



Peace River Area Monitoring Program

AUGUST 2024

Monthly Ambient Air Quality Monitoring Report

PRAMP-202408

Operation and Maintenance:

Bureau Veritas Canada

Data Validation and Report:

Peace River Area Monitoring Program

September 24, 2024

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LIST OF ACRONYMS

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



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September 24, 2024

RE: PRAMP – August 2024 Monthly Ambient Air Quality Monitoring Report

Enclosed is the August 2024 Monthly Ambient Air Quality Monitoring Report for the continuous ambient air quality monitoring stations of the Peace River Area Monitoring Program (PRAMP) regional air quality monitoring network.

The representative of the Person Responsible for this monitoring program is

PRAMP Airshed
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This report has been prepared, review 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.

PRAMP Airshed has retained the services of Bureau Veritas Canada to conduct continuous ambient monitoring on its behalf.

NETWORK STATION SUMMARY

Listing of Continuous Monitoring Stations

The PRAMP continuous ambient air quality monitoring network stations are:

- 986-C Station
- 842-B Station
- Reno-B Station
- AQHI Grimshaw
- Peace River Complex (PRC) Station

Station ID	Station Name	Latitude	Longitude
1562	986-C	56.36980	-116.92500
1561	842-B	56.27406	-116.98129
1563	Reno-B	55.890868	-117.137080
1689	AQHI-Grimshaw	56.18657	-117.604994
1698	PRC	56.38257	-116.769283

Listing of Intermittent Monitoring Stations

- VOC Canister Sampling Station
 - 986-C Station
 - 842-B Station
 - Reno-B Station

Listing of PRAMP member with EPEA Facility Operating Approval

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

Calibration and Data Submission

Hourly data and calibration reports for August 2024 were submitted to the ETS data system for the 986-C station, 842-B station, Reno-B station, PRC station and AQHI-Grimshaw station.

Monitoring Operations Notes during the Month of August 2024

986-C Station

- **Precipitation:** The precipitation gauge was found blocked by debris (mostly avian droppings) on August 22. The issue was corrected, and temporary bird wires were modified on August 22. Factory-built bird wires will be installed once the parts become available to prevent the issue from reoccurring. After reviewing and comparing data with those collected at the 842-B station and Reno-B station, it was determined that the issue had a moderate impact on data collection. However, the decision was made to keep data for two reasons: 1) there were no significant rainfall events recorded between July and August, and 2) the equipment was installed at the request of local farmers for agricultural purposes and the monitoring data are not submitted to the Alberta ETS data warehouse for compliance purposes. However, as errors have been identified, data collection between the last system verification on August 7 and August 22 should be used with caution.

842-B Station

- **TRS:** The CD Nova CDN-101 TRS convertor, s/n: 583, failed following a brief power outage on August 1 hour 20. It was replaced by the CDN-101, s/n: 552, on August 3. A successful installation calibration was completed afterwards. Thirty-seven hours of downtime were recorded due to this event.

Reno-B Station

- No operational issues were identified this month.

PRC Station

- No operational issues were identified this month.

AQHI – Grimshaw Station

- **TRS:** Following a successful shut-down calibration on August 20, the Teledyne T100U analyzer, s/n: 132, was successfully shut-down and replaced by the Thermo 43iQTL analyzer, s/n: 12409233394. The new analyzer was allowed to stabilize overnight. An installation calibration was completed on August 21. Twenty-four hours of downtime were recorded due to this event.
- **O3:** Following a successful shut-down calibration on August 20, the Teledyne T400 analyzer, s/n: 824, was successfully shut-down and replaced by the Thermo 49iQ analyzer, s/n: 12326230141. The new analyzer was allowed to stabilize overnight. An installation calibration was completed on August 21. Twenty-three hours of downtime were recorded due to this event.
- **NOx/NO/NO2:** BV's Thermo 42i analyzer, s/n: 1173100003, failed the August 20's shut-down calibration on August 20. In the absence of a clear point of failure, data were invalidated back to the last valid multi-point calibration, which was July 16. The analyzer was replaced by a new Thermo 42iQ analyzer, s/n: 12409233392, on August 20. A successful installation calibration was completed on August 21. Four hundred ninety-one hours of downtime were recorded in August due to this event. **DINCO011199.**

Exceedances of the AAAQOs and AAAQGs during the Month of August 2024

- The following exceedances of Alberta Ambient Air Quality Objectives (AAAQOs) and Alberta Ambient Air Quality Guidelines (AAAQGs) were recorded at the AQHI- Grimshaw station. Twenty-eight hours of 1-hour and three of 24-hour PM_{2.5} exceedances were recorded in August. The exceedances of the PM_{2.5} objective and guideline were attributed to wildfire smoke.

Date	Time (MST)	Parameter	Average Period	Concentration (µg/m ³)	Wind speed (km/hr)	Wind Direction	Reference #
Aug 13	16	PM _{2.5}	1-Hour	179	15.7	278°(W)	N/A
Aug 13	17	PM _{2.5}	1-Hour	254	16.2	279°(W)	N/A
Aug 13	18	PM _{2.5}	1-Hour	400	12.1	313°(NW)	N/A
Aug 13	19	PM _{2.5}	1-Hour	817	11.5	353°(N)	N/A
Aug 13	20	PM _{2.5}	1-Hour	704	8.3	341°(NNW)	N/A
Aug 13	21	PM _{2.5}	1-Hour	532	8.9	334°(NNW)	N/A
Aug 13	22	PM _{2.5}	1-Hour	444	6.8	328°(NNW)	N/A
Aug 13	23	PM _{2.5}	1-Hour	451	5.9	340°(NNW)	N/A
Aug 13	-	PM _{2.5}	24-Hour	179	5.7	287°(WNW)	432828
Aug 14	0	PM _{2.5}	1-Hour	405	7.2	342°(NNW)	N/A
Aug 14	1	PM _{2.5}	1-Hour	364	7.6	344°(NNW)	N/A
Aug 14	2	PM _{2.5}	1-Hour	316	7.7	340°(NNW)	N/A
Aug 14	3	PM _{2.5}	1-Hour	265	6.8	342°(NNW)	N/A
Aug 14	4	PM _{2.5}	1-Hour	232	5.1	342°(NNW)	N/A
Aug 14	5	PM _{2.5}	1-Hour	162	5.5	351°(N)	N/A
Aug 14	6	PM _{2.5}	1-Hour	149	5.7	345°(NNW)	N/A
Aug 14	7	PM _{2.5}	1-Hour	130	6.2	342°(NNW)	N/A
Aug 14	8	PM _{2.5}	1-Hour	121	3.8	358°(N)	N/A
Aug 14	9	PM _{2.5}	1-Hour	112	3.9	353°(N)	N/A
Aug 14	10	PM _{2.5}	1-Hour	100	2.1	309°(NW)	N/A
Aug 14	11	PM _{2.5}	1-Hour	90	3.7	265°(W)	N/A
Aug 14	12	PM _{2.5}	1-Hour	89	3.0	231°(SW)	N/A
Aug 14	13	PM _{2.5}	1-Hour	95	5.0	141°(SE)	N/A
Aug 14	14	PM _{2.5}	1-Hour	97	4.9	89°(E)	N/A
Aug 14	15	PM _{2.5}	1-Hour	92	6.3	92°(E)	N/A
Aug 14	16	PM _{2.5}	1-Hour	86	8.4	86°(E)	N/A
Aug 14	17	PM _{2.5}	1-Hour	83	7.9	83°(E)	N/A
Aug 14	-	PM _{2.5}	24-Hour	139	5.7	13°(NNE)	432828
Aug 15	-	PM _{2.5}	24-Hour	32	8.6	32°(NNE)	432828
Aug 21	6	PM _{2.5}	1-Hour	103	9.0	19°(NNE)	N/A
Aug 21	7	PM _{2.5}	1-Hour	129	12.6	14°(NNE)	N/A

Note: As the bulk reporting protocol is in effect, all measured exceedances of the 1-hour PM2.5 AAAQG were not required to be reported to Alberta EDGE and one reference number for all 24-hour exceedances collected in a month is assigned.

- The following exceedances of Alberta Ambient Air Quality Objectives (AAAQOs) were recorded by the VOC canister sampling program.

	Date	Acrolein	Benzene	DINC #
AAAQOs (ppb)		1.9	9.0	
Reno-B	2024-08-13	3.7		0011197
986-C	2024-08-14	2.4	9.45	0011198

Non-compliance Events during the Month of August 2024

- Grimshaw Station: The NOx/NO/NO2 analyzer did not meet the 90% operational uptime requirement in July and August; the uptime was 42.3% and 34.0%, respectively. BV's Thermo 42i analyzer, s/n: 1173100003, failed August 20's shut-down calibration. In the absence of a clear point of failure, data were invalidated back to the last valid multi-point calibration, which was July 16. The analyzer was replaced by a new Thermo 42iQ analyzer, s/n: 12409233392, on August 20. A successful installation calibration was completed on August 21. Three hundred sixty-nine hours and four hundred sixty-six hours of downtime were recorded in July and August. **DINC0011199.**

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 986-C, 842-B, and the Reno-B 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.
- Two canister event was recorded this month.

Station	Date	Time of Concentration Reached Trigger Point	NMHC 5-minute Concentration (ppm)	Time of Canister Triggered
Reno-B	13-Aug	19:45	0.32	19:50
986-C	14-Aug	00:35	0.32	00:40

Revisions to Alberta's Ambient Air Quality Data Warehouse

Grimshaw Station: The Thermo 42i NOx/NO/NO2 analyzer, s/n: 1173100003, failed August 20's shut-down calibration. In the absence of a clear point of failure, data were invalidated back to the last valid multi-point calibration, which was July 16. Data collected between July 16 hour 15 and July 30 hour 23 were revised and resubmitted to ETS on September 24. **ETS Request # 4721114.**

Deviations from Authorized Monitoring Methods

No deviations from authorized monitoring methods were recorded this month.

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

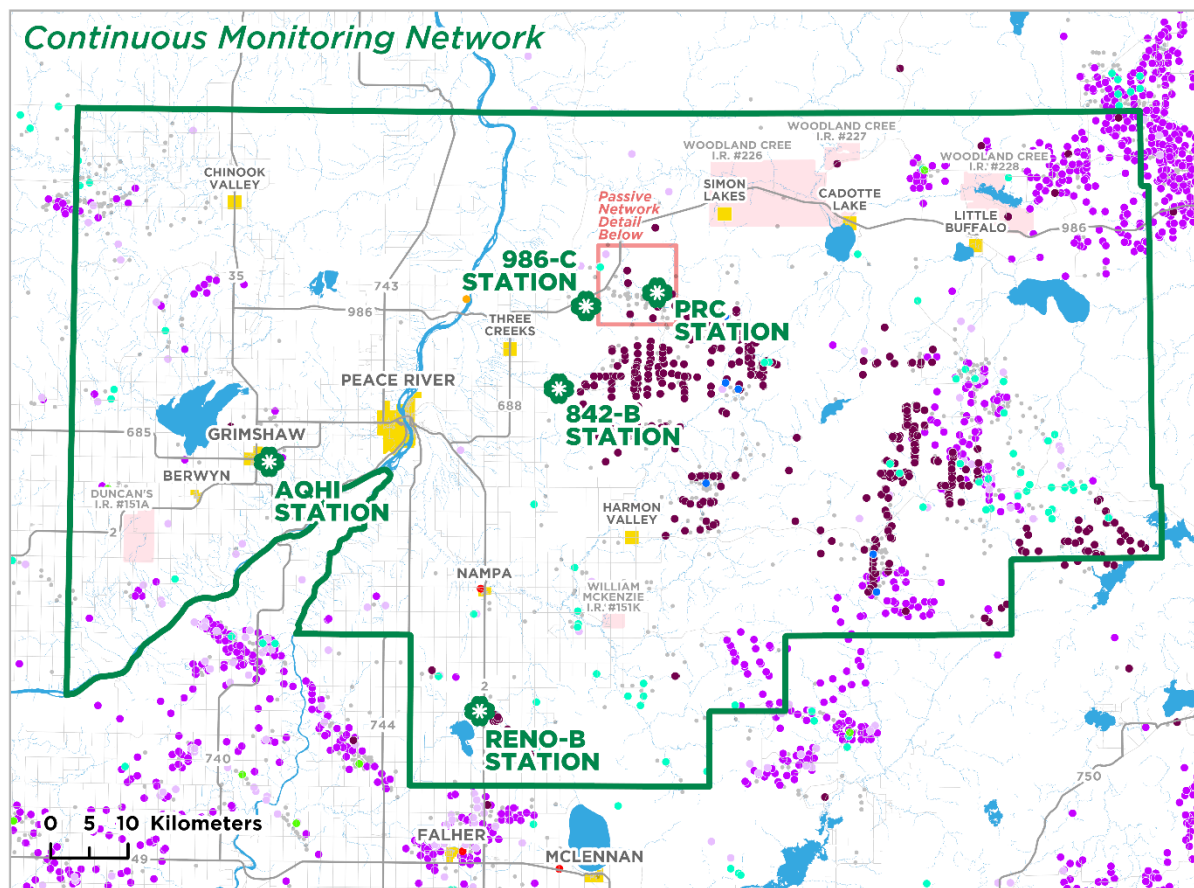
This report was reviewed by Michael Bisaga in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

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 ETS data system 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

Map of PRAMP Continuous Monitoring Network



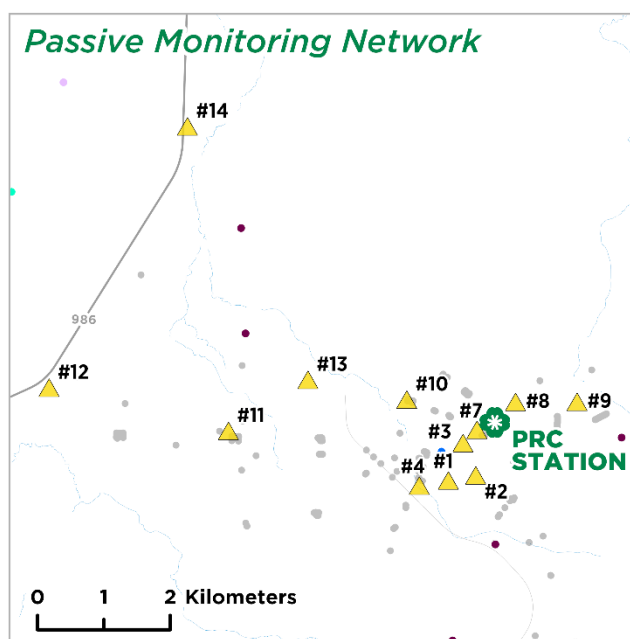
Legend

-  PRAMP Boundary
-  Populated Place
-  First Nation
-  Continuous Monitoring Station
-  Passive Monitoring Station

Industrial Facilities

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

Service Layer Credit: Esri, CGIAR, USGS, Esri, USGS



CONTINUOUS NETWORK EQUIPMENT AND MONITORING RESULTS SUMMARY

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Thermo 43iQTL #1193585646	August 7, 2024	The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 17. Hourly data completeness requirement was not affected.
TRS Thermo 43iQTL #1191833341 TRS convertor CD Nova CDN-101 #530 (BV-supplied)	August 7, 2024	The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 17. Hourly data completeness requirement was not affected.
THC/CH4/NMHC Thermo 55i #1022143392 H2 Generator HG300 #191267063 Zero Air Supply Teledyne T701 #468	August 7, 2024	- The August 22's daily zero-span check failed due to polling error during the zero-check phase on August 14. The zero-span check results passed the check requirements on August 15. No further issues were identified. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 17. Hourly data completeness requirement was not affected.
Parameter	Verification Date	Equipment Operational Summary
RH Rotronic HC2-S3 #20626912	August 7, 2024	The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 17. Hourly data completeness requirement was not affected.
BP MetOne 092 #Y23358	August 7, 2024	- The BP sensor malfunctioned on August 4 hour 18. The sensor was reset to correct the issue on August 7 hour 9. Sixty-four hours of downtime were recorded. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 17. Hourly data completeness requirement was not affected.

Parameter	Verification Date	Equipment Operational Summary
AT Rotronic HC2-S3 #20626912	August 7, 2024	The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 17. Hourly data completeness requirement was not affected.
ST COMET #18961918	August 7, 2024	The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 17. Hourly data completeness requirement was not affected.
Precipitation RM Young 52202 #TB 16325	August 7, 2024	- The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 17. Hourly data completeness requirement was not affected. - The precipitation gauge was found blocked by debris (mostly avian droppings) on August 22. The issue was corrected, and temporary bird wires were modified on August 22. Factory-built bird wires will be installed once the parts become available to prevent the issue from reoccurring. After reviewing and comparing data with those collected at the 842-B station and Reno-B station, it was determined that the issue had a moderate impact on data collection. However, the decision was made to keep data for two reasons: 1) there were no significant rainfall events recorded between July and August, and 2) the equipment was installed at the request of local farmers for agricultural purposes and the monitoring data are not submitted to the Alberta ETS data warehouse for compliance purposes. However, as errors have been identified, data collection between the last system verification on August 7 and August 22 should be used with caution.
WS/ WD RM Young 05305AQ #180340	August 22, 2024	- Wind direction data contained in this report represents where the wind is coming from. - An annual wind system calibration was completed on August 22, 2024. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 17. Hourly data completeness requirement was not affected.

Monitored Data Summary for 986-C 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	Aug 1 at hr 14	9.8	WSW	0.3	Aug 30	100.0	95.0
TRS (ppb)	-	-	-	-	-	-	0.5	0.01	2.63	Aug 14 at hr 1	8.8	NW	1.22	Aug 14	100.0	95.0
THC (ppm)	-	-	-	-	-	-	2.00	1.91	2.59	Aug 14 at hr 0	6.4	NW	2.15	Aug 14	100.0	95.0
CH4 (ppm)	-	-	-	-	-	-	2.00	1.91	2.39	Aug 14 at hr 1	8.8	NW	2.13	Aug 14	100.0	95.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.20	Aug 14 at hr 0	6.4	NW	0.02	Aug 14	100.0	95.0
RH (%)	-	-	-	-	-	-	77.0	29	100	Aug 1 at hr 1	7.3	SSE	99.5	Aug 5	100.0	100.0
BP (millibar)	-	-	-	-	-	-	943	932	953	Aug 7 at hr 10	4.1	S	952	Aug 8	91.4	91.4
Ext. Temp. (°C)	-	-	-	-	-	-	15.9	4.5	27.8	Aug 11 at hr 15	9.5	SSW	20.5	Aug 11	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	23.8	22.8	24.8	Aug 11 at hr 0	10.2	SE	24.1	Aug 27	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	16.6	0.0	2.8	Aug 24 at hr 14	15.1	NNW	12.8	Aug 24	99.9	99.9
WSV (km/hr)	-	-	-	-	-	-	2.3	0.2	21.9	Aug 24 at hr 7	21.9	ENE	15.7	Aug 20	100.0	99.7
WDV (sector)	-	-	-	-	-	-	167 (SSE)	-	-	-	-	-	-	-	100.0	99.7

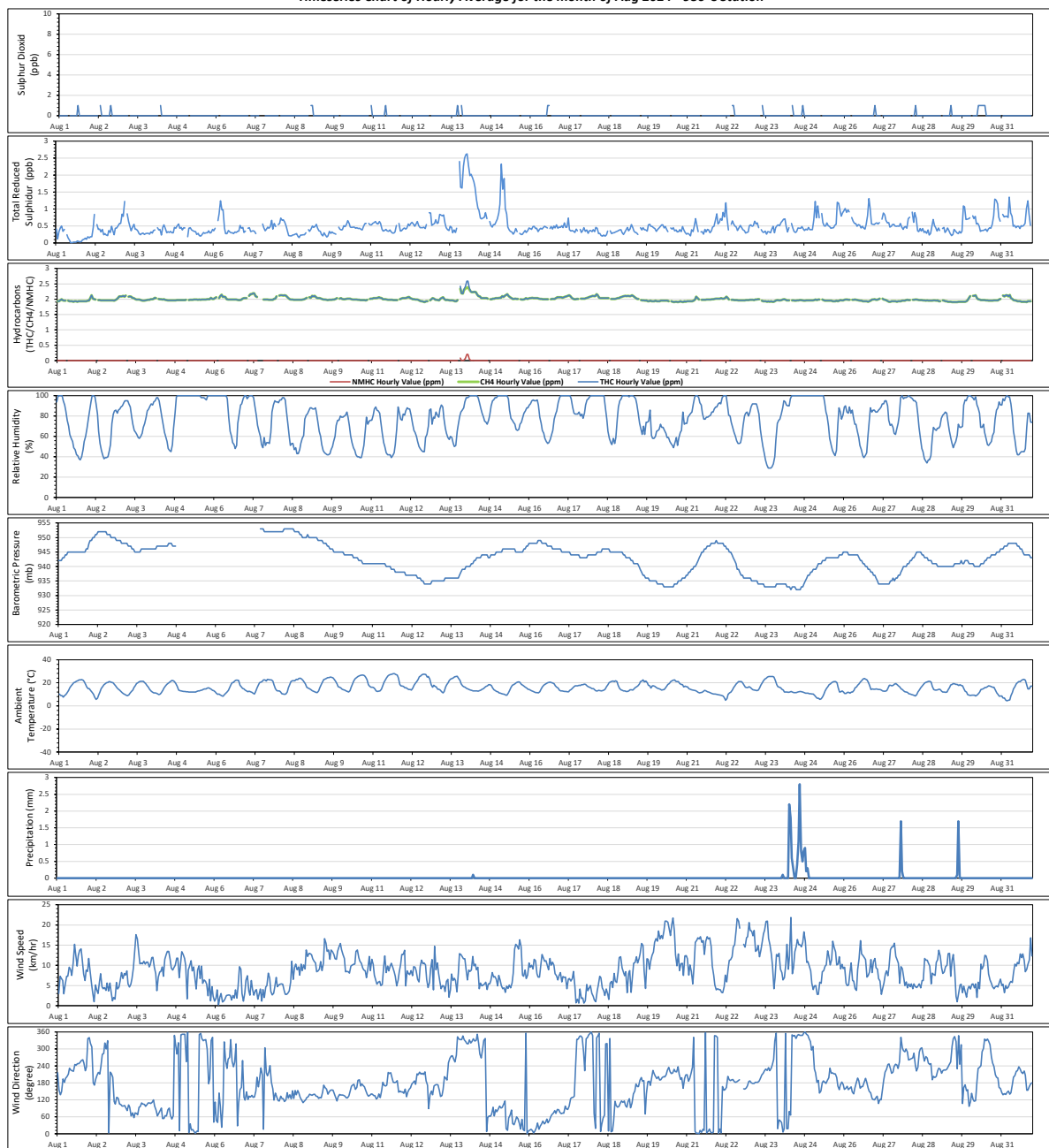
1- Date/ Time given is the first minimum and maximum value that was recorded

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

Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances

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

Timeseries Chart of Hourly Average for the month of Aug 2024 - 986-C Station



842-B Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Thermo 43iQTL #1200736629	August 3, 2024	- Two hours of downtime were recorded due to a power failure event on August 1. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 12. One hour of downtime was recorded.
TRS Thermo 43iQTL #1200736630 TRS Convertor CD Nova CDN-101 #583 #552	August 3, 2024	- The CD Nova CDN-101 TRS convertor, s/n: 583, failed following a brief power outage on August 1 hour 20. It was replaced by the CDN-101, s/n: 552, on August 3. A successful installation calibration was completed afterwards. Thirty-seven hours of downtime were recorded due to this event. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 12. One hour of downtime was recorded.
THC/CH4/NMHC Thermo 55i #1501663728 H2 Generator HG300 #190567058 Zero Air Supply Teledyne T701 #1087	August 27, 2024	- Five hours of downtime were recorded due to power failures and analyzer recovery from the power failures on August 1 and 2. - A successful monthly calibration was completed on August 3. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 12. Hourly data collected on August 22 hour 13 was invalidated as the analyzer was unstable for a while after the datalogger maintenance. Two hours of downtime were recorded due to this event. - The analyzer showed NMHC daily span drift on August 23. The H2 desiccant was replaced, and a repeat multi-point calibration was completed to correct the drift on August 27. Seven hours of downtime were recorded due to this event.

Parameter	Verification Date	Equipment Operational Summary
RH Rotronic HC2-S3 #20370767	August 3, 2024	- Two hours of downtime were recorded due to a power failure event on August 1. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 12. One hour of downtime was recorded.
AT Rotronic HC2-S3 #20370767	August 3, 2024	- Two hours of downtime were recorded due to a power failure event on August 1. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 12. One hour of downtime was recorded.
BP MetOne 092 #Y23362	August 3, 2024	- Two hours of downtime were recorded due to a power failure event on August 1. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 12. One hour of downtime was recorded.
ST COMET #20790297	August 3, 2024	- Two hours of downtime were recorded due to a power failure event on August 1. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 12. One hour of downtime was recorded.
Precipitation RM Young 52202 #TB 15878	August 3, 2024	- Two hours of downtime were recorded due to a power failure event on August 1. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 12. One hour of downtime was recorded.
WS/ WD RM Young 05305AQ #174802	August 22, 2024	- Wind direction data contained in this report represents where the wind is coming from. - The annual wind system calibration was completed on August 22, 2024. - Two hours of downtime were recorded due to a power failure event on August 1. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 12. One hour of downtime was recorded.

Monitored Data Summary for 842-B 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	Aug 1 at hr 0	2.5	SE	0.0	Aug 1	99.6	94.1
TRS (ppb)	-	-	-	-	-	-	0.80	0.31	3.47	Aug 13 at hr 19	13	NW	1.71	Aug 14	94.9	89.6
THC (ppm)	-	-	-	-	-	-	1.97	1.85	2.41	Aug 13 at hr 19	13	NW	2.10	Aug 14	98.1	93.0
CH4 (ppm)	-	-	-	-	-	-	1.97	1.85	2.41	Aug 13 at hr 19	13	NW	2.10	Aug 14	98.1	93.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	Aug 1 at hr 0	2.5	SE	0.00	Aug 1	98.1	93.0
RH (%)	-	-	-	-	-	-	77.8	33	100	Aug 4 at hr 19	11.3	NW	99.1	Aug 5	99.6	99.6
BP (millibar)	-	-	-	-	-	-	942	931	952	Aug 7 at hr 5	0.9	E	951	Aug 7	99.6	99.6
Ext. Temp. (°C)	-	-	-	-	-	-	16.9	5.8	28.5	Aug 11 at hr 15	9.3	S	22.0	Aug 11	99.6	99.6
Stn. Temp. (°C)	-	-	-	-	-	-	22.8	21.5	24.1	Aug 28 at hr 9	6.2	W	23.3	Aug 5	99.6	99.6
Precipitation (mm)*	-	-	-	-	-	-	89.5	0.0	13.1	Aug 4 at hr 18	15.4	W	30.0	Aug 4	99.6	99.6
WSV (km/hr)	-	-	-	-	-	-	1.8	0.1	21.5	Aug 20 at hr 13	21.5	SSW	13.7	Aug 20	99.6	99.3
WDV (sector)	-	-	-	-	-	-	186 (S)	-	-	-	-	-	-	-	99.6	99.3

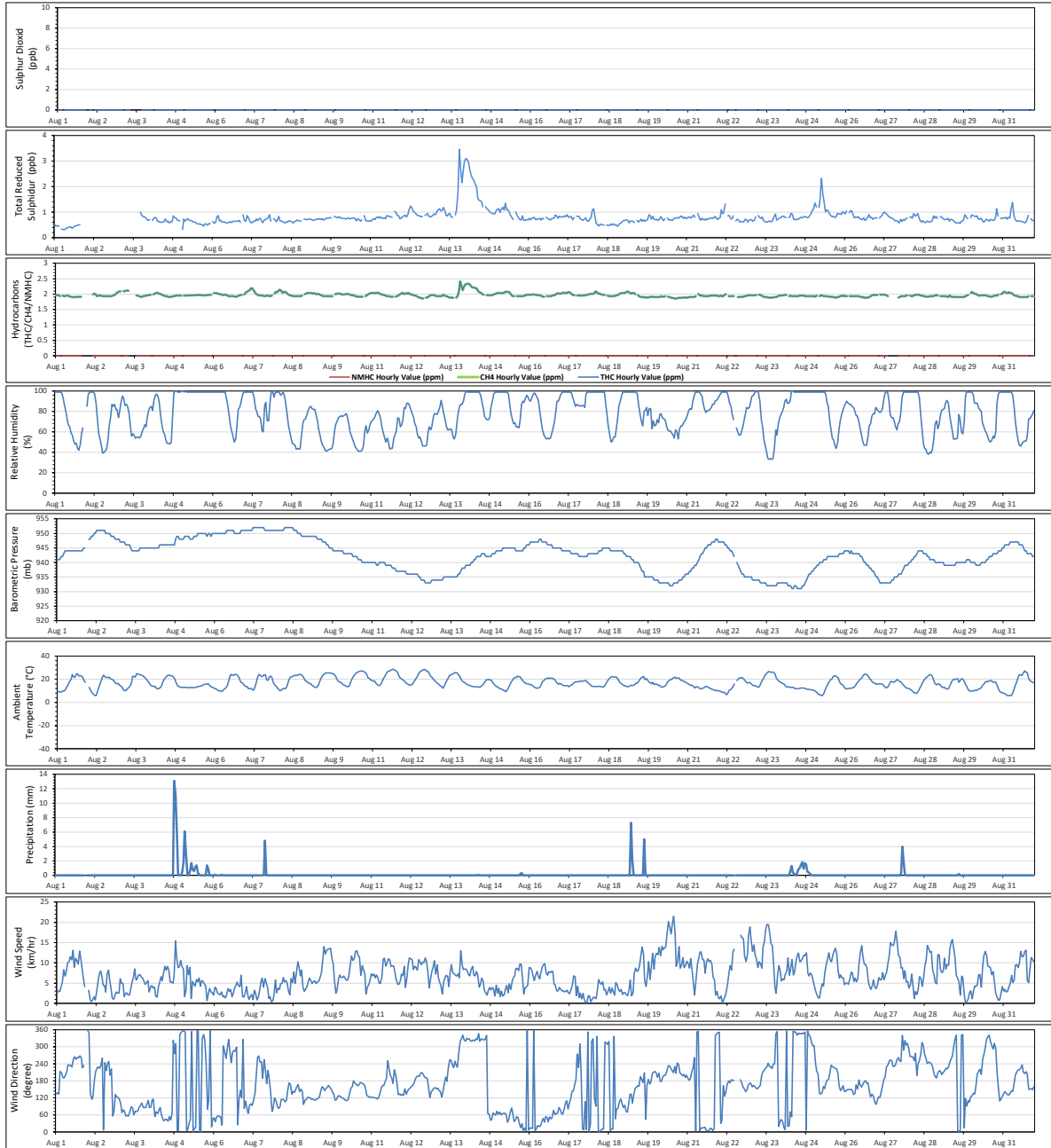
1- Date/ Time given is the first minimum and maximum value that was recorded

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

Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances

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

Timeseries Chart of Hourly Average for the month of Aug 2024 - 842-B Station



Reno-B Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Thermo 43iQTL #12101910505	August 22, 2024	- Two hours of downtime were recorded due to a power failure event on August 20. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 10. Hourly data completeness requirement was not affected.
TRS Thermo 43iQTL #12101910504 TRS Convertor CD Nova CDN-101 #590	August 22, 2024	- Two hours of downtime were recorded due to a power failure event on August 20. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 10. Hourly data completeness requirement was not affected.
THC/CH4/NMHC Thermo 55i #1193585652 H2 Generator HG300 #210467069	August 22, 2024	- Both the N2 and span gas cylinders were replaced on August 8. A repeat zero-span check was completed afterwards to obtain new expected span values. Two hours of downtime were recorded. - Three hours of downtime were recorded due to a power failure event and analyzer recovery from the power failure on August 20. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 10. Hourly data completeness requirement was not affected.
Parameter	Verification Date	Equipment Operational Summary
RH Rotronic HC2-S3 #20467597	August 22, 2024	- Two hours of downtime were recorded due to a power failure event on August 20. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 10. Hourly data completeness requirement was not affected.

Parameter	Verification Date	Equipment Operational Summary
BP MetOne 092 #A17940	August 22, 2024	- Two hours of downtime were recorded due to a power failure event on August 20. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 10. Hourly data completeness requirement was not affected.
AT Rotronic HC2-S3 #20467597	August 22, 2024	- Two hours of downtime were recorded due to a power failure event on August 20. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 10. Hourly data completeness requirement was not affected.
ST COMET #NA	August 22, 2024	- Two hours of downtime were recorded due to a power failure event on August 20. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 10. Hourly data completeness requirement was not affected.
Precipitation RM Young 52202 #TB 15877	August 22, 2024	- Two hours of downtime were recorded due to a power failure event on August 20. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 10. Hourly data completeness requirement was not affected.
WS/ WD RM Young 05305AQ #174795	August 23, 2024	- Wind direction data contained in this report represents where the wind is coming from. - The annual wind system calibration was completed on August 23, 2024. - Two hours of downtime were recorded due to a power failure event on August 20. - The channel was temporary put offline during the datalogger memory upgrade on August 22 hour 10. Hourly data completeness requirement was not affected.

Monitored Data Summary for Reno-B 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	Aug 1 at hr 8	11.3	SW	0.2	Aug 16	99.7	94.6
TRS (ppb)	-	-	-	-	-	-	0.58	0.28	2.63	Aug 14 at hr 2	3.9	NNW	1.57	Aug 14	99.7	94.6
THC (ppm)	-	-	-	-	-	-	2.00	1.88	2.92	Aug 14 at hr 2	3.9	NNW	2.36	Aug 14	99.3	94.3
CH4 (ppm)	-	-	-	-	-	-	1.99	1.88	2.38	Aug 14 at hr 2	3.9	NNW	2.18	Aug 14	99.3	94.3
NMHC (ppm)	-	-	-	-	-	-	0.01	0.00	0.54	Aug 14 at hr 2	3.9	NNW	0.18	Aug 14	99.3	94.3
RH (%)	-	-	-	-	-	-	73.2	28	100	Aug 2 at hr 4	0.9	S	98.8	Aug 5	99.7	99.7
BP (millibar)	-	-	-	-	-	-	942	930	951	Aug 2 at hr 7	1.3	W	951	Aug 7	99.7	99.7
Ext. Temp. (°C)	-	-	-	-	-	-	16.4	5.5	28.0	Aug 12 at hr 15	10.8	S	21.0	Aug 11	99.7	99.7
Stn. Temp. (°C)	-	-	-	-	-	-	22.6	21.3	23.5	Aug 6 at hr 7	1.6	NNE	23.1	Aug 5	99.7	99.7
Precipitation (mm)*	-	-	-	-	-	-	28.3	0.0	4.3	Aug 4 at hr 19	16.6	N	11.7	Aug 24	99.7	99.7
WSV (km/hr)	-	-	-	-	-	-	2.1	0.0	35.0	Aug 29 at hr 10	35	WNW	16.5	Aug 20	99.7	99.5
WDV (sector)	-	-	-	-	-	-	181 (S)	-	-	-	-	-	-	-	99.7	99.5

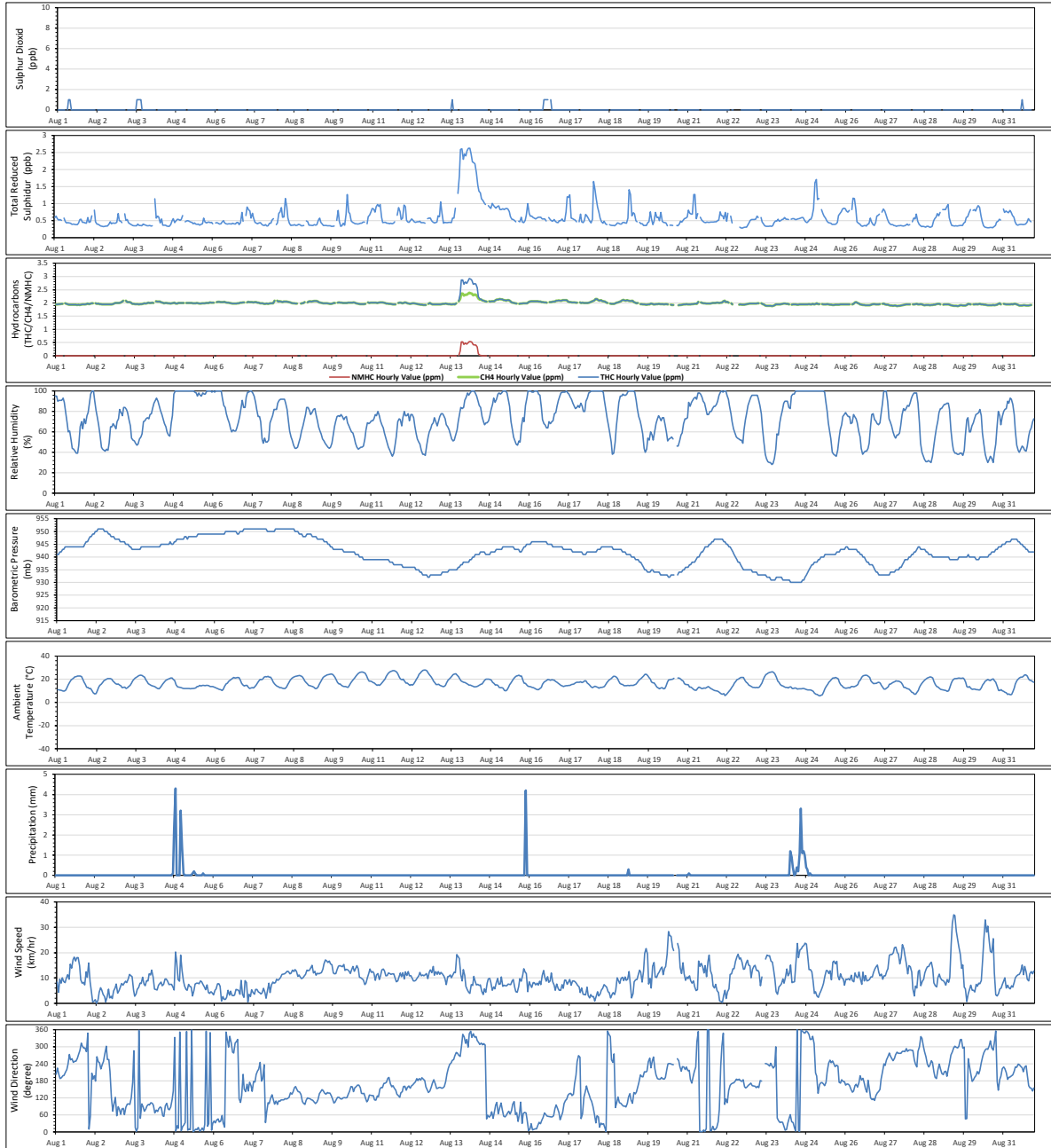
1- Date/ Time given is the first minimum and maximum value that was recorded

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

Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances

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

Timeseries Chart of Hourly Average for the month of Aug 2024 - Reno-B Station



PRC Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Thermo 43i #1034746225	August 8, 2024	No operational issues were recorded this month.
H2S Thermo 450i #1308857354	August 8, 2024	No operational issues were recorded this month.
TRS Thermo 450i #1034746224 TRS Convertor CD Nova CDN-101 #516	August 8, 2024	No operational issues were recorded this month.
THC/CH4/NMHC Thermo 55i #1034745845 H2 Generator HG300 #211067076	August 8, 2024	No operational issues were recorded this month.
Parameter	Verification Date	Equipment Operational Summary
RH Rotronic HC2-S3 #20558318	August 8, 2024	No operational issues were recorded this month.
BP MetOne 092 #B19577	August 8, 2024	No operational issues were recorded this month.
AT Rotronic HC2-S3 #20558318	August 8, 2024	No operational issues were recorded this month.

Parameter	Verification Date	Equipment Operational Summary
ST Canadian Natural #NA	August 8, 2024	No operational issues were recorded this month.
WS/ WD RM Young 05305VK #129612	August 8, 2024	- Wind direction data contained in this report represents where the wind is coming from. - The annual wind system calibration was completed on August 3, 2023. - No operational issues were recorded this month.

Monitored Data Summary for Peace River Complex (PRC) Station

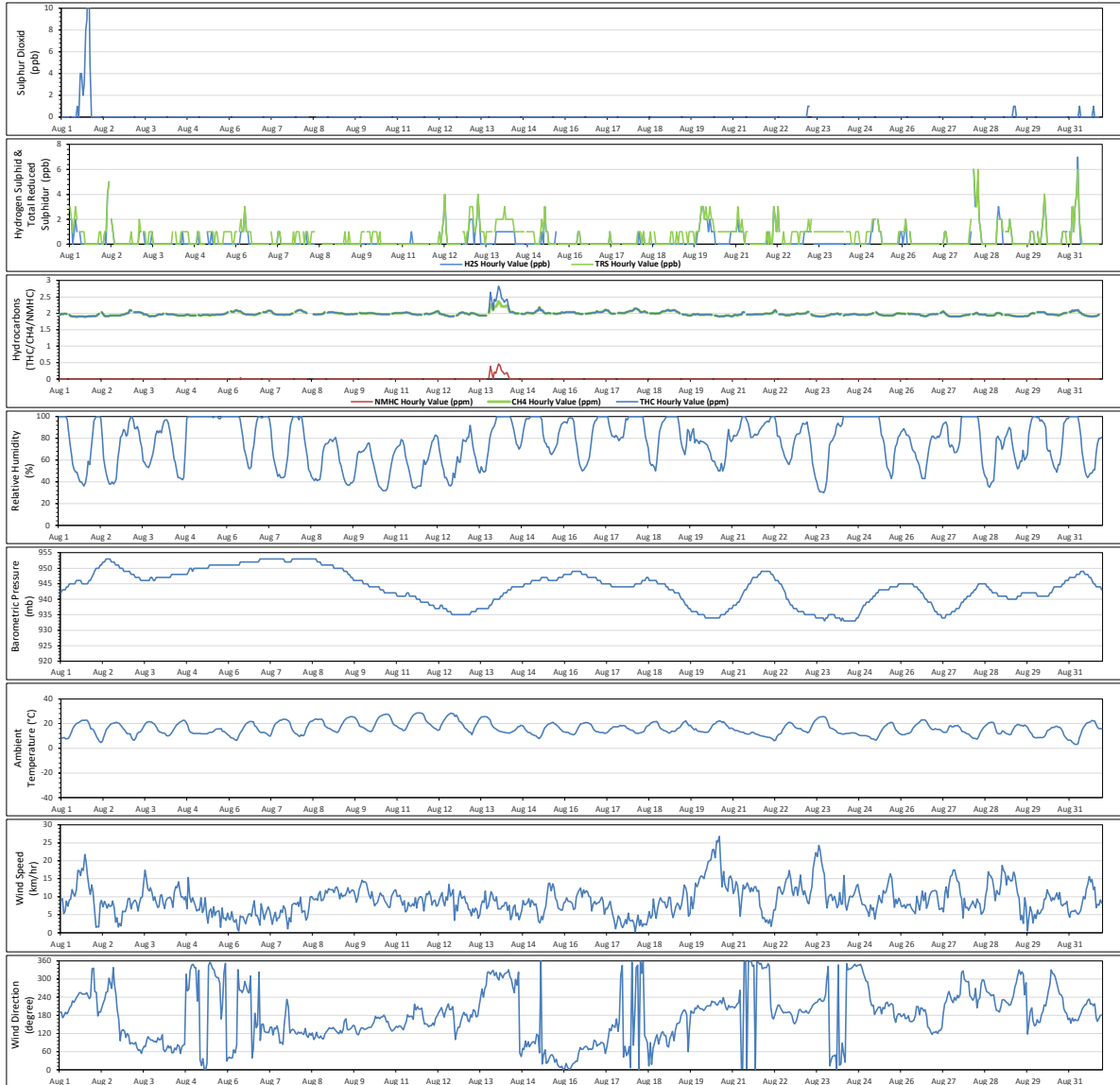
Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.1	0	17	Aug 1 at hr 19	15.7	WSW	2.3	Aug 1	100.0	94.9
H2S (ppb)	10	3	-	0	0	-	0.3	0	7	Aug 31 at hr 6	5.1	SSE	1.0	Aug 2	100.0	94.9
TRS (ppb)	-	-	-	-	-	-	0.6	0	6	Aug 28 at hr 3	8.8	SW	1.7	Aug 13	100.0	94.9
THC (ppm)	-	-	-	-	-	-	1.99	1.89	2.83	Aug 14 at hr 1	6.6	WNW	2.20	Aug 14	100.0	95.0
CH4 (ppm)	-	-	-	-	-	-	1.99	1.89	2.37	Aug 14 at hr 1	6.6	WNW	2.10	Aug 14	100.0	95.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.46	Aug 14 at hr 1	6.6	WNW	0.10	Aug 14	100.0	95.0
RH (%)	-	-	-	-	-	-	76.0	30	100	Aug 1 at hr 0	8.9	S	99.8	Aug 5	100.0	100.0
BP (millibar)	-	-	-	-	-	-	944	933	953	Aug 2 at hr 8	8	SW	953	Aug 7	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	16.0	3.2	28.7	Aug 11 at hr 15	9.2	SSW	22.1	Aug 11	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.9	21.5	25.9	Aug 30 at hr 13	9.2	NW	23.7	Aug 24	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	2.9	0.2	26.8	Aug 20 at hr 14	26.8	SW	18.1	Aug 20	100.0	100.0
WDV (sector)	-	-	-	-	-	-	183 (S)	-	-	-	-	-	-	-	100.0	100.0

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

Alberta Ambient Air Quality Objectives (AAQOs) and/or Alberta Ambient Air Quality Guidelines (AAQGs) Exceedances

The measured ambient air quality was within the AAQOs and/or AAQGs for all monitored parameters.

Timeseries Chart of Hourly Average for the month of Aug 2024 - Peace River Complex (PRC) Station



Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Teledyne T100 #722	August 21, 2024	The channel was put offline during the datalogger memory upgrade on August 20 hour 10. One hour of downtime was recorded.
TRS Teledyne T100U #132 Thermo 43iQ-TL #12409233394 TRS Convertor CD Nova CDN-101 #576	August 21, 2024	- Hourly data collected on August 5 between hour 10 and hour 19 were lost due to an analyzer error. The analyzer was reset remotely to correct the issue. Ten hours of downtime were recorded as a result. - The channel was put offline during the datalogger memory upgrade on August 20 hour 10. One hour of downtime was recorded. - Following a successful shut-down calibration on August 20, the Teledyne T100U analyzer, s/n: 132, was successfully shut-down and replaced by the Thermo 43iQTL analyzer, s/n: 12409233394. The new analyzer was allowed to stabilize overnight. An installation calibration was completed on August 21. Twenty-four hours of downtime were recorded due to this event.
O3 Teledyne T400 #824 Thermo 49iQ #12326230141	August 21, 2024	- The channel was put offline during the datalogger memory upgrade on August 20 hour 10. One hour of downtime was recorded. - Following a successful shut-down calibration on August 20, the Teledyne T400 analyzer, s/n: 824, was successfully shut-down and replaced by the Thermo 49iQ analyzer, s/n: 12326230141. The new analyzer was allowed to stabilize overnight. An installation calibration was completed on August 21. Twenty-three hours of downtime were recorded due to this event.

Parameter	Calibration Date	Equipment Operational Summary
NOx/NO/NO2 Thermo 42i #1173100003 Thermo 42iQ #12409233392	August 21, 2024	- The channel was put offline during the datalogger memory upgrade on August 20 hour 10. One hour of downtime was recorded. - BV's Thermo 42i analyzer, s/n: 1173100003, failed the August 20's shut-down calibration on August 20. In the absence of a clear point of failure, data were invalidated back to the last valid multi-point calibration, which was July 16. The analyzer was replaced by a new Thermo 42iQ analyzer, s/n: 12409233392, on August 20. A successful installation calibration was completed on August 21. Three hundred sixty-nine hours and four hundred ninety hours of downtime were recorded in July and August. - The analyzer was put offline on August 21 hour 17 to get GPT reference points for the ozone analyzer calibration. One hour of downtime was recorded.
THC/CH4/NMHC Thermo 55i #12101910497 H2 Generator HG300 #190567059	August 21, 2024	The channel was put offline during the datalogger memory upgrade on August 20 hour 10. One hour of downtime was recorded.
PM2.5 Teledyne T640 #318	August 23, 2024	The channel was put offline during the datalogger memory upgrade on August 20 hour 10. One hour of downtime was recorded.
Parameter	Verification Date	Equipment Operational Summary
RH Vaisala HMP155 #N2910506	August 21, 2024	The channel was put offline during the datalogger memory upgrade on August 20 hour 10. One hour of downtime was recorded.
BP MetOne 092 #A2397	August 21, 2024	The channel was put offline during the datalogger memory upgrade on August 20 hour 10. One hour of downtime was recorded.

Parameter	Verification Date	Equipment Operational Summary
AT Vaisala HMP155 #N2910506	August 21, 2024	The channel was put offline during the datalogger memory upgrade on August 20 hour 10. One hour of downtime was recorded.
ST COMET #NA	August 10, 2024	The channel was put offline during the datalogger memory upgrade on August 20 hour 10. One hour of downtime was recorded.
WS/ WD RM Young 05305AQ #174801	August 21, 2024	- Wind direction data contained in this report represents where the wind is coming from. - The annual wind system calibration was completed on August 21, 2024. - The channel was put offline during the datalogger memory upgrade on August 20 hour 10. One hour of downtime was recorded.

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	Aug 13 at hr 4	2.1	N	0.1	Aug 13	99.9	94.9
TRS (ppb)	-	-	-	-	-	-	0.24	0.00	5.03	Aug 19 at hr 5	5.5	E	0.70	Aug 13	95.3	90.2
NOx (ppb)	-	-	-	-	-	-	NA	0	14	Aug 31 at hr 6	1.1	NW	3.2	Aug 23	34.0	31.8
NO (ppb)	-	-	-	-	-	-	NA	0	5	Aug 25 at hr 2	3.8	WSW	1.0	Aug 23	34.0	31.8
NO2 (ppb)	159	-	-	0	-	-	NA	0	11	Aug 30 at hr 21	1.8	NNW	2.7	Aug 31	34.0	31.8
O3 (ppb)	76	-	-	0	-	-	25.1	2.3	56.0	Aug 10 at hr 15	11.5	SSE	41.2	Aug 10	96.8	91.5
THC (ppm)	-	-	-	-	-	-	1.98	1.87	3.31	Aug 13 at hr 19	11.5	N	2.25	Aug 13	99.9	94.7
CH4 (ppm)	-	-	-	-	-	-	1.97	1.87	2.55	Aug 13 at hr 19	11.5	N	2.09	Aug 14	99.9	94.7
NMHC (ppm)	-	-	-	-	-	-	0.01	0.00	0.76	Aug 13 at hr 19	11.5	N	0.19	Aug 13	99.9	94.7
PM2.5 (µg/m3)	80	29	-	28	3	-	21.5	1	817	Aug 13 at hr 19	11.5	N	179.0	Aug 13	99.9	99.7
RH (%)	-	-	-	-	-	-	67.6	25	100	Aug 6 at hr 6	0.8	S	93.9	Aug 5	99.9	99.9
BP (millibar)	-	-	-	-	-	-	944	933	953	Aug 2 at hr 7	8.2	W	953	Aug 7	99.9	99.9
Ext. Temp. (°C)	-	-	-	-	-	-	16.8	6.2	28.6	Aug 12 at hr 16	13	SSE	20.8	Aug 12	99.9	99.9
Stn. Temp. (°C)	-	-	-	-	-	-	21.3	19.0	27.6	Aug 30 at hr 17	5.4	NNW	22.6	Aug 30	99.9	99.9
WSV (km/hr)	-	-	-	-	-	-	7.7	0.1	21.9	Aug 20 at hr 11	21.9	SW	13.5	Aug 24	99.9	99.6
WVD (sector)	-	-	-	-	-	-	11 (NNE)	-	-	-	-	-	-	-	99.9	99.6

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

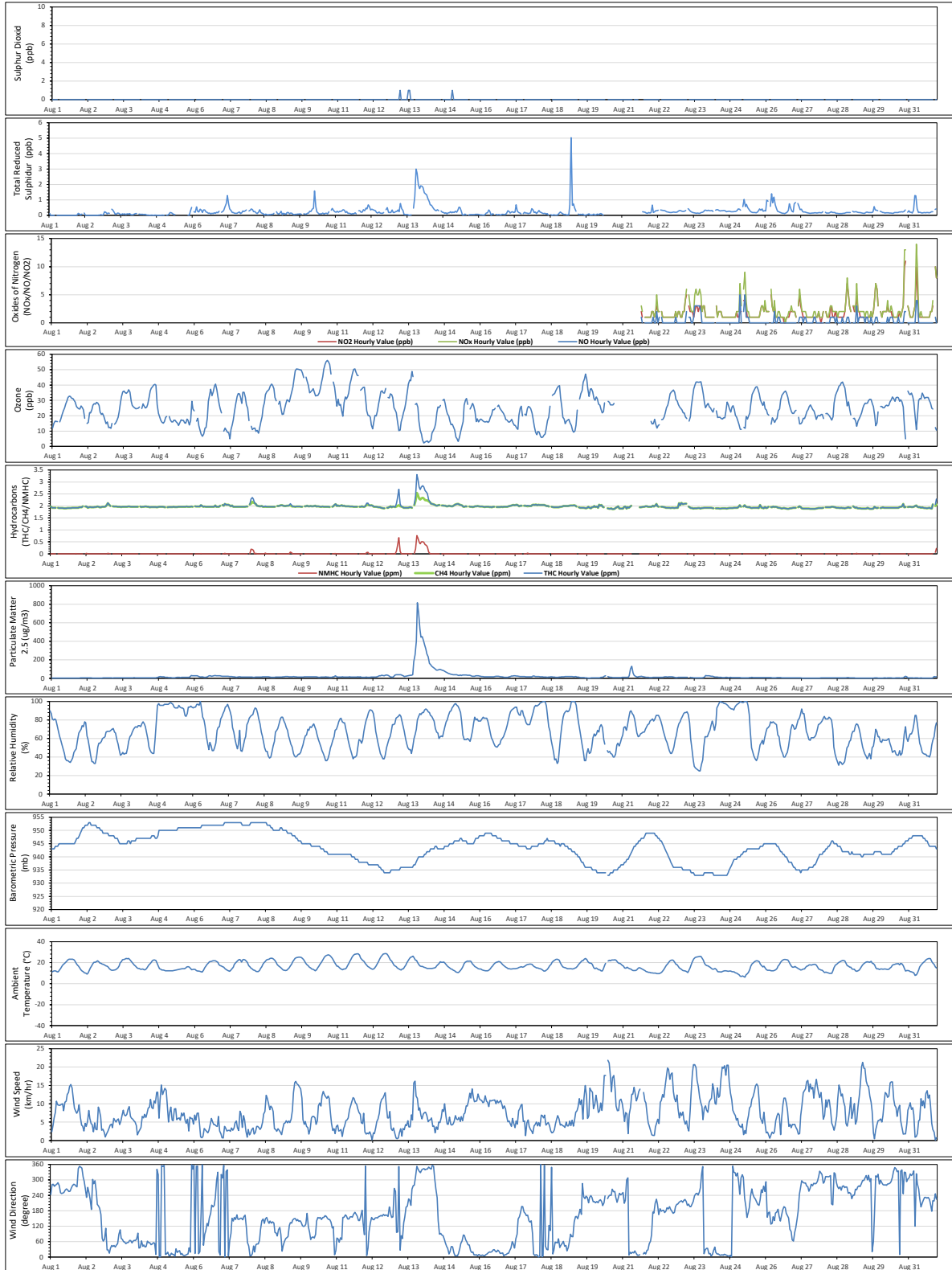
Alberta Ambient Air Quality Objectives (AAAQOs) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) Exceedances

The following exceedances of AAAQOs and AAAQGs were observed at the AQHI - Grimshaw Station.

Date	Time (MST)	Parameter	Average Period	AAAQOs / AAAQGs	Concentration	Wind speed	Wind Direction	Reference #
Aug 13	16	PM2.5	1-Hour	80 µg/m3	179 µg/m3	15.7 km/hr	278° (W)	N/A
Aug 13	17	PM2.5	1-Hour	80 µg/m3	254 µg/m3	16.2 km/hr	279° (W)	N/A
Aug 13	18	PM2.5	1-Hour	80 µg/m3	400 µg/m3	12.1 km/hr	313° (NW)	N/A
Aug 13	19	PM2.5	1-Hour	80 µg/m3	817 µg/m3	11.5 km/hr	353° (N)	N/A
Aug 13	20	PM2.5	1-Hour	80 µg/m3	704 µg/m3	8.3 km/hr	341° (NNW)	N/A
Aug 13	21	PM2.5	1-Hour	80 µg/m3	532 µg/m3	8.9 km/hr	334° (NNW)	N/A
Aug 13	22	PM2.5	1-Hour	80 µg/m3	444 µg/m3	6.8 km/hr	328° (NNW)	N/A
Aug 13	23	PM2.5	1-Hour	80 µg/m3	451 µg/m3	5.9 km/hr	340° (NNW)	N/A
Aug 13	-	PM2.5	24-Hour	29 µg/m3	179 µg/m3	5.7 km/hr	287° (WNW)	432828
Aug 14	0	PM2.5	1-Hour	80 µg/m3	405 µg/m3	7.2 km/hr	342° (NNW)	N/A
Aug 14	1	PM2.5	1-Hour	80 µg/m3	364 µg/m3	7.6 km/hr	344° (NNW)	N/A
Aug 14	2	PM2.5	1-Hour	80 µg/m3	316 µg/m3	7.7 km/hr	340° (NNW)	N/A
Aug 14	3	PM2.5	1-Hour	80 µg/m3	265 µg/m3	6.8 km/hr	342° (NNW)	N/A
Aug 14	4	PM2.5	1-Hour	80 µg/m3	232 µg/m3	5.1 km/hr	342° (NNW)	N/A
Aug 14	5	PM2.5	1-Hour	80 µg/m3	162 µg/m3	5.5 km/hr	351° (N)	N/A
Aug 14	6	PM2.5	1-Hour	80 µg/m3	149 µg/m3	5.7 km/hr	345° (NNW)	N/A
Aug 14	7	PM2.5	1-Hour	80 µg/m3	130 µg/m3	6.2 km/hr	342° (NNW)	N/A
Aug 14	8	PM2.5	1-Hour	80 µg/m3	121 µg/m3	3.8 km/hr	358° (N)	N/A
Aug 14	9	PM2.5	1-Hour	80 µg/m3	112 µg/m3	3.9 km/hr	353° (N)	N/A
Aug 14	10	PM2.5	1-Hour	80 µg/m3	100 µg/m3	2.1 km/hr	309° (NW)	N/A
Aug 14	11	PM2.5	1-Hour	80 µg/m3	90 µg/m3	3.7 km/hr	265° (W)	N/A
Aug 14	12	PM2.5	1-Hour	80 µg/m3	89 µg/m3	3.0 km/hr	231° (SW)	N/A
Aug 14	13	PM2.5	1-Hour	80 µg/m3	95 µg/m3	5.0 km/hr	141° (SE)	N/A
Aug 14	14	PM2.5	1-Hour	80 µg/m3	97 µg/m3	4.9 km/hr	89° (E)	N/A
Aug 14	15	PM2.5	1-Hour	80 µg/m3	92 µg/m3	6.3 km/hr	92° (E)	N/A
Aug 14	16	PM2.5	1-Hour	80 µg/m3	86 µg/m3	8.4 km/hr	86° (E)	N/A
Aug 14	17	PM2.5	1-Hour	80 µg/m3	83 µg/m3	7.9 km/hr	83° (E)	N/A
Aug 14	-	PM2.5	24-Hour	29 µg/m3	139 µg/m3	5.7 km/hr	13° (NNE)	432828
Aug 15	-	PM2.5	24-Hour	29 µg/m3	32 µg/m3	8.6 km/hr	32° (NNE)	432828
Aug 21	6	PM2.5	1-Hour	80 µg/m3	103 µg/m3	9.0 km/hr	19° (NNE)	N/A
Aug 21	7	PM2.5	1-Hour	80 µg/m3	129 µg/m3	12.6 km/hr	14° (NNE)	N/A

- The source of the exceedance of the PM2.5 objective and guideline was due to wildfire smoke.
- As the bulk reporting protocol is in effect, all measured exceedances of the 1-hour PM2.5 AAAQG were not required to be reported to Alberta EDGE. No reference numbers were assigned as a result.

Timeseries Chart of Hourly Average for the month of Aug 2024 - AQHI - Grimshaw Station



TABLES, CHARTS AND WIND ROSES

986-C STATION

Peace River Area Monitoring Program

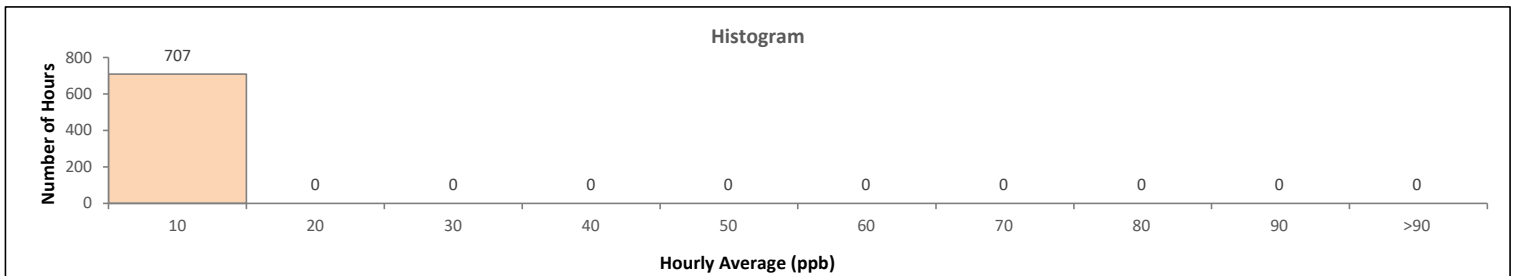
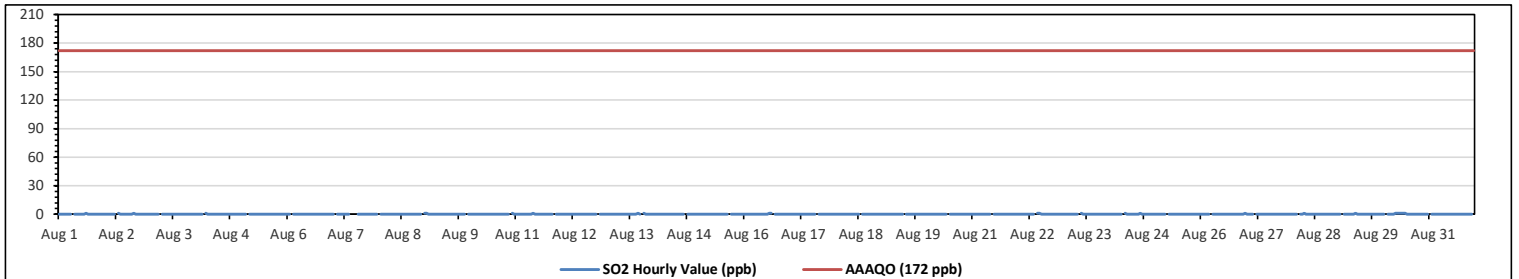
986-C Station - August 2024

Summary of Hourly Averages

SULPHUR DIOXIDE (SO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb																												
Number of 1-Hour Exceedances:					0					Number of 24-Hour Exceedances:					0					30-Day Exceedence:					0			
Maximum Hourly Value:					1 ppb on Aug 1 at hr 14					Hours in Service:					744													
Maximum Daily Value:					0.3 ppb on Aug 30					Hours of Data:					707													
Minimum Hourly Value:					0 ppb on Aug 1 at hr 0					Hours of Missing Data:					0													
Minimum Daily Value:					0.0 ppb on Aug 3					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				
Aug 1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Aug 2	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0.1
Aug 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	0.0
Aug 4	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Aug 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	0.0
Aug 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	0.0
Aug 7	0	S	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 8	S	0	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
Aug 9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	0.1	
Aug 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	0	1	0.0	
Aug 11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	1	0.0
Aug 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0.0
Aug 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	S	1	0	0	0	0	0	1	0.1	
Aug 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	S	0	0	0	0	0	0	0	0	0	0.0
Aug 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	0.0
Aug 16	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	
Aug 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	0.0
Aug 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	0.0
Aug 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	0.0
Aug 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	0.0
Aug 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	0.0
Aug 22	0	0	0	0	0	0	0	0	0	S	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Aug 23	0	0	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.0
Aug 24	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.1
Aug 25	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 26	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.0	
Aug 27	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 28	0	0	0	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	
Aug 29	0	0	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	
Aug 30	0	S	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	
Aug 31	S	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	
Diurnal Maximum	1	1	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	0	0	1	1				
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	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							ND	No Data (Machine Not in Service)							Y	Routine Maintenance											
X	Invalid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)								Power Failure											
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

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

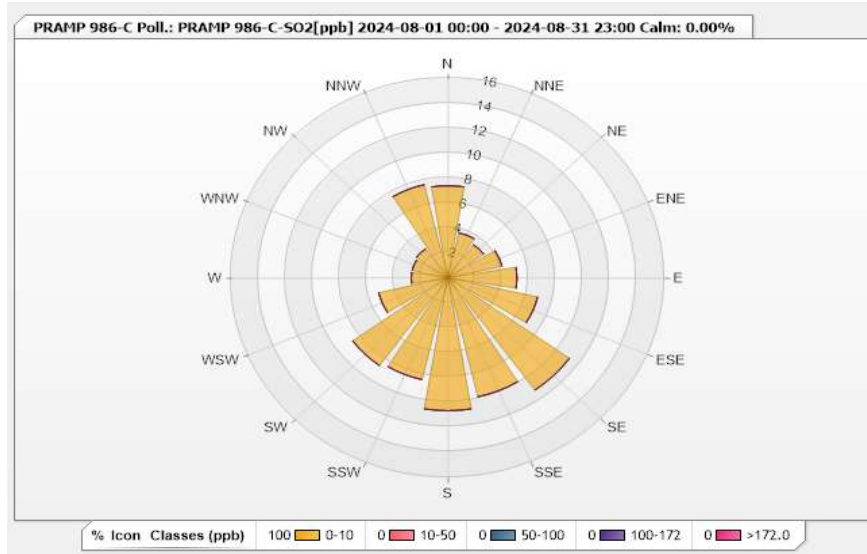


Station: PRAMP 986-C Poll.: PRAMP 986-C-SO2[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.76% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	7.38	0	0	0	0	7.38
NNE	3.69	0	0	0	0	3.69
NE	3.26	0	0	0	0	3.26
ENE	4.11	0	0	0	0	4.11
E	5.11	0	0	0	0	5.11
ESE	6.81	0	0	0	0	6.81
SE	11.06	0	0	0	0	11.06
SSE	9.79	0	0	0	0	9.79
S	10.64	0	0	0	0	10.64
SSW	8.37	0	0	0	0	8.37
SW	8.65	0	0	0	0	8.65
WSW	5.25	0	0	0	0	5.25
W	2.7	0	0	0	0	2.7
WNW	2.7	0	0	0	0	2.7
NW	2.84	0	0	0	0	2.84
NNW	7.66	0	0	0	0	7.66
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

986-C Station - August 2024

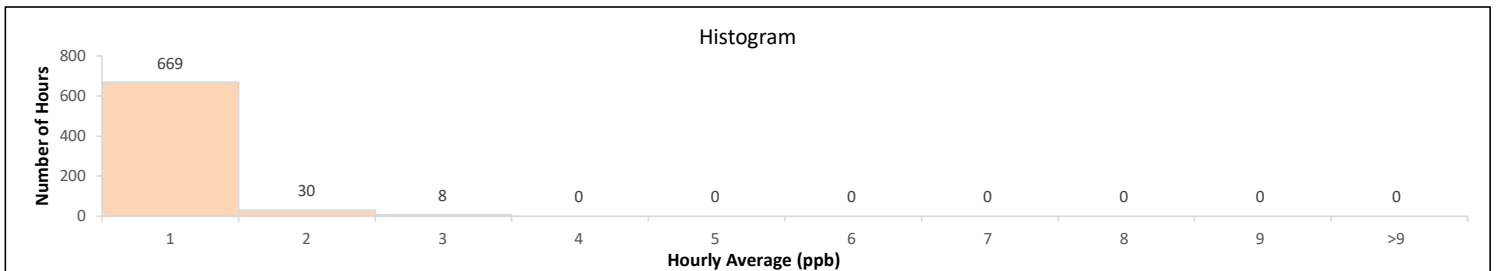
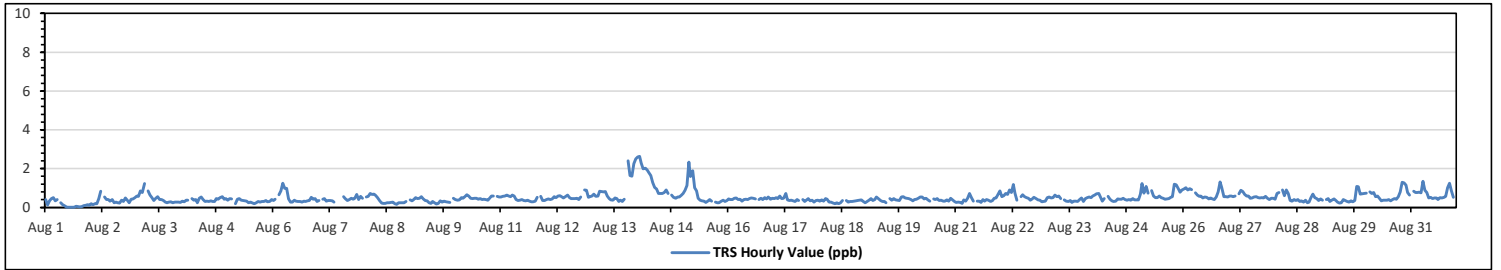
Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Maximum Hourly Value:	2.63	ppb	on Aug 14 at hr 1	Hours in Service:	744																							
Maximum Daily Value:	1.22	ppb	on Aug 14	Hours of Data:	707																							
Minimum Hourly Value:	0.01	ppb	on Aug 1 at hr 11	Hours of Missing Data:	0																							
Minimum Daily Value:	0.16	ppb	on Aug 1	Hours of Calibration:	37																							
Monthly Average:	0.51	ppb		Operational Uptime:	100.0																							
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
Aug 1	0.41	0.12	0.34	0.45	0.5	0.34	0.4	\$	0.24	0.15	0.08	0.01	0.01	0.02	0.02	0.06	0.04	0.03	0.04	0.09	0.11	0.14	0.11	0.01	0.50	0.16		
Aug 2	0.18	0.15	0.18	0.18	0.46	0.84	\$	0.54	0.4	0.41	0.32	0.4	0.24	0.27	0.23	0.22	0.37	0.31	0.49	0.37	0.24	0.43	0.44	0.51	0.15	0.84	0.36	
Aug 3	0.58	0.57	0.85	0.78	1.23	\$	0.86	0.63	0.51	0.36	0.47	0.55	0.41	0.4	0.35	0.27	0.24	0.27	0.29	0.25	0.27	0.28	0.28	0.26	0.24	1.23	0.48	
Aug 4	0.32	0.29	0.37	0.38	\$	0.45	0.38	0.4	0.23	0.47	0.53	0.42	0.3	0.33	0.31	0.34	0.3	0.46	0.43	0.51	0.56	0.43	0.46	0.23	0.56	0.39		
Aug 5	0.38	0.45	0.44	\$	0.18	0.43	0.45	0.38	0.36	0.34	0.33	0.25	0.28	0.22	0.2	0.25	0.31	0.28	0.3	0.3	0.36	0.29	0.31	0.4	0.18	0.45	0.33	
Aug 6	0.36	0.43	\$	0.66	0.86	1.24	0.98	0.98	0.44	0.27	0.27	0.37	0.33	0.3	0.3	0.27	0.32	0.31	0.34	0.35	0.52	0.43	0.46	0.31	0.27	1.24	0.48	
Aug 7	0.35	\$	0.43	0.45	0.33	0.35	0.36	0.34	0.27	C	C	C	C	C	0.56	0.45	0.36	0.4	0.47	0.43	0.48	0.67	0.41	0.57	0.48	0.27	0.67	0.43
Aug 8	\$	0.54	0.57	0.73	0.67	0.68	0.62	0.5	0.34	0.22	0.21	0.21	0.23	0.24	0.26	0.27	0.19	0.16	0.23	0.23	0.24	0.24	0.3	\$	0.16	0.73	0.36	
Aug 9	0.39	0.34	0.41	0.5	0.46	0.48	0.55	0.44	0.36	0.34	0.25	0.21	0.3	0.23	0.17	0.21	0.34	0.28	0.32	0.29	0.27	0.26	\$	0.47	0.17	0.55	0.34	
Aug 10	0.41	0.38	0.39	0.51	0.48	0.56	0.66	0.58	0.47	0.46	0.47	0.47	0.43	0.45	0.42	0.43	0.4	0.38	0.49	0.58	0.58	\$	0.57	0.53	0.38	0.66	0.48	
Aug 11	0.53	0.57	0.6	0.63	0.58	0.56	0.63	0.58	0.41	0.35	0.37	0.4	0.36	0.34	0.38	0.33	0.29	0.29	0.32	0.52	\$	0.57	0.35	0.36	0.29	0.63	0.45	
Aug 12	0.41	0.44	0.41	0.44	0.56	0.51	0.58	0.61	0.56	0.49	0.55	0.63	0.51	0.45	0.45	0.45	0.47	0.42	0.54	\$	0.89	0.88	0.52	0.55	0.41	0.89	0.54	
Aug 13	0.58	0.68	0.57	0.59	0.84	0.82	0.8	0.82	0.58	0.45	0.39	0.37	0.49	0.46	0.3	0.38	0.31	0.43	\$	2.4	1.64	1.62	2.26	2.5	0.30	2.50	0.88	
Aug 14	2.61	2.63	2.28	1.99	2.03	1.93	1.8	1.64	1.28	1.03	0.96	0.73	0.71	0.73	0.76	0.89	0.72	\$	0.63	0.52	0.47	0.54	0.54	0.62	0.47	2.63	1.22	
Aug 15	0.71	0.88	1.14	2.33	1.59	1.9	1.02	0.85	0.47	0.38	0.34	0.32	0.26	0.32	0.42	0.33	\$	0.28	0.25	0.25	0.31	0.37	0.31	0.36	0.25	2.33	0.67	
Aug 16	0.44	0.42	0.4	0.48	0.49	0.42	0.43	0.33	0.4	0.43	0.41	0.46	0.49	0.47	0.44	\$	0.42	0.48	0.41	0.5	0.44	0.53	0.43	0.47	0.33	0.53	0.44	
Aug 17	0.46	0.51	0.45	0.59	0.46	0.47	0.73	0.39	0.35	0.37	0.34	0.31	0.41	0.36	\$	0.4	0.31	0.37	0.45	0.34	0.38	0.28	0.36	0.37	0.28	0.73	0.41	
Aug 18	0.33	0.39	0.33	0.46	0.43	0.27	0.28	0.22	0.2	0.23	0.2	0.24	0.35	\$	0.36	0.27	0.3	0.3	0.32	0.34	0.36	0.38	0.39	0.31	0.20	0.46	0.32	
Aug 19	0.25	0.31	0.38	0.46	0.36	0.41	0.54	0.45	0.35	0.31	0.3	0.25	\$	0.45	0.38	0.45	0.39	0.38	0.35	0.53	0.55	0.49	0.48	0.45	0.25	0.55	0.40	
Aug 20	0.42	0.34	0.4	0.43	0.48	0.53	0.53	0.44	0.48	0.39	0.33	\$	0.44	0.41	0.45	0.36	0.38	0.32	0.33	0.39	0.33	0.48	0.39	0.31	0.31	0.53	0.41	
Aug 21	0.26	0.28	0.26	0.21	0.39	0.33	0.48	0.72	0.5	0.33	\$	0.32	0.33	0.26	0.4	0.32	0.4	0.38	0.3	0.36	0.47	0.49	0.67	0.86	0.21	0.86	0.41	
Aug 22	0.56	0.61	0.72	0.67	0.9	0.77	1.18	0.74	0.38	\$	0.55	0.65	0.55	0.5	0.47	0.37	0.44	0.52	0.45	0.39	0.37	0.29	0.31	0.32	0.29	1.18	0.55	
Aug 23	0.51	0.53	0.49	0.51	0.64	0.56	0.59	0.45	\$	0.39	0.32	0.31	0.35	0.26	0.33	0.32	0.3	0.4	0.49	0.3	0.45	0.51	0.53	0.51	0.26	0.64	0.44	
Aug 24	0.6	0.64	0.7	0.71	0.5	0.32	0.45	\$	0.57	0.43	0.34	0.31	0.33	0.44	0.43	0.43	0.48	0.41	0.37	0.41	0.38	0.46	0.39	0.39	0.31	0.71	0.46	
Aug 25	0.39	0.68	1.23	0.74	1.09	0.74	\$	0.87	0.6	0.5	0.5	0.59	0.51	0.48	0.43	0.44	0.45	0.52	0.55	1.2	1.17	0.94	0.79	0.89	0.39	1.23	0.71	
Aug 26	0.96	1.02	0.9	0.97	0.92	\$	0.75	0.64	0.57	0.58	0.49	0.54	0.52	0.44	0.49	0.44	0.41	0.54	0.8	1.31	1.03	0.56	0.55	0.54	0.41	1.31	0.69	
Aug 27	0.58	0.59	0.56	0.6	\$	0.7	0.88	0.82	0.67	0.59	0.6	0.47	0.49	0.54	0.55	0.5	0.49	0.5	0.49	0.57	0.47	0.4	0.47	0.48	0.40	0.88	0.57	
Aug 28	0.43	0.72	0.76	\$	0.91	0.61	0.89	0.73	0.36	0.33	0.42	0.35	0.42	0.31	0.34	0.28	0.38	0.23	0.28	0.51	0.69	0.51	0.45	0.35	0.23	0.91	0.49	
Aug 29	0.44	0.37	\$	0.42	0.46	0.31	0.37	0.44	0.36	0.28	0.22	0.25	0.4	0.35	0.3	0.27	0.34	0.29	0.35	1.09	1.07	0.69	0.7	0.72	0.22	1.09	0.46	
Aug 30	0.74	\$	0.8	0.72	0.78	0.56	0.58	0.49	0.34	0.37	0.37	0.38	0.41	0.34	0.41	0.45	0.43	0.55	0.8	1.29	1.26	1.15	0.76	0.64	0.34	1.29	0.64	
Aug 31	\$	0.84	0.77	0.78	0.79	0.75	1.35	0.88	0.78	0.49	0.52	0.45	0.49	0.49	0.42	0.51	0.49	0.52	0.57	1.02	1.24	0.86	0.52	\$	0.42	1.35	0.71	
Diurnal Maximum	2.61	2.63	2.28	2.33	2.03	1.93	1.80	1.64	1.28	1.03	0.96	0.73	0.71	0.73	0.76	0.89	0.72	0.55	0.80	2.40	1.64	1.62	2.26	2.50				
Diurnal Average	0.54	0.58	0.63	0.67	0.70	0.65	0.69	0.62	0.46	0.40	0.39	0.39	0.39	0.38	0.37	0.36	0.37	0.36	0.41	0.59	0.59	0.53	0.52	0.54				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance											
K	Collection Error							ND	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure			
X	Invalid Data (Equipment Malfunction / Recovery)							NRM	Unit Maint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

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

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

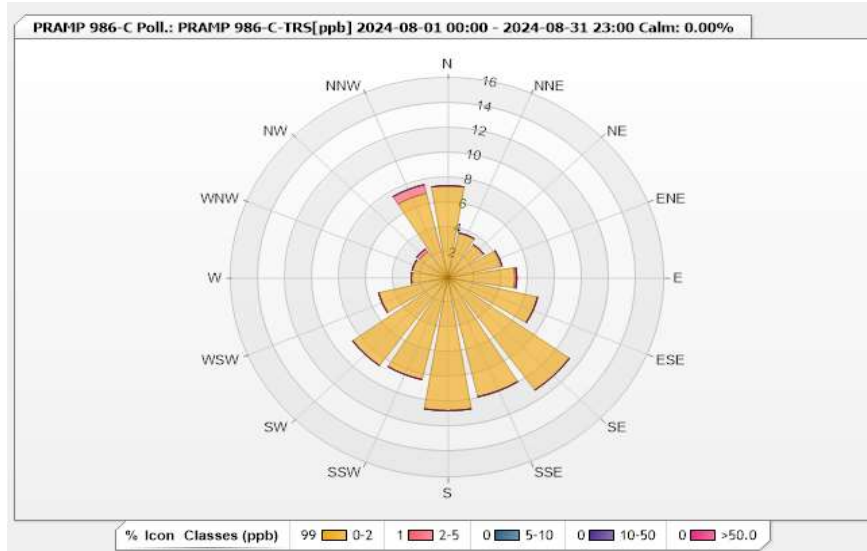


Station: PRAMP 986-C Poll.: PRAMP 986-C-TRS[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.76% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	7.38	0	0	0	0	7.38
NNE	3.69	0	0	0	0	3.69
NE	3.26	0	0	0	0	3.26
ENE	4.11	0	0	0	0	4.11
E	4.96	0.14	0	0	0	5.1
ESE	6.81	0	0	0	0	6.81
SE	11.06	0	0	0	0	11.06
SSE	9.79	0	0	0	0	9.79
S	10.64	0	0	0	0	10.64
SSW	8.37	0	0	0	0	8.37
SW	8.65	0	0	0	0	8.65
WSW	5.25	0	0	0	0	5.25
W	2.7	0	0	0	0	2.7
WNW	2.7	0	0	0	0	2.7
NW	2.55	0.28	0	0	0	2.83
NNW	6.95	0.71	0	0	0	7.66
Summary	98.87	1.13	0	0	0	100



Peace River Area Monitoring Program

986-C Station - August 2024

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

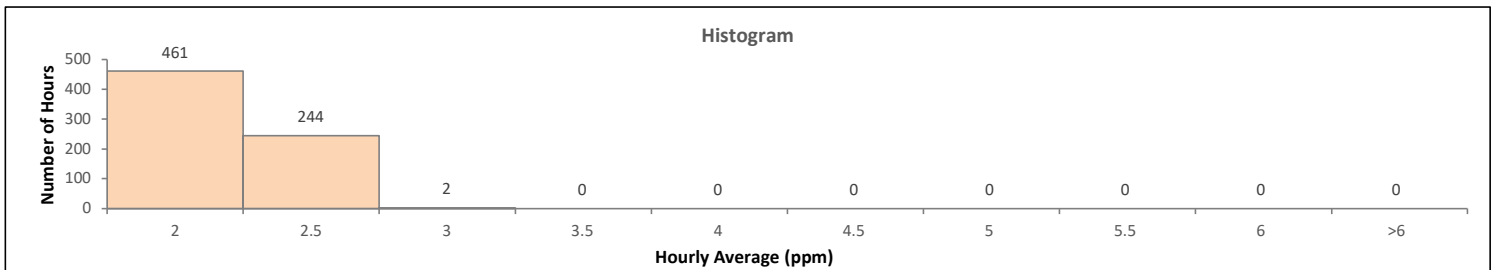
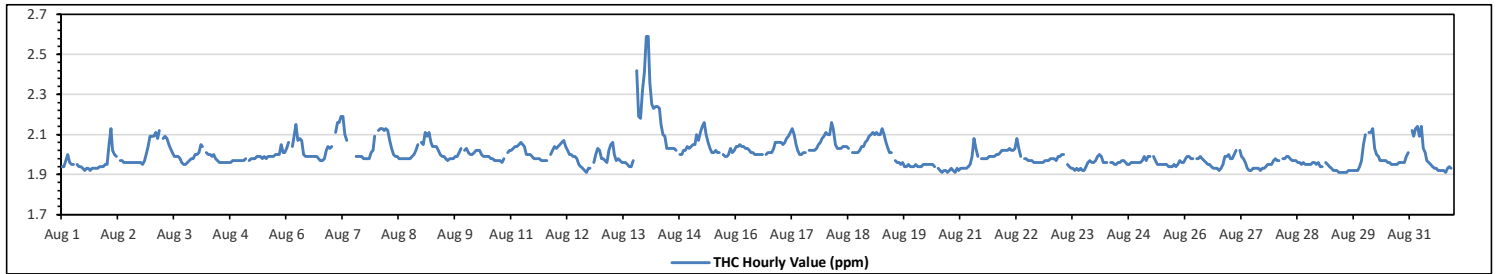
Maximum Hourly Value:	2.59	ppm	on Aug 14 at hr 0	Hours in Service:	744
Maximum Daily Value:	2.15	ppm	on Aug 14	Hours of Data:	707
Minimum Hourly Value:	1.91	ppm	on Aug 12 at hr 16	Hours of Missing Data:	0
Minimum Daily Value:	1.93	ppm	on Aug 20	Hours of Calibration:	37
Monthly Average:	2.00	ppm		Operational 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	
Aug 1	1.94	1.94	1.97	2.00	1.96	1.95	1.95	\$	1.95	1.94	1.94	1.93	1.92	1.93	1.93	1.92	1.93	1.93	1.93	1.93	1.94	1.94	1.94	1.95	1.92	2.00	1.94	
Aug 2	1.95	2.05	2.13	2.02	2.00	1.99	\$	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.97	2.00	2.04	2.09	1.95	2.13	1.99	
Aug 3	2.09	2.09	2.11	2.08	2.12	\$	2.08	2.09	2.08	2.05	2.03	2.01	1.99	1.99	1.99	1.98	1.96	1.95	1.95	1.96	1.97	1.98	1.98	2.00	1.95	2.12	2.02	
Aug 4	2.00	2.01	2.05	2.04	\$	2.01	2.00	2.00	1.99	2.00	1.98	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.96	2.05	1.98	
Aug 5	1.97	1.97	1.98	\$	1.97	1.98	1.98	1.98	1.99	1.99	1.99	1.98	1.99	1.98	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.05	2.01	2.01	1.97	2.05	1.99	
Aug 6	2.03	2.06	\$	2.04	2.10	2.15	2.07	2.08	2.07	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.97	1.97	1.98	2.02	2.04	2.03	1.97	2.15	2.02	
Aug 7	2.04	\$	2.11	2.16	2.16	2.19	2.19	2.10	2.07	C	C	C	C	C	1.99	1.99	1.99	1.99	1.98	1.98	1.98	2.01	2.02	2.09	1.98	2.19	2.05	
Aug 8	\$	2.12	2.13	2.13	2.12	2.13	2.12	2.07	2.03	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.02	2.05	\$	1.98	2.13	2.03	
Aug 9	2.06	2.05	2.11	2.09	2.11	2.06	2.04	2.04	2.04	2.02	2.00	1.99	1.99	1.98	1.97	1.98	1.98	1.98	1.99	1.99	2.01	2.03	\$	2.02	1.97	2.11	2.02	
Aug 10	2.03	2.01	2.00	2.00	2.01	2.02	2.02	2.02	2.00	1.99	1.99	1.99	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.98	\$	2.01	2.02	1.96	2.03	1.99	
Aug 11	2.02	2.03	2.04	2.04	2.05	2.06	2.05	2.04	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	\$	2.00	2.02	2.04	1.97	2.06	2.01	
Aug 12	2.03	2.04	2.05	2.06	2.07	2.04	2.02	2.00	2.00	1.99	1.99	1.98	1.95	1.94	1.93	1.92	1.91	1.93	1.93	\$	1.96	2.00	2.03	2.02	1.91	2.07	1.99	
Aug 13	1.98	1.98	1.97	1.96	2.02	2.05	2.06	2.00	1.97	1.98	1.97	1.96	1.96	1.96	1.95	1.94	1.94	1.97	\$	2.42	2.19	2.18	2.32	2.41	1.94	2.42	2.05	
Aug 14	2.59	2.59	2.36	2.25	2.23	2.24	2.24	2.23	2.15	2.10	2.09	2.03	2.03	2.03	2.03	2.03	2.02	\$	2.00	2.00	2.02	2.02	2.04	2.03	2.00	2.59	2.15	
Aug 15	2.04	2.05	2.05	2.10	2.07	2.11	2.14	2.16	2.10	2.06	2.03	2.01	2.01	2.02	2.01	2.01	\$	2.00	1.99	1.99	2.00	2.03	2.01	2.02	1.99	2.16	2.04	
Aug 16	2.04	2.04	2.05	2.04	2.04	2.03	2.03	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	\$	2.00	2.01	2.01	2.01	2.03	2.06	2.06	2.06	2.00	2.06	2.02	
Aug 17	2.06	2.05	2.06	2.08	2.09	2.11	2.13	2.10	2.05	2.02	2.00	2.00	2.01	2.01	\$	2.02	2.02	2.02	2.02	2.03	2.05	2.06	2.08	2.09	2.00	2.13	2.05	
Aug 18	2.11	2.10	2.10	2.16	2.13	2.05	2.03	2.03	2.03	2.04	2.04	2.04	2.03	\$	2.01	2.01	2.01	2.01	2.02	2.04	2.04	2.06	2.07	2.09	2.01	2.16	2.05	
Aug 19	2.10	2.11	2.10	2.11	2.10	2.10	2.13	2.10	2.06	2.03	2.01	2.01	\$	1.97	1.96	1.96	1.95	1.96	1.94	1.94	1.95	1.94	1.94	1.94	1.94	1.94	2.13	2.02
Aug 20	1.95	1.94	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.94	\$	1.93	1.92	1.91	1.92	1.92	1.91	1.92	1.93	1.92	1.91	1.93	1.92	1.91	1.95	1.93	
Aug 21	1.93	1.93	1.93	1.93	1.94	1.95	1.99	2.08	2.03	1.99	\$	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.99	2.00	2.00	2.01	2.02	2.02	1.93	2.08	1.98	
Aug 22	2.02	2.02	2.03	2.02	2.02	2.03	2.08	2.03	1.99	\$	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.96	2.08	1.99	
Aug 23	1.98	1.98	1.98	1.97	1.99	1.99	2.00	\$	1.95	1.94	1.93	1.93	1.92	1.93	1.92	1.93	1.92	1.93	1.92	1.92	1.94	1.96	1.97	1.96	1.96	1.92	2.00	1.96
Aug 24	1.97	1.99	2.00	1.99	1.96	1.96	1.96	\$	1.96	1.96	1.95	1.95	1.96	1.96	1.97	1.97	1.96	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.95	2.00	1.96	
Aug 25	1.96	1.97	1.99	1.97	1.99	1.99	\$	1.99	1.97	1.95	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.95	1.94	1.95	1.97	1.96	1.96	1.94	1.99	1.96	
Aug 26	1.98	1.99	1.99	1.98	1.98	\$	1.98	1.98	1.99	1.98	1.97	1.96	1.95	1.95	1.94	1.93	1.93	1.93	1.92	1.93	1.95	1.99	1.99	2.00	1.92	2.00	1.96	
Aug 27	1.98	1.98	2.00	2.02	\$	2.02	1.99	1.98	1.96	1.93	1.92	1.92	1.93	1.93	1.93	1.93	1.92	1.93	1.93	1.94	1.95	1.95	1.97	1.92	2.02	1.95		
Aug 28	1.98	1.97	1.97	\$	1.98	1.98	1.99	1.99	1.98	1.97	1.97	1.97	1.96	1.96	1.95	1.96	1.95	1.95	1.95	1.95	1.96	1.96	1.95	1.96	1.95	1.99	1.97	
Aug 29	1.94	1.94	\$	1.96	1.95	1.94	1.93	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.94	1.97	2.05	1.91	2.05	1.93	
Aug 30	2.10	\$	2.11	2.11	2.13	2.03	2.00	1.99	1.97	1.97	1.97	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.99	2.01	1.95	2.13	2.00	
Aug 31	\$	2.12	2.09	2.13	2.14	2.09	2.14	2.03	2.01	1.97	1.96	1.95	1.94	1.93	1.93	1.92	1.92	1.92	1.92	1.91	1.93	1.94	1.93	\$	1.91	2.14	1.99	
Diurnal Maximum	2.59	2.59	2.36	2.25	2.23	2.24	2.24	2.23	2.15	2.10	2.09	2.04	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.42	2.19	2.18	2.32	2.41				
Diurnal Average	2.03	2.04	2.05	2.05	2.05	2.04	2.04	2.03	2.01	1.99	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.98	1.98	2.00	2.01	2.02				

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

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

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

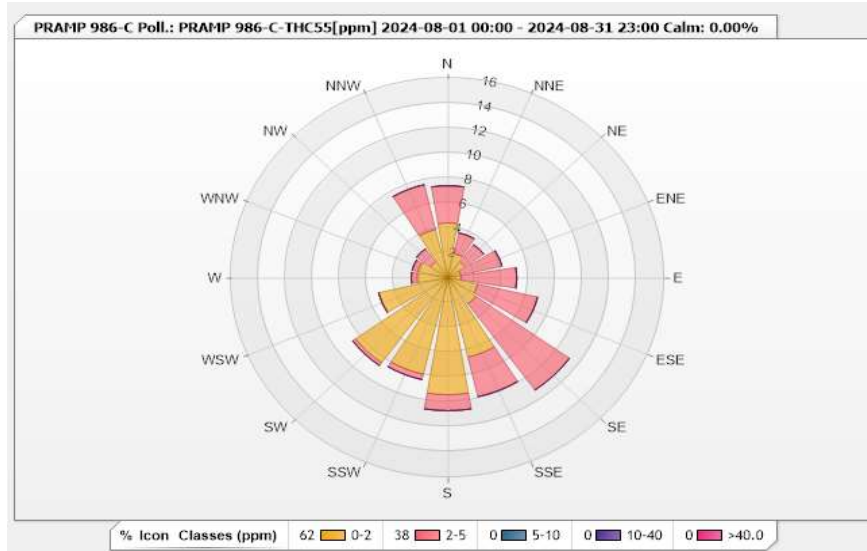


Station: PRAMP 986-C Poll.: PRAMP 986-C-THC55[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	4.4	2.98	0	0	0	7.38
NNE	1.99	1.7	0	0	0	3.69
NE	1.56	1.7	0	0	0	3.26
ENE	0.99	3.12	0	0	0	4.11
E	0.99	4.11	0	0	0	5.1
ESE	2.27	4.54	0	0	0	6.81
SE	2.55	8.51	0	0	0	11.06
SSE	6.52	3.26	0	0	0	9.78
S	9.36	1.28	0	0	0	10.64
SSW	7.94	0.43	0	0	0	8.37
SW	8.37	0.28	0	0	0	8.65
WSW	5.25	0	0	0	0	5.25
W	2.27	0.43	0	0	0	2.7
WNW	2.27	0.43	0	0	0	2.7
NW	1.56	1.28	0	0	0	2.84
NNW	3.97	3.69	0	0	0	7.66
Summary	62.26	37.74	0	0	0	100



Peace River Area Monitoring Program

986-C Station - August 2024

Summary of Hourly Averages

METHANE (CH4) in ppm

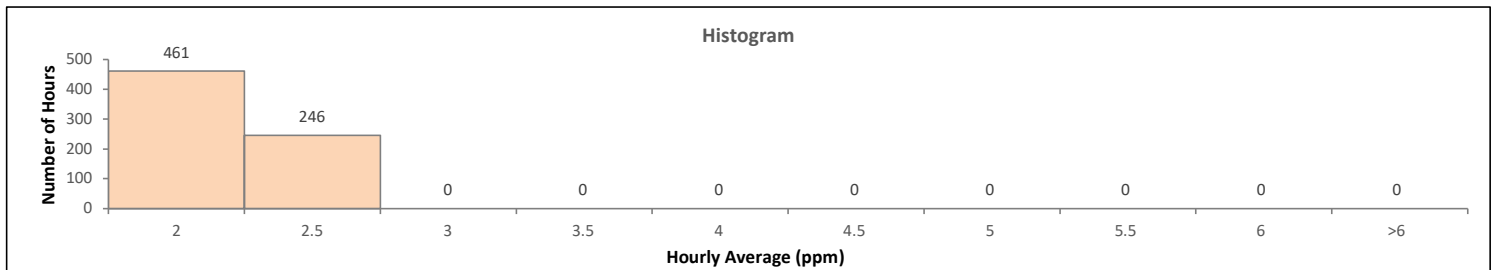
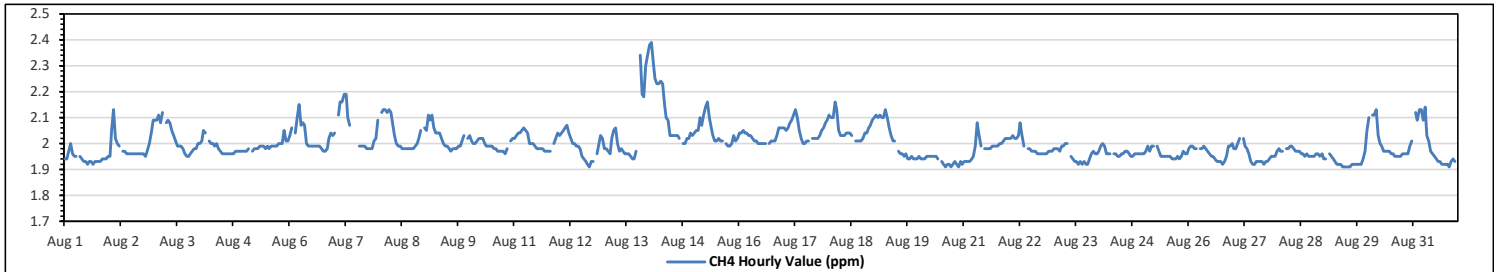
Maximum Hourly Value:	2.39	ppm	on Aug 14 at hr 1	Hours in Service:	744
Maximum Daily Value:	2.13	ppm	on Aug 14	Hours of Data:	707
Minimum Hourly Value:	1.91	ppm	on Aug 12 at hr 16	Hours of Missing Data:	0
Minimum Daily Value:	1.93	ppm	on Aug 20	Hours of Calibration:	37
Monthly Average:	2.00	ppm		Operational 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	
Aug 1	1.94	1.94	1.97	2.00	1.96	1.95	1.95	\$	1.95	1.94	1.93	1.93	1.92	1.93	1.93	1.92	1.93	1.93	1.93	1.93	1.94	1.94	1.94	1.95	1.92	2.00	1.94	
Aug 2	1.95	2.05	2.13	2.02	2.00	1.99	\$	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.97	2.00	2.04	2.09	1.95	2.13	1.99	
Aug 3	2.09	2.09	2.11	2.08	2.12	\$	2.08	2.09	2.08	2.05	2.03	2.01	1.99	1.99	1.99	1.98	1.96	1.95	1.95	1.96	1.97	1.98	1.98	2.00	1.95	2.12	2.02	
Aug 4	2.00	2.01	2.05	2.04	\$	2.01	2.00	2.00	1.99	2.00	1.98	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.96	2.05	1.98	
Aug 5	1.97	1.97	1.98	\$	1.97	1.98	1.98	1.98	1.99	1.99	1.99	1.98	1.99	1.98	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.05	2.01	2.01	1.97	2.05	1.99	
Aug 6	2.03	2.06	\$	2.04	2.10	2.15	2.07	2.08	2.07	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.97	1.97	1.98	2.02	2.04	2.03	1.97	2.15	2.02	
Aug 7	2.04	\$	2.11	2.16	2.16	2.19	2.19	2.10	2.07	C	C	C	C	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.98	2.01	2.02	2.09	1.98	2.19	2.05	
Aug 8	\$	2.12	2.13	2.13	2.12	2.13	2.12	2.07	2.03	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.02	2.05	\$	1.98	2.13	2.03
Aug 9	2.06	2.05	2.11	2.09	2.11	2.06	2.04	2.04	2.04	2.02	2.00	1.99	1.99	1.98	1.97	1.98	1.98	1.98	1.98	1.99	1.99	2.01	2.03	\$	1.97	2.11	2.02	
Aug 10	2.03	2.01	2.00	2.00	2.01	2.02	2.02	2.02	2.00	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.98	\$	2.01	2.02	1.96	2.03	1.99
Aug 11	2.02	2.03	2.04	2.04	2.05	2.06	2.05	2.04	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	\$	2.00	2.02	2.04	1.97	2.06	2.01	
Aug 12	2.03	2.04	2.05	2.06	2.07	2.04	2.02	2.00	2.00	1.99	1.99	1.98	1.95	1.94	1.93	1.92	1.91	1.93	1.93	\$	1.96	2.00	2.03	2.02	1.91	2.07	1.99	
Aug 13	1.98	1.98	1.97	1.96	2.02	2.05	2.06	2.00	1.97	1.98	1.97	1.96	1.96	1.96	1.95	1.94	1.94	1.97	\$	2.34	2.19	2.18	2.30	2.34	1.94	2.34	2.04	
Aug 14	2.38	2.39	2.31	2.25	2.23	2.23	2.24	2.23	2.15	2.10	2.09	2.03	2.03	2.03	2.03	2.03	2.02	\$	2.00	2.00	2.02	2.02	2.04	2.03	2.00	2.39	2.13	
Aug 15	2.04	2.05	2.05	2.10	2.07	2.11	2.14	2.16	2.10	2.06	2.03	2.01	2.01	2.02	2.01	2.01	\$	2.00	1.99	1.99	2.00	2.03	2.01	2.02	1.99	2.16	2.04	
Aug 16	2.04	2.04	2.05	2.04	2.04	2.03	2.03	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	\$	2.00	2.01	2.01	2.01	2.03	2.06	2.06	2.06	2.00	2.06	2.02	
Aug 17	2.06	2.05	2.06	2.08	2.09	2.11	2.13	2.10	2.05	2.02	2.00	2.00	2.01	2.01	\$	2.02	2.02	2.02	2.02	2.03	2.05	2.06	2.08	2.09	2.00	2.13	2.05	
Aug 18	2.11	2.10	2.10	2.16	2.13	2.05	2.03	2.03	2.03	2.04	2.04	2.04	2.03	\$	2.01	2.01	2.01	2.01	2.02	2.04	2.04	2.06	2.07	2.09	2.01	2.16	2.05	
Aug 19	2.10	2.11	2.10	2.11	2.10	2.10	2.13	2.10	2.06	2.03	2.01	2.01	\$	1.97	1.96	1.96	1.95	1.96	1.94	1.94	1.95	1.94	1.94	1.94	1.94	2.13	2.02	
Aug 20	1.95	1.94	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.94	\$	1.93	1.92	1.91	1.92	1.92	1.91	1.92	1.93	1.92	1.91	1.93	1.92	1.91	1.95	1.93
Aug 21	1.93	1.93	1.93	1.93	1.94	1.95	1.99	2.08	2.03	1.99	\$	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.99	2.00	2.00	2.01	2.02	2.02	1.93	2.08	1.98	
Aug 22	2.02	2.02	2.03	2.02	2.02	2.03	2.08	2.03	1.99	\$	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.96	2.08	1.99	
Aug 23	1.98	1.98	1.98	1.97	1.99	1.99	2.00	\$	1.95	1.94	1.93	1.93	1.92	1.93	1.92	1.93	1.92	1.93	1.92	1.92	1.94	1.96	1.97	1.96	1.96	1.92	2.00	1.96
Aug 24	1.97	1.99	2.00	1.99	1.96	1.96	1.96	\$	1.96	1.96	1.95	1.95	1.96	1.96	1.97	1.97	1.96	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.95	2.00	1.96	
Aug 25	1.96	1.97	1.99	1.97	1.99	1.99	\$	1.99	1.97	1.95	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.95	1.94	1.95	1.97	1.96	1.96	1.94	1.99	1.96	
Aug 26	1.98	1.99	1.99	1.98	1.98	\$	1.98	1.98	1.99	1.98	1.97	1.96	1.95	1.95	1.94	1.93	1.93	1.93	1.92	1.93	1.95	1.99	1.99	2.00	1.92	2.00	1.96	
Aug 27	1.98	1.98	2.00	2.02	\$	2.02	1.99	1.98	1.96	1.93	1.92	1.92	1.93	1.93	1.93	1.93	1.92	1.93	1.93	1.94	1.95	1.95	1.95	1.97	1.92	2.02	1.95	
Aug 28	1.98	1.97	1.97	\$	1.98	1.98	1.99	1.99	1.98	1.97	1.97	1.97	1.96	1.96	1.95	1.96	1.95	1.95	1.95	1.95	1.96	1.96	1.95	1.96	1.95	1.99	1.97	
Aug 29	1.94	1.94	\$	1.96	1.95	1.94	1.93	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.94	1.97	2.05	1.91	2.05	1.93	
Aug 30	2.10	\$	2.11	2.11	2.13	2.03	2.00	1.99	1.97	1.97	1.97	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.99	2.01	1.95	2.13	2.00	
Aug 31	\$	2.12	2.09	2.13	2.13	2.09	2.14	2.03	2.01	1.97	1.96	1.95	1.94	1.93	1.93	1.92	1.92	1.92	1.92	1.91	1.93	1.94	1.93	\$	1.91	2.14	1.99	
Diurnal Maximum	2.38	2.39	2.31	2.25	2.23	2.23	2.24	2.23	2.15	2.10	2.09	2.04	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.34	2.19	2.18	2.30	2.34				
Diurnal Average	2.02	2.03	2.05	2.05	2.05	2.04	2.04	2.03	2.01	1.99	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.98	1.98	2.00	2.01	2.02				

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

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

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

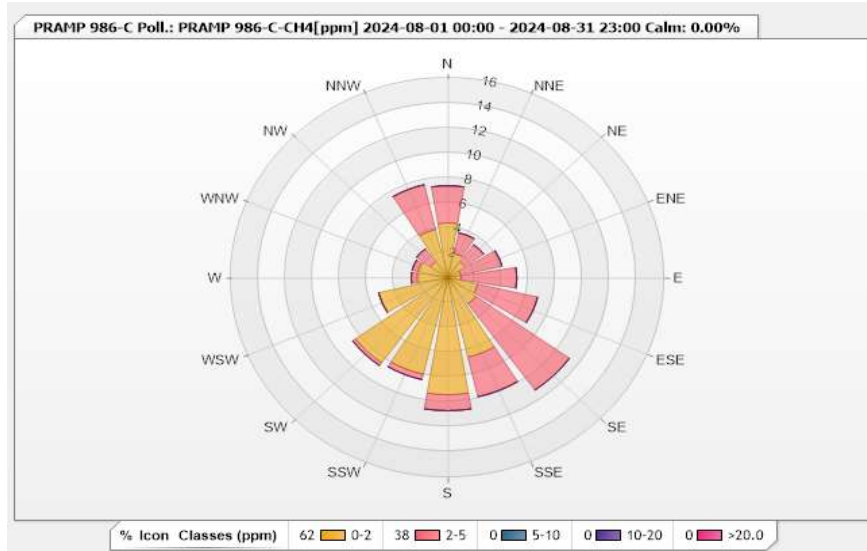


Station: PRAMP 986-C Poll.: PRAMP 986-C-CH4[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	4.4	2.98	0	0	0	7.38
NNE	1.99	1.7	0	0	0	3.69
NE	1.56	1.7	0	0	0	3.26
ENE	0.99	3.12	0	0	0	4.11
E	0.99	4.11	0	0	0	5.1
ESE	2.27	4.54	0	0	0	6.81
SE	2.55	8.51	0	0	0	11.06
SSE	6.52	3.26	0	0	0	9.78
S	9.36	1.28	0	0	0	10.64
SSW	7.94	0.43	0	0	0	8.37
SW	8.37	0.28	0	0	0	8.65
WSW	5.25	0	0	0	0	5.25
W	2.27	0.43	0	0	0	2.7
WNW	2.27	0.43	0	0	0	2.7
NW	1.56	1.28	0	0	0	2.84
NNW	3.97	3.69	0	0	0	7.66
Summary	62.26	37.74	0	0	0	100



Peace River Area Monitoring Program

986-C Station - August 2024

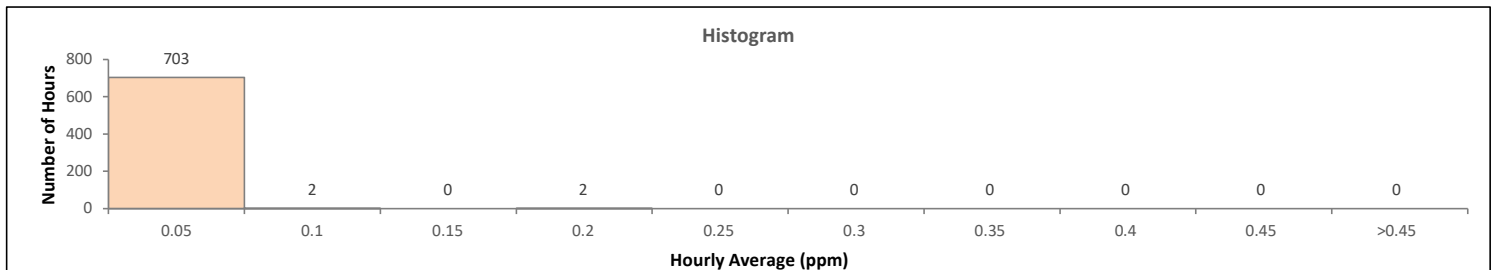
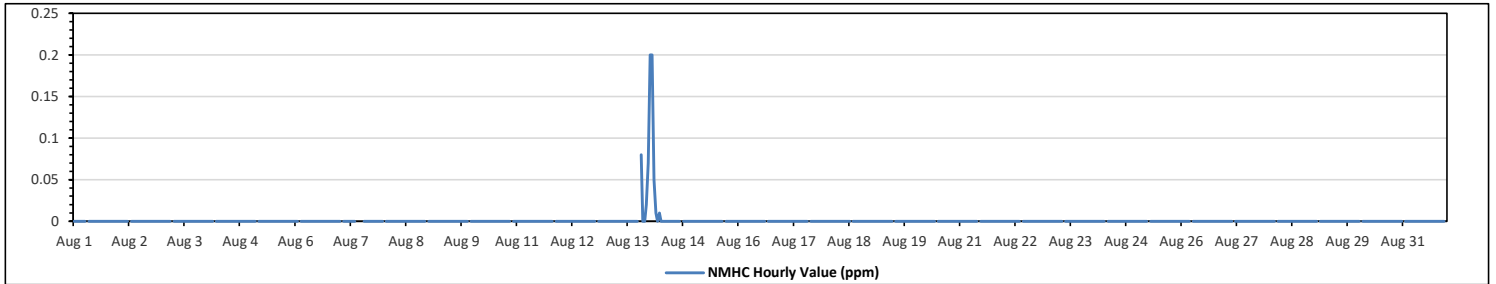
Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

Maximum Hourly Value:	0.20	ppm	on Aug 14 at hr 0	Hours in Service:	744																								
Maximum Daily Value:	0.02	ppm	on Aug 14	Hours of Data:	707																								
Minimum Hourly Value:	0.00	ppm	on Aug 1 at hr 0	Hours of Missing Data:	0																								
Minimum Daily Value:	0.00	ppm	on Aug 1	Hours of Calibration:	37																								
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					
Aug 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 3	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 4	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 5	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 6	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 7	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 8	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00		
Aug 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	\$	0.00	0.00	0.00	0.00		
Aug 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	0.00	0.00	0.00	0.00		
Aug 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	0.00	0.00	0.00	0.00		
Aug 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	0.00	0.00	0.00	0.00		
Aug 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	\$	0.08	0.00	0.02	0.07	0.00	0.01		
Aug 14	0.20	0.20	0.05	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.02	0.00		
Aug 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 25	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 26	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 27	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 28	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 29	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 30	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Aug 31	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00		
Diurnal Maximum	0.20	0.20	0.05	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.02	0.07					
Diurnal Average	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
C	Monthly Calibration							\$	Daily Zero-Span Check							Q	Quality Assurance												
K	Collection Error							ND	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure				
X	Invalid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																				
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																													

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

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

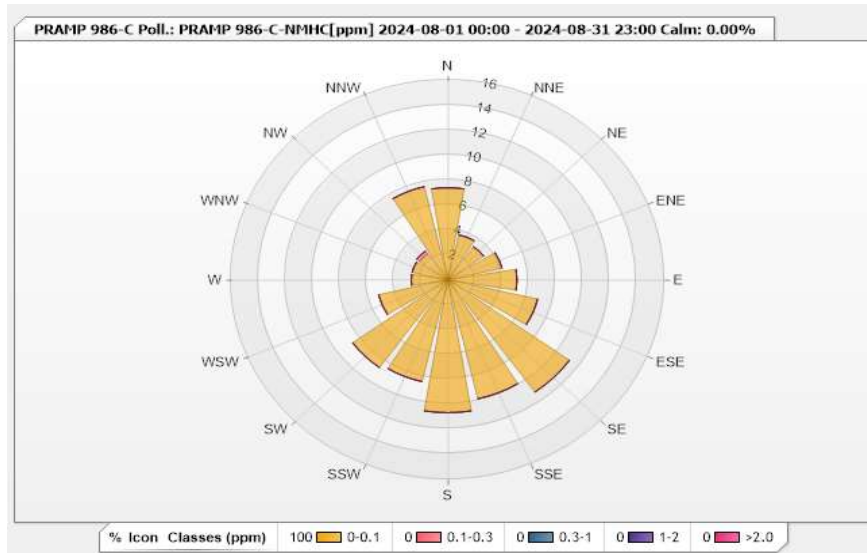


Station: PRAMP 986-C Poll.: PRAMP 986-C-NMHC[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	7.38	0	0	0	0	7.38
NNE	3.69	0	0	0	0	3.69
NE	3.26	0	0	0	0	3.26
ENE	4.11	0	0	0	0	4.11
E	5.11	0	0	0	0	5.11
ESE	6.81	0	0	0	0	6.81
SE	11.06	0	0	0	0	11.06
SSE	9.79	0	0	0	0	9.79
S	10.64	0	0	0	0	10.64
SSW	8.37	0	0	0	0	8.37
SW	8.65	0	0	0	0	8.65
WSW	5.25	0	0	0	0	5.25
W	2.7	0	0	0	0	2.7
WNW	2.7	0	0	0	0	2.7
NW	2.55	0.28	0	0	0	2.83
NNW	7.66	0	0	0	0	7.66
Summary	100	0.28	0	0	0	100



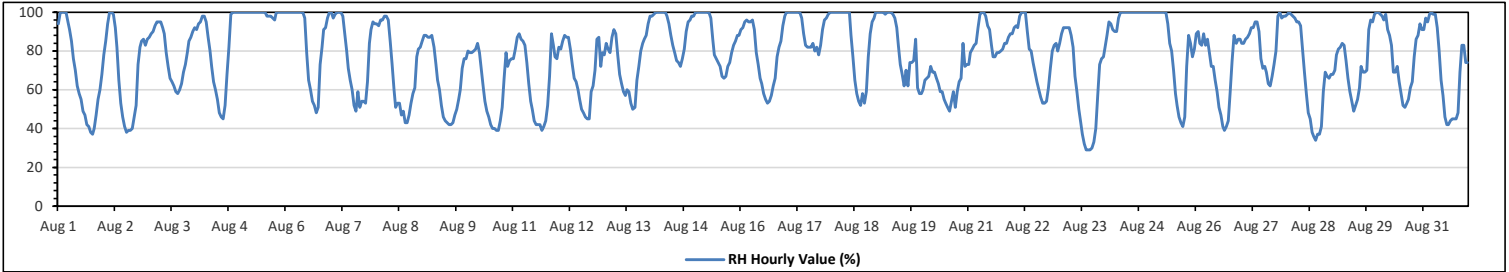
Peace River Area Monitoring Program

986-C Station - August 2024

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Aug 1 at hr 1	Hours in Service:	744																											
Maximum Daily Value:	99.5	%	on Aug 5	Hours of Data:	744																											
Minimum Hourly Value:	29	%	on Aug 23 at hr 14	Hours of Missing Data:	0																											
Minimum Daily Value:	61.3	%	on Aug 23	Hours of Calibration:	0																											
Monthly Average:	77.0	%		Operational Uptime:	100.0																											
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average					
Aug 1	94	100	100	100	100	95	91	85	76	70	62	58	55	49	47	42	41	38	37	40	47	55	60	68	37	100	67.1					
Aug 2	78	85	94	100	100	99	92	82	65	53	46	41	38	39	39	40	46	52	73	82	85	86	83	86	38	100	70.2					
Aug 3	87	89	90	93	95	95	95	92	89	79	72	66	64	62	59	58	60	63	69	73	79	85	87	90	58	95	78.8					
Aug 4	92	91	94	95	98	98	95	87	80	72	64	60	55	48	46	45	52	68	82	99	100	100	100	100	45	100	80.0					
Aug 5	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98	98	98	97	96	100	100	100	100	100	96	100	99.5					
Aug 6	100	100	100	100	100	100	100	100	100	100	100	97	79	65	60	54	52	48	51	73	82	91	92	97	100	48	100	85.0				
Aug 7	100	97	99	100	100	100	98	89	80	71	65	60	52	49	59	51	54	54	53	64	84	91	95	94	49	100	77.5					
Aug 8	94	93	96	96	98	98	96	85	73	60	51	53	53	47	49	43	43	47	53	58	61	77	81	82	43	98	70.3					
Aug 9	85	88	88	87	87	88	82	73	65	60	52	46	44	43	42	42	43	47	50	55	60	71	76	76	42	88	64.6					
Aug 10	80	79	79	80	81	84	79	70	61	54	49	46	42	40	40	39	39	44	51	66	79	72	75	76	39	84	62.7					
Aug 11	76	81	87	89	86	85	83	74	63	54	50	44	42	42	42	39	41	44	52	67	89	83	77	76	39	89	65.3					
Aug 12	82	81	85	88	87	87	81	73	66	64	60	55	50	48	46	45	45	59	62	70	86	87	72	79	45	88	69.1					
Aug 13	78	84	81	79	87	91	89	78	68	63	59	57	60	59	53	50	51	65	72	80	84	86	88	94	50	94	73.2					
Aug 14	98	98	99	100	100	100	100	100	100	98	94	88	83	79	75	74	72	76	81	90	95	96	98	98	72	100	91.3					
Aug 15	100	100	100	100	100	100	100	100	100	97	86	78	76	74	72	67	66	67	72	74	79	83	85	88	88	66	100	85.5				
Aug 16	91	92	95	96	95	95	96	91	79	73	66	63	58	55	53	54	57	62	66	77	82	85	93	98	53	98	78.0					
Aug 17	100	100	100	100	100	100	100	100	100	97	89	83	82	82	82	84	80	82	78	83	91	96	97	99	100	78	100	91.9				
Aug 18	100	100	100	100	100	100	100	100	100	100	88	77	65	58	54	52	58	53	59	77	89	95	97	100	52	100	84.3					
Aug 19	100	100	100	100	99	100	100	100	100	99	97	92	83	73	68	62	70	62	74	74	75	86	61	58	58	58	100	83.0				
Aug 20	60	65	66	67	72	69	69	66	63	59	59	55	53	51	49	54	59	51	59	64	66	84	72	73	49	84	62.7					
Aug 21	73	79	81	83	84	92	99	100	100	98	93	91	83	77	77	79	79	80	81	84	84	87	89	89	73	100	85.9					
Aug 22	92	93	92	98	100	100	100	90	81	80	74	69	64	60	56	53	53	54	61	71	80	83	84	80	53	100	77.8					
Aug 23	84	89	92	92	92	92	88	82	67	59	50	43	37	32	29	29	29	30	33	40	57	73	76	77	29	92	61.3					
Aug 24	82	88	95	94	91	90	90	97	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	82	100	97.0					
Aug 25	100	100	100	100	100	100	100	100	100	94	84	80	70	58	52	46	43	41	46	72	88	84	77	81	41	100	79.8					
Aug 26	89	90	84	83	89	83	86	79	72	72	65	59	51	47	41	39	41	44	59	75	88	84	86	86	39	90	70.5					
Aug 27	84	84	86	87	89	92	92	95	95	90	76	71	72	69	63	62	67	73	80	98	100	97	98	98	62	100	84.1					
Aug 28	99	100	99	98	97	95	95	93	81	69	58	48	45	38	36	34	37	37	41	59	69	67	66	68	34	100	67.9					
Aug 29	68	70	78	81	82	84	83	75	66	59	54	49	52	55	61	72	69	69	70	91	96	95	99	100	49	100	74.1					
Aug 30	100	99	98	96	99	91	88	83	69	69	72	64	58	52	51	53	55	61	64	77	86	88	94	91	51	100	77.4					
Aug 31	91	97	95	99	100	99	99	92	80	65	57	46	42	42	44	45	45	45	48	69	83	83	74	74	42	100	71.4					
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100								
Diurnal Average	88.9	90.7	92.0	92.9	93.8	93.6	92.5	88.1	81.7	76.0	70.0	64.8	60.7	57.5	55.7	55.0	56.0	59.0	64.6	75.0	83.0	84.8	85.1	86.5								
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



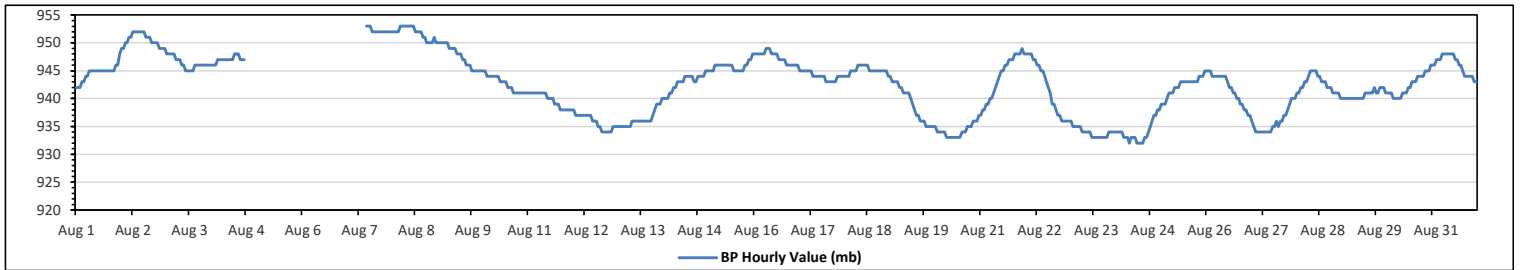
Peace River Area Monitoring Program

986-C Station - August 2024

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	953	mb	on Aug 7 at hr 10	Hours in Service:	744																											
Maximum Daily Value:	952	mb	on Aug 8	Hours of Data:	680																											
Minimum Hourly Value:	932	mb	on Aug 5 at hr 7	Hours of Missing Data:	64																											
Minimum Daily Value:	934	mb	on Aug 23	Hours of Calibration:	0																											
Monthly Average:	943	mb		Operational Uptime:	91.4																											
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average					
Aug 1	942	942	942	943	943	944	944	945	945	945	945	945	945	945	945	945	945	945	945	945	945	946	946	948	942	948	945					
Aug 2	949	949	950	950	951	951	952	952	952	952	952	952	951	951	951	950	950	950	950	950	949	949	949	949	949	952	951					
Aug 3	948	948	948	948	948	947	947	947	946	946	945	945	945	945	945	946	946	946	946	946	946	946	946	946	945	948	946					
Aug 4	946	946	946	947	947	947	947	947	947	947	947	947	948	948	948	947	947	947	X	X	X	X	X	X	946	948	947					
Aug 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	0	0	NA					
Aug 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	0	0	NA					
Aug 7	X	X	X	X	X	X	X	X	X	X	953	953	953	952	952	952	952	952	952	952	952	952	952	952	952	953	NA					
Aug 8	952	952	952	952	953	953	953	953	953	953	953	953	952	952	952	952	951	951	950	950	950	950	951	950	950	953	952					
Aug 9	950	950	950	950	950	950	949	949	949	949	948	948	948	947	947	946	946	945	945	945	945	945	945	945	945	950	948					
Aug 10	945	945	944	944	944	944	944	944	944	943	943	943	943	942	942	942	941	941	941	941	941	941	941	941	941	945	943					
Aug 11	941	941	941	941	941	941	941	941	941	941	940	940	940	940	939	939	939	939	938	938	938	938	938	938	938	941	940					
Aug 12	938	937	937	937	937	937	937	937	937	937	936	936	936	935	935	934	934	934	934	934	934	934	935	935	935	938	936					
Aug 13	935	935	935	935	935	935	935	936	936	936	936	936	936	936	936	936	936	936	936	937	938	939	939	939	940	935	940					
Aug 14	940	940	940	941	941	942	942	943	943	943	943	944	944	944	944	944	943	943	944	944	944	944	945	945	945	940	943					
Aug 15	945	945	945	946	946	946	946	946	946	946	946	946	946	945	945	945	945	945	945	946	946	947	947	948	945	948	946					
Aug 16	948	948	948	948	948	948	949	949	949	949	948	948	948	947	947	947	947	946	946	946	946	946	946	946	946	949	947					
Aug 17	945	945	945	945	945	945	945	944	944	944	944	944	944	944	943	943	943	943	943	943	944	944	944	944	943	945	944					
Aug 18	944	944	944	945	945	945	946	946	946	946	946	946	946	945	945	945	945	945	945	945	945	945	945	944	944	946	945					
Aug 19	944	943	943	943	943	942	942	941	941	941	941	940	939	938	937	937	936	936	936	936	935	935	935	935	935	935	944	939				
Aug 20	935	934	934	934	934	934	933	933	933	933	933	933	933	933	934	934	934	935	935	935	936	936	936	937	933	937	934					
Aug 21	937	938	938	939	939	940	940	941	942	943	944	945	945	946	946	947	947	947	948	948	948	949	948	937	949	944	944					
Aug 22	948	948	948	948	947	947	946	946	945	945	944	943	942	941	939	939	938	937	937	936	936	936	936	936	936	948	942					
Aug 23	936	935	935	935	935	935	934	934	934	934	934	933	933	933	933	933	933	933	933	933	934	934	934	934	933	936	934					
Aug 24	934	934	934	934	933	933	933	932	933	933	933	932	932	932	932	933	933	934	935	936	937	937	938	938	932	938	934					
Aug 25	939	939	939	940	941	941	941	942	942	942	943	943	943	943	943	943	943	943	943	943	944	944	944	945	939	945	942					
Aug 26	945	945	945	944	944	944	944	944	944	944	944	943	942	942	941	941	940	940	939	939	938	938	937	937	937	945	942					
Aug 27	936	935	934	934	934	934	934	934	934	934	934	935	935	936	935	936	936	937	937	938	939	940	940	940	934	940	936					
Aug 28	941	941	942	942	943	943	944	945	945	945	945	944	944	943	943	943	942	942	942	941	941	941	941	940	940	945	943					
Aug 29	940	940	940	940	940	940	940	940	940	940	940	940	941	941	941	941	941	941	941	941	941	942	942	942	941	940	942	941				
Aug 30	941	941	941	940	940	940	940	940	941	941	941	942	942	943	943	943	944	944	944	944	945	945	945	946	940	946	942					
Aug 31	946	946	947	947	947	948	948	948	948	948	948	948	947	947	946	946	945	944	944	944	944	944	943	943	943	948	946					
Diurnal Maximum	952	952	952	952	953	953	953	953	953	953	953	953	953	952	952	952	952	952	952	952	952	952	952	952	952	952	953					
Diurnal Average	943	942	942	943	943	943	943	943	943	943	943	943	943	942	942	942	942	942	942	942	942	942	942	942	942	943						
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



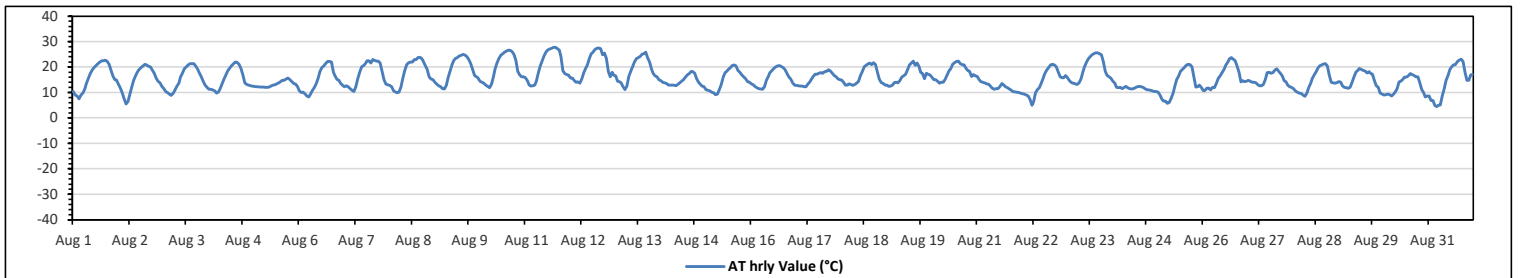
Peace River Area Monitoring Program

986-C Station - August 2024

Summary of Hourly Averages

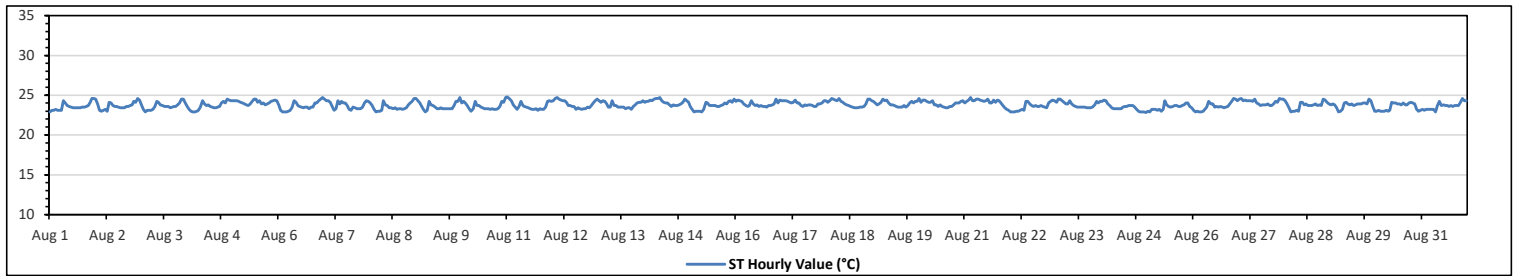
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	27.8	°C	on Aug 11 at hr 15	Hours in Service:	744																																																		
Maximum Daily Value:	20.5	°C	on Aug 11	Hours of Data:	744																																																		
Minimum Hourly Value:	4.5	°C	on Aug 31 at hr 4	Hours of Missing Data:	0																																																		
Minimum Daily Value:	11.8	°C	on Aug 24	Hours of Calibration:	0																																																		
Monthly Average:	15.9	°C		Operational Uptime:	100.0																																																		
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average																												
Aug 1	10.4	9.1	8.7	7.5	9.1	9.8	11.4	13.5	15.6	17.4	18.8	19.9	20.6	21.3	21.9	22.5	22.5	22.7	22.2	21.1	18.7	16.4	15	14.9	7.5	22.7	16.3																												
Aug 2	13.3	11.8	9.9	7.5	5.5	6.5	9.4	12.3	14.9	16.7	18.2	19	19.9	20.4	21.1	20.8	20.3	20.1	18.8	17.5	15.7	14.4	13.8	12.4	5.5	21.1	15.0																												
Aug 3	11.5	10.5	9.9	9.3	8.9	9.6	11	12.5	13.7	16	17.6	19.3	20.1	20.8	21.3	21.3	21.3	20.3	19	17.7	16.1	14.4	12.9	12	8.9	21.3	15.3																												
Aug 4	11.3	11.3	11	10.6	9.8	10.3	11.5	13.4	15.3	17	18.6	19.5	20.4	21.2	22	21.8	21.1	19.4	16.9	13.8	13.2	12.9	12.6	12.5	9.8	22.0	15.3																												
Aug 5	12.4	12.3	12.3	12.1	12.1	12.1	12	12	12.1	12.5	12.9	13.1	13.4	13.8	14.3	14.7	14.8	15.3	15.7	15.1	14.3	13.5	13.3	12.3	12.0	15.7	13.3																												
Aug 6	10.7	10	10.2	9.5	8.7	8.3	9.5	10.7	11.9	13.4	15.6	18.3	19.9	20.4	21.4	22.3	22.3	22	17.9	16.5	15.2	14.7	13.6	12.9	8.3	22.3	14.8																												
Aug 7	12.3	12.6	12.2	11.6	10.9	10.4	12.2	15.4	18	20	20.6	21.2	22.5	22.5	21.6	23	22.6	22.4	22.4	21.5	18.3	15	13.3	13.1	10.4	23.0	17.3																												
Aug 8	12.8	12.2	10.6	10.3	9.9	10.2	12.1	15.7	18.7	21	21.7	21.9	21.9	23	22.9	23.8	23.9	23.3	22.2	20.6	19.1	16.1	15.3	15	9.9	23.9	17.7																												
Aug 9	14.1	13.3	12.7	12.2	11.6	11.4	13	15.7	18.2	20.7	22.6	23.3	23.8	24.4	24.6	25	24.7	24.1	23	21.3	19.1	16.7	16.1	15.7	11.4	25.0	18.6																												
Aug 10	14.5	14	13.6	12.9	12.4	11.9	13.3	16.1	19.2	21.5	23.4	24.6	25.3	25.9	26.3	26.6	26.6	26.1	25	22.7	18.3	17	16.1	16.1	11.9	26.6	19.6																												
Aug 11	15.8	14.6	13	12.5	12.7	12.9	14.4	17.6	20.3	22.4	24.3	25.9	26.7	27.1	27.4	27.8	27.3	26.6	24.1	18.6	17.4	17.1	16.8	12.5	27.8	20.5																													
Aug 12	15.7	15.7	14.7	14.1	14.2	13.6	15.3	17.7	19.5	21	23.1	25.1	25.9	26.8	27.4	27.5	27.2	24.9	25.5	23.3	18.3	16.2	17.9	16.8	13.6	27.5	20.3																												
Aug 13	16.5	14.4	14.3	13.8	12.2	11.2	12.5	16.3	18.4	20.2	22.1	23.3	23.7	24.2	25.1	25.3	25.8	23.6	22	19.2	17.5	16.6	16.1	15.1	11.2	25.8	18.7																												
Aug 14	14.6	14.1	13.8	13.5	13	12.9	12.9	12.9	12.6	13.2	13.8	14.4	15	16	16.9	17.4	18.4	18.2	17.6	15.5	14	13.2	12.5	12.3	12.3	18.4	14.5																												
Aug 15	11.2	10.9	10.6	10.2	9.9	9.2	9.4	11.2	13.2	16	17.8	18.3	19.2	19.9	20.6	20.8	20.4	18.7	17.9	17	16.2	15.4	14.3	14.1	9.2	20.8	15.1																												
Aug 16	13.4	13.1	12.4	11.9	11.5	11.4	11.3	12.3	14.7	16.3	17.8	18.6	19.4	20.1	20.4	20.6	20.2	19.8	19.1	17.5	16.2	15.3	13.8	12.9	11.3	20.6	15.8																												
Aug 17	12.8	12.6	12.5	12.5	12.2	12.3	13.4	14.1	15.3	16.4	17.2	17.2	17.5	17.8	17.6	18.2	18.3	18.9	18.5	17.5	16.7	16.1	15.5	15	12.2	18.9	15.7																												
Aug 18	14.9	14	13	12.9	13.4	13.2	12.8	13.2	13.7	14.5	16.7	18.3	20.2	20.7	21.2	21.6	21	21.7	21	17.9	15.2	13.9	13.5	12.9	12.8	21.7	16.3																												
Aug 19	13	12.4	12.5	12.9	13.9	14	13.8	14.6	16	16.6	17.2	18.9	20.9	21.6	22.4	20.7	21.5	20.2	17.9	17.4	15.4	17.5	17.2	16.9	12.4	22.4	16.9																												
Aug 20	16	15.1	15	14.5	13.6	14	14.1	15.3	17	18.6	19.3	21.1	21.7	22.3	22.4	21.3	21	20.9	19.4	18.7	18.3	16.3	17.1	16.6	13.6	22.4	17.9																												
Aug 21	16.3	15	14.3	14	13.8	13.4	13.3	12.5	11.7	11.3	11.5	11.6	12.4	13.5	13.1	12.2	11.9	11.4	11	10.5	10.3	10.2	10	9.8	9.8	16.3	12.3																												
Aug 22	9.5	9.3	9	8.6	7.2	5	6.4	9.9	11.2	11.9	13.7	15.7	17.4	18.8	19.9	20.9	21.1	20.9	20	18.1	16.1	15.8	15.9	16.7	5.0	21.1	14.1																												
Aug 23	15.8	14.6	13.9	13.7	13.4	13.2	13.8	15.3	18.1	20	21.8	23.2	24	24.9	25.3	25.6	25.6	25.3	24.9	22.1	18.3	16.7	16.1	15.6	13.2	25.6	19.2																												
Aug 24	14.5	13.7	12	11.9	12	11.6	11.9	12.4	11.9	11.5	11.4	11.5	11.9	12.2	12.4	12.2	12	11.5	11.1	11	10.9	10.6	10.5	10.4	10.4	14.5	11.8																												
Aug 25	10.2	9.1	7.4	6.6	6.6	5.7	6.2	7.8	9.8	12.8	15.1	16.4	18.3	19	19.9	20.7	21.1	21	20.1	16	12.1	12.2	13	12	5.7	21.1	13.3																												
Aug 26	10.7	10.7	11.7	11.8	11	12	11.9	13.5	15.6	16.5	17.8	19	20.8	22	23.2	23.7	23.1	22.5	20.3	17.9	14.2	14.6	14.3	14.4	10.7	23.7	16.4																												
Aug 27	14.8	14.5	14.1	14.1	13.8	13.1	12.7	12.6	13.2	15.1	17.8	17.9	17.5	17.8	18.8	19.3	18.4	17.4	16.5	14.6	14.2	12.9	12.3	12	12.0	19.3	15.2																												
Aug 28	11.6	10.6	10.1	9.7	9.6	9.1	8.5	9.8	12	13.7	15.6	17	18.2	19.8	20.4	20.8	21.2	21.3	20.5	16.8	14.1	13.8	13.7	13.9	8.5	21.3	14.7																												
Aug 29	14.3	14.1	12.6	12	11.9	11.7	12	13.9	16	18	18.7	19.4	19	18.7	18.5	17.7	18.2	17.6	17.2	14.6	12.7	12	9.7	9.4	9.4	19.4	15.0																												
Aug 30	9	9.2	9.3	9.2	8.6	9.4	10.1	11.6	14.2	14.4	15	16	16	16.6	17.4	17.1	16.7	16.1	16.1	13.8	11.2	9.9	8.3	8.6	8.3	17.4	12.7																												
Aug 31	8.6	6.8	6.8	4.9	4.5	5	5.1	8.7	11.4	14.8	16.7	19	20.2	20.9	21	22.1	22.7	23.1	22.2	18.1	14.7	14.7	17	17.1	4.5	23.1	14.4																												
Diurnal Maximum	16.5	15.7	15.0	14.5	14.2	14.0	15.3	17.7	20.3	22.4	24.3	25.9	26.7	27.1	27.4	27.8	27.8	27.3	26.6	24.1	19.1	17.5	17.9	17.1																															
Diurnal Average	13.0	12.3	11.7	11.3	10.9	10.8	11.5	13.2	14.9	16.5	17.9	19.0	19.8	20.5	20.9	21.1	21.1	20.6	19.6	17.7	15.6	14.6	14.1	13.7																															
C	Monthly Calibration													S	Daily Zero-Span Check													Q	Quality Assurance																										
K	Collection Error													ND	No Data (Machine Not in Service)													Y	Routine Maintenance													P	Power Failure												
X	Invalid Data (Equipment Malfunction /Recovery)													NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																																								
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																																							
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																																							



Peace River Area Monitoring Program
986-C Station - August 2024
Summary of Hourly Averages
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	24.8	°C	on Aug 11 at hr 0	Hours in Service:	744																									
Maximum Daily Value:	24.1	°C	on Aug 27	Hours of Data:	744																									
Minimum Hourly Value:	22.8	°C	on Aug 24 at hr 23	Hours of Missing Data:	0																									
Minimum Daily Value:	23.5	°C	on Aug 24	Hours of Calibration:	0																									
Monthly Average:	23.8	°C		Operational Uptime:	100.0																									
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average			
Aug 1	22.9	23.1	23.1	23.2	23.1	23.1	23.1	23.4	24.0	23.7	23.6	23.5	23.4	23.4	23.4	23.4	23.6	23.5	23.5	23.6	23.7	24.1	24.6	24.6	22.9	24.6	23.6			
Aug 2	24.5	23.9	23.1	23.0	23.1	23.2	23.0	24.1	24.0	23.7	23.6	23.6	23.5	23.4	23.4	23.4	23.6	23.6	23.7	23.8	24.2	24.1	24.6	24.4	23.0	24.6	23.7			
Aug 3	23.8	23.2	22.9	23.1	23.1	23.1	23.2	23.6	24.2	24.1	23.8	23.7	23.6	23.6	23.6	23.4	23.5	23.6	23.6	23.8	24.0	24.5	24.5	24.0	22.9	24.5	23.6			
Aug 4	23.6	23.2	23.0	22.9	22.9	23.0	23.1	23.5	24.3	23.9	23.7	23.8	23.6	23.5	23.4	23.4	23.5	23.6	24.0	24.2	24.0	24.5	24.4	24.3	22.9	24.5	23.6			
Aug 5	24.3	24.3	24.3	24.2	24.1	24.0	23.9	23.8	23.7	23.9	24.2	24.5	24.5	24.1	24.3	23.9	24.0	23.8	23.9	24.0	24.2	24.3	24.4	24.3	23.7	24.5	24.1			
Aug 6	23.8	23.1	22.9	22.9	22.9	23.0	23.1	23.5	24.3	24.1	23.7	23.6	23.5	23.4	23.5	23.5	23.3	23.5	23.5	24.0	24.0	24.3	24.5	24.7	22.9	24.7	23.6			
Aug 7	24.5	24.3	24.3	24.1	23.6	23.1	23.3	24.3	23.9	24.2	24.0	24.0	23.7	23.2	23.1	23.5	23.4	23.3	23.3	23.3	23.5	24.0	24.3	24.2	23.1	24.5	23.8			
Aug 8	24.0	23.7	23.2	22.9	23.0	23.0	23.1	24.3	23.8	23.7	23.4	23.4	23.3	23.4	23.2	23.3	23.3	23.2	23.3	23.4	23.8	24.0	24.2	24.6	22.9	24.6	23.5			
Aug 9	24.6	24.3	24.0	23.6	23.2	22.9	23.1	24.2	23.8	23.7	23.5	23.3	23.3	23.4	23.3	23.3	23.3	23.3	23.3	23.7	24.2	24.2	24.7	22.9	24.7	23.6				
Aug 10	24.0	24.2	24.0	23.7	23.3	23.0	23.3	24.2	23.7	23.7	23.5	23.4	23.3	23.3	23.3	23.2	23.3	23.2	23.2	23.3	23.6	24.2	24.1	24.7	23.0	24.7	23.6			
Aug 11	24.8	24.6	24.3	23.8	23.5	23.2	23.6	24.2	23.7	23.6	23.5	23.4	23.3	23.2	23.2	23.3	23.1	23.3	23.2	23.2	23.5	24.2	24.3	24.2	23.1	24.8	23.7			
Aug 12	24.3	24.6	24.7	24.5	24.4	24.3	24.3	24.1	23.7	23.7	23.6	23.6	23.2	23.2	23.3	23.2	23.3	23.3	23.5	23.4	23.7	24.0	24.3	24.5	23.2	24.7	23.9			
Aug 13	24.3	24.1	24.3	24.2	23.9	23.5	23.5	24.3	23.7	23.7	23.5	23.5	23.5	23.5	23.3	23.4	23.4	23.2	23.6	23.8	24.0	24.1	24.1	24.3	23.2	24.3	23.8			
Aug 14	24.1	24.2	24.2	24.4	24.3	24.5	24.6	24.6	24.7	24.3	24.1	24.0	24.0	23.8	23.6	23.8	23.7	23.7	23.8	23.9	24.1	24.5	24.3	24.1	23.6	24.7	24.1			
Aug 15	23.6	23.2	22.9	23.0	23.0	23.0	22.9	23.2	24.1	24.0	23.7	23.7	23.7	23.7	23.6	23.6	23.7	23.8	24.0	23.9	24.2	24.3	24.1	24.5	22.9	24.5	23.6			
Aug 16	24.2	24.4	24.3	24.2	23.9	23.7	23.6	23.7	24.3	23.9	23.7	23.8	23.6	23.7	23.6	23.6	23.5	23.7	23.7	23.7	23.8	23.9	24.5	24.0	24.4	23.5	24.5	23.9		
Aug 17	24.3	24.3	24.3	24.2	24.1	24.0	24.1	24.4	24.0	24.0	23.7	23.6	23.8	23.7	23.8	23.8	23.7	23.6	23.6	23.9	23.9	24.0	24.3	24.3	23.6	24.4	24.0			
Aug 18	24.1	24.3	24.6	24.5	24.4	24.3	24.6	24.2	24.1	23.9	23.8	23.7	23.6	23.5	23.4	23.4	23.4	23.5	23.5	23.6	23.9	24.5	24.5	24.3	23.4	24.6	24.0			
Aug 19	24.2	24.0	23.8	23.9	24.1	24.5	24.3	24.4	24.0	23.8	23.8	23.7	23.6	23.5	23.5	23.5	23.7	23.5	23.7	24.0	24.2	24.0	24.2	24.2	23.5	24.5	23.9			
Aug 20	24.6	24.1	24.4	24.4	24.2	24.1	24.1	24.3	23.8	23.8	23.6	23.8	23.6	23.5	23.4	23.4	23.6	23.6	23.8	24.0	24.0	24.0	24.2	24.3	23.4	24.6	23.9			
Aug 21	24.0	24.2	24.4	24.7	24.3	24.3	24.5	24.5	24.4	24.3	24.2	24.3	24.5	24.0	24.0	24.4	24.1	24.4	24.3	24.0	23.7	23.4	23.2	23.1	23.1	24.7	24.1			
Aug 22	22.9	22.9	22.9	23.0	23.0	23.1	23.2	23.1	24.2	24.2	23.9	23.7	23.6	23.7	23.6	23.6	23.7	23.6	23.5	23.4	24.0	24.2	24.4	24.3	22.9	24.4	23.6			
Aug 23	24.1	24.5	24.5	24.3	24.1	23.9	23.9	24.3	23.9	23.7	23.6	23.5	23.5	23.5	23.5	23.5	23.4	23.4	23.4	23.5	23.8	24.2	24.0	24.2	23.4	24.5	23.8			
Aug 24	24.2	24.4	24.3	23.9	23.7	23.4	23.3	23.3	23.3	23.3	23.3	23.5	23.6	23.6	23.7	23.7	23.7	23.5	23.2	23.0	22.9	22.9	22.9	22.8	22.8	24.4	23.5			
Aug 25	23.0	22.9	23.2	23.2	23.2	23.1	23.2	23.0	23.2	24.3	23.8	23.6	23.5	23.6	23.7	23.7	23.6	23.6	23.7	23.8	24.0	24.0	23.6	23.4	22.9	24.3	23.5			
Aug 26	23.1	22.9	23.0	22.9	22.9	23.0	23.2	23.5	24.2	23.9	23.9	23.5	23.6	23.5	23.6	23.5	23.4	23.5	23.6	23.9	24.2	24.6	24.5	24.3	22.9	24.6	23.6			
Aug 27	24.5	24.6	24.3	24.4	24.3	24.3	24.3	24.2	24.5	24.0	23.9	23.7	23.8	23.8	23.8	23.9	23.7	23.7	23.9	24.2	24.1	24.6	24.5	24.5	23.7	24.6	24.1			
Aug 28	24.3	23.9	23.4	22.9	23.0	23.0	23.1	23.0	24.1	24.1	23.8	23.9	23.7	23.7	23.7	23.8	23.9	23.7	23.8	23.7	24.5	24.4	24.1	23.9	22.9	24.5	23.7			
Aug 29	23.8	23.9	23.8	23.4	22.9	23.0	23.2	24.0	24.1	23.9	23.8	23.9	23.7	23.8	23.9	23.9	23.9	24.0	24.0	23.9	24.5	24.3	23.6	23.0	22.9	24.5	23.8			
Aug 30	23.0	23.1	23.0	23.0	23.0	23.1	23.0	23.1	24.1	24.0	24.0	23.9	23.9	23.8	24.0	23.8	23.8	24.0	24.1	24.0	23.9	23.2	23.0	23.1	23.0	24.1	23.5			
Aug 31	23.2	23.1	23.2	23.2	23.2	23.2	23.2	22.9	23.7	24.2	23.7	23.8	23.7	23.7	23.6	23.7	23.6	23.7	23.7	23.7	24.1	24.6	24.3	24.3	22.9	24.6	23.6			
Diurnal Maximum	24.8	24.6	24.7	24.7	24.4	24.5	24.6	24.6	24.7	24.3	24.2	24.5	24.5	24.1	24.3	24.4	24.1	24.4	24.3	24.2	24.5	24.6	24.6	24.7						
Diurnal Average	24.0	23.9	23.8	23.7	23.5	23.5	23.5	23.9	24.0	23.9	23.7	23.7	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.7	23.9	24.2	24.1	24.1						
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance							
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance					P	Power Failure	
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																														
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																														



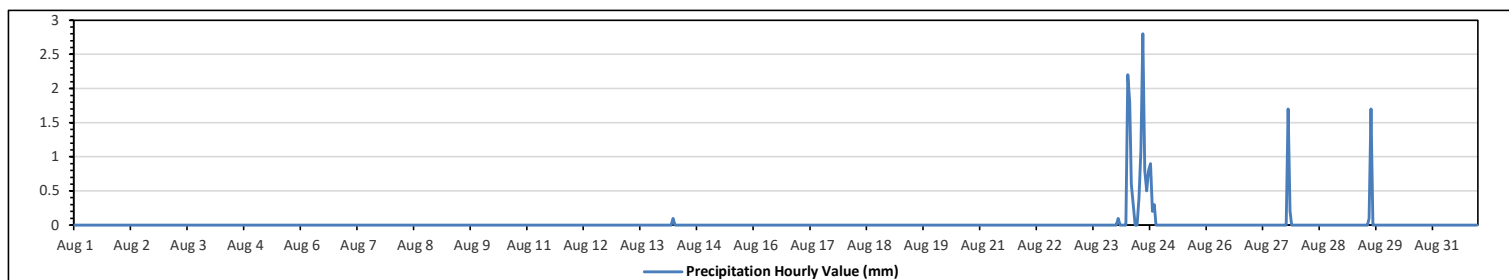
Peace River Area Monitoring Program

986-C Station - August 2024

Summary of Hourly Averages

PRECIPITATION in mm

Maximum Hourly Value:	2.8	mm	on Aug 24 at hr 14	Hours in Service:	744																						
Maximum Daily Value:	12.8	mm	on Aug 24	Hours of Data:	743																						
Minimum Hourly Value:	0.0	mm	on Aug 1 at hr 0	Hours of Missing Data:	1																						
Minimum Daily Value:	0.0	mm	on Aug 1	Hours of Calibration:	0																						
Monthly Total:	16.6	mm		Operational Uptime:	99.9																						
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Total	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Aug 14	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1	
Aug 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	
Aug 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Aug 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	
Aug 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	
Aug 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Aug 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	
Aug 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	
Aug 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NRM	0	0	0	0	0	0.0	0.0	0.0	
Aug 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	
Aug 24	0	0.1	0	0	0	0	2.2	1.8	0.6	0.3	0	0	0.4	1.1	2.8	0.8	0.5	0.8	0.9	0.2	0.3	0	0	0	0.0	2.8	12.8
Aug 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	
Aug 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	
Aug 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.7	0.2	0	0	0	0.0	1.7	1.9	
Aug 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	
Aug 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.7	0	0	0	0	0	0	0	0	0.0	1.7	1.8	
Aug 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	
Aug 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	
Diurnal Maximum	0.0	0.1	0.0	0.0	0.0	0.1	2.2	1.8	0.6	0.3	0.0	0.0	0.4	1.1	2.8	1.7	0.5	0.8	0.9	1.7	0.3	0.0	0.0	0.0			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0			
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance										
K	Collection Error							ND	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure		
X	Invalid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											



Peace River Area Monitoring Program

986-C Station - August 2024

Summary of Hourly Averages

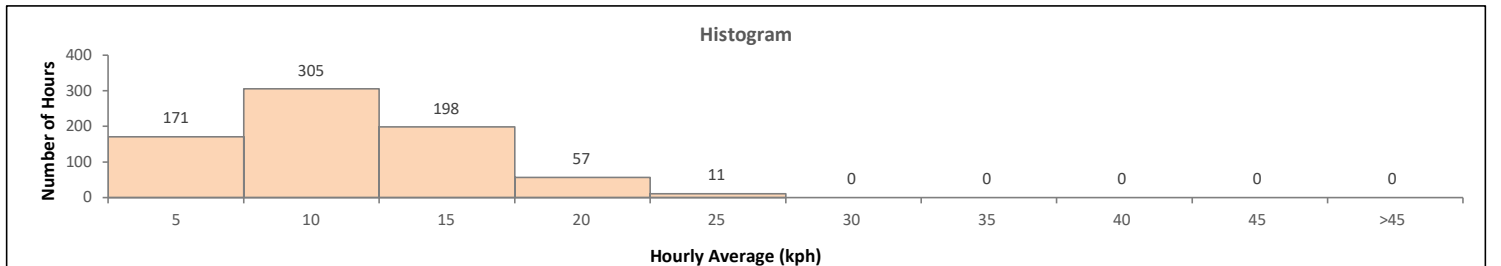
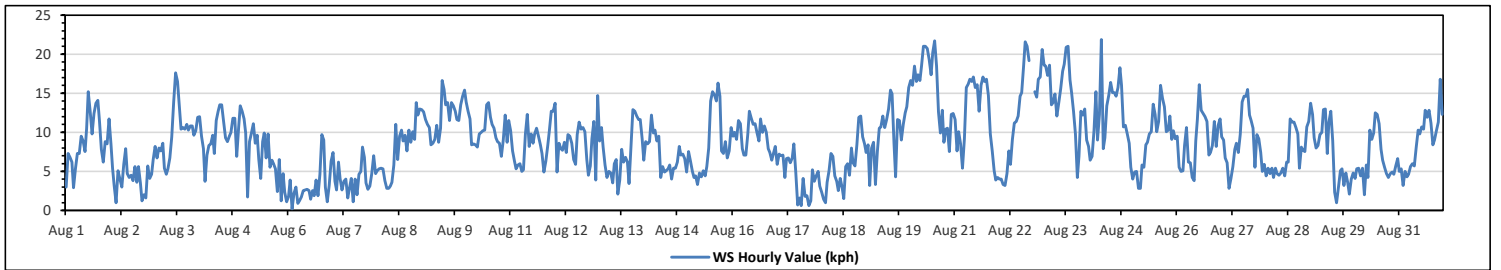
VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	21.9	kph	on Aug 24 at hr 7	Hours in Service:	744
Maximum Daily Value:	15.7	kph	on Aug 20	Hours of Data:	742
Minimum Hourly Value:	0.2	kph	on Aug 6 at hr 2	Hours of Missing Data:	0
Minimum Daily Value:	3.1	kph	on Aug 6	Hours of Calibration:	2
Monthly Average:	2.3	kph		Operational Uptime:	100.0

Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)													10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 1	3.0	7.3	6.8	6.2	2.9	5.3	7.3	7.3	9.5	8.9	7.5	10.5	15.2	12.7	9.8	12.4	13.7	14.1	11.5	7.8	6.2	8.8	8.5	11.7	2.9	15.2	9.0													
Aug 2	8.5	5.4	3.2	1.0	5.1	4.0	3.0	5.9	7.9	4.7	4.2	4.5	3.8	5.6	3.6	5.6	3.5	1.2	2.0	1.6	5.7	4.1	4.6	6.5	1.0	8.5	4.4													
Aug 3	8.2	6.7	8.0	7.6	8.6	5.4	4.6	5.3	6.7	9.4	13.9	17.6	16.5	13.7	10.4	10.6	10.4	11.0	10.3	10.8	10.8	9.6	10.2	11.9	4.6	17.6	9.9													
Aug 4	12.0	9.5	7.9	3.7	7.1	8.3	8.5	9.6	7.3	11.5	12.7	13.5	13.5	11.4	9.3	8.8	9.5	10.0	11.8	11.8	6.9	10.6	13.4	12.7	3.7	13.5	10.1													
Aug 5	11.7	9.9	1.7	8.8	9.9	11.1	8.6	9.6	6.5	4.1	8.8	9.9	6.7	9.8	5.5	6.4	6.0	5.3	2.4	6.5	1.2	4.7	2.3	1.1	1.1	11.7	6.6													
Aug 6	1.8	3.9	0.2	2.2	3.0	0.9	1.2	1.7	2.5	2.6	2.7	2.5	1.4	2.5	1.9	3.9	1.9	4.6	9.7	9.0	3.0	1.1	3.2	6.3	0.2	9.7	3.1													
Aug 7	7.4	3.7	2.6	6.2	4.1	2.6	3.7	4.0	1.6	3.0	4.1	1.1	4.0	2.0	4.6	5.0	8.1	6.8	3.5	2.7	3.1	4.7	7.0	4.7	1.1	8.1	4.2													
Aug 8	5.1	5.3	5.4	5.3	3.8	2.8	2.8	3.1	3.6	5.8	11.0	6.5	9.5	10.3	8.9	9.6	7.6	10.3	8.7	10.1	9.1	13.8	12.2	13.0	2.8	13.8	7.7													
Aug 9	12.9	12.6	11.6	11.0	10.6	8.4	8.6	9.1	10.9	8.7	10.5	16.6	15.5	13.5	13.8	11.5	13.8	13.4	12.7	11.6	11.5	13.5	14.6	15.4	8.4	16.6	12.2													
Aug 10	13.9	12.7	11.7	8.4	8.5	8.4	8.1	9.8	10.0	10.2	10.3	13.5	13.8	11.9	11.0	10.5	9.3	8.8	8.6	6.9	9.0	12.2	8.7	11.5	6.9	13.9	10.3													
Aug 11	10.2	7.6	6.3	5.3	5.8	6.0	5.0	5.2	9.7	12.3	8.2	9.8	8.6	9.8	10.5	9.5	8.4	7.3	4.9	6.3	8.3	10.2	12.7	12.7	4.9	12.7	8.4													
Aug 12	13.7	4.9	8.6	7.9	7.7	8.7	7.4	9.7	9.5	8.6	6.5	5.9	9.7	11.3	10.4	10.6	10.1	6.5	4.5	5.7	9.2	11.4	3.9	14.7	3.9	14.7	8.6													
Aug 13	8.9	10.6	8.1	5.8	4.2	5.0	4.8	3.5	6.0	6.5	2.1	3.9	7.8	6.2	6.8	6.2	3.4	8.1	12.9	12.7	12.1	11.6	11.6	9.2	2.1	12.9	7.4													
Aug 14	6.4	8.8	8.5	8.8	12.2	9.9	10.3	8.9	9.5	4.2	5.6	4.9	5.1	5.3	5.8	4.0	5.4	5.4	6.2	8.2	7.1	7.2	6.6	4.9	4.0	12.2	7.1													
Aug 15	7.5	6.3	5.0	4.2	4.4	3.3	4.8	4.3	5.1	4.4	5.6	8.0	14.0	15.2	14.8	14.0	16.3	14.6	7.6	7.3	8.8	6.7	7.6	10.6	3.3	16.3	8.4													
Aug 16	9.5	10.0	9.1	11.5	11.1	7.9	7.1	7.1	9.7	12.7	11.8	11.0	11.1	9.9	8.9	11.7	10.0	10.8	10.0	7.9	7.4	6.4	7.4	8.2	6.4	12.7	9.5													
Aug 17	5.9	7.2	7.0	7.1	4.2	6.6	6.7	6.1	6.7	8.5	4.9	0.7	1.6	0.6	4.1	1.8	1.9	0.6	1.2	5.2	3.7	4.4	5.0	3.1	0.6	8.5	4.4													
Aug 18	2.3	1.4	1.0	3.6	5.1	7.3	6.9	4.4	3.7	2.5	4.1	2.9	1.5	5.6	6.0	4.5	8.0	6.1	5.7	8.4	11.9	12.1	9.4	8.5	1.0	12.1	5.5													
Aug 19	7.4	8.4	3.2	8.0	8.7	3.3	7.5	10.5	10.7	12.1	10.6	11.6	13.0	15.4	14.9	8.6	4.3	11.6	11.5	9.0	11.0	12.5	13.3	15.7	3.2	15.7	10.1													
Aug 20	16.6	16.0	18.5	16.5	17.4	16.6	18.5	21.0	21.0	20.7	19.3	17.4	20.2	21.7	18.5	12.6	9.9	12.8	8.7	10.4	10.5	7.5	12.3	12.4	7.5	21.7	15.7													
Aug 21	11.6	7.6	10.1	8.5	5.4	9.2	15.7	16.2	16.8	16.5	17.1	15.7	16.1	12.7	16.0	17.1	16.5	16.8	14.7	9.8	7.6	5.1	3.9	4.2	3.9	17.1	12.1													
Aug 22	4.0	4.0	3.3	3.2	4.7	7.6	5.9	9.1	11.2	11.4	12.1	14.6	15.1	18.5	21.6	21.0	19.2	C	C	15.2	14.5	16.8	17.1	20.6	3.2	21.6	12.3													
Aug 23	18.6	18.5	17.3	18.6	13.5	13.8	14.9	12.1	13.8	15.6	17.8	18.7	20.9	21.0	16.7	15.1	12.7	9.8	4.2	6.9	12.7	12.2	13.0	9.0	4.2	21.0	14.5													
Aug 24	8.2	6.4	6.9	10.2	15.2	9.0	12.3	21.9	7.9	9.3	13.4	14.7	16.4	15.1	15.1	14.6	15.7	18.3	16.0	10.7	10.9	9.8	8.6	5.5	5.5	21.9	12.2													
Aug 25	4.0	4.9	5.0	2.8	2.8	5.8	5.5	8.4	8.7	9.8	10.1	13.6	12.3	10.1	11.4	16.0	14.4	13.3	10.1	10.3	12.1	9.1	10.2	9.2	2.8	16.0	9.2													
Aug 26	9.5	5.5	5.0	5.1	8.3	10.6	6.2	6.1	4.2	3.8	8.9	11.6	16.1	12.8	12.4	12.0	11.4	7.1	7.4	8.3	11.4	8.2	10.9	11.7	3.8	16.1	8.9													
Aug 27	9.4	9.0	6.7	6.1	2.8	4.1	5.6	7.8	8.6	7.4	9.7	13.9	14.6	14.6	15.5	12.2	11.5	10.5	5.5	9.7	9.2	7.4	5.0	5.9	2.8	15.5	8.9													
Aug 28	4.4	5.4	4.7	5.4	4.2	5.4	4.7	4.5	4.8	5.4	4.4	6.2	6.2	11.7	11.3	11.3	10.6	9.8	5.4	8.1	7.7	7.5	10.7	11.4	4.2	11.7	7.1													
Aug 29	13.7	12.3	9.3	8.0	8.3	9.7	10.0	12.9	13.0	7.3	11.3	12.7	8.9	2.3	1.0	3.0	5.1	5.3	3.2	4.8	3.5	2.1	4.0	4.8	1.0	13.7	7.4													
Aug 30	4.1	5.3	5.4	4.4	5.4	2.0	5.8	4.2	10.3	9.1	9.9	12.5	12.3	11.1	7.8	6.4	5.5	4.7	4.2	4.7	4.9	4.6	5.7	6.6	2.0	12.5	6.5													
Aug 31	5.0	5.3	3.2	5.0	4.0	4.3	4.6	5.6	6.0	5.7	8.1	10.3	9.8	10.7	10.4	12.8	11.9	12.8	11.2	8.4	9.0	10.2	11.3	16.8	12.3	3.2	16.8	8.8												
Diurnal Maximum	18.6	18.5	18.5	18.6	17.4	16.6	18.5	21.9	21.0	20.7	19.3	18.7	20.9	21.7	21.6	21.0	19.2	18.3	16.0	15.2	14.5	16.8	17.1	20.6																
Diurnal Average	8.6	7.8	6.8	7.0	7.1	6.9	7.3	8.2	8.5	8.6	9.3	10.2	11.0	10.8	10.4	9.9	9.6	9.2	7.8	8.3	8.4	8.6	9.0	9.5																

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

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

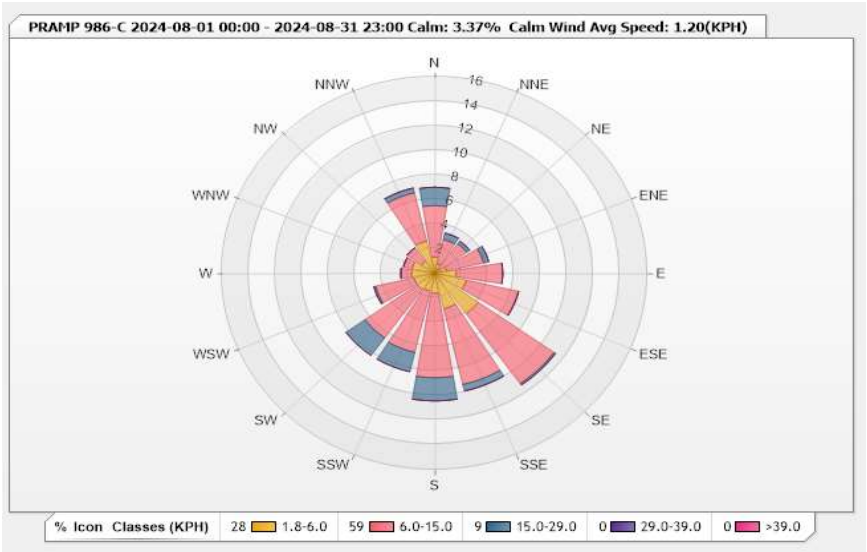


Station: PRAMP 986-C Monitor: WDS [KPH] Monthly: 08-2024

Type: Wind Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm (WS<1.8kph): 3.37% Valid Data: 99.73%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.35	4.18	1.48	0	0	7.01
NNE	0.81	2.02	0.54	0	0	3.37
NE	0.4	2.56	0.27	0	0	3.23
ENE	0.94	2.83	0.4	0	0	4.17
E	1.62	3.5	0	0	0	5.12
ESE	2.43	4.04	0	0	0	6.47
SE	4.04	7.01	0.13	0	0	11.18
SSE	2.96	6.33	0.54	0	0	9.83
S	1.62	6.87	1.89	0	0	10.38
SSW	1.48	5.12	1.62	0	0	8.22
SW	1.62	4.85	1.75	0	0	8.22
WSW	1.62	2.96	0.13	0	0	4.71
W	1.75	0.81	0	0	0	2.56
WNW	1.75	0.67	0	0	0	2.42
NW	1.21	1.35	0	0	0	2.56
NNW	2.7	4.04	0.4	0	0	7.14
Summary	28.3	59.14	9.15	0	0	96.59



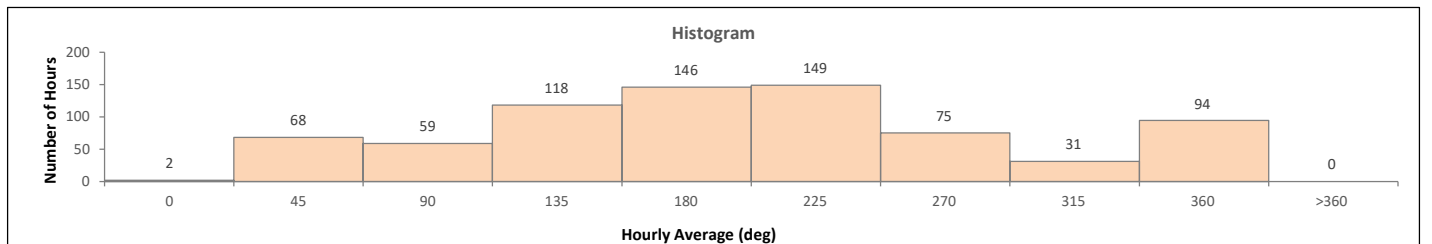
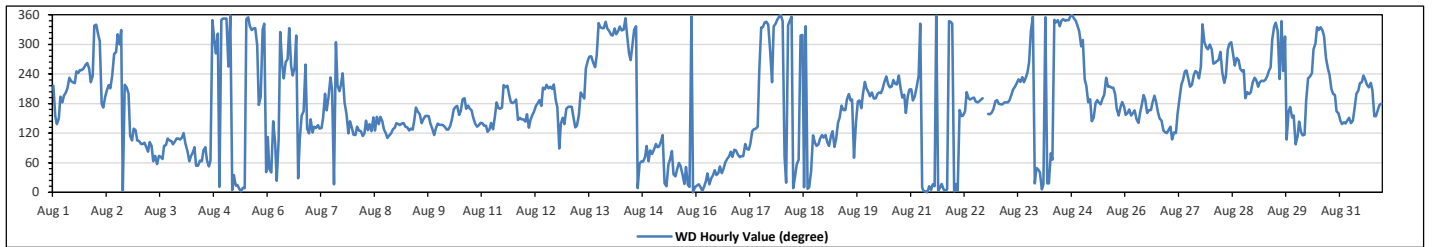
Peace River Area Monitoring Program

986-C Station - August 2024

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:		167 (SSE) degree										Hours in Service: 744																											
												Hours of Data: 742																											
												Hours of Missing Data: 0																											
												Hours of Calibration: 2																											
												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													
Aug 1	SW	SSE	SE	SSE	SSW	S	SSW	SSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	SW	SW	NNW	230	SW													
Aug 2	NNW	NW	NW	S	S	SSW	SSW	SSW	SSW	SW	W	WNW	NW	NNW	NNW	N	SW	SSW	SSW	ESE	ESE	SE	SE	ESE	244	WSW													
Aug 3	ESE	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	E	E	ESE	ESE	ESE	E	ESE	ESE	ESE	ESE	90	E													
Aug 4	ESE	ESE	E	E	ENE	ENE	E	E	NE	NE	ENE	ENE	E	E	ENE	NE	ENE	NNW	NW	W	NW	NNE	N	N	52	NE													
Aug 5	N	N	WSW	N	N	NE	NNE	NNE	N	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW	S	SSW	NNW	NNW	NE	357	N													
Aug 6	ESE	NE	NE	SE	E	NNE	ESE	NW	WSW	SW	W	W	NNW	WSW	SW	WSW	NW	NNE	ESE	SSE	SSE	WSW	SE	ESE	141	SE													
Aug 7	SE	ESE	SE	SE	SE	SE	SE	SSE	SSW	SSE	S	SW	SSW	NNE	WNW	SW	SSW	SW	WSW	S	SSE	ESE	SE	SE	167	SSE													
Aug 8	ESE	ESE	SE	SE	ESE	ESE	ESE	SE	SE	SE	ESE	SSE	SE	SSE	SE	SSE	SE	SE	ESE	ESE	ESE	ESE	SE	SE	129	SE													
Aug 9	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	S	SSE	SSE	SE	SE	SSE	SSE	SSE	SE	SE	SE	SE	SE	142	SE													
Aug 10	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	S	S	SSE	SSE	S	S	SSE	S	SSE	SSE	SE	SE	SE	SE	SE	154	SSE													
Aug 11	SE	SE	SE	ESE	SE	SE	SE	SSE	S	S	SSE	S	SW	SSW	SW	SSW	S	S	S	S	SE	SSE	SE	SE	166	SSE													
Aug 12	SE	SSE	SE	SE	SSE	SSE	S	S	S	S	SSW	SSW	SW	SSW	SSW	SSW	SW	S	S	E	SE	SSE	SE	SE	176	S													
Aug 13	S	S	S	SSE	SE	SE	SSE	SSW	SSW	S	WSW	W	W	W	W	WSW	W	NNW	NNW	NNW	NNW	NNW	NNW	NW	280	W													
Aug 14	NW	NW	NNW	NW	NW	NNW	NNW	NNW	N	NW	W	W	WNW	NNW	NNW	N	ENE	ENE	ENE	ENE	E	ENE	E	ENE	352	N													
Aug 15	E	E	E	E	ESE	ESE	NNE	NNE	NE	ENE	E	NE	NNE	NE	ENE	NE	NE	NNE	NE	NNE	N	N	N	N	43	NE													
Aug 16	NNE	NNE	NNE	N	N	NNE	NE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	E	ENE	E	E	ENE	42	NE													
Aug 17	ENE	ENE	ENE	E	E	E	E	ESE	SE	SE	SE	WSW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	SW	NNW	NNW	NNW	N	N	72	ENE												
Aug 18	NNW	ENE	NNE	NNW	NNW	N	N	NNE	NE	ENE	NW	NW	N	NNW	N	N	NE	ESE	E	E	E	ESE	ESE	ESE	56	NE													
Aug 19	ESE	E	E	ESE	ESE	E	ESE	SE	SSE	S	SSE	SSE	S	SSW	S	S	ENE	SE	S	S	S	SSW	SW	SSW	168	SSE													
Aug 20	SSW	SSW	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SW	SW	SW	SSW	S	SSW	SSE	SSW	SSW	208	SSW													
Aug 21	SSW	S	SSW	SSW	SSW	NNW	N	N	N	N	NNE	N	NNE	NNE	N	N	NNE	N	N	N	NNW	NNW	NNW	NNW	0	N													
Aug 22	N	NNE	N	SSE	SSE	SSE	SSE	SSW	S	S	S	S	S	S	S	S	S	C	C	SSE	SSE	SSE	SSE	S	179	S													
Aug 23	S	S	S	S	S	S	S	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	WSW	W	NNW	N	NNE	NE	NE	207	SSW												
Aug 24	NE	N	NNE	N	NNE	NNE	ENE	ENE	N	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	N	N	N	NNW	NNW	NNW	NNW	0	N													
Aug 25	NW	SW	SW	S	S	SE	SSE	S	S	S	S	S	S	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSE	SSE	S	S	193	S													
Aug 26	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SSE	S	SSW	S	SSE	SSE	SSE	S	SSW	S	SSE	SSE	SE	SE	ESE	ESE	161	SSE													
Aug 27	SE	SE	ESE	ESE	ESE	SSE	S	SW	SW	WSW	WSW	SW	SSW	SW	WSW	WSW	SW	WSW	NNW	NNW	NNW	NNW	NNW	NNW	231	SW													
Aug 28	WNW	W	W	W	W	WNW	WSW	SW	SW	WNW	WNW	WNW	W	WSW	W	W	WSW	WSW	WSW	S	SSW	SSW	SSW	SSW	250	WSW													
Aug 29	SW	SW	SSW	SW	SW	SW	SW	SW	WSW	WSW	NW	NNW	NNW	NNW	NW	SW	NNW	WSW	NW	ESE	SSE	S	SSE	SSE	E	244	WSW												
Aug 30	ESE	SE	ESE	ESE	ESE	S	SW	SW	WSW	WNW	WNW	NNW	NNW	NNW	NNW	NW	W	WSW	SW	SSW	SSW	SSW	SSE	SSE	267	W													
Aug 31	SE	SE	SE	SE	SE	SSE	SE	SE	S	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SSW	SW	SSE	SSE	SSE	S	S	189	S												
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance																								
K	Collection Error						ND	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.																																							



Peace River Area Monitoring Program

986-C Station - August 2024

Summary of Hourly Averages

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

WIND SPEED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Maximum Hourly Value:				21.9	kph	on Aug 24 at hr 7										Hours in Service:				744																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Maximum Daily Value:				15.7	kph	on Aug 20										Hours of Data:				742																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Minimum Hourly Value:				0.2	kph	on Aug 6 at hr 2										Hours of Missing Data:				0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Minimum Daily Value:				3.1	kph	on Aug 6										Hours of Calibration:				2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Monthly Average:				2.3	kph											Operational Uptime:				100.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
WIND DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Monthly Average:				167 degree (SSE)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)													10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Aug 1	3.0	7.3	6.8	6.2	2.9	5.3	7.3	7.3	9.5	8.9	7.5	10.5	15.2	12.7	9.8	12.4	13.7	14.1	11.5	7.8	6.2	8.8	8.5	11.7	2.9	15.2	9.0	SW	SSE	SE	SSE	SSW	S	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW</

842-B STATION

Peace River Area Monitoring Program

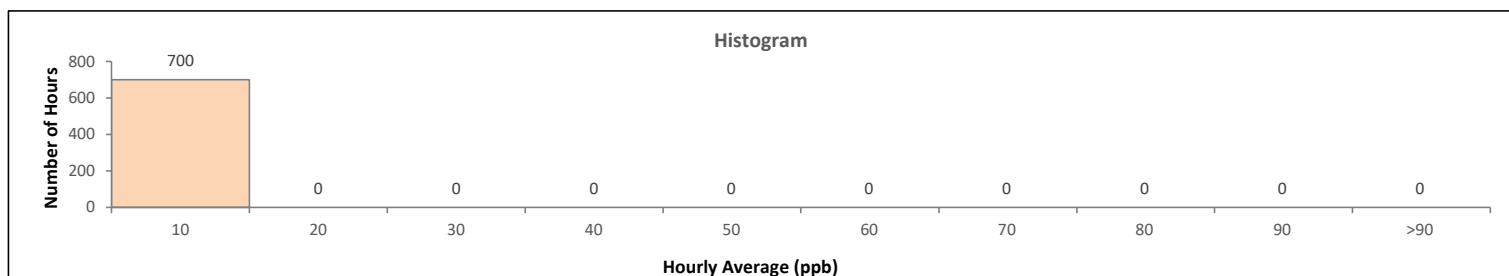
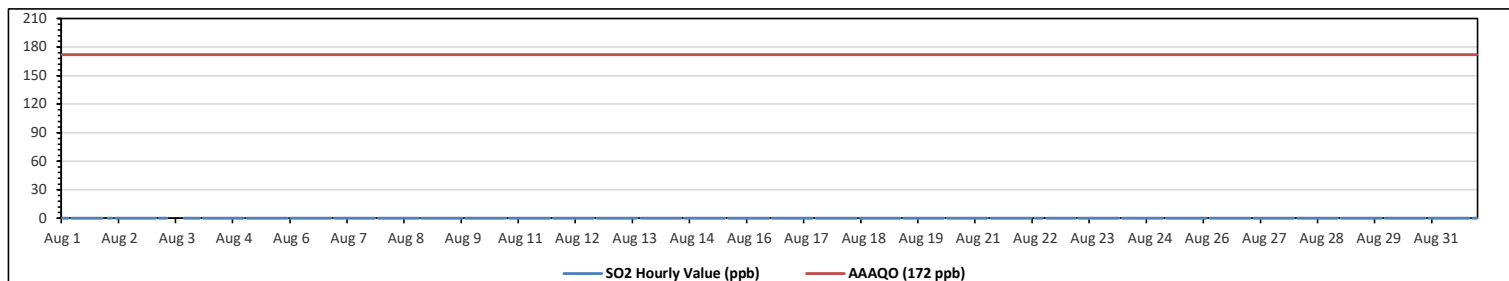
842-B Station - August 2024

Summary of Hourly Averages

SULPHUR DIOXIDE (SO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb																											
Number of 1-Hour Exceedances:				0				Number of 24-Hour Exceedances:				0				30-Day Exceedance:				0							
Maximum Hourly Value:				0 ppb on Aug 1 at hr 0				Hours in Service:				744															
Maximum Daily Value:				0.0 ppb on Aug 1				Hours of Data:				700															
Minimum Hourly Value:				0 ppb on Aug 1 at hr 0				Hours of Missing Data:				3															
Minimum Daily Value:				0.0 ppb on Aug 1				Hours of Calibration:				41															
Monthly Average:				0.0 ppb				Operational Uptime:				99.6															
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Aug 1	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
Aug 2	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
Aug 3	0	0	S	0	0	0	0	0	C	C	C	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	NA
Aug 4	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
Aug 5	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
Aug 6	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
Aug 7	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
Aug 8	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
Aug 9	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
Aug 10	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
Aug 11	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
Aug 12	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
Aug 13	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
Aug 14	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
Aug 15	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
Aug 16	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
Aug 17	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
Aug 18	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
Aug 19	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
Aug 20	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
Aug 21	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
Aug 22	0	0	0	0	0	S	0	0	0	0	0	0	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 23	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
Aug 24	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
Aug 25	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
Aug 26	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
Aug 27	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 28	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
Aug 29	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
Aug 30	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
Aug 31	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
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	0	0	0
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	Monthly Calibration								S	Daily Zero-Span Check								Q	Quality Assurance								
K	Collection Error								ND	No Data (Machine Not in Service)								Y	Routine Maintenance								
X	Invalid Data (Equipment Malfunction /Recovery)								NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)									P Power Failure								
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

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

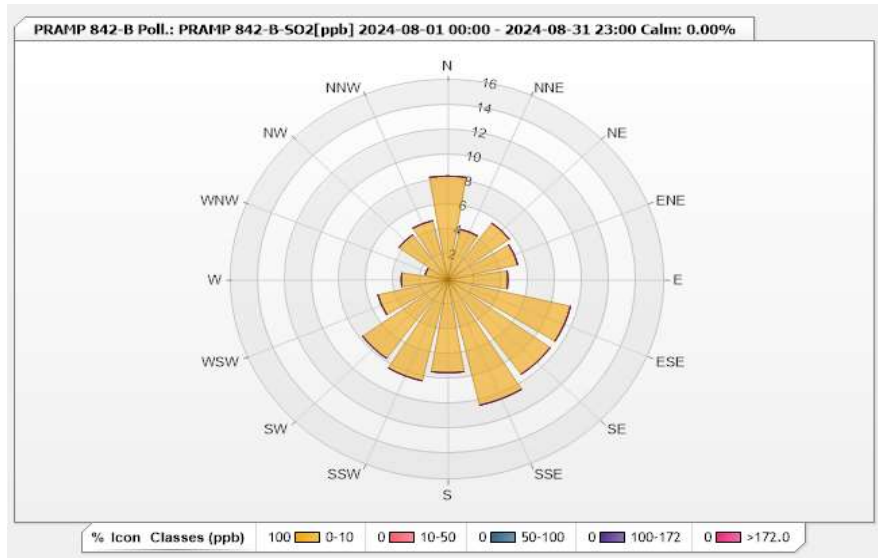


Station: PRAMP 842-B Poll.: PRAMP 842-B-SO2[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 93.82% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	8.31	0	0	0	0	8.31
NNE	4.15	0	0	0	0	4.15
NE	5.59	0	0	0	0	5.59
ENE	5.3	0	0	0	0	5.3
E	4.44	0	0	0	0	4.44
ESE	9.31	0	0	0	0	9.31
SE	9.31	0	0	0	0	9.31
SSE	10.32	0	0	0	0	10.32
S	7.45	0	0	0	0	7.45
SSW	8.31	0	0	0	0	8.31
SW	7.74	0	0	0	0	7.74
WSW	5.3	0	0	0	0	5.3
W	3.44	0	0	0	0	3.44
WNW	1.72	0	0	0	0	1.72
NW	4.44	0	0	0	0	4.44
NNW	4.87	0	0	0	0	4.87
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

842-B Station - August 2024

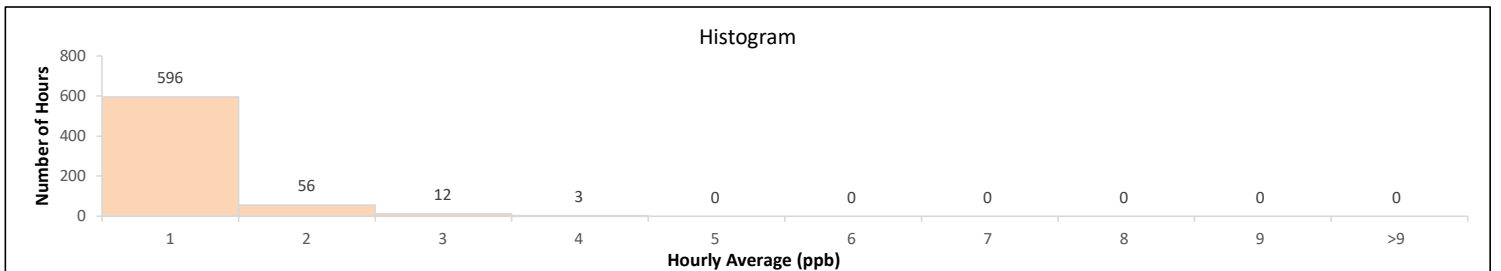
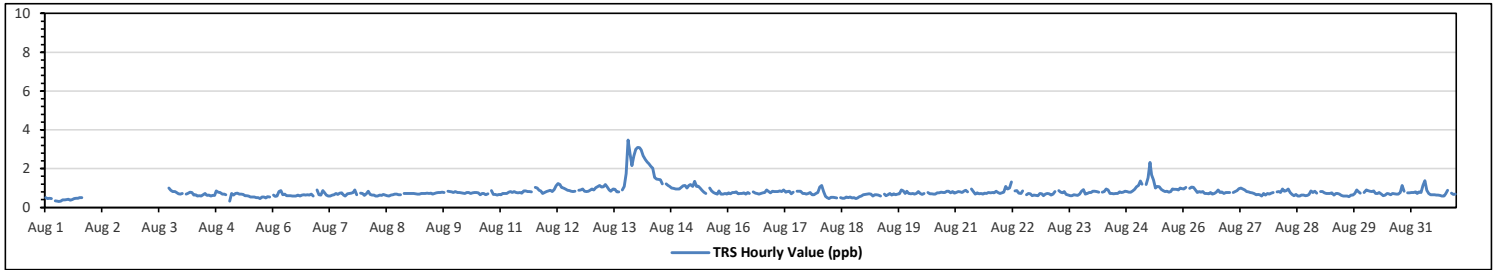
Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Maximum Hourly Value:	3.47	ppb	on Aug 13 at hr 19	Hours in Service:	744																																				
Maximum Daily Value:	1.71	ppb	on Aug 14	Hours of Data:	667																																				
Minimum Hourly Value:	0.31	ppb	on Aug 1 at hr 7	Hours of Missing Data:	38																																				
Minimum Daily Value:	0.42	ppb	on Aug 1	Hours of Calibration:	39																																				
Monthly Average:	0.80	ppb		Operational Uptime:	94.9																																				
Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)														10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 1	0.5	0.45	0.48	0.45	S	0.34	0.32	0.31	0.33	0.39	0.39	0.41	0.43	0.37	0.41	0.45	0.47	0.48	0.5	0.51	X	X	X	X	X	X	X	X	X	X	0.31	0.51	0.42								
Aug 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	X	X	X	X	X	-	-	-									
Aug 3	X	X	X	X	X	X	X	X	X	C	C	C	C	C	C	C	C	1	0.88	0.82	0.82	0.78	0.7	0.68						0.68	1.00	NA									
Aug 4	0.71	S	0.68	0.73	0.79	0.76	0.63	0.65	0.6	0.61	0.6	0.65	0.73	0.62	0.64	0.58	0.62	0.62	0.86	0.79	0.76	0.69	0.68	0.66						0.58	0.86	0.68									
Aug 5	S	0.32	0.73	0.64	0.71	0.74	0.68	0.68	0.67	0.61	0.61	0.59	0.54	0.53	0.54	0.51	0.5	0.46	0.54	0.53	0.49	0.55	0.54	S						0.32	0.74	0.58									
Aug 6	0.63	0.57	0.6	0.81	0.87	0.66	0.68	0.61	0.61	0.61	0.58	0.58	0.59	0.63	0.59	0.63	0.65	0.64	0.65	0.64	0.68	0.6	S	S	0.89						0.57	0.89	0.65								
Aug 7	0.66	0.64	0.87	0.78	0.64	0.59	0.59	0.64	0.65	0.73	0.67	0.74	0.75	0.64	0.59	0.7	0.71	0.74	0.76	0.9	0.65	S	S	0.74	0.71					0.59	0.90	0.70									
Aug 8	0.62	0.7	0.83	0.67	0.63	0.64	0.6	0.58	0.63	0.62	0.67	0.64	0.61	0.58	0.63	0.65	0.69	0.68	0.65	0.66	S	S	0.72	0.72	0.71					0.58	0.83	0.66									
Aug 9	0.71	0.72	0.73	0.7	0.68	0.69	0.71	0.73	0.72	0.74	0.71	0.74	0.69	0.72	0.75	0.77	0.76	0.79	0.77	S	S	0.83	0.81	0.8	0.78					0.68	0.83	0.74									
Aug 10	0.82	0.77	0.77	0.75	0.74	0.73	0.77	0.76	0.73	0.75	0.77	0.77	0.75	0.66	0.73	0.71	0.65	0.7	S	S	0.87	0.67	0.67	0.64	0.67					0.64	0.87	0.73									
Aug 11	0.65	0.71	0.73	0.71	0.79	0.81	0.77	0.82	0.77	0.75	0.78	0.74	0.85	0.86	0.81	0.82	0.8	S	S	1.03	0.99	0.88	0.85	0.73	0.77					0.65	1.03	0.80									
Aug 12	0.82	0.86	0.88	0.81	0.92	1.11	1.23	1.19	1.04	0.99	0.96	0.88	0.87	0.84	0.82	0.83	S	S	0.88	0.9	0.95	0.83	0.81	0.83	0.88					0.81	1.23	0.92									
Aug 13	0.94	0.9	1.02	1.09	1.14	1.05	1.06	1.19	1.05	0.89	0.84	0.95	0.93	0.8	0.8	S	S	0.89	1.09	1.74	3.47	2.77	2.15	2.64	2.99					0.80	3.47	1.41									
Aug 14	3.1	3.07	2.97	2.67	2.47	2.33	2.26	2.12	2.01	1.55	1.46	1.44	1.42	1.21	S	S	1.22	1.14	1.09	1.01	0.98	0.95	0.95	0.94	1.04	0.94	3.10		1.71												
Aug 15	1.11	1.13	0.99	1.12	1.19	1.08	1.34	1.09	1.1	1	0.88	0.79	0.71	S	S	1.01	0.86	0.76	0.71	0.69	0.85	0.68	0.68	0.71	0.69	0.68	1.34	0.92													
Aug 16	0.75	0.7	0.76	0.76	0.8	0.7	0.72	0.73	0.75	0.69	0.76	0.72	S	0.8	0.74	0.73	0.69	0.73	0.75	0.76	0.89	0.84	0.75	0.84	0.69	0.89	0.75														
Aug 17	0.81	0.81	0.81	0.85	0.82	0.9	0.79	0.81	0.83	0.7	0.79	S	0.84	0.83	0.83	0.73	0.71	0.68	0.72	0.78	0.66	0.65	0.72	0.78	0.65	0.90	0.78														
Aug 18	1.05	1.13	0.82	0.57	0.51	0.46	0.52	0.52	0.5	0.49	S	0.5	0.48	0.48	0.53	0.5	0.54	0.49	0.51	0.45	0.49	0.56	0.58	0.65	0.45	1.13	0.58														
Aug 19	0.67	0.68	0.7	0.68	0.58	0.66	0.65	0.64	0.59	S	S	0.68	0.61	0.66	0.72	0.63	0.7	0.65	0.68	0.7	0.9	0.85	0.72	0.83	0.72	0.58	0.90	0.69													
Aug 20	0.7	0.72	0.68	0.72	0.82	0.73	0.67	0.73	S	S	0.78	0.7	0.7	0.69	0.69	0.75	0.75	0.79	0.77	0.78	0.84	0.83	0.75	0.81	0.74	0.67	0.84	0.75													
Aug 21	0.77	0.81	0.8	0.77	0.83	0.88	0.8	S	S	0.95	0.82	0.69	0.75	0.7	0.73	0.68	0.74	0.72	0.76	0.75	0.78	0.75	0.83	0.78	0.71	0.68	0.95	0.77													
Aug 22	0.75	0.79	1.09	0.94	1.01	1.32	S	0.86	0.87	0.74	0.73	0.85	Y	0.66	0.72	0.7	0.61	0.63	0.62	0.61	0.72	0.7	0.61	0.68	0.61	1.32	0.78														
Aug 23	0.71	0.7	0.64	0.68	0.81	S	0.87	0.79	0.75	0.81	0.67	0.63	0.61	0.61	0.66	0.63	0.62	0.69	0.83	0.92	0.69	0.72	0.76	0.78	0.61	0.92	0.72														
Aug 24	0.83	0.84	0.81	0.79	S	S	0.79	0.81	0.96	0.9	0.71	0.72	0.7	0.73	0.73	0.8	0.78	0.79	0.83	0.81	0.79	0.79	0.85	0.93	1.06	0.70	1.06	0.82													
Aug 25	1.13	1.36	1.2	S	1.18	1.52	2.32	1.68	1.41	1.01	1.09	1.06	0.93	0.87	0.82	0.83	0.79	0.81	0.95	0.93	0.93	0.91	1.01	0.97	0.79	2.32	1.12														
Aug 26	0.94	1.04	S	0.98	1.05	1.04	0.91	0.78	0.81	0.79	0.82	0.73	0.73	0.7	0.78	0.68	0.71	0.79	0.9	0.78	0.8	0.72	0.76	0.78	0.68	1.05	0.83														
Aug 27	0.76	S	0.77	0.82	0.87	0.97	1	0.94	0.9	0.82	0.8	0.77	0.75	0.71	0.66	0.67	0.65	0.58	0.72	0.63	0.71	0.68	0.74	0.76	0.58	1.00	0.77														
Aug 28	S	0.8	0.8	0.81	0.76	0.95	0.84	0.87	0.95	0.76	0.67	0.61	0.67	0.6	0.59	0.64	0.63	0.61	0.62	0.67	0.85	0.76	0.83	0.74	S	0.59	0.95	0.74													
Aug 29	0.81	0.82	0.75	0.71	0.71	0.72	0.75	0.64	0.72	0.71	0.68	0.62	0.58	0.58	0.59	0.55	0.63	0.64	0.73	0.9	0.81	0.74	S	S	0.78	0.55	0.90	0.70													
Aug 30	0.89	0.87	0.84	0.82	0.86	0.73	0.72	0.77	0.69	0.61	0.64	0.72	0.7	0.65	0.71	0.7	0.68	0.68	0.78	1.14	0.84	S	S	0.75	0.75	0.61	1.14	0.76													
Aug 31	0.77	0.77	0.8	0.72	0.8	0.76	1.13	1.38	0.88	0.72	0.65	0.66	0.66	0.64	0.63	0.62	0.59	0.59	0.7	0.88	S	S	0.74	0.67	0.68	0.59	1.38	0.76													
Diurnal Maximum	3.10	3.07	2.97	2.67	2.47	2.33	2.32	2.12	2.01	1.55	1.46	1.44	1.42	1.21	1.01	1.22	1.14	1.09	1.74	3.47	2.77	2.15	2.64	2.99																	
Diurnal Average	0.87	0.88	0.88	0.84	0.90	0.88	0.90	0.88	0.83	0.76	0.75	0.74	0.72	0.69	0.70	0.70	0.69	0.72	0.79	0.89	0.83	0.80	0.82	0.86																	
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance																		
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance																		
X	Invalid Data (Equipment Malfunction / Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																									
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																									

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

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

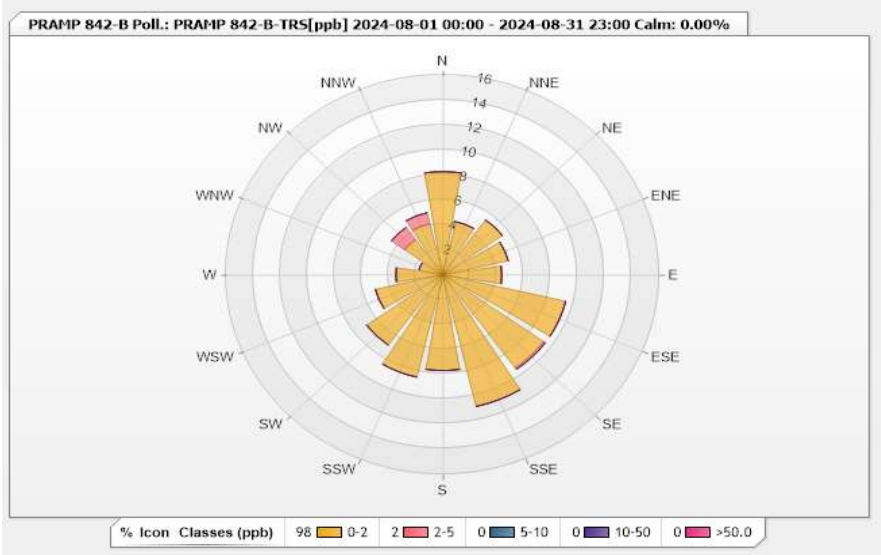


Station: PRAMP 842-B Poll.: PRAMP 842-B-TRS[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 89.38% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	8.27	0	0	0	0	8.27
NNE	4.36	0	0	0	0	4.36
NE	5.41	0	0	0	0	5.41
ENE	4.96	0	0	0	0	4.96
E	4.36	0	0	0	0	4.36
ESE	9.32	0	0	0	0	9.32
SE	9.17	0.15	0	0	0	9.32
SSE	10.83	0	0	0	0	10.83
S	7.67	0	0	0	0	7.67
SSW	8.42	0	0	0	0	8.42
SW	6.92	0	0	0	0	6.92
WSW	5.11	0	0	0	0	5.11
W	3.46	0	0	0	0	3.46
WNW	1.8	0	0	0	0	1.8
NW	3.46	1.2	0	0	0	4.66
NNW	4.21	0.9	0	0	0	5.11
Summary	97.73	2.25	0	0	0	100



Peace River Area Monitoring Program

842-B Station - August 2024

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

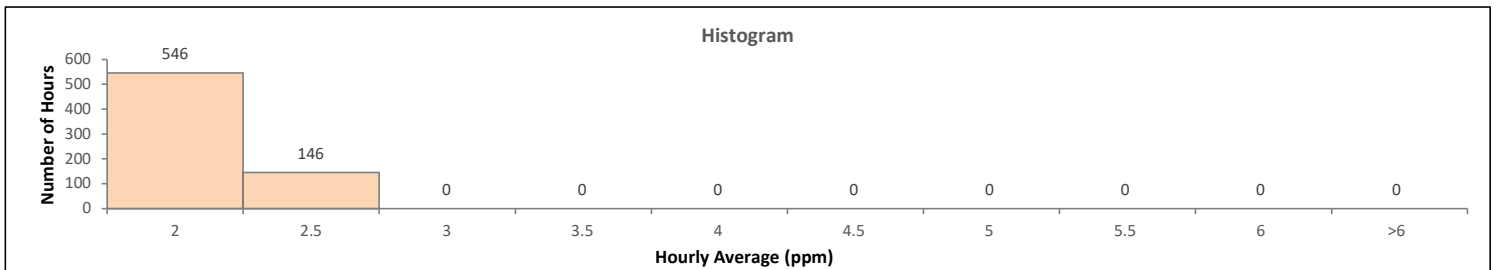
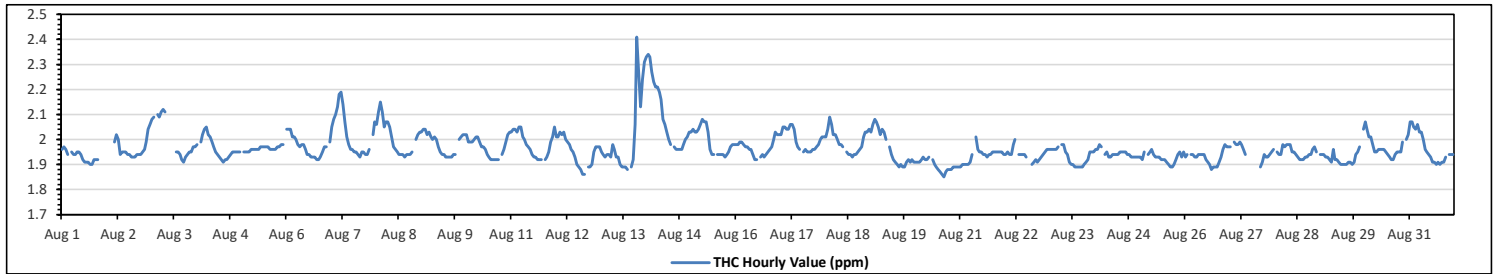
Maximum Hourly Value:	2.41	ppm	on Aug 13 at hr 19	Hours in Service:	744
Maximum Daily Value:	2.10	ppm	on Aug 14	Hours of Data:	692
Minimum Hourly Value:	1.85	ppm	on Aug 20 at hr 15	Hours of Missing Data:	14
Minimum Daily Value:	1.90	ppm	on Aug 20	Hours of Calibration:	38
Monthly Average:	1.97	ppm		Operational Uptime:	98.1

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				
Aug 1	1.96	1.97	1.96	1.94	S	1.95	1.94	1.94	1.95	1.95	1.94	1.92	1.91	1.91	1.91	1.90	1.90	1.92	1.92	1.92	X	1.99	P	P	1.90	1.99	1.94	
Aug 2	X	X	1.95	S	1.99	2.02	2.00	1.94	1.95	1.95	1.95	1.94	1.94	1.93	1.93	1.93	1.94	1.94	1.94	1.95	1.96	1.99	2.04	2.06	1.93	2.06	1.96	
Aug 3	2.08	2.09	S	2.10	2.09	2.11	2.12	2.11	C	C	C	C	C	1.95	1.95	1.94	1.92	1.91	1.93	1.94	1.95	1.99	2.04	2.06	1.93	2.06	1.96	
Aug 4	1.98	S	1.99	2.02	2.04	2.05	2.02	2.01	1.99	1.97	1.95	1.94	1.93	1.92	1.91	1.92	1.92	1.93	1.94	1.95	1.95	1.95	1.95	1.95	1.91	2.05	1.96	
Aug 5	S	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.97	1.97	1.98	1.98	S	1.95	1.98	1.96	
Aug 6	2.04	2.04	2.04	2.01	2.01	2.00	1.98	1.97	1.98	1.98	1.96	1.94	1.94	1.93	1.93	1.93	1.92	1.92	1.93	1.95	1.97	1.97	S	1.99	1.92	2.04	1.97	
Aug 7	2.05	2.08	2.10	2.13	2.18	2.19	2.14	2.07	2.01	1.98	1.96	1.96	1.95	1.95	1.94	1.93	1.95	1.95	1.94	1.94	1.96	S	2.02	2.07	1.93	2.19	2.02	
Aug 8	2.06	2.11	2.15	2.11	2.05	2.07	2.07	2.05	2.01	1.97	1.96	1.95	1.94	1.94	1.94	1.93	1.94	1.94	1.94	1.95	S	2.00	2.02	2.03	1.93	2.15	2.01	
Aug 9	2.03	2.04	2.04	2.02	2.03	2.01	2.00	2.01	2.00	1.97	1.95	1.94	1.94	1.93	1.93	1.93	1.93	1.94	1.94	S	2.00	2.01	2.02	2.02	1.93	2.04	1.98	
Aug 10	2.02	1.99	1.99	1.99	2.00	2.01	2.01	1.99	1.97	1.97	1.96	1.94	1.93	1.92	1.92	1.92	1.92	1.92	S	1.94	1.96	1.99	2.02	2.03	1.92	2.03	1.97	
Aug 11	2.03	2.04	2.04	2.03	2.05	2.05	2.01	2.00	1.98	1.97	1.96	1.94	1.93	1.93	1.92	1.92	1.92	S	1.92	1.93	1.95	1.99	2.01	2.05	1.92	2.05	1.98	
Aug 12	2.01	2.01	2.03	2.02	2.03	2.00	1.99	1.98	1.96	1.95	1.93	1.90	1.89	1.88	1.86	1.86	S	1.89	1.89	1.90	1.95	1.97	1.97	1.97	1.86	2.03	1.95	
Aug 13	1.95	1.94	1.93	1.94	1.94	1.93	1.98	1.96	1.93	1.93	1.90	1.89	1.89	1.88	1.88	S	1.89	1.92	2.06	2.41	2.27	2.13	2.24	2.31	1.88	2.41	2.00	
Aug 14	2.33	2.34	2.33	2.27	2.23	2.21	2.21	2.19	2.16	2.08	2.06	2.03	2.00	1.98	S	1.97	1.96	1.96	1.96	1.96	1.98	2.00	2.01	2.03	1.96	2.34	2.10	
Aug 15	2.03	2.04	2.03	2.03	2.04	2.06	2.08	2.07	2.07	2.03	1.96	1.94	1.94	S	1.94	1.94	1.94	1.94	1.93	1.94	1.95	1.97	1.98	1.98	1.93	2.08	1.99	
Aug 16	1.98	1.98	1.99	1.99	1.98	1.97	1.97	1.96	1.96	1.94	1.92	1.92	S	1.93	1.94	1.93	1.94	1.95	1.96	1.97	2.00	2.03	2.02	2.02	1.92	2.03	1.97	
Aug 17	2.02	2.05	2.05	2.04	2.04	2.06	2.06	2.04	1.99	1.97	1.96	S	1.95	1.96	1.95	1.95	1.95	1.96	1.96	1.97	1.98	2.00	2.01	2.01	1.95	2.06	2.00	
Aug 18	2.01	2.04	2.09	2.06	2.02	2.02	2.00	1.98	1.98	1.97	S	1.95	1.94	1.94	1.93	1.94	1.94	1.95	1.96	1.97	2.01	2.03	2.03	2.04	1.93	2.09	1.99	
Aug 19	2.03	2.06	2.08	2.07	2.05	2.02	2.04	2.03	2.00	S	1.97	1.94	1.92	1.91	1.90	1.89	1.90	1.89	1.89	1.91	1.92	1.91	1.92	1.91	1.89	2.08	1.96	
Aug 20	1.91	1.91	1.91	1.92	1.93	1.92	1.92	1.93	S	1.92	1.90	1.89	1.88	1.87	1.86	1.85	1.87	1.88	1.88	1.88	1.89	1.89	1.89	1.89	1.85	1.93	1.90	
Aug 21	1.89	1.90	1.90	1.90	1.90	1.91	1.94	S	2.01	1.96	1.95	1.95	1.94	1.94	1.93	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.94	1.89	2.01	1.94	
Aug 22	1.94	1.95	1.94	1.94	1.98	2.00	S	1.94	1.94	1.94	1.94	1.93	Y	X	1.90	1.91	1.92	1.91	1.92	1.93	1.94	1.95	1.96	1.96	1.90	2.00	1.94	
Aug 23	1.96	1.96	1.96	1.96	1.97	S	1.98	1.98	1.95	1.94	1.91	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.90	1.91	1.92	1.95	1.95	1.95	1.89	1.98	1.93	
Aug 24	1.96	1.96	1.98	1.97	S	1.94	1.95	1.93	1.93	1.94	1.94	1.94	1.94	1.95	1.95	1.95	1.95	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.98	1.94	
Aug 25	1.93	1.92	1.95	S	1.94	1.95	1.96	1.94	1.93	1.93	1.93	1.92	1.92	1.92	1.91	1.90	1.89	1.89	1.89	1.90	1.92	1.94	1.95	1.93	1.95	1.89	1.96	1.93
Aug 26	1.93	1.94	S	1.94	1.94	1.93	1.93	1.94	1.94	1.94	1.94	1.92	1.91	1.90	1.88	1.89	1.89	1.89	1.91	1.93	1.96	1.98	1.97	1.97	1.88	1.98	1.93	
Aug 27	1.97	S	1.99	1.98	1.98	1.99	1.98	1.96	1.94	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.89	1.91	1.94	1.93	1.93	1.94	1.95	1.96	1.89	1.99	NA	
Aug 28	S	1.95	1.94	1.94	1.98	1.97	1.98	1.98	1.98	1.95	1.95	1.94	1.93	1.92	1.92	1.92	1.93	1.93	1.94	1.94	1.96	1.97	1.95	S	1.92	1.98	1.95	
Aug 29	1.94	1.94	1.94	1.93	1.93	1.92	1.91	1.96	1.92	1.92	1.91	1.90	1.90	1.90	1.90	1.91	1.91	1.90	1.91	1.94	1.95	1.97	S	2.04	1.90	2.04	1.93	
Aug 30	2.07	2.04	2.01	2.01	1.98	1.95	1.95	1.96	1.96	1.96	1.96	1.95	1.94	1.93	1.92	1.92	1.94	1.95	1.95	1.95	1.99	S	2.00	2.02	1.92	2.07	1.97	
Aug 31	2.07	2.07	2.05	2.04	2.06	2.03	2.03	2.00	1.96	1.95	1.94	1.93	1.91	1.91	1.90	1.91	1.90	1.91	1.91	1.93	S	1.94	1.94	1.94	1.90	2.07	1.97	
Diurnal Maximum	2.33	2.34	2.33	2.27	2.23	2.21	2.21	2.19	2.16	2.08	2.06	2.03	2.00	1.98	1.97	1.97	1.96	1.96	2.06	2.41	2.27	2.13	2.24	2.31				
Diurnal Average	2.01	2.01	2.01	2.01	2.01	2.01	2.00	1.99	1.98	1.96	1.95	1.94	1.93	1.93	1.92	1.92	1.92	1.92	1.93	1.95	1.97	1.98	1.99	2.00				

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

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

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

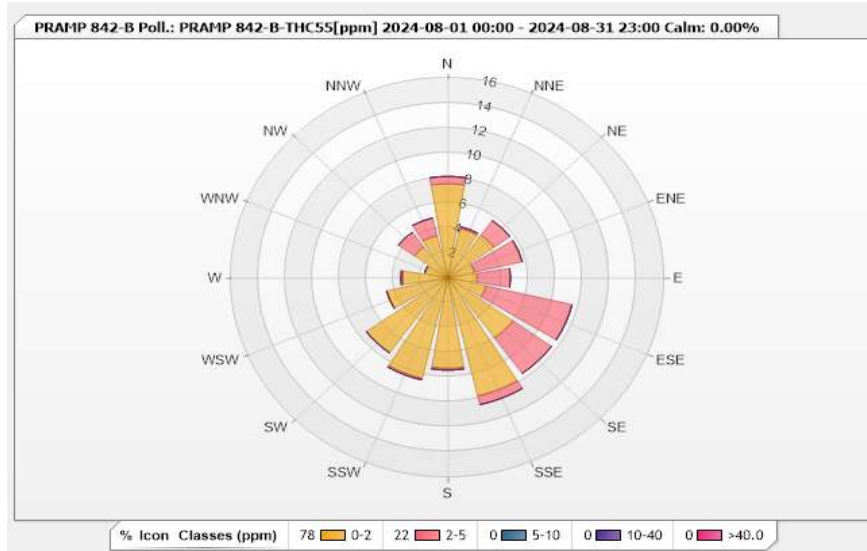


Station: PRAMP 842-B Poll.: PRAMP 842-B-THC55[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 92.74% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	7.54	0.58	0	0	0	8.12
NNE	4.06	0.14	0	0	0	4.2
NE	4.2	1.45	0	0	0	5.65
ENE	2.03	3.62	0	0	0	5.65
E	2.17	2.46	0	0	0	4.63
ESE	2.9	6.52	0	0	0	9.42
SE	5.94	3.48	0	0	0	9.42
SSE	9.71	0.72	0	0	0	10.43
S	7.25	0.14	0	0	0	7.39
SSW	8.26	0.14	0	0	0	8.4
SW	7.39	0	0	0	0	7.39
WSW	4.64	0	0	0	0	4.64
W	3.33	0.14	0	0	0	3.47
WNW	1.74	0	0	0	0	1.74
NW	3.04	1.45	0	0	0	4.49
NNW	3.48	1.45	0	0	0	4.93
Summary	77.68	22.29	0	0	0	100



Peace River Area Monitoring Program

842-B Station - August 2024

Summary of Hourly Averages

METHANE (CH4) in ppm

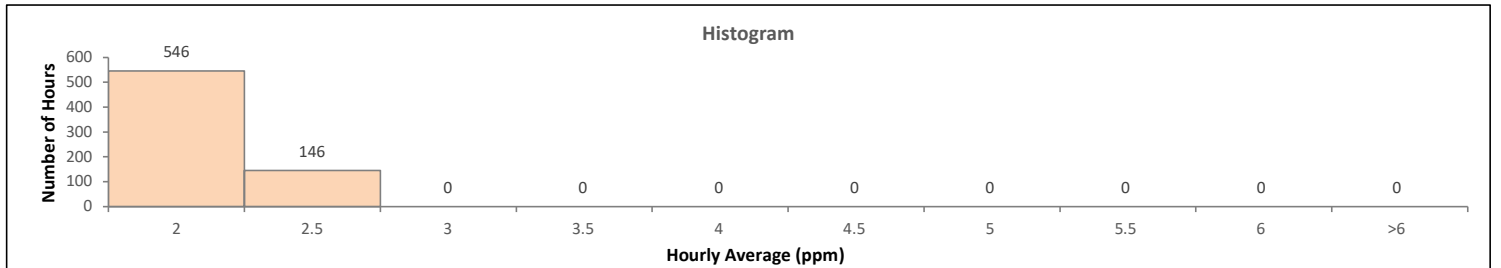
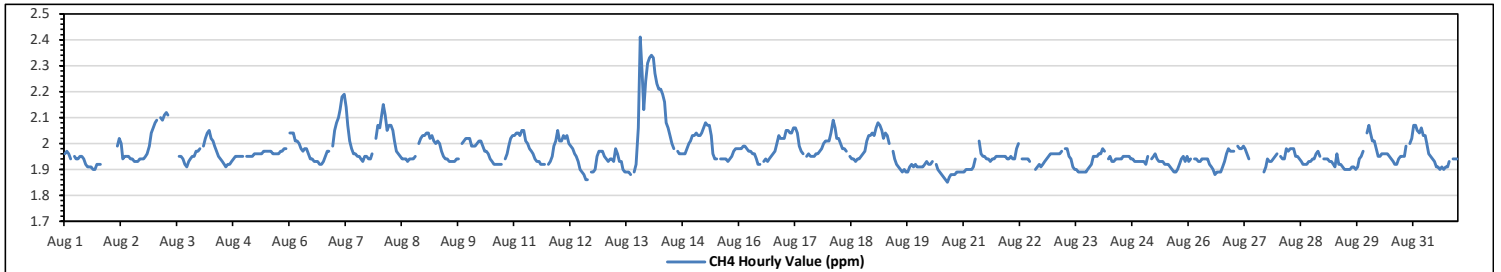
Maximum Hourly Value:	2.41	ppm	on Aug 13 at hr 19	Hours in Service:	744
Maximum Daily Value:	2.10	ppm	on Aug 14	Hours of Data:	692
Minimum Hourly Value:	1.85	ppm	on Aug 20 at hr 15	Hours of Missing Data:	14
Minimum Daily Value:	1.90	ppm	on Aug 20	Hours of Calibration:	38
Monthly Average:	1.97	ppm		Operational Uptime:	98.1

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				
Aug 1	1.96	1.97	1.96	1.94	S	1.95	1.94	1.94	1.95	1.95	1.94	1.92	1.91	1.91	1.91	1.90	1.90	1.92	1.92	1.92	X	1.99	P	P	1.90	1.99	1.94	
Aug 2	X	X	1.95	S	1.99	2.02	2.00	1.94	1.95	1.95	1.95	1.94	1.94	1.93	1.93	1.93	1.94	1.94	1.94	1.95	1.96	1.99	2.04	2.06	1.93	2.06	1.96	
Aug 3	2.08	2.09	S	2.10	2.09	2.11	2.12	2.11	C	C	C	C	C	1.95	1.95	1.94	1.92	1.91	1.93	1.94	1.95	1.99	2.04	2.06	1.93	2.06	1.96	
Aug 4	1.98	S	1.99	2.02	2.04	2.05	2.02	2.01	1.99	1.97	1.95	1.94	1.93	1.92	1.91	1.92	1.92	1.93	1.94	1.95	1.95	1.95	1.95	1.91	2.05	1.96		
Aug 5	S	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.97	1.97	1.98	1.98	S	1.95	1.98	1.96	
Aug 6	2.04	2.04	2.04	2.01	2.01	2.00	1.98	1.97	1.98	1.98	1.96	1.94	1.94	1.93	1.93	1.93	1.92	1.92	1.93	1.95	1.97	1.97	S	1.99	1.92	2.04	1.97	
Aug 7	2.05	2.08	2.10	2.13	2.18	2.19	2.14	2.07	2.01	1.98	1.96	1.96	1.95	1.95	1.94	1.93	1.95	1.95	1.94	1.94	1.96	S	2.02	2.07	1.93	2.19	2.02	
Aug 8	2.06	2.11	2.15	2.11	2.05	2.07	2.07	2.05	2.01	1.97	1.96	1.95	1.94	1.94	1.94	1.93	1.94	1.94	1.94	1.95	S	2.00	2.02	2.03	1.93	2.15	2.01	
Aug 9	2.03	2.04	2.04	2.02	2.03	2.01	2.00	2.01	2.00	1.97	1.95	1.94	1.94	1.93	1.93	1.93	1.93	1.94	1.94	S	2.00	2.01	2.02	2.02	1.93	2.04	1.98	
Aug 10	2.02	1.99	1.99	1.99	2.00	2.01	2.01	1.99	1.97	1.97	1.96	1.94	1.93	1.92	1.92	1.92	1.92	1.92	S	1.94	1.96	1.99	2.02	2.03	1.92	2.03	1.97	
Aug 11	2.03	2.04	2.04	2.03	2.05	2.05	2.01	2.00	1.98	1.97	1.96	1.94	1.93	1.93	1.92	1.92	1.92	S	1.92	1.93	1.95	1.99	2.01	2.05	1.92	2.05	1.98	
Aug 12	2.01	2.01	2.03	2.02	2.03	2.00	1.99	1.98	1.96	1.95	1.93	1.90	1.89	1.88	1.86	1.86	S	1.89	1.89	1.90	1.95	1.97	1.97	1.97	1.86	2.03	1.95	
Aug 13	1.95	1.94	1.93	1.94	1.94	1.93	1.98	1.96	1.93	1.93	1.90	1.89	1.89	1.88	1.88	S	1.89	1.92	2.06	2.41	2.27	2.13	2.24	2.31	1.88	2.41	2.00	
Aug 14	2.33	2.34	2.33	2.27	2.23	2.21	2.21	2.19	2.16	2.08	2.06	2.03	2.00	1.98	S	1.97	1.96	1.96	1.96	1.96	1.96	1.98	2.00	2.01	2.03	1.96	2.34	2.10
Aug 15	2.03	2.04	2.03	2.03	2.04	2.06	2.08	2.07	2.07	2.03	1.96	1.94	1.94	S	1.94	1.94	1.94	1.94	1.93	1.94	1.95	1.97	1.98	1.98	1.93	2.08	1.99	
Aug 16	1.98	1.98	1.99	1.99	1.98	1.97	1.97	1.96	1.96	1.94	1.92	1.92	S	1.93	1.94	1.93	1.94	1.95	1.96	1.97	2.00	2.03	2.02	2.02	1.92	2.03	1.97	
Aug 17	2.02	2.05	2.05	2.04	2.04	2.06	2.06	2.04	1.99	1.97	1.96	S	1.95	1.96	1.95	1.95	1.95	1.96	1.96	1.97	1.98	2.00	2.01	2.01	1.95	2.06	2.00	
Aug 18	2.01	2.04	2.09	2.06	2.02	2.02	2.00	1.98	1.98	1.97	S	1.95	1.94	1.94	1.93	1.94	1.94	1.95	1.96	1.97	2.01	2.03	2.03	2.04	1.93	2.09	1.99	
Aug 19	2.03	2.06	2.08	2.07	2.05	2.02	2.04	2.03	2.00	S	1.97	1.94	1.92	1.91	1.90	1.89	1.90	1.89	1.89	1.91	1.92	1.91	1.92	1.91	1.89	2.08	1.96	
Aug 20	1.91	1.91	1.91	1.92	1.93	1.92	1.92	1.93	S	1.92	1.90	1.89	1.88	1.87	1.86	1.85	1.87	1.88	1.88	1.88	1.89	1.89	1.89	1.89	1.85	1.93	1.90	
Aug 21	1.89	1.90	1.90	1.90	1.90	1.91	1.94	S	2.01	1.96	1.95	1.95	1.94	1.94	1.93	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.94	1.89	2.01	1.94	
Aug 22	1.94	1.95	1.94	1.94	1.98	2.00	S	1.94	1.94	1.94	1.94	1.93	Y	X	1.90	1.91	1.92	1.91	1.92	1.93	1.94	1.95	1.96	1.96	1.90	2.00	1.94	
Aug 23	1.96	1.96	1.96	1.96	1.97	S	1.98	1.98	1.95	1.94	1.91	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.90	1.91	1.92	1.95	1.95	1.95	1.89	1.98	1.93	
Aug 24	1.96	1.96	1.98	1.97	S	1.94	1.95	1.93	1.93	1.94	1.94	1.94	1.94	1.95	1.95	1.95	1.95	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.98	1.94	
Aug 25	1.93	1.92	1.95	S	1.94	1.95	1.96	1.94	1.93	1.93	1.93	1.92	1.92	1.92	1.91	1.90	1.89	1.89	1.90	1.92	1.94	1.95	1.93	1.95	1.89	1.96	1.93	
Aug 26	1.93	1.94	S	1.94	1.94	1.93	1.93	1.94	1.94	1.94	1.94	1.92	1.91	1.90	1.88	1.89	1.89	1.89	1.91	1.93	1.96	1.98	1.97	1.97	1.88	1.98	1.93	
Aug 27	1.97	S	1.99	1.98	1.98	1.99	1.98	1.96	1.94	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.89	1.91	1.94	1.93	1.93	1.94	1.95	1.96	1.89	1.99	NA	
Aug 28	S	1.95	1.94	1.94	1.98	1.97	1.98	1.98	1.98	1.95	1.95	1.94	1.93	1.92	1.92	1.92	1.93	1.93	1.94	1.94	1.96	1.97	1.95	S	1.92	1.98	1.95	
Aug 29	1.94	1.94	1.94	1.93	1.93	1.92	1.91	1.96	1.92	1.92	1.91	1.90	1.90	1.90	1.90	1.91	1.91	1.90	1.91	1.94	1.95	1.97	S	2.04	1.90	2.04	1.93	
Aug 30	2.07	2.04	2.01	2.01	1.98	1.95	1.95	1.96	1.96	1.96	1.96	1.95	1.94	1.93	1.92	1.92	1.94	1.95	1.95	1.95	1.99	S	2.00	2.02	1.92	2.07	1.97	
Aug 31	2.07	2.07	2.05	2.04	2.06	2.03	2.03	2.00	1.96	1.95	1.94	1.93	1.91	1.91	1.90	1.91	1.90	1.91	1.91	1.93	S	1.94	1.94	1.94	1.90	2.07	1.97	
Diurnal Maximum	2.33	2.34	2.33	2.27	2.23	2.21	2.21	2.19	2.16	2.08	2.06	2.03	2.00	1.98	1.97	1.97	1.96	1.96	2.06	2.41	2.27	2.13	2.24	2.31				
Diurnal Average	2.01	2.01	2.01	2.01	2.01	2.01	2.00	1.99	1.98	1.96	1.95	1.94	1.93	1.93	1.92	1.92	1.92	1.92	1.93	1.95	1.97	1.98	1.99	2.00				

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

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

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

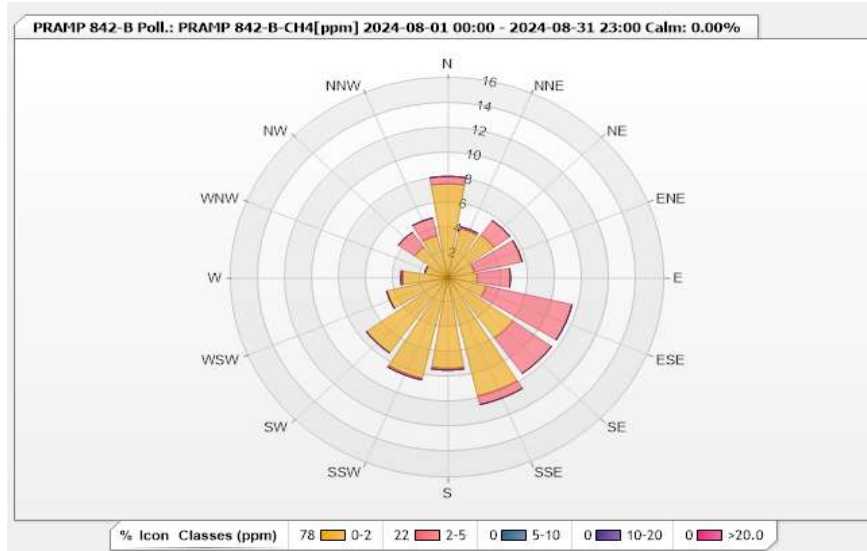


Station: PRAMP 842-B Poll.: PRAMP 842-B-CH4[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 92.74% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	7.54	0.58	0	0	0	8.12
NNE	4.06	0.14	0	0	0	4.2
NE	4.2	1.45	0	0	0	5.65
ENE	2.03	3.62	0	0	0	5.65
E	2.17	2.46	0	0	0	4.63
ESE	2.9	6.52	0	0	0	9.42
SE	5.94	3.48	0	0	0	9.42
SSE	9.71	0.72	0	0	0	10.43
S	7.25	0.14	0	0	0	7.39
SSW	8.26	0.14	0	0	0	8.4
SW	7.39	0	0	0	0	7.39
WSW	4.64	0	0	0	0	4.64
W	3.33	0.14	0	0	0	3.47
WNW	1.74	0	0	0	0	1.74
NW	3.04	1.45	0	0	0	4.49
NNW	3.48	1.45	0	0	0	4.93
Summary	77.68	22.29	0	0	0	100



Peace River Area Monitoring Program

842-B Station - August 2024

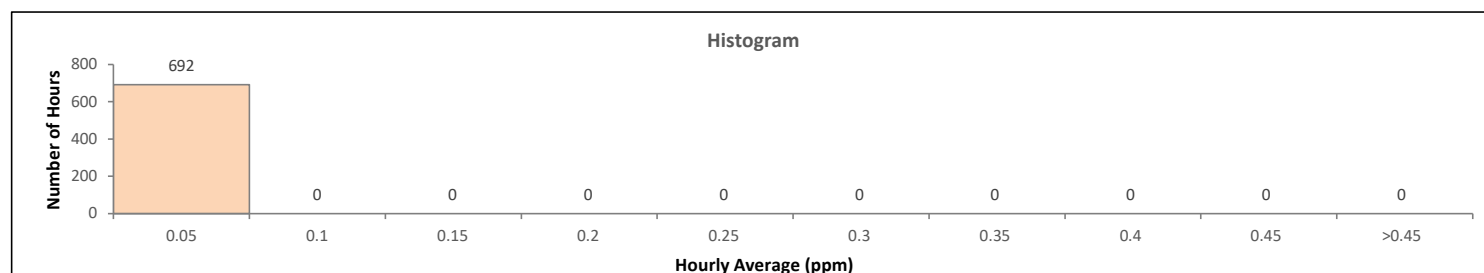
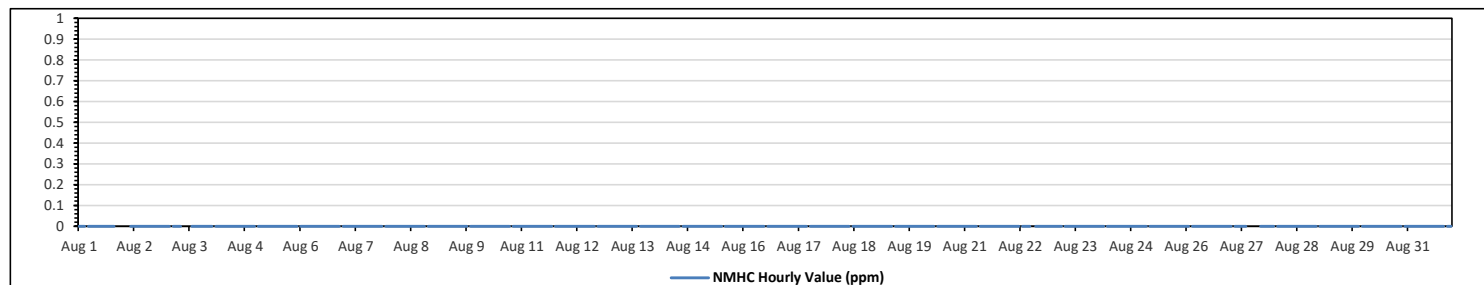
Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

Maximum Hourly Value:	0.00	ppm	on Aug 1 at hr 0	Hours in Service:	744																					
Maximum Daily Value:	0.00	ppm	on Aug 1	Hours of Data:	692																					
Minimum Hourly Value:	0.00	ppm	on Aug 1 at hr 0	Hours of Missing Data:	14																					
Minimum Daily Value:	0.00	ppm	on Aug 1	Hours of Calibration:	38																					
Monthly Average:	0.00	ppm		Operational Uptime:	98.1																					
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
Aug 1	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	0.00	P	P	0.00	0.00	0.00
Aug 2	X	X	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 3	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	C	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 4	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 5	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	
Aug 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	
Aug 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	
Aug 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	
Aug 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	S	0.00	0.00	0.00	0.00	0.00	
Aug 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	S	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 21	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 22	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	Y	X	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 23	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 24	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 25	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 26	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 27	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	NRM	NRM	NRM	NRM	NRM	NRM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	
Aug 28	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	
Aug 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	
Aug 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	
Aug 31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	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	0.00	
Diurnal Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance									
K	Collection Error							ND	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure	
X	Invalid Data (Equipment Malfunction / Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																	
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																										
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																										

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

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

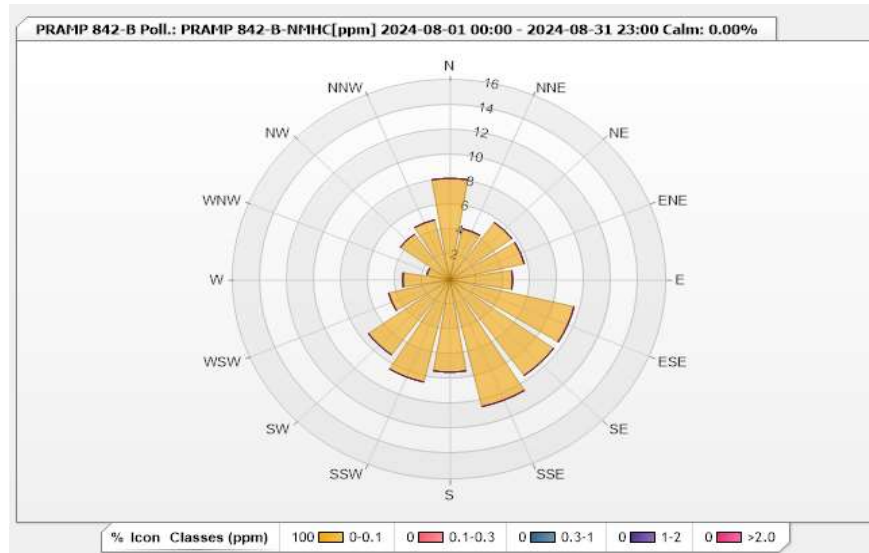


Station: PRAMP 842-B Poll.: PRAMP 842-B-NMHC[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 92.74% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	8.12	0	0	0	0	8.12
NNE	4.2	0	0	0	0	4.2
NE	5.65	0	0	0	0	5.65
ENE	5.65	0	0	0	0	5.65
E	4.64	0	0	0	0	4.64
ESE	9.42	0	0	0	0	9.42
SE	9.42	0	0	0	0	9.42
SSE	10.43	0	0	0	0	10.43
S	7.39	0	0	0	0	7.39
SSW	8.41	0	0	0	0	8.41
SW	7.39	0	0	0	0	7.39
WSW	4.64	0	0	0	0	4.64
W	3.48	0	0	0	0	3.48
WNW	1.74	0	0	0	0	1.74
NW	4.49	0	0	0	0	4.49
NNW	4.93	0	0	0	0	4.93
Summary	100	0	0	0	0	100



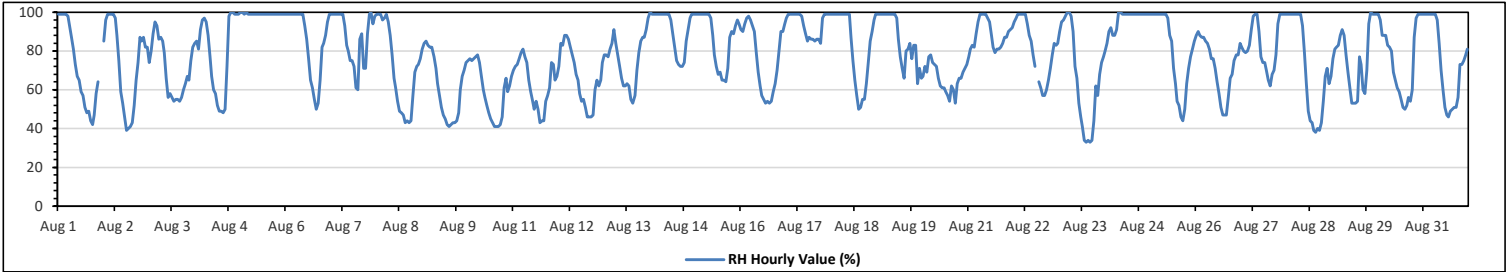
Peace River Area Monitoring Program

842-B Station - August 2024

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Aug 4 at hr 19	Hours in Service:	744																											
Maximum Daily Value:	99.1	%	on Aug 5	Hours of Data:	741																											
Minimum Hourly Value:	33	%	on Aug 23 at hr 14	Hours of Missing Data:	3																											
Minimum Daily Value:	59.5	%	on Aug 10	Hours of Calibration:	0																											
Monthly Average:	77.8	%		Operational Uptime:	99.6																											
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average						
Aug 1	99	99	99	99	99	98	93	87	81	73	67	65	59	57	51	48	49	44	42	47	58	64	P	P	42	99	71.7					
Aug 2	85	96	99	99	99	99	97	88	75	59	53	46	39	40	41	43	52	65	74	87	85	87	82	82	39	99	73.8					
Aug 3	74	80	89	95	93	86	87	85	79	66	56	58	56	54	55	55	54	56	60	63	67	65	75	82	54	95	70.4					
Aug 4	84	85	81	91	96	97	95	88	77	67	60	58	52	49	49	48	50	72	98	100	100	99	99	99	48	100	78.9					
Aug 5	100	100	99	100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	100	99.1					
Aug 6	99	99	99	99	99	99	99	99	99	99	93	86	76	65	61	55	50	53	65	82	84	88	95	99	50	99	85.1					
Aug 7	99	99	99	99	99	99	99	99	93	83	80	75	75	72	61	60	86	89	71	71	89	99	100	94	98	60	100	87.0				
Aug 8	99	99	99	99	96	97	99	95	88	78	66	61	54	49	48	47	43	44	43	44	57	69	72	73	76	43	99	70.7				
Aug 9	81	84	85	83	82	82	77	71	63	57	51	47	45	42	41	42	43	43	44	48	60	67	70	74	41	85	61.8					
Aug 10	75	76	75	76	77	78	74	67	60	56	52	48	45	43	41	41	41	42	46	61	66	59	62	67	41	78	59.5					
Aug 11	70	72	73	76	79	81	77	74	65	59	55	50	54	50	43	44	44	54	57	61	74	73	65	67	43	81	63.2					
Aug 12	72	84	83	88	88	86	82	78	74	68	65	58	54	55	51	46	46	46	47	60	65	62	65	74	46	88	66.5					
Aug 13	78	78	77	81	84	91	84	78	72	66	62	62	63	62	55	53	57	70	79	85	87	87	91	97	53	97	75.0					
Aug 14	100	99	99	99	99	99	99	99	99	99	99	96	89	82	75	73	72	72	74	85	91	97	99	99	72	100	91.4					
Aug 15	99	99	99	99	99	99	99	99	97	88	78	72	68	69	65	65	64	71	87	90	89	93	96	94	64	99	86.6					
Aug 16	91	90	94	97	98	96	93	90	79	69	62	57	55	53	54	53	54	59	63	70	80	90	90	94	53	98	76.3					
Aug 17	97	99	99	99	99	99	99	99	98	93	89	85	87	86	86	85	86	86	84	97	99	99	99	99	84	99	93.7					
Aug 18	99	99	99	99	99	99	99	99	99	99	87	75	65	57	50	51	55	55	63	74	85	90	96	99	50	99	83.0					
Aug 19	99	99	99	99	99	99	99	99	99	99	97	86	77	71	66	80	81	84	76	83	83	63	71	66	63	99	86.4					
Aug 20	67	72	69	77	78	74	73	72	66	62	61	61	59	57	54	62	60	53	63	66	66	69	71	73	53	78	66.0					
Aug 21	77	81	83	82	89	95	99	99	99	99	97	95	88	82	79	81	81	82	84	87	87	90	91	92	77	99	88.3					
Aug 22	95	97	99	99	99	99	99	94	88	85	78	72	Y	64	61	57	57	60	65	71	78	84	83	84	57	99	81.2					
Aug 23	90	95	96	98	100	100	98	90	72	66	53	46	41	34	33	34	33	34	44	62	57	68	74	77	33	100	66.5					
Aug 24	80	84	90	92	88	88	91	100	100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	80	100	95.8					
Aug 25	99	99	99	99	99	99	99	99	99	97	88	85	71	63	54	52	46	44	50	63	71	77	81	85	44	99	79.9					
Aug 26	88	90	88	87	87	85	84	81	76	76	71	64	58	51	47	47	47	56	66	68	75	78	78	84	47	90	72.2					
Aug 27	82	80	79	80	83	91	98	99	99	99	90	77	74	74	70	65	62	68	70	78	94	99	99	99	62	99	83.7					
Aug 28	99	99	99	99	99	99	99	99	93	79	63	49	44	43	39	38	40	39	43	54	67	71	63	67	38	99	70.2					
Aug 29	76	81	82	83	88	91	88	78	69	61	53	53	53	54	77	73	60	58	70	94	100	99	99	99	53	100	76.6					
Aug 30	99	96	88	88	88	83	82	80	69	65	61	59	55	51	50	52	56	54	60	87	97	99	99	99	50	99	75.7					
Aug 31	99	99	99	99	99	99	99	96	84	70	60	51	47	46	49	50	51	51	56	73	73	75	78	81	46	99	74.3					
Diurnal Maximum	100	100	99	100	100	100	99	100	100	99	99	99	99	99	99	99	99	99	99	100	100	100	99	99								
Diurnal Average	88.7	90.6	90.9	92.2	92.9	93.2	92.1	89.3	83.5	77.8	71.7	67.3	63.1	59.9	58.0	58.6	59.0	60.8	66.2	76.0	80.9	82.6	84.5	86.8								
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



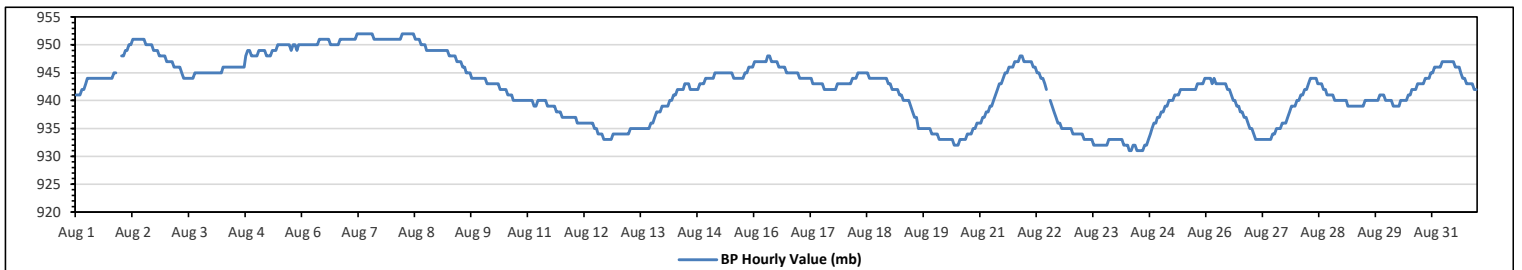
Peace River Area Monitoring Program

842-B Station - August 2024

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	952	mb	on Aug 7 at hr 5	Hours in Service:	744																											
Maximum Daily Value:	951	mb	on Aug 7	Hours of Data:	741																											
Minimum Hourly Value:	931	mb	on Aug 24 at hr 7	Hours of Missing Data:	3																											
Minimum Daily Value:	933	mb	on Aug 24	Hours of Calibration:	0																											
Monthly Average:	942	mb		Operational Uptime:	99.6																											
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average					
Aug 1	941	941	941	942	942	943	944	944	944	944	944	944	944	944	944	944	944	944	944	944	945	945	P	P	941	945	943					
Aug 2	948	948	949	949	950	950	951	951	951	951	951	951	951	950	950	950	950	949	949	949	948	948	948	948	948	951	950					
Aug 3	947	947	947	947	946	946	946	946	945	944	944	944	944	944	944	945	945	945	945	945	945	945	945	945	944	947	945					
Aug 4	945	945	945	945	945	945	946	946	946	946	946	946	946	946	946	946	946	946	948	949	949	948	948	948	945	949	946					
Aug 5	948	949	949	949	949	948	948	948	949	949	949	950	950	950	950	950	950	950	949	950	950	949	950	950	948	950	949					
Aug 6	950	950	950	950	950	950	950	950	950	951	951	951	951	951	951	950	950	950	950	950	951	951	951	951	950	951	950					
Aug 7	951	951	951	951	951	952	952	952	952	952	952	952	952	952	951	951	951	951	951	951	951	951	951	951	951	952	951					
Aug 8	951	951	951	951	951	952	952	952	952	952	952	952	952	951	951	951	950	950	950	949	949	949	949	949	949	952	951					
Aug 9	949	949	949	949	949	949	948	948	948	948	947	947	947	947	946	946	945	945	945	944	944	944	944	944	944	949	947					
Aug 10	944	944	943	943	943	943	943	943	943	942	942	942	942	941	941	941	940	940	940	940	940	940	940	940	940	944	942					
Aug 11	940	940	940	939	939	940	940	940	940	940	939	939	939	939	939	938	938	938	937	937	937	937	937	937	937	940	939					
Aug 12	937	937	936	936	936	936	936	936	936	936	936	935	935	934	934	934	933	933	933	933	933	934	934	934	933	937	935					
Aug 13	934	934	934	934	934	934	935	935	935	935	935	935	935	935	935	935	935	936	936	937	938	938	938	938	939	934	939					
Aug 14	939	939	939	940	940	941	941	942	942	942	942	943	943	943	942	942	942	942	942	943	943	943	944	944	939	944	942					
Aug 15	944	944	944	945	945	945	945	945	945	945	945	945	945	944	944	944	944	944	944	945	945	946	946	946	944	946	945					
Aug 16	947	947	947	947	947	947	947	948	948	947	947	947	947	946	946	946	946	945	945	945	945	945	945	945	945	948	946					
Aug 17	944	944	944	944	944	944	944	943	943	943	943	943	943	942	942	942	942	942	942	942	942	943	943	943	942	944	943					
Aug 18	943	943	943	943	944	944	944	945	945	945	945	945	945	944	944	944	944	944	944	944	944	944	944	943	943	945	944					
Aug 19	943	942	942	942	942	941	941	940	940	940	940	939	938	937	937	935	935	935	935	935	935	935	934	934	934	943	938					
Aug 20	934	934	933	933	933	933	933	933	933	933	932	932	932	933	933	933	933	934	934	934	935	935	936	936	932	936	934					
Aug 21	936	937	937	938	938	939	939	940	941	942	943	943	944	945	945	946	946	946	947	947	947	948	948	947	936	948	943					
Aug 22	947	947	947	947	946	946	945	945	944	944	943	942	Y	940	939	938	937	936	936	935	935	935	935	935	935	935	941					
Aug 23	935	934	934	934	934	934	934	933	933	933	933	933	932	932	932	932	932	932	932	932	932	933	933	933	932	935	933					
Aug 24	933	933	933	933	932	932	932	931	931	932	932	931	931	931	931	932	932	933	934	935	936	936	937	937	931	937	933					
Aug 25	938	938	939	939	940	940	940	941	941	941	942	942	942	942	942	942	942	942	942	942	943	943	943	944	938	944	941					
Aug 26	944	944	944	943	944	943	943	943	943	943	943	942	942	941	940	939	939	938	938	937	937	936	935	935	944	941						
Aug 27	935	934	933	933	933	933	933	933	933	933	933	934	934	935	935	935	936	936	936	937	938	939	939	939	933	939	935					
Aug 28	940	940	941	941	942	942	943	944	944	944	944	943	943	943	942	941	941	941	941	940	940	940	940	940	940	944	942					
Aug 29	940	940	940	939	939	939	939	939	939	939	939	939	939	940	940	940	940	940	940	940	941	941	941	941	939	941	940					
Aug 30	940	940	940	939	939	939	939	940	940	940	940	941	941	942	942	942	943	943	943	944	944	944	945	939	945	941						
Aug 31	945	946	946	946	946	947	947	947	947	947	947	947	946	946	946	945	944	944	943	943	943	943	942	942	942	947	945					
Diurnal Maximum	951	951	951	951	951	952	952	952	952	952	952	952	952	952	951	951	951	951	951	951	951	951	951	951	951							
Diurnal Average	942	942	942	942	942	943	943	943	943	943	943	943	943	942	942	942	942	942	942	942	942	942	942	942	942							
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
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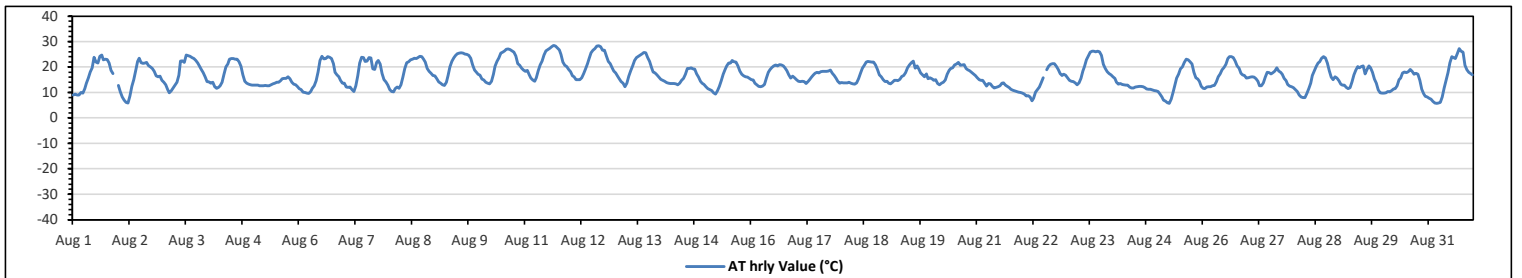
Peace River Area Monitoring Program

842-B Station - August 2024

Summary of Hourly Averages

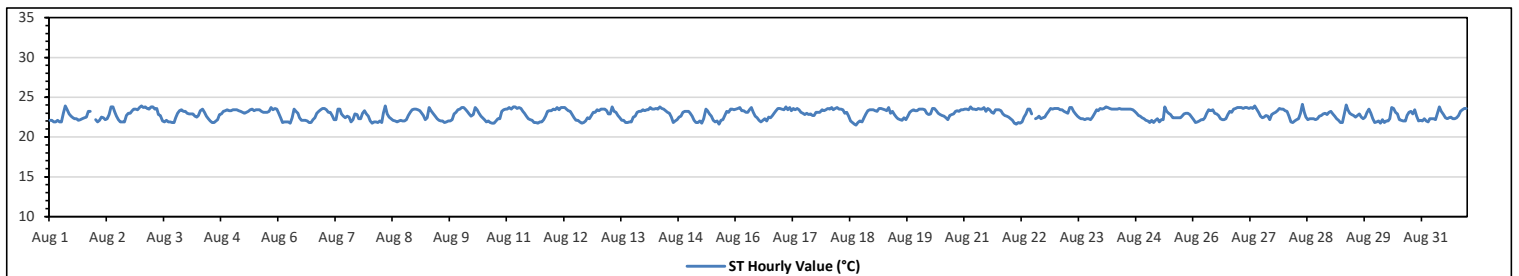
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	28.5	°C	on Aug 11 at hr 15	Hours in Service:	744																											
Maximum Daily Value:	22.0	°C	on Aug 11	Hours of Data:	741																											
Minimum Hourly Value:	5.8	°C	on Aug 25 at hr 6	Hours of Missing Data:	3																											
Minimum Daily Value:	12.5	°C	on Aug 24	Hours of Calibration:	0																											
Monthly Average:	16.9	°C		Operational Uptime:	99.6																											
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average					
Aug 1	9.1	9.4	9	9.1	10	9.7	11.5	13.6	15.7	18.1	19.7	23.9	22	21.6	24.2	24.8	22.8	23.1	22.9	21.5	18.7	17.4	P	P	9.0	24.8	17.2					
Aug 2	12.8	10.3	8.2	7	6.2	5.9	8.6	12.4	15.1	18.6	22.2	23.5	21.7	21.4	21.6	21.8	20.6	20	19.4	18.3	16.5	16.2	16.4	14.8	5.9	23.5	15.8					
Aug 3	14.1	13.1	11.1	9.9	10.6	11.8	12.9	14.1	16.8	22.4	22.5	21.8	24.7	24.5	24.2	23.7	23.3	22.6	21.6	20.5	19	17.8	16.1	14.3	9.9	24.7	18.1					
Aug 4	14.2	13.7	14	12.3	11.7	12	12.7	14.1	17.2	20.1	21.2	23.1	23.3	23.4	23.1	23.1	22.1	20.3	17	14.4	13.7	13.3	13.1	13	11.7	23.4	16.9					
Aug 5	12.9	12.9	12.9	12.7	12.6	12.6	12.8	12.6	12.7	13.1	13.4	13.6	14	14.1	14.6	15.4	15.6	15.6	16.2	15.5	14.1	13.3	13.1	12.3	12.3	16.2	13.7					
Aug 6	11.6	11.2	10.1	10	9.8	9.6	10.5	11.7	12.6	14.6	18.1	22.6	24.2	23.2	23.4	24.1	23.9	23.3	21.3	17.9	17	16.1	14.8	13.6	9.6	24.2	16.5					
Aug 7	13.6	12.1	12	12.1	11.2	10.5	12.7	16.6	21.5	23.9	23.8	22.3	22.4	23.7	23.6	19.3	19.1	21.8	22.6	21.2	17.4	15.1	14.2	12.9	10.5	23.9	17.7					
Aug 8	11.2	10.4	10.3	11.6	12.1	11.7	13.1	16	19.5	21.7	22.1	22.8	23.1	23.5	23.3	23.7	24.2	24	23.2	21.9	19.4	18.4	17.6	16.7	10.3	24.2	18.4					
Aug 9	16.5	15.4	14.2	13.6	13.1	12.8	14.1	16.6	20.1	22.3	23.6	24.5	25.3	25.5	25.6	25.5	25.2	25	24.6	23.5	20.9	18.8	17.9	17.2	12.8	25.6	20.1					
Aug 10	16.8	15.3	14.9	14.1	13.7	13.4	14.4	17.2	20.3	22.2	23.6	25.5	25.9	26.4	27	27.1	26.8	26.4	25.9	24.4	21.3	20.7	19.6	18.8	13.4	27.1	20.9					
Aug 11	18.3	18.7	16.9	15.7	14.9	14.4	15.8	18.6	20.8	22.4	24.7	26.4	26.8	27.4	28	28.5	28.2	27.5	26.7	25	21.9	20.7	20.2	19.1	14.4	28.5	22.0					
Aug 12	18.2	16.6	16.2	15.1	15	15	15.9	17.4	19.3	21.3	23.4	25.6	26.6	27.3	28.2	28.3	28	26.6	26.6	24.3	22.3	21.3	19.8	18.5	15.0	28.3	21.5					
Aug 13	17.7	16.4	15.5	14.3	13.6	12.3	13.6	16.4	18.6	20.5	22.6	23.8	24.2	24.8	25.3	25.7	25.6	23.7	22.3	19.9	18.1	17.7	16.9	16	12.3	25.7	19.4					
Aug 14	15.2	14.8	14.5	13.9	13.7	13.5	13.5	13.5	13.4	13.1	13.7	14.7	15.6	17.2	19.4	19.5	19.8	19.3	19.2	17.3	16	14.4	13.6	13.2	13.1	19.8	15.5					
Aug 15	12.3	11.6	11.2	10.7	9.9	9.4	10.6	12.4	14.6	17.2	19	20.5	21.6	21.6	22.6	22.1	22	20.4	18.5	17.2	16.6	16.1	16	15.6	9.4	22.6	16.2					
Aug 16	15.1	14.9	13.7	13.1	12.4	12.2	12.5	13.2	15.7	18	18.9	19.9	20.5	20.9	20.5	21	20.8	20.5	19.7	18.6	16.9	15.7	16.4	15.9	12.2	21.0	17.0					
Aug 17	15.1	14.4	14.3	14.4	14.3	13.5	14.3	15	16	17	17.6	17.9	17.7	18.2	18.3	18.4	18.4	18.5	18.8	17.5	16.7	15.6	14.4	13.6	13.5	18.8	16.2					
Aug 18	13.9	13.8	13.8	13.8	14	13.7	13.4	13.3	13.8	15.5	17.6	19.6	20.7	21.9	22.3	22.1	21.9	22	20.8	19	17	16.1	15.1	14.3	13.3	22.3	17.1					
Aug 19	14.4	13.6	13.4	14	14.8	14.7	14.6	15.2	16.3	16.7	17.8	19.7	20.9	21.7	22.4	19.6	20.5	19.1	17.7	16.9	16.2	17.3	15.4	15.8	13.4	22.4	17.0					
Aug 20	15.5	14.7	15	13.5	13.1	13.7	14	14.9	17.2	18.7	19.4	19.8	20.8	21.2	21.8	20.7	20.9	21	19.4	18.9	18.6	17.9	17.3	16.7	13.1	21.8	17.7					
Aug 21	15.8	15.1	14.7	14.8	13.6	12.5	13.5	13.4	12.4	11.8	12	12.3	12.6	13.6	13.8	13	12.4	11.9	11.3	10.9	10.6	10.4	10.2	10	10.0	15.8	12.6					
Aug 22	9.8	9.3	8.6	8.8	8.2	6.7	7.8	10.1	11.1	12.1	13.9	15.9	Y	18.9	20.3	21.1	21.3	21.3	20.3	19	17.4	16.7	17.2	16.8	6.7	21.3	14.5					
Aug 23	15.8	14.7	14.5	14.3	13.8	13.1	13.8	15.6	18.5	20.2	22.8	24.3	25.8	26.3	26.3	26	26.2	26	24.6	21.1	19.4	18.2	17.4	16.9	13.1	26.3	19.8					
Aug 24	16.2	15.6	14.1	13.3	13.5	13.2	13.1	13	13	12.1	11.8	11.8	12.1	12.2	12.4	12.4	12.2	11.9	11.4	11.3	11.3	11	10.8	10.6	10.6	16.2	12.5					
Aug 25	10.4	9.4	8.3	7	6.6	6	5.8	7.4	10.2	13.2	15.7	17.2	19.3	20.1	21.8	23.1	22.8	22.1	21.2	18	15.9	15.3	14.5	12.4	5.8	23.1	14.3					
Aug 26	11.7	11.6	12.1	12.2	12.3	12.7	12.8	14.2	16.2	17.3	18.9	19.9	21.1	23.3	24.1	24.1	23.7	22.4	20.4	19.6	17.6	16.9	16.7	15.7	11.6	24.1	17.4					
Aug 27	15.9	16	16.2	16	15.4	14.4	12.7	12.7	13.8	16	18	17.8	17.3	17.8	18.5	19.8	18.5	18	17.2	15.6	14.6	13.2	12.5	12.2	12.2	19.8	15.8					
Aug 28	11.9	11.2	10.4	9.1	8.3	8	7.9	9.6	11.6	13.7	16.7	18.5	20.2	21.6	22.1	23.5	24	23.6	21.6	18.6	16	15.1	16.2	15.2	7.9	24.0	15.6					
Aug 29	14.6	13.3	12.9	13	12	11.5	11.9	14.2	17	18.8	20.2	19.7	20.2	20.5	17.3	19.1	20.5	19.7	18	15.3	13.7	11	9.9	9.7	9.7	20.5	15.6					
Aug 30	9.7	9.9	10.5	10.3	10.7	11.4	11.6	12.7	15	15.7	17.7	18.1	17.8	18.2	19.1	18.3	17.2	17.6	17.2	14.7	11.3	9.5	8.5	8.2	8.2	19.1	13.8					
Aug 31	7.8	7.4	6.5	5.9	5.8	5.9	6.1	8.3	11.8	14.7	17.8	21.7	24	23.8	23.3	25.3	27.2	26.2	25.8	20.7	18.9	18	17.4	16.9	5.8	27.2	16.1					
Diurnal Maximum	18.3	18.7	16.9	16.0	15.4	15.0	15.9	18.6	21.5	23.9	24.7	26.4	26.8	27.4	28.2	28.5	28.2	27.5	26.7	25.0	22.3	21.3	20.2	19.1								
Diurnal Average	13.8	13.1	12.6	12.1	11.8	11.5	12.2	13.7	15.7	17.5	19.0	20.3	21.1	21.5	21.9	21.9	21.8	21.3	20.4	18.7	16.9	16.0	15.3	14.6								
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



Peace River Area Monitoring Program
842-B Station - August 2024
Summary of Hourly Averages
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	24.1	°C	on Aug 28 at hr 9	Hours in Service:	744																								
Maximum Daily Value:	23.3	°C	on Aug 5	Hours of Data:	741																								
Minimum Hourly Value:	21.5	°C	on Aug 18 at hr 15	Hours of Missing Data:	3																								
Minimum Daily Value:	22.4	°C	on Aug 8	Hours of Calibration:	0																								
Monthly Average:	22.8	°C		Operational Uptime:	99.6																								
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
Aug 1	22.1	22.1	21.9	21.9	22.1	21.9	21.9	23.0	23.9	23.4	22.9	22.6	22.4	22.3	22.3	22.1	22.2	22.3	22.4	22.5	23.2	23.2	P	P	21.9	23.9	22.5		
Aug 2	22.2	21.9	22.1	22.5	22.4	22.2	22.3	22.8	23.8	23.8	23.1	22.6	22.2	21.9	21.9	21.9	22.7	23.0	23.0	23.3	23.5	23.5	23.4	23.7	21.9	23.8	22.7		
Aug 3	23.9	23.7	23.8	23.6	23.5	23.8	23.8	23.5	23.6	22.8	22.7	22.0	21.9	22.1	21.9	21.9	21.8	21.8	22.4	23.0	23.3	23.4	23.2	23.2	21.8	23.9	22.9		
Aug 4	23.0	22.9	22.9	22.9	22.6	22.5	22.7	23.3	23.5	23.1	22.6	22.3	22.0	21.8	21.8	22.0	22.2	22.8	22.9	23.2	23.3	23.4	23.3	23.3	21.8	23.5	22.8		
Aug 5	23.4	23.4	23.4	23.3	23.2	23.1	23.0	23.1	23.2	23.4	23.5	23.3	23.4	23.4	23.4	23.2	23.1	23.1	23.1	23.2	23.7	23.4	23.6	23.5	23.0	23.7	23.3		
Aug 6	23.0	22.4	21.8	21.9	21.9	21.9	21.7	22.4	23.5	23.2	23.0	22.4	22.1	22.1	22.1	22.0	21.8	21.8	22.2	22.4	23.0	23.2	23.4	23.6	21.7	23.6	22.5		
Aug 7	23.6	23.4	23.1	23.1	22.7	22.2	22.2	23.5	23.5	22.9	22.6	22.4	22.6	22.5	21.9	22.2	22.9	22.8	22.3	23.3	23.0	23.3	22.9	22.6	21.9	23.6	22.8		
Aug 8	22.0	21.7	21.9	21.9	21.8	22.0	21.8	23.0	23.9	22.9	22.5	22.3	22.1	22.0	21.9	22.0	22.1	22.0	22.0	22.2	22.7	23.1	23.4	23.5	21.7	23.9	22.4		
Aug 9	23.5	23.4	23.3	23.0	22.7	22.2	22.4	23.7	23.3	23.0	22.6	22.3	22.1	22.0	22.0	21.8	21.9	22.0	22.0	22.2	22.9	23.1	23.4	23.5	21.8	23.7	22.7		
Aug 10	23.7	23.7	23.5	23.2	22.9	22.6	22.8	23.7	23.4	23.0	22.6	22.4	22.2	21.9	22.0	21.8	21.7	21.7	22.0	22.3	22.3	23.2	23.4	23.5	21.7	23.7	22.7		
Aug 11	23.5	23.7	23.5	23.8	23.8	23.6	23.7	23.6	23.2	23.0	22.6	22.3	22.2	22.1	21.8	21.8	21.7	21.9	21.9	22.2	22.6	23.2	23.3	23.3	21.7	23.8	22.8		
Aug 12	23.5	23.4	23.7	23.4	23.7	23.7	23.7	23.5	23.3	23.2	22.8	22.4	22.1	22.1	21.9	21.7	21.8	22.0	22.4	22.3	22.7	23.1	23.1	23.4	21.7	23.7	22.9		
Aug 13	23.3	23.5	23.5	23.5	23.3	22.9	22.9	23.8	23.2	23.1	22.7	22.4	22.1	22.1	21.8	21.8	21.9	21.9	22.5	22.6	23.1	23.2	23.2	23.4	21.8	23.8	22.8		
Aug 14	23.3	23.4	23.4	23.7	23.5	23.5	23.6	23.5	23.8	23.6	23.5	23.3	23.1	23.0	22.5	21.8	22.0	22.2	22.5	22.6	23.1	23.2	23.2	23.2	21.8	23.8	23.1		
Aug 15	23.0	22.6	22.1	21.8	21.8	22.0	21.7	22.3	23.5	23.3	22.9	22.6	22.1	21.9	22.0	21.6	22.1	22.2	22.7	23.2	23.1	23.5	23.5	23.4	21.6	23.5	22.5		
Aug 16	23.5	23.6	23.7	23.3	23.3	23.1	23.1	23.4	23.7	23.1	22.6	22.4	22.1	21.9	22.1	22.3	22.0	22.5	22.4	22.7	23.0	23.3	23.6	23.6	21.9	23.7	22.9		
Aug 17	23.5	23.4	23.8	23.4	23.7	23.3	23.6	23.4	23.6	23.4	23.1	23.0	22.8	23.0	22.8	22.9	22.7	22.7	23.1	23.1	23.1	23.4	23.3	23.4	22.7	23.8	23.2		
Aug 18	23.6	23.5	23.7	23.4	23.6	23.7	23.5	23.5	23.4	23.0	23.1	22.6	22.0	21.8	21.6	21.5	21.8	22.0	21.9	22.4	22.9	23.3	23.4	23.4	21.5	23.7	22.9		
Aug 19	23.4	23.3	23.2	23.6	23.6	23.5	23.4	23.3	23.7	23.0	23.2	22.8	22.5	22.3	22.2	22.1	22.4	22.2	22.6	23.1	23.3	23.4	23.3	23.3	22.1	23.7	23.0		
Aug 20	23.5	23.5	23.5	23.4	23.0	22.8	22.9	23.6	23.6	23.3	23.0	22.8	22.7	22.6	22.4	22.2	22.7	22.8	22.9	23.2	23.3	23.2	23.4	23.4	22.2	23.6	23.1		
Aug 21	23.5	23.5	23.4	23.8	23.5	23.5	23.4	23.6	23.5	23.5	23.7	23.2	23.6	23.4	23.1	23.0	23.4	23.4	23.4	23.3	22.9	22.7	22.6	22.5	22.5	23.8	23.3		
Aug 22	22.3	22.1	21.7	21.6	21.8	21.7	21.9	22.5	22.9	23.5	23.5	22.9	Y	22.3	22.4	22.6	22.3	22.4	22.5	22.9	23.2	23.6	23.5	23.6	21.6	23.6	22.6		
Aug 23	23.6	23.6	23.4	23.4	23.2	23.1	23.0	23.7	23.7	23.2	22.9	22.6	22.4	22.3	22.3	22.2	22.3	22.3	22.2	22.5	23.0	23.4	23.3	23.6	22.2	23.7	23.0		
Aug 24	23.5	23.6	23.8	23.7	23.6	23.5	23.5	23.5	23.5	23.6	23.5	23.5	23.5	23.5	23.5	23.5	23.4	23.2	23.0	22.7	22.6	22.4	22.3	22.1	22.1	23.8	23.3		
Aug 25	22.0	21.8	22.1	21.8	22.1	22.3	21.9	22.2	22.2	23.8	23.2	23.0	22.8	22.4	22.4	22.4	22.4	22.4	22.6	22.9	23.0	23.0	22.8	22.5	21.8	23.8	22.5		
Aug 26	22.2	21.8	21.9	22.0	22.2	22.2	22.4	23.0	23.4	23.3	23.4	23.0	22.9	22.7	22.3	22.2	22.2	22.3	22.8	23.2	23.1	23.5	23.6	23.7	21.8	23.7	22.7		
Aug 27	23.7	23.7	23.6	23.7	23.7	23.6	23.7	23.6	23.9	23.5	23.1	22.6	22.4	22.5	22.7	22.6	22.2	22.8	23.0	23.1	23.3	23.6	23.5	23.5	22.2	23.9	23.2		
Aug 28	23.3	23.2	22.6	21.9	21.8	22.0	22.2	22.3	23.0	24.1	23.1	22.5	22.2	22.3	22.3	22.3	22.2	22.3	22.6	22.7	22.9	23.0	22.8	23.1	21.8	24.1	22.6		
Aug 29	23.2	22.9	22.6	22.3	22.1	21.8	21.8	22.9	24.0	23.4	23.0	22.8	22.7	22.5	22.7	22.9	22.5	22.3	22.5	23.1	23.5	23.0	22.3	21.8	21.8	24.0	22.7		
Aug 30	21.9	22.0	21.7	22.2	21.8	22.0	22.0	22.3	23.7	23.6	23.1	22.9	22.2	22.1	22.0	22.0	22.7	23.1	23.2	22.9	23.4	22.6	22.0	22.1	21.7	23.7	22.5		
Aug 31	22.0	22.3	22.0	21.9	22.3	22.3	22.3	22.2	23.0	23.8	23.2	22.8	22.4	22.3	22.4	22.5	22.3	22.3	22.4	22.7	23.2	23.4	23.6	23.6	21.9	23.8	22.6		
Diurnal Maximum	23.9	23.7	23.8	23.8	23.8	23.8	23.8	23.8	24.0	24.1	23.7	23.5	23.6	23.5	23.5	23.5	23.4	23.4	23.4	23.3	23.7	23.6	23.6	23.7					
Diurnal Average	23.1	23.0	22.9	22.9	22.8	22.7	22.7	23.2	23.5	23.3	23.0	22.7	22.5	22.4	22.3	22.2	22.3	22.4	22.6	22.8	23.1	23.2	23.2	23.2					
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance														
K	Collection Error						ND	No Data (Machine Not in Service)						Y	Routine Maintenance														
X	Invalid Data (Equipment Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)													P	Power Failure							
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																													



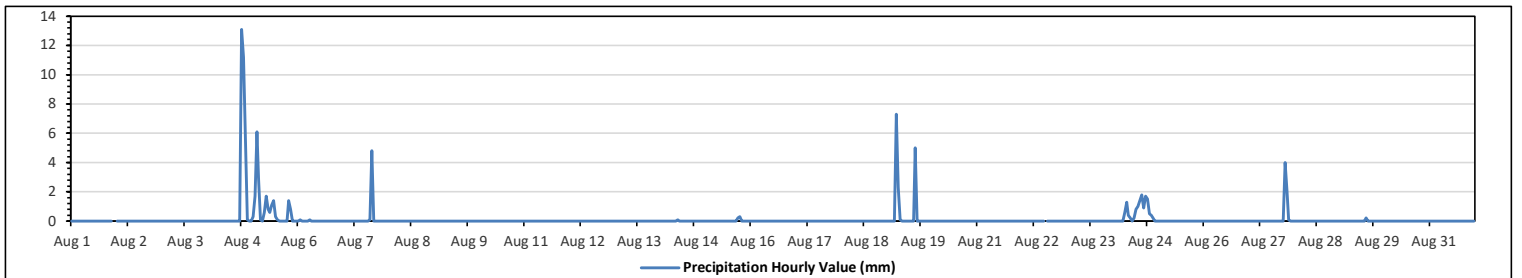
Peace River Area Monitoring Program

842-B Station - August 2024

Summary of Hourly Averages

PRECIPITATION in mm

Maximum Hourly Value:	13.1	mm	on Aug 4 at hr 18	Hours in Service:	744																											
Maximum Daily Value:	30.0	mm	on Aug 4	Hours of Data:	741																											
Minimum Hourly Value:	0.0	mm	on Aug 1 at hr 0	Hours of Missing Data:	3																											
Minimum Daily Value:	0.0	mm	on Aug 1	Hours of Calibration:	0																											
Monthly Total:	89.5	mm		Operational Uptime:	99.6																											
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Total						
Aug 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	P	P	0.0	0.0	0.0						
Aug 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					
Aug 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					
Aug 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.1	11.2	5.6	0.1	0	0	0.0	13.1	30.0					
Aug 5	0.3	1.7	6.1	2.9	0.1	0	0.6	1.7	0.8	0.6	1.1	1.4	0.3	0.1	0	0	0	0	0	1.4	0.8	0	0	0	0.0	6.1	19.9					
Aug 6	0	0.1	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.2					
Aug 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	4.8	0	0	0	0	0	0	0	0.0	4.8	4.9					
Aug 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					
Aug 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					
Aug 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					
Aug 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					
Aug 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					
Aug 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0					
Aug 14	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	0.1					
Aug 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	0	0	0	0	0	0.0	0.3	0.5					
Aug 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0					
Aug 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					
Aug 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					
Aug 19	0	0	0	0	0	7.3	2.3	0.1	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0.0	7.3	14.7					
Aug 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					
Aug 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					
Aug 22	0	0	0	0	0	0	0	0	0	0	0	0	Y	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0					
Aug 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					
Aug 24	0	0	0	0	0	0	0.6	1.3	0.4	0.2	0	0.2	0.8	1	1.4	1.8	0.9	1.7	1.5	0.5	0.4	0.2	0	0	0.0	1.8	12.9					
Aug 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					
Aug 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					
Aug 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0.1	0	0	0.0	4.0	6.1					
Aug 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					
Aug 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0.0	0.2	0.2					
Aug 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					
Aug 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	0.3	1.7	6.1	2.9	0.1	7.3	2.3	1.7	0.8	0.6	1.1	1.4	0.8	1.0	1.4	5.0	0.9	1.7	13.1	11.2	5.6	0.2	0.0	0.0								
Diurnal Average	0.0	0.1	0.2	0.1	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.4	0.0	0.1	0.5	0.6	0.3	0.0	0.0	0.0								
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



Peace River Area Monitoring Program

842-B Station - August 2024

Summary of Hourly Averages

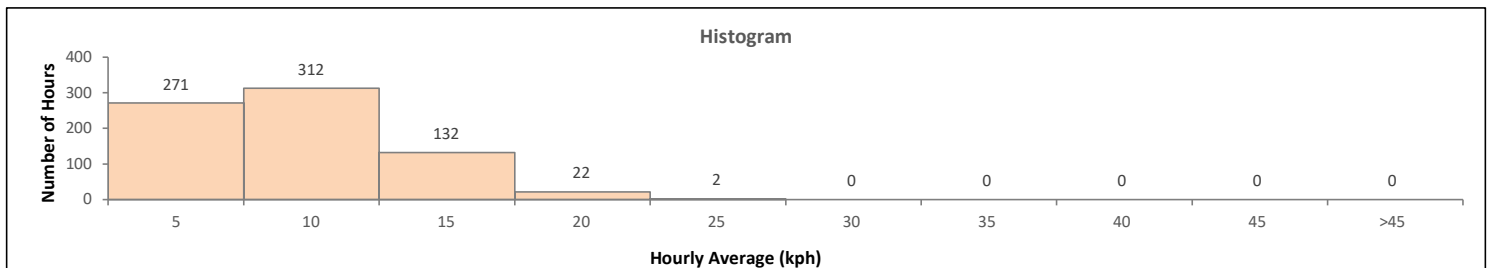
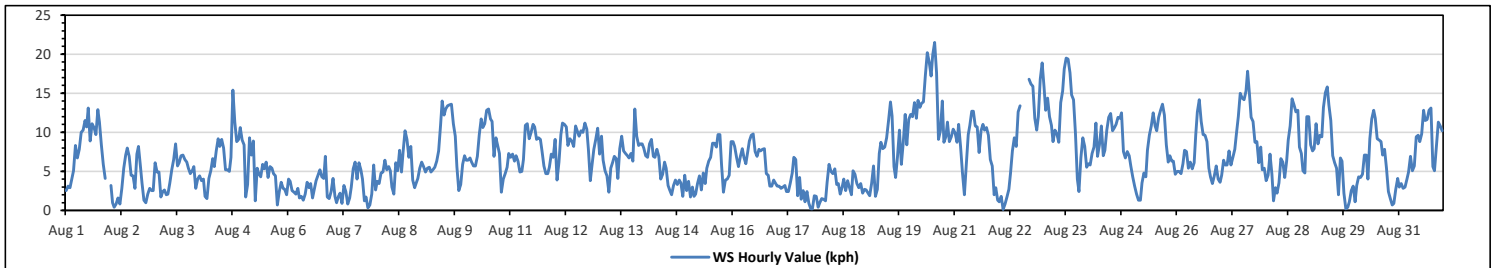
VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	21.5	kph	on Aug 20 at hr 13	Hours in Service:	744
Maximum Daily Value:	13.7	kph	on Aug 20	Hours of Data:	739
Minimum Hourly Value:	0.1	kph	on Aug 22 at hr 2	Hours of Missing Data:	3
Minimum Daily Value:	2.6	kph	on Aug 17	Hours of Calibration:	2
Monthly Average:	1.8	kph		Operational Uptime:	99.6

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 1	2.5	3.1	2.9	4.1	5.1	8.3	6.7	7.8	10.0	10.3	11.5	10.7	13.1	8.9	11.1	10.6	9.7	12.9	11.3	8.4	5.9	4.1	P	P	2.5	13.1	8.1
Aug 2	3.2	1.0	0.4	0.8	1.6	0.8	2.8	5.4	7.1	8.0	6.9	4.5	4.4	2.8	7.2	8.2	5.7	3.5	1.3	1.0	2.1	2.8	2.5	2.5	0.4	8.2	3.6
Aug 3	6.1	4.9	4.9	1.7	2.4	2.6	2.0	2.1	3.5	5.2	6.5	8.5	5.7	6.1	7.0	7.1	6.5	6.2	5.4	4.7	5.1	5.6	2.8	4.0	1.7	8.5	4.9
Aug 4	4.4	3.8	4.0	1.8	1.5	4.1	5.1	6.6	5.6	7.6	9.2	8.2	9.1	8.0	5.2	5.2	5.0	6.8	15.4	11.3	8.8	9.1	10.6	9.0	1.5	15.4	6.9
Aug 5	8.4	1.7	3.3	9.3	7.1	8.9	1.2	5.4	4.7	4.3	5.9	5.3	6.2	4.2	5.6	5.4	4.7	4.4	0.7	2.4	3.6	2.8	2.7	2.0	0.7	9.3	4.6
Aug 6	4.0	3.7	2.5	2.3	2.1	2.8	1.6	1.8	1.3	2.1	3.6	2.9	3.4	1.6	2.6	3.8	4.5	5.2	4.3	4.1	6.9	1.7	1.5	2.4	1.3	6.9	3.0
Aug 7	4.1	1.8	1.0	1.8	2.2	0.9	3.2	2.4	0.8	1.6	3.0	5.3	6.2	4.0	6.1	5.2	4.0	1.2	1.7	0.3	0.7	2.1	5.8	2.6	0.3	6.2	2.8
Aug 8	3.7	3.4	4.8	4.9	6.4	5.2	5.6	5.1	3.0	2.1	6.1	5.1	7.7	4.9	7.5	10.2	9.1	6.8	8.2	3.9	2.9	3.5	4.1	5.4	2.1	10.2	5.4
Aug 9	6.2	5.6	4.9	5.4	5.5	4.9	5.2	5.5	6.3	7.6	10.9	14.0	12.2	13.0	13.4	13.5	13.6	11.1	9.5	5.6	2.5	3.3	5.9	7.0	2.5	14.0	8.0
Aug 10	6.4	6.4	6.7	6.2	5.7	5.7	6.9	9.7	11.7	10.6	11.1	12.8	13.0	11.7	11.4	6.9	9.3	8.4	7.3	2.3	4.0	4.7	5.5	7.3	2.3	13.0	8.0
Aug 11	6.8	7.2	6.3	7.0	6.3	4.9	5.0	6.5	10.9	11.1	9.2	10.0	11.0	10.7	9.1	9.3	9.1	7.6	5.7	4.7	4.7	5.5	7.2	6.8	4.7	11.1	7.6
Aug 12	9.1	3.9	6.2	9.7	11.2	11.0	10.7	8.3	9.2	8.9	8.2	10.8	10.2	9.5	10.2	10.0	11.2	10.4	7.8	3.8	5.7	7.8	9.1	10.5	3.8	11.2	8.9
Aug 13	7.2	9.5	6.4	5.1	4.4	2.3	5.4	6.2	6.9	6.6	4.1	7.9	9.5	7.6	7.3	7.0	6.7	7.3	6.3	13.0	9.5	8.3	8.5	8.5	2.3	13.0	7.1
Aug 14	8.0	7.0	6.8	8.5	9.1	6.9	6.8	7.8	6.9	4.0	4.6	6.2	5.4	3.2	2.6	2.0	3.2	3.9	3.3	3.9	3.5	1.8	4.5	2.5	1.8	9.1	5.1
Aug 15	3.7	1.7	3.0	1.8	2.1	3.4	4.4	2.6	4.8	3.4	5.4	6.3	6.8	8.6	8.6	8.1	9.7	9.7	5.9	2.3	3.9	4.0	4.5	8.8	1.7	9.7	5.1
Aug 16	8.8	8.2	6.8	5.6	6.9	7.9	6.8	6.0	7.5	8.9	9.6	9.8	7.5	6.9	7.8	7.6	7.8	7.9	4.7	4.5	3.1	3.1	3.9	3.5	3.1	9.8	6.7
Aug 17	3.1	3.1	2.8	3.0	3.2	2.4	2.4	3.5	4.8	6.8	6.5	1.9	4.2	1.4	2.5	1.1	2.4	0.9	0.2	0.2	1.9	1.8	0.4	1.0	0.2	6.8	2.6
Aug 18	1.5	1.4	1.2	3.6	5.9	5.0	4.7	5.3	3.3	3.4	2.1	3.0	4.0	2.5	3.8	2.9	2.0	5.1	4.6	3.4	2.9	3.4	2.2	2.7	1.2	5.9	3.3
Aug 19	2.6	2.2	1.9	3.4	5.7	1.8	2.7	7.3	8.7	7.9	8.1	9.3	11.5	13.9	12.1	5.6	4.2	6.9	10.3	5.9	8.7	12.3	8.4	11.6	1.8	13.9	7.2
Aug 20	12.3	12.0	13.8	11.8	14.1	13.2	13.7	13.9	17.3	20.2	19.0	17.2	19.9	21.5	17.6	9.1	10.2	14.0	8.7	9.4	11.3	8.8	9.4	10.4	8.7	21.5	13.7
Aug 21	9.9	8.7	11.0	8.2	4.8	2.0	5.9	9.7	10.9	12.7	12.7	10.8	10.7	7.4	10.2	11.0	10.3	10.6	9.6	6.5	5.7	2.0	2.9	1.3	1.3	12.7	8.1
Aug 22	1.1	1.8	0.1	0.8	1.7	2.7	4.7	7.6	9.3	8.2	12.6	13.4	Y	16.7	C	C	16.8	16.2	15.9	11.8	10.3	12.0	16.8	18.9	0.1	18.9	9.5
Aug 23	15.7	12.8	14.4	12.0	10.9	8.8	10.3	9.8	8.7	13.8	15.3	18.1	19.5	19.4	17.6	14.8	14.2	9.9	4.0	2.4	6.7	9.3	8.2	5.5	2.4	19.5	11.8
Aug 24	6.0	5.8	7.3	8.1	11.2	6.9	8.4	10.8	7.0	7.7	10.3	11.9	12.4	10.2	10.6	11.0	11.9	11.8	12.5	7.5	6.7	7.5	7.0	5.7	5.7	12.5	9.0
Aug 25	4.3	3.1	2.1	1.3	1.3	3.5	4.8	4.3	7.7	9.6	10.8	12.5	10.8	10.2	11.9	12.8	13.6	12.2	8.4	6.2	7.0	6.3	6.3	4.6	1.3	13.6	7.3
Aug 26	5.0	5.0	4.7	6.0	7.7	7.5	5.4	6.2	5.3	6.1	9.7	12.6	14.2	11.4	9.7	9.6	8.8	5.4	4.3	3.4	4.4	5.7	4.0	3.6	3.4	14.2	6.9
Aug 27	4.5	6.4	5.8	5.8	7.6	5.8	6.8	7.8	9.8	12.0	15.0	14.4	14.2	15.3	17.8	14.8	11.9	11.4	8.7	8.8	6.1	8.1	5.2	5.4	4.5	17.8	9.6
Aug 28	3.8	4.5	7.2	4.6	1.2	2.9	2.2	3.5	6.6	6.2	4.2	6.3	9.0	10.8	14.3	13.5	12.6	12.8	8.1	7.3	5.1	4.8	12.0	12.0	1.2	14.3	7.3
Aug 29	8.4	7.6	7.9	11.1	8.5	9.6	9.4	13.2	15.1	15.8	13.5	11.5	7.0	6.1	5.4	2.0	6.7	6.3	2.2	0.2	0.4	1.1	2.5	3.1	0.2	15.8	7.3
Aug 30	1.1	3.2	4.3	4.2	4.6	7.1	7.1	4.0	9.2	11.7	12.8	11.8	9.2	9.0	8.8	7.1	7.8	5.4	2.4	1.5	0.7	0.9	2.7	4.1	0.7	12.8	5.9
Aug 31	3.0	3.4	2.8	3.0	4.0	4.9	6.9	5.1	5.7	9.4	9.6	8.8	9.8	12.8	11.5	11.6	12.8	13.1	5.6	5.1	8.2	11.3	10.8	10.2	2.8	13.1	7.9
Diurnal Maximum	15.7	12.8	14.4	12.0	14.1	13.2	13.7	13.9	17.3	20.2	19.0	18.1	19.9	21.5	17.8	14.8	16.8	16.2	15.9	13.0	11.3	12.3	16.8	18.9			
Diurnal Average	5.6	5.0	5.1	5.3	5.5	5.3	5.6	6.5	7.4	8.2	9.0	9.4	9.6	9.0	9.2	8.2	8.6	8.2	6.6	5.0	5.1	5.3	5.9	6.1			

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

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

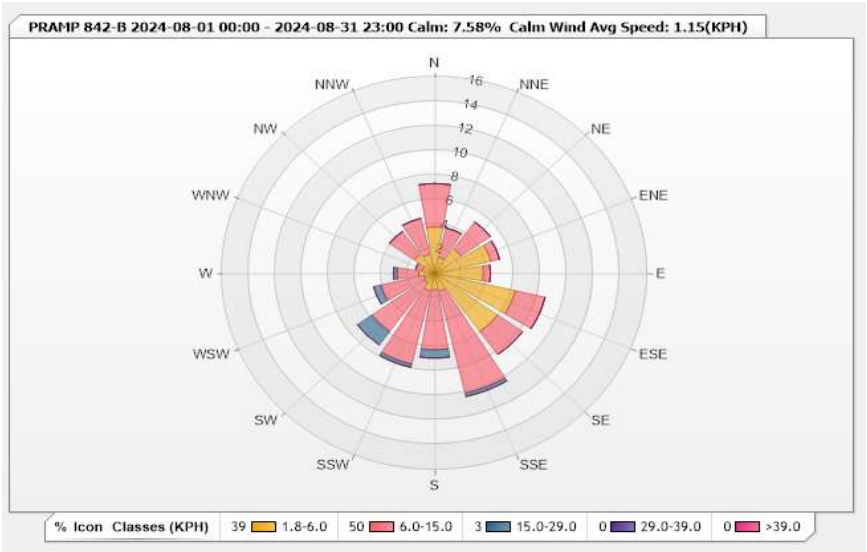


Station: PRAMP 842-B Monitor: WDS [KPH] Monthly: 08-2024

Type: Wind Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm (WS<1.8kph): 7.58% Valid Data: 99.33%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	3.79	3.52	0	0	0	7.31
NNE	1.35	2.44	0	0	0	3.79
NE	2.44	2.71	0	0	0	5.15
ENE	4.33	0.68	0	0	0	5.01
E	3.65	0.54	0	0	0	4.19
ESE	6.22	2.3	0	0	0	8.52
SE	5.82	2.3	0	0	0	8.12
SSE	1.49	8.53	0.27	0	0	10.29
S	1.35	4.87	0.68	0	0	6.9
SSW	1.49	6.09	0.27	0	0	7.85
SW	0.95	4.87	1.35	0	0	7.17
WSW	0.81	3.38	0.54	0	0	4.73
W	1.22	1.62	0.27	0	0	3.11
WNW	0.95	0.54	0	0	0	1.49
NW	1.89	2.3	0	0	0	4.19
NNW	1.62	2.98	0	0	0	4.6
Summary	39.37	49.67	3.38	0	0	92.42



Peace River Area Monitoring Program

842-B Station - August 2024

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

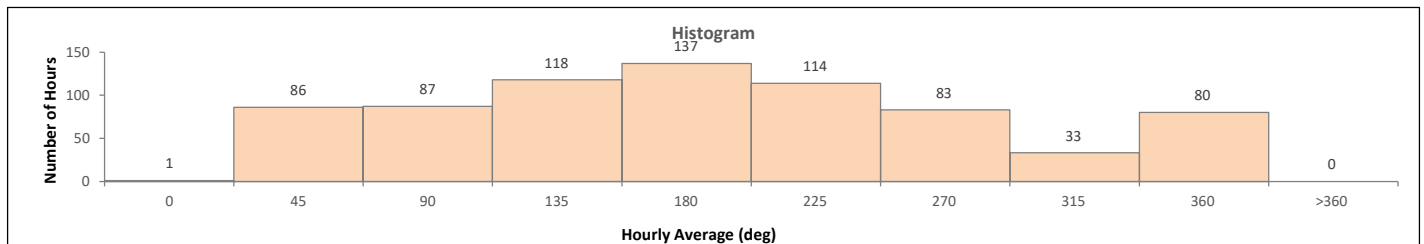
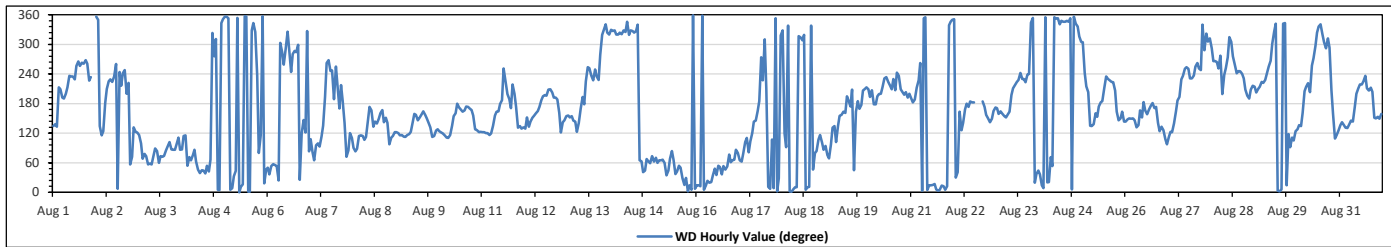
Monthly Average:		186 (S) degree										Hours in Service:		744													
												Hours of Data:		739													
												Hours of Missing Data:		3													
												Hours of Calibration:		2													
												Operational Uptime:		99.6													
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Average		
																									Degree	Quadrant	
Aug 1	SE	SE	SE	SSW	SSW	S	S	SSW	SSW	SW	SW	SW	SW	WSW	W	WSW	W	W	W	W	SW	SW	P	P	235	SW	
Aug 2	N	N	SE	ESE	ESE	S	SSW	SW	SW	SW	SW	WSW	N	WSW	SW	WSW	WSW	SSW	SW	NE	ENE	SE	ESE	ESE	225	SW	
Aug 3	ESE	E	ENE	ENE	ENE	NE	ENE	NE	ENE	E	E	ENE	ENE	ENE	E	E	E	E	E	E	E	E	ESE	E	83	E	
Aug 4	E	ESE	ESE	NE	ENE	ENE	ENE	E	ENE	NE	NE	NE	NE	NE	NE	NE	ENE	NW	W	NW	N	N	NNW	N	25	NNE	
Aug 5	N	N	N	N	N	NNE	NE	N	N	NNE	NNE	N	N	N	N	NNW	NNW	NW	SW	E	ESE	N	NNE	NE	5	N	
Aug 6	NE	NE	NE	ENE	NE	NE	NNE	WNW	WNW	WSW	WNW	NW	WNW	WSW	W	WNW	WNW	WNW	NNE	ESE	SE	ESE	NW	E	350	N	
Aug 7	ESE	E	ENE	E	E	E	ESE	SE	S	W	W	WSW	WSW	S	WSW	SW	SSE	SW	S	SE	ENE	E	ESE	ESE	178	S	
Aug 8	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	SE	S	SSE	SE	SE	SE	SSE	SSE	SSE	SE	SSE	SE	E	ESE	ESE	ESE	133	SE
Aug 9	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	ESE	ESE	SE	SE	141	SE	
Aug 10	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SSE	SSE	S	S	SSE	SSE	SSE	S	SSE	SSE	SSE	SE	SE	ESE	ESE	150	SSE	
Aug 11	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SSE	SSE	SSE	S	S	WSW	SW	SSW	S	S	SW	SSW	S	SE	SE	SE	166	SSE	
Aug 12	SE	SSE	SE	SE	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSE	ESE	SE	SE	SSE	SE	171	S	
Aug 13	SSW	SSE	SSE	SE	SE	ESE	SE	SSE	S	S	SW	WSW	WSW	SW	SW	WSW	SW	SW	W	NW	NNW	NNW	NW	NW	236	SW	
Aug 14	NNW	NW	NNW	NW	NW	NW	NW	NNW	NW	NNW	NW	NNW	NW	NW	NW	NNW	ENE	ENE	NE	NE	ENE	ENE	ENE	ENE	342	NNW	
Aug 15	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	ENE	E	ENE	NE	NE	NE	NE	NNE	NNE	NNE	N	N	N	N	N	39	NE	
Aug 16	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	E	E	36	NE	
Aug 17	ENE	ENE	ENE	E	ESE	E	ESE	ESE	SE	SE	SSE	S	W	SW	NW	SSW	NNE	N	ESE	N	N	N	NNE	NW	113	ESE	
Aug 18	NNW	ESE	E	NNW	N	N	N	N	N	NW	NW	NW	NW	N	N	NNE	NNW	NE	E	E	ESE	ESE	E	E	19	NNE	
Aug 19	E	ENE	ENE	E	SE	SE	E	SE	SSE	SSE	SSE	SSW	S	S	SSW	NE	SSE	S	SSE	S	SSW	SSW	SSW	SSW	172	S	
Aug 20	SSW	S	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	211	SSW	
Aug 21	S	S	S	SSW	SW	W	N	N	N	N	NNE	NNE	NNE	NNE	N	N	N	NNE	NNE	N	NNE	NNW	NNW	N	2	N	
Aug 22	N	NNE	NE	SSE	SE	SE	SSE	S	S	S	S	Y	S	C	C	S	S	SSE	SSE	SE	SSE	SSE	S	169	SSE		
Aug 23	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SSW	SW	SW	SW	WSW	SW	SW	WSW	WSW	NNW	N	NNE	NE	NE	202	SSW		
Aug 24	NE	NNE	N	N	NNE	NNE	ENE	NE	N	N	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	NNW	NW	WNW	358	N		
Aug 25	WNW	WSW	SSW	SSW	SE	SE	SE	SSE	SSE	S	S	S	SSW	SW	SW	SW	SW	SSW	SSE	SE	SSE	SSE	SE	195	SSW		
Aug 26	SE	SE	SSE	SSE	SSE	SE	SE	SE	SE	SSE	SSE	S	SSE	SSE	SSE	S	S	S	SE	ESE	SE	SE	ESE	E	155	SSE	
Aug 27	ESE	ESE	ESE	SE	SSE	S	S	SW	SW	WSW	WSW	WSW	SW	SW	WSW	W	WSW	WSW	NNW	NNW	NW	NW	NW	NW	242	WSW	
Aug 28	NNW	W	W	W	WSW	W	SSW	SW	WSW	W	NW	NNW	W	WSW	WSW	WSW	WSW	SSW	SSW	S	SSW	SSW	SSW	SSW	245	WSW	
Aug 29	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	W	WNW	NW	NNW	N	N	N	NNW	NNW	NNE	ESE	E	ESE	ESE	ESE	263	W	
Aug 30	SE	SE	SE	SSE	SSW	SSW	SW	SSW	WSW	W	WNW	NW	NNW	NNW	NW	WNW	WNW	NW	WNW	SSW	SSE	ESE	ESE	ESE	282	W	
Aug 31	SE	SE	SE	SE	SE	SE	SE	SE	S	S	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSE	SSE	SSE	SSE	SSE	SSE	186	S	
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance						Y	Routine Maintenance					
K	Collection Error						ND	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)																			

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

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

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

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



Peace River Area Monitoring Program

842-B Station - August 2024

Summary of Hourly Averages

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

WIND SPEED																																							
Maximum Hourly Value:		21.5	kph	on Aug 20 at hr 13										Hours in Service:		744																							
Maximum Daily Value:		13.7	kph	on Aug 20										Hours of Data:		739																							
Minimum Hourly Value:		0.1	kph	on Aug 22 at hr 2										Hours of Missing Data:		3																							
Minimum Daily Value:		2.6	kph	on Aug 17										Hours of Calibration:		2																							
Monthly Average:		1.8	kph											Operational Uptime:		99.6																							
WIND DIRECTION																																							
Monthly Average:		186 degree (S)																																					
Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)												10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 1	2.5	3.1	2.9	4.1	5.1	8.3	6.7	7.8	10.0	10.3	11.5	10.7	13.1	8.9	11.1	10.6	9.7	12.9	11.3	8.4	5.9	4.1	P	P									2.5	13.1	8.1				
	SE	SE	SE	SSW	SSW	S	S	SSW	SSW	SW	SW	SW	SW	WSW	W	WSW	W	W	W	W	SW	SW	P	P											235(SW)				
Aug 2	3.2	1.0	0.4	0.8	1.6	0.8	2.8	5.4	7.1	8.0	6.9	4.5	4.4	2.8	7.2	8.2	5.7	3.5	1.3	1.0	2.1	2.8	2.5	2.5									0.4	8.2	3.6				
	N	N	SE	ESE	ESE	S	SSW	SW	SW	SW	WSW	N	WSW	SW	WSW	WSW	SSW	SSW	SW	NE	ENE	SE	ESE	ESE											225(SW)				
Aug 3	6.1	4.9	4.9	1.7	2.4	2.6	2.0	2.1	3.5	5.2	6.5	8.5	5.7	6.1	7.0	7.1	6.5	6.2	5.4	4.7	5.1	5.6	2.8	4.0									1.7	8.5	4.9				
	ESE	E	ENE	ENE	ENE	NE	ENE	NE	ENE	E	E	ENE	ENE	ENE	ENE	E	E	E	E	E	E	ESE	E												83(E)				
Aug 4	4.4	3.8	4.0	1.8	1.5	4.1	5.1	6.6	5.6	7.6	9.2	8.2	9.1	8.0	5.2	5.2	5.0	6.8	15.4	11.3	8.8	9.1	10.6	9.0									1.5	15.4	6.9				
	E	ESE	ESE	NE	ENE	ENE	ENE	E	ENE	NE	NE	NE	NE	NE	NE	NE	ENE	NW	W	NW	N	N	NNW	N											25(NNE)				
Aug 5	8.4	1.7	3.3	9.3	7.1	8.9	1.2	5.4	4.7	4.3	5.9	5.3	6.2	4.2	5.6	5.4	4.7	4.4	0.7	2.4	3.6	2.8	2.7	2.0									0.7	9.3	4.6				
	N	N	N	N	N	NNE	NE	N	N	NNE	NNE	N	N	N	N	NNW	NNW	NNW	NNW	SW	ESE	N	NNE	NE											5(N)				
Aug 6	4.0	3.7	2.5	2.3	2.1	2.8	1.6	1.8	1.3	2.1	3.6	2.9	3.4	1.6	2.6	3.8	4.5	5.2	4.3	4.1	6.9	1.7	1.5	2.4									1.3	6.9	3.0				
	NE	NE	NE	ENE	NE	NNE	WNW	WNW	WSW	WNW	NW	WNW	WSW	W	WNW	WNW	WNW	NNW	NNE	ESE	SE	ESE	NW	E											350(N)				
Aug 7	4.1	1.8	1.0	1.8	2.2	0.9	3.2	2.4	0.8	1.6	3.0	5.3	6.2	4.0	6.1	5.2	4.0	1.2	1.7	0.3	0.7	2.1	5.8	2.6									0.3	6.2	2.8				
	ESE	E	ENE	E	E	ESE	SE	S	W	W	WSW	WSW	S	WSW	SW	SSE	SW	S	SE	ENE	E	ESE	ESE												178(S)				
Aug 8	3.7	3.4	4.8	4.9	6.4	5.2	5.6	5.1	3.0	2.1	6.1	5.1	7.7	4.9	7.5	10.2	9.1	6.8	8.2	3.9	2.9	3.5	4.1	5.4									2.1	10.2	5.4				
	E	E	E	ESE	ESE	ESE	ESE	SE	S	SSE	SE	SE	SE	SSE	SSE	SSE	SE	SSE	SE	E	ESE	ESE	ESE												133(SE)				
Aug 9	6.2	5.6	4.9	5.4	5.5	4.9	5.2	5.5	6.3	7.6	10.9	14.0	12.2	13.0	13.4	13.5	13.6	11.1	9.5	5.6	2.5	3.3	5.9	7.0									2.5	14.0	8.0				
	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SE	SE	ESE	ESE	SE	SE												141(SE)				
Aug 10	6.4	6.4	6.7	6.2	5.7	6.7	6.9	9.7	11.7	10.6	11.1	12.8	13.0	11.7	11.4	6.9	9.3	8.4	7.3	2.3	4.0	4.7	5.5	7.3									2.3	13.0	8.0				
	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SSE	SSE	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	ESE	ESE												150(SSE)				
Aug 11	6.8	7.2	6.3	7.0	6.3	4.9	5.0	6.5	10.9	11.1	9.2	10.0	11.0	10.7	9.1	9.3	9.1	7.6	5.7	4.7	4.7	5.5	7.2	6.8									4.7	11.1	7.6				
	ESE	ESE	ESE	ESE	ESE	ESE	SE	SSE	SSE	SSE	S	S	WSW	SW	SSW	S	S	SW	SSW	S	SE	SE	SE												166(SSE)				
Aug 12	9.1	3.9	6.2	9.7	11.2	11.0	10.7	8.3	9.2	8.9	8.2	10.8	10.2	9.5	10.2	10.0	11.2	10.4	7.8	3.8	5.7	7.8	9.1	10.5									3.8	11.2	8.9				
	SE	SSE	SE	SE	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	SSE	ESE	SE	SE	SSE											171(S)			
Aug 13	7.2	9.5	6.4	5.1	4.4	2.3	5.4	6.2	6.9	6.6	4.1	7.9	9.5	7.6	7.3	7.0	6.7	7.3	6.3	13.0	9.5	8.3	8.5	8.5									2.3	13.0	7.1				
	SSE	SSE	SSE	SE	SE	ESE	SE	SSE	S	S	SW	WSW	WSW	SW	SW	WSW	SW	SW	W	NNW	NNW	NNW	NW	NW											236(SW)				
Aug 14	8.0	7.0	6.8	8.5	9.1	6.9	6.8	7.8	6.9	4.0	4.6	6.2	5.4	3.2	2.6	2.0	3.2	3.9	3.3	3.9	3.5	1.8	4.5	2.5									1.8	9.1	5.1				
	NNW	NW	NNW	NW	NW	NW	NNW	NW	NNW	NW	NNW	NW	NNW	NW	NW	NNW	ENE	ENE	NE	NE	ENE	ENE	ENE	ENE											342(NNW)				
Aug 15	3.7	1.7	3.0	1.8	2.1	3.4	4.4	2.6	4.8	3.4	5.4	6.3	6.8	8.6	8.6	8.1	9.7	9.7	5.9	2.3	3.9	4.0	4.5	8.8									1.7	9.7	5.1				
	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	ENE	E	ENE	NE	NE	NE	NE	NNE	NNE	NNE	N	NNE	N	N	N											39(NE)				
Aug 16	8.8	8.2	6.8	5.6	6.9	7.9	6.8	6.0	7.5	8.9	9.6	9.8	7.5	6.9	7.8	7.6	7.8	7.9	4.7	4.5	3.1	3.1	3.9	3.5									3.1	9.8	6.7				
	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	E	E												36(NE)				
Aug 17	3.1	3.1	2.8	3.0	3.2	2.4	2.4	3.5	4.8	6.8	6.5	1.9	4.2	1.4	2.5	1.1	2.4	0.9	0.2	0.2	1.9	1.8	0.4	1.0									0.2	6.8	2.6				
	ENE	ENE	ENE	E	ESE	E	ESE	ESE	SE	SSE	S	W	SW	NW	SSW	NNE	N	ESE	N	N	N	NNE	NW												113(ESE)				
Aug 18	1.5	1.4	1.2	3.6	5.9	5.0	4.7	5.3	3.3	3.4	2.1	3.0	4.0	2.5	3.8	2.9	2.0	5.1	4.6	3.4	2.9	3.4	2.2	2.7									1.2	5.9	3.3				
	NNW	ESE	E	NNW	N	N	N	N	N	NW	NW	NW	NW	N	N	NNE	NNW	NE	E	E	ESE	ESE	E	E											19(NNE)				
Aug 19	2.6	2.2	1.9	3.4	5.7	1.8	2.7	7.3	8.7	7.9	8.1	9.3	11.5	13.9	12.1	5.6	4.2	6.9	10.3	5.9	8.7	12.3	8.4	11.6									1.8	13.9	7.2				
	E	ENE	ENE	E	SE	SE	E	SE	SSE	SSE	SSE	SSW	S	S	SSW	NE	SSE	S	SSE	S	SSE	SSW	SSW	SSW											172(S)				
Aug 20	12.3	12.0	13.8	11.8	14.1	13.2	13.7	13.9	17.3	20.2	19.0	17.2	19.9	21.5	17.6	9.1	10.2	14.0	8.7	9.4	11.3	8.8	9.4	10.4									8.7	21.5	13.7				
	SSW	S	SSW	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SSW	SSW	SSW	WSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW											211(SSW)			
Aug 21	9.9	8.7	11.0	8.2	4.8	2.0	5.9	9.7	10.9	12.7	12.7	10.8	10.7	7.4	10.2	11.0	10.3	10.6	9.6	6.5	5.7	2.0	2.9	1.3									1.3	12.7	8.1				
	S	S	S	SSW	SW	W	N	N	N	N	NNE	NNE	NNE	NNE	N	N	N	NNE	NNE	N	NNE	NNW	NNW	N												2(N)			
Aug 22	1.1	1.8	0.1	0.8	1.7	2.7	4.7	7.6	9.3	8.2	12.6	13.4	Y	16.7	C	C	C	16.8	16.2	15.9	11.8	10.3	12.0	16.8									0.1	18.9	9.5				
	N	NNE	NE	SSE	SE	SE	SSE	S	S	S	S	Y	S	Y	S	C	C	C	S	S	SSE	SSE	SE	SSE	S											169(SSE)			
Aug 23	15.7	12.8	14.4	12.0	10.9	8.8	10.3	9.8	8.7	13.8	15.3	18.1	19.5	19.4	17.6	14.8	14.2	9.9	4.0	2.4	6.7	9.3	8.2	5.5									2.4	19.5	11.8				
	S	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	SW	SW	WSW	WSW	NNW	N	NNE	NE	NE												202(SSW)			
Aug 24	6.0	5.8	7.3	8.1	11.2	6.9	8.4	10.8	7.0	7.7	10.3	11.9	12.4	10.2	10.6	11.0	11.9	11.8	12.5	7.5	6.7	7.5	7.0	5.7									5.7	12.5	9.0				
	NE	NNE	N	N	NNE	ENE	NE	N	N	N	NNW	NNW	NNW	NNW	NNW																								

RENO -B STATION

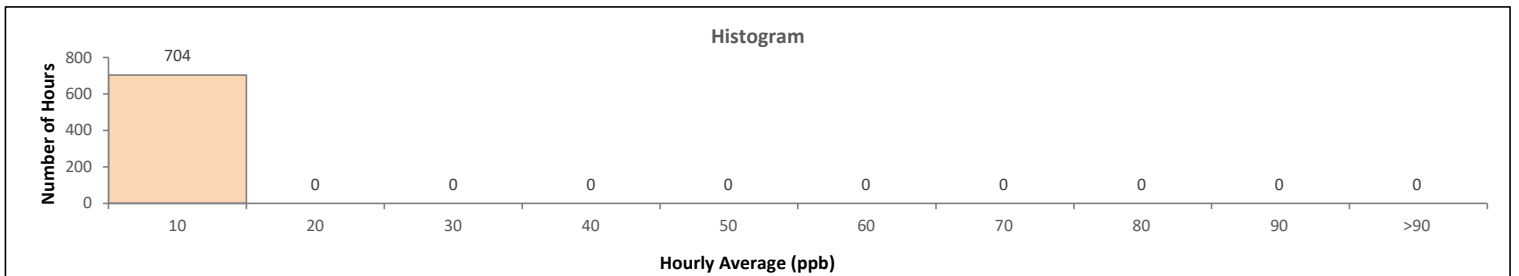
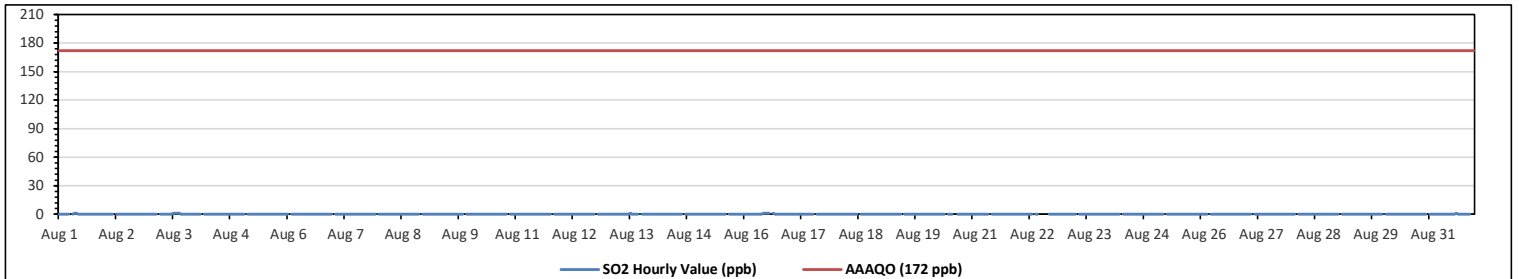
Peace River Area Monitoring Program

Reno-B Station - August 2024

Summary of Hourly Averages

SULPHUR DIOXIDE (SO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb																												
Number of 1-Hour Exceedances:					0					Number of 24-Hour Exceedances:					0					30-Day Exceedence:					0			
Maximum Hourly Value:					1 ppb on Aug 1 at hr 8					Hours in Service:					744													
Maximum Daily Value:					0.2 ppb on Aug 16					Hours of Data:					704													
Minimum Hourly Value:					0 ppb on Aug 1 at hr 0					Hours of Missing Data:					2													
Minimum Daily Value:					0.0 ppb on Aug 2					Hours of Calibration:					38													
Monthly Average:					0.0 ppb					Operational Uptime:					99.7													
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Aug 1	0	0	0	0	0	0	S	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	
Aug 2	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Aug 3	0	0	0	0	S	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0.2	
Aug 4	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	
Aug 5	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Aug 6	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	
Aug 7	S	0	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	
Aug 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0	
Aug 9	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	
Aug 10	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	
Aug 11	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	
Aug 12	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	
Aug 13	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	0	0	0	0	0	0	0	1	0.0	
Aug 14	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	
Aug 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0.0	
Aug 16	0	0	0	0	0	0	0	0	0	0	1	1	1	1	S	1	0	0	0	0	0	0	0	0	0	1	0.2	
Aug 17	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	
Aug 18	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	
Aug 19	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	
Aug 20	0	0	0	0	0	0	0	0	0	S	0	0	0	0	P	P	0	0	0	0	0	0	0	0	0	0	0.0	
Aug 21	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Aug 22	0	0	0	0	0	0	0	0	S	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0.0	
Aug 23	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	
Aug 24	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	
Aug 25	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	
Aug 26	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	
Aug 27	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Aug 28	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Aug 29	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Aug 30	S	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	
Aug 31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	S	0	0	1	0.0		
Diurnal Maximum	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	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	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance													
K	Collection Error						ND	No Data (Machine Not in Service)						Y	Routine Maintenance													
X	Invalid Data (Equipment Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																				
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

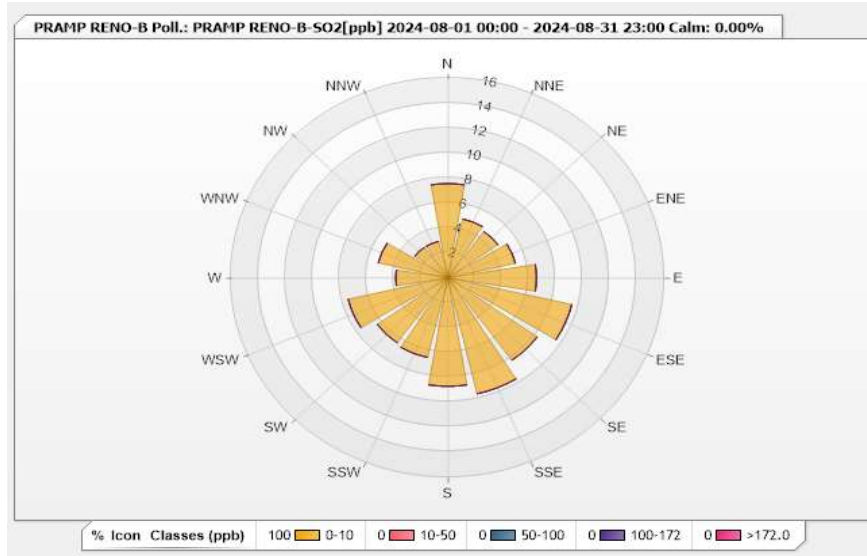


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-SO2[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.35% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	7.55	0	0	0	0	7.55
NNE	4.84	0	0	0	0	4.84
NE	4.56	0	0	0	0	4.56
ENE	5.13	0	0	0	0	5.13
E	6.55	0	0	0	0	6.55
ESE	9.4	0	0	0	0	9.4
SE	8.12	0	0	0	0	8.12
SSE	9.54	0	0	0	0	9.54
S	8.69	0	0	0	0	8.69
SSW	6.55	0	0	0	0	6.55
SW	6.41	0	0	0	0	6.41
WSW	7.55	0	0	0	0	7.55
W	3.85	0	0	0	0	3.85
WNW	5.27	0	0	0	0	5.27
NW	2.99	0	0	0	0	2.99
NNW	2.99	0	0	0	0	2.99
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - August 2024

Summary of Hourly Averages

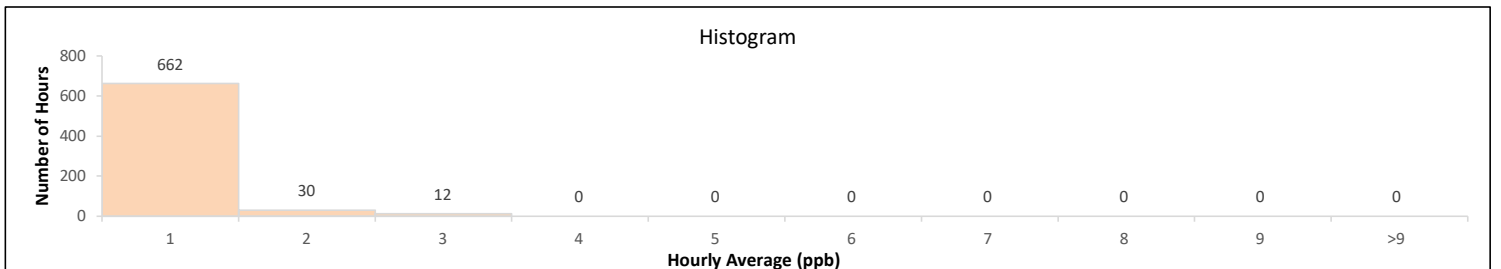
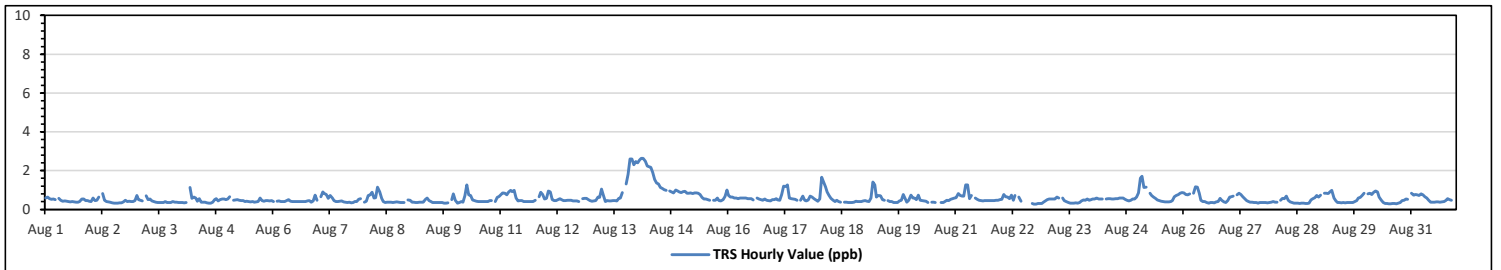
TOTAL REDUCED SULPHUR (TRS) in ppb

Maximum Hourly Value:	2.63	ppb	on Aug 14 at hr 2	Hours in Service:	744
Maximum Daily Value:	1.57	ppb	on Aug 14	Hours of Data:	704
Minimum Hourly Value:	0.28	ppb	on Aug 22 at hr 17	Hours of Missing Data:	2
Minimum Daily Value:	0.41	ppb	on Aug 9	Hours of Calibration:	38
Monthly Average:	0.58	ppb		Operational Uptime:	99.7

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 1	0.59	0.63	0.55	0.52	0.53	0.51	S	0.57	0.47	0.43	0.44	0.43	0.42	0.39	0.4	0.39	0.38	0.38	0.42	0.53	0.54	0.45	0.45	0.43	0.38	0.63	0.47
Aug 2	0.42	0.59	0.48	0.47	0.64	S	0.81	0.47	0.4	0.39	0.37	0.34	0.33	0.32	0.33	0.34	0.34	0.39	0.47	0.41	0.43	0.42	0.42	0.45	0.32	0.81	0.43
Aug 3	0.71	0.5	0.48	0.44	S	0.7	0.51	0.53	0.44	0.41	0.38	0.36	0.35	0.35	0.35	0.4	0.36	0.36	0.35	0.4	0.38	0.37	0.35	0.35	0.35	0.71	0.43
Aug 4	0.36	0.34	0.35	S	1.14	0.57	0.63	0.6	0.43	0.55	0.37	0.37	0.37	0.34	0.33	0.33	0.38	0.5	0.56	0.44	0.5	0.54	0.53	0.51	0.33	1.14	0.48
Aug 5	0.53	0.65	S	0.47	0.49	0.5	0.48	0.46	0.45	0.41	0.43	0.4	0.39	0.4	0.37	0.39	0.41	0.58	0.46	0.43	0.45	0.46	0.44	0.45	0.37	0.65	0.46
Aug 6	0.41	S	0.43	0.44	0.42	0.4	0.41	0.46	0.5	0.43	0.41	0.4	0.41	0.41	0.4	0.42	0.41	0.4	0.44	0.45	0.38	0.44	0.74	0.48	0.38	0.74	0.44
Aug 7	S	0.65	0.9	0.82	0.78	0.57	0.72	0.58	0.45	0.42	0.41	0.43	0.44	0.39	0.37	0.36	0.38	0.34	0.35	0.42	0.42	0.52	0.56	S	0.34	0.90	0.51
Aug 8	0.38	0.43	0.72	0.75	0.88	0.6	0.61	1.15	0.91	0.57	0.42	0.36	0.37	0.37	0.38	0.36	0.37	0.39	0.38	0.35	0.36	S	0.51	0.8	0.35	1.15	0.52
Aug 9	0.47	0.37	0.37	0.36	0.36	0.38	0.37	0.38	0.51	0.58	0.45	0.4	0.36	0.36	0.36	0.35	0.35	0.35	0.33	0.33	0.34	S	0.51	0.8	0.33	0.80	0.41
Aug 10	0.48	0.33	0.35	0.42	0.37	0.7	1.27	0.75	0.71	0.49	0.45	0.43	0.41	0.41	0.4	0.41	0.42	0.42	0.46	0.46	S	0.41	0.62	0.67	0.33	1.27	0.51
Aug 11	0.77	0.86	0.84	0.75	0.91	0.98	0.92	0.98	0.6	0.44	0.45	0.45	0.42	0.42	0.41	0.42	0.41	0.42	0.47	S	0.66	0.88	0.77	0.53	0.41	0.98	0.64
Aug 12	0.57	0.96	0.91	0.51	0.46	0.45	0.51	0.55	0.51	0.46	0.45	0.47	0.47	0.48	0.44	0.44	0.44	0.42	S	0.56	0.57	0.57	0.5	0.46	0.42	0.96	0.53
Aug 13	0.43	0.44	0.46	0.64	0.62	1.05	0.71	0.42	0.45	0.44	0.44	0.45	0.45	0.44	0.57	0.58	0.87	S	1.3	1.81	2.6	2.61	2.3	2.46	0.42	2.61	0.98
Aug 14	2.4	2.55	2.63	2.63	2.48	2.23	2.2	2.17	1.91	1.54	1.37	1.32	1.14	1.09	1.02	0.98	S	0.94	0.89	0.86	1.01	0.95	0.9	0.87	0.86	2.63	1.57
Aug 15	0.92	0.93	0.83	0.83	0.85	0.82	0.85	0.86	0.84	0.77	0.62	0.54	0.53	0.5	0.47	S	0.48	0.47	0.6	0.46	0.44	0.51	0.67	1	0.44	1.00	0.69
Aug 16	0.72	0.63	0.63	0.59	0.58	0.55	0.58	0.6	0.6	0.6	0.55	0.55	0.55	0.49	S	0.59	0.53	0.5	0.48	0.53	0.48	0.45	0.44	0.5	0.44	0.72	0.55
Aug 17	0.5	0.55	0.49	0.48	0.76	1.2	1.18	1.26	0.58	0.56	0.53	0.52	0.47	S	0.47	0.69	0.47	0.44	0.49	0.68	0.63	0.56	0.49	0.43	0.43	1.26	0.63
Aug 18	0.54	1.65	1.41	1.16	0.9	0.73	0.57	0.47	0.42	0.48	0.41	0.38	S	0.38	0.37	0.36	0.36	0.35	0.38	0.43	0.42	0.4	0.4	0.44	0.35	1.65	0.58
Aug 19	0.45	0.43	0.42	0.58	1.41	1.27	0.64	0.73	0.7	0.5	0.47	S	0.45	0.41	0.41	0.36	0.36	0.36	0.44	0.47	0.76	0.55	0.38	0.48	0.36	1.41	0.57
Aug 20	0.74	0.59	0.6	0.5	0.74	0.48	0.45	0.44	0.43	0.35	S	0.37	0.37	0.36	P	P	0.36	0.35	0.4	0.48	0.46	0.52	0.56	0.58	0.35	0.74	0.48
Aug 21	0.61	0.81	0.72	0.69	0.69	1.27	1.27	0.56	0.71	S	0.6	0.52	0.48	0.45	0.44	0.46	0.45	0.45	0.46	0.46	0.46	0.47	0.47	0.5	0.44	1.27	0.61
Aug 22	0.52	0.76	0.65	0.64	0.55	0.74	0.48	0.72	S	0.63	0.43	C	C	C	C	C	0.31	0.28	0.28	0.3	0.31	0.31	0.37	0.44	0.28	0.76	0.48
Aug 23	0.51	0.53	0.53	0.53	0.54	0.63	0.59	S	0.59	0.46	0.4	0.35	0.33	0.33	0.33	0.34	0.33	0.35	0.44	0.49	0.48	0.54	0.48	0.5	0.33	0.63	0.46
Aug 24	0.53	0.54	0.59	0.54	0.54	0.53	S	0.54	0.56	0.56	0.53	0.53	0.55	0.56	0.58	0.59	0.59	0.52	0.47	0.44	0.48	0.53	0.54	0.63	0.44	0.63	0.54
Aug 25	0.85	1.62	1.71	1.12	1.15	S	0.83	0.71	0.63	0.57	0.49	0.45	0.43	0.42	0.39	0.39	0.39	0.4	0.45	0.65	0.71	0.77	0.84	0.87	0.39	1.71	0.73
Aug 26	0.85	0.78	0.75	0.8	S	0.83	1.16	1.15	0.84	0.47	0.42	0.4	0.35	0.33	0.35	0.36	0.34	0.39	0.41	0.57	0.47	0.39	0.36	0.45	0.33	1.16	0.57
Aug 27	0.63	0.66	0.69	S	0.75	0.84	0.78	0.66	0.55	0.45	0.4	0.38	0.38	0.36	0.35	0.33	0.35	0.35	0.36	0.35	0.34	0.35	0.37	0.4	0.33	0.84	0.48
Aug 28	0.37	0.38	S	0.47	0.57	0.55	0.69	0.48	0.39	0.36	0.32	0.33	0.32	0.31	0.33	0.33	0.31	0.31	0.33	0.49	0.56	0.61	0.71	0.64	0.31	0.71	0.44
Aug 29	0.74	S	0.83	0.83	0.82	0.9	0.98	0.59	0.44	0.36	0.35	0.34	0.35	0.34	0.35	0.36	0.36	0.36	0.42	0.46	0.59	0.62	0.73	0.83	0.34	0.98	0.56
Aug 30	S	0.8	0.83	0.78	0.88	0.94	0.89	0.64	0.48	0.35	0.31	0.3	0.29	0.29	0.3	0.3	0.29	0.32	0.36	0.46	0.48	0.54	0.52	S	0.29	0.94	0.52
Aug 31	0.84	0.74	0.78	0.75	0.73	0.8	0.75	0.65	0.6	0.47	0.38	0.37	0.38	0.39	0.39	0.38	0.39	0.4	0.45	0.56	0.5	0.47	S	0.68	0.37	0.84	0.56
Diurnal Maximum	2.40	2.55	2.63	2.63	2.48	2.23	2.20	2.17	1.91	1.54	1.37	1.32	1.14	1.09	1.02	0.98	0.87	0.94	1.30	1.81	2.60	2.61	2.30	2.46			
Diurnal Average	0.65	0.75	0.76	0.71	0.78	0.78	0.79	0.70	0.60	0.52	0.47	0.45	0.43	0.42	0.42	0.43	0.41	0.42	0.47	0.52	0.57	0.59	0.60	0.63			

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

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

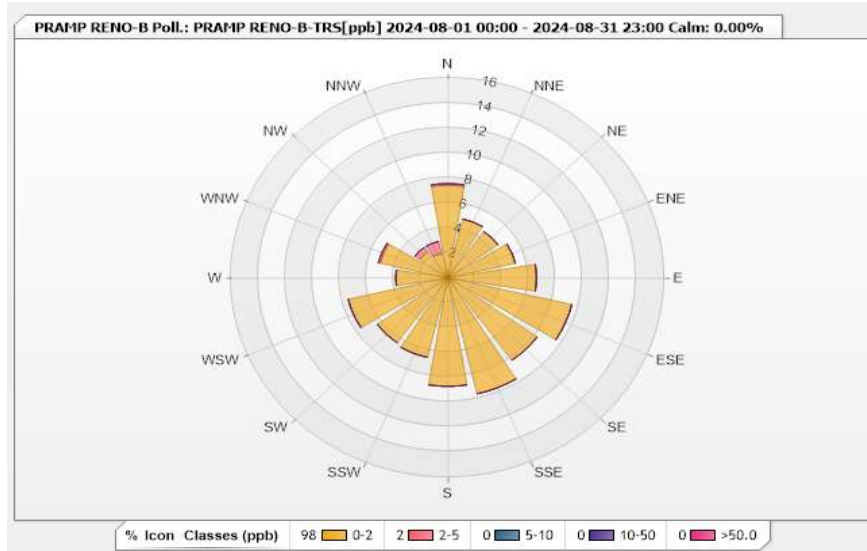


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-TRS[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.35% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	7.41	0.14	0	0	0	7.55
NNE	4.84	0	0	0	0	4.84
NE	4.56	0	0	0	0	4.56
ENE	5.13	0	0	0	0	5.13
E	6.55	0	0	0	0	6.55
ESE	9.4	0	0	0	0	9.4
SE	8.12	0	0	0	0	8.12
SSE	9.54	0	0	0	0	9.54
S	8.69	0	0	0	0	8.69
SSW	6.55	0	0	0	0	6.55
SW	6.41	0	0	0	0	6.41
WSW	7.55	0	0	0	0	7.55
W	3.85	0	0	0	0	3.85
WNW	5.13	0.14	0	0	0	5.27
NW	2.56	0.43	0	0	0	2.99
NNW	1.99	1	0	0	0	2.99
Summary	98.28	1.71	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - August 2024

Summary of Hourly Averages

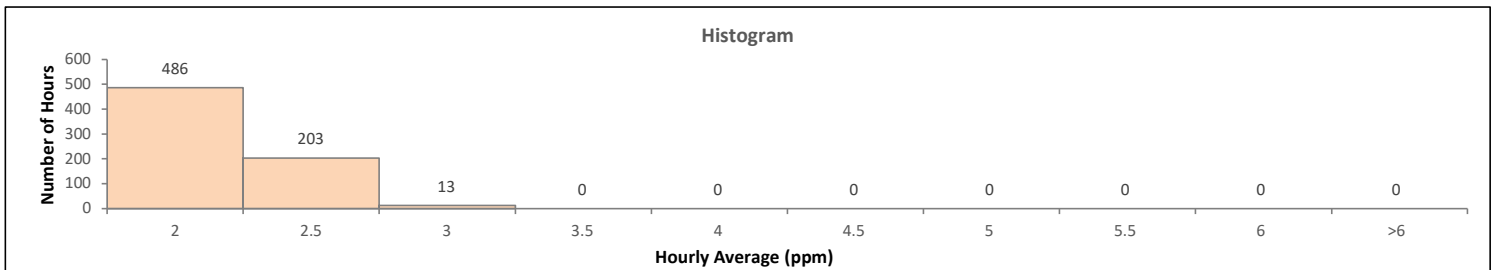
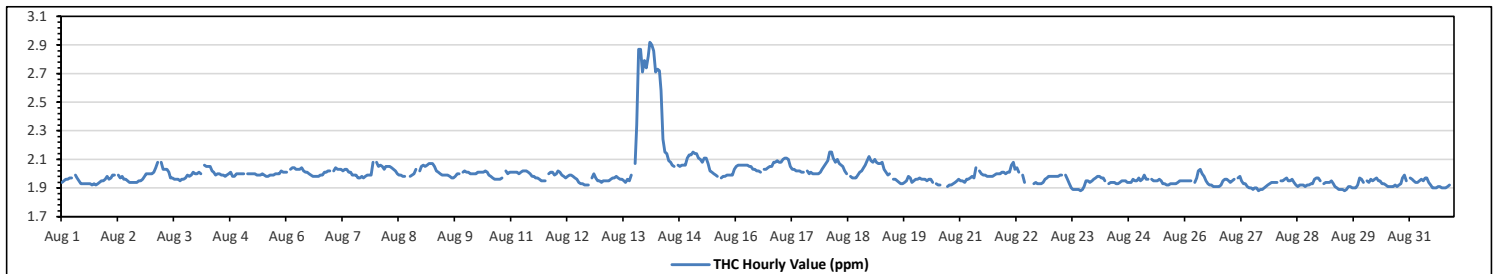
TOTAL HYDROCARBONS (THC) in ppm

Maximum Hourly Value:	2.92	ppm	on Aug 14 at hr 2	Hours in Service:	744
Maximum Daily Value:	2.36	ppm	on Aug 14	Hours of Data:	702
Minimum Hourly Value:	1.88	ppm	on Aug 23 at hr 16	Hours of Missing Data:	5
Minimum Daily Value:	1.92	ppm	on Aug 29	Hours of Calibration:	37
Monthly Average:	2.00	ppm		Operational Uptime:	99.3

Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)														10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 1	1.94	1.95	1.96	1.96	1.97	1.97	S	1.99	1.97	1.95	1.93	1.93	1.93	1.93	1.93	1.93	1.92	1.93	1.92	1.93	1.94	1.95	1.95	1.96	1.92	1.99	1.95														
Aug 2	1.98	1.96	1.97	1.99	1.99	S	1.99	1.97	1.98	1.96	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.96	1.98	2.00	2.00	2.00	1.94	2.00	1.97														
Aug 3	2.00	2.01	2.04	2.08	S	2.08	2.03	2.03	2.03	2.01	1.97	1.97	1.96	1.96	1.96	1.95	1.96	1.96	1.97	1.99	1.98	1.99	2.01	2.00	1.95	2.08	2.00														
Aug 4	2.00	2.01	2.00	S	2.06	2.05	2.05	2.05	2.02	2.01	1.99	2.00	2.00	1.99	1.99	1.98	1.99	2.00	2.01	1.98	1.98	2.00	2.00	2.00	1.98	2.06	2.01														
Aug 5	2.00	2.00	S	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99	2.00	1.99	1.98	1.98	1.99	1.99	1.99	2.00	2.00	2.00	2.00	2.02	2.01	2.01	1.98	2.02	2.00													
Aug 6	2.01	S	2.03	2.04	2.04	2.03	2.03	2.03	2.04	2.02	2.01	2.01	2.00	1.99	1.98	1.98	1.98	1.98	1.99	1.99	2.00	2.01	2.01	2.02	2.02	1.98	2.04	2.01													
Aug 7	S	2.02	2.04	2.03	2.03	2.03	2.02	2.03	2.03	2.01	2.01	1.99	1.99	1.99	1.97	1.97	1.98	1.97	1.98	1.99	1.99	1.99	2.08	S	1.97	2.08	2.01														
Aug 8	2.08	2.05	2.06	2.05	2.03	2.05	2.05	2.05	2.04	2.03	2.02	2.00	1.99	1.99	1.98	1.98	NRM	NRM	1.98	1.99	2.00	2.03	S	2.02	1.98	2.08	2.02														
Aug 9	2.05	2.06	2.05	2.06	2.07	2.07	2.07	2.05	2.02	2.01	2.00	1.99	1.99	1.99	1.99	1.98	1.97	1.97	1.98	2.00	2.00	S	2.01	2.02	1.97	2.07	2.02														
Aug 10	2.01	2.01	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.02	2.01	1.99	1.98	1.97	1.96	1.96	1.96	1.96	1.97	S	2.02	2.00	2.01	1.96	2.02	1.99														
Aug 11	2.01	2.01	2.01	2.01	2.00	2.01	2.02	2.02	2.02	2.01	2.00	1.98	1.98	1.97	1.97	1.96	1.95	1.95	1.95	S	2.00	2.01	2.01	1.99	1.95	2.02	1.99														
Aug 12	2.00	2.02	2.01	1.99	1.98	1.97	1.98	1.99	1.99	1.98	1.97	1.96	1.94	1.93	1.93	1.92	1.92	1.92	S	1.97	2.00	1.97	1.95	1.95	1.92	2.02	1.97														
Aug 13	1.94	1.95	1.95	1.95	1.95	1.96	1.97	1.97	1.98	1.97	1.96	1.96	1.95	1.94	1.96	1.95	1.99	S	2.07	2.34	2.87	2.87	2.71	2.79	1.94	2.87	2.13														
Aug 14	2.74	2.82	2.92	2.90	2.86	2.71	2.73	2.72	2.58	2.24	2.15	2.14	2.09	2.08	2.06	2.05	S	2.06	2.05	2.06	2.06	2.06	2.11	2.13	2.05	2.92	2.36														
Aug 15	2.13	2.15	2.14	2.14	2.11	2.10	2.08	2.11	2.11	2.07	2.02	2.01	2.00	1.99	1.98	S	1.97	1.98	1.98	1.99	1.99	1.99	1.99	2.03	1.97	2.15	2.05														
Aug 16	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.05	2.05	2.03	2.03	2.02	2.02	2.01	S	2.03	2.03	2.04	2.05	2.05	2.08	2.08	2.09	2.08	2.01	2.09	2.05														
Aug 17	2.08	2.10	2.11	2.11	2.10	2.05	2.03	2.03	2.02	2.02	2.02	2.01	2.01	S	2.02	2.00	2.01	2.00	2.00	2.00	2.00	2.01	2.03	2.05	2.00	2.11	2.04														
Aug 18	2.07	2.09	2.15	2.15	2.11	2.08	2.10	2.07	2.06	2.05	2.02	2.00	S	1.98	1.97	1.97	1.97	1.99	2.01	2.02	2.04	2.06	2.09	2.12	1.97	2.15	2.05														
Aug 19	2.09	2.08	2.10	2.08	2.07	2.07	2.08	2.03	2.01	1.99	2.00	S	1.96	1.96	1.95	1.94	1.93	1.93	1.94	1.95	1.98	1.97	1.94	1.95	1.93	2.10	2.00														
Aug 20	1.96	1.96	1.97	1.96	1.96	1.96	1.95	1.96	1.96	1.94	S	1.93	1.92	1.92	P	P	X	1.91	1.92	1.92	1.93	1.94	1.95	1.96	1.91	1.97	1.94														
Aug 21	1.95	1.95	1.94	1.96	1.96	1.96	1.97	1.98	1.97	2.04	S	2.02	2.00	1.99	1.99	1.98	1.98	1.98	1.99	2.00	2.00	2.00	2.01	2.01	1.94	2.04	1.98														
Aug 22	2.00	2.01	2.01	2.06	2.08	2.03	2.04	2.01	S	1.99	1.94	C	C	C	C	1.93	1.94	1.93	1.93	1.93	1.94	1.96	1.97	1.98	1.93	2.08	1.98														
Aug 23	1.98	1.98	1.98	1.98	1.98	1.99	1.99	S	1.99	1.96	1.93	1.90	1.89	1.89	1.89	1.89	1.88	1.89	1.91	1.95	1.95	1.94	1.95	1.96	1.88	1.99	1.94														
Aug 24	1.97	1.98	1.98	1.97	1.97	1.95	S	1.93	1.94	1.94	1.94	1.93	1.93	1.93	1.94	1.95	1.95	1.95	1.94	1.94	1.96	1.95	1.95	1.97	1.93	1.98	1.95														
Aug 25	1.95	1.96	1.99	1.96	1.96	S	1.96	1.95	1.95	1.95	1.96	1.95	1.93	1.93	1.92	1.92	1.93	1.93	1.93	1.94	1.95	1.95	1.95	1.95	1.92	1.99	1.95														
Aug 26	1.95	1.95	1.95	1.95	S	1.94	1.97	2.02	2.03	2.00	1.98	1.95	1.93	1.92	1.92	1.91	1.91	1.91	1.91	1.92	1.95	1.96	1.96	1.95	1.91	2.03	1.95														
Aug 27	1.94	1.95	1.96	S	1.97	1.98	1.95	1.93	1.93	1.91	1.90	1.90	1.89	1.90	1.90	1.88	1.89	1.89	1.90	1.91	1.92	1.93	1.94	1.94	1.88	1.98	1.92														
Aug 28	1.94	1.94	S	1.95	1.95	1.96	1.97	1.95	1.95	1.96	1.94	1.92	1.91	1.92	1.92	1.92	1.91	1.92	1.92	1.93	1.93	1.96	1.97	1.97	1.91	1.97	1.94														
Aug 29	1.95	S	1.93	1.94	1.94	1.94	1.95	1.93	1.91	1.90	1.89	1.89	1.89	1.88	1.89	1.92	1.91	1.91	1.90	1.90	1.92	1.97	1.96	1.94	1.88	1.97	1.92														
Aug 30	S	1.95	1.94	1.96	1.95	1.96	1.97	1.95	1.95	1.93	1.93	1.92	1.91	1.91	1.91	1.91	1.92	1.91	1.92	1.93	1.97	1.99	1.95	S	1.91	1.99	1.94														
Aug 31	1.97	1.96	1.95	1.94	1.94	1.95	1.96	1.95	1.97	1.97	1.94	1.92	1.90	1.90	1.90	1.91	1.91	1.90	1.90	1.90	1.91	1.92	S	1.93	1.90	1.97	1.93														
Diurnal Maximum	2.74	2.82	2.92	2.90	2.86	2.71	2.73	2.72	2.58	2.24	2.15	2.14	2.09	2.08	2.06	2.05	2.03	2.06	2.07	2.34	2.87	2.87	2.71	2.79																	
Diurnal Average	2.03	2.03	2.04	2.04	2.04	2.03	2.03	2.03	2.02	1.99	1.98	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.96	1.98	2.01	2.02	2.02	2.02																	

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

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

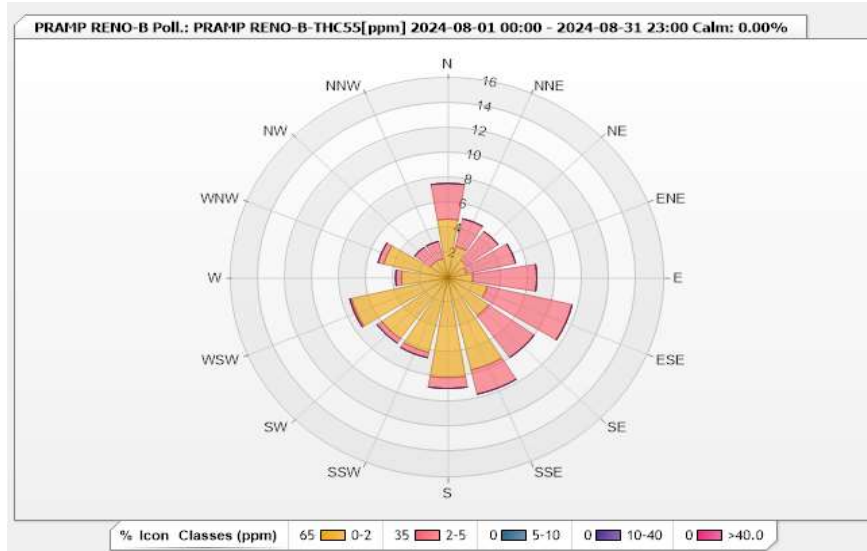


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-THC55[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.09% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	4.71	2.86	0	0	0	7.57
NNE	2.57	2.29	0	0	0	4.86
NE	1.71	2.86	0	0	0	4.57
ENE	1.43	3.71	0	0	0	5.14
E	1.86	4.71	0	0	0	6.57
ESE	3	6.43	0	0	0	9.43
SE	3.71	4.14	0	0	0	7.85
SSE	7.57	2	0	0	0	9.57
S	8	0.86	0	0	0	8.86
SSW	6.14	0.43	0	0	0	6.57
SW	6	0.43	0	0	0	6.43
WSW	7.29	0.14	0	0	0	7.43
W	3.43	0.43	0	0	0	3.86
WNW	4.86	0.43	0	0	0	5.29
NW	1.57	1.43	0	0	0	3
NNW	1.57	1.43	0	0	0	3
Summary	65.42	34.58	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - August 2024

Summary of Hourly Averages

METHANE (CH4) in ppm

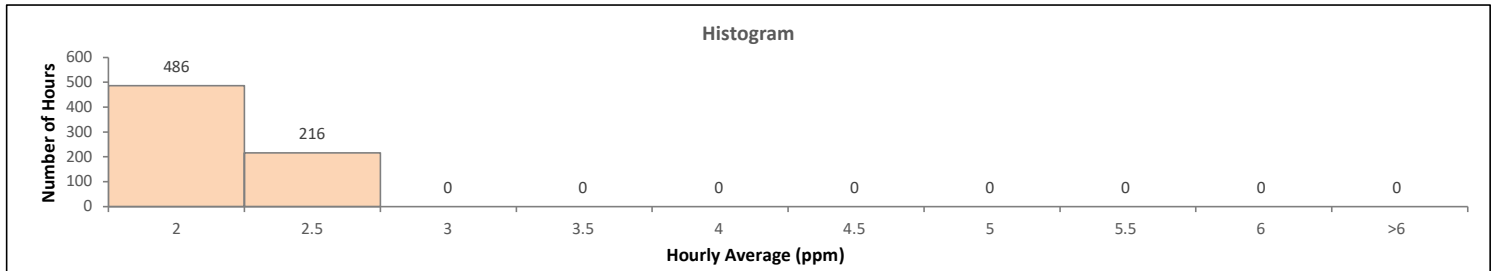
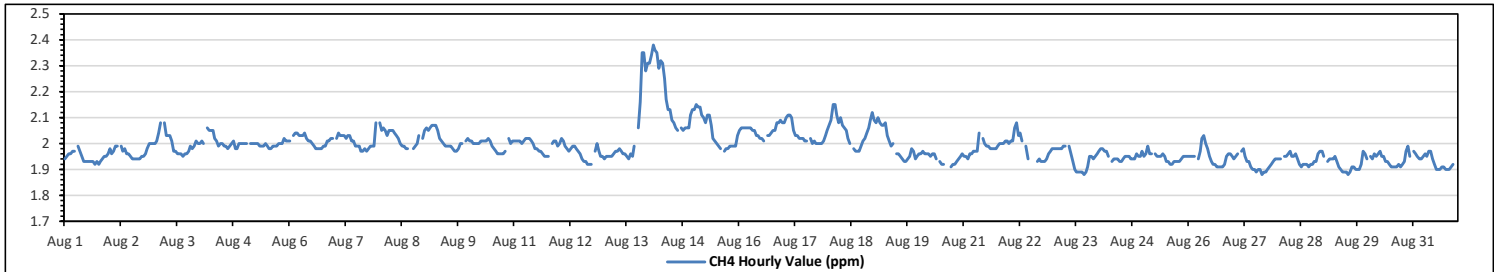
Maximum Hourly Value:	2.38	ppm	on Aug 14 at hr 2	Hours in Service:	744
Maximum Daily Value:	2.18	ppm	on Aug 14	Hours of Data:	702
Minimum Hourly Value:	1.88	ppm	on Aug 23 at hr 16	Hours of Missing Data:	5
Minimum Daily Value:	1.92	ppm	on Aug 29	Hours of Calibration:	37
Monthly Average:	1.99	ppm		Operational Uptime:	99.3

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average	
Aug 1	1.94	1.95	1.96	1.96	1.97	1.97	\$	1.99	1.97	1.95	1.93	1.93	1.93	1.93	1.93	1.93	1.92	1.93	1.92	1.93	1.94	1.95	1.95	1.96	1.92	1.99	1.95	
Aug 2	1.98	1.96	1.97	1.99	1.99	\$	1.99	1.97	1.98	1.96	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.96	1.98	2.00	2.00	2.00	1.94	2.00	1.97	
Aug 3	2.00	2.01	2.04	2.08	\$	2.08	2.03	2.03	2.03	2.01	1.97	1.97	1.96	1.96	1.96	1.95	1.96	1.96	1.97	1.99	1.98	1.99	2.01	2.00	1.95	2.08	2.00	
Aug 4	2.00	2.01	2.00	\$	2.06	2.05	2.05	2.05	2.02	2.01	1.99	2.00	2.00	1.99	1.99	1.98	1.99	2.00	2.01	1.98	1.98	2.00	2.00	2.00	1.98	2.06	2.01	
Aug 5	2.00	2.00	2.00	\$	2.00	2.00	2.00	2.00	2.00	1.99	1.99	2.00	1.99	1.98	1.98	1.99	1.99	1.99	2.00	2.00	1.98	2.00	2.02	2.01	2.01	1.98	2.02	2.00
Aug 6	2.01	\$	2.03	2.04	2.04	2.03	2.03	2.03	2.04	2.02	2.01	2.01	2.00	1.99	1.98	1.98	1.98	1.98	1.99	1.99	2.01	2.01	2.02	2.02	1.98	2.04	2.01	
Aug 7	\$	2.02	2.04	2.03	2.03	2.03	2.02	2.03	2.03	2.01	2.01	1.99	1.99	1.99	1.97	1.97	1.98	1.97	1.98	1.99	1.99	1.99	2.08	\$	1.97	2.08	2.01	
Aug 8	2.08	2.05	2.06	2.05	2.03	2.05	2.05	2.05	2.04	2.03	2.02	2.00	1.99	1.99	1.98	1.98	NRM	NRM	1.98	1.99	2.00	2.03	\$	2.02	1.98	2.08	2.02	
Aug 9	2.05	2.06	2.05	2.06	2.07	2.07	2.07	2.05	2.02	2.01	2.00	1.99	1.99	1.99	1.99	1.98	1.97	1.97	1.98	2.00	2.00	\$	2.01	2.02	1.97	2.07	2.02	
Aug 10	2.01	2.01	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.02	2.01	1.99	1.98	1.97	1.96	1.96	1.96	1.96	1.97	\$	2.02	2.00	2.01	1.96	2.02	1.99	
Aug 11	2.01	2.01	2.01	2.01	2.00	2.01	2.02	2.02	2.02	2.01	2.00	1.98	1.98	1.97	1.97	1.96	1.95	1.95	1.95	\$	2.00	2.01	2.01	1.99	1.95	2.02	1.99	
Aug 12	2.00	2.02	2.01	1.99	1.98	1.97	1.98	1.99	1.99	1.98	1.97	1.96	1.94	1.93	1.93	1.92	1.92	1.92	\$	1.97	2.00	1.97	1.95	1.95	1.92	2.02	1.97	
Aug 13	1.94	1.95	1.95	1.95	1.95	1.96	1.97	1.97	1.98	1.97	1.96	1.96	1.95	1.94	1.96	1.95	1.99	\$	2.06	2.16	2.35	2.35	2.28	2.31	1.94	2.35	2.04	
Aug 14	2.31	2.34	2.38	2.36	2.35	2.29	2.32	2.31	2.25	2.17	2.13	2.13	2.09	2.08	2.06	2.05	\$	2.06	2.05	2.06	2.06	2.06	2.11	2.13	2.05	2.38	2.18	
Aug 15	2.13	2.15	2.14	2.14	2.11	2.10	2.08	2.11	2.11	2.07	2.02	2.01	2.00	1.99	1.98	\$	1.97	1.98	1.98	1.99	1.99	1.99	1.99	2.03	1.97	2.15	2.05	
Aug 16	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.05	2.05	2.03	2.03	2.02	2.02	2.01	\$	2.03	2.03	2.04	2.05	2.05	2.08	2.08	2.09	2.08	2.01	2.09	2.05	
Aug 17	2.08	2.10	2.11	2.11	2.10	2.05	2.03	2.03	2.02	2.02	2.02	2.01	2.01	\$	2.02	2.00	2.01	2.00	2.00	2.00	2.00	2.01	2.03	2.05	2.00	2.11	2.04	
Aug 18	2.07	2.09	2.15	2.15	2.11	2.08	2.10	2.07	2.06	2.05	2.02	2.00	\$	1.98	1.97	1.97	1.97	1.99	2.01	2.02	2.04	2.06	2.09	2.12	1.97	2.15	2.05	
Aug 19	2.09	2.08	2.10	2.08	2.07	2.07	2.08	2.03	2.01	1.99	2.00	\$	1.96	1.96	1.95	1.94	1.93	1.93	1.94	1.95	1.98	1.97	1.94	1.95	1.93	2.10	2.00	
Aug 20	1.96	1.96	1.97	1.96	1.96	1.96	1.95	1.96	1.96	1.94	\$	1.93	1.92	1.92	P	P	X	1.91	1.92	1.92	1.93	1.94	1.95	1.96	1.91	1.97	1.94	
Aug 21	1.95	1.95	1.94	1.96	1.96	1.97	1.97	1.97	2.04	\$	2.02	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.99	2.00	2.00	2.00	2.01	2.01	1.94	2.04	1.98	
Aug 22	2.00	2.01	2.01	2.06	2.08	2.03	2.04	2.01	\$	1.99	1.94	C	C	C	C	1.93	1.94	1.93	1.93	1.93	1.94	1.96	1.97	1.98	1.93	2.08	1.98	
Aug 23	1.98	1.98	1.98	1.98	1.98	1.99	1.99	\$	1.99	1.96	1.93	1.90	1.89	1.89	1.89	1.89	1.88	1.89	1.91	1.95	1.95	1.94	1.95	1.96	1.88	1.99	1.94	
Aug 24	1.97	1.98	1.98	1.97	1.97	1.95	\$	1.93	1.94	1.94	1.94	1.93	1.93	1.94	1.95	1.95	1.95	1.94	1.94	1.94	1.96	1.95	1.95	1.97	1.93	1.98	1.95	
Aug 25	1.95	1.96	1.99	1.96	1.96	\$	1.96	1.95	1.95	1.95	1.96	1.95	1.93	1.93	1.92	1.92	1.93	1.93	1.93	1.93	1.94	1.95	1.95	1.95	1.92	1.99	1.95	
Aug 26	1.95	1.95	1.95	1.95	\$	1.94	1.97	2.02	2.03	2.00	1.98	1.95	1.93	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.92	1.95	1.96	1.96	1.95	1.91	2.03	1.95
Aug 27	1.94	1.95	1.96	\$	1.97	1.98	1.95	1.93	1.93	1.91	1.90	1.90	1.89	1.90	1.90	1.88	1.89	1.89	1.90	1.91	1.92	1.93	1.94	1.94	1.88	1.98	1.92	
Aug 28	1.94	1.94	\$	1.95	1.95	1.96	1.97	1.95	1.95	1.96	1.94	1.92	1.91	1.92	1.92	1.92	1.91	1.92	1.92	1.92	1.93	1.96	1.97	1.97	1.91	1.97	1.94	
Aug 29	1.95	\$	1.93	1.94	1.94	1.94	1.95	1.93	1.91	1.90	1.89	1.89	1.89	1.88	1.89	1.91	1.91	1.90	1.90	1.90	1.92	1.97	1.96	1.94	1.88	1.97	1.92	
Aug 30	\$	1.95	1.94	1.96	1.95	1.96	1.97	1.95	1.95	1.93	1.93	1.92	1.91	1.91	1.91	1.91	1.92	1.91	1.92	1.93	1.97	1.99	1.95	\$	1.91	1.99	1.94	
Aug 31	1.97	1.96	1.95	1.94	1.94	1.95	1.96	1.95	1.97	1.97	1.94	1.92	1.90	1.90	1.90	1.91	1.91	1.90	1.90	1.90	1.91	1.92	\$	1.93	1.90	1.97	1.93	
Diurnal Maximum	2.31	2.34	2.38	2.36	2.35	2.29	2.32	2.31	2.25	2.17	2.13	2.13	2.09	2.08	2.06	2.05	2.03	2.06	2.06	2.16	2.35	2.35	2.28	2.31				
Diurnal Average	2.01	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.01	1.99	1.98	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.96	1.97	1.99	2.00	2.00	2.01				

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

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

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

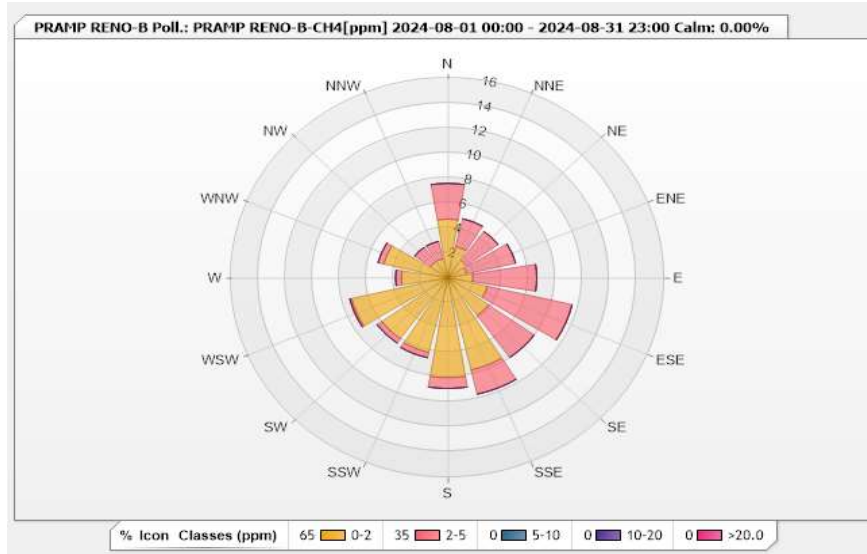


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-CH4[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.09% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	4.71	2.86	0	0	0	7.57
NNE	2.57	2.29	0	0	0	4.86
NE	1.71	2.86	0	0	0	4.57
ENE	1.43	3.71	0	0	0	5.14
E	1.86	4.71	0	0	0	6.57
ESE	3	6.43	0	0	0	9.43
SE	3.71	4.14	0	0	0	7.85
SSE	7.57	2	0	0	0	9.57
S	8	0.86	0	0	0	8.86
SSW	6.14	0.43	0	0	0	6.57
SW	6	0.43	0	0	0	6.43
WSW	7.29	0.14	0	0	0	7.43
W	3.43	0.43	0	0	0	3.86
WNW	4.86	0.43	0	0	0	5.29
NW	1.57	1.43	0	0	0	3
NNW	1.57	1.43	0	0	0	3
Summary	65.42	34.58	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - August 2024

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

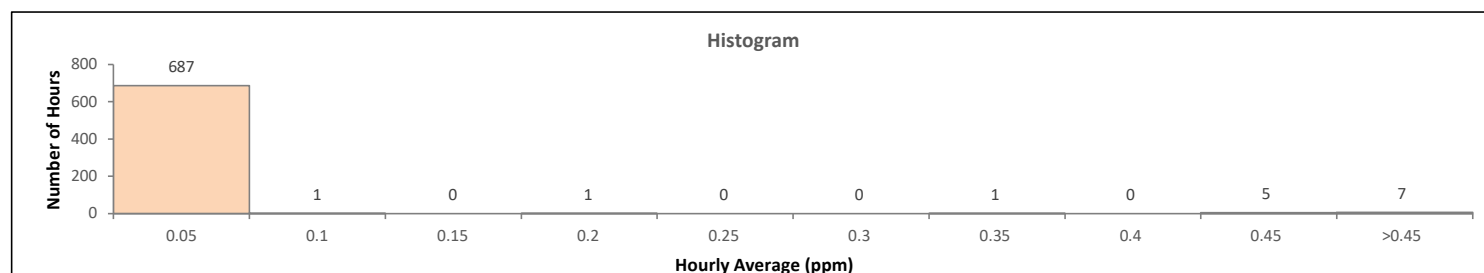
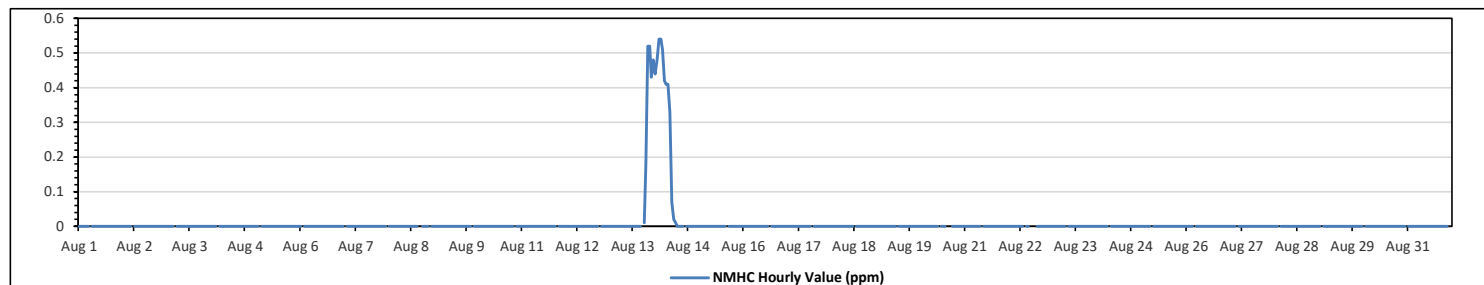
Maximum Hourly Value:	0.54	ppm	on Aug 14 at hr 2	Hours in Service:	744
Maximum Daily Value:	0.18	ppm	on Aug 14	Hours of Data:	702
Minimum Hourly Value:	0.00	ppm	on Aug 1 at hr 0	Hours of Missing Data:	5
Minimum Daily Value:	0.00	ppm	on Aug 1	Hours of Calibration:	37
Monthly Average:	0.01	ppm		Operational Uptime:	99.3

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
Aug 1	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 2	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 3	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 4	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 5	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 6	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 7	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00
Aug 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NRM	NRM	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
Aug 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Aug 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Aug 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Aug 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.01	0.18	0.52	0.52	0.43	0.48	0.00	0.52
Aug 14	0.44	0.48	0.54	0.54	0.51	0.42	0.41	0.41	0.33	0.07	0.02	0.01	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
Aug 15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	P	P	X	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 24	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 25	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 26	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 27	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 28	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 29	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 30	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
Aug 31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
Diurnal Maximum	0.44	0.48	0.54	0.54	0.51	0.42	0.41	0.41	0.33	0.07	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.18	0.52	0.52	0.43	0.48		
Diurnal Average	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.01	0.02	

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

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

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

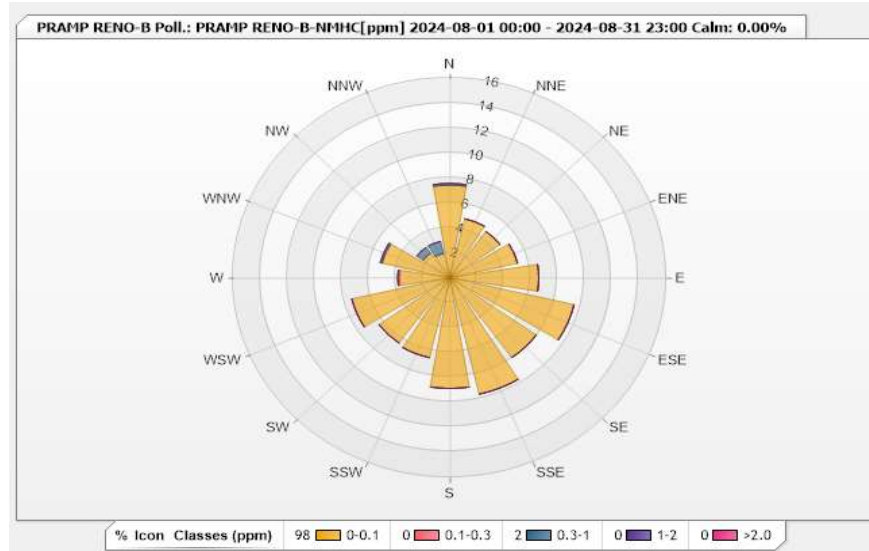


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-NMHC[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.09% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	7.43	0	0.14	0	0	7.57
NNE	4.86	0	0	0	0	4.86
NE	4.57	0	0	0	0	4.57
ENE	5.14	0	0	0	0	5.14
E	6.57	0	0	0	0	6.57
ESE	9.43	0	0	0	0	9.43
SE	7.86	0	0	0	0	7.86
SSE	9.57	0	0	0	0	9.57
S	8.86	0	0	0	0	8.86
SSW	6.57	0	0	0	0	6.57
SW	6.43	0	0	0	0	6.43
WSW	7.43	0	0	0	0	7.43
W	3.71	0.14	0	0	0	3.85
WNW	5.14	0	0.14	0	0	5.28
NW	2.43	0	0.57	0	0	3
NNW	2	0	1	0	0	3
Summary	98	0.14	1.85	0	0	100



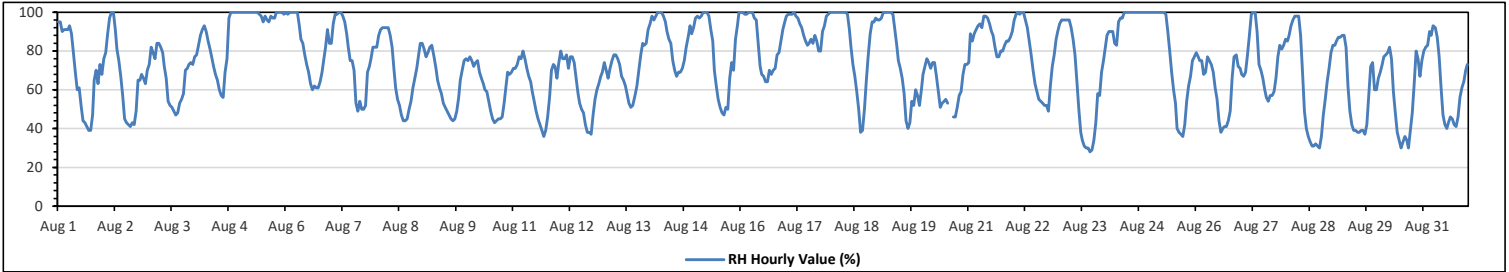
Peace River Area Monitoring Program

Reno-B Station - August 2024

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Aug 2 at hr 4	Hours in Service:	744																											
Maximum Daily Value:	98.8	%	on Aug 5	Hours of Data:	742																											
Minimum Hourly Value:	28	%	on Aug 23 at hr 16	Hours of Missing Data:	2																											
Minimum Daily Value:	57.9	%	on Aug 30	Hours of Calibration:	0																											
Monthly Average:	73.2	%		Operational Uptime:	99.7																											
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average					
Aug 1	95	95	90	91	91	91	93	89	79	69	60	61	52	44	43	41	39	39	47	65	70	63	73	68	39	95	68.7					
Aug 2	76	79	89	97	100	100	91	81	75	67	57	45	43	42	41	43	42	49	65	65	68	66	63	70	41	100	67.3					
Aug 3	73	82	79	76	84	84	82	79	72	66	54	52	51	49	47	48	53	55	58	70	71	73	74	73	47	84	66.9					
Aug 4	77	78	83	88	91	93	90	85	81	77	72	68	65	60	57	56	69	76	97	100	100	100	100	100	56	100	81.8					
Aug 5	100	100	100	100	100	100	100	100	100	100	99	98	95	98	96	95	98	97	97	100	100	100	100	100	99	95	100	98.8				
Aug 6	100	99	100	100	100	100	100	93	86	84	78	73	69	63	60	62	61	61	64	69	75	82	91	84	60	100	81.4					
Aug 7	84	94	99	99	100	100	98	95	89	82	75	75	70	53	49	54	50	50	52	69	72	76	82	82	49	100	77.0					
Aug 8	82	88	91	92	92	92	92	88	82	70	61	55	52	47	44	44	45	50	54	61	66	71	77	84	44	92	70.0					
Aug 9	84	81	77	79	82	83	77	71	65	61	58	53	51	49	47	45	44	45	49	56	65	70	75	76	44	84	64.3					
Aug 10	75	77	75	72	74	75	69	66	63	60	59	54	49	45	43	44	45	45	46	53	62	69	68	69	43	77	60.7					
Aug 11	71	71	73	77	76	80	76	71	67	64	59	54	49	45	42	39	36	39	46	56	70	73	72	66	36	80	61.3					
Aug 12	74	80	76	76	78	71	77	77	74	66	58	53	50	48	42	38	38	37	47	55	60	63	67	69	37	80	61.4					
Aug 13	74	70	66	71	75	78	78	76	73	67	65	62	58	53	51	52	57	62	70	78	84	83	84	91	51	91	69.9					
Aug 14	94	98	96	98	100	100	100	98	95	90	86	84	75	70	67	69	69	71	75	82	87	93	89	92	67	100	86.6					
Aug 15	97	98	97	98	100	100	100	98	91	85	70	62	55	51	48	47	51	50	66	74	70	86	93	100	47	100	78.6					
Aug 16	100	100	99	99	100	100	100	97	96	84	72	68	67	64	64	70	68	70	71	78	79	85	91	95	64	100	84.0					
Aug 17	98	99	99	99	100	98	97	94	92	88	85	83	84	86	84	88	85	80	80	90	93	98	99	100	80	100	91.6					
Aug 18	100	100	100	100	100	100	100	100	99	91	82	73	67	59	50	38	39	50	65	78	89	95	95	97	38	100	82.0					
Aug 19	96	96	97	100	100	100	100	100	99	91	83	75	71	66	58	44	40	43	54	52	60	57	52	60	40	100	74.8					
Aug 20	68	72	76	74	71	74	74	67	59	51	53	54	55	53	P	P	46	46	51	57	59	68	73	73	46	76	62.5					
Aug 21	74	89	85	89	91	93	94	92	98	98	97	94	90	88	82	77	77	80	80	83	85	85	87	90	74	98	87.4					
Aug 22	96	99	100	99	100	100	96	92	85	78	70	63	59	55	54	53	52	52	49	62	72	78	86	90	49	100	76.7					
Aug 23	94	96	96	96	96	96	92	86	78	64	50	38	34	31	30	30	28	29	34	43	58	57	69	75	28	96	62.5					
Aug 24	81	88	90	90	90	84	83	95	97	97	100	100	100	100	100	100	100	100	100	100	100	100	100	100	81	100	95.6					
Aug 25	100	100	100	100	100	100	100	100	99	90	80	69	60	53	40	38	37	36	42	54	62	67	75	77	36	100	74.1					
Aug 26	79	77	75	75	68	69	77	75	73	69	61	55	44	38	40	41	41	44	49	66	77	78	72	71	38	79	63.1					
Aug 27	68	67	69	78	88	99	100	100	90	73	70	66	60	56	54	57	57	59	66	77	83	81	83	86	54	100	74.5					
Aug 28	85	88	93	96	98	98	98	88	69	49	40	36	33	31	31	32	31	30	36	47	55	64	71	79	30	98	61.6					
Aug 29	83	83	85	87	87	88	88	82	62	49	42	39	39	38	38	39	39	37	42	57	72	74	60	60	37	88	61.3					
Aug 30	66	69	73	77	78	79	82	76	59	48	38	34	30	33	36	34	30	39	48	63	80	76	67	75	30	82	57.9					
Aug 31	80	82	83	90	88	93	92	87	77	61	47	42	40	43	46	45	42	41	46	56	61	64	70	73	40	93	64.5					
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100							
Diurnal Average	84.6	86.9	87.5	89.1	90.3	90.9	90.2	87.0	81.4	73.8	67.1	62.5	58.6	55.2	52.8	52.1	51.9	53.6	59.5	68.3	74.4	77.3	79.3	81.4								
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



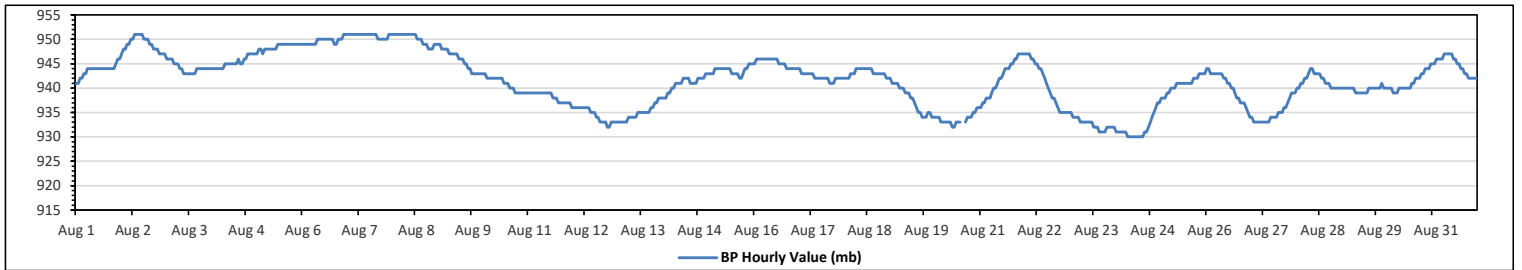
Peace River Area Monitoring Program

Reno-B Station - August 2024

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	951	mb	on Aug 2 at hr 7	Hours in Service:	744																											
Maximum Daily Value:	951	mb	on Aug 7	Hours of Data:	742																											
Minimum Hourly Value:	930	mb	on Aug 24 at hr 6	Hours of Missing Data:	2																											
Minimum Daily Value:	932	mb	on Aug 24	Hours of Calibration:	0																											
Monthly Average:	942	mb		Operational Uptime:	99.7																											
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average					
Aug 1	941	941	942	942	943	943	944	944	944	944	944	944	944	944	944	944	944	944	944	944	944	945	946	946	941	946	944					
Aug 2	947	948	948	949	949	950	950	951	951	951	951	951	950	950	950	949	949	948	948	948	947	947	947	947	947	951	949					
Aug 3	946	946	946	946	945	945	945	944	944	943	943	943	943	943	943	943	944	944	944	944	944	944	944	943	946	944						
Aug 4	944	944	944	944	944	944	944	944	945	945	945	945	945	945	946	945	945	946	946	947	947	947	947	947	944	947	945					
Aug 5	947	948	948	947	948	948	948	948	948	948	948	949	949	949	949	949	949	949	949	949	949	949	949	947	949	948						
Aug 6	949	949	949	949	949	949	949	949	950	950	950	950	950	950	950	950	950	949	949	950	950	950	951	951	949	951	950					
Aug 7	951	951	951	951	951	951	951	951	951	951	951	951	951	951	951	951	950	950	950	950	950	950	951	951	950	951	951					
Aug 8	951	951	951	951	951	951	951	951	951	951	951	951	951	951	950	950	950	949	949	948	948	948	948	949	948	951	950					
Aug 9	949	949	948	948	948	948	947	947	947	947	947	946	946	946	945	945	944	944	943	943	943	943	943	943	943	949	946					
Aug 10	943	943	942	942	942	942	942	942	942	942	942	941	941	941	940	940	940	939	939	939	939	939	939	939	939	943	941					
Aug 11	939	939	939	939	939	939	939	939	939	939	939	939	939	938	938	938	937	937	937	937	937	937	937	936	939	938						
Aug 12	936	936	936	936	936	936	936	936	936	935	935	935	934	934	933	933	933	933	932	932	933	933	933	933	932	936	934					
Aug 13	933	933	933	933	933	934	934	934	934	934	935	935	935	935	935	935	935	936	936	937	937	938	938	938	933	938	935					
Aug 14	938	938	939	939	940	940	941	941	941	941	942	942	942	942	941	941	941	941	942	942	942	942	943	943	938	943	941					
Aug 15	943	943	943	944	944	944	944	944	944	944	944	944	943	943	943	943	942	942	943	944	944	945	945	945	942	945	944					
Aug 16	945	946	946	946	946	946	946	946	946	946	946	946	946	945	945	945	945	944	944	944	944	944	944	944	944	946	945					
Aug 17	944	943	943	943	943	943	943	943	942	942	942	942	942	942	942	942	941	941	941	941	942	942	942	942	941	944	942					
Aug 18	942	942	942	943	943	943	944	944	944	944	944	944	944	944	944	943	943	943	943	943	943	943	942	942	942	944	943					
Aug 19	942	941	941	941	941	940	940	940	939	939	939	938	938	937	936	935	935	934	934	934	935	935	934	934	934	942	938					
Aug 20	934	934	934	933	933	933	933	933	933	932	932	933	933	933	P	P	933	934	934	934	935	935	936	936	932	936	934					
Aug 21	936	937	937	938	938	938	939	940	940	941	942	942	943	944	944	944	945	945	946	946	947	947	947	947	936	947	942					
Aug 22	947	947	947	946	946	945	945	944	944	943	942	941	940	939	938	938	937	936	935	935	935	935	935	935	935	947	941					
Aug 23	935	934	934	934	934	933	933	933	933	933	933	933	932	932	932	931	931	931	931	932	932	932	932	932	931	935	933					
Aug 24	931	931	931	931	931	931	930	930	930	930	930	930	930	930	930	931	931	932	933	934	935	936	937	937	930	937	932					
Aug 25	938	938	938	939	939	940	940	940	941	941	941	941	941	941	941	941	941	942	942	942	943	943	943	943	938	943	941					
Aug 26	944	944	943	943	943	943	943	943	943	942	942	941	941	940	940	939	938	937	937	937	937	936	935	934	934	944	940					
Aug 27	934	933	933	933	933	933	933	933	933	933	934	934	934	934	935	935	935	936	936	937	938	939	939	939	933	939	935					
Aug 28	940	940	941	941	942	942	943	944	944	943	943	943	943	942	942	941	941	941	940	940	940	940	940	940	940	944	942					
Aug 29	940	940	940	940	940	940	940	939	939	939	939	939	939	939	940	940	940	940	940	940	941	940	940	940	939	941	940					
Aug 30	940	940	940	939	939	939	940	940	940	940	940	940	940	941	941	942	942	942	943	943	944	944	944	945	939	945	941					
Aug 31	945	945	946	946	946	946	947	947	947	947	947	946	946	945	945	944	944	943	943	942	942	942	942	942	942	947	945					
Diurnal Maximum	951	951	951	951	951	951	951	951	951	951	951	951	951	951	951	951	950	950	950	950	950	951	951	951								
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	942							
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



Peace River Area Monitoring Program

Reno-B Station - August 2024

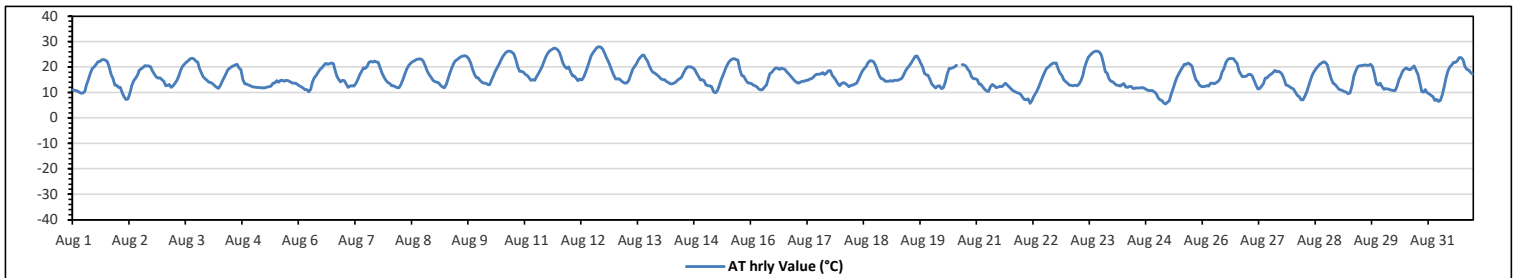
Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	28.0	°C	on Aug 12 at hr 15	Hours in Service:	744																											
Maximum Daily Value:	21.0	°C	on Aug 11	Hours of Data:	742																											
Minimum Hourly Value:	5.5	°C	on Aug 25 at hr 4	Hours of Missing Data:	2																											
Minimum Daily Value:	11.9	°C	on Aug 21	Hours of Calibration:	0																											
Monthly Average:	16.4	°C		Operational Uptime:	99.7																											
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average					
Aug 1	11	10.7	10.6	10.2	9.8	9.7	10.5	12.9	15.1	17.4	19.3	20.1	21	22.1	22.3	22.8	22.9	22.7	22.3	20.2	17.2	15.6	12.9	13	9.7	22.9	16.3					
Aug 2	12	12	9.9	8.3	7.3	7.5	9.8	12.8	14.6	15.7	17	18.7	19.3	19.9	20.6	20.5	20.5	20.2	18.6	17.3	16.1	15.7	15.8	15	7.3	20.6	15.2					
Aug 3	14.4	12.7	12.8	13.2	12	12.7	13.7	14.8	16.6	18.6	20.2	21.1	21.8	22.5	23.2	23.5	23.2	22.4	21.9	19.6	17.8	16.2	15.4	14.7	12.0	23.5	17.7					
Aug 4	14.1	13.9	13.4	12.7	12	11.7	12.7	14.3	15.8	17.3	18.9	19.5	20	20.5	20.9	21.1	19.8	18.9	15.1	13.4	13.3	13	12.6	12.3	11.7	21.1	15.7					
Aug 5	12.1	12	12	11.9	11.9	11.8	11.9	12.1	12.2	12.5	13.6	13.8	14.6	14.1	14.7	14.8	14.5	14.7	14.6	14.3	13.8	13.6	13.6	13.2	11.8	14.8	13.3					
Aug 6	12.6	12.3	11.8	11.2	11.1	10.3	11.3	13.9	15.9	16.7	18	19.1	19.8	20.7	21.4	21.1	21.3	21.6	21.3	18.8	16.3	15	14.2	14.8	10.3	21.6	16.3					
Aug 7	14.6	13.3	12	12.5	12.7	12.5	13.5	15	16.9	18.4	19.8	19.5	20.2	21.8	22.2	22	22.4	21.9	21.8	19.7	17.6	16	14.8	13.9	12.0	22.4	17.3					
Aug 8	13.5	12.6	12.6	12.3	11.9	11.9	13.2	15.1	17.2	19.2	20.6	21.4	22.1	22.5	22.9	23.1	23.2	22.9	22.2	20.5	18.5	17.1	16	14.7	11.9	23.2	17.8					
Aug 9	14.3	14	13.8	12.8	12.1	11.9	13.3	15.3	17.7	19.8	21.4	22.5	23	23.6	24	24.3	24.5	24.1	23.2	21.5	19	17.1	15.8	15.8	11.9	24.5	18.5					
Aug 10	14.8	14	13.7	13.7	13.2	13.1	14.9	16.6	18.2	19.6	21	22.6	24.1	25.1	25.9	26.2	26.2	25.8	25.1	23	20.1	18.4	18.4	17.9	13.1	26.2	19.7					
Aug 11	17.1	16.7	15.7	14.7	15.1	14.7	16	17.3	18.7	20.2	22.2	24.1	25.4	26.4	26.9	27.4	27.4	26.9	25.9	24.1	21.5	20.2	19.5	20.1	14.7	27.4	21.0					
Aug 12	18.2	16.6	16.6	15.7	14.6	15.3	14.9	16	17.9	20.1	22	24.3	25.6	26.6	27.6	28	27.9	27.1	25.6	23.8	22.2	20.3	18.4	16.8	14.6	28.0	20.9					
Aug 13	15.3	15.3	15.5	14.6	14.1	13.6	13.8	14.8	16.9	19.1	20.2	21.3	22.8	23.9	24.6	24.7	23.4	22.2	20.2	18.7	17.9	17.5	17	16.3	13.6	24.7	18.5					
Aug 14	15.5	15	15	14.3	13.9	13.4	13.4	13.6	14.2	14.9	15.5	16	17.7	19	20.1	20	20.1	19.8	19.1	17.5	16.3	14.9	15.1	14.6	13.4	20.1	16.2					
Aug 15	13.1	12.6	12.7	12.2	10.3	9.9	10.8	12.8	15.2	16.9	18.9	20.4	21.8	22.7	23.1	23.4	22.9	22.7	19.1	16.7	16.4	15	13.9	13.7	9.9	23.4	16.6					
Aug 16	13.5	13	12.6	12.2	11.4	11	11.1	12.1	13	15.5	17.4	18	18.9	19.7	19.6	19.1	19.6	19.3	19.1	18.1	17.3	16.4	15.6	14.6	11.0	19.7	15.8					
Aug 17	14.1	13.7	14.1	14.4	14.5	14.7	14.8	15.3	15.5	16	16.8	17.2	17.2	17.3	17.8	17.1	17.7	18.6	18.6	16.7	15.8	14.6	13.5	12.6	12.6	18.6	15.8					
Aug 18	13.5	13.9	13.5	13	12.3	12.8	13	13.3	13.7	15.2	17	18.5	19.5	20.3	21.6	22.5	22.5	22.1	20.7	18.6	16.5	15.5	15.3	14.5	12.3	22.5	16.6					
Aug 19	14.4	14.4	14.6	14.4	14.8	14.7	14.7	15.2	15.6	17	18.6	19.8	20.6	21.7	22.9	24.2	24.3	23	21.5	20.1	17.6	16.9	16.8	15.2	14.4	24.3	18.0					
Aug 20	13.3	12.5	11.8	12.5	12.6	11.6	11.9	14	17.2	19.4	19.5	19.7	20	20.7	P	P	21	20.9	20.3	19.2	18.3	16.2	15.4	15.4	11.6	21.0	16.5					
Aug 21	15.1	13.3	13.3	12.3	11.3	10.6	10.5	12.3	13.2	12.6	11.9	12.1	12.4	12.2	13	13.7	12.9	12.1	11.5	10.8	10.4	10	9.7	9.3	9.3	15.1	11.9					
Aug 22	8.2	7.3	7.1	7.5	5.8	6.9	8.4	9.6	11	12.8	14.8	16.7	18.1	19.6	20	20.8	21.4	21.6	21.5	19.2	17.5	16.6	15	14.3	5.8	21.6	14.2					
Aug 23	13.6	13	12.8	12.7	12.9	12.6	13.3	14.6	16.7	19.7	22	23.9	24.7	25.4	26	26.2	26.3	25.8	24.6	21.7	18.2	17.5	15.3	14.5	12.6	26.3	18.9					
Aug 24	14.2	13.4	12.9	12.8	12.5	13.2	13.5	12.1	12	12.4	12.3	11.5	11.8	11.8	11.8	11.9	11.9	11.5	11.1	10.8	10.8	10.8	10.3	9.6	9.6	14.2	12.0					
Aug 25	8	7.1	6.8	6	5.5	6.1	6.7	9.3	11.6	13.9	15.7	17.2	18.6	19.9	21.1	21.1	21.5	21.1	20.3	17.4	15.1	14.2	12.9	12.4	5.5	21.5	13.7					
Aug 26	12.2	12.4	12.6	12.5	13.6	13.7	13.4	13.9	14.5	15.4	18.1	19.4	21.8	23	23.3	23.4	23.3	22.4	21.4	18.5	17.1	16.2	16.3	16.4	12.2	23.4	17.3					
Aug 27	17.1	17.2	16.6	14.8	12.9	11.4	11.5	12.4	13.4	15.7	15.9	16.7	17.2	17.8	18.7	18.2	18.3	17.8	17.1	15.2	13	12.8	12.2	11.8	11.4	18.7	15.2					
Aug 28	11.4	10.2	8.9	8.4	7.1	7.1	8.6	10.4	12.8	15.2	16.9	18.3	19.4	20.3	21.1	21.6	22.1	21.8	20.9	18	15.4	13.7	13.2	12.3	7.1	22.1	14.8					
Aug 29	11.3	11	10.8	10.5	10.1	9.5	9.9	12.6	16.5	18.6	20.2	20.5	20.6	20.7	20.9	20.7	20.7	21.1	20.2	17.3	13.7	12.9	13.7	12.3	9.5	21.1	15.7					
Aug 30	11.3	11.5	11.4	11.1	10.9	10.7	10.7	12.5	15.2	16.4	18.3	19.2	19.8	19.1	18.9	19.8	20.4	18.8	17.2	13.9	10.4	10.2	11.1	9.9	9.9	20.4	14.5					
Aug 31	9.5	8.9	8.4	6.9	7.3	6.5	6.9	9.1	12.2	15.9	18.6	20.1	20.9	21.8	21.8	22.5	23.7	23.7	22.8	20.2	19.1	18.8	17.8	17.3	6.5	23.7	15.9					
Diurnal Maximum	18.2	17.2	16.6	15.7	15.1	15.3	16.0	17.3	18.7	20.2	22.2	24.3	25.6	26.6	27.6	28.0	27.9	27.1	25.9	24.1	22.2	20.3	19.5	20.1								
Diurnal Average	13.3	12.8	12.5	12.0	11.5	11.4	12.0	13.4	15.1	16.7	18.1	19.1	20.0	20.7	21.3	21.5	21.5	21.1	20.2	18.2	16.5	15.4	14.8	14.2								
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																

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

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



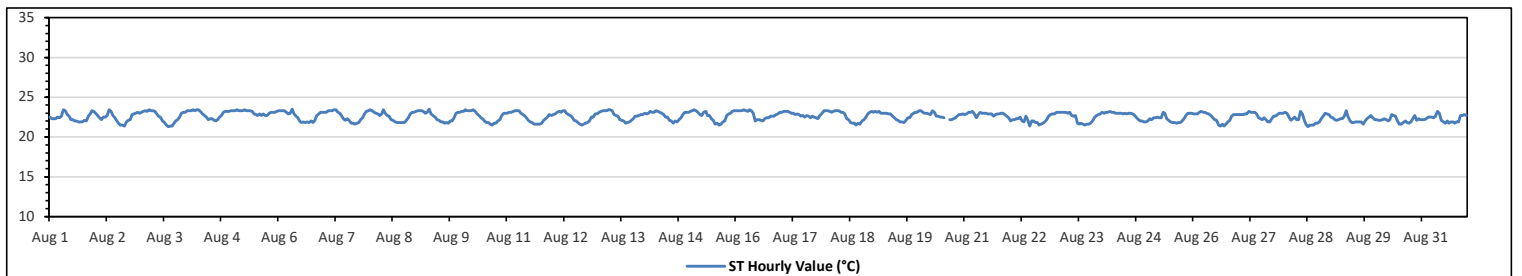
Peace River Area Monitoring Program

Reno-B Station - August 2024

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	23.5	°C	on Aug 6 at hr 7	Hours in Service:	744																										
Maximum Daily Value:	23.1	°C	on Aug 5	Hours of Data:	742																										
Minimum Hourly Value:	21.3	°C	on Aug 3 at hr 14	Hours of Missing Data:	2																										
Minimum Daily Value:	22.1	°C	on Aug 22	Hours of Calibration:	0																										
Monthly Average:	22.6	°C		Operational Uptime:	99.7																										
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average				
Aug 1	22.5	22.3	22.3	22.3	22.5	22.4	22.6	23.4	23.3	22.8	22.6	22.2	22.2	22.0	22.0	21.9	21.9	21.9	22.1	22.0	22.6	22.9	23.3	23.2	21.9	23.4	22.5				
Aug 2	23.0	22.7	22.4	22.2	22.5	22.5	22.7	23.4	23.2	22.7	22.4	22.1	21.7	21.5	21.5	21.4	21.9	22.1	22.2	22.8	22.9	23.0	23.1	23.0	21.4	23.4	22.5				
Aug 3	23.1	23.2	23.3	23.2	23.4	23.3	23.3	23.2	22.9	22.6	22.5	22.0	21.8	21.5	21.3	21.4	21.4	21.7	22.0	22.2	22.5	23.0	23.1	23.1	21.3	23.4	22.5				
Aug 4	23.3	23.3	23.3	23.4	23.3	23.4	23.4	23.2	22.9	22.7	22.5	22.2	22.3	22.3	22.1	22.0	22.2	22.5	22.7	23.1	23.2	23.2	23.2	23.3	22.0	23.4	22.9				
Aug 5	23.3	23.3	23.4	23.3	23.3	23.3	23.4	23.3	23.3	23.3	23.2	22.9	22.8	22.7	22.9	22.7	22.9	22.7	22.7	23.0	23.1	23.1	23.1	23.2	22.7	23.4	23.1				
Aug 6	23.3	23.3	23.3	23.3	23.1	22.9	23.0	23.5	22.9	22.6	22.4	22.0	21.8	21.9	21.8	21.9	21.8	22.0	21.8	22.1	22.7	22.9	23.1	23.1	21.8	23.5	22.6				
Aug 7	23.1	23.1	23.3	23.3	23.3	23.3	23.4	23.4	23.1	23.0	22.7	22.3	22.1	22.3	22.1	21.7	21.7	21.6	21.7	21.8	22.2	22.4	22.9	23.2	23.3	21.6	23.4	22.6			
Aug 8	23.4	23.3	23.1	23.0	22.9	22.7	22.9	23.4	23.0	22.7	22.6	22.2	22.1	21.9	21.8	21.8	21.8	21.8	21.8	22.1	22.4	22.9	23.1	23.1	21.8	23.4	22.6				
Aug 9	23.2	23.3	23.3	23.3	23.2	23.0	23.1	23.5	22.9	22.7	22.5	22.2	22.1	21.9	21.9	21.9	21.7	21.8	21.7	22.0	22.0	22.4	23.0	23.1	21.7	23.5	22.6				
Aug 10	23.2	23.2	23.4	23.3	23.3	23.3	23.4	23.2	22.9	22.7	22.4	22.3	22.0	21.8	21.8	21.6	21.5	21.7	21.7	22.0	22.2	22.7	23.0	23.0	21.5	23.4	22.6				
Aug 11	23.0	23.1	23.1	23.2	23.3	23.3	23.3	23.0	22.8	22.7	22.4	22.1	21.9	21.8	21.6	21.6	21.6	21.6	21.7	22.1	22.3	22.5	22.8	22.7	21.6	23.3	22.5				
Aug 12	22.8	22.9	23.1	23.2	23.1	23.3	23.3	23.0	22.8	22.7	22.5	22.1	22.0	21.8	21.6	21.5	21.6	21.7	21.8	22.0	22.5	22.5	22.9	22.9	21.5	23.3	22.5				
Aug 13	23.1	23.2	23.3	23.3	23.3	23.4	23.4	23.3	22.8	22.7	22.6	22.2	22.1	22.0	21.7	21.8	21.9	22.1	22.3	22.6	22.6	22.7	22.8	22.8	21.7	23.4	22.7				
Aug 14	23.0	22.9	23.0	23.2	23.1	23.1	23.3	23.2	23.1	23.0	22.8	22.5	22.5	22.1	22.0	21.7	22.0	21.9	22.2	22.2	22.4	22.8	23.1	23.1	21.7	23.3	22.7				
Aug 15	23.2	23.3	23.4	23.3	23.1	22.8	22.7	23.1	23.2	22.7	22.7	22.3	22.1	21.6	21.7	21.5	21.6	21.9	22.0	22.7	22.9	23.0	23.2	23.3	21.5	23.4	22.6				
Aug 16	23.3	23.3	23.3	23.3	23.3	23.4	23.3	23.2	23.4	23.3	23.0	22.0	22.2	22.2	22.1	22.0	22.3	22.4	22.4	22.6	22.6	22.8	22.9	23.1	22.0	23.4	22.8				
Aug 17	23.1	23.2	23.2	23.2	23.1	23.0	23.0	22.8	22.9	22.8	22.6	22.7	22.5	22.7	22.6	22.4	22.6	22.5	22.4	22.3	22.7	23.0	23.3	23.3	22.3	23.3	22.8				
Aug 18	23.3	23.2	23.1	23.2	23.3	23.3	23.3	23.1	23.1	22.9	22.3	22.2	21.8	21.7	21.7	21.5	21.7	21.6	22.0	22.2	22.5	22.9	23.1	23.2	21.5	23.3	22.6				
Aug 19	23.1	23.2	23.1	23.2	23.0	23.0	23.0	23.0	22.9	22.9	22.6	22.4	22.2	22.1	21.9	21.9	21.8	22.1	22.4	22.4	22.8	23.0	23.1	23.1	21.8	23.2	22.7				
Aug 20	23.3	23.3	23.1	23.0	23.0	22.9	22.8	23.3	23.1	22.6	22.6	22.5	22.5	22.4	P	P	22.2	22.2	22.3	22.4	22.6	22.8	22.8	22.9	22.2	23.3	22.8				
Aug 21	22.8	22.9	23.1	23.1	23.2	22.9	22.4	22.8	23.1	23.0	23.0	22.9	22.9	22.9	22.9	22.6	22.8	22.9	22.9	23.0	23.0	22.8	22.6	22.4	22.4	23.2	22.9				
Aug 22	22.0	22.2	22.2	22.3	22.3	22.5	22.0	21.9	22.6	22.1	21.4	22.0	22.0	21.8	21.8	21.5	21.6	21.7	21.9	22.2	22.6	22.8	22.9	22.9	21.4	22.9	22.1				
Aug 23	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.1	22.7	22.6	22.7	21.7	21.6	21.7	21.6	21.5	21.6	21.6	21.7	22.0	22.5	22.7	22.8	22.9	21.5	23.1	22.4				
Aug 24	23.1	23.0	23.1	23.1	23.2	23.1	23.1	23.0	23.0	23.0	23.0	22.9	23.0	22.9	23.0	23.0	22.9	22.7	22.4	22.2	22.0	22.0	21.9	21.9	21.9	23.2	22.8				
Aug 25	22.0	22.3	22.2	22.4	22.4	22.5	22.4	22.4	23.1	23.0	22.3	22.1	21.9	21.8	21.8	21.7	21.8	21.8	22.0	22.3	22.7	23.0	23.0	23.0	21.7	23.1	22.3				
Aug 26	22.9	22.9	22.9	23.1	23.2	23.1	23.1	23.0	22.9	22.7	22.4	22.2	22.1	21.5	21.4	21.6	21.4	21.6	21.9	22.1	22.6	22.8	22.8	22.8	21.4	23.2	22.5				
Aug 27	22.8	22.8	22.8	22.9	22.9	23.2	23.1	23.1	23.1	22.9	22.4	22.3	22.2	22.4	22.2	21.9	21.9	22.3	22.6	22.6	22.8	23.0	23.0	23.0	21.9	23.2	22.7				
Aug 28	23.1	23.0	22.5	22.1	22.3	22.5	22.2	22.2	23.2	22.9	22.1	21.6	21.3	21.5	21.5	21.5	21.7	21.7	21.9	22.3	22.6	23.0	22.9	22.8	21.3	23.2	22.3				
Aug 29	22.5	22.4	22.2	22.1	22.2	22.3	22.3	22.6	23.3	22.6	22.1	21.8	21.8	21.9	21.9	21.9	21.9	21.6	22.0	22.3	22.5	22.7	22.4	22.2	21.6	23.3	22.2				
Aug 30	22.2	22.1	22.1	22.2	22.3	22.2	22.0	22.2	22.8	22.7	22.6	22.0	21.6	21.6	21.8	22.0	21.8	21.7	21.9	22.3	22.7	22.1	22.3	22.2	21.6	22.8	22.1				
Aug 31	22.2	22.2	22.3	22.5	22.5	22.5	22.4	22.6	23.2	23.0	22.1	21.9	21.7	22.0	21.7	21.9	21.9	21.7	21.9	21.9	22.7	22.7	22.8	22.7	21.7	23.2	22.3				
Diurnal Maximum	23.4	23.3	23.4	23.4	23.4	23.4	23.4	23.5	23.3	23.3	23.2	23.0	23.0	23.0	22.9	23.0	22.9	22.9	22.9	23.1	23.2	23.2	23.3	23.3							
Diurnal Average	22.9	23.0	22.9	23.0	23.0	23.0	22.9	23.0	23.0	22.8	22.5	22.2	22.1	22.0	21.9	21.8	21.9	22.0	22.1	22.3	22.6	22.8	22.9	22.9							
C	Monthly Calibration														S	Daily Zero-Span Check										Q	Quality Assurance				
K	Collection Error														ND	No Data (Machine Not in Service)										Y	Routine Maintenance				
X	Invalid Data (Equipment Malfunction /Recovery)														NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure				
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																															
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																															



Peace River Area Monitoring Program

Reno-B Station - August 2024

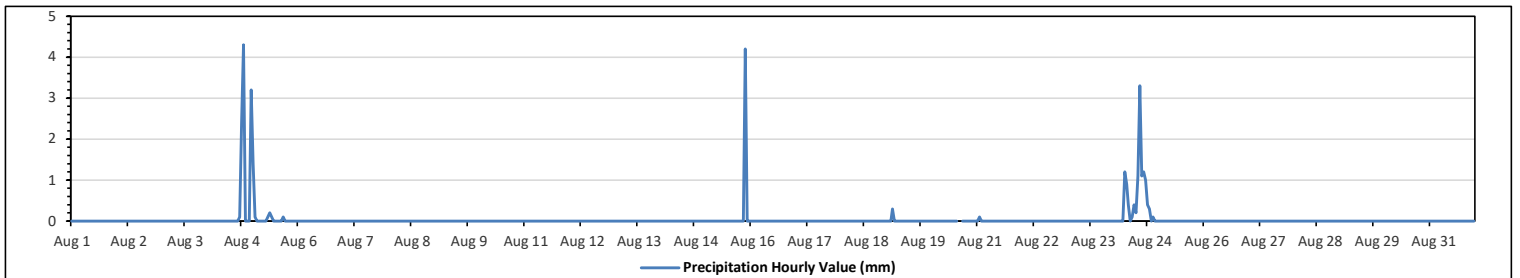
Summary of Hourly Averages

PRECIPITATION in mm

Maximum Hourly Value:	4.3	mm	on Aug 4 at hr 19	Hours in Service:	744																								
Maximum Daily Value:	11.7	mm	on Aug 24	Hours of Data:	742																								
Minimum Hourly Value:	0.0	mm	on Aug 1 at hr 0	Hours of Missing Data:	2																								
Minimum Daily Value:	0.0	mm	on Aug 1	Hours of Calibration:	0																								
Monthly Total:	28.3	mm		Operational Uptime:	99.7																								
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Total		
Aug 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		
Aug 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		
Aug 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		
Aug 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	2.4	4.3	0	0	0	3.2	0.0	4.3	10.0		
Aug 5	1.4	0.1	0	0	0	0	0	0	0.1	0.2	0.1	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0.0	1.4	2.0		
Aug 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		
Aug 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		
Aug 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		
Aug 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		
Aug 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		
Aug 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		
Aug 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		
Aug 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0		
Aug 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		
Aug 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.2	0	0	0.0	4.2	4.2		
Aug 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0		
Aug 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		
Aug 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		
Aug 19	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3	0.3		
Aug 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	P	P	0	0	0	0	0	0	0	0	0.0	0.0	0.0		
Aug 21	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1		
Aug 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		
Aug 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		
Aug 24	0	0	0	0	0	0	1.2	0.9	0.4	0	0.1	0.4	0.2	1.1	3.3	1.1	1.2	1	0.4	0.3	0	0.1	0	0	0.0	3.3	11.7		
Aug 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		
Aug 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		
Aug 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		
Aug 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		
Aug 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0		
Aug 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		
Aug 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	1.4	0.1	0.0	0.3	0.0	0.0	1.2	0.9	0.4	0.2	0.1	0.4	0.2	1.1	3.3	1.1	1.2	1.0	2.4	4.3	0.0	4.2	0.0	3.2					
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	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1					
C	Monthly Calibration								S	Daily Zero-Span Check								Q	Quality Assurance										
K	Collection Error								ND	No Data (Machine Not in Service)								Y	Routine Maintenance								P	Power Failure	
X	Invalid Data (Equipment Malfunction /Recovery)								NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																													

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

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



Peace River Area Monitoring Program

Reno-B Station - August 2024

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

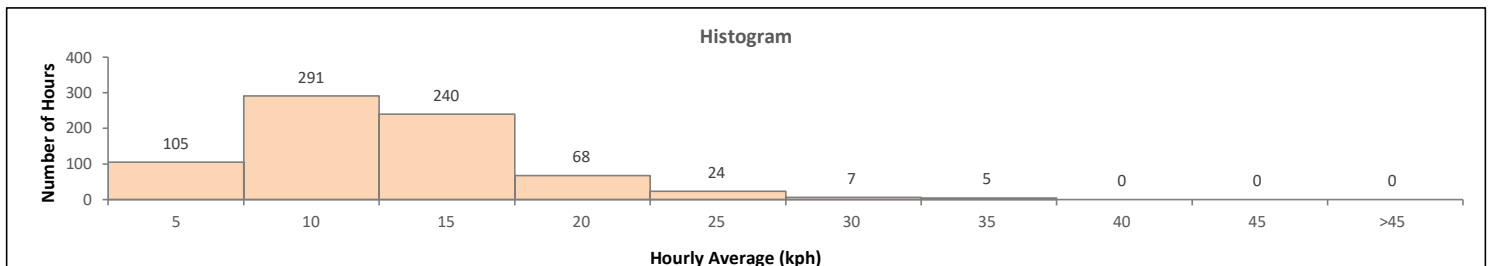
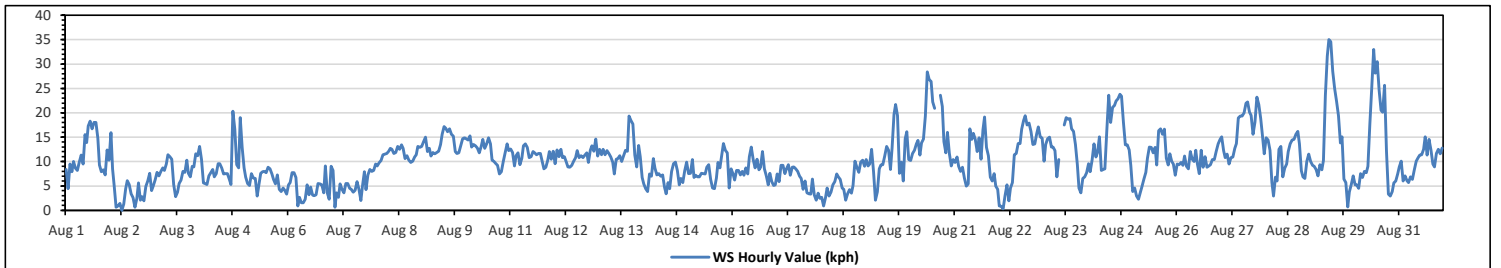
Maximum Hourly Value:	35.0	kph	on Aug 29 at hr 10	Hours in Service:	744
Maximum Daily Value:	16.5	kph	on Aug 20	Hours of Data:	740
Minimum Hourly Value:	0.0	kph	on Aug 2 at hr 6	Hours of Missing Data:	2
Minimum Daily Value:	4.1	kph	on Aug 2	Hours of Calibration:	2
Monthly Average:	2.1	kph		Operational Uptime:	99.7

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Aug 1	8.4	4.4	9.5	7.9	10.0	8.6	8.2	9.9	11.3	9.5	15.5	13.9	17.3	18.3	16.7	18.0	18.0	14.8	9.3	7.9	8.3	7.3	12.4	10.3	4.4	18.3	11.5
Aug 2	15.9	8.5	5.1	0.6	0.9	1.4	0.0	1.3	4.4	6.1	5.3	3.4	2.6	0.6	2.5	5.6	2.1	2.8	1.9	4.9	6.0	7.6	4.0	5.0	0.0	15.9	4.1
Aug 3	6.2	7.8	7.1	8.0	8.7	8.2	9.5	11.4	11.0	10.5	5.3	2.8	3.7	5.5	6.2	8.0	7.8	10.3	7.6	6.9	9.0	8.9	11.6	11.2	2.8	11.6	8.1
Aug 4	13.1	10.4	5.6	5.5	5.3	7.1	7.7	8.4	6.9	7.5	9.6	9.6	8.7	7.4	7.5	7.5	6.3	5.3	20.3	16.6	9.4	8.7	19.0	12.9	5.3	20.3	9.4
Aug 5	8.7	6.8	5.5	5.1	7.5	6.6	6.5	2.9	5.1	7.6	7.9	8.0	7.7	8.8	8.5	7.4	6.3	5.4	7.3	4.3	3.9	4.6	4.1	3.3	2.9	8.8	6.2
Aug 6	5.2	5.7	7.7	7.7	6.7	0.9	2.7	1.6	1.6	2.3	5.2	3.2	4.8	3.1	3.0	3.2	5.5	5.4	5.2	3.6	9.1	3.6	2.3	9.0	0.9	9.1	4.5
Aug 7	8.2	0.6	3.6	2.7	5.4	4.3	3.6	5.5	5.5	4.5	4.3	3.7	4.1	5.9	4.3	2.0	5.0	7.9	4.2	7.3	8.4	8.0	8.2	9.5	0.6	9.5	5.3
Aug 8	9.1	9.7	10.2	11.4	11.5	11.7	12.1	12.7	12.5	11.7	11.9	13.1	12.5	13.4	12.7	10.6	11.2	10.3	9.8	10.1	10.9	11.4	13.1	12.9	9.1	13.4	11.5
Aug 9	13.1	14.1	15.0	12.0	12.7	11.1	11.9	11.6	11.9	12.1	13.5	15.6	17.2	16.8	16.1	16.7	15.6	15.2	12.0	11.7	11.8	13.2	14.7	14.9	11.1	17.2	13.8
Aug 10	14.7	14.4	15.3	13.0	13.5	13.2	12.8	11.8	13.1	14.5	12.7	13.6	14.9	13.6	10.3	10.0	9.6	9.2	7.4	7.9	10.0	11.9	13.6	12.2	7.4	15.3	12.2
Aug 11	12.6	11.9	9.1	11.2	11.8	9.4	10.7	13.2	13.6	12.9	10.8	11.0	12.0	11.8	11.4	11.7	11.7	10.2	8.5	8.8	10.3	12.0	10.5	12.1	8.5	13.6	11.2
Aug 12	9.6	12.4	11.0	12.5	10.8	11.0	9.9	8.9	8.8	9.2	10.1	10.8	12.2	10.8	11.2	10.8	11.3	11.8	9.8	12.3	13.2	12.1	14.6	11.1	8.8	14.6	11.1
Aug 13	12.5	11.4	12.5	11.4	12.2	11.7	10.9	9.9	7.4	10.5	10.6	11.2	10.0	11.2	12.3	12.1	19.3	18.4	17.7	11.3	8.9	13.3	11.0	6.7	6.7	19.3	11.9
Aug 14	5.4	4.4	3.9	7.4	7.0	10.6	8.6	7.3	7.5	7.0	7.3	4.7	3.4	5.7	4.4	8.0	9.6	9.9	8.2	5.2	6.5	5.7	8.1	9.9	3.4	10.6	6.9
Aug 15	7.5	7.6	10.4	6.7	7.2	6.9	6.9	7.6	7.5	7.4	8.8	9.4	6.3	4.6	4.4	6.6	9.8	8.7	11.0	13.7	12.3	11.8	4.6	8.5	4.4	13.7	8.2
Aug 16	7.4	6.2	8.2	8.2	7.3	8.0	7.2	8.7	7.4	11.0	13.0	10.4	8.7	10.5	8.3	8.8	12.0	8.5	7.1	5.2	7.6	5.9	5.1	5.2	5.1	13.0	8.2
Aug 17	7.4	5.9	9.2	9.2	7.5	8.5	9.4	7.2	8.8	8.9	8.5	8.0	7.0	6.5	4.3	6.0	3.6	3.4	3.3	6.4	3.1	2.1	3.5	2.5	2.1	9.4	6.3
Aug 18	2.7	0.9	2.6	4.6	2.9	3.7	5.2	5.9	7.4	6.9	6.3	4.6	4.3	2.1	3.4	4.2	3.5	5.1	10.1	8.8	7.8	9.9	10.3	9.0	0.9	10.3	5.5
Aug 19	10.4	9.1	9.5	12.5	8.0	2.1	3.8	8.5	9.3	9.4	11.1	13.1	12.3	8.4	12.8	19.7	21.7	19.4	7.6	9.9	6.0	14.7	16.1	10.4	2.1	21.7	11.1
Aug 20	10.2	11.7	12.3	13.6	14.3	11.3	13.8	14.6	19.3	28.4	26.8	26.4	22.2	20.9	P	P	23.6	21.3	14.1	11.8	16.0	11.7	9.1	10.4	9.1	28.4	16.5
Aug 21	9.8	10.9	9.0	8.0	8.8	6.6	5.0	5.4	16.7	14.5	15.8	14.5	12.0	14.9	10.5	16.5	19.1	12.9	11.2	6.8	6.0	7.5	5.0	4.3	4.3	19.1	10.5
Aug 22	0.9	0.8	0.3	3.0	5.2	1.9	4.6	5.7	11.4	11.7	13.7	13.7	16.6	18.4	19.4	17.5	17.9	16.2	13.5	13.6	15.7	17.1	15.1	14.8	0.3	19.4	11.2
Aug 23	10.1	13.5	14.7	15.0	13.0	13.0	12.2	6.9	10.4	C	C	17.5	19.0	18.7	18.8	16.7	16.2	13.5	9.4	4.6	3.6	6.5	6.9	7.7	3.6	19.0	12.2
Aug 24	9.6	7.9	10.3	13.6	10.9	11.9	15.1	8.2	8.4	8.5	16.3	23.6	18.0	21.1	21.5	22.4	22.9	23.8	23.4	18.0	13.4	13.4	12.4	9.2	7.9	23.8	15.2
Aug 25	3.9	4.6	2.9	2.3	3.7	4.9	6.4	7.8	10.7	13.0	12.9	11.8	12.9	9.3	16.3	16.7	15.6	16.6	10.7	9.3	11.6	10.0	9.5	7.2	2.3	16.7	9.6
Aug 26	9.5	9.4	9.8	9.2	11.1	9.0	8.5	12.0	10.5	10.0	12.3	9.6	7.5	12.3	8.8	11.0	8.8	9.1	9.4	10.4	10.4	12.1	13.6	14.5	7.5	14.5	10.4
Aug 27	15.1	12.2	10.8	11.5	9.5	10.8	10.9	12.7	13.7	18.9	19.3	19.3	20.0	22.0	22.2	20.1	19.5	15.6	18.1	23.2	21.7	18.8	15.6	11.6	9.5	23.2	16.4
Aug 28	14.9	14.4	12.3	5.7	2.9	6.8	6.0	12.5	13.1	6.9	8.6	9.5	12.0	13.6	14.4	14.5	15.6	16.2	13.6	8.1	6.9	6.5	10.0	11.5	2.9	16.2	10.7
Aug 29	10.0	9.2	9.0	8.4	7.1	9.4	8.3	10.2	23.5	31.6	35.0	34.6	28.5	25.0	22.3	19.4	13.8	15.1	6.4	5.7	0.7	3.8	5.3	7.1	0.7	35.0	14.6
Aug 30	5.2	5.2	4.5	7.5	6.7	8.0	7.7	9.0	17.6	25.2	33.0	28.1	30.5	24.6	20.5	20.1	25.6	12.1	3.3	2.9	3.9	5.6	6.0	7.4	2.9	33.0	13.3
Aug 31	8.9	10.1	6.0	7.1	6.1	5.7	6.9	6.3	8.3	10.1	10.8	11.3	11.4	12.5	15.1	11.3	14.5	12.4	9.5	8.9	11.7	12.5	11.6	12.8	5.7	15.1	10.1
Diurnal Maximum	15.9	14.4	15.3	15.0	14.3	13.2	15.1	14.6	23.5	31.6	35.0	34.6	30.5	25.0	22.3	22.4	25.6	23.8	23.4	23.2	21.7	18.8	19.0	14.9			
Diurnal Average	9.2	8.5	8.5	8.5	8.3	7.9	8.2	8.6	10.5	11.6	12.7	12.6	12.3	12.2	11.7	12.1	13.0	11.8	10.0	9.2	9.2	9.6	9.9	9.5			

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

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

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

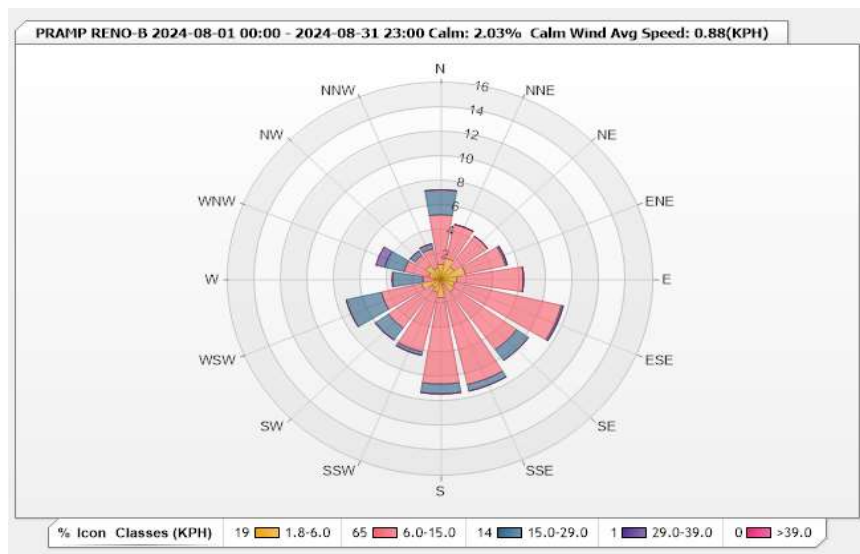


Station: PRAMP RENO-B Monitor: WDS [KPH] Monthly: 08-2024

Type: Wind Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm (WS<1.8kph): 2.03% Valid Data: 99.46%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.22	4.05	2.03	0	0	7.3
NNE	1.76	2.84	0	0	0	4.6
NE	1.22	3.11	0	0	0	4.33
ENE	1.89	3.11	0.14	0	0	5.14
E	1.22	5	0	0	0	6.22
ESE	1.08	8.24	0.14	0	0	9.46
SE	1.22	5.81	1.08	0	0	8.11
SSE	0.41	8.38	0.54	0	0	9.33
S	1.49	7.03	0.81	0	0	9.33
SSW	1.08	5	0.27	0	0	6.35
SW	0.81	4.05	1.22	0	0	6.08
WSW	1.49	3.11	2.7	0	0	7.3
W	0.41	0.95	2.3	0	0	3.66
WNW	0.95	1.89	1.49	0.68	0	5.01
NW	1.35	1.08	0.41	0	0	2.84
NNW	0.95	1.62	0.41	0	0	2.98
Summary	18.55	65.27	13.54	0.68	0	98.04



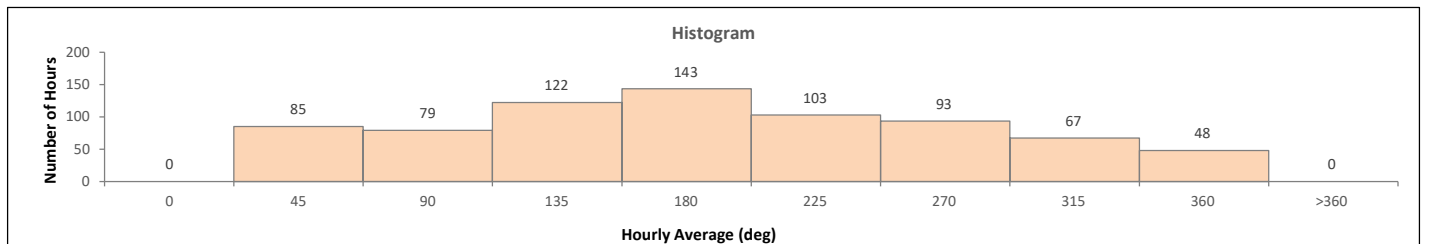
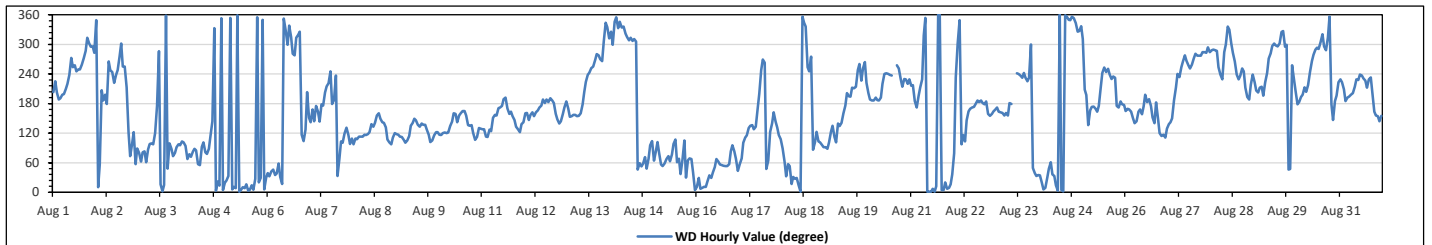
Peace River Area Monitoring Program

Reno-B Station - August 2024

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:											181 (S) degree											Hours in Service:											744																		
																						Hours of Data:											740																		
																						Hours of Missing Data:											2																		
																						Hours of Calibration:											2																		
																						Operational Uptime:											99.7																		
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																									
Aug 1	SSW	SW	SSW	S	S	SSW	SSW	SSW	SW	SW	W	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	NW	WNW	WNW	WNW	W	249	WSW																									
Aug 2	NNW	N	NE	SSW	S	SSW	S	W	WSW	WSW	SW	SW	WSW	W	WNW	WSW	WSW	SSW	ESE	ENE	E	ESE	ENE	E	342	NNW																									
Aug 3	E	ENE	E	E	ENE	E	E	E	E	ESE	S	WNW	NNE	N	NNE	N	NE	E	E	ENE	E	E	E	E	81	E																									
Aug 4	ESE	E	E	ENE	ENE	ENE	E	E	E	ENE	NE	E	E	E	ENE	E	ESE	SE	NNW	N	NNE	NNE	N	N	55	NE																									
Aug 5	NNE	NNE	NNE	N	N	NNE	N	N	N	N	N	NNE	N	N	NNE	N	NNE	N	NNE	N	NNE	N	N	NNE	10	N																									
Aug 6	NE	NNE	NE	NE	NE	NE	ENE	NNE	NNE	N	NNW	WNW	NNW	NW	W	W	NW	NW	NW	ESE	ESE	SE	SSW	SSE	22	NNE																									
Aug 7	SE	SSE	SE	S	SSE	SE	S	SSW	SSW	SW	WSW	S	S	SW	NNE	ENE	ESE	E	ESE	SE	ESE	E	ESE	ESE	144	SE																									
Aug 8	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SSE	SSE	SSE	SE	SE	ESE	E	E	ESE	ESE	ESE	124	ESE																									
Aug 9	ESE	ESE	ESE	ESE	ESE	E	ESE	ESE	SE	SE	SSE	SE	SE	SE	SE	SE	SE	ESE	E	ESE	ESE	ESE	ESE	ESE	124	ESE																									
Aug 10	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SE	SE	ESE	ESE	ESE	ESE	SE	SE	136	SE																									
Aug 11	SE	SE	ESE	ESE	ESE	SE	ESE	SSE	SSE	SSE	S	S	S	S	SSE	SSE	SSE	SSE	SE	SE	SE	ESE	SE	SE	149	SSE																									
Aug 12	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	SSE	SE	SE	SE	SSE	S	S	167	SSE																										
Aug 13	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSW	SW	SW	WSW	WSW	WSW	W	W	W	W	NW	NNW	NNW	NW	232	SW																										
Aug 14	NW	WNW	NNW	N	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NE	ENE	NE	ENE	ENE	NE	ENE	E	ESE	6	N																									
Aug 15	ENE	E	E	E	NE	NE	ENE	ENE	ENE	ENE	ENE	E	ESE	ENE	NE	ENE	ESE	NNE	ENE	ENE	ENE	NE	N	67	ENE																										
Aug 16	NNE	NNE	N	N	NNE	NNE	NNE	NE	NNE	NE	NE	ENE	ENE	NE	NE	NE	NE	NE	ENE	E	E	E	ENE	NE	45	NE																									
Aug 17	ENE	ENE	E	ESE	ESE	SE	SE	SE	SE	SE	SSE	SSW	WSW	W	W	NE	ENE	ESE	SE	SSE	SE	SE	ESE	ESE	130	SE																									
Aug 18	E	ENE	NNE	ENE	NE	NNE	NNE	NNE	NNE	NNE	N	N	NNW	NNW	WSW	WSW	W	E	E	ESE	ESE	E	E	E	62	ENE																									
Aug 19	E	E	E	ESE	SE	ESE	E	SE	SE	SE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	189	S																									
Aug 20	SSW	S	S	S	S	S	S	S	SW	WSW	WSW	WSW	SW	SW	P	P	WSW	WSW	SSW	SSW	SSW	SSW	SSW	SSW	224	SW																									
Aug 21	SW	SW	S	S	SSW	SSW	SW	NW	N	N	N	N	N	N	NNE	N	N	N	N	NNE	N	N	NNE	N	355	N																									
Aug 22	ENE	SW	WNW	NNW	E	ESE	ESE	SE	SSE	SSE	S	S	S	S	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	170	SSE																									
Aug 23	S	SSE	SSE	SSE	SSE	SSE	SSE	S	S	C	C	WSW	WSW	WSW	SW	SW	WSW	SW	SW	WNW	NE	NE	NNE	NE	203	SSW																									
Aug 24	NE	NNE	N	N	NNE	NE	ENE	NE	NNE	NNE	N	N	N	N	N	N	N	NNW	N	NNW	NW	NW	NNW	3	N																										
Aug 25	NW	SSW	SSW	SE	SSE	S	S	SSE	SSE	S	SSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	S	S	S	S	S	210	SSW																									
Aug 26	SSE	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	SSE	S	SSW	S	S	S	SSE	SE	S	SSE	ESE	ESE	ESE	ESE	SE	154	SSE																									
Aug 27	SE	SE	SSE	S	SSW	WSW	SW	WSW	W	W	W	WSW	WSW	WSW	W	W	W	W	W	WNW	WNW	W	WNW	WNW	262	W																									
Aug 28	WNW	WNW	WNW	WNW	WSW	WSW	SW	WNW	WNW	NNW	NNW	NNW	W	W	WSW	SW	SW	WSW	WSW	SSW	S	S	SW	WSW	261	W																									
Aug 29	SW	SSW	SSW	SSW	SSW	SSW	SW	WSW	W	W	WNW	WNW	WNW	WNW	WNW	NW	NW	WNW	WNW	NE	NE	WSW	SW	SSW	281	W																									
Aug 30	S	S	S	SSW	SSW	SSW	SW	WSW	W	W	WNW	WNW	WNW	WNW	NW	NNW	NNW	NW	N	S	SE	S	SSW	SW	276	W																									
Aug 31	SW	SW	SSW	S	S	SSW	SSW	SSW	SW	SW	SW	WSW	SW	SW	SW	SSW	SW	SW	SSW	SSE	SSE	SSE	SE	SSE	206	SSW																									
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance																												
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance																												
X	Invalid Data (Machine Malfunction/Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure																												
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																																			
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																																			



Peace River Area Monitoring Program

Reno-B Station - August 2024

Summary of Hourly Averages

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

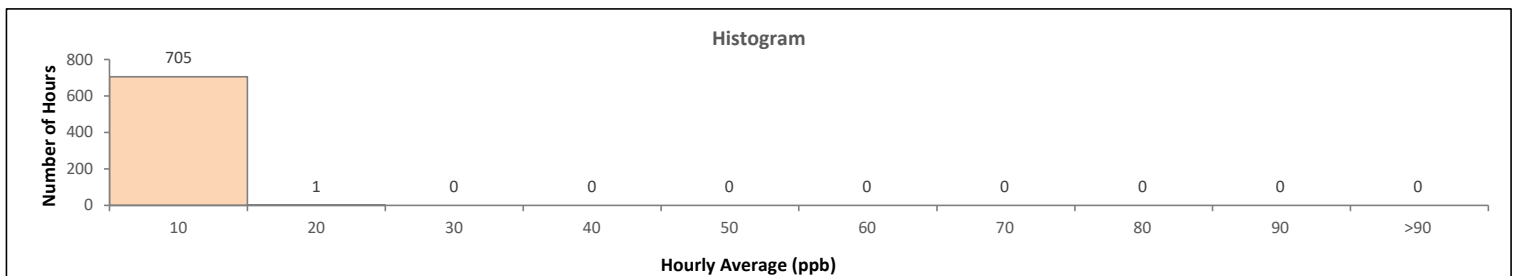
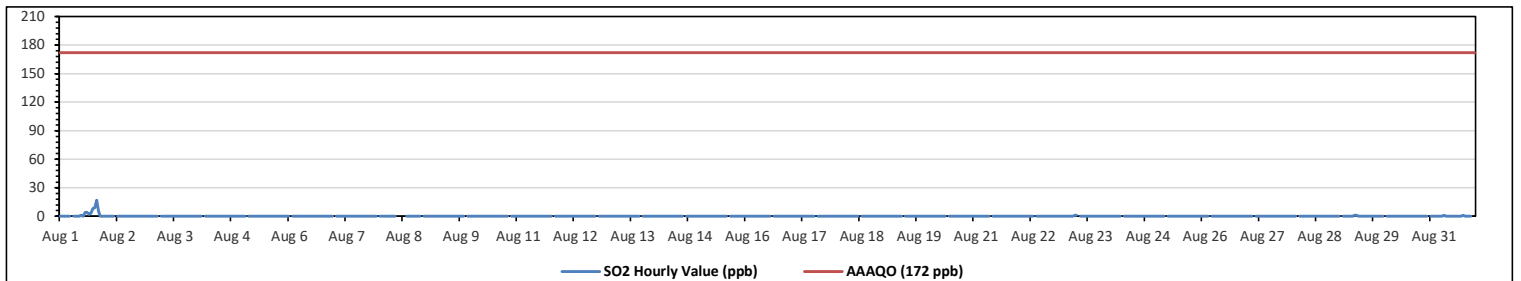
WIND SPEED																																																	
Maximum Hourly Value:		35.0	kph	on Aug 29 at hr 10										Hours in Service:		744																																	
Maximum Daily Value:		16.5	kph	on Aug 20										Hours of Data:		740																																	
Minimum Hourly Value:		0.0	kph	on Aug 2 at hr 6										Hours of Missing Data:		2																																	
Minimum Daily Value:		4.1	kph	on Aug 2										Hours of Calibration:		2																																	
Monthly Average:		2.1	kph											Operational Uptime:		99.7																																	
WIND DIRECTION																																																	
Monthly Average:		181 degree (S)																																															
Day	Hourly Period Starting at (MST)																									Daily Minimum	Daily Maximum	Daily Average																					
Aug 1	8.4	4.4	9.5	7.9	10.0	8.6	8.2	9.9	11.3	9.5	15.5	13.9	17.3	18.3	16.7	18.0	18.0	14.8	9.3	7.9	8.3	7.3	12.4	10.3	4.4	18.3	11.5																						
	SSW	SW	SSW	S	S	SSW	SSW	SSW	SW	SW	W	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	NW	WNW	WNW	WNW	W																									
Aug 2	15.9	8.5	5.1	0.6	0.9	1.4	0.0	1.3	4.4	6.1	5.3	3.4	2.6	0.6	2.5	5.6	2.1	2.8	1.9	4.9	6.0	7.6	4.0	5.0	0.0	15.9	4.1																						
	NNW	N	NE	SSW	S	SSW	S	W	WSW	WSW	SW	SW	WSW	W	WNW	WSW	WSW	SSW	ESE	ENE	E	ESE	ENE	E																									
Aug 3	6.2	7.8	7.1	8.0	8.7	8.2	9.5	11.4	11.0	10.5	5.3	2.8	3.7	5.5	6.2	8.0	7.8	10.3	7.6	6.9	9.0	8.9	11.6	11.2	2.8	11.6	8.1																						
	E	ENE	E	E	ENE	E	E	E	ESE	S	WNW	NNE	N	NNE	N	NE	E	E	ENE	E	E	E	E	E																									
Aug 4	13.1	10.4	5.6	5.5	5.3	7.1	7.7	8.4	6.9	7.5	9.6	9.6	8.7	7.4	7.5	7.5	6.3	5.3	20.3	16.6	9.4	8.7	19.0	12.9	5.3	20.3	9.4																						
	ESE	E	E	ENE	ENE	ENE	E	E	E	ENE	NE	E	E	E	ENE	E	ESE	SE	NNW	N	NNE	NNE	N	N																									
Aug 5	8.7	6.8	5.5	5.1	7.5	6.6	6.5	2.9	5.1	7.6	7.9	8.0	7.7	8.8	8.5	7.4	6.3	5.4	7.3	4.3	3.9	4.6	4.1	3.3	2.9	8.8	6.2																						
	NNE	NNE	NNE	N	N	NNE	N	N	N	N	N	N	NNE	N	N	NNE	N	NNE	N	NNE	NNE	N	N	NNE																									
Aug 6	5.2	5.7	7.7	7.7	6.7	0.9	2.7	1.6	1.6	2.3	5.2	3.2	4.8	3.1	3.0	3.2	5.5	5.4	5.2	3.6	9.1	3.6	2.3	9.0	0.9	9.1	4.5																						
	NE	NNE	NE	NE	NE	NE	ENE	NNE	NNE	N	NNW	NNW	NNW	NW	W	NW	NW	NW	ESE	ESE	SE	SSW	SSE																										
Aug 7	8.2	0.6	3.6	2.7	5.4	4.3	3.6	5.5	5.5	4.5	4.3	3.7	4.1	5.9	4.3	2.0	5.0	7.9	4.2	7.3	8.4	8.0	8.2	9.5	0.6	9.5	5.3																						
	SE	SSE	SE	S	SSE	SE	S	S	SSW	SSW	SW	WSW	S	S	SW	NNE	ENE	ESE	E	ESE	SE	ESE	E	ESE																									
Aug 8	9.1	9.7	10.2	11.4	11.5	11.7	12.1	12.7	12.5	11.7	11.9	13.1	12.5	13.4	12.7	10.6	11.2	10.3	9.8	10.1	10.9	11.4	13.1	12.9	9.1	13.4	11.5																						
	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SSE	SSE	SSE	SE	SE	ESE	E	E	ESE	ESE																										
Aug 9	13.1	14.1	15.0	12.0	12.7	11.1	11.9	11.6	11.9	12.1	13.5	15.6	17.2	16.8	16.1	16.7	15.6	15.2	12.0	11.7	11.8	13.2	14.7	14.9	11.1	17.2	13.8																						
	ESE	ESE	ESE	ESE	ESE	E	ESE	ESE	SE	SE	SSE	SE	SE	SE	SE	SE	SE	SE	ESE	E	ESE	ESE	ESE																										
Aug 10	14.7	14.4	15.3	13.0	13.5	13.2	12.8	11.8	13.1	14.5	12.7	13.6	14.9	13.6	10.3	10.0	9.6	9.2	7.4	7.9	10.0	11.9	13.6	12.2	7.4	15.3	12.2																						
	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	ESE	ESE	ESE	SE	SE																									
Aug 11	12.6	11.9	9.1	11.2	11.8	9.4	10.7	13.2	13.6	12.9	10.8	11.0	12.0	11.8	11.4	11.7	11.7	10.2	8.5	8.8	10.3	12.0	10.5	12.1	8.5	13.6	11.2																						
	SE	SE	ESE	ESE	SE	ESE	SSE	SSE	SSE	S	S	S	S	S	SSE	SSE	SSE	SSE	SE	SE	ESE	SE	SE																										
Aug 12	9.6	12.4	11.0	12.5	10.8	11.0	9.9	8.9	8.8	9.2	10.1	10.8	12.2	10.8	11.2	10.8	11.3	11.8	9.8	12.3	13.2	12.1	14.6	11.1	8.8	14.6	11.1																						
	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	SSE	SE	SE	SE	SE	SSE	S	S																									
Aug 13	12.5	11.4	12.5	11.4	12.2	11.7	10.9	9.9	7.4	10.5	10.6	11.2	10.0	11.2	12.3	12.1	19.3	18.4	17.7	11.3	8.9	13.3	11.0	6.7	6.7	19.3	11.9																						
	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSW	SW	WSW	WSW	WSW	WSW	W	W	W	W	W	NW	NNW	NNW	NW																									
Aug 14	5.4	4.4	3.9	7.4	7.0	10.6	8.6	7.3	7.5	7.0	7.3	4.7	3.4	5.7	4.4	8.0	9.6	9.9	8.2	5.2	6.5	5.7	8.1	9.9	3.4	10.6	6.9																						
	NW	WNW	NNW	N	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NE	ENE	NE	ENE	ENE	NE	ENE	E	ESE																									
Aug 15	7.5	7.6	10.4	6.7	7.2	6.9	6.9	7.6	7.5	7.4	8.8	9.4	6.3	4.6	4.4	6.6	9.8	8.7	11.0	13.7	12.3	11.8	4.6	8.5	4.4	13.7	8.2																						
	ENE	E	E	E	NE	NE	ENE	ENE	ENE	ENE	E	ESE	ENE	ENE	ENE	ENE	ENE	ENE	NNE	ENE	ENE	ENE	NE	N																									
Aug 16	7.4	6.2	8.2	8.2	7.3	8.0	7.2	8.7	7.4	11.0	13.0	10.4	8.7	10.5	8.3	8.8	12.0	8.5	7.1	5.2	7.6	5.9	5.1	5.2	5.1	13.0	8.2																						
	NNE	NNE	N	N	NNE	NNE	NE	NNE	NE	NE	NE	ENE	ENE	NE	NE	NE	NE	NE	ENE	E	E	E	ENE	NE																									
Aug 17	7.4	5.9	9.2	9.2	7.5	8.5	9.4	7.2	8.8	8.9	8.5	8.0	7.0	6.5	4.3	6.0	3.6	3.4	3.3	6.4	3.1	2.1	3.5	2.5	2.1	9.4	6.3																						
	ENE	ENE	E	ESE	ESE	SE	SE	SE	SE	SE	SSE	SSW	WSW	W	W	NE	ENE	ESE	SE	SSE	SE	SE	ESE	ESE																									
Aug 18	2.7	0.9	2.6	4.6	2.9	3.7	5.2	5.9	7.4	6.9	6.3	4.6	4.3	2.1	3.4	4.2	3.5	5.1	10.1	8.8	7.8	9.9	10.3	9.0	0.9	10.3	5.5																						
	E	ENE	NNE	ENE	NE	NNE	NNE	NNE	NNE	N	N	NNW	NNW	WSW	WSW	W	E	E	ESE	ESE	E	E	E																										
Aug 19	10.4	9.1	9.5	12.5	8.0	2.1	3.8	8.5	9.3	9.4	11.1	13.1	12.3	8.4	12.8	19.7	21.7	19.4	7.6	9.9	6.0	14.7	16.1	10.4	2.1	21.7	11.1																						
	E	E	E	ESE	SE	ESE	E	SE	SE	SE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	WSW	WSW	WSW	WSW	WSW	WSW																									
Aug 20	10.2	11.7	12.3	13.6	14.3	11.3	13.8	14.6	19.3	28.4	26.8	26.4	22.2	20.9	P	P	P	23.6	21.3	14.1	11.8	16.0	11.7	9.1	9.1	28.4	16.5																						
	SSW	S	S	S	S	S	S	S	SW	WSW	WSW	WSW	SW	SW	P	P	P	WSW	WSW	SW	SSW	SW	SW	SW	SW																								
Aug 21	9.8	10.9	9.0	8.0	8.8	6.6	5.0	5.4	16.7	14.5	15.8	14.5	12.0	14.9	10.5	16.5	19.1	12.9	11.2	6.8	6.0	7.5	5.0	4.3	4.3	19.1	10.5																						
	SW	SW	S	S	SSW	SSW	SW	NW	N	N	N	N	N	N	NNE	N	N	N	NNE	N	N	NNE	NE	NE																									
Aug 22	0.9	0.8	0.3	3.0	5.2	1.9	4.6	5.7	11.4	11.7	13.7	13.7	16.6	18.4	19.4	17.5	17.9	16.2	13.5	13.6	15.7	17.1	15.1	14.8	0.3	19.4	11.2																						
	ENE	SW	WNW	NNW	E	ESE	ESE	SE	SSE	SSE	S	S	S	S	S	S	S	S	SSE	SSE	SSE	SSE	SSE																										
Aug 23	10.1	13.5	14.7	15.0	13.0	13.0	12.2	6.9	10.4		C	C	17.5	19.0	18.7	18.8	16.7	16.2	13.5	9.4	4.6	3.6	6.5	6.9	7.7	3.6	19.0	12.2																					
	S	SSE	SSE	SSE	SSE	SSE	SSE	S	S		C	C	WSW	WSW	SW	SW	WSW	SW	SW	SW	WNW	NE	NE	NNE	NE																								
Aug 24	9.6	7.9	10.3	13.6	10.9	11.9	15.1	8.2	8.4	8.5	16.3	23.6	18.0	21.1	21.5	22.4	22.9	23.8	23.4	18.0	13.4	13.4	12.4	9.2	7.9	23.8	15.2																						
	NE	NNE	N	N	NNE	NE	ENE	NE	NNE	NNE	N	N	N	N	N	N	N	NNW	N	N	NNW	NW	NW	NNW																									
Aug 25	3.9	4.6	2.9	2.3	3.7	4.9	6.4	7.8	10.7	13.0	12.9	11.8	12.9	9.3	16.3	16.7	15.6	16.6	10.7	9.3	11.6	10.0	9.5	7.2	2.3	16.7	9.6																						
	NW	SSW	SSW	SE	SSE	S	SSE	SSE	S	SSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	S	S	S	S																									
Aug 26	9.5	9.4	9.8	9.2	11.1	9.0	8.5	12.0	10.5	10.0	12.3	9.6	7.5	12.3	8.8	11.0	8.8	9.1	9.4	10.4	10.4	12.1	13.6	14.5	7.5	14.5	10.4																						
	SSE	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	SSE	S	SSW	S	S	S	SSE	SE	S	SSE	ESE	ESE	ESE	ESE	SE																									
Aug 27	15.1	12.2	10.8	11.5	9.5	10.8	10.9	12.7	13.7	18.9	19.3	20.0	22.0	22.2	20.1	19.5	15.6	18.1	23.2	21.7	18.8	15.6	11.6		9.5	23.2	16.4																						
	SE	SE	SSE	S	SSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	W	W	W	W	W	WNW	WNW	W	WNW	WNW																										
Aug 28	14.9	14.4	12.3	5.7	2.9	6.8	6.0	12.5	13.1	6.9	8.6	9.5	12.0	13.6	14.4	14.5	15.6	16.2	13.6	8.1	6.9	6.5	10.0	11.5	2.9	16.2	10.7																						
	WNW	WNW	WNW	WNW	WSW	WSW	SW	WNW	WNW	NNW	NNW	WNW	W	W	WSW	SW	WSW	WSW	WSW	SSW	S	S	SW	WSW																									
Aug 29	10.0	9.2	9.0	8.4	7.1	9.4	8.3	10.2	23.5	31.6	35.0	34.6	28.5	25.0	22.3	19.4	13.8	15.1	6.4	5.7	0.7	3.8	5.3	7.1	0.7	35.0	14.6.																						

PRC STATION

Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages
SULPHUR DIOXIDE (SO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb																												
Number of 1-Hour Exceedances:				0 <th colspan="4">Number of 24-Hour Exceedances:</th> <td colspan="4">0<th colspan="4">30-Day Exceedence:</th><td colspan="5">0</td></td>				Number of 24-Hour Exceedances:				0 <th colspan="4">30-Day Exceedence:</th> <td colspan="5">0</td>				30-Day Exceedence:				0								
Maximum Hourly Value:				17 ppb on Aug 1 at hr 19				Hours in Service:				744				Hours of Data:				706								
Maximum Daily Value:				2.3 ppb on Aug 1				Hours of Missing Data:				0				Hours of Calibration:				38								
Minimum Hourly Value:				0 ppb on Aug 1 at hr 0				Operational Uptime:				100.0																
Minimum Daily Value:				0.0 ppb on Aug 2																								
Monthly Average:				0.1 ppb																								
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				
Aug 1	0	0	0	0	0	0	S	0	0	0	0	1	0	4	4	2	3	8	9	17	5	0	0	0	0	0	17	2.3
Aug 2	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 3	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 4	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 5	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 6	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 7	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	S	0	0.0
Aug 8	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	S	0	0	0	0	0.0
Aug 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0.0
Aug 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Aug 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0.0
Aug 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0.0
Aug 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0.0
Aug 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0.0
Aug 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 17	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 18	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 19	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 20	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 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
Aug 22	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 23	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	0	1	0.1
Aug 24	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 25	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 26	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 27	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 28	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Aug 29	0	S	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Aug 30	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
Aug 31	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	0	0	1	0.1	
Diurnal Maximum	0	0	0	0	0	1	1	1	1	1	0	1	0	4	4	2	3	8	9	17	5	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	0.1	0.1	0.1	0.1	0.3	0.3	0.6	0.2	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						ND	No Data (Machine Not in Service)						Y	Routine Maintenance						P	Power Failure						
X	Invalid Data (Equipment Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																				
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

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

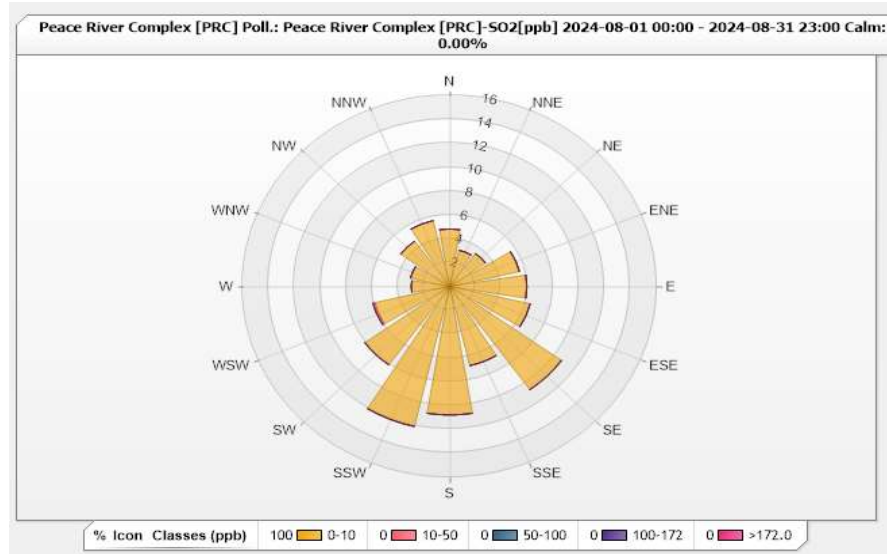


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

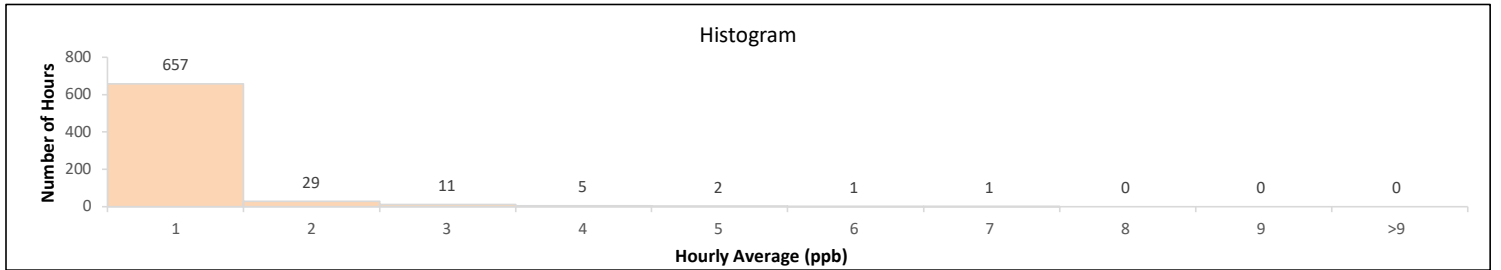
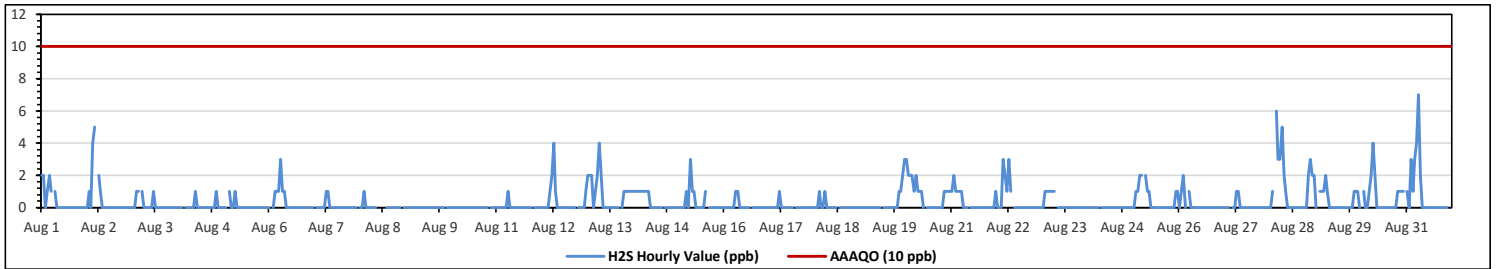
Calm: 0.00% Valid Data: 94.89% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	4.82	0	0	0	0	4.82
NNE	3.12	0	0	0	0	3.12
NE	3.4	0	0	0	0	3.4
ENE	5.52	0	0	0	0	5.52
E	5.95	0	0	0	0	5.95
ESE	6.37	0	0	0	0	6.37
SE	10.62	0	0	0	0	10.62
SSE	6.8	0	0	0	0	6.8
S	10.76	0	0	0	0	10.76
SSW	12.04	0	0	0	0	12.04
SW	8.07	0	0	0	0	8.07
WSW	5.95	0.14	0	0	0	6.09
W	2.97	0	0	0	0	2.97
WNW	3.12	0	0	0	0	3.12
NW	4.67	0	0	0	0	4.67
NNW	5.67	0	0	0	0	5.67
Summary	100	0.14	0	0	0	100



Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages
HYDROGEN SULPHIDE (H₂S) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 10 ppb, 24-Hour 3 ppb																													
Number of 1-Hour Exceedances:										Number of 24-Hour Exceedances:																			
Maximum Hourly Value:										Maximum Daily Value:										Minimum Hourly Value:									
7 ppb on Aug 31 at hr 6										1.0 ppb on Aug 2										0 ppb on Aug 1 at hr 2									
Minimum Daily Value:										0.0 ppb on Aug 1										Hours in Service:									
Monthly Average:										0.3 ppb										Hours of Data:									
																				Hours of Missing Data:									
																				Hours of Calibration:									
																				Operational Uptime:									
																				744									
																				706									
																				0									
																				38									
																				100.0									
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average		
Aug 1	2	2	0	1	2	1	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.0		
Aug 2	0	1	0	4	5	S	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1.0			
Aug 3	0	0	1	1	S	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0		
Aug 4	0	0	0	S	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.0		
Aug 5	0	0	S	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0		
Aug 6	0	S	0	1	1	1	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.0		
Aug 7	S	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	0.0		
Aug 8	0	0	1	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	S	0	0	1	0.0		
Aug 9	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		
Aug 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0.0		
Aug 11	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	1	0.0		
Aug 12	0	0	0	0	1	2	4	1	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0	4	0.0		
Aug 13	2	2	2	0	1	2	4	2	0	0	0	0	0	0	0	0	0	S	0	1	1	1	1	1	0	4	1.0		
Aug 14	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.0		
Aug 15	0	0	0	0	1	0	3	1	1	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	0	3	0.0		
Aug 16	0	0	0	0	0	0	1	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0.0		
Aug 17	0	0	0	0	0	1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0.0		
Aug 18	0	0	1	0	0	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0		
Aug 19	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	1	2	3	0	3	0.0		
Aug 20	3	2	2	2	1	2	1	1	1	0	S	0	0	0	0	0	0	0	0	0	1	1	1	1	0	3	1.0		
Aug 21	1	2	1	1	1	1	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0.0		
Aug 22	0	0	0	3	2	1	3	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.0		
Aug 23	0	1	1	1	1	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0		
Aug 24	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		
Aug 25	0	1	1	2	2	S	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	1.0		
Aug 26	0	1	2	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.0		
Aug 27	0	0	0	S	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0		
Aug 28	0	1	S	6	3	3	5	2	1	0	0	0	0	0	0	0	0	0	0	0	2	3	2	2	0	6	1.0		
Aug 29	0	S	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	2	0.0		
Aug 30	S	1	0	0	1	2	4	2	0	0	0	0	0	0	0	0	0	0	0	1	1	1	S	4	0	4	1.0		
Aug 31	1	0	3	1	3	4	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	7	1.0		
Diurnal Maximum	3	2	3	6	5	4	7	2	1	1	0	1	0	0	1	0	0	0	0	1	2	3	3						
Diurnal Average	0.3	0.5	0.6	0.9	0.9	0.9	1.6	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.3	0.4					
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance						
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance						
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure						
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																													

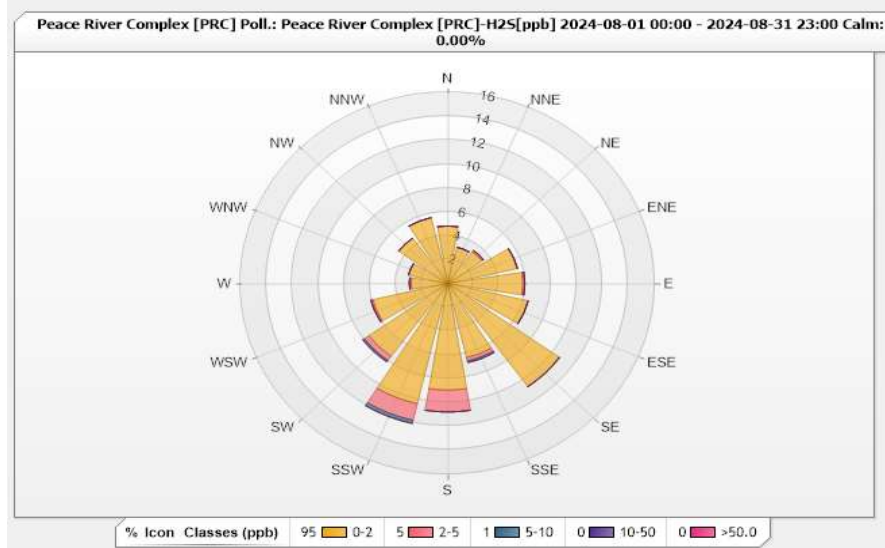


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-H2S[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	4.82	0	0	0	0	4.82
NNE	3.12	0	0	0	0	3.12
NE	3.26	0.14	0	0	0	3.4
ENE	5.52	0	0	0	0	5.52
E	5.81	0.14	0	0	0	5.95
ESE	6.37	0	0	0	0	6.37
SE	10.62	0	0	0	0	10.62
SSE	6.37	0.28	0.14	0	0	6.79
S	8.92	1.84	0	0	0	10.76
SSW	10.34	1.42	0.28	0	0	12.04
SW	7.51	0.42	0.14	0	0	8.07
WSW	5.95	0.14	0	0	0	6.09
W	2.83	0.14	0	0	0	2.97
WNW	3.12	0	0	0	0	3.12
NW	4.67	0	0	0	0	4.67
NNW	5.67	0	0	0	0	5.67
Summary	94.9	4.52	0.56	0	0	100



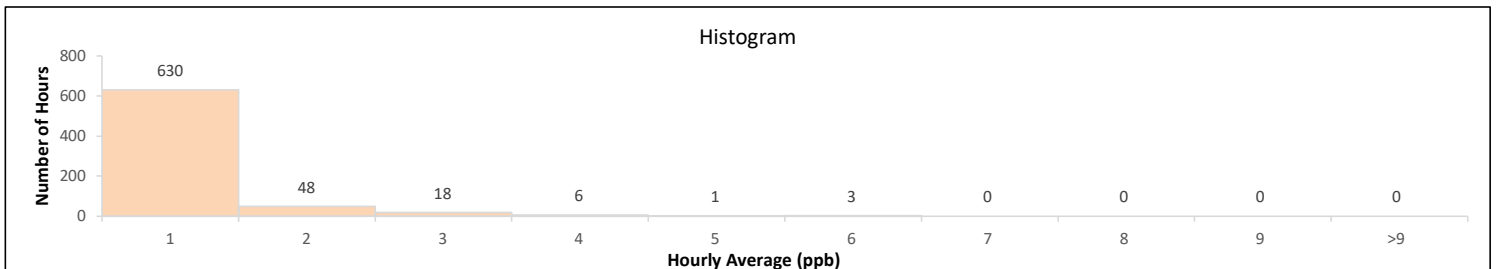
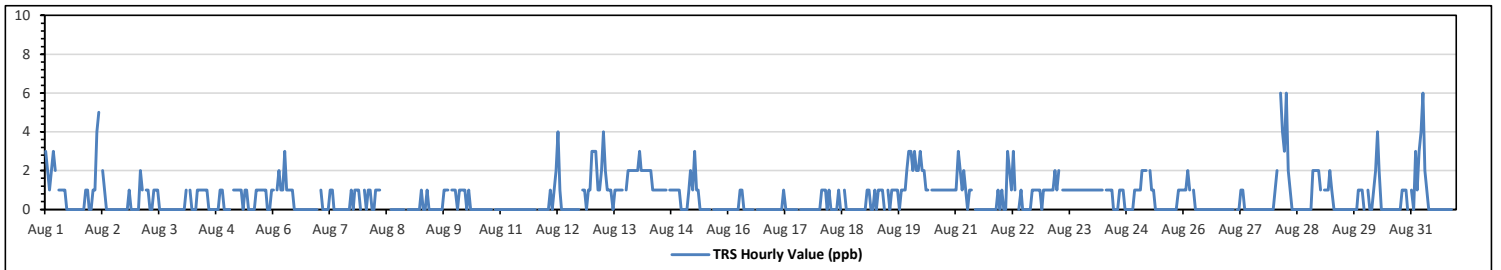
Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages
TOTAL REDUCED SULPHUR (TRS) in ppb

Maximum Hourly Value:	6	ppb	on Aug 28 at hr 3	Hours in Service:	744
Maximum Daily Value:	1.7	ppb	on Aug 13	Hours of Data:	706
Minimum Hourly Value:	0	ppb	on Aug 1 at hr 11	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on Aug 11	Hours of Calibration:	38
Monthly Average:	0.6	ppb		Operational Uptime:	100.0

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 1	3	2	1	2	3	2	S	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	3	0.8
Aug 2	0	1	1	4	5	S	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5	0.7
Aug 3	0	0	2	1	S	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3
Aug 4	0	0	1	S	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	1	0.4
Aug 5	0	0	S	1	1	1	1	1	0	1	1	0	0	0	0	1	1	1	1	1	1	0	0	1	0	1	0.6
Aug 6	1	S	1	2	1	1	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.6
Aug 7	S	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	S	0	1	0.3
Aug 8	1	0	1	1	0	0	1	1	1	C	C	C	C	C	0	0	0	0	0	0	0	0	S	0	0	1	0.3
Aug 9	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	1	S	1	1	0	1	0.3
Aug 10	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.3
Aug 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Aug 12	0	0	1	0	1	2	4	1	0	0	0	0	0	0	0	0	0	0	S	1	1	0	1	1	0	4	0.6
Aug 13	3	3	3	1	1	2	4	2	1	1	1	0	1	1	1	1	1	S	1	2	2	2	2	2	0	4	1.7
Aug 14	2	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	S	1	1	1	1	1	1	0	3	1.3	
Aug 15	0	0	0	1	2	1	3	1	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	3	0.4
Aug 16	0	0	0	0	0	0	1	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0.1
Aug 17	0	0	0	0	0	1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Aug 18	0	1	1	1	0	1	0	0	0	0	1	0	S	1	0	0	0	0	0	0	0	0	0	0	0	1	0.3
Aug 19	0	1	1	0	0	1	0	1	1	1	0	S	1	0	1	1	1	1	0	1	1	1	2	3	0	3	0.8
Aug 20	3	2	3	2	2	3	2	2	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1.5
Aug 21	1	3	2	1	2	1	0	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0.6
Aug 22	1	0	0	3	2	1	3	1	S	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	3	0.8
Aug 23	1	1	1	1	2	1	2	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.1
Aug 24	1	1	1	1	1	1	S	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	1	1	0	1	0.7
Aug 25	1	1	2	2	2	S	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	2	0.7
Aug 26	1	1	2	1	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3
Aug 27	0	0	0	S	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Aug 28	1	2	S	6	4	3	6	2	1	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	0	6	1.4
Aug 29	1	S	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	2	0.4
Aug 30	S	1	0	0	1	2	4	2	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	S	0	4	0.6
Aug 31	1	0	3	1	3	4	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	6	1.0
Diurnal Maximum	3	3	3	6	5	4	6	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3			
Diurnal Average	0.8	0.8	1.1	1.2	1.3	1.2	1.8	0.9	0.5	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.5	0.6	0.6			

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

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

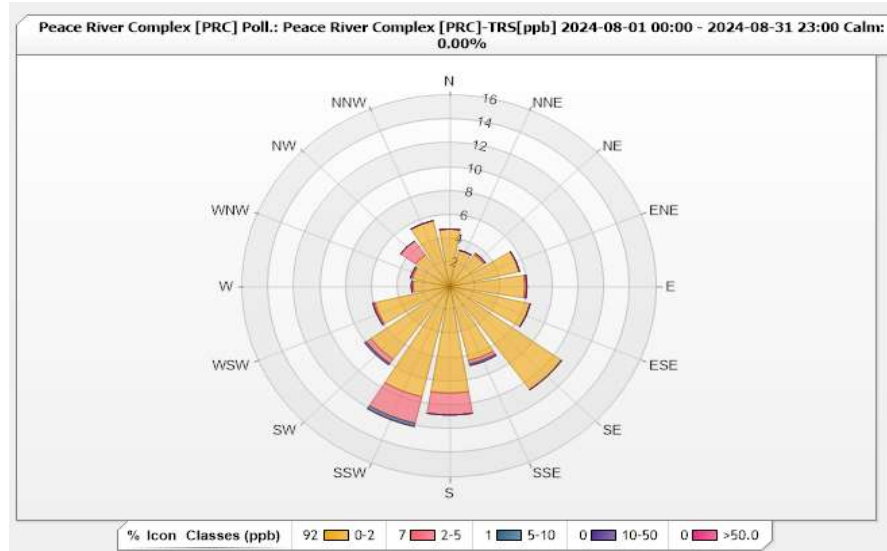


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-TRS[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	4.82	0	0	0	0	4.82
NNE	3.12	0	0	0	0	3.12
NE	3.26	0.14	0	0	0	3.4
ENE	5.52	0	0	0	0	5.52
E	5.81	0.14	0	0	0	5.95
ESE	6.37	0	0	0	0	6.37
SE	10.62	0	0	0	0	10.62
SSE	6.37	0.28	0.14	0	0	6.79
S	8.92	1.84	0	0	0	10.76
SSW	9.49	2.27	0.28	0	0	12.04
SW	7.51	0.42	0.14	0	0	8.07
WSW	5.95	0.14	0	0	0	6.09
W	2.83	0.14	0	0	0	2.97
WNW	2.97	0.14	0	0	0	3.11
NW	3.26	1.42	0	0	0	4.68
NNW	5.67	0	0	0	0	5.67
Summary	92.49	6.93	0.56	0	0	100



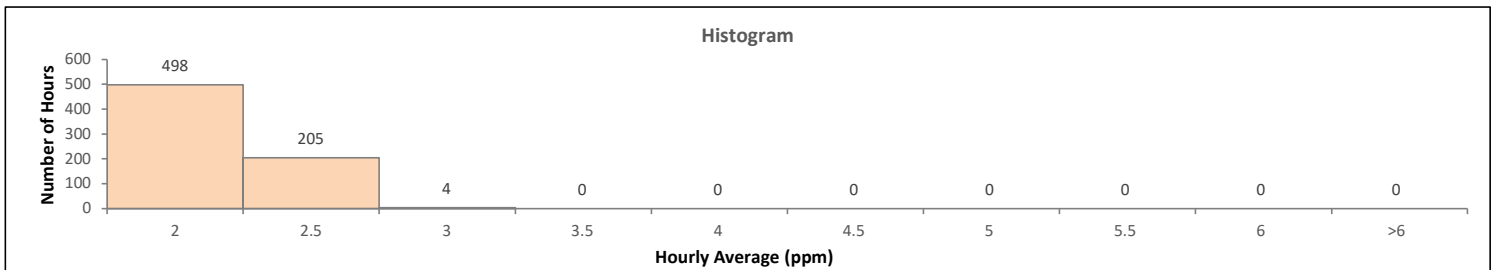
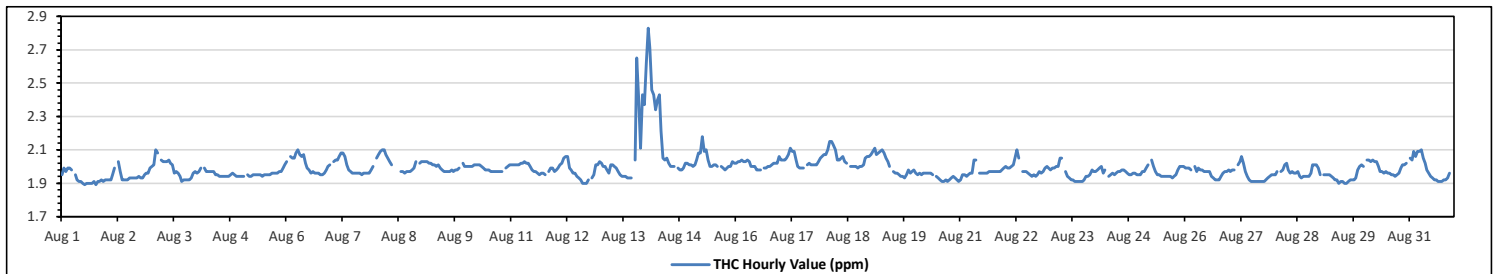
Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages
TOTAL HYDROCARBONS (THC) in ppm

Maximum Hourly Value:	2.83	ppm	on Aug 14 at hr 1	Hours in Service:	744
Maximum Daily Value:	2.20	ppm	on Aug 14	Hours of Data:	707
Minimum Hourly Value:	1.89	ppm	on Aug 1 at hr 12	Hours of Missing Data:	0
Minimum Daily Value:	1.93	ppm	on Aug 1	Hours of Calibration:	37
Monthly Average:	1.99	ppm		Operational Uptime:	100.0

Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)													10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 1	1.95	1.99	1.97	1.99	1.99	1.98	\$	1.95	1.92	1.91	1.91	1.90	1.89	1.90	1.90	1.90	1.90	1.91	1.89	1.91	1.91	1.92	1.91	1.92	1.91	1.92	1.91	1.92	1.91	1.92	1.89	1.99	1.93							
Aug 2	1.92	1.92	1.92	1.95	1.99	\$	2.03	1.97	1.92	1.92	1.92	1.92	1.93	1.93	1.93	1.93	1.93	1.94	1.93	1.93	1.93	1.95	1.96	1.96	1.96	1.99	1.92	2.03	1.94											
Aug 3	2.00	2.01	2.10	2.08	\$	2.04	2.03	2.03	2.03	2.04	2.02	2.01	1.96	1.97	1.96	1.94	1.91	1.92	1.92	1.92	1.92	1.92	1.93	1.96	1.97	1.91	2.10	1.99												
Aug 4	1.96	1.97	1.99	\$	1.99	1.97	1.97	1.97	1.97	1.97	1.97	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.95	1.96	1.94	1.94	1.94	1.94	1.99	1.96												
Aug 5	1.94	1.94	\$	1.95	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.94	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.99	2.01	1.94	2.01	1.96											
Aug 6	2.03	\$	2.06	2.05	2.05	2.08	2.10	2.07	2.06	2.07	2.02	1.99	1.98	1.96	1.96	1.97	1.96	1.96	1.96	1.95	1.95	1.96	1.98	2.00	2.01	1.95	2.10	2.01												
Aug 7	\$	2.03	2.04	2.04	2.06	2.08	2.08	2.06	2.01	1.98	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.96	1.98	2.00	\$	1.95	2.08	2.00											
Aug 8	2.05	2.07	2.09	2.10	2.10	2.07	2.05	2.03	2.01	C	C	C	C	C	1.97	1.97	1.96	1.97	1.97	1.97	1.98	1.99	2.03	\$	2.02	1.96	2.10	2.02												
Aug 9	2.03	2.03	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.01	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.98	1.97	1.98	1.98	1.99	\$	2.02	2.00	1.97	2.03	2.00												
Aug 10	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	\$	1.99	2.00	2.01	1.97	2.01	1.99												
Aug 11	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.02	2.02	2.00	1.98	1.97	1.97	1.97	1.96	1.95	1.96	1.96	1.95	\$	1.97	1.99	1.99	1.97	1.95	2.03	1.99												
Aug 12	1.98	1.99	2.01	2.02	2.05	2.06	2.06	1.99	1.98	1.96	1.96	1.94	1.93	1.92	1.90	1.90	1.90	1.92	\$	1.93	1.95	2.01	2.01	2.03	1.90	2.06	1.97													
Aug 13	2.02	2.00	2.00	1.98	1.96	2.01	2.01	2.00	1.99	1.97	1.95	1.94	1.94	1.94	1.93	1.93	1.93	\$	2.04	2.65	2.41	2.11	2.43	2.37	1.93	2.65	2.07													
Aug 14	2.62	2.83	2.71	2.46	2.43	2.34	2.40	2.43	2.21	2.05	2.04	2.05	2.02	2.00	2.00	2.00	2.00	\$	1.99	1.98	1.98	1.99	2.02	2.02	2.01	1.98	2.83	2.20												
Aug 15	2.01	2.00	2.01	2.04	2.08	2.08	2.18	2.09	2.10	2.04	2.00	2.00	2.01	2.01	2.00	\$	2.00	1.99	1.98	1.99	2.00	2.00	2.03	2.02	1.98	2.18	2.03													
Aug 16	2.02	2.03	2.03	2.04	2.03	2.03	2.04	2.03	2.00	2.00	2.00	1.98	1.98	1.98	\$	1.99	1.99	2.00	2.00	2.00	2.01	2.02	2.02	2.02	2.06	1.98	2.06	2.01												
Aug 17	2.04	2.04	2.04	2.05	2.07	2.11	2.09	2.09	2.04	2.00	1.99	1.99	1.99	\$	2.01	2.02	2.01	2.01	2.01	2.01	2.03	2.05	2.06	2.07	1.99	2.11	2.04													
Aug 18	2.07	2.10	2.15	2.15	2.13	2.10	2.04	2.04	2.05	2.06	2.03	2.02	\$	2.00	2.00	2.00	2.00	1.99	2.00	2.00	2.01	2.05	2.06	2.06	1.99	2.15	2.05													
Aug 19	2.07	2.09	2.11	2.07	2.08	2.09	2.10	2.08	2.05	2.03	2.00	\$	1.97	1.96	1.96	1.95	1.94	1.94	1.93	1.95	1.98	1.96	1.97	1.98	1.93	2.11	2.01													
Aug 20	1.96	1.95	1.96	1.95	1.96	1.96	1.96	1.96	1.96	1.95	\$	1.94	1.93	1.92	1.91	1.91	1.92	1.91	1.92	1.93	1.94	1.93	1.92	1.91	1.91	1.96	1.94													
Aug 21	1.92	1.95	1.95	1.94	1.95	1.96	1.96	2.04	2.04	\$	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	1.92	2.04	1.97												
Aug 22	2.00	1.99	1.99	2.00	2.01	2.05	2.10	2.05	\$	1.97	1.97	1.97	1.96	1.95	1.94	1.95	1.94	1.95	1.97	1.96	1.97	1.99	2.00	1.99	1.94	2.10	1.99													
Aug 23	1.98	1.99	1.99	2.00	2.00	2.05	2.05	\$	1.97	1.94	1.93	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.92	1.94	1.94	1.95	1.98	1.97	1.91	2.05	1.96													
Aug 24	1.97	1.98	1.99	2.00	1.96	1.98	\$	1.94	1.95	1.96	1.95	1.96	1.97	1.97	1.98	1.98	1.97	1.96	1.95	1.95	1.96	1.96	1.95	1.95	1.94	2.00	1.96													
Aug 25	1.95	1.97	1.97	1.99	2.01	\$	2.04	2.00	1.97	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.94	1.95	1.98	2.00	2.00	2.00	1.93	2.04	1.97												
Aug 26	1.99	1.99	1.99	1.98	\$	2.00	1.97	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.94	1.93	1.92	1.92	1.92	1.94	1.96	1.97	1.97	1.98	1.92	2.00	1.97													
Aug 27	1.97	1.98	1.98	\$	2.01	2.03	2.06	2.02	1.97	1.94	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.93	1.94	1.95	1.95	1.91	2.06	1.95													
Aug 28	1.95	1.97	\$	1.97	1.98	2.01	2.02	1.98	1.96	1.97	1.96	1.96	1.97	1.94	1.93	1.94	1.94	1.94	1.94	1.96	2.01	2.01	2.01	1.99	1.93	2.02	1.97													
Aug 29	1.95	\$	1.95	1.95	1.95	1.95	1.94	1.93	1.92	1.92	1.90	1.91	1.91	1.90	1.90	1.91	1.92	1.92	1.92	1.93	1.98	2.00	2.01	2.00	1.90	2.01	1.94													
Aug 30	\$	2.04	2.04	2.03	2.04	2.03	2.03	2.00	1.97	1.97	1.96	1.97	1.96	1.96	1.96	1.95	1.94	1.95	1.96	1.99	2.01	2.01	2.02	\$	1.94	2.04	1.99													
Aug 31	2.05	2.04	2.09	2.06	2.09	2.09	2.10	2.05	2.02	1.98	1.96	1.94	1.93	1.92	1.92	1.91	1.91	1.91	1.92	1.92	1.93	1.96	\$	1.96	1.91	2.10	1.99													
Diurnal Maximum	2.62	2.83	2.71	2.46	2.43	2.34	2.40	2.43	2.21	2.07	2.04	2.05	2.02	2.01	2.01	2.02	2.01	2.01	2.04	2.65	2.41	2.11	2.43	2.37																
Diurnal Average	2.01	2.03	2.04	2.03	2.03	2.04	2.05	2.03	2.00	1.98	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.98	1.98	1.99	2.01	2.00																

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

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

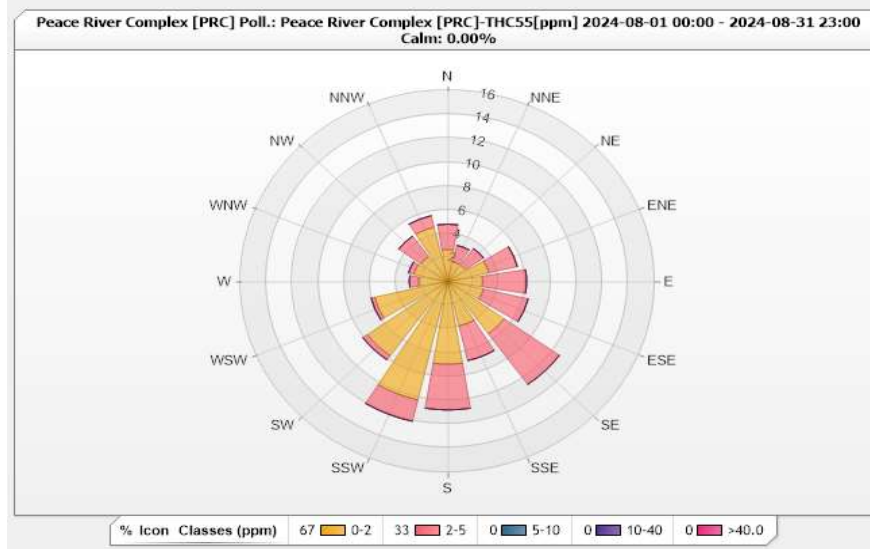


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-THC55[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	2.69	2.12	0	0	0	4.81
NNE	1.7	1.41	0	0	0	3.11
NE	1.7	1.7	0	0	0	3.4
ENE	3.25	2.26	0	0	0	5.51
E	2.69	3.39	0	0	0	6.08
ESE	2.83	3.54	0	0	0	6.37
SE	5.37	5.23	0	0	0	10.6
SSE	3.82	2.97	0	0	0	6.79
S	6.93	3.82	0	0	0	10.75
SSW	10.18	1.84	0	0	0	12.02
SW	7.64	0.42	0	0	0	8.06
WSW	5.8	0.28	0	0	0	6.08
W	2.26	0.71	0	0	0	2.97
WNW	2.69	0.42	0	0	0	3.11
NW	2.55	2.12	0	0	0	4.67
NNW	4.67	0.99	0	0	0	5.66
Summary	66.77	33.22	0	0	0	100



Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages
METHANE (CH4) in ppm

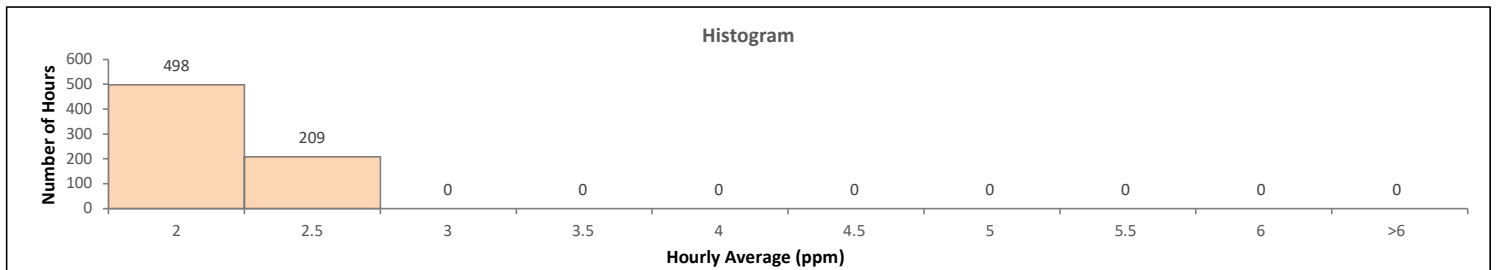
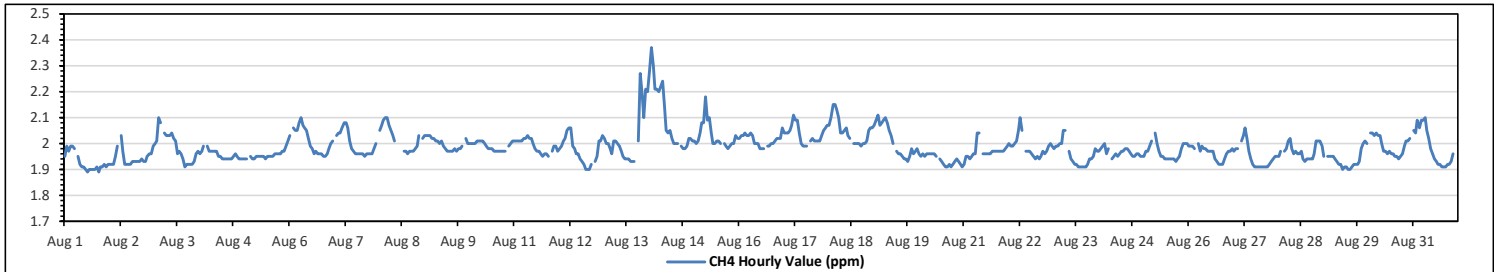
Maximum Hourly Value:	2.37	ppm	on Aug 14 at hr 1	Hours in Service:	744
Maximum Daily Value:	2.10	ppm	on Aug 14	Hours of Data:	707
Minimum Hourly Value:	1.89	ppm	on Aug 1 at hr 12	Hours of Missing Data:	0
Minimum Daily Value:	1.93	ppm	on Aug 1	Hours of Calibration:	37
Monthly Average:	1.99	ppm		Operational 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			
Aug 1	1.95	1.99	1.97	1.99	1.99	1.98	\$	1.95	1.92	1.91	1.91	1.90	1.89	1.90	1.90	1.90	1.90	1.91	1.89	1.91	1.91	1.92	1.91	1.92	1.89	1.99	1.93			
Aug 2	1.92	1.92	1.92	1.95	1.99	\$	2.03	1.97	1.92	1.92	1.92	1.92	1.93	1.93	1.93	1.93	1.93	1.94	1.93	1.93	1.95	1.96	1.96	1.99	1.92	2.03	1.94			
Aug 3	2.00	2.01	2.10	2.08	\$	2.04	2.03	2.03	2.03	2.04	2.02	2.01	1.96	1.97	1.96	1.94	1.91	1.92	1.92	1.92	1.93	1.96	1.96	1.97	1.91	2.10	1.99			
Aug 4	1.96	1.97	1.99	\$	1.99	1.97	1.97	1.97	1.97	1.97	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.95	1.94	1.94	1.94	1.94	1.99	1.96			
Aug 5	1.94	1.94	\$	1.95	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.94	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.99	2.01	1.96	1.96			
Aug 6	2.03	\$	2.06	2.05	2.05	2.08	2.10	2.07	2.06	2.05	2.02	1.99	1.98	1.96	1.96	1.97	1.96	1.96	1.96	1.95	1.95	1.96	1.98	2.00	1.95	2.10	2.01			
Aug 7	\$	2.03	2.04	2.04	2.06	2.08	2.08	2.06	2.01	1.98	1.97	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.96	1.98	2.00	\$	1.95	2.08	2.00		
Aug 8	2.05	2.07	2.09	2.10	2.10	2.07	2.05	2.03	2.01	C	C	C	C	C	1.97	1.97	1.96	1.97	1.97	1.97	1.98	1.99	2.03	\$	2.02	1.96	2.10	2.02		
Aug 9	2.03	2.03	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.01	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.99	\$	2.02	2.00	1.97	2.03	2.00		
Aug 10	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	\$	1.99	2.00	2.01	1.97	2.01	1.99
Aug 11	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.02	2.02	2.00	1.98	1.97	1.97	1.96	1.95	1.96	1.95	\$	1.97	1.99	1.99	1.97	1.95	2.03	1.99	1.95	2.03	1.99	
Aug 12	1.98	1.99	2.01	2.02	2.05	2.06	2.06	1.99	1.98	1.96	1.96	1.94	1.93	1.92	1.90	1.90	1.90	1.92	\$	1.93	1.95	2.01	2.01	2.03	1.90	2.06	1.97			
Aug 13	2.02	2.00	2.00	1.98	1.96	2.01	2.01	2.00	1.99	1.97	1.95	1.94	1.94	1.94	1.93	1.93	1.93	\$	2.01	2.27	2.19	2.10	2.21	2.20	1.93	2.27	2.02			
Aug 14	2.28	2.37	2.30	2.21	2.21	2.20	2.22	2.24	2.14	2.05	2.04	2.05	2.02	2.00	2.00	2.00	\$	1.99	1.98	1.98	1.99	2.02	2.02	2.01	1.98	2.37	2.10			
Aug 15	2.01	2.00	2.01	2.04	2.08	2.08	2.18	2.09	2.10	2.04	2.00	2.00	2.01	2.01	2.00	\$	2.00	1.99	1.98	1.99	2.00	2.00	2.03	2.02	1.98	2.18	2.03			
Aug 16	2.02	2.03	2.03	2.04	2.03	2.03	2.04	2.03	2.00	2.00	2.00	1.98	1.98	1.98	\$	1.99	1.99	2.00	2.00	2.00	2.01	2.02	2.02	2.02	2.06	1.98	2.06	2.01		
Aug 17	2.04	2.04	2.04	2.05	2.07	2.11	2.09	2.09	2.04	2.00	1.99	1.99	1.99	\$	2.01	2.02	2.01	2.01	2.01	2.01	2.03	2.05	2.06	2.07	1.99	2.11	2.04			
Aug 18	2.07	2.10	2.15	2.15	2.13	2.10	2.04	2.04	2.05	2.06	2.03	2.02	\$	2.00	2.00	2.00	2.00	1.99	2.00	2.00	2.01	2.05	2.06	2.06	1.99	2.15	2.05			
Aug 19	2.07	2.09	2.11	2.07	2.08	2.09	2.10	2.08	2.05	2.03	2.00	\$	1.97	1.96	1.96	1.95	1.94	1.94	1.93	1.95	1.98	1.96	1.97	1.98	1.93	2.11	2.01			
Aug 20	1.96	1.95	1.96	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.95	\$	1.94	1.93	1.92	1.91	1.91	1.92	1.91	1.92	1.93	1.94	1.93	1.92	1.91	1.91	1.96	1.94		
Aug 21	1.92	1.95	1.95	1.94	1.95	1.96	1.96	2.04	2.04	\$	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	1.92	2.04	1.97		
Aug 22	2.00	1.99	1.99	2.00	2.01	2.05	2.10	2.05	\$	1.97	1.97	1.97	1.96	1.95	1.94	1.95	1.94	1.95	1.97	1.96	1.97	1.99	2.00	1.99	1.94	2.10	1.99			
Aug 23	1.98	1.99	1.99	2.00	2.00	2.05	2.05	\$	1.97	1.94	1.93	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.92	1.94	1.94	1.95	1.98	1.97	1.91	2.05	1.96			
Aug 24	1.97	1.98	1.99	2.00	1.96	1.98	\$	1.94	1.95	1.96	1.95	1.96	1.97	1.97	1.98	1.98	1.97	1.96	1.95	1.95	1.96	1.96	1.95	1.95	1.94	2.00	1.96			
Aug 25	1.95	1.97	1.97	1.99	2.01	\$	2.04	2.00	1.97	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.94	1.95	1.98	2.00	2.00	2.00	1.93	2.04	1.97			
Aug 26	1.99	1.99	1.99	1.98	\$	2.00	1.97	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.94	1.93	1.92	1.92	1.92	1.94	1.96	1.97	1.97	1.98	1.92	2.00	1.97			
Aug 27	1.97	1.98	1.98	\$	2.01	2.03	2.06	2.02	1.97	1.94	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.93	1.94	1.95	1.95	1.91	2.06	1.95			
Aug 28	1.95	1.97	\$	1.97	1.98	2.01	2.02	1.98	1.96	1.97	1.96	1.96	1.97	1.94	1.93	1.94	1.94	1.94	1.94	1.96	2.01	2.01	2.01	1.99	1.93	2.02	1.97			
Aug 29	1.95	\$	1.95	1.95	1.95	1.95	1.94	1.93	1.92	1.92	1.90	1.91	1.91	1.90	1.90	1.91	1.92	1.92	1.92	1.93	1.98	2.00	2.01	2.00	1.90	2.01	1.94			
Aug 30	\$	2.04	2.04	2.03	2.04	2.03	2.03	2.00	1.97	1.97	1.96	1.97	1.96	1.96	1.95	1.95	1.94	1.95	1.96	1.99	2.01	2.01	2.02	\$	1.94	2.04	1.99			
Aug 31	2.05	2.04	2.09	2.06	2.09	2.09	2.10	2.05	2.02	1.98	1.96	1.94	1.93	1.92	1.92	1.91	1.91	1.91	1.92	1.92	1.93	1.96	\$	1.96	1.91	2.10	1.99			
Diurnal Maximum	2.28	2.37	2.30	2.21	2.21	2.20	2.22	2.24	2.14	2.06	2.04	2.05	2.02	2.01	2.01	2.02	2.01	2.01	2.01	2.27	2.19	2.10	2.21	2.20						
Diurnal Average	2.00	2.02	2.03	2.02	2.03	2.03	2.04	2.02	2.00	1.98	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.97	1.98	1.99	2.00	2.00						

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

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

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

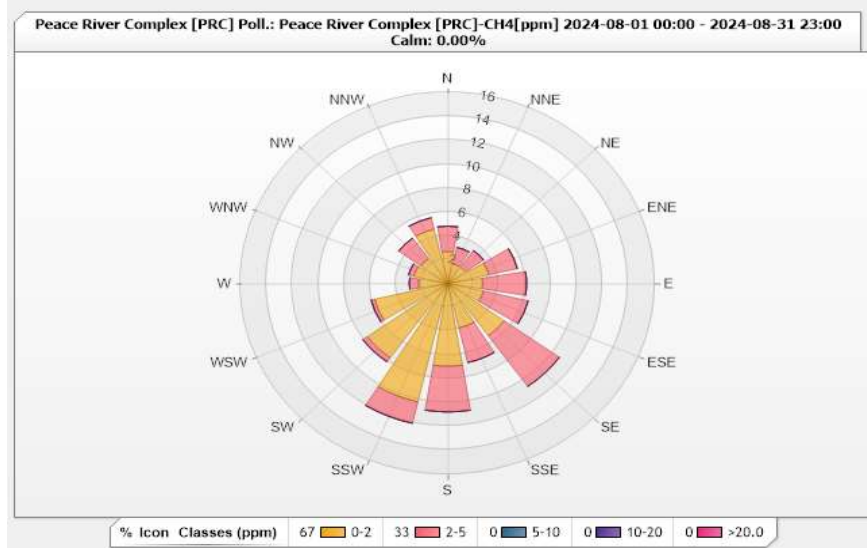


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-CH4[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	2.69	2.12	0	0	0	4.81
NNE	1.7	1.41	0	0	0	3.11
NE	1.7	1.7	0	0	0	3.4
ENE	3.25	2.26	0	0	0	5.51
E	2.69	3.39	0	0	0	6.08
ESE	2.83	3.54	0	0	0	6.37
SE	5.37	5.23	0	0	0	10.6
SSE	3.82	2.97	0	0	0	6.79
S	6.93	3.82	0	0	0	10.75
SSW	10.18	1.84	0	0	0	12.02
SW	7.64	0.42	0	0	0	8.06
WSW	5.8	0.28	0	0	0	6.08
W	2.26	0.71	0	0	0	2.97
WNW	2.69	0.42	0	0	0	3.11
NW	2.55	2.12	0	0	0	4.67
NNW	4.67	0.99	0	0	0	5.66
Summary	66.77	33.22	0	0	0	100



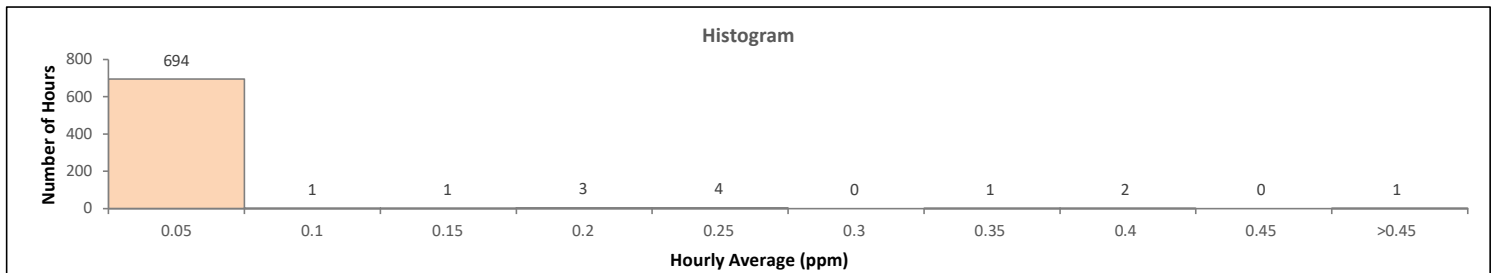
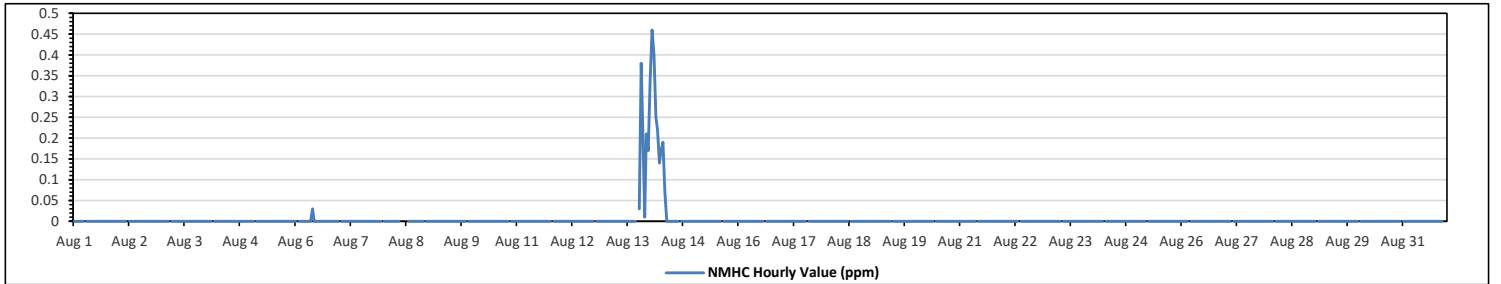
Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages
NON-METHANE HYDROCARBONS (NMHC) in ppm

Maximum Hourly Value:	0.46	ppm	on Aug 14 at hr 1	Hours in Service:	744
Maximum Daily Value:	0.10	ppm	on Aug 14	Hours of Data:	707
Minimum Hourly Value:	0.00	ppm	on Aug 1 at hr 0	Hours of Missing Data:	0
Minimum Daily Value:	0.00	ppm	on Aug 1	Hours of Calibration:	37
Monthly Average:	0.00	ppm		Operational Uptime:	100.0

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average	
Aug 1	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 2	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 3	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 4	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 5	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aug 6	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	
Aug 7	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	
Aug 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	
Aug 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	0.00	0.00	0.00	0.00	
Aug 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	0.00	0.00	0.00	0.00	
Aug 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	0.00	0.00	0.00	0.00	
Aug 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	0.00	0.00	0.00	0.00	
Aug 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	\$	0.03	0.38	0.22	0.01	0.21	0.17	0.00	0.38	0.04
Aug 14	0.34	0.46	0.40	0.25	0.22	0.14	0.17	0.19	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.10	
Aug 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 24	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 25	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 26	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 27	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 28	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 29	0.00	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 30	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	0.00	0.00	0.00	0.00	0.00
Aug 31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.34	0.46	0.40	0.25	0.22	0.14	0.17	0.19	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.38	0.22	0.01	0.21	0.17				
Diurnal Average	0.01	0.02	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01				

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

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

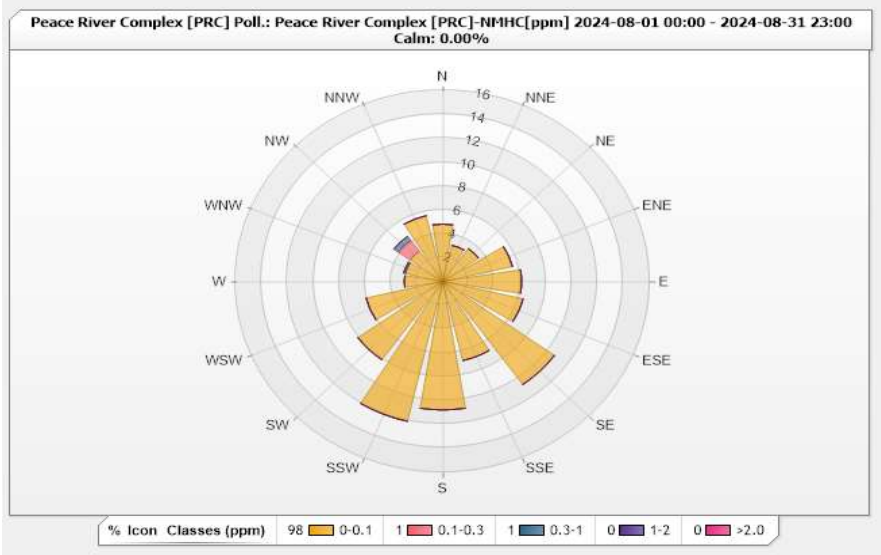


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-NMHC[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

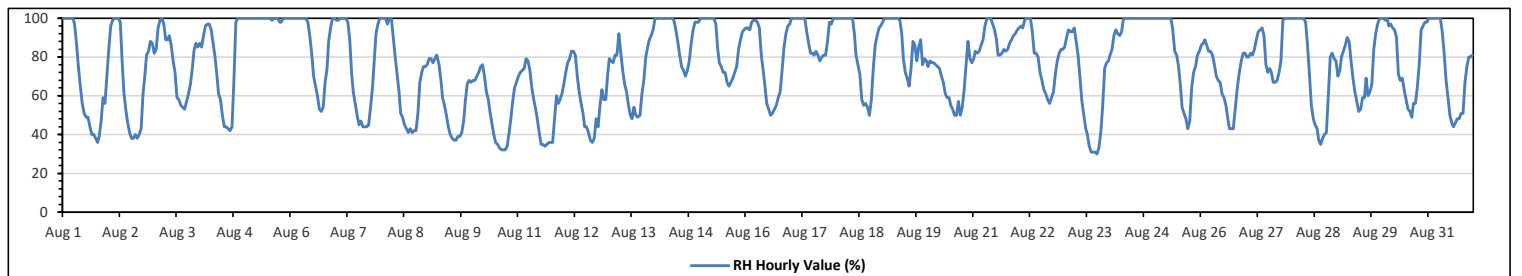
Calm: 0.00% Valid Data: 95.03% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	4.81	0	0	0	0	4.81
NNE	3.11	0	0	0	0	3.11
NE	3.39	0	0	0	0	3.39
ENE	5.52	0	0	0	0	5.52
E	6.08	0	0	0	0	6.08
ESE	6.36	0	0	0	0	6.36
SE	10.61	0	0	0	0	10.61
SSE	6.79	0	0	0	0	6.79
S	10.75	0	0	0	0	10.75
SSW	12.02	0	0	0	0	12.02
SW	8.06	0	0	0	0	8.06
WSW	6.08	0	0	0	0	6.08
W	2.97	0	0	0	0	2.97
WNW	2.97	0	0.14	0	0	3.11
NW	3.11	1.13	0.42	0	0	4.66
NNW	5.66	0	0	0	0	5.66
Summary	98.29	1.13	0.56	0	0	100



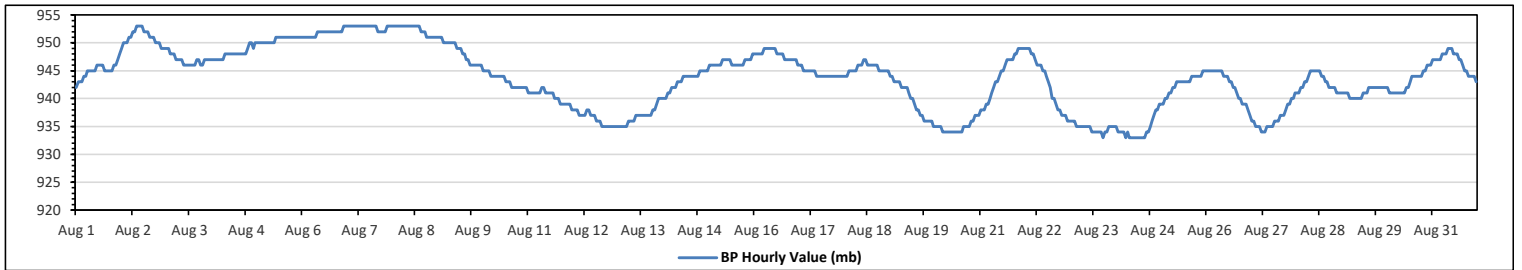
Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Aug 1 at hr 0	Hours in Service:	744																											
Maximum Daily Value:	99.8	%	on Aug 5	Hours of Data:	744																											
Minimum Hourly Value:	30	%	on Aug 23 at hr 17	Hours of Missing Data:	0																											
Minimum Daily Value:	52.9	%	on Aug 10	Hours of Calibration:	0																											
Monthly Average:	76.0	%		Operational Uptime:	100.0																											
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average						
Aug 1	100	100	100	100	100	100	97	87	75	65	56	51	49	49	44	40	40	38	36	39	47	59	56	70	36	100	66.6					
Aug 2	84	96	99	100	100	100	98	80	62	53	46	41	38	38	40	38	40	43	61	71	81	83	88	87	38	100	69.5					
Aug 3	82	84	95	99	100	97	89	89	91	86	78	72	59	58	55	54	53	57	61	66	74	83	87	85	53	100	77.3					
Aug 4	87	85	91	96	97	97	94	87	80	72	61	58	50	44	44	43	42	44	68	98	100	100	100	100	42	100	76.6					
Aug 5	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99	100	100	100	98	98	100	100	100	100	98	100	99.8					
Aug 6	100	100	100	100	100	100	100	100	100	98	91	82	70	65	60	53	52	54	67	74	88	95	100	100	52	100	85.4					
Aug 7	99	99	100	100	100	100	98	89	71	62	56	50	45	47	44	44	44	45	54	64	79	92	97	100	44	100	74.1					
Aug 8	100	100	100	97	100	100	90	80	71	62	51	49	45	43	41	43	41	42	42	51	67	72	75	75	41	100	68.2					
Aug 9	76	79	79	77	79	81	76	68	59	55	50	44	40	38	37	37	39	39	41	47	57	66	68	67	37	81	58.3					
Aug 10	68	68	70	72	75	76	70	62	58	52	46	40	36	35	33	32	32	32	34	41	49	57	64	67	32	76	52.9					
Aug 11	70	72	73	74	79	78	73	64	58	53	48	41	35	35	34	35	36	36	36	48	60	56	58	61	34	79	54.7					
Aug 12	66	72	77	79	83	83	81	70	62	56	51	44	44	41	37	36	38	48	44	55	63	58	58	69	36	83	59.0					
Aug 13	79	78	77	81	81	92	82	73	66	62	55	50	48	54	50	49	50	61	68	80	85	89	91	94	48	94	70.6					
Aug 14	100	100	100	100	100	100	100	100	100	97	94	88	81	75	73	70	73	78	87	94	98	98	98	98	70	100	91.9					
Aug 15	100	100	100	100	100	100	100	100	97	84	77	75	72	72	67	65	67	69	72	75	84	89	93	94	65	100	85.5					
Aug 16	95	95	94	98	99	99	98	95	81	73	64	56	53	50	51	53	55	59	62	73	85	92	96	97	50	99	78.0					
Aug 17	100	100	100	100	100	100	100	100	93	87	82	82	81	83	81	78	80	81	81	88	98	97	100	100	78	100	91.3					
Aug 18	100	100	100	100	100	100	100	100	100	92	81	76	71	58	55	56	54	50	58	74	86	91	95	96	50	100	83.0					
Aug 19	98	100	100	100	100	100	100	100	100	99	92	79	72	69	65	74	88	86	78	85	89	76	79	78	65	100	87.8					
Aug 20	75	78	77	77	76	75	74	70	67	61	59	59	55	53	50	50	57	50	54	63	76	88	79	77	50	88	66.7					
Aug 21	79	83	82	83	86	89	96	100	100	100	97	94	89	81	81	82	84	83	84	87	89	91	92	94	79	100	88.6					
Aug 22	95	96	95	99	100	100	100	93	82	82	80	72	68	63	61	58	56	59	62	71	78	82	84	84	56	100	80.0					
Aug 23	85	90	94	93	93	95	88	81	69	57	50	43	40	34	31	31	31	30	33	41	55	74	77	78	30	95	62.2					
Aug 24	81	84	91	94	92	91	93	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	81	100	96.9					
Aug 25	100	100	100	100	100	100	100	100	100	94	83	81	75	65	54	51	48	43	47	64	72	75	81	83	43	100	79.8					
Aug 26	86	87	89	86	83	83	81	76	70	68	67	61	59	55	48	43	43	43	53	63	71	78	82	82	43	89	69.0					
Aug 27	80	80	82	81	84	89	93	94	95	91	76	72	74	72	67	67	68	72	78	99	100	100	100	100	67	100	83.9					
Aug 28	100	100	100	100	100	100	100	98	86	71	55	48	45	43	37	35	38	40	41	60	80	82	79	78	35	100	71.5					
Aug 29	70	73	80	83	86	90	88	78	69	62	57	52	53	59	59	69	60	62	66	84	92	97	100	100	52	100	74.5					
Aug 30	100	99	100	96	97	95	94	90	71	68	69	63	58	53	52	49	56	56	64	76	94	96	98	98	49	100	78.8					
Aug 31	100	100	100	100	100	100	100	93	82	68	59	50	46	44	46	48	48	51	51	67	75	80	80	81	44	100	73.7					
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100							
Diurnal Average	88.9	90.3	91.8	92.4	93.2	93.9	92.0	87.6	81.1	75.3	68.9	63.8	59.9	57.5	54.8	54.4	55.2	56.3	60.4	70.6	79.6	83.7	85.6	86.9								
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



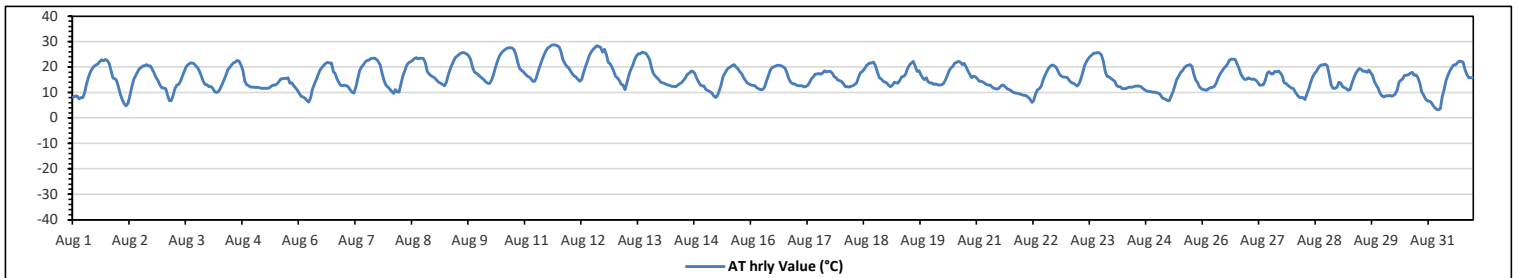
Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	953	mb	on Aug 2 at hr 8	Hours in Service:	744																																	
Maximum Daily Value:	953	mb	on Aug 7	Hours of Data:	744																																	
Minimum Hourly Value:	933	mb	on Aug 23 at hr 17	Hours of Missing Data:	0																																	
Minimum Daily Value:	934	mb	on Aug 24	Hours of Calibration:	0																																	
Monthly Average:	944	mb		Operational Uptime:	100.0																																	
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average											
Aug 1	942	943	943	943	944	944	945	945	945	945	945	946	946	946	946	945	945	945	945	945	946	946	947	948	942	948	945											
Aug 2	949	950	950	950	951	951	952	952	953	953	953	953	952	952	952	951	951	951	950	950	950	949	949	949	949	953	951											
Aug 3	949	949	948	948	948	947	947	947	947	946	946	946	946	946	946	946	947	947	946	946	947	947	947	947	946	949	947											
Aug 4	947	947	947	947	947	947	947	948	948	948	948	948	948	948	948	948	948	948	948	949	950	950	949	950	947	950	948											
Aug 5	950	950	950	950	950	950	950	950	950	950	951	951	951	951	951	951	951	951	951	951	951	951	951	951	950	951	951											
Aug 6	951	951	951	951	951	951	951	951	952	952	952	952	952	952	952	952	952	952	952	952	952	952	953	953	951	953	952											
Aug 7	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	952	952	952	952	952	952	953	953	952	953	953											
Aug 8	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	952	952	952	951	951	951	951	951	951	951	953	952											
Aug 9	951	951	951	950	950	950	950	950	950	950	949	949	949	948	948	947	947	946	946	946	946	946	946	946	946	951	948											
Aug 10	945	945	945	945	944	944	944	944	944	944	944	944	943	943	943	942	942	942	942	942	942	942	942	942	942	945	943											
Aug 11	941	941	941	941	941	941	941	942	942	941	941	941	941	941	940	940	940	939	939	939	939	939	939	938	938	942	940											
Aug 12	938	938	938	937	937	937	937	938	938	937	937	937	936	936	936	935	935	935	935	935	935	935	935	935	935	938	936											
Aug 13	935	935	935	935	935	936	936	936	936	936	937	937	937	937	937	937	937	937	938	938	939	940	940	940	935	940	937											
Aug 14	940	940	941	941	942	942	942	943	943	943	944	944	944	944	944	944	944	944	944	945	945	945	945	945	940	945	943											
Aug 15	946	946	946	946	946	946	946	946	947	947	947	947	946	946	946	946	946	946	946	947	947	947	947	948	946	948	946											
Aug 16	948	948	948	948	948	949	949	949	949	949	949	949	948	948	948	948	947	947	947	947	947	947	947	946	946	949	948											
Aug 17	946	946	945	945	945	945	945	945	945	944	944	944	944	944	944	944	944	944	944	944	944	944	944	944	944	946	944											
Aug 18	944	944	945	945	945	945	945	946	946	946	947	947	946	946	946	946	946	946	945	945	945	945	945	944	947	945												
Aug 19	944	944	943	943	943	943	942	942	942	942	941	940	940	939	938	938	937	937	936	936	936	936	935	935	935	944	940											
Aug 20	935	935	935	935	934	934	934	934	934	934	934	934	934	934	934	935	935	935	935	936	936	937	937	937	934	937	935											
Aug 21	938	938	938	939	939	940	941	942	943	943	944	945	945	946	947	947	947	948	948	949	949	949	949	938	938	949	944											
Aug 22	949	949	949	948	948	947	946	946	946	945	945	944	943	942	940	940	939	938	938	937	937	937	936	936	936	949	943											
Aug 23	936	936	936	935	935	935	935	935	935	935	935	934	934	934	934	934	934	933	934	934	935	935	935	935	933	936	935											
Aug 24	935	934	934	934	934	933	934	933	933	933	933	933	933	933	933	933	934	934	935	936	937	938	938	939	933	939	934											
Aug 25	939	939	940	940	941	941	942	942	943	943	943	943	943	943	943	943	944	944	944	944	944	944	945	945	939	945	943											
Aug 26	945	945	945	945	945	945	945	945	945	944	944	944	943	943	942	942	941	940	940	939	939	939	938	937	937	945	943											
Aug 27	936	936	935	935	935	934	934	934	935	935	935	935	936	936	936	937	937	937	938	939	939	940	940	941	934	941	936											
Aug 28	941	941	942	942	943	943	944	945	945	945	945	945	944	944	943	943	942	942	942	942	941	941	941	941	941	945	943											
Aug 29	941	941	941	941	940	940	940	940	940	940	940	941	941	941	942	942	942	942	942	942	942	942	942	942	940	942	941											
Aug 30	942	941	941	941	941	941	941	941	941	941	942	942	943	944	944	944	944	944	944	945	945	946	946	946	941	946	943											
Aug 31	947	947	947	947	947	948	948	948	949	949	949	948	948	948	947	947	946	945	945	944	944	944	944	943	943	949	947											
Diurnal Maximum	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	952	952	952	952	952	953	953	953														
Diurnal Average	944	944	944	944	944	944	944	944	944	944	944	944	944	944	944	944	944	943	943	943	944	944	944	944	944													
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance															
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance										P	Power Failure				
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																										
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																						
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																						



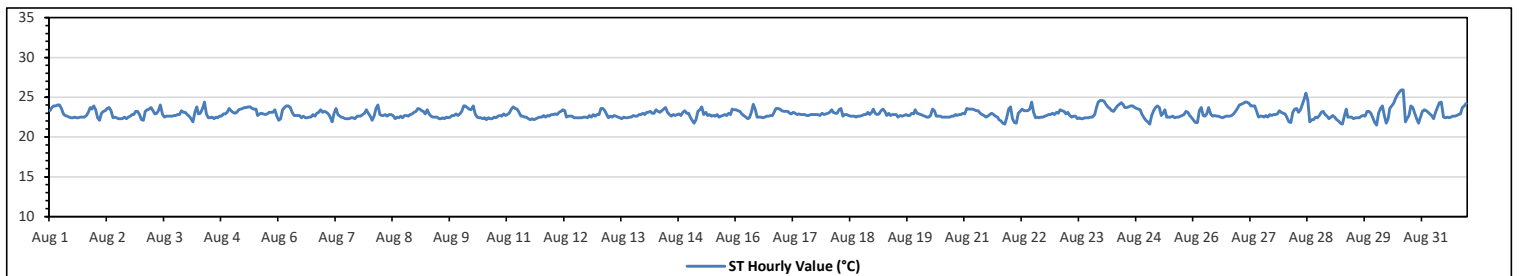
Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	28.7	°C	on Aug 11 at hr 15	Hours in Service:	744																											
Maximum Daily Value:	22.1	°C	on Aug 11	Hours of Data:	744																											
Minimum Hourly Value:	3.2	°C	on Aug 31 at hr 5	Hours of Missing Data:	0																											
Minimum Daily Value:	11.8	°C	on Aug 24	Hours of Calibration:	0																											
Monthly Average:	16.0	°C		Operational Uptime:	100.0																											
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average						
Aug 1	8.1	8.6	8.6	7.5	7.9	8	10.2	13.2	15.9	17.9	19.3	20.3	20.8	21.2	22.2	22.8	22.5	22.9	22.6	21.4	18.7	15.7	15.5	14.7	7.5	22.9	16.1					
Aug 2	12.3	9.4	7.3	5.6	4.7	5.7	8.8	12.3	15.2	16.7	18.1	19.3	19.9	20.4	20.6	21	20.5	20.4	19	17.6	15.8	14.6	12.9	11.8	4.7	21.0	14.6					
Aug 3	11.8	11.6	8.8	6.8	6.7	8.9	11.7	13	13.3	14.5	16.4	18.3	20.2	21	21.6	21.5	21.3	20.5	19.7	18.5	16.6	14.4	13.2	13.1	6.7	21.6	15.1					
Aug 4	12.3	12.4	11.7	10.3	10	10.5	11.5	13.2	14.9	16.8	18.9	19.7	20.7	21.6	22	22.6	22.4	20.9	18.7	14.4	13.1	12.6	12.1	12.1	10.0	22.6	15.6					
Aug 5	12	12	12	11.9	11.7	11.7	11.7	11.7	11.8	12.4	12.9	12.9	13.3	14.2	15.3	15.5	15.6	15.6	15.9	13.7	13.8	12.6	11.8	10.8	10.8	15.9	13.0					
Aug 6	9.7	8.5	8.2	7.8	6.8	6.3	8	11.2	13.2	14.9	16.9	18.8	19.9	20.7	21.4	21.8	21.6	21.5	18.1	17.5	15.5	13.9	13	12.6	6.3	21.8	14.5					
Aug 7	13	12.6	12.2	11.2	10.1	9.7	12.1	15.5	18.7	20	21	21.9	22.6	22.7	23.4	23.5	23.5	23	22.2	20.8	17.5	14.7	12.9	12.1	9.7	23.5	17.4					
Aug 8	11.4	10.5	9.6	11.1	10.3	10.1	13.4	16.6	18.6	20.7	21.7	22.1	22.6	23.4	23.8	23.2	23.5	23.5	23.4	21.8	18.4	17.3	16.5	16.1	9.6	23.8	17.9					
Aug 9	15.7	14.8	14.1	13.7	13.2	12.7	14.1	16.5	18.9	20.8	22.5	23.8	24.4	25	25.4	25.7	25.5	25.1	24.4	22.8	19.9	17.9	17.5	17.1	12.7	25.7	19.6					
Aug 10	16.3	15.7	15	14.2	13.6	13.5	14.8	16.9	19.3	21.7	23.9	25.3	26.1	26.7	27.2	27.5	27.7	27.5	26.9	25	21.8	19.5	18.7	18.1	13.5	27.7	21.0					
Aug 11	17.2	16.4	16	15.5	14.4	14.4	15.9	18.5	20.7	22.8	24.8	26.4	27.5	28	28.6	28.7	28.6	28.4	27.8	26.1	22.9	21.4	20.3	19.7	14.4	28.7	22.1					
Aug 12	18.5	17.3	16.5	16	15.2	14.5	15.2	18	20.3	22.4	24.3	25.8	26.9	27.7	28.3	28.1	27.8	25.8	27	24.9	21.8	21.2	19.9	18.3	14.5	28.3	21.7					
Aug 13	16.3	15.7	14.8	13.3	12.9	11.1	13.6	16.8	18.9	20.6	22.8	24.3	25.3	25.3	25.8	25.6	25.5	24.3	23	19.8	17.7	16.6	15.9	15	11.1	25.8	19.2					
Aug 14	14.1	13.8	13.5	13.2	12.9	12.6	12.4	12.4	12.3	12.9	13.4	13.9	14.7	15.8	17.2	17.6	18.5	18.3	17.6	15.7	14.2	12.9	12.6	12.5	12.3	18.5	14.4					
Aug 15	11.2	10.8	10.4	9.9	8.8	7.9	8.8	10.8	13.3	16.4	17.7	18.8	19.7	20	20.6	21	20	19.3	18.2	17.3	15.8	14.6	13.7	13.3	7.9	21.0	14.9					
Aug 16	12.9	12.8	12.6	11.9	11.4	11.1	11.1	12	14.5	16.5	18.5	19.7	20.1	20.4	20.7	20.7	20.5	20	19.6	17.8	15.4	14.1	13.4	13.4	11.1	20.7	15.9					
Aug 17	13	12.7	12.7	12.7	12.1	12.4	12.9	14.1	15.5	16.2	17.2	17.3	17.4	17.2	17.7	18.6	18.1	18.3	18.3	17.5	16.2	15.8	14.9	14.6	12.1	18.6	15.6					
Aug 18	14.3	13.4	12.3	12.3	12.1	12.4	12.7	13.2	13.8	16	17.8	18.4	19.2	20.5	21.1	21.5	21.6	21.9	20.5	17.9	15.9	15.3	14.5	14.1	12.1	21.9	16.4					
Aug 19	13.7	12.8	12.2	12.9	14	13.8	13.7	14.7	16.2	16.3	17.2	19.4	20.8	21.6	22.2	20.3	18.3	18.6	17.2	15.9	15	15.8	14.3	13.8	12.2	22.2	16.3					
Aug 20	13.8	13.2	13.4	13.1	13	13.1	13.4	14.8	16.6	18.6	19.6	20.2	21.4	21.8	22.2	21.9	21	21.4	20.1	18.7	17.3	15.9	16.4	16.2	13.0	22.2	17.4					
Aug 21	15.4	14.5	14.4	14.2	13.7	13.2	13	12.9	12	11.7	11.4	11.4	12.1	13	12.9	12.1	11.4	11.2	10.7	10.2	9.9	9.7	9.5	9.3	9.3	15.4	12.1					
Aug 22	9.1	8.9	8.8	8.1	7.4	6.1	6.7	9.3	11	11.5	12.5	15	16.6	18.2	19.6	20.5	20.9	20.5	19.9	18.2	16.8	16.3	16	16	6.1	20.9	13.9					
Aug 23	15.8	14.6	13.9	13.7	13.2	12.5	13.4	15.4	18.1	20.5	22.1	23.3	24.2	24.9	25.4	25.5	25.7	25.4	24.7	22.2	18.2	16.3	16.1	15.6	12.5	25.7	19.2					
Aug 24	14.9	14.4	12.8	12.2	12.2	11.6	11.5	11.5	11.9	12.1	12	12.3	12.5	12.5	12.5	12.3	11.6	11	10.6	10.4	10.4	10.2	10.1	10	10.0	14.9	11.8					
Aug 25	9.8	9.4	8.1	7.7	7.4	6.8	6.7	8.7	10.5	12.9	15	16.3	17.8	18.6	19.7	20.4	20.7	21	20.2	17.1	14.8	13.8	12.2	11.6	6.7	21.0	13.6					
Aug 26	11.1	11	10.9	11.5	11.9	12	12.4	13.8	15.9	17.3	18.5	19.6	20.3	21.4	22.7	23.1	23.1	22.9	21.2	19.4	17.2	16	15.2	15.2	10.9	23.1	16.8					
Aug 27	15.8	15.4	15.2	15.3	14.7	13.9	13	13.1	14.7	17.6	18.2	17.3	17.3	18.3	18.3	18.1	18.5	17.6	16.5	13.8	13.5	13	12.2	11.8	11.8	18.5	15.3					
Aug 28	11.5	10.2	9.1	8.1	8	7.9	7.2	9.4	11.6	14	15.9	17.3	18.2	19.4	20.4	20.8	21	21.1	20.4	16.8	12.9	11.7	11.7	12	7.2	21.1	14.0					
Aug 29	14.1	13.6	12.4	11.9	11.5	10.9	11.2	13.7	15.8	17.6	18.7	19.4	19.1	18.4	18.5	17.9	18.8	17.8	16.8	14.3	12.9	11.7	9.6	8.7	8.7	19.4	14.8					
Aug 30	8.3	8.8	8.6	8.9	8.5	8.9	9.4	10.9	14.1	14.7	15.3	16.7	16.8	16.9	17.6	17.9	16.8	17	15.8	13.6	10.2	9.1	7.6	6.7	6.7	17.9	12.5					
Aug 31	6.6	6.3	5	4	3.3	3.2	3.7	8.4	11.3	14.8	16.8	18.6	19.9	20.8	20.9	21.5	22.4	22.2	22	19.1	17.1	15.9	15.9	15.8	3.2	22.4	14.0					
Diurnal Maximum	18.5	17.3	16.5	16.0	15.2	14.5	15.9	18.5	20.7	22.8	24.8	26.4	27.5	28.0	28.6	28.7	28.6	28.4	27.8	26.1	22.9	21.4	20.3	19.7								
Diurnal Average	12.9	12.3	11.6	11.2	10.8	10.6	11.4	13.3	15.1	16.7	18.1	19.2	19.9	20.5	21.2	21.3	21.1	20.8	20.0	18.1	16.0	14.9	14.1	13.6								
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	25.9	°C	on Aug 30 at hr 13	Hours in Service:	744																																
Maximum Daily Value:	23.7	°C	on Aug 24	Hours of Data:	744																																
Minimum Hourly Value:	21.5	°C	on Aug 30 at hr 0	Hours of Missing Data:	0																																
Minimum Daily Value:	22.5	°C	on Aug 29	Hours of Calibration:	0																																
Monthly Average:	22.9	°C		Operational Uptime:	100.0																																
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average										
Aug 1	23.3	23.7	23.9	23.9	24.0	24.0	23.6	22.9	22.7	22.6	22.5	22.4	22.4	22.5	22.4	22.4	22.5	22.5	22.5	22.7	23.1	23.7	23.5	23.9	22.4	24.0	23.1										
Aug 2	23.4	22.4	22.1	23.0	23.2	23.3	23.6	23.7	23.3	22.4	22.5	22.4	22.3	22.3	22.3	22.5	22.3	22.5	22.6	22.8	22.8	23.2	23.2	22.8	22.1	23.7	22.8										
Aug 3	22.2	22.1	23.2	23.4	23.5	23.7	23.3	22.9	23.0	23.3	24.0	22.8	22.5	22.6	22.6	22.6	22.6	22.7	22.7	22.8	22.8	23.3	23.1	23.1	22.1	24.0	23.0										
Aug 4	22.8	22.6	23.2	21.9	23.1	23.8	22.9	23.0	23.6	24.4	22.9	22.4	22.4	22.5	22.3	22.5	22.4	22.6	22.6	22.9	22.9	23.1	23.6	23.3	21.9	24.4	22.9										
Aug 5	23.1	23.0	23.1	23.4	23.5	23.6	23.7	23.7	23.8	23.8	23.6	23.5	23.5	22.7	22.9	23.0	22.9	22.8	22.9	23.1	23.1	23.1	23.4	22.6	22.6	23.8	23.2										
Aug 6	22.1	22.3	23.4	23.7	23.9	23.9	23.7	23.1	22.7	22.7	22.7	22.4	22.6	22.6	22.4	22.4	22.5	22.5	22.8	22.6	23.0	23.1	23.4	23.1	22.1	23.9	22.9										
Aug 7	23.2	23.1	22.9	22.5	21.9	23.0	23.6	22.8	22.6	22.5	22.4	22.3	22.3	22.3	22.4	22.4	22.3	22.6	22.6	22.8	23.0	23.4	23.4	23.0	21.9	23.6	22.7										
Aug 8	22.6	22.1	22.6	23.6	24.0	22.8	22.7	22.7	22.8	22.6	22.8	22.8	22.7	22.3	22.5	22.4	22.6	22.4	22.7	22.7	22.6	22.8	22.9	23.1	22.1	24.0	22.7										
Aug 9	23.2	23.6	23.5	23.3	23.2	22.9	23.4	22.9	22.6	22.5	22.5	22.5	22.3	22.3	22.4	22.3	22.5	22.4	22.5	22.7	22.7	22.9	22.7	22.9	22.3	23.6	22.8										
Aug 10	23.2	23.9	23.9	23.7	23.5	23.4	23.9	22.9	22.5	22.4	22.4	22.3	22.4	22.2	22.4	22.3	22.3	22.5	22.4	22.6	22.7	22.6	22.9	22.7	22.2	23.9	22.8										
Aug 11	22.8	23.0	23.5	23.8	23.6	23.5	23.1	22.6	22.6	22.5	22.5	22.3	22.2	22.3	22.2	22.3	22.4	22.5	22.5	22.7	22.5	22.7	22.6	22.8	22.2	23.8	22.7										
Aug 12	22.8	22.9	22.8	23.1	23.2	23.4	23.3	22.5	22.6	22.6	22.6	22.4	22.4	22.4	22.4	22.4	22.5	22.5	22.4	22.7	22.5	22.8	22.6	22.8	22.4	23.4	22.7										
Aug 13	22.8	23.6	23.6	23.3	22.8	22.4	22.6	22.5	22.7	22.6	22.5	22.4	22.3	22.5	22.4	22.4	22.5	22.5	22.7	22.6	22.6	22.8	22.8	23.0	22.3	23.6	22.7										
Aug 14	22.8	23.1	23.1	23.2	23.0	23.0	23.4	23.2	23.1	23.3	23.5	23.7	23.1	22.8	22.6	22.8	22.7	22.8	22.9	22.7	23.1	23.3	23.0	23.0	22.6	23.7	23.1										
Aug 15	22.5	22.1	21.7	22.2	23.2	23.4	23.8	22.8	23.1	22.7	22.8	22.6	22.7	22.6	22.8	22.5	22.6	22.7	22.8	22.7	23.0	22.8	23.5	23.4	21.7	23.8	22.8										
Aug 16	23.4	23.3	23.2	22.9	22.7	22.5	22.3	22.4	23.1	24.1	23.5	22.5	22.5	22.5	22.4	22.5	22.6	22.6	22.7	22.7	23.1	23.6	23.6	23.5	22.3	24.1	22.9										
Aug 17	23.3	23.2	23.2	23.2	23.0	22.9	23.1	23.0	22.8	22.9	22.8	22.8	22.8	22.7	22.7	22.8	22.8	22.8	22.8	22.8	22.7	23.0	22.8	22.9	22.7	23.3	22.9										
Aug 18	23.0	23.1	23.4	23.1	23.0	23.0	23.4	23.6	22.6	22.8	22.8	22.7	22.6	22.6	22.6	22.5	22.6	22.6	22.7	22.8	22.8	23.1	22.8	23.1	22.5	23.6	22.9										
Aug 19	23.5	23.0	22.8	22.9	23.3	23.5	23.2	22.7	23.0	22.7	22.8	22.8	22.8	22.5	22.7	22.6	22.7	22.8	22.7	22.7	23.0	22.9	23.4	23.0	22.5	23.5	22.9										
Aug 20	22.9	22.8	22.7	22.6	22.5	22.5	22.7	23.5	23.3	22.6	22.6	22.6	22.5	22.5	22.5	22.5	22.5	22.6	22.6	22.6	22.8	22.8	23.0	22.5	23.5	22.7											
Aug 21	22.9	23.6	23.5	23.5	23.5	23.4	23.3	23.3	23.0	22.8	22.7	22.5	22.6	22.8	23.0	22.8	22.6	22.5	22.2	22.0	21.7	21.6	22.4	23.5	21.6	23.6	22.8										
Aug 22	23.8	22.3	21.8	21.7	23.0	23.2	23.5	23.3	23.3	23.3	23.5	24.4	23.1	22.4	22.5	22.4	22.5	22.5	22.6	22.7	22.8	22.8	23.0	22.8	21.7	24.4	22.9										
Aug 23	23.1	23.0	23.4	23.3	23.2	22.9	23.1	22.7	22.5	22.6	22.6	22.3	22.4	22.3	22.3	22.4	22.4	22.4	22.5	22.5	22.8	23.8	24.4	24.6	22.3	24.6	22.9										
Aug 24	24.6	24.5	24.1	23.8	23.6	23.3	23.2	23.6	23.9	24.1	24.3	24.1	23.7	23.7	23.8	23.9	23.9	23.7	23.6	23.5	23.4	22.8	22.4	22.1	22.1	24.6	23.7										
Aug 25	21.9	21.6	22.7	23.3	23.7	23.9	23.7	22.7	23.0	23.4	22.5	22.5	22.5	22.6	22.4	22.5	22.5	22.6	22.7	22.8	23.2	23.1	22.7	22.4	21.6	23.9	22.8										
Aug 26	22.1	21.8	21.8	23.3	23.7	22.7	22.6	22.9	23.7	22.8	22.6	22.7	22.6	22.6	22.5	22.4	22.5	22.6	22.6	22.6	22.7	22.9	23.2	23.6	21.8	23.7	22.7										
Aug 27	24.0	24.1	24.2	24.4	24.4	24.2	23.9	23.9	23.9	23.2	22.5	22.6	22.6	22.5	22.7	22.5	22.8	22.7	22.8	22.8	22.9	23.3	23.1	23.0	22.5	24.4	23.3										
Aug 28	22.9	22.4	21.9	21.8	23.1	23.5	23.6	23.1	23.4	24.1	24.8	25.5	24.6	21.9	22.2	22.2	22.5	22.4	22.7	23.1	23.2	22.8	22.6	22.3	21.8	25.5	23.0										
Aug 29	22.5	22.7	22.5	22.2	22.0	21.7	21.6	22.6	23.5	22.5	22.5	22.5	22.3	22.4	22.4	22.4	22.6	22.7	22.6	23.2	23.2	23.0	22.4	21.8	21.6	23.5	22.5										
Aug 30	21.5	23.0	23.6	23.9	22.7	21.7	22.3	23.6	23.9	24.2	24.8	25.3	25.6	25.9	25.9	21.9	22.3	22.7	23.9	23.7	23.0	22.3	21.7	22.5	21.5	25.9	23.4										
Aug 31	23.2	23.4	23.3	23.1	22.9	22.7	22.3	23.1	23.7	24.3	24.4	22.5	22.4	22.5	22.4	22.5	22.6	22.6	22.7	22.8	22.9	23.7	23.9	24.2	22.3	24.4	23.1										
Diurnal Maximum	24.6	24.5	24.2	24.4	24.4	24.2	23.9	23.9	23.9	24.4	24.8	25.5	25.6	25.9	25.9	23.9	23.9	23.7	23.9	23.7	23.4	23.8	24.4	24.6													
Diurnal Average	22.9	22.9	23.0	23.1	23.2	23.2	23.2	23.0	23.1	23.1	23.0	22.9	22.8	22.6	22.6	22.5	22.6	22.6	22.7	22.7	22.8	22.8	23.0	23.0	23.0												
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance														
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance										P	Power Failure			
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																					
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																					

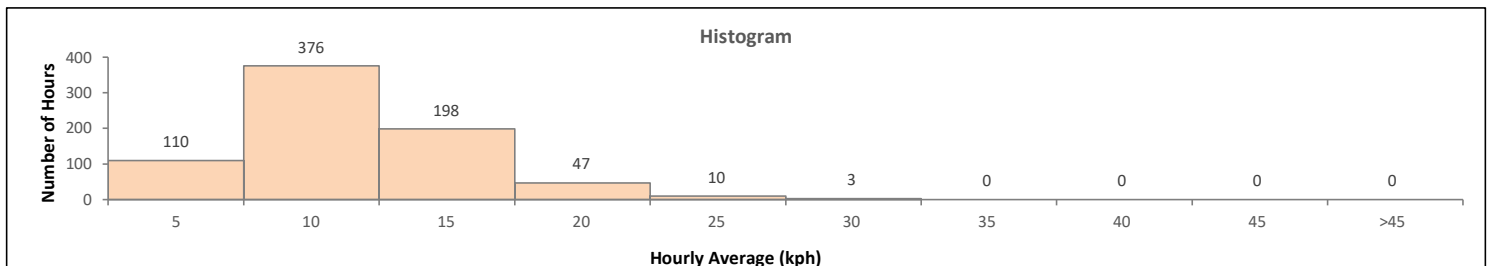
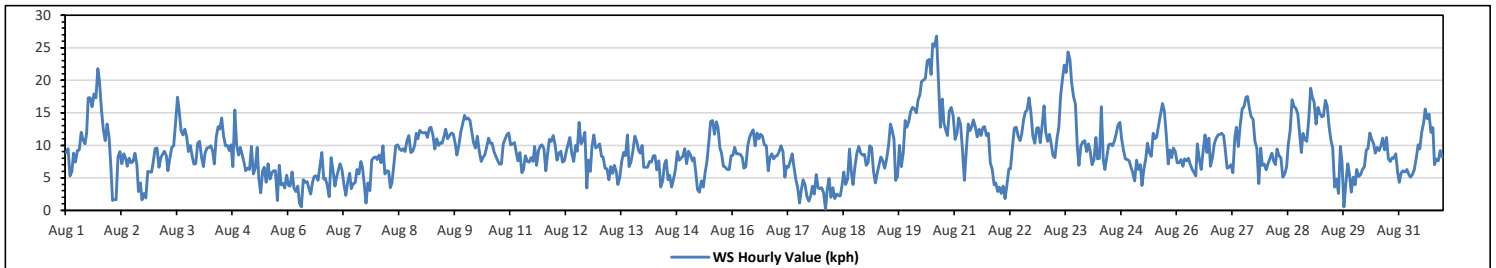


Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages
VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:		26.8	kph	on Aug 20 at hr 14	Hours in Service:		744																																				
Maximum Daily Value:		18.1	kph	on Aug 20	Hours of Data:		744																																				
Minimum Hourly Value:		0.2	kph	on Aug 18 at hr 2	Hours of Missing Data:		0																																				
Minimum Daily Value:		4.3	kph	on Aug 6	Hours of Calibration:		0																																				
Monthly Average:		2.9	kph		Operational Uptime:		100.0																																				
Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)													10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average			
Aug 1	8.9	9.5	5.3	6.0	8.8	7.4	9.2	9.3	12.0	10.8	10.2	11.9	17.3	17.3	15.9	17.9	17.3	21.8	19.9	15.7	12.5	10.7	13.3	11.3								5.3	21.8	12.5									
Aug 2	6.5	1.5	1.7	1.6	8.2	9.0	7.2	8.7	8.0	6.8	8.0	7.3	7.5	8.8	7.0	2.9	4.2	1.6	2.6	1.9	6.0	5.9	5.9	7.4							1.5	9.0	5.7										
Aug 3	9.5	9.6	6.6	8.1	8.7	9.1	8.4	6.1	8.0	9.7	9.9	13.5	17.4	15.4	12.3	11.6	12.5	11.2	9.0	10.0	8.3	7.1	7.2	10.3							6.1	17.4	10.0										
Aug 4	10.6	8.2	6.7	8.8	9.6	9.7	9.9	9.0	7.1	11.3	12.9	12.5	14.2	11.4	9.9	10.0	9.2	10.1	6.7	15.4	9.9	8.5	9.7	8.6							6.7	15.4	10.0										
Aug 5	7.3	6.1	6.5	6.3	9.8	5.6	6.5	9.7	4.9	2.7	6.1	6.6	4.3	7.2	4.8	5.8	6.1	6.1	1.5	6.9	3.9	4.1	3.4	5.4							1.5	9.8	5.7										
Aug 6	3.8	3.7	5.9	3.4	2.9	3.7	1.1	0.5	4.7	4.3	4.4	3.3	2.5	4.3	5.2	5.3	4.6	6.7	8.9	4.8	4.9	3.8	2.1	8.1							0.5	8.9	4.3										
Aug 7	6.1	3.7	5.1	6.2	7.2	6.2	4.0	2.3	4.4	5.7	3.3	4.1	4.2	6.3	5.6	7.5	6.6	3.8	1.1	4.2	3.0	7.7	8.1	8.2							1.1	8.2	5.2										
Aug 8	7.8	8.5	7.3	9.9	5.6	6.1	6.0	3.5	4.2	7.0	9.9	10.1	9.4	9.2	9.5	9.0	10.7	11.5	8.9	9.1	10.0	11.8	11.0	12.3							3.5	12.3	8.7										
Aug 9	12.0	11.9	12.0	11.2	12.6	12.8	11.6	9.4	11.0	10.0	10.4	10.3	11.4	12.5	11.0	11.5	11.9	11.7	10.2	8.5	9.9	12.0	13.3	14.6							8.5	14.6	11.4										
Aug 10	14.0	14.2	13.8	12.2	10.4	9.6	11.4	9.1	7.5	8.1	8.5	9.7	11.1	10.3	10.3	9.0	8.3	7.7	7.1	7.1	10.2	11.0	11.7	11.9							7.1	14.2	10.2										
Aug 11	10.1	10.2	10.4	9.0	7.6	8.9	5.8	6.2	8.4	7.5	7.4	8.1	7.5	9.8	6.9	9.2	9.9	10.1	9.5	6.1	8.9	10.9	10.6	11.5							5.8	11.5	8.8										
Aug 12	10.1	7.7	8.8	9.1	7.4	7.6	9.1	10.1	11.2	8.8	7.5	10.0	9.1	13.5	10.2	10.8	12.0	3.4	7.7	6.0	9.7	11.6	9.6	9.8							3.4	13.5	9.2										
Aug 13	10.2	8.3	8.2	6.5	6.4	4.7	6.7	5.7	6.9	6.0	4.0	5.0	7.5	8.9	8.4	11.6	6.7	7.4	9.1	11.4	10.6	9.2	8.8	10.0							4.0	11.6	7.8										
Aug 14	6.6	6.6	6.6	7.5	7.4	8.4	8.4	6.2	7.6	3.6	4.5	7.1	7.7	4.7	5.4	3.6	4.8	6.3	9.0	7.7	8.0	8.3	9.5	7.2							3.6	9.5	6.8										
Aug 15	9.1	8.5	7.6	8.1	6.1	3.2	2.8	4.5	3.6	5.9	7.3	10.3	13.7	13.8	11.7	13.6	12.7	9.6	8.8	6.8	6.6	6.3	6.3	8.4							2.8	13.8	8.1										
Aug 16	8.5	9.7	8.7	8.7	8.6	8.1	6.5	6.7	9.9	11.1	11.9	12.4	9.9	11.9	11.0	11.7	11.4	10.1	9.9	6.1	8.1	8.7	7.9	8.3							6.1	12.4	9.4										
Aug 17	8.4	9.0	9.9	9.0	5.1	6.8	6.6	7.6	8.7	6.8	4.8	3.5	1.1	3.0	4.7	3.9	2.1	1.4	2.3	3.7	2.5	5.5	3.4	3.3							1.1	9.9	5.1										
Aug 18	3.5	2.7	0.2	3.1	4.9	2.0	3.5	1.8	2.5	2.3	2.2	3.9	5.9	4.0	4.8	9.4	5.7	4.0	6.8	8.8	9.8	8.8	8.5	8.6	0.2						9.8	4.9											
Aug 19	6.9	7.3	9.9	9.7	6.0	4.2	5.8	7.2	8.2	7.6	6.5	7.9	10.0	13.3	12.4	10.9	4.6	5.2	10.0	6.7	8.9	13.8	12.8	13.6							4.2	13.8	8.7										
Aug 20	15.2	15.8	15.6	15.0	16.9	17.8	19.8	20.0	20.3	23.0	23.2	20.9	25.6	25.2	26.8	19.8	12.8	17.1	13.4	12.3	11.5	15.3	15.8	14.5	11.5						11.5	26.8	18.1										
Aug 21	10.9	11.9	14.2	13.2	9.3	4.6	9.3	13.3	12.2	12.9	13.9	12.9	11.3	12.5	11.5	12.8	12.9	11.5	11.8	7.3	6.3	3.9	4.2	2.9	2.9						2.9	14.2	10.3										
Aug 22	3.6	2.6	3.7	1.8	3.9	6.4	6.4	9.7	12.6	12.8	11.4	10.7	11.7	13.9	15.1	15.4	17.3	15.0	11.4	10.3	12.6	12.7	10.4	13.1							1.8	17.3	10.2										
Aug 23	16.1	12.1	10.6	11.7	10.0	8.4	8.1	10.9	12.7	17.8	20.4	22.3	21.2	24.3	23.1	19.7	17.5	16.3	9.7	6.9	9.9	10.5	10.7	9.0							6.9	24.3	14.2										
Aug 24	10.2	9.1	7.0	7.8	11.2	7.9	8.0	15.9	7.7	6.3	8.2	10.1	10.2	9.9	10.7	11.7	13.1	13.5	11.1	9.3	7.9	7.8	7.6	6.7							6.3	15.9	9.5										
Aug 25	5.8	4.5	7.7	6.3	7.0	3.8	6.4	8.0	10.3	8.9	8.3	11.8	11.0	11.3	13.1	14.8	16.4	15.2	11.5	7.1	9.3	8.1	9.6	9.0							3.8	16.4	9.4										
Aug 26	7.3	7.3	7.8	6.8	7.9	7.6	8.0	7.0	6.3	5.8	5.3	10.2	7.9	6.3	9.1	11.6	8.9	11.1	6.8	8.1	10.2	11.1	11.6	11.7							5.3	11.7	8.4										
Aug 27	11.8	11.5	9.4	6.5	6.6	7.0	5.8	11.1	12.8	9.8	13.1	15.6	16.0	17.4	17.5	15.6	14.4	14.0	10.6	9.5	4.1	9.6	6.9	7.1							4.1	17.5	11.0										
Aug 28	6.2	7.2	8.0	8.8	7.6	7.0	9.4	8.4	8.1	5.1	5.6	6.7	10.1	12.3	17.0	16.0	15.7	14.8	12.1	8.9	11.8	10.9	10.6	13.9							5.1	17.0	10.1										
Aug 29	18.8	17.3	16.6	13.3	15.8	14.9	14.4	14.5	16.9	16.0	13.1	10.9	9.6	3.6	4.8	2.6	9.8	7.4	0.5	4.1	7.2	5.7	2.8	5.1							0.5	18.8	10.2										
Aug 30	3.9	6.3	5.2	5.5	6.3	6.7	9.3	9.5	11.9	10.9	10.2	8.8	9.7	9.2	10.0	11.1	9.3	11.2	7.9	7.5	8.1	8.0	8.7	5.8							3.9	11.9	8.4										
Aug 31	4.3	5.8	6.1	5.9	6.3	5.6	5.1	5.5	6.3	8.0	10.1	9.4	12.0	13.4	15.6	14.1	14.8	12.0	12.7	7.0	7.9	7.6	9.2	8.2							4.3	15.6	8.9										
Diurnal Maximum	18.8	17.3	16.6	15.0	16.9	17.8	19.8	20.0	20.3	23.0	23.2	22.3	25.6	25.2	26.8	19.8	17.5	21.8	19.9	15.7	12.6	15.3	15.8	14.6																			
Diurnal Average	8.8	8.3	8.2	8.0	8.1	7.4	7.8	8.3	8.9	8.8	9.1	9.9	10.6	11.1	11.0	11.0	10.5	10.0	8.7	7.9	8.3	8.9	8.7	9.2																			
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance																				
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance										P	Power Failure									
X	Invalid Data (Equipment Malfunction/Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																															
Daily Average is shown ^{12.5} if minimum data completeness criteria of 75% or 18 hours per day is not met.																																											
Monthly Average is shown ^{12.5} if minimum data completeness criteria of 75% of days per month is not met.																																											

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

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

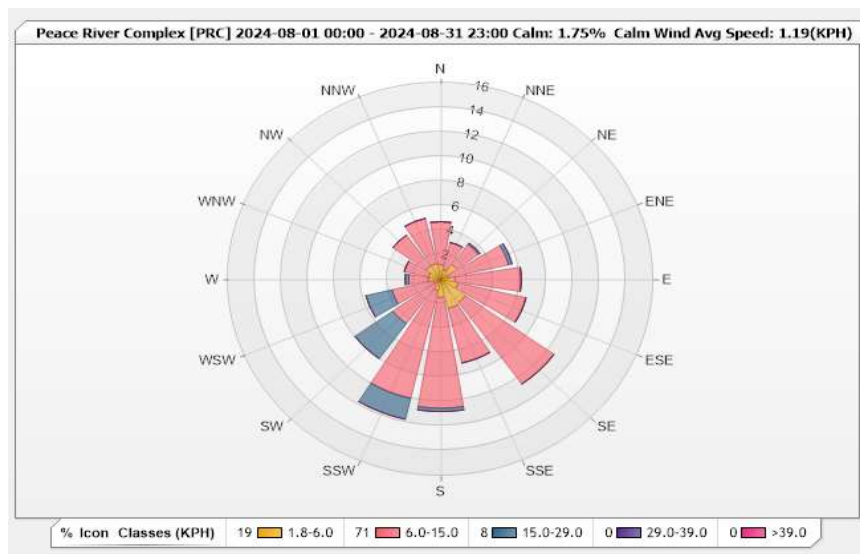


Station: Peace River Complex [PRC] Monitor: WDS [KPH] Monthly: 08-2024

Type: Wind Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm (WS<1.8kph): 1.75% Valid Data: 100.00%

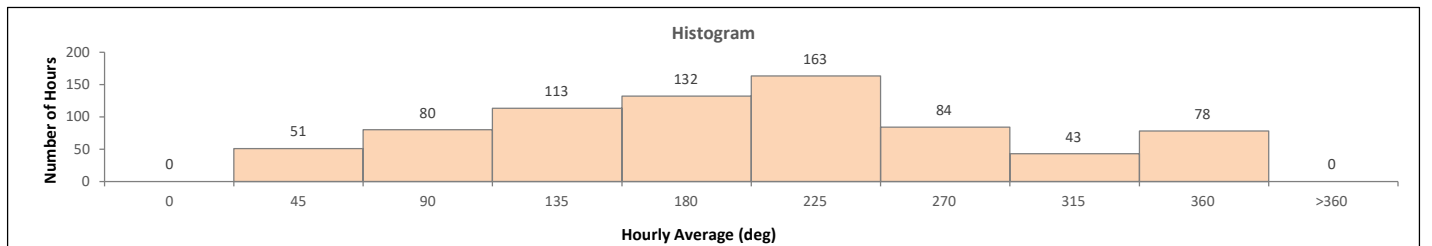
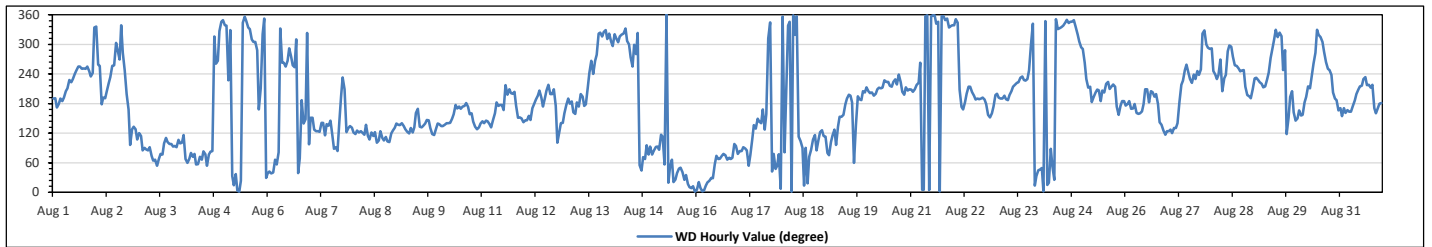
Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.21	3.49	0	0	0	4.7
NNE	0.81	2.28	0	0	0	3.09
NE	1.48	2.02	0.13	0	0	3.63
ENE	0.54	4.7	0.27	0	0	5.51
E	1.08	4.97	0	0	0	6.05
ESE	1.34	5.24	0	0	0	6.58
SE	2.28	8.2	0	0	0	10.48
SSE	2.42	4.57	0	0	0	6.99
S	1.48	9.01	0.27	0	0	10.76
SSW	0.94	9.01	1.75	0	0	11.7
SW	0	4.44	3.49	0	0	7.93
WSW	0.54	3.23	2.02	0	0	5.79
W	0.94	1.48	0.27	0	0	2.69
WNW	0.94	1.88	0	0	0	2.82
NW	1.34	3.09	0	0	0	4.43
NNW	1.34	3.76	0	0	0	5.1
Summary	18.68	71.37	8.2	0	0	98.25



Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:										183 (S) degree										Hours in Service:										744	
																				Hours of Data:										744	
																				Hours of Missing Data:										0	
																				Hours of Calibration:										0	
																				Operational Uptime:										100.0	
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Average						
																									Degree	Quadrant					
Aug 1	S	SW	S	S	S	S	S	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	NNW	235	SW					
Aug 2	NNW	WSW	WSW	S	S	S	SSW	SW	SW	WSW	WSW	WNW	WNW	W	NNW	W	WSW	SSW	SSE	E	SE	SE	SE	ESE	230	SW					
Aug 3	ESE	ESE	E	E	E	E	E	ENE	ENE	ENE	NE	ENE	ENE	ENE	E	ESE	E	E	E	E	E	ESE	E	89	E						
Aug 4	E	ESE	ENE	ENE	ENE	E	ENE	ENE	NE	NE	ENE	ENE	ENE	E	ENE	NE	ENE	E	NW	W	W	NW	NNW	NNW	61	ENE					
Aug 5	NNW	NNW	SW	NNW	NNE	NNE	NE	N	N	NNE	NNW	N	NNW	NNW	NNW	NNW	WNW	WNW	SSE	SSW	NW	N	NNE	344	NNW						
Aug 6	NE	NE	NE	NE	ENE	NE	E	NNW	W	W	WSW	W	WNW	W	WSW	WSW	NW	NE	ENE	S	SE	SE	NW	E	17	NNE					
Aug 7	SSE	SSE	SE	ESE	ESE	ESE	SE	SE	ESE	SE	SE	ESE	E	E	E	SE	S	SW	SSW	ESE	SE	SE	SE	SE	130	SE					
Aug 8	ESE	ESE	SE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	E	ESE	SE	SE	116	ESE					
Aug 9	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	SE	ESE	SE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	SE	SE	135	SE				
Aug 10	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	S	SSE	S	SSE	S	S	S	S	SSE	SSE	SE	SE	SE	SE	SE	SE	150	SSE				
Aug 11	SE	SE	SE	SE	SE	SE	SE	SSE	S	S	S	S	SSE	SW	SSW	SSW	SSW	SSW	SSW	S	SSE	SSE	SSE	SE	SE	167	SSE				
Aug 12	SE	SE	SSE	SE	S	S	S	SSW	SSW	S	S	S	SSW	SW	SSW	SSW	SSW	S	E	ESE	SE	SE	SSE	S	176	S					
Aug 13	S	S	S	SSE	SSE	S	S	SSW	SSW	S	S	SSW	WSW	W	WSW	W	W	NW	NW	NW	NW	NNW	NW	NW	249	WSW					
Aug 14	NW	WNW	NW	NW	WNW	NW	NW	NW	NNW	NW	WNW	W	WSW	WNW	W	NW	NE	NE	ENE	E	ENE	E	ENE	E	342	NNW					
Aug 15	E	E	E	E	ESE	ESE	NE	N	NNE	NE	ENE	NNE	NNE	NE	NE	NE	NE	NNE	NE	NNE	N	NNE	N	44	NE						
Aug 16	N	NNE	N	N	NNE	NNE	NNE	NNE	NNE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	ENE	52	NE						
Aug 17	E	E	E	E	E	NE	ENE	ESE	SE	SE	SSE	SE	SE	SSE	SE	SSE	NW	NNW	NE	ENE	NE	ENE	N	95	E						
Aug 18	N	E	SSW	NNW	NNW	N	N	NW	N	ESE	ESE	E	NNE	E	NNE	ENE	E	ESE	ESE	E	ESE	ESE	SE	ESE	80	E					
Aug 19	ESE	E	ENE	E	ESE	SE	E	SE	SSE	SSE	S	S	SSW	SSW	S	ENE	SE	SSW	S	S	SSW	SSW	SSW	SSW	166	SSE					
Aug 20	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SSW	SW	SW	WSW	SW	SSW	SSW	SSW	SSW	SSW	214	SSW					
Aug 21	SSW	SSW	SSW	SW	SW	W	N	N	N	N	N	N	N	N	NNW	NNW	N	N	NNW	N	NNW	NNW	NNW	NNW	339	NNW					
Aug 22	NNW	N	NNW	SSW	S	SSE	S	SSW	SSW	SSW	SSW	SSW	S	S	S	S	S	S	S	SSE	SSE	SSE	S	SSW	188	S					
Aug 23	SSW	S	S	S	SSW	S	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WNW	NNW	NNE	NNE	NE	220	SW					
Aug 24	NE	NE	N	NNW	NNE	NNE	E	NE	NNE	N	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	WNW	356	N					
Aug 25	WNW	W	SW	SSW	SSW	S	S	SSW	SSW	SSW	S	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	S	SSE	S	S	S	206	SSW					
Aug 26	S	S	S	SSE	SSE	S	SSE	SSE	SSE	SSE	S	SSW	SSW	S	SSW	SSW	SSW	SSW	S	SE	SE	SE	ESE	ESE	170	SSE					
Aug 27	ESE	SE	ESE	SE	SE	SE	S	SW	SW	WSW	WSW	WSW	SW	SW	WSW	SW	WSW	SW	WSW	NW	NNW	NNW	NNW	230	SW						
Aug 28	WNW	WSW	WSW	SW	SW	W	SSW	SW	SW	WNW	WNW	WNW	W	WSW	WSW	WSW	WSW	WSW	WSW	SSW	S	SSW	SSW	240	WSW						
Aug 29	SW	SW	SW	SW	SW	SSW	SSW	SW	WSW	W	WNW	NW	NNW	NW	NW	NW	WSW	WNW	ESE	SSE	S	SSW	SSE	SE	241	WSW					
Aug 30	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SW	W	W	NNW	NW	NW	NNW	NNW	W	WSW	WSW	SW	SSW	S	S	SSE	239	WSW					
Aug 31	S	SSE	S	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SSW	SSW	S	SSE	S	S	198	SSW					
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance														
K	Collection Error							ND	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.																															



Peace River Area Monitoring Program
Peace River Complex (PRC) Station - August 2024
Summary of Hourly Averages

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

WIND SPEED																																								
Maximum Hourly Value:				26.8 kph on Aug 20 at hr 14										Hours in Service:				744																						
Maximum Daily Value:				18.1 kph on Aug 20										Hours of Data:				744																						
Minimum Hourly Value:				0.2 kph on Aug 18 at hr 2										Hours of Missing Data:				0																						
Minimum Daily Value:				4.3 kph on Aug 6										Hours of Calibration:				0																						
Monthly Average:				2.9 kph										Operational Uptime:				100.0																						
WIND DIRECTION																																								
Monthly Average:				183 degree (S)																																				
Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)													10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 1	8.9	9.5	5.3	6.0	8.8	7.4	9.2	9.3	12.0	10.8	10.2	11.9	17.3	17.3	15.9	17.9	17.3	21.8	19.9	15.7	12.5	10.7	13.3	11.3	5.3	21.8	12.5	10.7	13.3	11.3	5.3	21.8	12.5							
	S	S	S	S	S	S	S	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	NNW									235(SW)							
Aug 2	6.5	1.5	1.7	1.6	8.2	9.0	7.2	8.7	8.0	6.8	8.0	7.3	7.5	8.8	7.0	2.9	4.2	1.6	2.6	1.9	6.0	5.9	5.9	7.4	1.5	9.0	5.7	10.0	10.0	5.7	9.0	5.7								
	NNW	WSW	WSW	S	S	S	SSW	SW	SW	WSW	WSW	NNW	NNW	W	NNW	W	WSW	SSW	SSE	E	SE	SE	ESE									230(SW)								
Aug 3	9.5	9.6	6.6	8.1	8.7	9.1	8.4	6.1	8.0	9.7	9.9	13.5	17.4	15.4	12.3	11.6	12.5	11.2	9.0	10.0	8.3	7.1	7.2	10.3	6.1	17.4	10.0	8.7	10.3	8.7	17.4	10.0								
	ESE	ESE	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	ESE	E	E	E	E	E	E	ESE	E								89(E)								
Aug 4	10.6	8.2	6.7	8.8	9.6	9.7	9.9	9.0	7.1	11.3	12.9	12.5	14.2	11.4	9.9	10.0	9.2	10.1	6.7	15.4	9.9	8.5	9.7	8.6	6.7	15.4	10.0	8.6	10.3	8.6	15.4	10.0								
	E	ESE	ENE	ENE	ENE	E	ENE	ENE	NE	ENE	ENE	ENE	E	ENE	NE	ENE	E	E	NW	W	W	NW	NNW	NNW								61(ENE)								
Aug 5	7.3	6.1	6.5	6.3	9.8	5.6	6.5	9.7	4.9	2.7	6.1	6.6	4.3	7.2	4.8	5.8	6.1	6.1	1.5	6.9	3.9	4.1	3.4	5.4	1.5	9.8	5.7	10.0	10.0	5.7	9.8	5.7								
	NNW	NNW	SW	NNW	NNE	NNE	NE	N	N	NNE	NNW	N	NNW	NNW	NNW	NW	NNW	NNW	SSE	SSW	NW	N	NNE									344(NNW)								
Aug 6	3.8	3.7	5.9	3.4	2.9	3.7	1.1	0.5	4.7	4.3	4.4	3.3	2.5	4.3	5.2	5.3	4.6	6.7	8.9	4.8	4.9	3.8	2.1	8.1	0.5	8.9	4.3	10.0	10.0	4.3	8.9	4.3								
	NE	NE	NE	NE	ENE	NE	E	NNW	W	W	WSW	W	NNW	W	WSW	WSW	NW	NE	ENE	S	SE	SE	NW	E								17(NNE)								
Aug 7	6.1	3.7	5.1	6.2	7.2	6.2	4.0	2.3	4.4	5.7	3.3	4.1	4.2	6.3	5.6	7.5	6.6	3.8	1.1	4.2	3.0	7.7	8.1	8.2	1.1	8.2	5.2	10.0	10.0	5.2	8.2	5.2								
	SSE	SSE	SE	ESE	ESE	ESE	SE	SE	ESE	SE	SE	SE	ESE	E	E	E	SE	S	SW	SSW	ESE	SE	SE									130(SE)								
Aug 8	7.8	8.5	7.3	9.9	5.6	6.1	6.0	3.5	4.2	7.0	9.9	10.1	9.4	9.2	9.5	9.0	10.7	11.5	8.9	9.1	10.0	11.8	11.0	12.3	3.5	12.3	8.7	10.0	10.0	8.7	12.3	8.7								
	ESE	ESE	SE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	E	ESE	SE	SE								116(ESE)								
Aug 9	12.0	11.9	12.0	11.2	12.6	12.8	11.6	9.4	11.0	10.0	10.4	10.3	11.4	12.5	11.0	11.5	11.9	11.7	10.2	8.5	9.9	12.0	13.3	14.6	8.5	14.6	11.4	10.0	10.0	11.4	14.6	11.4								
	SE	SE	SE	SE	SE	SE	ESE	ESE	SE	ESE	SE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	SE	SE								135(SE)								
Aug 10	14.0	14.2	13.8	12.2	10.4	9.6	11.4	9.1	7.5	8.1	8.5	9.7	11.1	10.3	10.3	9.0	8.3	7.7	7.1	7.1	10.2	11.0	11.7	11.9	7.1	14.2	10.2	10.0	10.0	10.2	14.2	10.2								
	SE	SE	SE	SE	SE	SE	SSE	SSE	S	SSE	S	SSE	S	S	S	S	SSE	SSE	SE	SE	SE	SE	SE	SE								150(SSE)								
Aug 11	10.1	10.2	10.4	9.0	7.6	8.9	5.8	6.2	8.4	7.5	7.4	8.1	7.5	9.8	6.9	9.2	9.9	10.1	9.5	6.1	8.9	10.9	10.6	11.5	5.8	11.5	8.8	10.0	10.0	8.8	11.5	8.8								
	SE	SE	SE	SE	SE	SE	SE	SSE	S	S	S	SSE	SW	SSW	SSW	SSW	SSW	SSW	S	SSE	SSE	SSE	SE									167(SSE)								
Aug 12	10.1	7.7	8.8	9.1	7.4	7.6	9.1	10.1	11.2	8.8	7.5	10.0	9.1	13.5	10.2	10.8	12.0	3.4	7.7	6.0	9.7	11.6	9.6	9.8	3.4	13.5	9.2	10.0	10.0	9.2	13.5	9.2								
	SE	SE	SSE	SE	S	S	S	SSW	SSW	S	S	S	SSW	SW	SSW	SSW	SSW	S	E	ESE	SE	SE	S									176(S)								
Aug 13	10.2	8.3	8.2	6.5	6.4	4.7	6.7	5.7	6.9	6.0	4.0	5.0	7.5	8.9	8.4	11.6	6.7	7.4	9.1	11.4	10.6	9.2	8.8	10.0	4.0	11.6	7.8	10.0	10.0	7.8	11.6	7.8								
	S	S	S	SSE	SSE	S	S	SSW	SSW	S	S	SSW	WSW	W	WSW	W	NW	NW	NW	NW	NNW	NNW	NW	NW								249(WSW)								
Aug 14	6.6	6.6	6.6	7.5	7.4	8.4	8.4	6.2	7.6	3.6	4.5	7.1	7.7	4.7	5.4	3.6	4.8	6.3	9.0	7.7	8.0	8.3	9.5	7.2	3.6	9.5	6.8	10.0	10.0	6.8	9.5	6.8								
	NW	NNW	NW	NNW	NNW	NW	NW	NNW	NNW	NW	NNW	NW	WSW	NNW	W	NW	NE	NE	ENE	E	ENE	E	ENE	E								342(NNW)								
Aug 15	9.1	8.5	7.6	8.1	6.1	3.2	2.8	4.5	3.6	5.9	7.3	10.3	13.7	13.8	11.7	13.6	12.7	9.6	8.8	6.8	6.6	6.3	6.3	8.4	2.8	13.8	8.1	10.0	10.0	8.1	13.8	8.1								
	E	E	E	E	ESE	ESE	NE	N	NNE	NE	ENE	NNE	NNE	NE	NE	NE	NE	NNE	NE	NNE	N	N	NNE	N								44(NE)								
Aug 16	8.5	9.7	8.7	8.7	8.6	8.1	6.5	6.7	9.9	11.1	11.9	12.4	9.9	11.9	11.0	11.7	11.4	10.1	9.9	6.1	8.1	8.7	7.9	8.3	6.1	12.4	9.4	10.0	10.0	9.4	12.4	9.4								
	N	NNE	N	N	N	NNE	NNE	NNE	NNE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	ENE									52(NE)								
Aug 17	8.4	9.0	9.9	9.0	5.1	6.8	6.6	7.6	8.7	6.8	4.8	3.5	1.1	3.0	4.7	3.9	2.1	1.4	2.3	3.7	2.5	5.5	3.4	3.3	1.1	9.9	5.1	10.0	10.0	5.1	9.9	5.1								
	E	E	E	E	E	NE	ENE	ESE	SE	SE	SSE	SE	SE	SSE	SE	SSE	NW	NNW	NE	ENE	NE	NE	ENE	N								95(E)								
Aug 18	3.5	2.7	0.2	3.1	4.9	2.0	3.5	1.8	2.5	2.3	2.2	3.9	5.9	4.0	4.8	9.4	5.7	4.0	6.8	8.8	9.8	8.8	8.5	8.6	0.2	9.8	4.9	10.0	10.0	4.9	9.8	4.9								
	N	E	SSW	NNW	NNW	N	N	NW	N	ESE	ESE	E	NNE	E	NNE	ENE	E	ESE	ESE	E	ESE	ESE	SE	ESE								80(E)								
Aug 19	6.9	7.3	9.9	9.7	6.0	4.2	5.8	7.2	8.2	7.6	6.5	7.9	10.0	13.3	12.4	10.9	4.6	5.2	10.0	6.7	8.9	13.8	12.8	13.6	4.2	13.8	8.7	10.0	10.0	8.7	13.8	8.7								
	ESE	E	ENE	E	ESE	E	SE	SSE	SSE	SSE	S	S	SSW	SSW	S	ENE	SE	SSW	S	S	SSW	SSW	SSW									166(SSE)								
Aug 20	15.2	15.8	15.6	15.0	16.9	17.8	19.8	20.0	20.3	23.0	23.2	20.9	25.6	25.2	26.8	19.8	12.8	17.1	13.4	12.3	11.5	15.3	15.8	14.5	11.5	26.8	18.1	10.0	10.0	18.1	26.8	18.1								
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SW	SW	SSW	SW	SW	WSW	SSW	SSW	SSW	SSW	SSW	SSW								214(SSW)								
Aug 21	10.9	11.9	14.2	13.2	9.3	4.6	9.3	13.3	12.2	12.9	13.9	12.9	11.3	12.5	11.5	12.8	12.9	11.5	11.8	7.3	6.3	3.9	4.2	2.9	2.9	14.2	10.3	10.0	10.0	10.3	14.2	10.3								
	SSW	SSW	SSW	SW	SW	W	N	N	N	N	N	N	N	N	NNW	NNW	N	N	NNW	N	NNW	NNW	NNW	NNW								339(NNW)								
Aug 22	3.6	2.6	3.7	1.8	3.9	6.4	6.4	9.7	12.6	12.8	11.4	10.7	11.7	13.9	15.1	15.4	17.3	15.0	11.4	10.3	12.6	12.7	10.4	13.1	1.8	17.3	10.2	10.0	10.0	10.2	17.3	10.2								
	NNW	N	NNW	SSW	S	SSE	S	SSW	SSW	SSW	SSW	SSW	S	S	S	S	S	S	SSE	SSE	S	SSW										188(S)								
Aug 23	16.1	12.1	10.6	11.7	10.0	8.4	8.1	10.9	12.7	17.8	20.4	22.3	21.2	24.3	23.1	19.7	17.5	16.3	9.7	6.9	9.9	10.5	10.7	9.0	6.9	24.3	14.2	10.0	10.0	14.2	24.3	14.2								
	SSW	S	S	S	SSW	S	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	WSW	NNW	NNW	NNE	NNE	NE									220(SW)								
Aug 24	10.2	9.1	7.0	7.8	11.2	7.9	8.0	15.9	7.7	6.3	8.2	10.1	10.2	9.9	10.7	11.7	13.1	13.5	11.1	9.3	7.9	7.8	7.6	6.7	6.3	15.9	9.5	10.0	10.0	9.5	15.9	9.5								
	NE	NE	N	NNW	NNE	NNE	E	NE	NNE	N	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW																						

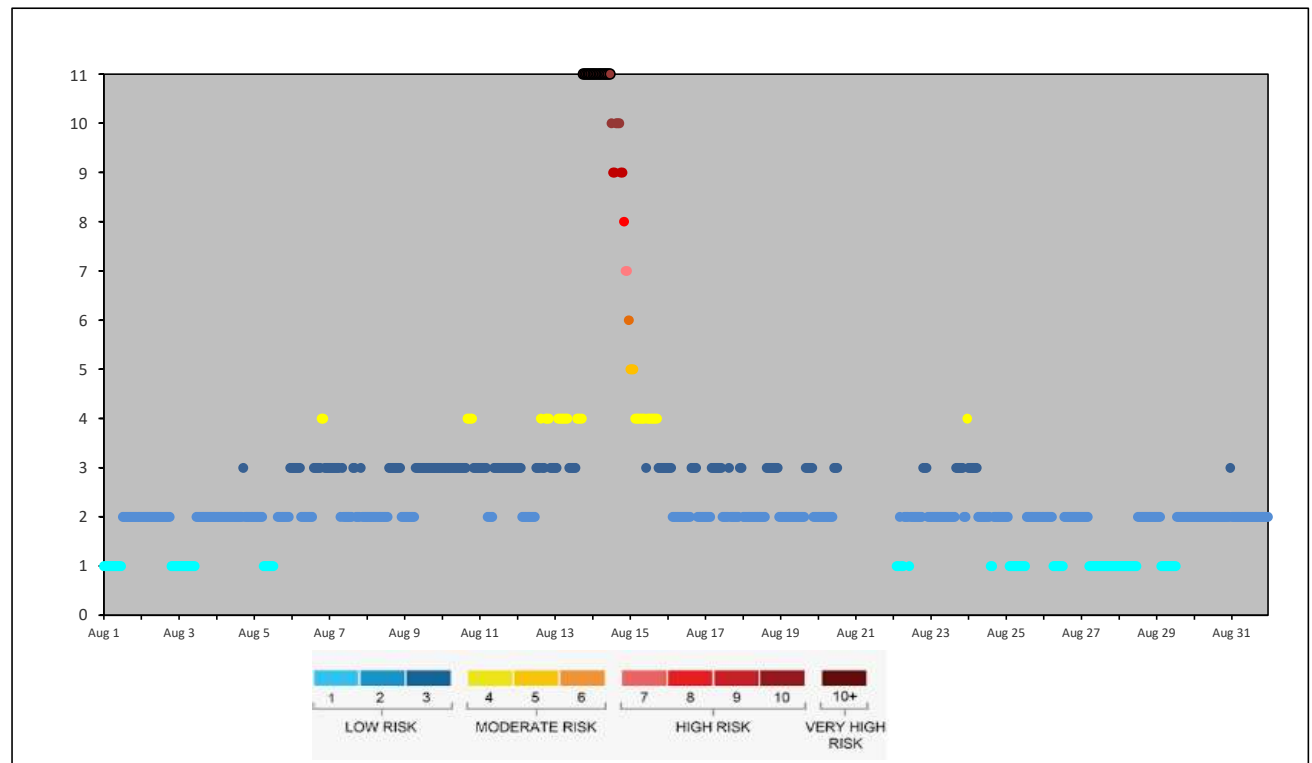
AQHI GRIMSHAW STATION

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION

AQHI - Grimshaw Station - August 2024

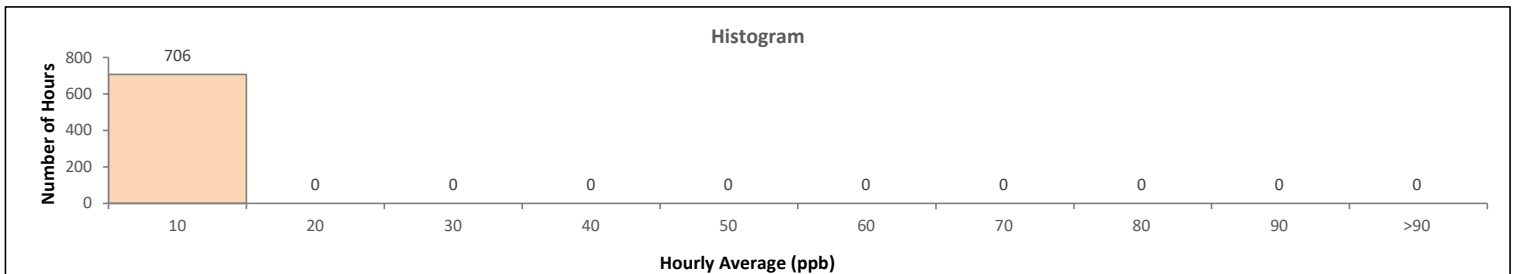
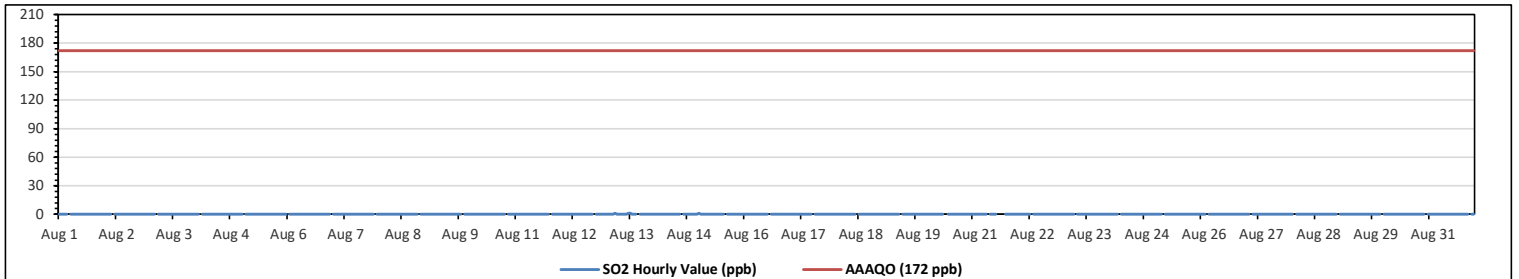
AIR QUALITY HEALTH INDEX

Day	Hourly Period Starting at (MST)																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Aug 1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
Aug 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1
Aug 3	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
Aug 4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2
Aug 5	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3
Aug 6	3	3	3	3	3	3	2	2	2	2	2	2	2	2	3	3	3	3	3	4	4	3	3	1
Aug 7	3	3	3	3	3	3	3	2	3	2	2	2	2	2	2	3	3	2	2	2	3	2	2	2
Aug 8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	2	2
Aug 9	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Aug 10	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	3	3	3	3
Aug 11	3	3	3	3	3	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Aug 12	3	3	3	2	2	2	2	2	2	2	2	2	3	3	3	4	4	3	3	4	4	4	3	3
Aug 13	3	3	4	4	4	4	4	4	4	4	3	3	3	3	4	4	4	4	4	10+	10+	10+	10+	10+
Aug 14	10+	10+	10+	10+	10+	10+	10+	10+	10+	10+	10+	10+	10	9	9	10	10	10	10	9	8	7	7	6
Aug 15	5	5	5	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	3	3	3	3	3
Aug 16	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	2
Aug 17	2	2	2	2	3	3	3	3	3	3	3	2	2	2	2	3	2	2	2	2	2	3	3	3
Aug 18	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	2
Aug 19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	2	2	2
Aug 20	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	2
Aug 21																								
Aug 22		1	1	2	1	1	2	2	2	2	1	2	2	2	2	2	2	2	2	3	3	3	2	2
Aug 23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	2	2	4
Aug 24	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2
Aug 25	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
Aug 26	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
Aug 27	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Aug 28	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
Aug 29	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
Aug 30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
Aug 31	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2



Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
SULPHUR DIOXIDE (SO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb																																			
Number of 1-Hour Exceedances:						0						Number of 24-Hour Exceedances:						0						30-Day Exceedence:						0					
Maximum Hourly Value:						1 ppb on Aug 13 at hr 4						Hours in Service:						744																	
Maximum Daily Value:						0.1 ppb on Aug 13						Hours of Data:						706																	
Minimum Hourly Value:						0 ppb on Aug 1 at hr 0						Hours of Missing Data:						1																	
Minimum Daily Value:						0.0 ppb on Aug 1						Hours of Calibration:						37																	
Monthly Average:						0.0 ppb						Operational Uptime:						99.9																	
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average								
Aug 1	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									
Aug 2	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									
Aug 3	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									
Aug 4	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									
Aug 5	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									
Aug 6	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									
Aug 7	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									
Aug 8	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									
Aug 9	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									
Aug 10	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									
Aug 11	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									
Aug 12	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									
Aug 13	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.1								
Aug 14	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									
Aug 15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.0									
Aug 16	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									
Aug 17	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									
Aug 18	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									
Aug 19	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									
Aug 20	0	0	0	0	0	0	0	0	0	S	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0									
Aug 21	0	0	0	0	0	0	0	0	S	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0.0									
Aug 22	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									
Aug 23	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									
Aug 24	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									
Aug 25	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									
Aug 26	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									
Aug 27	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									
Aug 28	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									
Aug 29	S	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									
Aug 30	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									
Aug 31	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									
Diurnal Maximum	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0									
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																		
K	Collection Error							ND	No Data (Machine Not in Service)							Y	Routine Maintenance																		
X	Invalid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)							P	Power Failure																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																			
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																			

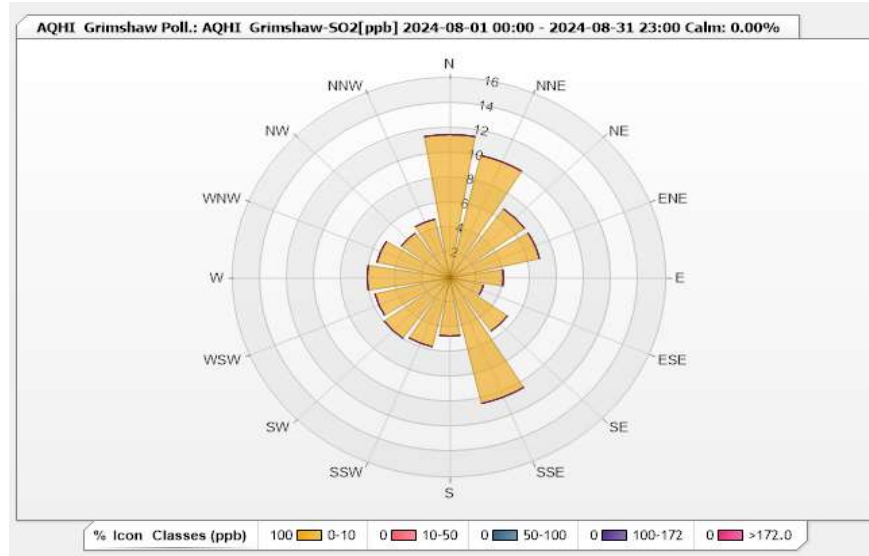


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	11.47	0	0	0	0	11.47
NNE	10.06	0	0	0	0	10.06
NE	6.8	0	0	0	0	6.8
ENE	6.8	0	0	0	0	6.8
E	3.97	0	0	0	0	3.97
ESE	2.55	0	0	0	0	2.55
SE	5.24	0	0	0	0	5.24
SSE	10.34	0	0	0	0	10.34
S	4.67	0	0	0	0	4.67
SSW	5.67	0	0	0	0	5.67
SW	5.95	0	0	0	0	5.95
WSW	5.67	0	0	0	0	5.67
W	6.09	0	0	0	0	6.09
WNW	5.52	0	0	0	0	5.52
NW	4.39	0	0	0	0	4.39
NNW	4.82	0	0	0	0	4.82
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - August 2024

Summary of Hourly Averages

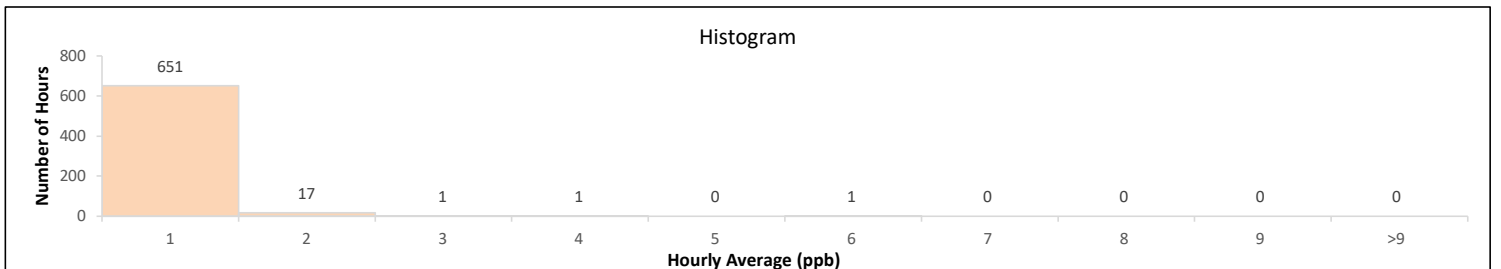
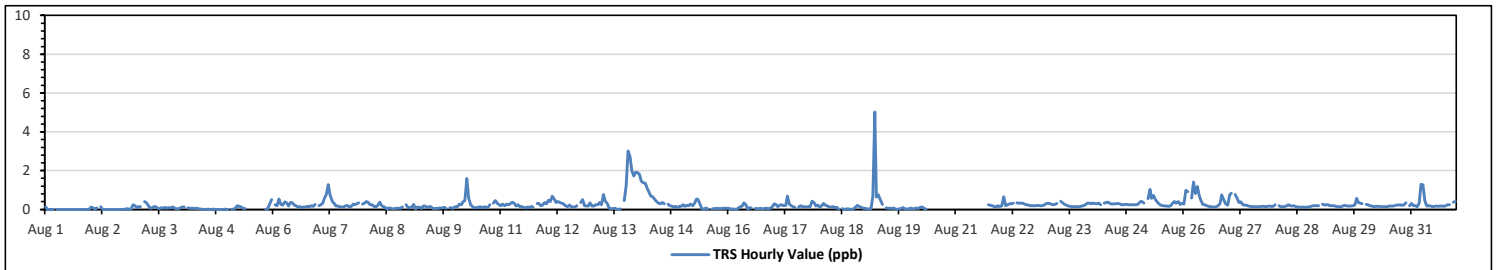
TOTAL REDUCED SULPHUR (TRS) in ppb

Maximum Hourly Value:	5.03	ppb	on Aug 19 at hr 5	Hours in Service:	744
Maximum Daily Value:	0.70	ppb	on Aug 13	Hours of Data:	671
Minimum Hourly Value:	0.00	ppb	on Aug 1 at hr 1	Hours of Missing Data:	35
Minimum Daily Value:	0.01	ppb	on Aug 1	Hours of Calibration:	38
Monthly Average:	0.24	ppb		Operational Uptime:	95.3

Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)													10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 1	0.12	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	0.02	0.00	0.12	0.01								
Aug 2	0.13	0.08	0.02	0.08	S	0.15	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.02	0.04	0.02	0.02	0.24	0.2	0.00	0.24	0.04												
Aug 3	0.09	0.15	0.14	S	0.4	0.35	0.22	0.07	0.08	0.15	0.14	0.07	0.04	0.09	0.07	0.1	0.05	0.09	0.08	0.12	0.05	0.03	0.04	0.08	0.03	0.40	0.12													
Aug 4	0.12	0.12	S	0.08	0.06	0.07	0.07	0.04	0.07	0.03	0.02	0.01	0	0.01	0.01	0	0.01	0.02	0	0	0	0.01	0.27	0.51	0.00	0.12	0.03													
Aug 5	0	S	0.02	0.02	0.08	0.18	0.16	0.12	0.05	0.04	X	X	X	X	X	X	X	X	X	X	0.02	0.01	0.27	0.51	0.00	0.51	NA													
Aug 6	S	0.24	0.2	0.54	0.26	0.22	0.39	0.34	0.17	0.35	0.34	0.22	0.2	0.13	0.15	0.09	0.13	0.12	0.16	0.14	0.2	0.16	0.26	S	0.09	0.54	0.23													
Aug 7	0.2	0.25	0.33	0.57	0.78	1.28	0.71	0.41	0.32	0.17	0.17	0.14	0.13	0.13	0.17	0.21	0.11	0.16	0.28	0.25	0.29	0.34	S	0.28	0.11	1.28	0.33													
Aug 8	0.33	0.42	0.36	0.23	0.25	0.16	0.12	0.2	0.37	0.18	0.14	0.1	0.02	0.08	0.05	0.03	0.04	0.05	0.06	0.07	0.13	S	0.24	0.11	0.02	0.42	0.16													
Aug 9	0.08	0.14	0.26	0.03	0.13	0.1	0.06	0.17	0.17	0.09	0.15	0.14	0.07	0.04	0.07	0.07	0.08	0.08	0.1	0.06	S	0.09	0.08	0.06	0.03	0.26	0.10													
Aug 10	0.14	0.15	0.27	0.25	0.39	0.46	1.59	0.57	0.23	0.15	0.08	0.09	0.1	0.15	0.08	0.13	0.13	0.09	0.23	S	0.33	0.45	0.32	0.24	0.08	1.59	0.29													
Aug 11	0.2	0.27	0.2	0.27	0.25	0.3	0.37	0.33	0.17	0.25	0.14	0.14	0.11	0.08	0.12	0.09	0.16	0.1	S	0.3	0.3	0.2	0.22	0.36	0.08	0.37	0.21													
Aug 12	0.29	0.47	0.41	0.68	0.54	0.35	0.4	0.36	0.33	0.29	0.19	0.15	0.22	0.15	0.13	0.13	0.19	S	0.36	0.5	0.19	0.17	0.17	0.34	0.13	0.68	0.30													
Aug 13	0.17	0.17	0.25	0.25	0.35	0.23	0.76	0.43	0.31	0.06	0.04	0.04	0.05	0.02	0.01	0.03	S	0.46	1.21	3.01	2.73	1.97	1.73	1.92	0.01	3.01	0.70													
Aug 14	1.89	1.8	1.46	1.38	1.34	1.08	0.9	0.68	0.65	0.52	0.42	0.33	0.29	0.36	0.29	S	0.28	0.2	0.17	0.13	0.16	0.09	0.16	0.16	0.09	1.89	0.64													
Aug 15	0.23	0.16	0.21	0.18	0.27	0.2	0.32	0.53	0.5	0.26	0.03	0.02	0.08	0.03	S	0.02	0.04	0.04	0.05	0.04	0.04	0.07	0.06	0.07	0.02	0.53	0.15													
Aug 16	0.05	0.03	0.03	0.02	0.02	0.07	0.15	0.16	0.34	0.25	0.02	0.09	0.08	S	0.06	0.03	0.04	0.05	0.02	0.06	0.06	0.04	0.06	0.14	0.02	0.34	0.08													
Aug 17	0.29	0.25	0.15	0.22	0.23	0.19	0.21	0.69	0.27	0.19	0.15	0.09	S	0.12	0.2	0.15	0.15	0.12	0.14	0.15	0.43	0.35	0.17	0.22	0.09	0.69	0.22													
Aug 18	0.11	0.2	0.31	0.21	0.18	0.13	0.12	0.14	0.08	0.11	0.01	S	0.04	0	0.03	0.03	0.01	0.02	0.04	0.15	0.21	0.15	0.1	0.05	0.00	0.31	0.11													
Aug 19	0.06	0.03	0.03	0.03	0.69	5.03	0.64	0.75	0.47	0.26	S	0.08	0.05	0.06	0.04	0.08	0.02	0.02	0.03	0.07	0.09	0.02	0.03	0.03	0.02	5.03	0.37													
Aug 20	0.08	0.01	0.04	0.08	0.04	0.1	0.12	0.06	0.02	S	Y	C	C	C	C	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0.01	0.12	NA									
Aug 21	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	0.24	0.21	0.2	0.15	0.13	0.19	0.15	0.13	0.24	NA												
Aug 22	0.18	0.66	0.19	0.24	0.29	0.29	0.33	S	0.34	0.33	0.32	0.32	0.28	0.24	0.22	0.2	0.19	0.19	0.2	0.21	0.2	0.2	0.21	0.28	0.18	0.66	0.27													
Aug 23	0.32	0.3	0.27	0.25	0.26	0.31	S	0.43	0.34	0.27	0.22	0.17	0.16	0.15	0.14	0.15	0.14	0.14	0.17	0.2	0.24	0.33	0.33	0.29	0.14	0.43	0.24													
Aug 24	0.33	0.3	0.29	0.32	0.25	S	0.33	0.36	0.37	0.31	0.28	0.29	0.29	0.31	0.29	0.24	0.25	0.26	0.26	0.24	0.24	0.23	0.25	0.25	0.23	0.37	0.28													
Aug 25	0.29	0.42	0.4	0.33	S	0.56	1.04	0.57	0.71	0.5	0.38	0.28	0.21	0.18	0.17	0.17	0.16	0.2	0.3	0.42	0.33	0.41	0.26	0.3	0.16	1.04	0.37													
Aug 26	0.28	0.98	0.92	S	0.58	1.41	0.82	1.18	0.7	0.48	0.26	0.24	0.2	0.16	0.14	0.13	0.12	0.15	0.2	0.31	0.75	0.47	0.27	0.22	0.12	1.41	0.48													
Aug 27	0.75	0.83	S	0.76	0.6	0.36	0.39	0.23	0.22	0.21	0.17	0.16	0.15	0.14	0.14	0.15	0.15	0.16	0.16	0.15	0.16	0.17	0.16	0.16	0.14	0.83	0.28													
Aug 28	0.23	S	0.2	0.15	0.15	0.15	0.17	0.23	0.19	0.17	0.18	0.14	0.13	0.12	0.11	0.12	0.11	0.13	0.13	0.16	0.18	0.18	0.19	0.18	0.11	0.23	0.16													
Aug 29	S	0.27	0.22	0.24	0.23	0.2	0.19	0.18	0.16	0.15	0.14	0.14	0.18	0.21	0.17	0.17	0.17	0.19	0.22	0.57	0.35	0.33	0.29	S	0.14	0.57	0.23													
Aug 30	0.26	0.23	0.19	0.17	0.15	0.16	0.16	0.16	0.15	0.15	0.14	0.13	0.17	0.17	0.17	0.18	0.22	0.22	0.24	0.21	0.25	0.34	S	0.2	0.13	0.34	0.19													
Aug 31	0.3	0.2	0.2	0.15	0.31	1.29	1.26	0.44	0.17	0.2	0.17	0.15	0.16	0.17	0.16	0.17	0.17	0.16	0.18	0.24	0.24	S	0.38	0.42	0.15	1.29	0.32													
Diurnal Maximum	1.89	1.80	1.46	1.38	1.34	5.03	1.59	1.18	0.71	0.52	0.42	0.33	0.29	0.36	0.29	0.24	0.28	0.46	1.21	3.01	2.73	1.97	1.73	1.92																
Diurnal Average	0.27	0.33	0.27	0.28	0.32	0.55	0.41	0.34	0.27	0.21	0.16	0.14	0.13	0.12	0.12	0.11	0.12	0.13	0.19	0.29	0.29	0.25	0.24	0.26																

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

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

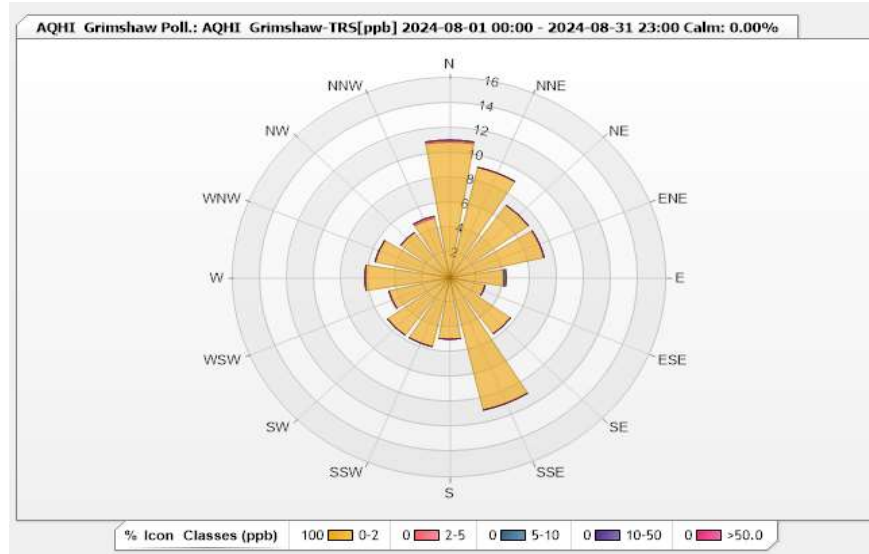


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

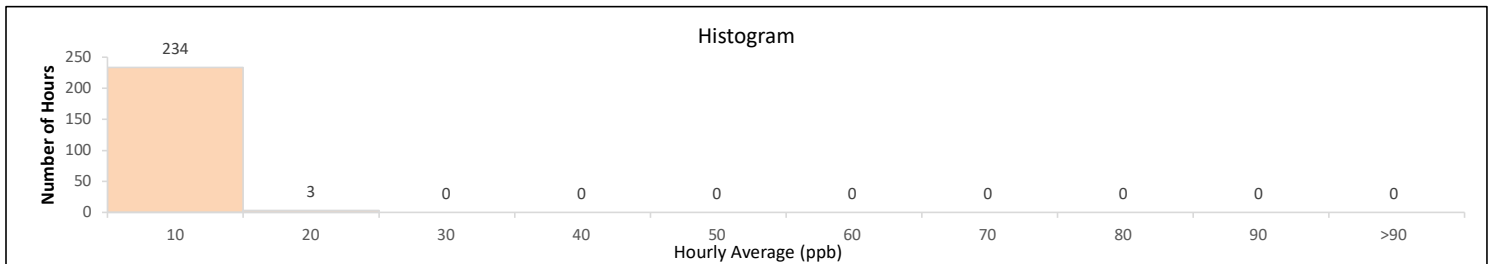
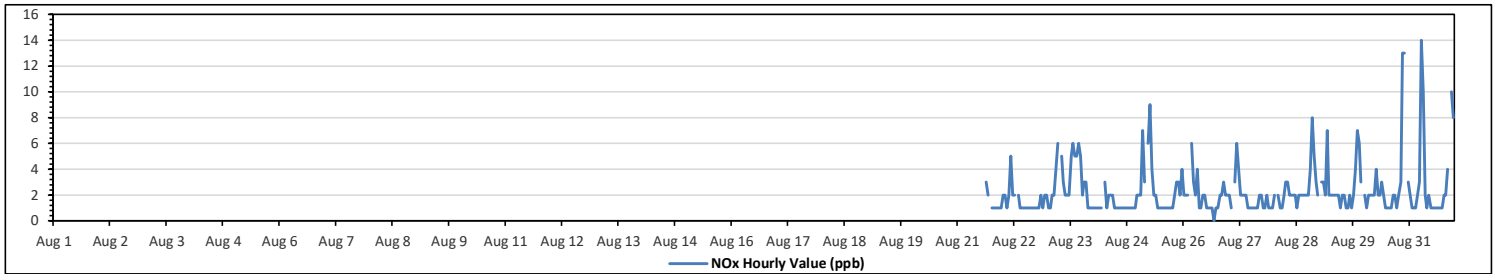
Calm: 0.00% Valid Data: 90.19% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	10.88	0.15	0	0	0	11.03
NNE	9.09	0	0	0	0	9.09
NE	7.15	0	0	0	0	7.15
ENE	7.15	0	0	0	0	7.15
E	4.02	0	0.15	0	0	4.17
ESE	2.68	0	0	0	0	2.68
SE	5.51	0	0	0	0	5.51
SSE	10.88	0	0	0	0	10.88
S	4.92	0	0	0	0	4.92
SSW	5.66	0	0	0	0	5.66
SW	5.66	0	0	0	0	5.66
WSW	4.62	0	0	0	0	4.62
W	6.26	0	0	0	0	6.26
WNW	5.66	0	0	0	0	5.66
NW	4.47	0	0	0	0	4.47
NNW	4.92	0.15	0	0	0	5.07
Summary	100	0.3	0.15	0	0	100



Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
OXIDES OF NITROGEN (NOx) in ppb

Maximum Hourly Value:	14	ppb	on Aug 31 at hr 6	Hours in Service:	744																																						
Maximum Daily Value:	3.2	ppb	on Aug 23	Hours of Data:	237																																						
Minimum Hourly Value:	0	ppb	on Aug 26 at hr 16	Hours of Missing Data:	491																																						
Minimum Daily Value:	1.3	ppb	on Aug 24	Hours of Calibration:	16																																						
Monthly Average:	NA	ppb		Operational Uptime:	34.0																																						
Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)													10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average			
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 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	X	X	X	X	X	X	-	-	-										
Aug 21	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	C	C	3	2	Y	1	1	1	1	1	1	1	1	1	1	1	3	NA											
Aug 22	2	2	1	2	5	2	2	S	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	1	5	1.6													
Aug 23	1	1	2	2	4	6	S	5	3	2	2	2	5	6	5	5	6	5	2	3	3	1	1	1	1	1	1	1	6	3.2													
Aug 24	1	1	1	1	1	S	3	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	3	1.3														
Aug 25	2	2	7	3	S	6	9	4	2	2	1	1	1	1	1	1	1	1	1	1	2	3	3	2	4	1	9	2.6															
Aug 26	2	2	2	S	6	3	2	4	1	1	2	2	1	1	1	1	0	1	1	1	2	2	3	2	2	0	6	1.9															
Aug 27	2	1	S	3	6	4	2	2	2	2	1	1	1	1	1	1	2	2	1	1	2	1	1	1	1	1	6	1.8															
Aug 28	2	S	2	1	1	2	3	3	2	2	2	2	1	2	2	2	2	2	2	4	8	5	3	2	1	8	2.5																
Aug 29	S	3	3	2	7	2	2	2	2	2	2	1	2	2	1	2	1	2	1	2	4	7	6	3	S	1	7	2.7															
Aug 30	2	1	2	2	2	2	4	2	2	3	2	1	1	1	1	1	2	2	1	2	3	13	13	S	3	1	13	2.9															
Aug 31	2	1	1	1	2	3	14	10	2	1	2	1	1	1	1	1	1	1	1	2	2	4	S	10	8	1	14	3.1															
Diurnal Maximum	2	3	7	3	7	6	14	10	3	3	2	2	5	6	5	5	6	5	2	4	13	13	10	8																			
Diurnal Average	1.8	1.6	2.3	1.9	3.8	3.3	4.6	3.7	2.0	1.8	1.7	1.3	1.5	1.7	1.5	1.7	1.8	1.6	1.5	2.2	4.2	3.5	2.6	2.6																			
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance																				
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance										P	Power Failure									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																															
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																											

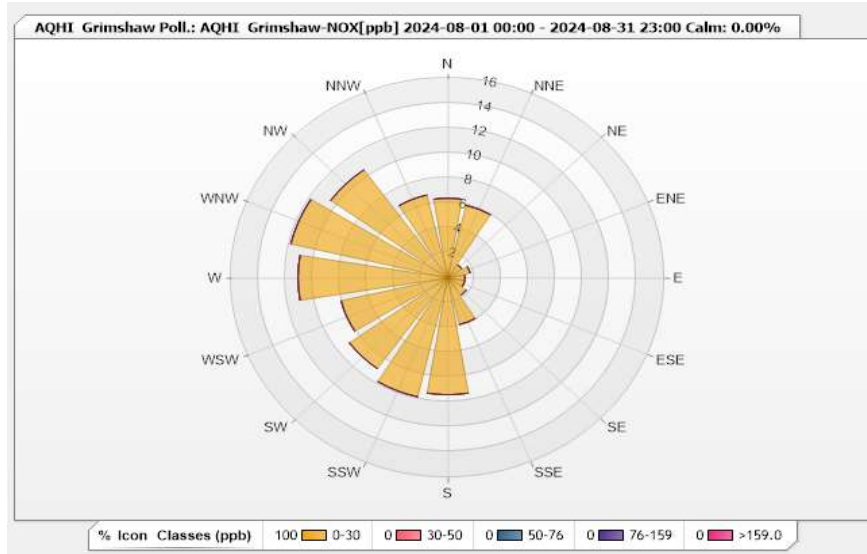


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

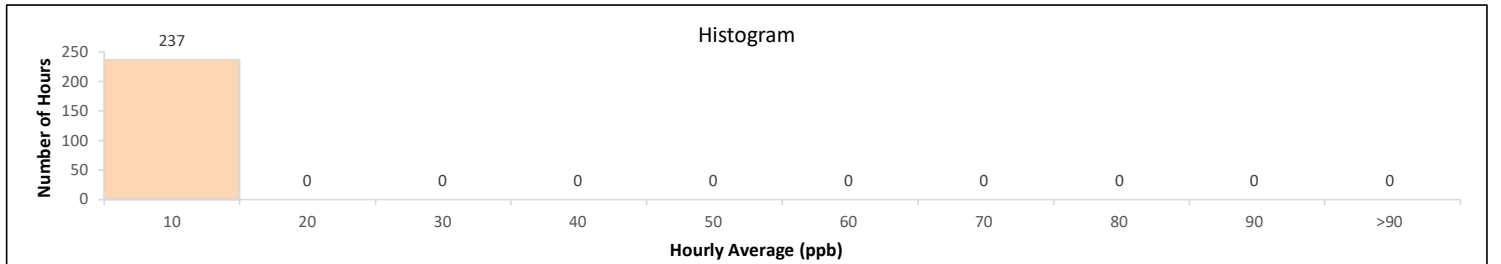
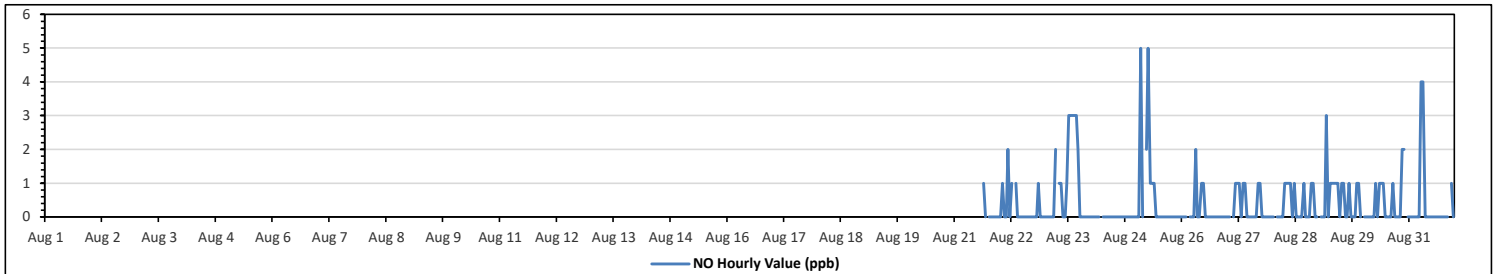
Calm: 0.00% Valid Data: 31.59% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	6.38	0	0	0	0	6.38
NNE	5.96	0	0	0	0	5.96
NE	1.28	0	0	0	0	1.28
ENE	1.7	0	0	0	0	1.7
E	1.28	0	0	0	0	1.28
ESE	1.28	0	0	0	0	1.28
SE	1.7	0	0	0	0	1.7
SSE	3.83	0	0	0	0	3.83
S	9.36	0	0	0	0	9.36
SSW	9.79	0	0	0	0	9.79
SW	8.94	0	0	0	0	8.94
WSW	8.09	0	0	0	0	8.09
W	11.06	0	0	0	0	11.06
WNW	11.91	0	0	0	0	11.91
NW	10.64	0	0	0	0	10.64
NNW	6.81	0	0	0	0	6.81
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
NITRIC OXIDE (NO) in ppb

Maximum Hourly Value:	5	ppb	on Aug 25 at hr 2	Hours in Service:	744																																			
Maximum Daily Value:	1.0	ppb	on Aug 23	Hours of Data:	237																																			
Minimum Hourly Value:	0	ppb	on Aug 21 at hr 16	Hours of Missing Data:	491																																			
Minimum Daily Value:	0.0	ppb	on Aug 24	Hours of Calibration:	16																																			
Monthly Average:	NA	ppb		Operational Uptime:	34.0																																			
Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)													10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 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	X	X	X	X	X	X	-	-	-							
Aug 20	X	X	X	X	X	X	X	X	X	X	X	Y	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	-	-	-							
Aug 21	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	C	C	1	0	Y	0	0	0	0	0	0	0	0	0	0	0	0	1	NA							
Aug 22	0	1	0	0	2	0	1	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3								
Aug 23	0	0	0	0	0	0	2	S	1	1	0	0	1	3	3	3	3	3	2	0	0	0	0	0	0	0	0	0	0	0	3	1.0								
Aug 24	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0								
Aug 25	0	0	5	0	S	2	5	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.7									
Aug 26	0	0	0	S	0	0	0	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.2								
Aug 27	0	0	S	0	1	1	1	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3								
Aug 28	0	S	0	0	0	0	1	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0.3								
Aug 29	S	0	0	0	3	0	1	1	1	1	1	0	1	1	0	0	1	0	0	0	0	0	1	1	0	0	S	0	0	3	0.6									
Aug 30	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	2	2	S	1	0	0	0	2	0.4									
Aug 31	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	0	4	0.4								
Diurnal Maximum	0	1	5	0	3	2	5	4	1	1	1	3	3	3	3	3	3	2	0	0	0	2	2	1	0															
Diurnal Average	0.0	0.1	0.6	0.0	0.7	0.6	1.6	1.1	0.7	0.5	0.3	0.3	0.4	0.4	0.3	0.5	0.5	0.3	0.0	0.0	0.0	0.5	0.4	0.1	0.0															
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																							
K	Collection Error							ND	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure															
X	Invalid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																															
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																								
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																								

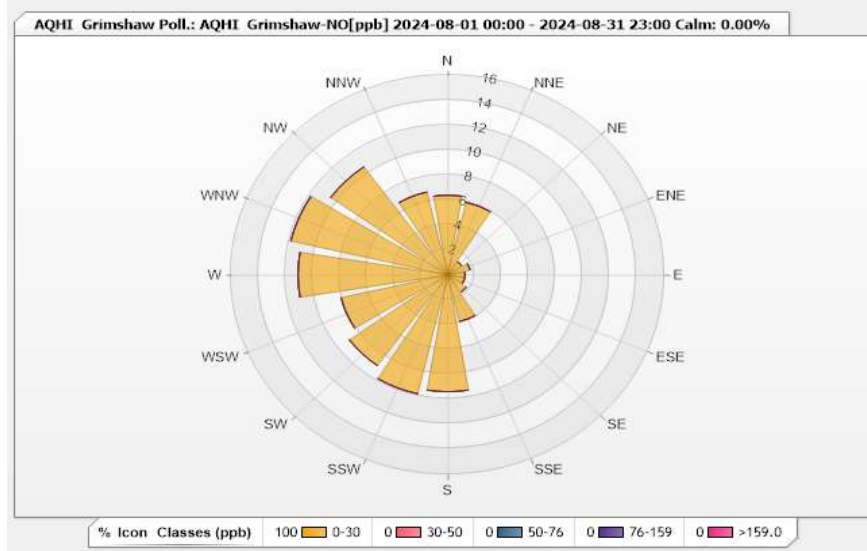


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

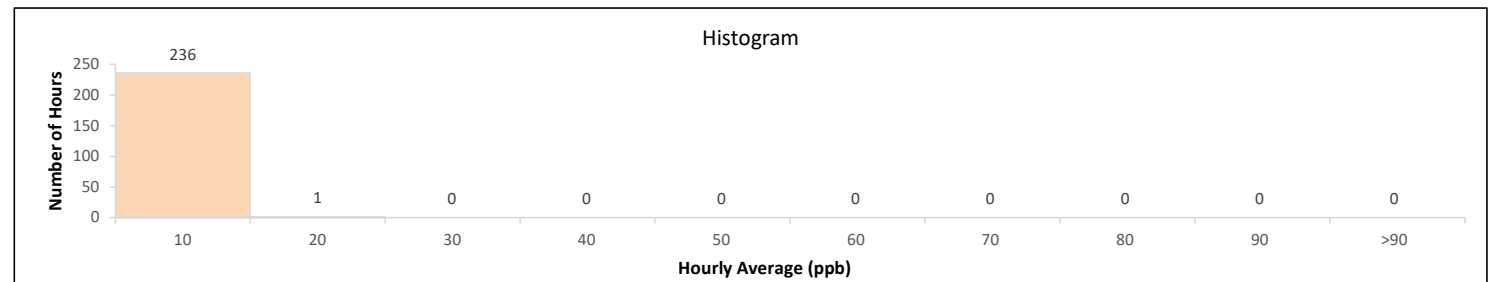
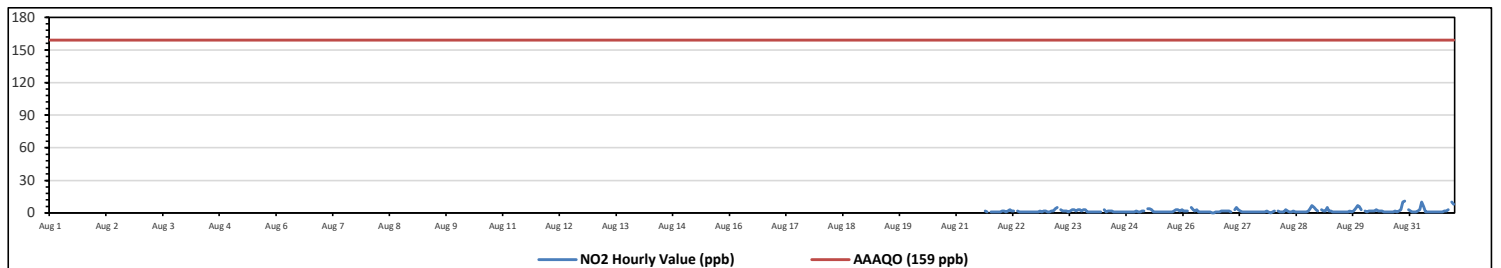
Calm: 0.00% Valid Data: 31.59% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	6.38	0	0	0	0	6.38
NNE	5.96	0	0	0	0	5.96
NE	1.28	0	0	0	0	1.28
ENE	1.7	0	0	0	0	1.7
E	1.28	0	0	0	0	1.28
ESE	1.28	0	0	0	0	1.28
SE	1.7	0	0	0	0	1.7
SSE	3.83	0	0	0	0	3.83
S	9.36	0	0	0	0	9.36
SSW	9.79	0	0	0	0	9.79
SW	8.94	0	0	0	0	8.94
WSW	8.09	0	0	0	0	8.09
W	11.06	0	0	0	0	11.06
WNW	11.91	0	0	0	0	11.91
NW	10.64	0	0	0	0	10.64
NNW	6.81	0	0	0	0	6.81
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
NITROGEN DIOXIDE (NO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 159 ppb																																																					
Number of 1-Hour Exceedances:		0																																																			
Maximum Hourly Value:		11	ppb	on Aug 30 at hr 21										Hours in Service:										744																													
Maximum Daily Value:		2.7	ppb	on Aug 31										Hours of Data:										237																													
Minimum Hourly Value:		0	ppb	on Aug 26 at hr 15										Hours of Missing Data:										491																													
Minimum Daily Value:		1.3	ppb	on Aug 24										Hours of Calibration:										16																													
Monthly Average:		NA	ppb											Operational Uptime:										34.0																													
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average																										
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 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	X	-	-	-																									
Aug 20	X	X	X	X	X	X	X	X	X	X	Y	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	-	-	-																									
Aug 21	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	C	C	2	1	Y	1	1	1	1	1	1	1	2	NA																									
Aug 22	2	2	1	2	3	2	2	S	2	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	1	3	1.5																										
Aug 23	1	1	2	2	4	5	S	3	2	2	2	1	2	3	3	2	3	3	2	3	3	1	1	1	1	5	2.3																										
Aug 24	1	1	1	1	1	S	3	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	3	1.3																										
Aug 25	1	1	2	2	S	4	4	3	1	1	1	1	1	1	1	1	1	1	1	2	3	3	2	3	1	4	1.8																										
Aug 26	2	2	2	S	5	3	2	3	1	1	1	1	1	1	1	0	0	1	1	1	2	2	2	2	0	5	1.6																										
Aug 27	2	1	S	3	5	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	0	1	0	5	1.4																										
Aug 28	2	S	2	1	1	1	3	2	1	1	2	1	1	1	1	1	1	1	2	4	7	5	3	2	1	7	2.0																										
Aug 29	S	3	2	2	5	2	1	1	1	1	1	1	1	1	1	1	2	1	2	4	7	6	3	S	1	7	2.3																										
Aug 30	2	1	2	2	2	2	3	2	2	2	1	1	1	1	1	1	2	1	2	3	10	11	S	3	1	11	2.5																										
Aug 31	2	1	1	1	2	3	10	6	1	1	1	1	1	1	1	1	1	1	2	2	3	S	10	8	1	10	2.7																										
Diurnal Maximum	2	3	2	3	5	5	10	6	2	2	2	1	2	3	3	2	3	3	2	4	10	11	10	8																													
Diurnal Average	1.7	1.4	1.7	1.8	3.1	2.8	3.4	2.4	1.4	1.3	1.3	1.0	1.1	1.2	1.2	1.1	1.3	1.2	1.5	2.1	3.7	3.2	2.5	2.5																													
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance																														
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance																														
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure																														
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																																					
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																																					

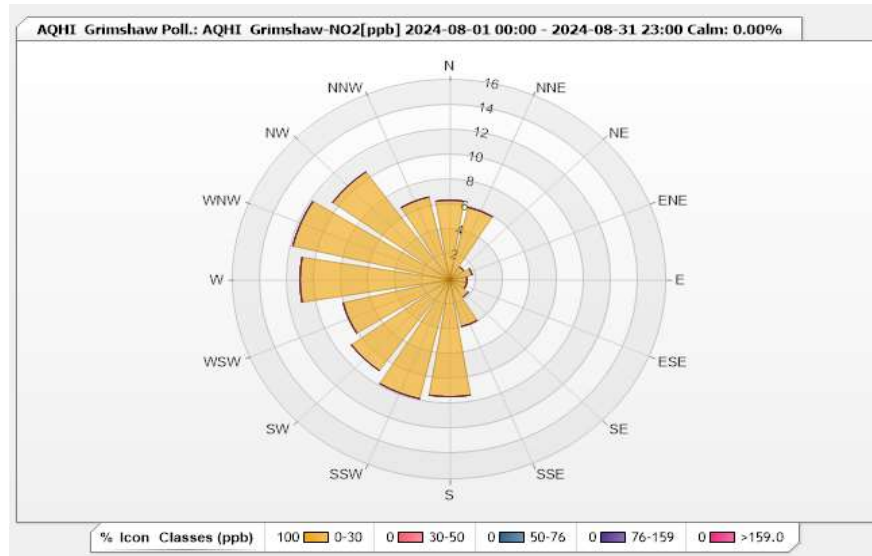


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

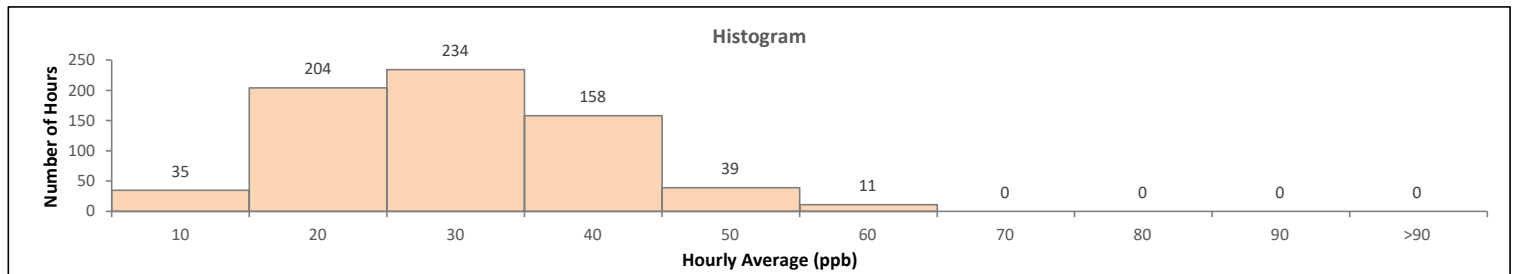
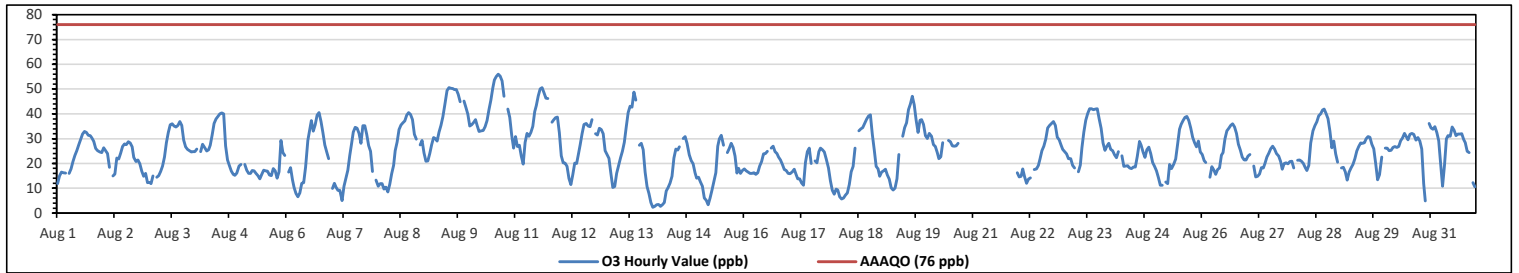
Calm: 0.00% Valid Data: 31.59% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	6.38	0	0	0	0	6.38
NNE	5.96	0	0	0	0	5.96
NE	1.28	0	0	0	0	1.28
ENE	1.7	0	0	0	0	1.7
E	1.28	0	0	0	0	1.28
ESE	1.28	0	0	0	0	1.28
SE	1.7	0	0	0	0	1.7
SSE	3.83	0	0	0	0	3.83
S	9.36	0	0	0	0	9.36
SSW	9.79	0	0	0	0	9.79
SW	8.94	0	0	0	0	8.94
WSW	8.09	0	0	0	0	8.09
W	11.06	0	0	0	0	11.06
WNW	11.91	0	0	0	0	11.91
NW	10.64	0	0	0	0	10.64
NNW	6.81	0	0	0	0	6.81
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
OZONE (O₃) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 76 ppb																													
Number of 1-Hour Exceedances: 0																													
Maximum Hourly Value: 56.0 ppb on Aug 10 at hr 15														Hours in Service: 744															
Maximum Daily Value: 41.2 ppb on Aug 10														Hours of Data: 681															
Minimum Hourly Value: 2.3 ppb on Aug 14 at hr 0														Hours of Missing Data: 24															
Minimum Daily Value: 15.3 ppb on Aug 14														Hours of Calibration: 39															
Monthly Average: 25.1 ppb														Operational Uptime: 96.8															
Day	Hourly Period Starting at (MST)																							Daily Minimum		Daily Maximum		Daily Average	
Aug 1	11.9	15	16.5	16.3	16.1	S	16	17.8	20.7	23.2	25.1	27.5	29.7	31.9	32.8	32.5	31.4	31.2	30.3	28.9	26	25.2	24.6	24.4	11.9	32.8	24.1		
Aug 2	26.3	25.1	23.9	18.4	S	15	15.7	22.1	21.8	24.1	26.8	27.9	27.6	28.7	28.2	26.7	22.4	20.8	21.5	19.8	16.9	14.8	16	12.3	12.3	28.7	21.9		
Aug 3	12.4	11.8	15	S	14.4	15.1	16.8	19	22.5	28.4	32.4	35.6	36	35.1	34.6	35.4	36.9	35.4	29.4	26.7	25.7	25.1	24.6	24.7	11.8	36.9	25.8		
Aug 4	24.8	25.8	S	24.7	27.8	26.3	25	25.5	27.4	31.5	36.2	37.9	38.9	40	40.4	40	27.1	21.5	19.1	16.9	15.6	15.2	16.1	19	15.2	40.4	27.1		
Aug 5	19.5	S	S	19.5	17.3	15.9	15.9	17.2	17	16	15.1	13.7	15.5	17.3	17	16.9	15.3	15.1	17.9	17	14	16.7	29.3	24.4	23.2	13.7	29.3	17.7	
Aug 6	S	16.5	18.3	13.4	10.3	7.9	6.6	8.1	12	12.3	18.5	29.3	33.7	37.3	33	35.6	39.5	40.6	37	32.5	27.5	24.6	21.9	S	6.6	40.6	23.5		
Aug 7	9.9	12	10.4	9.1	9.1	5	10.9	14.1	17.3	23.2	28.2	32.6	34.5	34.2	32.1	28	35.2	35.2	31.8	27.2	24.9	16.8	S	13.2	5.0	35.2	21.5		
Aug 8	10.9	11.8	11.9	9.7	10.4	8.5	11.6	15.8	19.3	25.1	28.6	33.7	35.5	36.4	37.1	39.5	40.6	39.7	37.6	31.8	29.8	S	27.5	29.3	8.5	40.6	25.3		
Aug 9	24.2	20.9	21.1	24	27.6	30.4	30.1	29	32.6	35.3	38.8	43.6	49.4	50.6	50.3	50.2	49.8	49.8	47.9	44.9	S	45.1	42.6	39.8	20.9	50.6	38.2		
Aug 10	35	35.6	36.5	37.6	35.4	32.9	33.1	33.3	34.8	37.3	41.6	45.5	50.4	53.6	55.1	56	55.3	53.3	47.1	S	41.9	38.6	31.5	26.2	26.2	56.0	41.2		
Aug 11	30.8	26.8	27.4	22.9	19.7	28.5	32.2	30.9	32.5	34.9	40.8	43.3	47.2	50.1	50.6	48.5	46.3	46.2	S	36.6	37.5	38.5	38.7	32.3	19.7	50.6	36.7		
Aug 12	23.1	20.2	20.1	18.9	13.9	11.5	15.4	20.1	19.9	23.4	27.5	32	35.8	36.2	35	34.8	37.7	S	32	31.5	34.2	33.7	32	25.2	11.5	37.7	26.7		
Aug 13	23.6	22	16	10.3	10.7	15.9	19.1	22.1	24.9	28.5	34.6	40.6	43.1	42.8	48.8	45.5	S	27.4	28.1	25.5	16.5	10.7	7.9	4.3	4.3	48.8	24.7		
Aug 14	2.3	2.7	3.3	3.5	2.6	3.3	4.3	8.8	10.3	12.1	14.9	22.2	25.8	25.4	26.7	S	30.1	30.8	28.1	23.5	21.2	19.8	16.3	14.1	2.3	30.8	15.3		
Aug 15	14.4	12.5	10.8	6	5.1	3.3	6.1	9.3	12.8	16.2	26.9	30	31.3	27.3	S	24.3	26	28.1	26.4	22.9	16.1	18	16	17.2	3.3	31.3	17.7		
Aug 16	17.8	17.1	16.5	15.9	16	16.3	15.6	16.3	19	20.7	23.8	23.9	24.9	S	26.1	26.9	24.8	23.9	22.6	21.5	19.6	17.5	17.2	15.9	15.6	26.9	20.0		
Aug 17	15.8	16.7	17.6	15.4	13.8	13.7	12.1	11.1	20.3	24.8	26.2	19.9	S	21.1	20.2	24.7	26.1	25.5	24.6	21.8	18.2	13	9.1	7.6	7.6	26.2	18.2		
Aug 18	9.7	9.3	6.6	5.7	6.1	7.2	8.1	11.5	16.7	18.9	26.2	S	33.2	33.9	34.4	36.1	37.8	39.1	39.6	31.8	25.5	18.9	17.8	14.8	5.7	39.6	21.3		
Aug 19	16.5	17.1	17.6	15.3	13.6	10.2	9.3	10.1	13.8	23.7	S	30.9	34.4	36.4	41.7	44	47.1	43.6	37.4	32.5	37.4	37.6	35.7	31.2	9.3	47.1	27.7		
Aug 20	30.1	32.2	31	27.6	26.8	24.3	21.9	22.7	28.4	S	Y	29.3	28.7	27.1	27	27.1	28	C	C	NRM	NRM	NRM	NRM	NRM	NRM	21.9	32.2	NA	
Aug 21	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	C	C	16.3	16.3	NA		
Aug 22	14.6	14.9	17.7	14.6	12	13.6	14.2	S	17.5	17.7	19.2	21.7	25.1	26.9	29.8	34.3	35.3	36.1	36.8	35.3	30.6	29.6	27.4	25.7	12.0	36.8	23.9		
Aug 23	24.7	23.8	21.9	21.9	19.2	18.1	S	16.6	19.4	26.3	32.6	37.4	40.1	42	42	41.7	41.9	42.1	38	34.2	28.2	25.3	26.9	28	16.6	42.1	30.1		
Aug 24	25.7	25.1	23.5	22.3	24.7	S	23.1	18.8	19	19.1	18.1	17.9	18.6	18.6	22.8	28.9	27.4	24.6	22.4	25.6	26.6	24	20.4	18.9	17.9	28.9	22.4		
Aug 25	17	14.3	11.2	11.1	S	12.5	11.8	19.5	17.9	19.7	21.7	27.7	33.8	35.7	37.2	38.6	38.9	37.3	34.3	30.6	28.4	26.7	29	24.6	11.1	38.9	25.2		
Aug 26	23.7	21.2	20.4	S	14.4	18.7	17.4	15.6	17.5	18.2	23.3	24.4	30	33.2	34.2	35.4	36	34.7	32.1	27.8	25.4	22.6	21.4	21.4	14.4	36.0	24.7		
Aug 27	23	23.6	S	19	14.6	14.8	15.7	18.3	18.2	19.9	22.6	24.1	25.9	27	25.8	24	23	20.7	17.6	19.9	20.2	19.8	20.8	20.9	14.6	27.0	20.8		
Aug 28	18.1	S	21.3	21.4	20.9	19.9	18.3	17.2	19.3	28.2	33.1	35.2	36.7	39.2	40	41.5	41.9	40.2	38.1	33	26.3	29	23.8	20.5	17.2	41.9	28.8		
Aug 29	S	18.1	18.4	16.6	13.2	16.5	18.2	19.6	21.9	25	26.8	28.2	28.1	28.3	29.9	30.8	30.5	27.7	25.9	20	13.4	15.4	22.5	S	13.2	30.8	22.5		
Aug 30	26.1	26.1	25.1	25.3	26.4	26.8	26.4	26.8	29.2	30.2	32.2	31	29.5	31.7	32.1	31.7	29.4	30.4	29	25.8	11.8	4.9	S	36.1	4.9	36.1	27.1		
Aug 31	34.3	33.8	34.8	32.4	29.1	19.8	10.9	19.3	30	31.2	30.9	34.7	33.4	31.2	31.9	31.9	32	29.7	28.3	24.9	24.4	S	12.3	10.6	10.6	34.8	27.5		
Diurnal Maximum	35.0	35.6	36.5	37.6	35.4	32.9	33.1	33.3	34.8	37.3	41.6	45.5	50.4	53.6	55.1	56.0	55.3	53.3	47.9	44.9	41.9	45.1	42.6	39.8					
Diurnal Average	20.2	19.7	19.1	17.7	16.8	16.1	16.7	18.5	21.1	23.9	27.5	30.5	33.1	33.8	34.4	34.8	34.3	33.3	30.7	27.4	24.5	23.7	23.1	21.3					
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance														
K	Collection Error						ND	No Data (Machine Not in Service)						Y	Routine Maintenance						P	Power Failure							
X	Invalid Data (Equipment Malfunction / Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																					
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																													

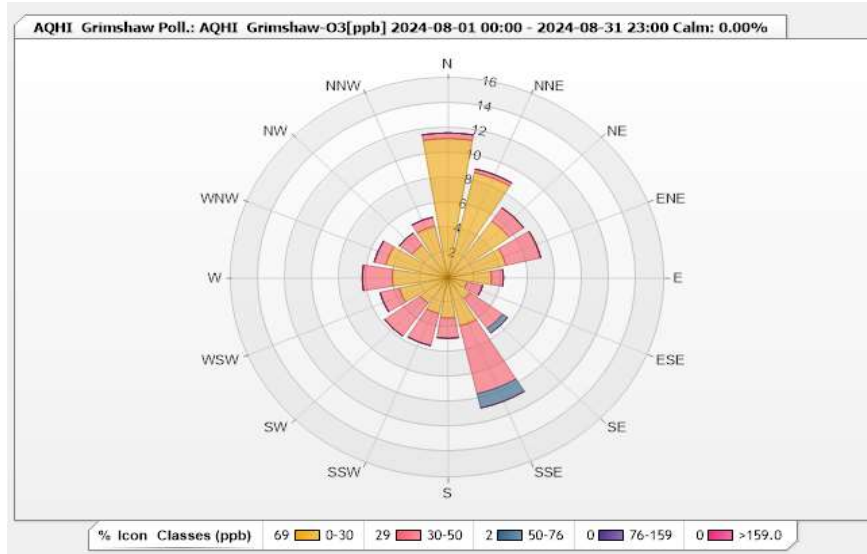


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 91.53% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	11.16	0.44	0	0	0	11.6
NNE	8.66	0.29	0	0	0	8.95
NE	5.58	1.32	0	0	0	6.9
ENE	4.41	2.64	0	0	0	7.05
E	3.23	0.88	0	0	0	4.11
ESE	1.47	1.17	0	0	0	2.64
SE	2.06	2.94	0.44	0	0	5.44
SSE	3.96	5.58	1.17	0	0	10.71
S	3.23	1.62	0	0	0	4.85
SSW	2.94	2.64	0	0	0	5.58
SW	2.5	3.23	0	0	0	5.73
WSW	3.67	1.47	0	0	0	5.14
W	4.11	2.2	0	0	0	6.31
WNW	4.7	0.88	0	0	0	5.58
NW	3.23	1.17	0	0	0	4.4
NNW	4.26	0.73	0	0	0	4.99
Summary	69.17	29.2	1.61	0	0	100



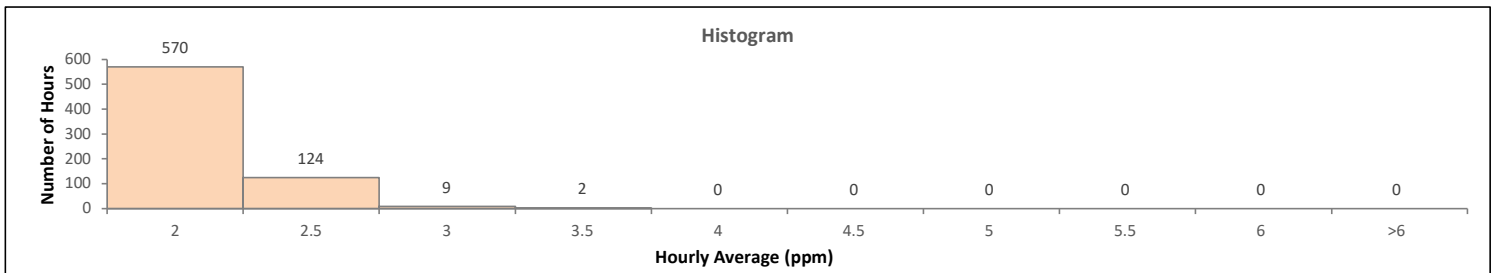
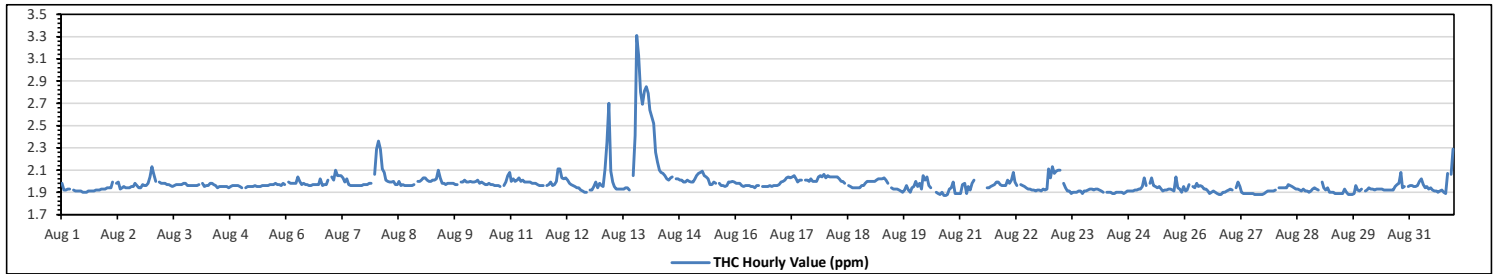
Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
TOTAL HYDROCARBONS (THC) in ppm

Maximum Hourly Value:	3.31	ppm	on Aug 13 at hr 19	Hours in Service:	744
Maximum Daily Value:	2.25	ppm	on Aug 13	Hours of Data:	705
Minimum Hourly Value:	1.87	ppm	on Aug 20 at hr 15	Hours of Missing Data:	1
Minimum Daily Value:	1.90	ppm	on Aug 27	Hours of Calibration:	38
Monthly Average:	1.98	ppm		Operational Uptime:	99.9

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average	
Aug 1	1.98	1.92	1.92	1.93	1.93	S	1.92	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.91	1.91	1.91	1.91	1.92	1.92	1.92	1.93	1.93	1.93	1.90	1.98	1.92	
Aug 2	1.94	1.94	1.94	1.99	S	1.98	1.99	1.93	1.94	1.95	1.94	1.94	1.94	1.95	1.95	1.98	1.96	1.94	1.94	1.97	1.96	1.96	1.98	2.04	1.93	2.04	1.96	
Aug 3	2.13	2.06	2.00	S	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.96	1.95	1.96	1.97	1.97	1.97	1.98	1.98	1.96	1.96	1.96	1.96	1.96	1.95	2.13	1.98	
Aug 4	1.96	1.97	S	1.98	1.95	1.96	1.96	1.98	1.98	1.97	1.96	1.94	1.95	1.95	1.95	1.95	1.95	1.94	1.95	1.96	1.96	1.96	1.96	1.95	1.94	1.98	1.96	
Aug 5	1.94	S	1.94	1.95	1.95	1.95	1.95	1.96	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.98	1.97	1.97	1.96	1.98	1.97	1.94	1.98	1.96	
Aug 6	S	1.99	1.98	1.98	1.98	1.98	2.04	2.00	1.97	1.98	1.97	1.97	1.96	1.96	1.97	1.97	1.97	1.97	2.02	1.96	1.97	1.97	2.01	S	1.96	2.04	1.98	
Aug 7	2.04	2.01	2.10	2.05	2.05	2.05	2.03	1.99	2.02	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.98	1.98	S	2.06	1.96	2.10	2.00	
Aug 8	2.29	2.36	2.29	2.11	2.08	2.01	2.00	1.99	1.99	2.00	1.97	1.97	2.00	1.96	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.97	S	2.00	2.00	1.96	2.36	2.03
Aug 9	2.01	2.03	2.03	2.01	2.00	2.00	2.01	2.01	2.02	2.10	2.03	1.98	1.98	1.97	1.98	1.98	1.98	1.98	1.98	1.97	1.97	S	1.99	1.99	2.01	1.97	2.10	2.00
Aug 10	1.99	1.99	2.00	1.99	1.99	2.00	2.01	1.98	1.99	1.98	1.97	1.97	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.95	S	1.96	1.99	2.05	2.08	1.95	2.08	1.99
Aug 11	2.00	2.02	2.00	2.01	2.03	2.00	2.01	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.97	1.96	1.96	1.96	S	1.96	1.97	1.99	1.96	1.97	1.96	2.03	1.99	
Aug 12	2.00	2.11	2.11	2.03	2.02	2.03	2.01	1.98	1.97	1.96	1.95	1.94	1.94	1.92	1.91	1.90	1.90	S	1.92	1.92	1.95	1.99	1.94	1.98	1.90	2.11	1.97	
Aug 13	1.96	1.95	2.11	2.35	2.70	2.09	1.99	1.95	1.93	1.93	1.93	1.93	1.93	1.94	1.94	1.92	S	2.05	2.41	3.31	3.13	2.80	2.69	2.81	1.92	3.31	2.25	
Aug 14	2.85	2.79	2.64	2.58	2.52	2.26	2.17	2.10	2.08	2.07	2.05	2.02	2.01	2.03	2.04	S	2.02	2.02	2.01	2.01	1.99	1.99	2.01	2.00	1.99	2.85	2.19	
Aug 15	1.99	1.99	2.02	2.05	2.07	2.08	2.09	2.05	2.04	2.02	1.97	1.97	1.99	1.98	S	1.98	1.96	1.96	1.95	1.96	1.99	1.99	2.00	1.99	1.95	2.09	2.00	
Aug 16	1.98	1.98	1.98	1.96	1.95	1.96	1.96	1.96	1.95	1.95	1.94	1.96	1.96	S	1.95	1.95	1.95	1.95	1.96	1.95	1.96	1.96	1.96	1.97	1.94	1.98	1.96	
Aug 17	1.99	2.00	2.01	2.03	2.04	2.03	2.04	2.05	2.02	1.99	2.01	2.01	S	2.01	2.01	2.00	2.02	2.00	2.00	2.00	2.04	2.05	2.04	2.06	1.99	2.06	2.02	
Aug 18	2.03	2.05	2.04	2.04	2.04	2.04	2.04	2.02	2.00	2.00	1.98	S	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.96	1.96	1.98	2.00	2.00	1.94	2.05	1.99	
Aug 19	2.00	2.00	2.00	2.01	2.02	2.02	2.02	2.03	2.01	1.98	S	1.94	1.93	1.93	1.93	1.92	1.91	1.90	1.92	1.96	1.92	1.90	1.94	1.95	1.90	2.03	1.96	
Aug 20	2.00	1.95	1.98	1.93	2.05	2.01	2.04	1.96	1.94	S	Y	1.90	1.89	1.88	1.90	1.87	1.87	1.88	1.93	1.94	1.99	1.89	1.89	1.89	1.87	2.05	1.94	
Aug 21	1.89	1.97	1.98	1.89	1.95	1.92	1.98	2.01	S	C	C	C	C	C	C	1.94	1.94	1.95	1.96	1.97	1.99	1.99	1.97	1.96	1.89	2.01	1.96	
Aug 22	1.96	2.01	1.98	2.01	2.08	1.99	1.96	S	1.97	1.96	1.95	1.94	1.93	1.93	1.92	1.92	1.91	1.92	1.92	1.91	1.93	1.92	1.93	2.11	1.91	2.11	1.96	
Aug 23	2.03	2.13	2.07	2.09	2.10	2.10	S	1.98	1.94	1.91	1.91	1.89	1.90	1.90	1.90	1.91	1.91	1.89	1.91	1.91	1.92	1.93	1.93	1.92	1.89	2.13	1.96	
Aug 24	1.93	1.93	1.92	1.91	1.90	S	1.90	1.90	1.90	1.89	1.89	1.90	1.90	1.90	1.90	1.89	1.90	1.91	1.91	1.91	1.91	1.92	1.92	1.93	1.89	1.93	1.91	
Aug 25	1.93	1.95	2.03	1.96	S	1.98	2.03	1.96	1.95	1.94	1.95	1.93	1.91	1.92	1.92	1.93	1.93	1.92	1.91	2.04	1.94	1.93	1.90	1.95	1.90	2.04	1.95	
Aug 26	1.91	1.92	1.97	S	1.95	1.94	1.98	1.95	1.96	1.95	1.93	1.93	1.91	1.89	1.90	1.91	1.90	1.89	1.88	1.88	1.90	1.90	1.91	1.92	1.88	1.98	1.92	
Aug 27	1.93	1.92	S	1.94	1.99	1.95	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.89	1.90	1.91	1.91	1.91	1.91	1.88	1.99	1.90	
Aug 28	1.92	S	1.94	1.94	1.94	1.94	1.94	1.97	1.96	1.95	1.94	1.93	1.93	1.92	1.91	1.93	1.91	1.91	1.90	1.91	1.93	1.94	1.93	1.92	1.90	1.97	1.93	
Aug 29	S	1.99	1.94	1.92	1.94	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.93	1.90	1.88	1.88	1.88	1.89	1.96	1.92	1.91	1.93	S	1.88	1.99	1.91	
Aug 30	1.91	1.92	1.94	1.93	1.93	1.92	1.93	1.93	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.95	1.97	1.98	2.08	1.94	1.95	S	1.95	1.91	2.08	1.94	
Aug 31	1.96	1.96	1.95	1.95	1.96	2.00	2.02	1.97	1.94	1.95	1.93	1.94	1.92	1.91	1.91	1.90	1.91	1.92	1.90	1.89	2.07	S	2.06	2.29	1.89	2.29	1.97	
Diurnal Maximum	2.85	2.79	2.64	2.58	2.70	2.26	2.17	2.10	2.08	2.10	2.05	2.02	2.01	2.03	2.04	2.00	2.02	2.05	2.41	3.31	3.13	2.80	2.69	2.81				
Diurnal Average	2.02	2.03	2.03	2.02	2.04	2.00	1.99	1.98	1.97	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.96	2.00	2.00	1.98	1.99	2.02				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance											
K	Collection Error							ND	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure			
X	Invalid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			

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

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

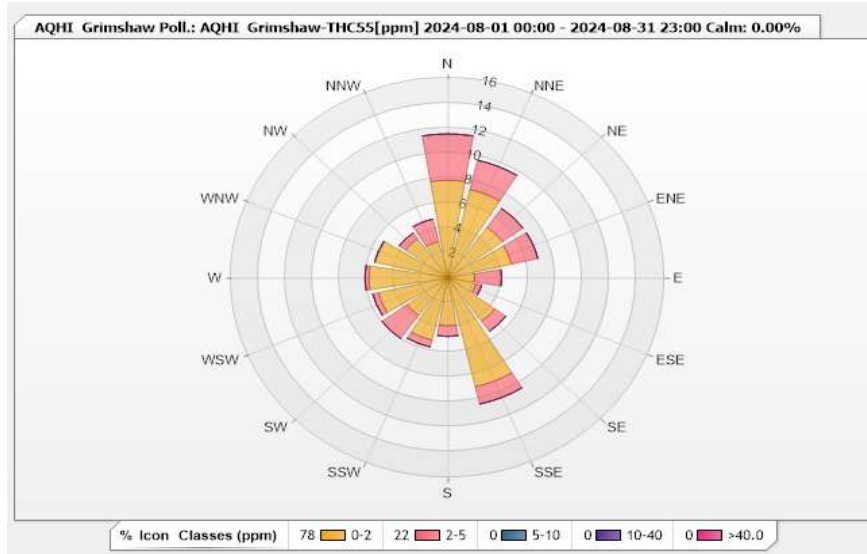


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	7.82	3.7	0	0	0	11.52
NNE	7.25	2.42	0	0	0	9.67
NE	4.98	1.85	0	0	0	6.83
ENE	4.84	1.99	0	0	0	6.83
E	1.99	1.99	0	0	0	3.98
ESE	2.13	0.43	0	0	0	2.56
SE	4.27	1	0	0	0	5.27
SSE	8.96	1.42	0	0	0	10.38
S	3.84	0.85	0	0	0	4.69
SSW	5.12	0.57	0	0	0	5.69
SW	3.7	2.28	0	0	0	5.98
WSW	5.26	0.43	0	0	0	5.69
W	5.83	0.28	0	0	0	6.11
WNW	5.55	0	0	0	0	5.55
NW	3.84	0.57	0	0	0	4.41
NNW	2.99	1.85	0	0	0	4.84
Summary	78.37	21.63	0	0	0	100



Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
METHANE (CH4) in ppm

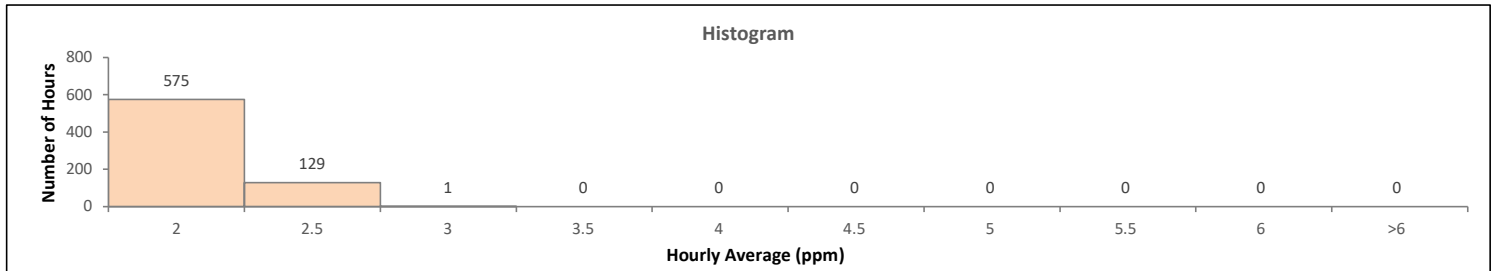
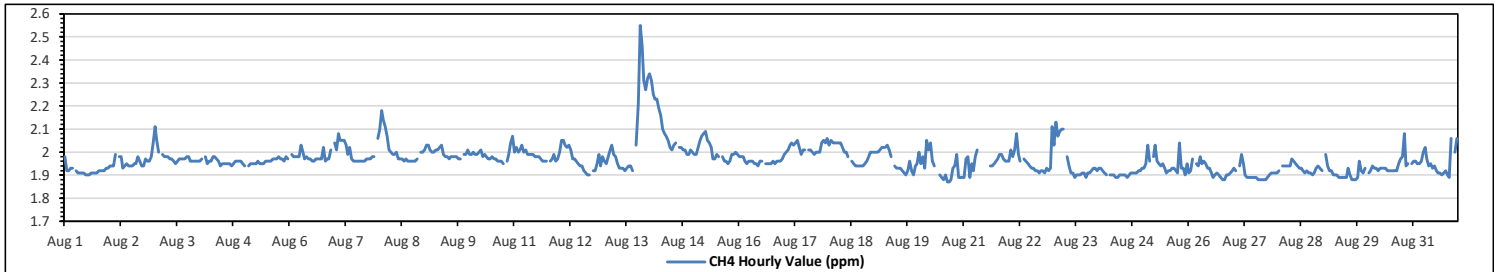
Maximum Hourly Value:	2.55	ppm	on Aug 13 at hr 19	Hours in Service:	744
Maximum Daily Value:	2.09	ppm	on Aug 14	Hours of Data:	705
Minimum Hourly Value:	1.87	ppm	on Aug 20 at hr 15	Hours of Missing Data:	1
Minimum Daily Value:	1.90	ppm	on Aug 27	Hours of Calibration:	38
Monthly Average:	1.97	ppm		Operational Uptime:	99.9

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average	
Aug 1	1.98	1.92	1.92	1.93	1.93	S	1.92	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.91	1.91	1.91	1.91	1.92	1.92	1.92	1.92	1.93	1.93	1.90	1.98	1.92	
Aug 2	1.94	1.94	1.94	1.99	S	1.98	1.98	1.93	1.94	1.95	1.94	1.94	1.94	1.95	1.95	1.98	1.96	1.94	1.94	1.97	1.96	1.96	1.98	2.04	1.93	2.04	1.96	
Aug 3	2.11	2.05	2.00	S	1.99	1.98	1.98	1.98	1.97	1.97	1.96	1.95	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.96	1.96	1.96	1.96	1.96	1.95	2.11	1.98	
Aug 4	1.96	1.97	S	1.98	1.95	1.96	1.96	1.98	1.98	1.97	1.96	1.94	1.95	1.95	1.95	1.95	1.95	1.94	1.95	1.96	1.96	1.96	1.96	1.95	1.94	1.98	1.96	
Aug 5	1.94	S	1.94	1.95	1.95	1.95	1.95	1.96	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.98	1.97	1.97	1.96	1.98	1.97	1.94	1.98	1.96	
Aug 6	S	1.99	1.98	1.98	1.98	1.98	2.03	2.00	1.97	1.98	1.97	1.97	1.96	1.96	1.96	1.97	1.97	1.97	2.02	1.96	1.97	1.97	2.01	S	1.96	2.03	1.98	
Aug 7	2.04	2.01	2.08	2.05	2.05	2.05	2.03	1.99	2.02	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.98	1.98	S	2.06	1.96	2.08	2.00	
Aug 8	2.10	2.18	2.14	2.11	2.07	2.01	2.00	1.99	1.99	2.00	1.97	1.97	1.97	1.96	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.97	S	2.00	1.96	2.18	2.01	
Aug 9	2.01	2.03	2.03	2.01	2.00	2.00	2.01	2.01	2.02	2.03	1.99	1.98	1.98	1.97	1.98	1.98	1.98	1.98	1.97	1.97	S	1.99	1.99	2.01	1.97	2.03	2.00	
Aug 10	1.99	1.99	2.00	1.99	1.99	2.00	2.01	1.98	1.99	1.98	1.97	1.97	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.95	S	1.96	1.99	2.04	1.95	2.07	1.99	
Aug 11	2.00	2.02	2.00	2.01	2.03	2.00	2.01	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.97	1.96	1.96	1.96	S	1.96	1.97	1.99	1.96	1.97	1.96	2.03	1.99	
Aug 12	2.00	2.05	2.05	2.03	2.02	2.03	2.01	1.97	1.97	1.96	1.95	1.94	1.94	1.92	1.91	1.90	1.90	S	1.92	1.92	1.95	1.99	1.94	1.98	1.90	2.05	1.97	
Aug 13	1.96	1.95	1.98	2.01	2.03	1.99	1.98	1.95	1.93	1.93	1.93	1.92	1.93	1.94	1.94	1.92	S	2.03	2.21	2.55	2.46	2.31	2.27	2.32	1.92	2.55	2.06	
Aug 14	2.34	2.31	2.25	2.23	2.23	2.19	2.16	2.10	2.08	2.07	2.05	2.02	2.01	2.03	2.04	S	2.02	2.02	2.01	2.01	1.99	1.99	2.01	2.00	1.99	2.34	2.09	
Aug 15	1.99	1.99	2.02	2.05	2.07	2.08	2.09	2.05	2.04	2.02	1.97	1.97	1.99	1.98	S	1.98	1.96	1.96	1.95	1.96	1.99	1.99	2.00	1.99	1.95	2.09	2.00	
Aug 16	1.98	1.98	1.98	1.96	1.95	1.96	1.96	1.96	1.95	1.95	1.94	1.96	1.96	S	1.95	1.95	1.95	1.95	1.96	1.95	1.96	1.96	1.96	1.97	1.94	1.98	1.96	
Aug 17	1.99	2.00	2.01	2.03	2.04	2.03	2.04	2.05	2.02	1.99	2.01	2.01	S	2.01	2.01	2.00	1.99	2.00	2.00	2.00	2.04	2.05	2.04	2.06	1.99	2.06	2.02	
Aug 18	2.03	2.05	2.04	2.04	2.04	2.04	2.04	2.02	2.00	2.00	1.98	S	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.98	2.00	2.00	1.94	2.05	1.99	
Aug 19	2.00	2.00	2.00	2.01	2.02	2.02	2.02	2.03	2.01	1.98	S	1.94	1.93	1.93	1.93	1.92	1.91	1.90	1.92	1.96	1.92	1.90	1.94	1.95	1.90	2.03	1.96	
Aug 20	2.00	1.95	1.98	1.93	2.05	2.01	2.04	1.96	1.94	S	Y	1.90	1.89	1.88	1.90	1.87	1.87	1.88	1.93	1.94	1.99	1.89	1.89	1.89	1.87	2.05	1.94	
Aug 21	1.89	1.97	1.98	1.89	1.95	1.92	1.98	2.01	S	C	C	C	C	C	C	1.94	1.94	1.95	1.96	1.97	1.99	1.99	1.97	1.96	1.96	1.89	2.01	1.96
Aug 22	1.96	2.01	1.98	2.01	2.08	1.99	1.96	S	1.97	1.96	1.95	1.94	1.93	1.93	1.92	1.92	1.91	1.92	1.92	1.91	1.93	1.92	1.93	2.11	1.91	2.11	1.96	
Aug 23	2.03	2.13	2.07	2.09	2.10	2.10	S	1.98	1.94	1.91	1.91	1.89	1.90	1.90	1.90	1.91	1.91	1.89	1.91	1.91	1.92	1.93	1.93	1.92	1.89	2.13	1.96	
Aug 24	1.93	1.93	1.92	1.91	1.90	S	1.90	1.90	1.90	1.89	1.89	1.90	1.90	1.90	1.90	1.89	1.90	1.91	1.91	1.91	1.91	1.92	1.92	1.93	1.89	1.93	1.91	
Aug 25	1.93	1.95	2.03	1.96	S	1.98	2.03	1.96	1.95	1.94	1.95	1.93	1.91	1.92	1.92	1.93	1.93	1.92	1.91	2.04	1.93	1.93	1.90	1.95	1.90	2.04	1.95	
Aug 26	1.91	1.92	1.97	S	1.95	1.94	1.94	1.98	1.95	1.96	1.95	1.93	1.93	1.91	1.89	1.90	1.91	1.90	1.89	1.88	1.88	1.90	1.90	1.91	1.92	1.88	1.98	1.92
Aug 27	1.93	1.92	S	1.94	1.99	1.95	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.89	1.90	1.91	1.91	1.91	1.91	1.88	1.99	1.90	
Aug 28	1.92	S	1.94	1.94	1.94	1.94	1.94	1.97	1.96	1.95	1.94	1.93	1.93	1.92	1.91	1.92	1.91	1.91	1.90	1.91	1.93	1.94	1.93	1.92	1.90	1.97	1.93	
Aug 29	S	1.99	1.94	1.92	1.92	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.93	1.90	1.88	1.88	1.88	1.89	1.96	1.92	1.91	1.93	S	1.88	1.99	1.91	
Aug 30	1.91	1.92	1.94	1.93	1.93	1.92	1.93	1.93	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.95	1.97	1.98	2.08	1.94	1.95	S	1.95	1.91	2.08	1.94	
Aug 31	1.96	1.96	1.95	1.95	1.96	2.00	2.02	1.97	1.94	1.95	1.93	1.94	1.92	1.91	1.91	1.90	1.91	1.92	1.90	1.89	2.06	S	2.00	2.06	1.89	2.06	1.95	
Diurnal Maximum	2.34	2.31	2.25	2.23	2.23	2.19	2.16	2.10	2.08	2.07	2.05	2.02	2.01	2.03	2.04	2.00	2.02	2.03	2.21	2.55	2.46	2.31	2.27	2.32				
Diurnal Average	1.99	2.00	2.00	1.99	2.00	2.00	1.99	1.98	1.97	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.97	1.97	1.97	1.97	1.99				

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

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

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

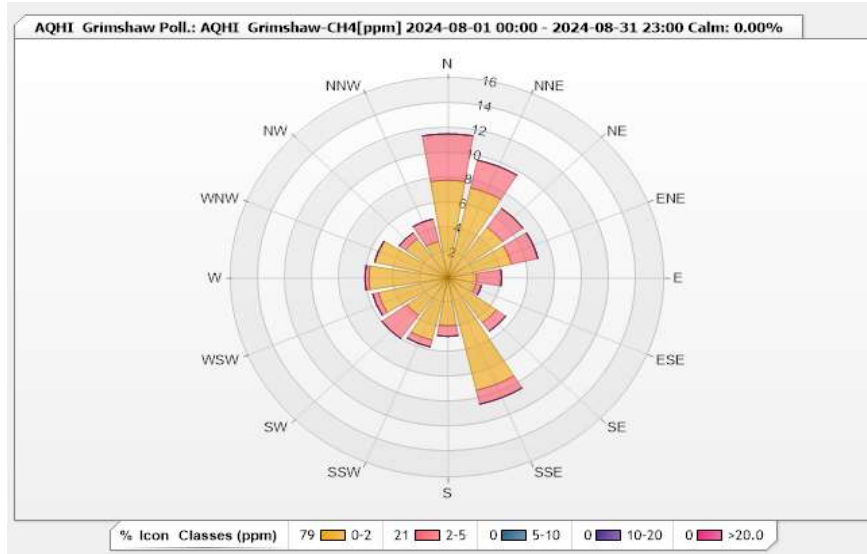


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	7.82	3.7	0	0	0	11.52
NNE	7.4	2.28	0	0	0	9.68
NE	4.98	1.85	0	0	0	6.83
ENE	4.84	1.99	0	0	0	6.83
E	2.13	1.85	0	0	0	3.98
ESE	2.13	0.43	0	0	0	2.56
SE	4.41	0.85	0	0	0	5.26
SSE	9.25	1.14	0	0	0	10.39
S	3.84	0.85	0	0	0	4.69
SSW	5.12	0.57	0	0	0	5.69
SW	3.7	2.28	0	0	0	5.98
WSW	5.26	0.43	0	0	0	5.69
W	5.83	0.28	0	0	0	6.11
WNW	5.55	0	0	0	0	5.55
NW	3.84	0.57	0	0	0	4.41
NNW	2.99	1.85	0	0	0	4.84
Summary	79.09	20.92	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - August 2024

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

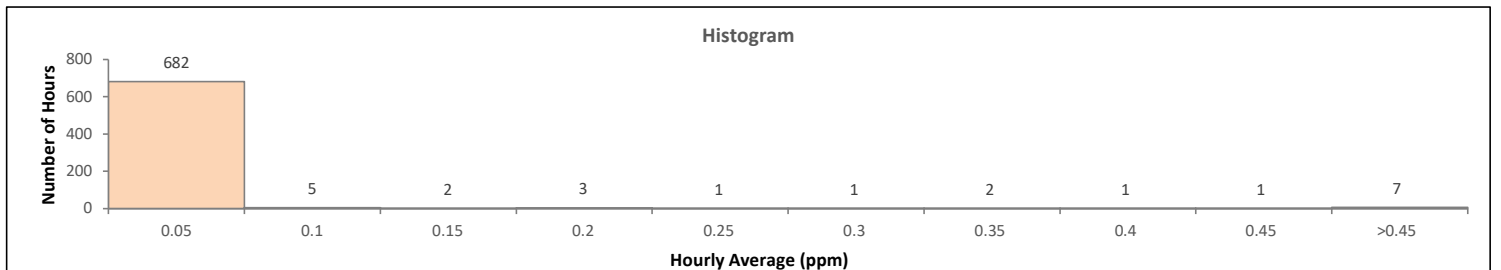
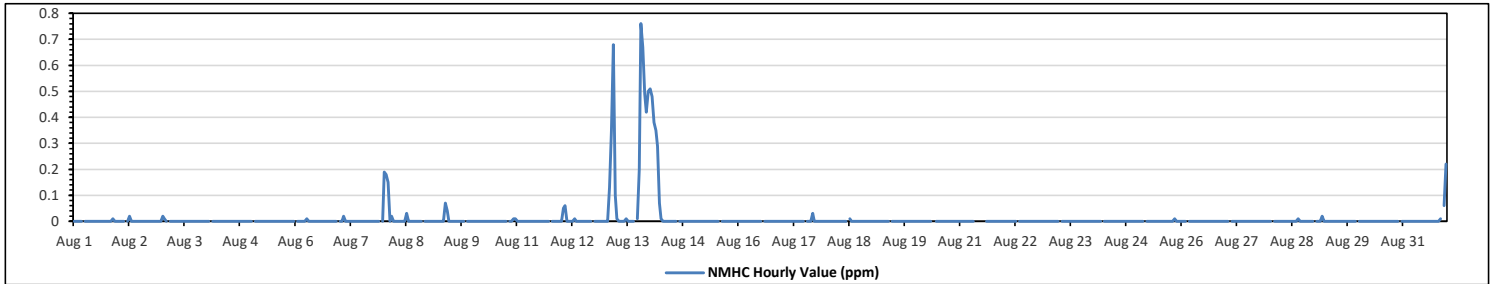
Maximum Hourly Value:	0.76	ppm	on Aug 13 at hr 19	Hours in Service:	744
Maximum Daily Value:	0.19	ppm	on Aug 13	Hours of Data:	705
Minimum Hourly Value:	0.00	ppm	on Aug 1 at hr 0	Hours of Missing Data:	1
Minimum Daily Value:	0.00	ppm	on Aug 4	Hours of Calibration:	38
Monthly Average:	0.01	ppm		Operational Uptime:	99.9

Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Aug 1	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	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
Aug 2	0.00	0.00	0.00	0.00	S	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Aug 3	0.02	0.01	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Aug 4	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 5	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 6	S	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.01	0.00
Aug 7	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.02	0.00
Aug 8	0.19	0.18	0.15	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.19	0.02
Aug 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.07	0.00
Aug 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	S	0.00	0.00	0.01	0.01	0.00	0.01	0.00
Aug 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 12	0.00	0.05	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01
Aug 13	0.00	0.00	0.13	0.35	0.68	0.10	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	S	0.01	0.20	0.76	0.67	0.49	0.42	0.50	0.00	0.76	0.19
Aug 14	0.51	0.48	0.38	0.35	0.29	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.09
Aug 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 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	S	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Aug 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Aug 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	Y	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	C	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 23	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 24	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 25	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00
Aug 26	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 27	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 28	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Aug 29	S	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.02	0.00	0.00
Aug 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Aug 31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	S	0.06	0.22	0.00	0.22	0.01
Diurnal Maximum	0.51	0.48	0.38	0.35	0.68	0.10	0.02	0.01	0.00	0.07	0.04	0.01	0.03	0.00	0.00	0.01	0.03	0.01	0.20	0.76	0.67	0.49	0.42	0.50			
Diurnal Average	0.02	0.02	0.03	0.02	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.02	0.02	0.02	0.03			

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

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

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

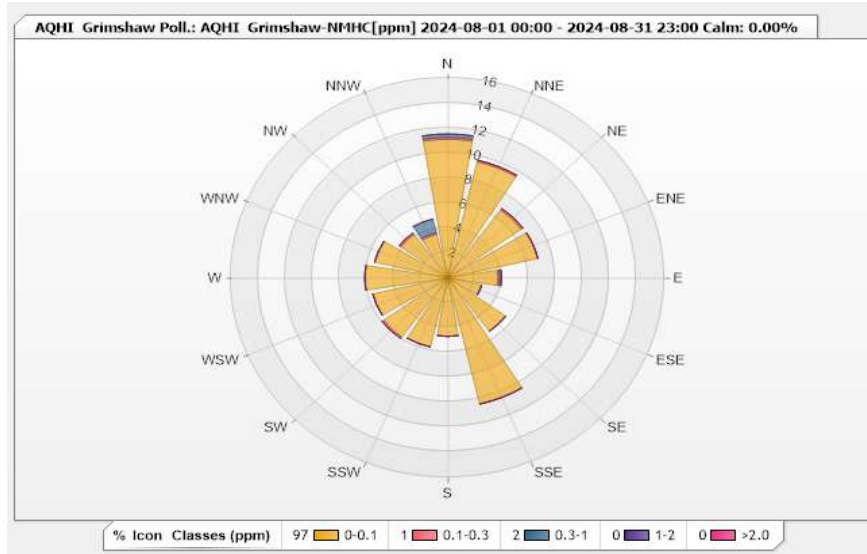


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] Monthly: 08-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	11.1	0.14	0.28	0	0	11.52
NNE	9.53	0.14	0	0	0	9.67
NE	6.69	0.14	0	0	0	6.83
ENE	6.83	0	0	0	0	6.83
E	3.7	0.14	0.14	0	0	3.98
ESE	2.56	0	0	0	0	2.56
SE	5.26	0	0	0	0	5.26
SSE	10.38	0	0	0	0	10.38
S	4.69	0	0	0	0	4.69
SSW	5.69	0	0	0	0	5.69
SW	5.83	0.14	0	0	0	5.97
WSW	5.69	0	0	0	0	5.69
W	6.12	0	0	0	0	6.12
WNW	5.55	0	0	0	0	5.55
NW	4.27	0.14	0	0	0	4.41
NNW	3.56	0.14	1.14	0	0	4.84
Summary	97.45	0.98	1.56	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - August 2024

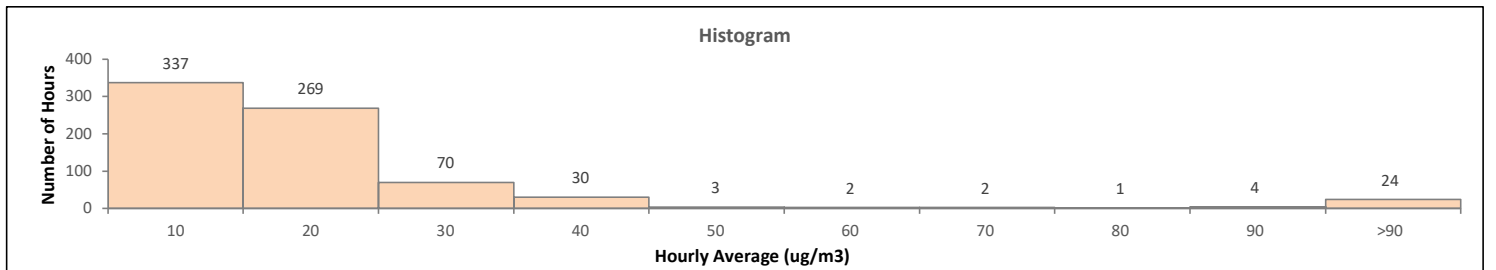
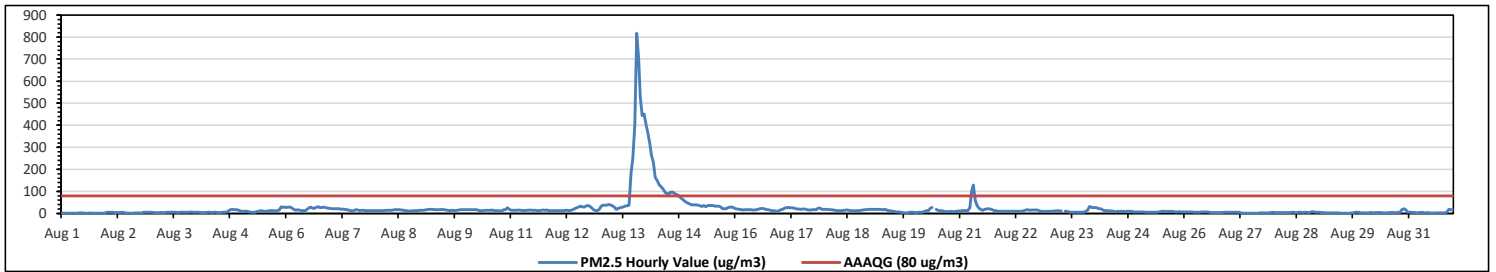
Summary of Hourly Averages

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

Alberta Ambient Air Quality Guideline (AAQG): 1-Hour 80 µg/m ³ , Alberta Ambient Air Quality Objective (AAQO): 24-Hour 29 µg/m ³																													
Number of 1-Hour Exceedances: 28													Number of 24-Hour Exceedances: 3																
Maximum Hourly Value: 817 µg/m ³ on Aug 13 at hr 19													Hours in Service: 744																
Maximum Daily Value: 179.0 µg/m ³ on Aug 13													Hours of Data: 742																
Minimum Hourly Value: 1 µg/m ³ on Aug 1 at hr 0													Hours of Missing Data: 1																
Minimum Daily Value: 2 µg/m ³ on Aug 1													Hours of Calibration: 1																
Monthly Average: 21.5 µg/m ³													Operational Uptime: 99.9																
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
Aug 1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	1	3	2.1		
Aug 2	5	5	5	5	4	4	4	4	5	4	3	2	2	2	2	3	3	3	2	2	4	5	5	6	6	2	6	3.9	
Aug 3	5	4	4	3	4	4	4	4	4	5	5	5	5	5	4	5	5	6	6	6	6	7	6	5	3	7	4.9		
Aug 4	5	5	4	4	4	4	5	5	4	5	5	4	4	4	5	5	7	11	17	18	17	16	15	12	4	18	7.7		
Aug 5	10	10	9	9	7	5	6	6	8	10	12	11	9	10	11	12	12	12	11	12	15	30	27	29	5	30	12.2		
Aug 6	27	28	28	23	16	14	16	14	12	12	13	19	26	29	23	24	29	30	26	27	28	26	24	23	12	30	22.4		
Aug 7	22	22	22	21	22	19	20	19	17	15	13	11	13	16	15	13	14	14	13	13	13	13	13	13	11	22	16.1		
Aug 8	13	12	12	13	13	14	14	14	14	15	16	17	16	16	15	15	13	12	11	11	11	13	13	13	14	11	17	13.5	
Aug 9	14	14	15	17	19	19	18	17	16	17	17	19	17	15	14	13	14	14	13	14	15	16	17	17	13	19	15.9		
Aug 10	17	17	17	17	17	16	15	13	12	12	14	14	14	14	15	13	13	12	11	11	16	16	26	18	11	26	15.0		
Aug 11	14	14	14	14	15	14	14	13	14	14	15	14	14	14	13	13	14	15	14	15	12	12	12	12	12	15	13.7		
Aug 12	13	12	12	12	13	14	14	13	14	14	16	22	26	29	32	30	28	32	36	32	26	16	13	12	19	12	36	20.3	
Aug 13	33	38	38	37	40	39	34	29	19	21	25	27	30	34	34	37	179	254	400	817	704	532	444	451	19	817	179.0		
Aug 14	405	364	316	265	232	162	149	130	121	112	100	90	89	95	97	92	86	83	75	67	61	53	48	44	44	405	139.0		
Aug 15	41	39	39	39	37	34	31	35	30	35	36	35	36	33	33	32	29	22	22	22	27	28	28	25	22	41	32.0		
Aug 16	22	20	18	16	15	16	17	17	16	15	15	17	19	22	23	21	19	16	15	13	12	11	10	11	10	23	16.5		
Aug 17	16	18	24	25	27	26	25	24	21	20	20	19	20	20	17	15	16	17	17	24	24	18	18	18	15	27	20.3		
Aug 18	19	19	17	16	15	14	13	13	12	13	14	15	15	13	13	11	12	12	13	14	15	16	17	18	11	19	14.5		
Aug 19	18	19	19	19	19	19	17	17	18	14	13	11	9	8	7	7	5	4	3	3	3	5	6	5	3	19	11.2		
Aug 20	4	4	5	5	6	10	12	13	23	27	Y	18	14	12	12	9	8	8	8	9	8	8	9	11	4	27	10.6		
Aug 21	11	12	12	12	12	26	103	129	59	34	23	16	14	18	20	21	20	16	13	12	10	10	9	9	9	129	25.9		
Aug 22	9	10	10	10	10	10	10	10	10	10	13	15	16	14	15	15	15	15	13	10	9	8	10	10	8	16	11.5		
Aug 23	10	10	11	11	12	11	11	C	10	9	7	6	5	5	5	5	5	5	5	9	14	31	29	26	5	31	11.0		
Aug 24	27	25	22	21	17	13	13	13	11	11	10	7	9	8	10	10	8	9	10	9	8	7	7	7	7	7	27	12.2	
Aug 25	7	7	7	6	5	6	6	6	6	6	7	8	10	9	8	9	8	9	8	7	7	8	7	7	5	10	7.3		
Aug 26	7	7	7	7	7	6	6	6	6	6	7	7	7	7	5	4	4	4	4	4	4	6	6	6	4	7	5.8		
Aug 27	5	5	5	5	5	5	3	2	2	2	2	2	1	2	2	2	3	3	3	3	3	3	4	5	1	5	3.2		
Aug 28	4	4	4	4	4	4	4	4	4	5	5	4	4	5	5	4	5	5	4	6	8	7	5	5	4	8	4.7		
Aug 29	5	4	4	3	3	3	3	3	3	3	3	2	2	1	2	1	2	3	3	5	6	5	3	3	1	6	3.1		
Aug 30	3	3	3	4	4	3	4	4	4	4	4	3	3	3	3	4	4	4	3	5	4	17	21	16	6	3	21	5.5	
Aug 31	5	5	4	4	3	4	4	5	3	3	4	3	2	3	3	3	3	3	3	3	6	18	17	15	2	18	5.3		
Diurnal Maximum	405	364	316	265	232	162	149	130	121	112	100	90	89	95	97	92	86	83	75	67	61	53	48	44	44	405	139.0		
Diurnal Average	25.7	24.4	22.8	20.9	19.6	17.4	19.3	19.5	16.2	15.5	14.8	14.5	14.7	15.1	14.9	14.4	18.9	21.2	25.2	38.5	35.6	31.3	27.9	27.5	2	18	5.3		
C	Monthly Calibration								S	Daily Zero-Span Check								Q	Quality Assurance										
K	Collection Error								ND	No Data (Machine Not in Service)								Y	Routine Maintenance								P	Power Failure	
X	Invalid Data (Equipment Malfunction /Recovery)								NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-." if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-." if minimum data completeness criteria of 75% of days per month is not met.																													

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

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



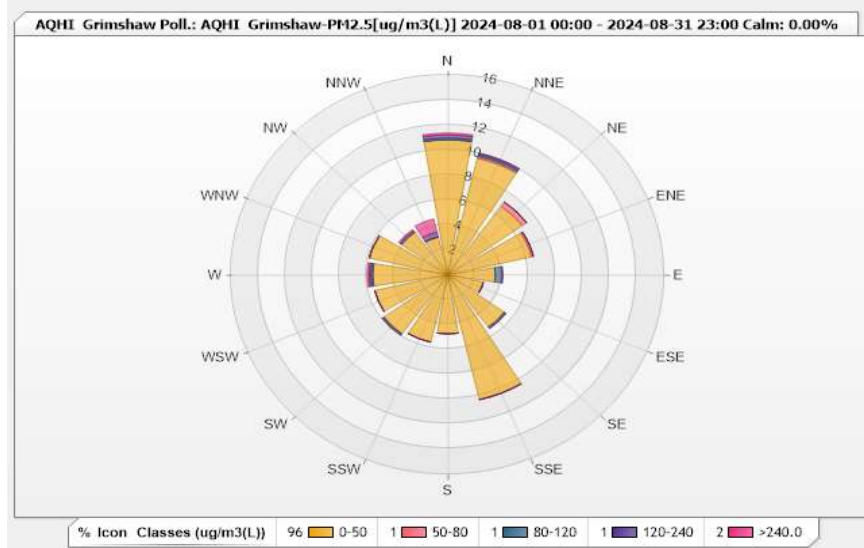
Station: AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] Monthly: 08-2024

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Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

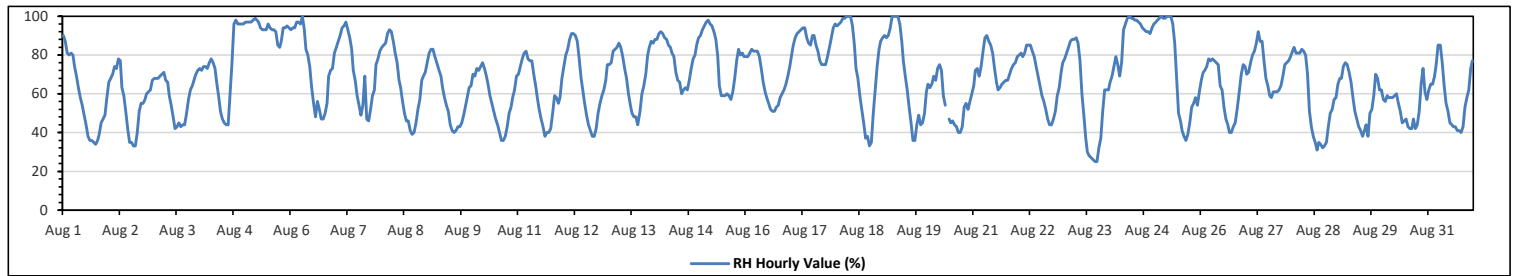
Calm: 0.00% Valid Data: 99.46% Calm Avg: 0.00 [ug/m3(L)]

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	10.81	0	0.14	0.27	0.14	11.36
NNE	9.59	0.14	0.14	0.14	0	10.01
NE	6.76	0.41	0	0	0	7.17
ENE	6.35	0.14	0	0	0	6.49
E	3.51	0	0.54	0	0	4.05
ESE	2.7	0	0	0	0	2.7
SE	5.14	0	0.14	0	0	5.28
SSE	10.27	0	0	0	0	10.27
S	4.73	0	0	0	0	4.73
SSW	5.54	0	0	0	0	5.54
SW	5.81	0	0.14	0	0	5.95
WSW	5.54	0	0	0	0	5.54
W	5.54	0	0.14	0.14	0.14	5.96
WNW	5.95	0	0	0	0	5.95
NW	4.19	0	0.14	0	0.14	4.47
NNW	3.11	0	0	0.41	1.08	4.6
Summary	95.54	0.69	1.38	0.96	1.5	100



Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Aug 6 at hr 6	Hours in Service:	744																											
Maximum Daily Value:	93.9	%	on Aug 5	Hours of Data:	743																											
Minimum Hourly Value:	25	%	on Aug 23 at hr 16	Hours of Missing Data:	1																											
Minimum Daily Value:	53.2	%	on Aug 30	Hours of Calibration:	0																											
Monthly Average:	67.6	%		Operational Uptime:	99.9																											
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average					
Aug 1	90	87	81	80	81	80	74	69	63	58	54	49	44	38	36	36	35	34	36	39	45	47	49	58	34	90	56.8					
Aug 2	66	68	70	74	73	78	77	63	59	51	42	35	35	33	33	40	51	55	55	57	60	61	62	67	33	78	56.9					
Aug 3	68	68	68	69	70	71	67	66	59	54	48	42	43	45	43	44	44	50	57	62	64	67	70	72	42	72	58.8					
Aug 4	73	72	74	74	73	76	78	76	73	66	59	51	47	45	44	44	60	76	96	98	96	96	96	96	44	98	72.5					
Aug 5	97	97	97	97	98	99	98	97	94	93	93	93	96	94	93	93	92	85	84	87	94	94	95	94	84	99	93.9					
Aug 6	93	94	94	97	97	96	100	93	83	80	74	63	55	48	56	52	47	47	50	55	69	72	73	81	47	100	73.7					
Aug 7	84	87	90	94	95	97	93	89	83	72	67	59	54	49	54	69	47	46	52	59	62	75	78	82	46	97	72.4					
Aug 8	84	85	86	91	93	92	87	81	76	67	63	56	50	46	46	41	39	40	45	52	57	67	69	71	39	93	66.0					
Aug 9	76	81	83	83	79	76	72	69	63	58	54	51	44	41	40	41	43	43	45	49	53	58	63	64	40	83	59.5					
Aug 10	70	69	73	72	74	76	73	69	64	59	55	51	47	44	40	36	36	38	43	50	53	58	62	69	36	76	57.5					
Aug 11	70	74	78	81	82	78	77	77	70	64	58	52	47	43	38	40	40	42	50	59	58	55	58	68	38	82	60.8					
Aug 12	74	80	83	88	91	91	90	87	78	68	61	55	49	44	41	38	38	42	50	55	59	62	67	75	38	91	65.3					
Aug 13	75	76	82	83	84	86	84	79	73	68	60	54	50	48	48	44	51	60	64	70	80	84	87	86	44	87	69.8					
Aug 14	88	88	91	92	91	89	88	85	84	81	79	71	67	66	60	62	63	62	67	73	78	80	85	89	60	92	78.3					
Aug 15	90	93	95	97	98	96	95	92	88	79	64	59	59	59	60	59	57	61	68	77	83	80	81	79	57	98	77.9					
Aug 16	79	79	81	83	82	82	82	79	73	66	61	58	55	52	51	51	53	54	58	60	62	65	69	74	51	83	67.0					
Aug 17	79	85	89	91	92	93	94	94	89	86	85	90	90	85	82	77	75	75	79	84	89	94	96	96	75	96	76.2					
Aug 18	95	96	97	99	99	100	100	100	95	85	73	68	59	52	45	37	38	33	35	50	62	74	83	87	33	100	83.4					
Aug 19	89	90	89	90	94	100	100	100	100	96	87	77	69	62	53	45	36	36	44	49	44	45	50	61	36	100	71.1					
Aug 20	65	63	65	69	67	73	75	72	59	54	Y	47	45	46	44	43	40	40	43	53	55	52	56	60	40	75	55.9					
Aug 21	64	72	73	69	74	82	89	90	87	85	81	73	66	62	63	65	66	67	67	70	73	75	76	79	62	90	73.7					
Aug 22	80	81	79	81	85	85	85	82	79	74	69	64	59	56	52	47	44	44	47	51	59	63	71	76	44	85	67.2					
Aug 23	78	81	84	87	88	88	89	86	77	60	49	37	30	28	27	26	25	25	32	37	51	62	62	62	25	89	57.1					
Aug 24	66	69	74	79	75	69	76	93	96	99	100	99	99	98	98	97	96	94	93	92	92	91	94	96	66	100	89.0					
Aug 25	97	98	99	100	99	99	100	100	100	96	86	68	50	46	41	38	36	39	45	53	55	58	54	61	36	100	71.6					
Aug 26	67	71	72	74	78	77	78	77	76	75	64	62	53	47	44	40	40	43	45	52	60	70	75	74	40	78	63.1					
Aug 27	70	71	76	80	82	86	92	87	87	77	68	64	59	58	61	61	61	62	64	69	75	76	77	79	58	92	72.6					
Aug 28	82	84	81	81	81	83	82	80	70	51	43	38	35	31	35	34	32	33	35	43	50	52	57	58	31	84	56.3					
Aug 29	65	68	68	74	76	75	71	66	58	51	47	43	41	38	41	44	38	50	52	59	70	68	62	62	38	76	57.8					
Aug 30	57	56	59	58	58	58	59	60	55	51	45	46	47	43	42	42	47	42	44	51	65	73	61	57	42	73	53.2					
Aug 31	62	65	65	69	75	85	85	76	64	55	51	45	46	43	43	41	41	40	43	53	58	62	73	77	40	85	59.0					
Diurnal Maximum	97	98	99	100	99	100	100	100	100	99	100	99	99	98	98	97	96	94	96	98	96	96	96	96								
Diurnal Average	77.2	79.0	80.5	82.5	83.4	84.4	84.2	81.7	76.6	70.3	64.7	58.7	54.5	51.3	50.1	49.3	48.7	50.3	54.3	60.1	65.4	68.7	71.3	74.5								
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



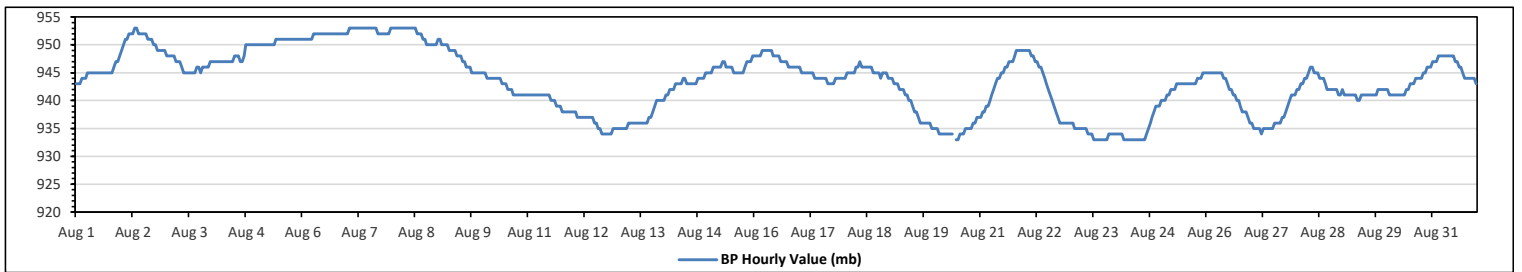
Peace River Area Monitoring Program

AQHI - Grimshaw Station - August 2024

Summary of Hourly Averages

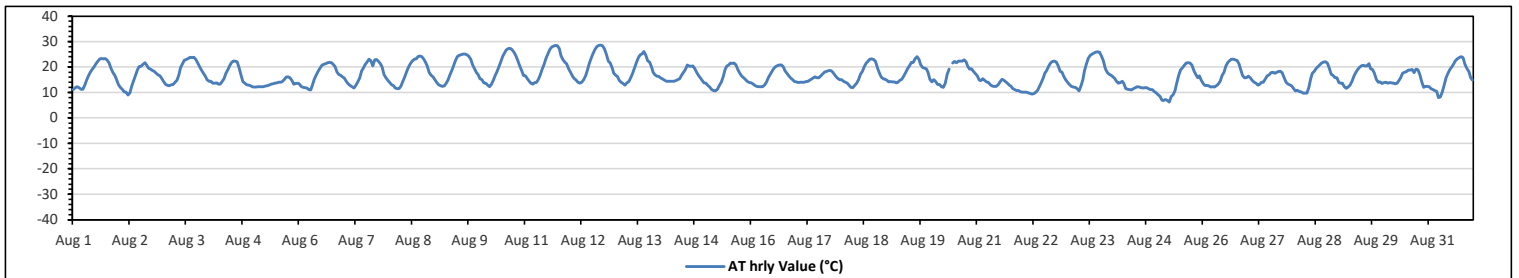
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	953	mb	on Aug 2 at hr 7	Hours in Service:	744																											
Maximum Daily Value:	953	mb	on Aug 7	Hours of Data:	743																											
Minimum Hourly Value:	933	mb	on Aug 20 at hr 11	Hours of Missing Data:	1																											
Minimum Daily Value:	934	mb	on Aug 23	Hours of Calibration:	0																											
Monthly Average:	944	mb		Operational Uptime:	99.9																											
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average					
Aug 1	943	943	943	944	944	944	945	945	945	945	945	945	945	945	945	945	945	945	945	945	946	947	947	948	943	948	945					
Aug 2	949	950	951	951	952	952	952	953	953	952	952	952	952	952	951	951	951	950	950	949	949	949	949	949	949	953	951					
Aug 3	948	948	948	948	948	947	947	947	946	945	945	945	945	945	945	945	946	946	945	946	946	946	947	945	948	946						
Aug 4	947	947	947	947	947	947	947	947	947	947	947	947	948	948	948	948	947	947	948	950	950	950	950	950	947	950	948					
Aug 5	950	950	950	950	950	950	950	950	950	950	951	951	951	951	951	951	951	951	951	951	951	951	951	951	950	951	951					
Aug 6	951	951	951	951	951	951	951	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	951	952	952					
Aug 7	952	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	952	952	952	952	952	952	952	952	952	953	953					
Aug 8	953	953	953	953	953	953	953	953	953	953	953	953	953	953	952	952	952	951	951	950	950	950	950	950	950	953	952					
Aug 9	951	951	950	950	950	950	949	949	949	949	949	948	948	948	947	947	946	946	945	945	945	945	945	945	945	945	948					
Aug 10	945	945	944	944	944	944	944	944	944	944	943	943	943	942	942	942	941	941	941	941	941	941	941	941	941	945	943					
Aug 11	941	941	941	941	941	941	941	941	941	941	941	941	940	940	940	940	939	939	939	938	938	938	938	938	938	941	940					
Aug 12	938	938	937	937	937	937	937	937	937	937	937	936	936	936	935	935	934	934	934	934	934	934	935	935	934	938	936					
Aug 13	935	935	935	935	935	936	936	936	936	936	936	936	936	936	936	936	936	937	937	938	939	940	940	940	935	940	937					
Aug 14	940	941	941	942	942	942	943	943	943	943	944	944	943	943	943	943	943	943	944	944	944	944	945	945	940	945	943					
Aug 15	945	945	946	946	946	946	946	947	947	946	946	946	946	945	945	945	945	945	945	946	947	947	947	948	945	948	946					
Aug 16	948	948	948	948	949	949	949	949	949	949	948	948	948	948	947	947	947	946	946	946	946	946	946	946	946	949	948					
Aug 17	946	945	945	945	945	945	945	945	944	944	944	944	944	944	944	943	943	943	943	944	944	944	944	944	943	946	944					
Aug 18	944	945	945	945	945	945	946	946	947	946	946	946	946	946	946	945	945	945	945	944	945	945	945	944	944	947	945					
Aug 19	944	944	943	943	943	942	942	942	941	941	940	940	939	938	938	937	936	936	936	936	936	936	936	935	935	935	939					
Aug 20	935	935	934	934	934	934	934	934	934	934	Y	933	933	934	934	934	935	935	935	935	936	936	937	937	933	937	935					
Aug 21	937	938	938	939	939	940	941	942	943	944	944	945	945	946	946	947	947	948	949	949	949	949	949	937	949	944						
Aug 22	949	949	949	948	948	947	947	946	946	945	944	943	942	941	940	939	938	937	936	936	936	936	936	936	936	949	942					
Aug 23	936	936	935	935	935	935	935	935	935	935	934	934	934	933	933	933	933	933	933	933	933	933	933	933	933	936	934					
Aug 24	934	934	934	934	933	933	933	933	933	933	933	933	933	933	933	933	934	935	936	937	938	939	939	939	933	939	935					
Aug 25	940	940	940	941	941	942	942	942	943	943	943	943	943	943	943	943	943	943	943	944	944	944	945	945	940	945	943					
Aug 26	945	945	945	945	945	945	945	945	945	944	944	943	942	942	941	941	940	940	939	938	938	938	937	936	936	945	942					
Aug 27	936	935	935	935	935	934	935	935	935	935	935	935	936	936	936	936	937	937	938	939	940	941	941	941	934	941	937					
Aug 28	942	942	943	943	944	944	945	946	946	945	945	945	944	944	944	943	942	942	942	942	942	941	941	941	941	946	943					
Aug 29	942	941	941	941	941	941	941	941	941	940	940	941	941	941	941	941	941	941	941	941	942	942	942	942	940	942	941					
Aug 30	942	941	941	941	941	941	941	941	941	941	941	942	943	943	943	944	944	944	944	945	945	946	946	946	941	946	943					
Aug 31	947	947	947	948	948	948	948	948	948	948	948	948	947	947	946	946	945	944	944	944	944	944	944	943	943	948	946					
Diurnal Maximum	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	952	952	952	952	952	952	952	952	953							
Diurnal Average	944	944	944	944	944	944	944	944	944	944	944	944	944	943	943	943	943	943	943	943	943	944	944	944								
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



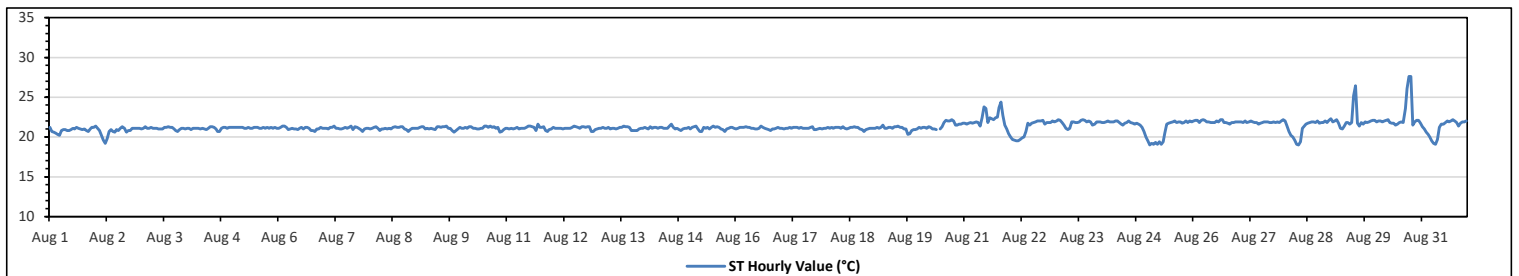
Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	28.6	°C	on Aug 12 at hr 16	Hours in Service:	744																																						
Maximum Daily Value:	20.8	°C	on Aug 12	Hours of Data:	743																																						
Minimum Hourly Value:	6.2	°C	on Aug 25 at hr 6	Hours of Missing Data:	1																																						
Minimum Daily Value:	12.3	°C	on Aug 24	Hours of Calibration:	0																																						
Monthly Average:	16.8	°C		Operational Uptime:	99.9																																						
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average																
Aug 1	11.2	11.9	12.2	11.9	11.3	11.3	12.9	14.6	16.4	18	19	20.1	21.3	22.4	23.2	23.3	23.2	23.3	22.7	21.6	19.4	17.8	16.7	15.2	11.2	23.3	17.5																
Aug 2	13.2	12	11.3	10.3	10.1	9.1	9.9	12.7	14.8	17	19.1	20.2	20.3	21.1	21.7	20.8	19.6	19.2	18.7	18.3	17.5	17	16.6	15.5	9.1	21.7	16.1																
Aug 3	14.2	13.2	12.8	12.7	13.1	13.2	14	14.8	17	19.8	21.2	22.7	22.9	23.3	23.9	23.8	23.9	22.9	21.6	20.3	18.9	17.7	16.6	15.1	12.7	23.9	18.3																
Aug 4	14.5	14.5	13.6	13.6	13.8	13.3	13.3	14.3	15.5	17.5	18.9	20.3	21.7	22.4	22.4	22.1	19.9	17	14.3	13.6	13.1	12.9	12.6	12.3	12.3	22.4	16.1																
Aug 5	12.1	12.1	12.2	12.3	12.3	12.3	12.5	12.7	13	13.3	13.4	13.7	13.8	14.1	14.1	14.3	15	16	16.2	15.9	14.7	13.3	13.5	13.7	12.1	16.2	13.6																
Aug 6	13.4	12.4	12	11.9	11.8	11.1	11	12.8	15.2	16.8	18.3	19.6	20.7	21.1	21.3	21.7	21.8	21.7	21	20.2	18.1	17.1	16.8	16.1	11.0	21.8	16.8																
Aug 7	15.7	14.4	13.4	12.8	12.2	11.8	12.8	14.2	15.7	18.5	19.8	21	21.9	23.1	22.5	20.5	22.8	22.9	22.4	21.4	20	17.1	15.9	14.7	11.8	23.1	17.8																
Aug 8	13.9	13.1	12.6	11.8	11.6	11.5	12.5	14.5	16.2	18.3	20.1	21.4	22.5	23.1	23.2	24.1	24.3	24	23.3	22.1	20.5	18	16.8	16.1	11.5	24.3	18.1																
Aug 9	15.1	13.9	13.1	12.6	12.4	12.7	13.8	14.9	17	18.7	20.7	22.5	24	24.6	24.9	25.1	25.2	24.9	24.2	23.1	20.9	19.3	17.8	17.1	12.4	25.2	19.1																
Aug 10	15.5	15	13.8	13.6	12.9	12.3	13.3	14.9	16.5	18.2	20.1	22.1	24.2	25.6	26.7	27.2	27.4	26.9	25.9	24.5	22.6	20.5	18.7	16.7	12.3	27.4	19.8																
Aug 11	16.5	15.4	14.4	13.7	13.3	13.9	13.9	15	16.8	19.1	21	23.3	25.2	26.9	27.9	28.2	28.5	28.4	27.2	24.5	23	21.9	21.2	19.3	13.3	28.5	20.8																
Aug 12	17.9	16.4	15.6	14.9	14.1	13.7	14	15	16.5	18.9	21.2	23.3	25.3	26.8	28	28.5	28.6	28.3	27.1	25	22.4	21.5	19.8	17.5	13.7	28.6	20.8																
Aug 13	16.8	16.2	14.8	14.1	13.5	13	13.8	14.3	15.9	17.5	19.8	21.8	23.7	24.9	25.3	26.1	24.7	22.5	21.9	20	18	17	16.4	16.3	13.0	26.1	18.7																
Aug 14	15.7	15.3	14.8	14.5	14.4	14.5	14.5	14.5	14.6	15	15.4	16.8	18	19	20.8	20.3	20.3	20.5	19.4	18	16.7	15.7	14.8	13.8	13.8	20.8	16.6																
Aug 15	13.6	12.8	12.1	11.1	10.7	10.6	11.3	12.8	14	16.1	19	20.3	20.9	21.5	21.4	21.6	20.9	18.9	17.5	16.4	15.8	15	14.3	13.9	10.6	21.6	15.9																
Aug 16	13.8	13.3	12.8	12.4	12.2	12.2	12.3	12.9	14.1	15.8	16.9	18.2	19.5	20.2	20.6	20.9	20.8	20	18.6	17.5	16.5	15.7	15.1	14.3	12.2	20.9	16.1																
Aug 17	14.2	13.9	14	14.1	14.1	14.3	14.4	14.7	15.3	15.8	16.1	15.8	15.9	16.5	17.3	18.1	18.4	18.6	18.7	18.2	17.2	16.1	15.6	15	13.9	18.7	15.9																
Aug 18	15	14.5	14.1	13.7	12.9	12	11.9	12.8	13.6	15.1	17.2	18.4	20.2	21.5	22.2	23.1	23.2	23	22.2	19.8	17.7	16	15.4	15.2	11.9	23.2	17.1																
Aug 19	14.7	14.2	14.3	14.2	14.2	13.8	14.1	14.7	15.2	16.4	17.8	19.3	20.4	21.8	21.8	23.3	24.1	22.9	21	19.9	19.6	19.3	18	15.2	13.8	24.1	17.9																
Aug 20	14.2	15	14.3	13.2	13.2	12.2	12	13.7	17.2	19.2	Y	21.5	22.2	21.7	22.4	22.4	22.4	22.8	22.1	20.3	19.2	19.3	18.4	17.4	12.0	22.8	18.1																
Aug 21	16.5	14.9	14.6	15.5	14.8	14.2	13.9	13.1	12.5	12.4	12.4	13.1	14.2	15.2	14.9	14.3	13.7	13	12.5	11.6	11.1	10.8	10.7	10.3	10.3	16.5	13.3																
Aug 22	10.2	10.1	10.1	9.9	9.6	9.4	9.5	10	10.7	12.2	13.9	15.7	17.5	18.7	20.3	21.5	22.2	22.4	22	20.4	18.4	18	16.4	15	9.4	22.4	15.2																
Aug 23	14.1	13.2	12.4	12.1	12	11.5	10.6	12.5	15.1	18.6	21.2	23.5	24.6	25.1	25.5	25.8	26	25.9	24.4	22.5	19.4	17.9	17.2	16.8	10.6	26.0	18.7																
Aug 24	16.1	15.4	14.4	13.7	13.9	14.4	13.5	11.5	11.3	11.1	11	11.6	11.9	12.2	12.1	11.9	11.8	11.9	11.9	11.5	11.2	11.1	10.4	9.9	9.9	16.1	12.3																
Aug 25	9.2	8.5	7	6.8	7.3	6.8	6.2	8.4	9.2	10.8	13.5	16.6	18.8	19.7	20.7	21.5	21.7	21.5	20.7	18.6	17.1	15.9	16.6	14.8	6.2	21.7	14.1																
Aug 26	13.5	12.8	12.8	12.7	12.1	12.2	12.1	12.6	13.3	14.5	16.7	18	20.4	21.8	22.5	23.1	23.1	22.8	22.6	21.2	18.7	16.7	15.8	15.8	12.1	23.1	17.0																
Aug 27	16.4	15.8	14.8	14.1	13.7	13	13.2	14	14	15.3	16.6	17	17.8	17.9	17.6	18	18.4	18.3	17.7	15.8	14	13.4	13.1	12.7	12.7	18.4	15.5																
Aug 28	11.7	10.6	10.9	10.5	10.3	9.8	9.7	9.8	11.9	15.4	17.5	18.3	19.4	20.2	20.8	21.6	22	22.1	21.5	19.6	17.2	16.7	15.8	15.8	9.7	22.1	15.8																
Aug 29	13.9	13.6	13.7	12.3	11.7	12.1	12.9	14.4	16.4	17.9	19	19.9	20.5	20.7	20.5	20.4	21.3	19.3	19	17.6	15.2	14	14.2	13.5	11.7	21.3	16.4																
Aug 30	13.9	14	13.6	13.9	13.8	13.7	13.4	13.6	14.8	15.8	17.5	18	18.2	18.8	18.8	19	17.8	19.2	18.9	17.1	14.2	12	12.4	12.4	12.0	19.2	15.6																
Aug 31	12.3	11.6	11.2	10.7	10.4	7.9	8.2	10.1	12.9	15.9	17.6	19.1	20	21.1	22.5	23.2	23.7	24.1	23.7	21.1	19.5	18.3	15.9	14.9	7.9	24.1	16.5																
Diurnal Maximum	17.9	16.4	15.6	15.5	14.8	14.5	14.5	15.0	17.2	19.8	21.2	23.5	25.3	26.9	28.0	28.5	28.6	28.4	27.2	25.0	23.0	21.9	21.2	19.3																			
Diurnal Average	14.2	13.5	13.0	12.6	12.4	12.1	12.3	13.3	14.6	16.3	17.7	19.1	20.3	21.1	21.5	21.8	21.8	21.5	20.7	19.3	17.7	16.5	15.8	14.9																			
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance																				
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance										P	Power Failure									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																															
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																											



Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	27.6	°C	on Aug 30 at hr 17	Hours in Service:	744																											
Maximum Daily Value:	22.6	°C	on Aug 30	Hours of Data:	743																											
Minimum Hourly Value:	19.0	°C	on Aug 25 at hr 1	Hours of Missing Data:	1																											
Minimum Daily Value:	20.7	°C	on Aug 2	Hours of Calibration:	0																											
Monthly Average:	21.3	°C		Operational Uptime:	99.9																											
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average						
Aug 1	21.2	20.7	20.6	20.5	20.3	20.2	20.8	20.9	20.9	20.8	20.8	20.9	21.1	21.0	21.2	21.1	21.1	20.9	21.0	20.8	20.7	21.0	21.2	21.2	20.2	21.2	20.9					
Aug 2	21.4	21.1	20.8	20.2	19.6	19.2	19.8	20.7	20.9	20.7	20.6	20.9	20.8	21.1	21.3	21.1	20.6	20.8	20.8	21.1	21.1	21.1	21.1	21.1	19.2	21.4	20.7					
Aug 3	21.0	21.1	21.3	21.1	21.1	21.2	21.1	21.1	21.1	21.0	21.0	21.0	21.2	21.2	21.3	21.3	21.2	21.2	21.0	20.8	20.7	20.9	21.1	21.1	21.0	20.7	21.3					
Aug 4	21.1	21.1	20.9	21.1	21.1	21.1	21.1	21.0	21.1	21.0	21.1	21.0	21.1	21.3	21.3	21.2	21.0	20.7	20.7	21.1	21.2	21.2	21.1	21.2	21.2	20.7	21.3					
Aug 5	21.2	21.2	21.2	21.2	21.2	21.2	21.1	21.1	21.2	21.1	21.1	21.2	21.2	21.2	21.1	21.1	21.2	21.1	21.2	21.1	21.2	21.1	21.2	21.1	21.1	21.2	21.2					
Aug 6	21.1	21.2	21.4	21.4	21.2	20.9	21.0	21.1	21.0	21.0	20.9	21.1	21.2	21.0	21.2	21.2	21.1	20.8	20.8	20.7	21.0	21.0	21.2	21.1	20.7	21.4	21.1					
Aug 7	21.1	21.1	21.0	21.2	21.2	21.4	21.1	21.1	21.0	21.0	21.1	21.2	21.1	21.2	21.4	20.9	21.3	21.2	21.1	20.9	20.7	21.0	21.1	21.1	20.7	21.4	21.1					
Aug 8	21.0	21.1	21.2	21.3	21.1	20.8	21.0	21.0	21.1	21.0	21.1	21.0	21.2	21.3	21.2	21.2	21.3	21.3	21.0	20.9	20.7	20.9	21.1	21.1	20.7	21.3	21.1					
Aug 9	21.1	21.1	21.2	21.3	21.3	21.0	21.1	21.0	21.1	21.0	21.1	20.9	21.3	21.3	21.2	21.3	21.3	21.4	21.1	21.1	20.8	20.6	20.8	21.0	21.2	20.6	21.4					
Aug 10	21.1	21.1	21.2	21.1	21.3	21.3	21.1	21.1	21.0	21.0	21.1	21.1	21.1	21.4	21.4	21.2	21.4	21.2	21.3	21.1	21.2	20.6	20.7	20.9	21.1	20.6	21.4					
Aug 11	21.1	21.0	21.1	21.0	21.1	21.2	21.0	21.1	21.1	21.1	21.1	21.2	21.4	21.4	21.3	21.2	20.8	21.6	21.2	21.2	21.3	20.8	20.7	20.9	21.0	20.7	21.6					
Aug 12	21.2	21.1	21.1	21.1	21.1	21.0	21.1	21.1	21.1	21.1	21.1	21.2	21.4	21.3	21.2	21.1	21.3	21.3	21.2	21.3	21.3	20.7	20.7	20.9	21.0	20.7	21.4					
Aug 13	21.1	21.1	21.2	21.1	21.1	21.2	21.0	21.1	21.1	21.1	21.0	21.1	21.2	21.2	21.4	21.3	21.3	21.2	20.8	20.8	20.8	20.8	21.0	21.1	21.1	20.8	21.4					
Aug 14	21.2	21.1	21.0	21.3	21.1	21.2	21.2	21.1	21.2	21.2	21.2	21.1	21.1	21.1	21.4	21.6	21.2	21.0	21.1	20.9	20.8	21.0	21.1	21.1	21.2	20.8	21.6					
Aug 15	21.0	21.2	21.3	21.4	21.0	20.7	20.7	21.2	21.1	21.2	21.0	21.2	21.4	21.2	21.3	21.2	21.1	21.0	20.9	20.7	21.0	21.1	21.2	21.2	21.1	20.7	21.4					
Aug 16	21.0	21.1	21.2	21.2	21.2	21.2	21.3	21.2	21.2	21.1	21.1	21.0	21.0	21.1	21.4	21.2	21.1	21.0	20.9	20.8	21.0	21.0	21.1	21.2	21.1	20.8	21.4					
Aug 17	21.1	21.0	21.1	21.1	21.2	21.1	21.2	21.2	21.2	21.1	21.2	21.1	21.1	21.1	21.1	21.1	21.2	21.3	20.9	20.9	21.0	21.1	21.0	21.1	21.1	20.9	21.3					
Aug 18	21.2	21.1	21.2	21.1	21.2	21.2	21.2	21.1	21.3	21.1	21.0	21.1	21.2	21.2	21.3	21.2	21.2	21.0	20.9	20.7	20.9	21.0	21.1	21.1	20.7	21.3						
Aug 19	21.1	21.1	21.2	21.1	21.2	21.5	21.1	21.1	21.2	21.2	21.2	21.1	21.3	21.3	21.4	21.2	21.2	21.0	21.0	20.3	20.4	20.8	20.9	20.9	21.0	20.3						
Aug 20	21.2	21.1	21.2	21.2	21.1	21.3	21.2	21.0	21.0	20.9	Y	21.0	21.3	21.8	22.1	22.0	22.0	22.2	22.0	21.5	21.5	21.6	21.6	21.7	20.9	22.2						
Aug 21	21.7	21.6	21.7	21.8	21.7	21.8	21.9	21.8	21.4	22.4	23.8	23.6	21.8	22.4	22.3	22.2	22.4	22.5	23.7	24.4	22.7	21.5	21.0	20.4	20.4	24.4						
Aug 22	20.0	19.7	19.6	19.5	19.5	19.7	19.9	20.0	20.7	21.7	21.5	21.7	21.8	21.9	22.0	22.0	22.0	22.1	21.6	21.8	21.8	21.8	22.0	21.9	19.5	22.1						
Aug 23	22.0	22.2	22.1	21.8	21.5	21.1	20.9	21.1	21.9	21.9	21.8	21.8	21.9	22.1	22.2	22.1	21.9	22.0	21.9	21.5	21.6	21.9	21.9	21.9	20.9	22.2						
Aug 24	21.8	21.8	21.9	22.0	21.9	21.9	21.9	22.0	22.0	21.8	21.6	21.5	21.7	21.8	22.0	21.8	21.7	21.6	21.7	21.6	21.5	21.2	20.7	20.0	20.0	22.0						
Aug 25	19.5	19.0	19.2	19.1	19.3	19.1	19.4	19.1	19.4	20.5	21.6	21.7	21.8	21.9	22.0	21.8	21.9	21.9	21.7	21.8	22.0	21.8	22.0	21.9	19.0	22.0						
Aug 26	22.0	22.1	22.1	21.8	22.1	22.2	22.1	21.9	21.9	21.8	21.8	21.8	22.0	21.9	22.2	22.2	21.8	21.8	21.7	21.6	21.8	21.8	21.9	21.9	21.6	22.2						
Aug 27	21.9	21.9	21.8	22.0	21.8	21.9	22.0	21.9	21.8	21.8	21.6	21.7	21.8	21.9	21.9	21.9	21.8	21.8	21.9	21.8	21.9	21.8	22.0	22.2	21.6	22.2						
Aug 28	22.0	21.4	20.7	20.2	20.0	19.6	19.1	19.0	19.4	21.1	21.4	21.6	21.7	21.8	21.9	21.9	21.8	22.0	21.7	21.8	21.8	22.0	21.8	22.1	19.0	22.1						
Aug 29	22.3	21.9	22.0	22.2	21.7	21.1	21.0	21.4	21.8	21.8	21.6	21.8	25.2	26.4	21.7	21.4	21.8	21.6	21.9	21.8	21.9	22.0	22.1	22.1	21.0	26.4						
Aug 30	21.9	22.0	22.0	21.9	22.0	22.1	22.2	21.8	21.7	21.7	21.5	21.6	21.8	21.9	21.8	23.6	26.1	27.6	27.6	21.5	21.9	22.1	22.1	21.7	21.5	27.6						
Aug 31	21.3	21.0	20.6	20.3	20.0	19.5	19.2	19.1	19.7	21.2	21.6	21.6	21.8	22.0	21.9	22.0	22.2	22.0	21.8	21.4	21.7	21.9	21.9	22.0	19.1	22.2						
Diurnal Maximum	22.3	22.2	22.1	22.2	22.1	22.2	22.2	22.0	22.0	22.4	23.8	23.6	25.2	26.4	22.3	23.6	26.1	27.6	27.6	24.4	22.7	22.1	22.1	22.2								
Diurnal Average	21.3	21.2	21.2	21.1	21.0	21.0	21.0	21.1	21.2	21.3	21.4	21.5	21.7	21.5	21.5	21.5	21.6	21.6	21.5	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3					
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance									
K	Collection Error										ND	No Data (Machine Not in Service)										Y	Routine Maintenance									
X	Invalid Data (Equipment Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)										P	Power Failure									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																



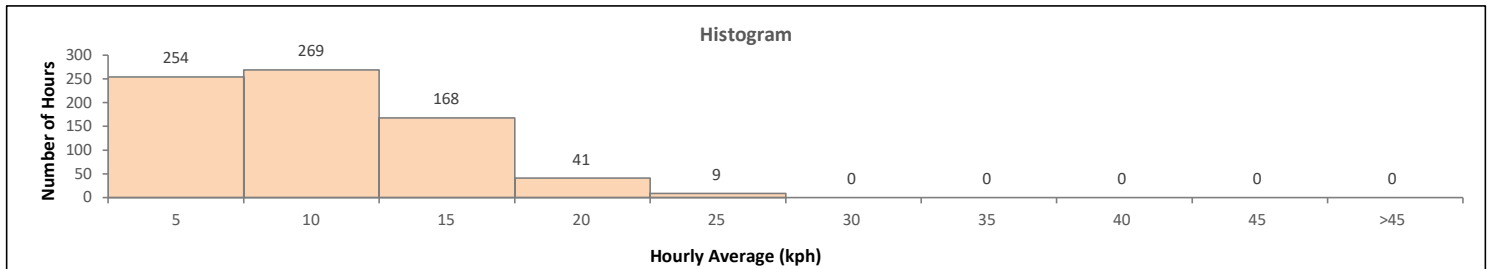
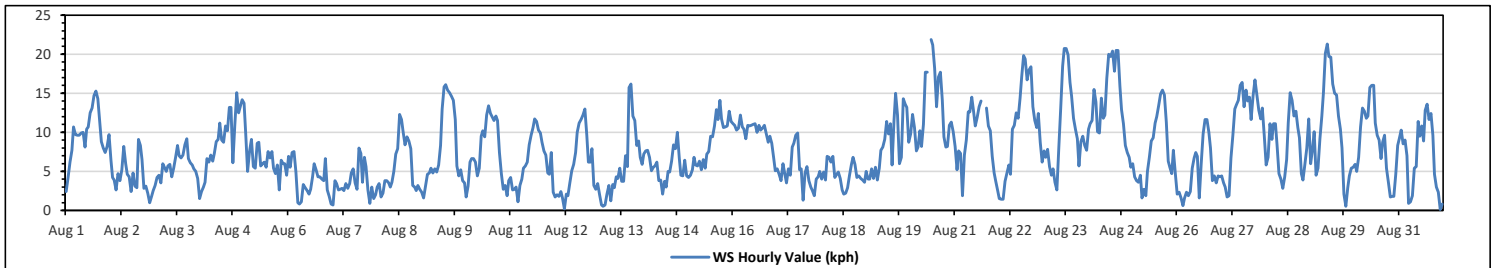
Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	21.9	kph	on Aug 20 at hr 11	Hours in Service:	744
Maximum Daily Value:	13.5	kph	on Aug 24	Hours of Data:	741
Minimum Hourly Value:	0.1	kph	on Aug 31 at hr 22	Hours of Missing Data:	1
Minimum Daily Value:	3.6	kph	on Aug 7	Hours of Calibration:	2
Monthly Average:	7.7	kph		Operational Uptime:	99.9

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average
Aug 1	2.4	4.2	6.2	7.7	10.7	9.7	9.6	9.6	9.9	10.0	8.1	10.4	10.7	12.5	13.1	14.7	15.3	14.3	11.8	8.8	8.0	7.4	8.2	9.7	2.4	15.3	9.7
Aug 2	6.4	4.2	3.9	2.6	4.7	3.8	5.2	8.2	6.0	4.6	4.3	2.4	4.8	3.1	2.9	9.1	8.3	6.5	2.8	3.1	2.2	1.0	1.8	2.5	1.0	9.1	4.4
Aug 3	3.2	4.2	4.5	3.5	6.0	5.5	5.0	5.7	5.9	4.3	5.4	6.8	8.3	7.0	6.7	7.1	8.4	9.2	6.6	6.1	5.8	5.3	5.0	4.1	3.2	9.2	5.8
Aug 4	1.5	2.4	3.0	3.6	6.6	6.2	7.1	6.3	7.3	8.8	9.1	11.2	9.0	8.7	10.8	10.2	13.2	13.2	6.1	10.9	15.1	12.5	13.3	14.2	1.5	15.1	8.8
Aug 5	13.7	9.9	5.0	7.5	9.1	5.6	5.4	8.6	8.7	5.7	6.0	6.2	5.5	7.5	6.7	7.5	5.4	4.7	5.8	2.6	6.4	6.0	6.0	4.5	2.6	13.7	6.7
Aug 6	6.9	5.5	7.4	7.5	4.9	1.0	0.8	1.1	3.3	2.9	2.5	2.1	2.7	4.3	6.0	5.2	4.3	4.3	4.0	3.8	6.6	2.6	1.8	0.8	0.8	7.5	3.8
Aug 7	0.7	3.8	3.4	2.6	2.7	2.8	2.5	3.4	2.8	3.4	4.8	5.3	3.5	2.7	8.0	7.3	3.6	6.8	5.6	2.6	0.9	3.0	1.5	2.0	0.7	8.0	3.6
Aug 8	3.0	3.4	1.7	2.2	3.8	3.8	3.5	3.0	3.6	5.0	7.2	7.9	12.3	11.6	10.1	8.4	9.4	8.9	7.9	3.2	3.0	2.5	3.2	2.7	1.7	12.3	5.5
Aug 9	2.3	1.6	3.1	4.6	4.8	5.4	4.8	5.3	4.9	5.8	8.3	13.0	15.8	16.1	15.4	15.1	14.6	14.1	11.6	5.7	4.4	5.2	3.8	3.5	1.6	16.1	7.9
Aug 10	1.7	3.1	6.2	6.6	6.6	6.2	4.4	5.4	9.5	10.2	9.4	12.2	13.4	12.4	12.0	11.5	12.1	11.5	7.4	4.7	2.7	3.2	1.9	3.8	1.7	13.4	7.4
Aug 11	4.2	2.6	2.7	3.0	1.1	3.2	4.0	5.4	5.7	6.2	8.4	9.6	10.6	11.7	11.4	10.3	9.9	8.7	7.6	7.1	4.8	4.6	7.4	2.3	1.1	11.7	6.4
Aug 12	1.7	2.0	1.8	2.4	1.6	0.2	2.1	1.9	3.5	5.1	5.9	7.4	10.0	11.2	11.6	12.2	13.0	9.6	6.2	6.2	7.9	3.2	2.7	3.4	0.2	13.0	5.5
Aug 13	2.0	0.7	0.5	0.7	2.1	3.2	1.2	3.3	2.9	4.3	4.1	5.4	3.7	3.7	7.0	5.6	15.7	16.2	12.1	11.5	8.3	8.9	6.8	5.9	0.5	16.2	5.7
Aug 14	7.2	7.6	7.7	6.8	5.1	5.5	5.7	6.2	3.8	3.9	2.1	3.7	3.0	5.0	4.9	6.3	8.4	7.9	10.0	6.7	4.5	4.4	6.4	4.4	2.1	10.0	5.7
Aug 15	4.2	4.5	5.2	6.8	5.8	5.7	6.3	5.2	6.5	5.4	7.2	7.5	9.5	9.4	10.8	12.9	11.6	14.1	11.7	10.6	10.7	10.8	12.7	11.4	4.2	14.1	8.6
Aug 16	11.1	10.9	10.3	10.5	12.2	10.7	10.4	9.2	10.9	10.8	10.9	11.0	11.1	10.0	10.9	10.3	10.5	10.9	9.8	8.7	9.5	8.6	6.7	5.1	5.1	12.2	10.0
Aug 17	5.3	4.6	3.8	6.0	4.6	3.5	5.3	4.5	8.1	8.6	9.6	9.9	5.2	5.3	1.3	4.8	5.6	3.8	3.0	2.5	1.9	4.0	4.3	5.0	1.3	9.9	5.0
Aug 18	4.0	4.9	3.9	6.9	6.8	6.2	6.9	4.2	4.6	4.9	4.1	2.6	2.1	2.2	2.9	4.5	5.9	6.8	5.9	4.2	4.4	4.1	3.9	3.6	2.1	6.9	4.6
Aug 19	5.0	4.0	4.0	5.3	4.1	5.5	3.9	5.4	7.7	8.1	9.1	11.4	9.8	11.1	5.8	11.5	15.0	12.2	6.0	6.8	14.3	13.6	13.2	8.7	3.9	15.0	8.4
Aug 20	9.8	12.3	10.6	7.6	8.1	10.2	8.2	11.0	17.7	17.7	Y	21.9	21.2	18.2	13.3	17.1	17.7	14.1	9.4	8.1	8.2	10.9	11.3	10.1	7.6	21.9	12.8
Aug 21	8.2	5.2	7.6	7.3	1.9	7.1	9.0	12.6	12.6	14.5	12.9	10.8	11.9	13.3	14.0	C	C	13.1	10.8	10.2	6.9	4.8	3.7	2.5	1.9	14.5	9.1
Aug 22	1.5	1.4	1.4	3.7	4.8	5.8	4.6	10.4	10.9	12.5	11.8	14.4	17.1	19.8	19.4	16.7	18.0	18.4	13.3	11.5	10.6	12.4	8.7	6.2	1.4	19.8	10.6
Aug 23	7.6	6.8	7.8	5.6	4.5	5.3	3.6	2.6	8.0	13.1	18.5	20.7	20.7	19.9	16.4	14.6	11.8	10.4	9.2	5.7	8.8	9.5	8.3	7.7	2.6	20.7	10.3
Aug 24	10.4	11.1	11.5	15.5	13.9	10.1	9.9	14.4	11.8	12.2	16.9	20.0	19.7	20.4	17.8	20.5	20.5	15.9	12.9	11.1	8.3	7.4	6.8	5.5	5.5	20.5	13.5
Aug 25	6.0	4.3	3.8	3.6	4.5	1.6	2.7	1.9	5.0	6.8	8.9	9.3	11.2	12.0	13.4	14.9	15.4	14.8	11.3	6.3	5.5	4.7	7.7	4.8	1.6	15.4	7.5
Aug 26	2.1	2.3	1.6	0.6	1.6	2.3	1.9	2.4	5.4	6.7	7.4	6.9	1.6	6.0	9.8	11.6	11.6	10.0	8.0	3.8	4.4	3.5	4.4	4.3	0.6	11.6	5.0
Aug 27	4.4	3.5	3.0	1.7	1.9	6.7	9.6	13.0	13.5	14.1	16.0	16.4	13.3	15.4	14.0	14.5	11.6	14.6	16.7	14.8	12.8	11.7	13.1	9.6	1.7	16.7	11.1
Aug 28	5.8	6.8	11.1	9.1	11.1	11.1	8.4	4.7	4.0	2.8	4.3	6.5	11.2	15.1	14.1	12.1	12.7	10.6	9.3	4.7	3.9	5.9	8.0	11.7	2.8	15.1	8.5
Aug 29	6.0	7.9	10.1	4.5	5.4	9.2	12.1	15.1	20.1	21.3	19.7	19.6	16.2	15.0	14.8	12.1	10.4	8.0	2.1	0.5	2.9	4.4	5.4	5.5	0.5	21.3	10.3
Aug 30	5.9	5.0	6.8	10.7	13.1	12.7	11.8	12.1	15.7	16.0	16.0	11.2	9.6	9.0	6.6	8.7	9.6	5.4	3.6	1.7	1.8	1.8	4.6	8.3	1.7	16.0	8.7
Aug 31	9.2	10.3	8.5	9.0	7.0	0.9	1.1	1.9	5.4	5.6	11.4	9.5	10.8	8.9	12.8	13.6	11.6	12.4	9.6	4.6	3.0	2.3	0.1	0.8	0.1	13.6	7.1
Diurnal Maximum	13.7	12.3	11.5	15.5	13.9	12.7	12.1	15.1	20.1	21.3	19.7	21.9	21.2	20.4	19.4	20.5	20.5	18.4	16.7	14.8	15.1	13.6	13.3	14.2			
Diurnal Average	5.3	5.2	5.4	5.7	5.8	5.7	5.7	6.6	7.9	8.4	9.0	10.1	10.2	10.6	10.5	11.0	11.4	10.7	8.3	6.4	6.4	6.1	6.2	5.6			

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

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

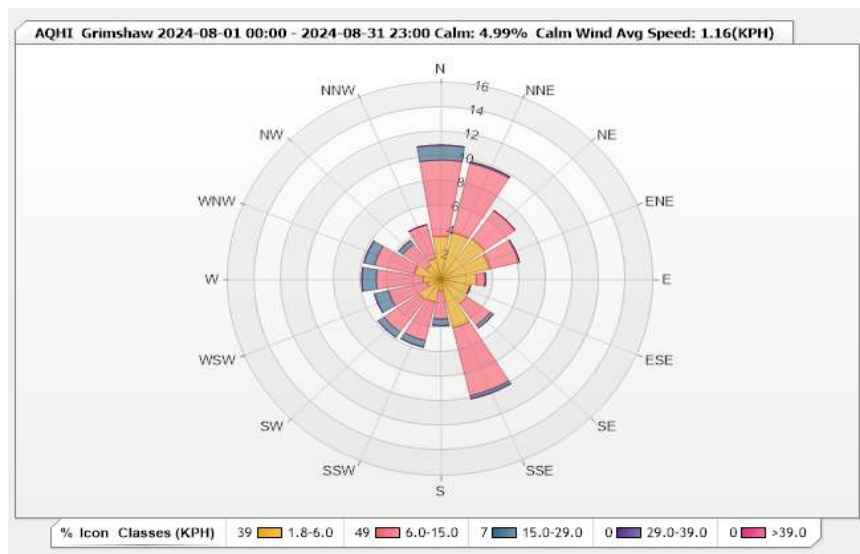


Station: AQHI Grimshaw Monitor: WDS [KPH] Monthly: 08-2024

Type: Wind Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

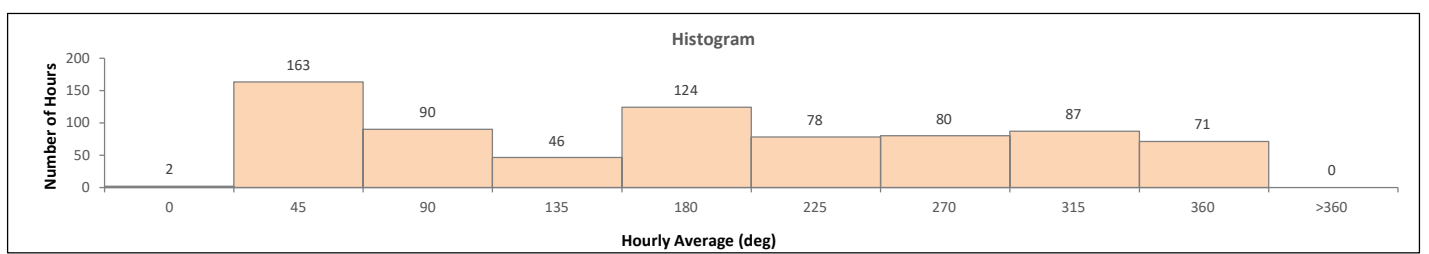
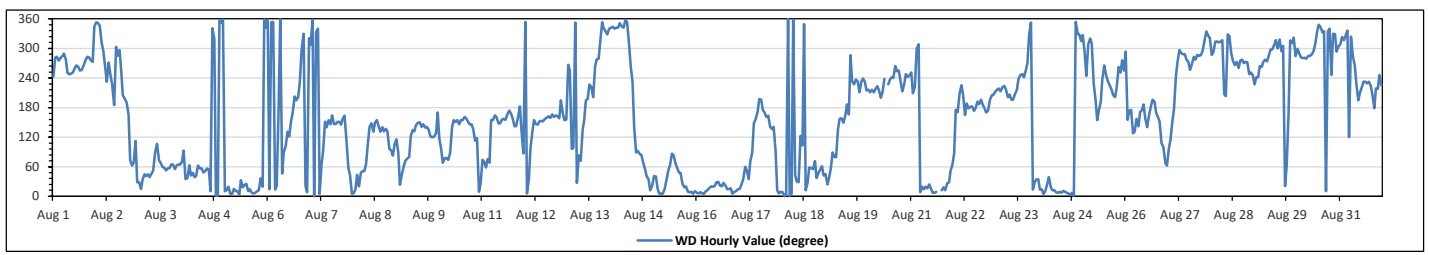
Calm (WS<1.8kph): 4.99% Valid Data: 99.60%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	3.51	6.21	1.21	0	0	10.93
NNE	3.91	5.8	0.13	0	0	9.84
NE	4.05	2.83	0	0	0	6.88
ENE	3.78	2.29	0	0	0	6.07
E	2.7	0.67	0	0	0	3.37
ESE	2.29	0	0	0	0	2.29
SE	2.43	2.16	0.27	0	0	4.86
SSE	4.05	5.67	0.27	0	0	9.99
S	0.94	2.29	0.54	0	0	3.77
SSW	1.89	3.24	0.54	0	0	5.67
SW	2.02	3.24	0.54	0	0	5.8
WSW	1.08	2.97	1.08	0	0	5.13
W	1.35	3.51	1.08	0	0	5.94
WNW	2.02	3.1	0.81	0	0	5.93
NW	1.35	2.16	0.4	0	0	3.91
NNW	1.75	2.83	0	0	0	4.58
Summary	39.12	48.97	6.87	0	0	94.96



Peace River Area Monitoring Program
AQHI - Grimshaw Station - August 2024
Summary of Hourly Averages
WIND DIRECTION (VWD) in sector

Monthly Average:		11 (NNE) degree															Hours in Service:		744																																												
																	Hours of Data:		741																																												
																	Hours of Missing Data:		1																																												
																	Hours of Calibration:		2																																												
																	Operational Uptime:		99.9																																												
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																																					
Aug 1	WSW	W	W	W	W	WNW	WNW	W	WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	W	W	W	W	W	W	NNW	271	W																																					
Aug 2	N	N	NNW	NW	WNW	W	SW	W	WSW	SW	S	WNW	WNW	WNW	WSW	SSW	SSW	S	SSE	ENE	ENE	ENE	ESE	NNE	270	W																																					
Aug 3	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	E	ESE	ENE	ENE	ENE	ENE	NE	NE	ENE	ENE	ENE	NE	ENE	ENE	ENE	56	NE																																					
Aug 4	ENE	E	NE	NE	ENE	NE	NE	NE	NE	ENE	NE	NE	NE	NE	NE	NE	N	NNW	NW	N	N	N	N	N	34	NE																																					
Aug 5	N	NNE	NNE	N	N	NNE	NNE	N	N	NNE	NNE	NNE	NNE	N	NNE	N	N	N	NNE	NE	NNE	N	NNW	12	NNE																																						
Aug 6	N	NNE	N	N	NNE	NNE	S	N	NE	E	E	ESE	SSE	SSE	SSW	SSW	SSW	SSW	WNW	NNW	NNW	NNE	N	NW	30	NNE																																					
Aug 7	NW	N	N	NNW	NNW	N	ENE	E	SSE	SE	SSE	SE	SSE	SE	SE	SSE	SSE	SE	SSE	ESE	ENE	NE	N	N	108	ESE																																					
Aug 8	N	NNE	NE	NNE	NE	NE	NE	ENE	ESE	SE	SE	SE	SSE	SSE	SE	SE	SE	SE	SE	E	E	E	ESE	100	E																																						
Aug 9	ESE	E	NNE	NE	ENE	ENE	ENE	E	ESE	SE	SE	SE	SSE	SSE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	SE	SSE	117	ESE																																					
Aug 10	ESE	E	ENE	ENE	ENE	ENE	E	SE	SSE	SSE	SE	SE	SSE	SSE	SSE	SSE	SSE	SE	SE	ESE	ESE	N	NNE	122	ESE																																						
Aug 11	ENE	ENE	ENE	ENE	ENE	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	SSE	SSE	S	SSE	SSE	SE	SE	SSE	S	SE	E	139	SE																																					
Aug 12	N	N	NE	E	SE	SSE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SSE	SSE	SSE	150	SSE																																						
Aug 13	W	WSW	E	E	N	NNE	E	ENE	SE	SSE	SSW	SSW	SW	SW	SSW	W	W	NW	N	NNW	NNW	NNW	NNW	287	WNW																																						
Aug 14	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	N	NW	W	SW	SE	E	E	E	E	ENE	NE	NE	NE	NNE	NNE	13	NNE																																						
Aug 15	NE	NE	NNE	N	N	N	NNE	NNE	NE	ENE	E	E	ENE	ENE	NE	NE	NNE	NNE	NNE	NNE	N	N	N	N	32	NNE																																					
Aug 16	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	NNE	15	NNE																																					
Aug 17	NNE	NNE	NE	ENE	NE	NE	ENE	E	SE	SSE	S	SSW	SSW	S	SSE	SSE	SSE	SE	SE	E	NNE	N	N	N	106	ESE																																					
Aug 18	N	N	N	N	N	N	N	NE	NNE	NNE	ESE	ESE	NNW	NNE	NNE	ENE	ENE	NE	ENE	NE	NE	NE	ENE	NE	34	NE																																					
Aug 19	NE	NNE	NE	ENE	E	E	ENE	SE	SSE	SSE	SSE	S	SSE	WNW	SW	SW	SW	SSW	SW	SSW	SW	SSW	SW	SSW	178	S																																					
Aug 20	SW	SSW	SW	SSW	SW	SW	SSW	SSW	SSW	SW	Y	SW	SW	WSW	WSW	W	WSW	WSW	SW	SSW	SW	WSW	WSW	WSW	230	SW																																					
Aug 21	WSW	SSW	SW	WNW	NW	N	NNE	NNE	NNE	NNE	NNE	N	N	N	N	C	C	NNE	NNE	NNE	NNE	NNE	ENE	8	N																																						
Aug 22	E	S	S	SSW	SW	SSW	SSE	S	S	S	S	S	S	S	S	S	S	SSE	S	SSE	S	SSW	SSW	SSW	186	S																																					
Aug 23	SW	SW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	W	NW	N	NNE	NNE	NE	NE	237	SW																																					
Aug 24	NNE	NNE	N	NNE	NNE	NE	NNE	NNE	NNE	N	N	N	N	NNE	N	N	N	N	N	N	N	NNW	NNW	NW	5	N																																					
Aug 25	NW	WNW	WSW	NW	NW	NW	SW	SSW	SSE	S	S	SW	W	WSW	SW	SW	SSW	SSW	SW	W	WSW	W	WSW	WSW	242	WSW																																					
Aug 26	WNW	SSE	S	S	SE	SE	SSE	SE	S	S	S	SSE	SE	SSE	S	SSW	S	SSE	SSE	ESE	E	ENE	ENE	154	SSE																																						
Aug 27	E	ESE	SE	S	WSW	W	WNW	WNW	WNW	WNW	W	W	WSW	W	W	W	WNW	WNW	WNW	WNW	NW	NNW	NW	NW	282	W																																					
Aug 28	WNW	WNW	NW	NW	NW	NW	SSW	SSW	NNW	NW	NNW	W	W	W	WSW	W	W	W	W	W	WSW	WSW	WSW	WSW	280	W																																					
Aug 29	SW	WSW	WSW	W	W	W	W	W	WNW	WNW	WNW	NW	NW	WNW	NW	NNW	NNW	NNE	ENE	SSE	NW	NW	NW	WNW	290	WNW																																					
Aug 30	WNW	WNW	W	W	W	W	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	309	NW																																					
Aug 31	NW	NW	NW	NW	NNW	ESE	NW	NNW	W	SW	SSW	SSW	SW	SW	SW	SW	SW	SW	SSW	S	SW	SW	WSW	SW	244	WSW																																					
C	Monthly Calibration															S	Daily Zero-Span Check															Q	Quality Assurance																														
K	Collection Error															ND	No Data (Machine Not in Service)															Y	Routine Maintenance															P	Power Failure														
X	Invalid Data (Machine Malfunction/Recovery)															NRM	Unit/Maint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																																														
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																																															
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																																															



Peace River Area Monitoring Program

AQHI - Grimshaw Station - August 2024

Summary of Hourly Averages

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

WIND SPEED																												
Maximum Hourly Value:		21.9	kph	on Aug 20 at hr 11										Hours in Service:		744												
Maximum Daily Value:		13.5	kph	on Aug 24										Hours of Data:		741												
Minimum Hourly Value:		0.1	kph	on Aug 31 at hr 22										Hours of Missing Data:		1												
Minimum Daily Value:		3.6	kph	on Aug 7										Hours of Calibration:		2												
Monthly Average:		7.7	kph											Operational Uptime:		99.9												
WIND DIRECTION																												
Monthly Average:		11 degree (NNE)																										
Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)													Daily Minimum	Daily Maximum	Daily Average		
Aug 1	2.4	4.2	6.2	7.7	10.7	9.7	9.6	9.6	9.9	10.0	8.1	10.4	10.7	12.5	13.1	14.7	15.3	14.3	11.8	8.8	8.0	7.4	8.2	9.7	2.4	15.3	9.7	
	WSW	W	W	W	W	WNW	WNW	W	WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	W	W	W	W	W	W	NNW			271(W)	
Aug 2	6.4	4.2	3.9	2.6	4.7	3.8	5.2	8.2	6.0	4.6	4.3	2.4	4.8	3.1	2.9	9.1	8.3	6.5	2.8	3.1	2.2	1.0	1.8	2.5	1.0	9.1	4.4	
	N	N	NNW	NW	WNW	W	SW	W	WSW	SW	S	WNW	WNW	WNW	WSW	SSW	SSW	S	SSE	ENE	ENE	ENE	ESE	NNE			270(W)	
Aug 3	3.2	4.2	4.5	3.5	6.0	5.5	5.0	5.7	5.9	4.3	5.4	6.8	8.3	7.0	6.7	7.1	8.4	9.2	6.6	6.1	5.8	5.3	5.0	4.1	3.2	9.2	5.8	
	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	E	ESE	ENE	ENE	ENE	ENE	NE	NE	ENE	ENE	ENE	NE	ENE	ENE	ENE			56(NE)	
Aug 4	1.5	2.4	3.0	3.6	6.6	6.2	7.1	6.3	7.3	8.8	9.1	11.2	9.0	8.7	10.8	10.2	13.2	13.2	6.1	10.9	15.1	12.5	13.3	14.2	1.5	15.1	8.8	
	ENE	E	NE	NE	ENE	NE	NE	NE	NE	ENE	NE	NE	NE	NE	NE	NE	N	NNW	NW	N	N	N	N	N			34(NE)	
Aug 5	13.7	9.9	5.0	7.5	9.1	5.6	5.4	8.6	8.7	5.7	6.0	6.2	5.5	7.5	6.7	7.5	5.4	4.7	5.8	2.6	6.4	6.0	6.0	4.5	2.6	13.7	6.7	
	N	NNE	NNE	N	N	NNE	NNE	N	N	NNE	NNE	NNE	NNE	N	NNE	N	N	N	N	NNE	NE	NNE	N	NNW			12(NNE)	
Aug 6	6.9	5.5	7.4	7.5	4.9	1.0	0.8	1.1	3.3	2.9	2.5	2.1	2.7	4.3	6.0	5.2	4.3	4.0	3.8	6.6	2.6	1.8	0.8	0.8	7.5	3.8		
	N	NNE	N	N	NNE	NNE	S	N	NE	E	E	ESE	SSE	SSE	SSW	SSW	SSW	SSW	SSW	WNW	NNW	NNE	N	NW			30(NNE)	
Aug 7	0.7	3.8	3.4	2.6	2.7	2.8	2.5	3.4	2.8	3.4	4.8	5.3	3.5	2.7	8.0	7.3	3.6	6.8	5.6	2.6	0.9	3.0	1.5	2.0	0.7	8.0	3.6	
	NW	N	N	NNW	NNW	N	ENE	E	SSE	SE	SSE	SE	SSE	SE	SE	SSE	SSE	SE	SSE	ESE	ENE	NE	N				108(ESE)	
Aug 8	3.0	3.4	1.7	2.2	3.8	3.8	3.5	3.0	3.6	5.0	7.2	7.9	12.3	11.6	10.1	8.4	9.4	8.9	7.9	3.2	3.0	2.5	3.2	2.7	1.7	12.3	5.5	
	N	NNE	NE	NNE	NE	NE	NE	ENE	ESE	SE	SE	SE	SSE	SSE	SSE	SE	SE	SE	SE	SE	E	E	E	ESE			100(E)	
Aug 9	2.3	1.6	3.1	4.6	4.8	5.4	4.8	5.3	4.9	5.8	8.3	13.0	15.8	16.1	15.4	15.1	14.6	14.1	11.6	5.7	4.4	5.2	3.8	3.5	1.6	16.1	7.9	
	ESE	E	NNE	NE	ENE	ENE	ENE	E	ESE	SE	SE	SE	SSE	SSE	SE	SE	SE	SE	SE	ESE	ESE	ESE	SE	SSE			117(ESE)	
Aug 10	1.7	3.1	6.2	6.6	6.6	6.2	4.4	5.4	9.5	10.2	9.4	12.2	13.4	12.4	12.0	11.5	12.1	11.5	7.4	4.7	2.7	3.2	1.9	3.8	1.7	13.4	7.4	
	ESE	E	ENE	ENE	ENE	ENE	E	SE	SSE	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	ESE	ESE	N	NNE			122(ESE)	
Aug 11	4.2	2.6	2.7	3.0	1.1	3.2	4.0	5.4	5.7	6.2	8.4	9.6	10.6	11.7	11.4	10.3	9.9	8.7	7.6	7.1	4.8	4.6	7.4	2.3	1.1	11.7	6.4	
	ENE	ENE	ENE	ENE	ENE	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	SSE	SSE	S	SSE	SSE	SE	SE	SSE	S	SE	E			139(SE)	
Aug 12	1.7	2.0	1.8	2.4	1.6	0.2	2.1	1.9	3.5	5.1	5.9	7.4	10.0	11.2	11.6	12.2	13.0	9.6	6.2	6.2	7.9	3.2	2.7	3.4	0.2	13.0	5.5	
	N	N	NE	E	SE	SSE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SSE	SSE	SSE			150(SSE)
Aug 13	2.0	0.7	0.5	0.7	2.1	3.2	1.2	3.3	2.9	4.3	4.1	5.4	3.7	3.7	7.0	5.6	15.7	16.2	12.1	11.5	8.3	8.9	6.8	5.9	0.5	16.2	5.7	
	W	WSW	E	E	N	NNE	E	ENE	SE	SSE	SSW	SSW	SW	SW	SSW	W	W	NW	N	NNW	NNW	NNW	NNW	NNW			287(WNW)	
Aug 14	7.2	7.6	7.7	6.8	5.1	5.5	5.7	6.2	3.8	3.9	2.1	3.7	3.0	5.0	4.9	6.3	8.4	7.9	10.0	6.7	4.5	4.4	6.4	4.4	2.1	10.0	5.7	
	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	N	NW	W	SW	SE	E	E	E	ENE	NE	NE	NE	NNE	NNE	NNE				13(NNE)	
Aug 15	4.2	4.5	5.2	6.8	5.8	5.7	6.3	5.2	6.5	5.4	7.2	7.5	9.5	9.4	10.8	12.9	11.6	14.1	11.7	10.6	10.7	10.8	12.7	11.4	4.2	14.1	8.6	
	NE	NE	NNE	N	N	NNE	NNE	NE	ENE	E	E	ENE	ENE	NE	NE	NNE	NNE	NNE	NNE	N	N	N	N	N			32(NNE)	
Aug 16	11.1	10.9	10.3	10.5	12.2	10.7	10.4	9.2	10.9	10.8	10.9	11.0	11.1	10.0	10.9	10.3	10.5	10.9	9.8	8.7	9.5	8.6	6.7	5.1	5.1	12.2	10.0	
	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	NNE			15(NNE)	
Aug 17	5.3	4.6	3.8	6.0	4.6	3.5	5.3	4.5	8.1	8.6	9.6	9.9	5.2	5.3	1.3	4.8	5.6	3.8	3.0	2.5	1.9	4.0	4.3	5.0	1.3	9.9	5.0	
	NNE	NNE	NE	ENE	NE	ENE	E	SE	SSE	S	SSW	SSW	S	SSE	SSE	SSE	SE	SE	E	NNE	N	N					106(ESE)	
Aug 18	4.0	4.9	3.9	6.9	6.8	6.2	6.9	4.2	4.6	4.9	4.1	2.6	2.1	2.2	2.9	4.5	5.9	6.8	5.9	4.2	4.4	4.1	3.9	3.6	2.1	6.9	4.6	
	N	N	N	N	N	N	N	NE	NNE	NNE	ESE	NNW	NNE	NNE	NNE	ENE	ENE	NE	ENE	NE	NE	NE	ENE	NE			34(NE)	
Aug 19	5.0	4.0	4.0	5.3	4.1	5.5	3.9	5.4	7.7	8.1	9.1	11.4	9.8	11.1	5.8	11.5	15.0	12.2	6.0	6.8	14.3	13.6	13.2	8.7	3.9	15.0	8.4	
	NE	NNE	NE	ENE	E	E	ENE	SE	SSE	SSE	SSE	SSE	S	SSE	NNW	SW	SW	SW	SSW	SW	WSW	WSW	SSW	SSW			178(S)	
Aug 20	9.8	12.3	10.6	7.6	8.1	10.2	8.2	11.0	17.7	17.7	Y	21.9	21.2	18.2	13.3	17.1	17.7	14.1	9.4	8.1	8.2	10.9	11.3	10.1	7.6	21.9	12.8	
	SW	SSW	SW	SSW	SW	SSW	SSW	SSW	SSW	SSW	Y	SW	SW	WSW	WSW	W	WSW	WSW	SW	SSW	SW	WSW	WSW	WSW			230(SSW)	
Aug 21	8.2	5.2	7.6	7.3	1.9	7.1	9.0	12.6	12.6	14.5	12.9	10.8	11.9	13.3	14.0	C	C	C	13.1	10.8	10.2	6.9	4.8	3.7	2.5	1.9	14.5	9.1
	WSW	SSW	SW	WNW	NW	N	NNE	NNE	NNE	NNE	NNE	N	N	N	N	C	C	C	NNE	NNE	NNE	NNE	NE	ENE			8(N)	
Aug 22	1.5	1.4	1.4	3.7	4.8	5.8	4.6	10.4	10.9	12.5	11.8	14.4	17.1	19.8	19.4	16.7	18.0	18.4	13.3	11.5	10.6	12.4	8.7	6.2	1.4	19.8	10.6	
	E	S	S	SSW	SW	SSW	SSE	S	S	S	S	S	S	S	S	S	SSW	S	S	SSE	S	SSW	SSW	SSW			186(S)	
Aug 23	7.6	6.8	7.8	5.6	4.5	5.3	3.6	2.6	8.0	13.1	18.5	20.7	20.7	19.9	16.4	14.6	11.8	10.4	9.2	5.7	8.8	9.5	8.3	7.7	2.6	20.7	10.3	
	SW	SW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	W	NW	N	NNE	NNE	NE			237(SSW)	
Aug 24	10.4	11.1	11.5	15.5	13.9	10.1	9.9	14.4	11.8	12.2	16.9	20.0	19.7	20.4	17.8	20.5	20.5	15.9	12.9	11.1	8.3	7.4	6.8	5.5	5.5	20.5	13.5	
	NNE	NNE	N	NNE	NNE	NE	NNE	NNE	NNE	N	N	N	NNE	N	N	N	N	N	N	N	N	N	NNW	NNW	NW			5(N)
Aug 25	6.0	4.3	3.8	3.6	4.5	1.6	2.7	1.9	5.0	6.8	8.9	9.3	11.2	12.0	13.4	14.9	15.4	14.8	11.3	6.3	5.5	4.7	7.7	4.8	1.6	15.4	7.5	
	NW	WNW	WSW	NW	NW	NW	SSW	SSE	S	SW	W	WSW	WSW	SW	SW	SW	SSW	SSW	SW	W	WSW	W	WSW				242(WSW)	
Aug 26	2.1	2.3	1.6	0.6	1.6	2.3	1.9	2.4	5.4	6.7	7.4	6.9	1.6	6.0	9.8	11.6	11.6	10.0	8.0	3.8	4.4	3.5	4.4	4.3	0.6	11.6	5.0	
	WNW	SSE	S	S	SE	SE	SSE	SE	S	S	SSE	SE	SSE	S	SSW	S	SSE	SSE	SSE	ESE	E	ENE	ENE				154(SSE)	
Aug 27	4.4	3.5	3.0	1.7	1.9	6.7	9.6	13.0	13.5	14.1	16.0	16.4	13.3	15.4	14.0	14.5	11.6	14.6	16.7	14.8	12.8	11.7	13.1	9.6	1.7	16.7	11.1	
	E	ESE	SE	S	WSW	W	WNW	WNW	WNW	WNW	W	W	WSW	W	W	W	WNW	WNW	WNW	WNW	NW	NNW	NW	NW			282(W)	
Aug 28	5.8	6.8	11.1	9.1	11.1	11.1	8.4	4.7	4.0	2.8	4.3	6.5	11.2	15.1	14.1	12.1	12.7	10.6	9.3	4.7	3.9	5.9	8.0	11.7	2.8	15.1	8.5	
	WNW	WNW	NW	NW	NW	NW	SSW	SSW	NNW	NNW	NNW	NNW	NNW	W	W	WSW	W	W	W	W	W	WSW	WSW	WSW			280(W)	
Aug 29	6.0	7.9	10.1	4.5	5.4	9.2	12.1	15.1	20.1	21.3	19.7	19.6	16.2	15.0	14.8	12.1	10.4											

END OF REPORT

This page, 149 of 149, ends the August 2024 Monthly Ambient Air Quality Monitoring Report.



Peace River Area Monitoring Program

AUGUST 2024

Ambient Air Monitoring Calibration Report

- 842-B STATION-

CAL-PRAMP-202408-01561

Operation and Maintenance:

Bureau Veritas Canada

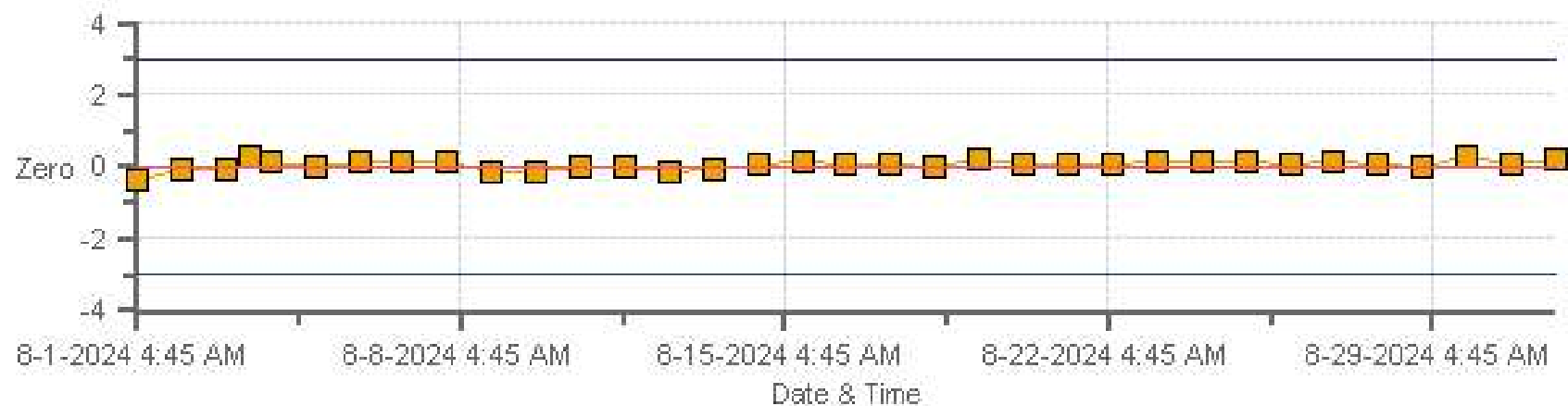
Data Validation and Report:

Bureau Veritas Canada

September 20, 2024

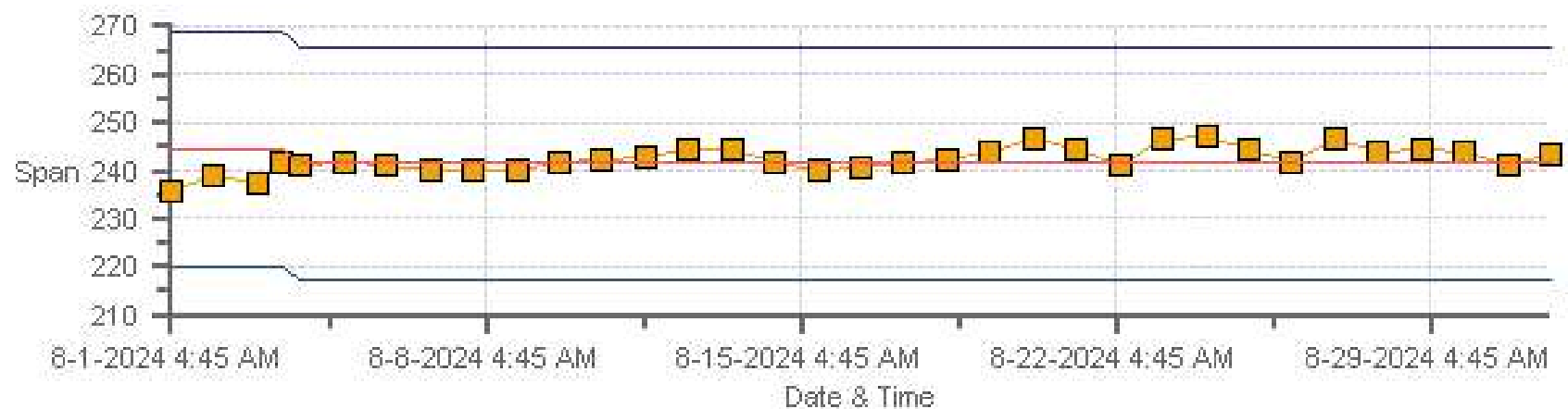
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO₂[ppb] Calibration: PRAMP 842-B Monthly: 08-2024 Type: SpanAndZero - Zero



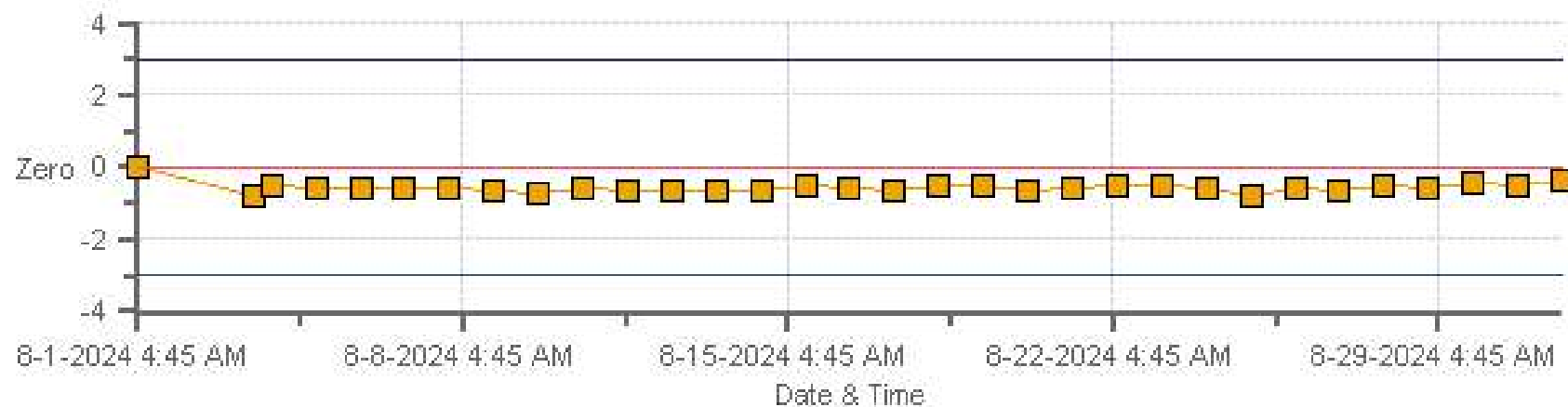
Zero Zero Ref Zero Low Zero High

SO₂[ppb] Calibration: PRAMP 842-B Monthly: 08-2024 Type: SpanAndZero - Span



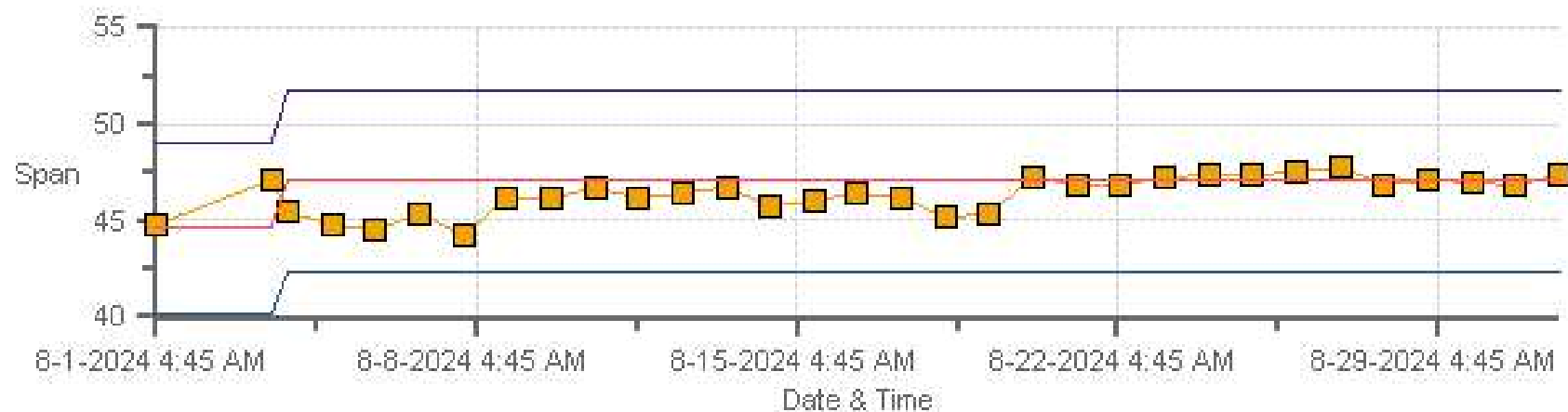
Span Span Ref Span Low Span High

TRS[ppb] Calibration: PRAMP 842-B Monthly: 08-2024 Type: SpanAndZero - Zero



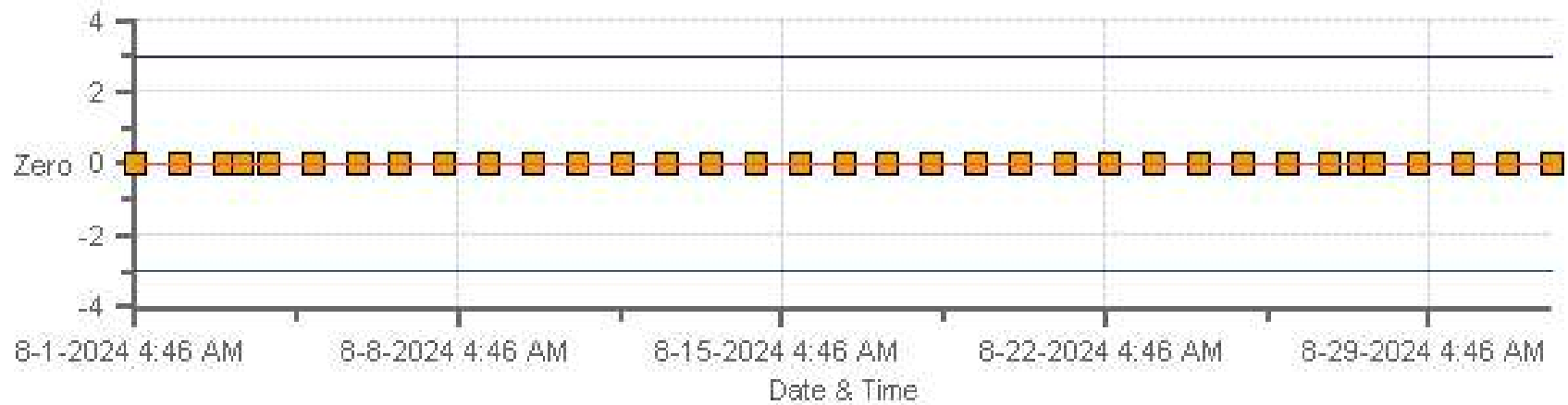
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TRS[ppb] Calibration: PRAMP 842-B Monthly: 08-2024 Type: SpanAndZero - Span



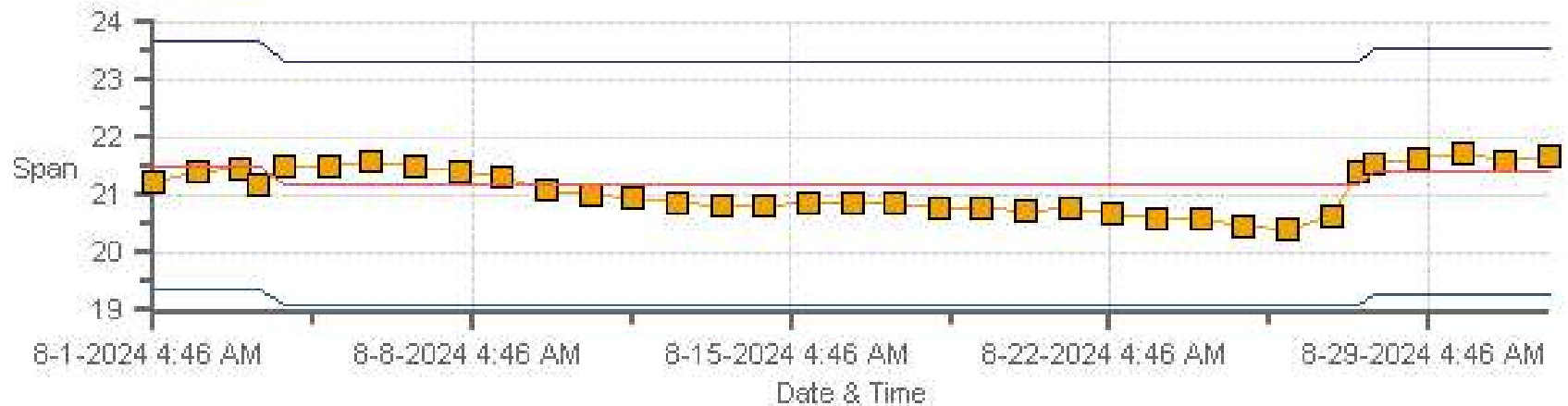
Span Span Ref Span Low Span High

THC55[ppm] Calibration: PRAMP 842-B Monthly: 08-2024 Type: SpanAndZero - Zero



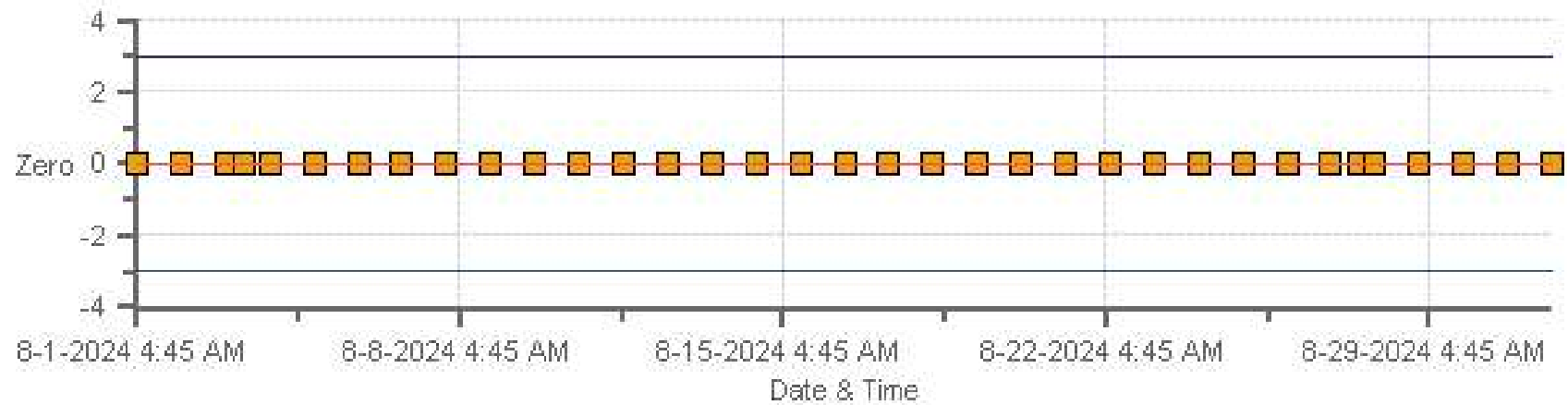
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: PRAMP 842-B Monthly: 08-2024 Type: SpanAndZero - Span



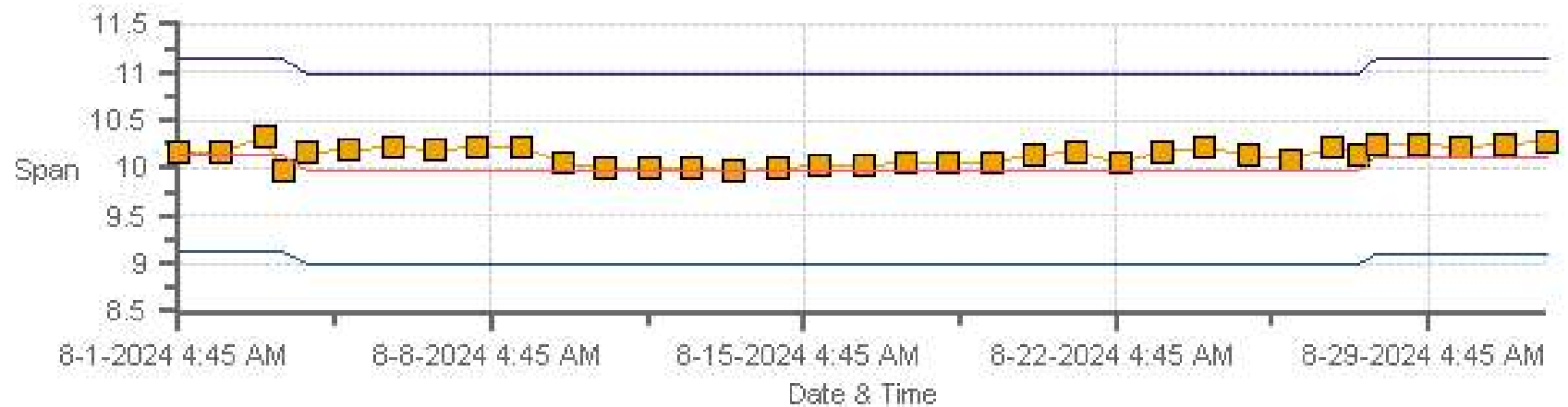
Span Span Ref Span Low Span High

CH4[ppm] Calibration: PRAMP 842-B Monthly: 08-2024 Type: SpanAndZero - Zero



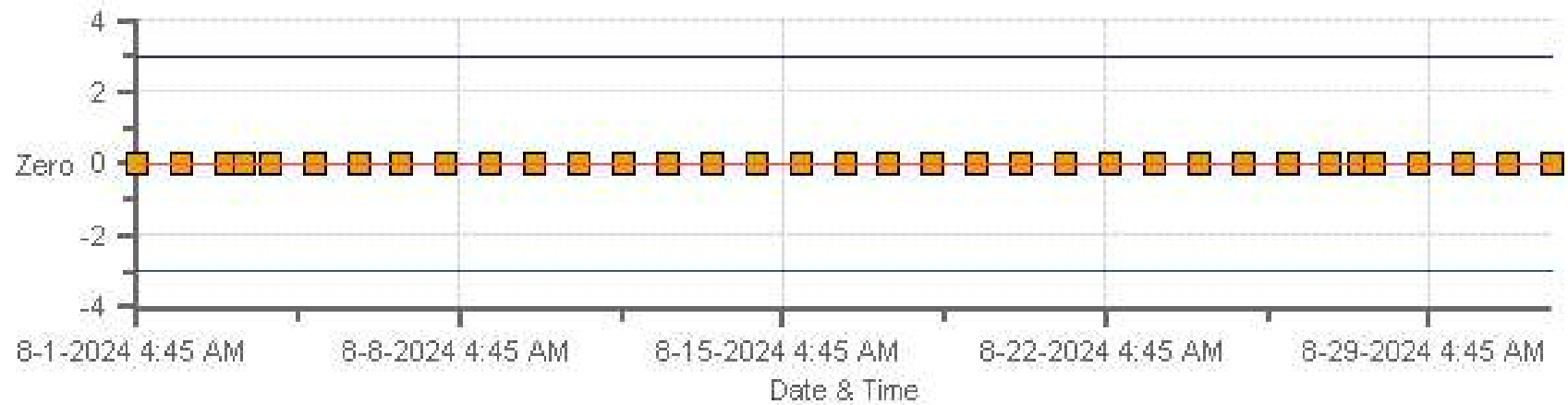
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: PRAMP 842-B Monthly: 08-2024 Type: SpanAndZero - Span



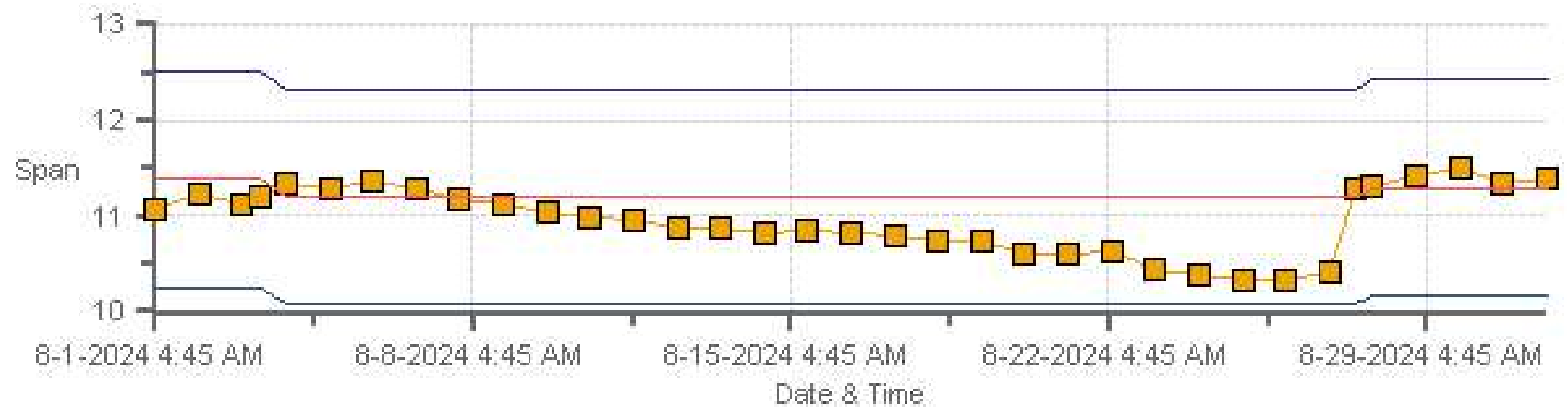
Span SpanRef Span Low Span High

NMHC[ppm] Calibration: PRAMP 842-B Monthly: 08-2024 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP 842-B Monthly: 08-2024 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	03-Aug-2024	PREVIOUS CALIBRATION DATE:	09-Jul-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	21.5
LOCATION:	842b	BAROMETRIC (mBar):	945
PURPOSE:	Routine	START TIME (MST):	08:29
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	15:55

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	425
INITIAL		FINAL	
BKG/OFFSET	8.7	BKG/OFFSET	8.7
COEF/SLOPE	1.095	COEF/SLOPE	1.122
Expected (reference) Value	244.3	Expected (reference) Value	241.4

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL109693	HIGH ID	n/a
CONC (ppm):	25.00	EXPIRY DATE	n/a
CYLINDER (psi):	500	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			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
2999	45.60	2999	0.00	0.1	0	1.042	0.997
2953	45.60	2999	380.13	364.8	381.2	1.042	0.997
2977	21.60	2999	180.06	n/a	180.5	n/a	0.998
2989	10.80	3000	90.00	n/a	89.3	n/a	1.008

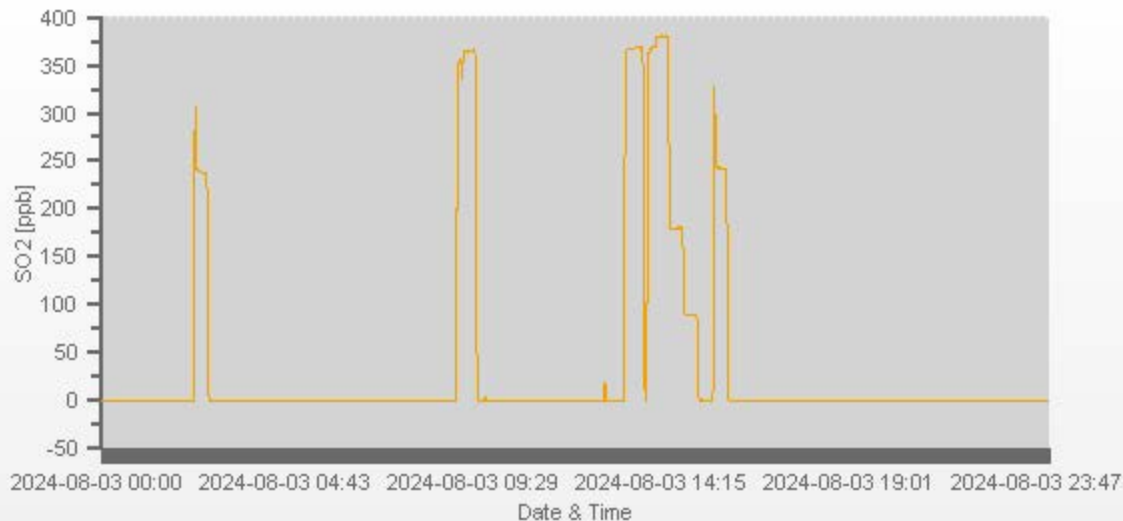
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.959	0.0%

COMMENTS:

Sample Filter Changed
09:06-09:10- Regulator flushed to check response
Adjusted high point delayed due to TRS issues
13:44-13:52- Corrected Calibration Line. Adjusted high restarted

SO2[ppb] Station: PRAMP 842-B Daily: 2024-08-03 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202408-01561

TRS Analyzer Calibration by Dilution



DATE:	03-Aug-2024	PREVIOUS CALIBRATION DATE:	09-Jul-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	21.5
LOCATION:	842b	BAROMETRIC (mBar):	945
PURPOSE	Install/Post-Repair	START TIME (MST):	09:30
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	17:05

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	396
INITIAL		FINAL	
BKG/OFFSET	14.6	BKG/OFFSET	15.9
COEF/SLOPE	0.912	COEF/SLOPE	0.962
Expected (reference) Value	46.9	Expected (reference) Value	47.07

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	1100	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	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:	16:05	SO2 Conc (ppb)	380
END TIME:	16:20	Analyzer Response (ppb)	0.3

CALIBRATION:

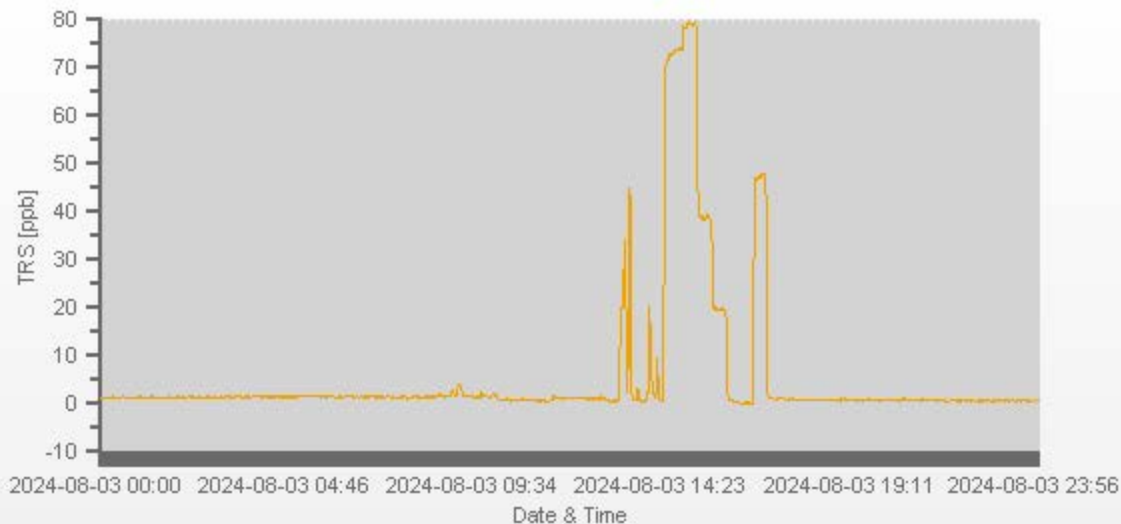
FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4000	30.90	4000	0.00	n/a	0	n/a	0.996
3969	30.90	4000	77.95	n/a	78.24	n/a	0.996
3984	15.10	3999	38.10	n/a	38.42	n/a	0.992
3993	7.50	4000	18.92	n/a	18.97	n/a	0.997

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.004	0.0%

COMMENTS:

Found Converter CDNova CDN101 #583 failed. Installed #552 13:14-14:15 = Scrubber beads renewed.
--



Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	03-Aug-2024	PREVIOUS CALIBRATION DATE:	09-Jul-2024	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	21.7		Thermo 55i	1501663728	1042
LOCATION:	842b	BAROMETRIC (mBar):	945	PARAMETER:	CH4	NMHC	THC
PURPOSE	Routine	START TIME (MST):	08:29	RANGE (ppm):	20	20	40
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	12:23	PREVIOUS CF:	0.999	1.001	1.000

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	Teledyne	CYLINDER ID:	LL68768	HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	CH ₄ /C ₃ H ₈ (ppm):	897.0 301.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	80	CYLINDER (psi):	800	LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a	EXPIRY DATE	08-Nov-2024	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	827.75	Use Zero Chrom?	No
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1724.75	New Zero Chrom?	No

EXPECTED (REFERENCE) VALUE:

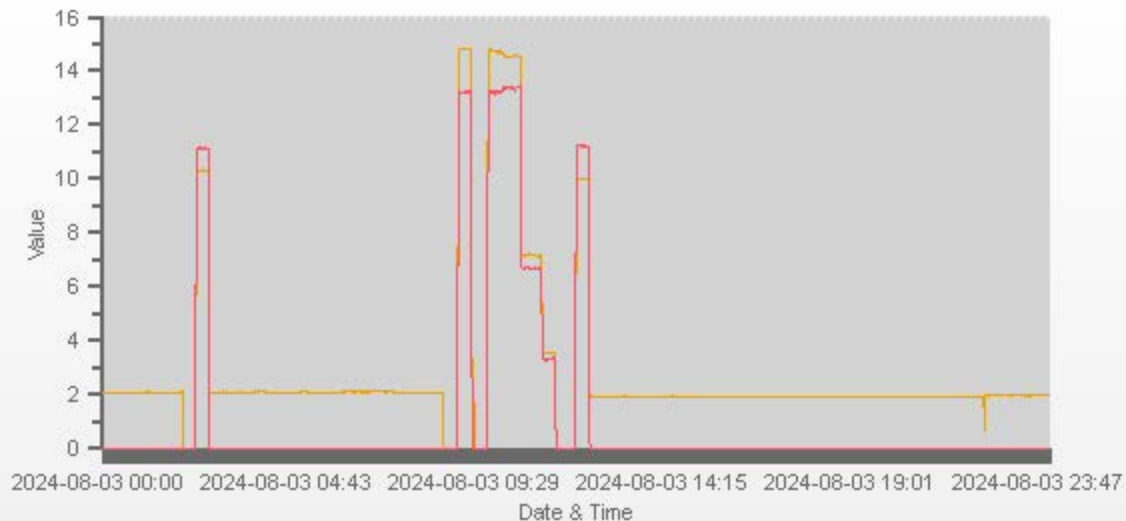
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	10.14	11.38	21.52		9.98	11.21	21.19

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3501	X	3501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
3443	56.80	3500	14.56	13.43	27.99	14.81	13.22	28.03	14.56	13.36	27.92	0.983	1.016	0.999	1.000	1.005	1.003
3473	28.40	3501	7.28	6.71	13.99	n/a	n/a	n/a	7.19	6.67	13.86	n/a	n/a	n/a	1.012	1.007	1.009
3488	14.20	3502	3.64	3.36	6.99	n/a	n/a	n/a	3.57	3.35	6.92	n/a	n/a	n/a	1.019	1.002	1.011

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:
CH ₄	1.000	1.017	0.0%	
NMHC	1.000	0.984	0.0%	
THC	1.000	1.001	0.0%	



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CH4 [ppm] NMHC [ppm]

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	27-Aug-2024	PREVIOUS CALIBRATION DATE:	03-Aug-2024	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	24.4		Thermo 55i	1501663728	1018
LOCATION:	842b	BAROMETRIC (mBar):	933	PARAMETER:	CH4	NMHC	THC
PURPOSE	Repeat	START TIME (MST):	09:12	RANGE (ppm):	20	20	40
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	15:36	PREVIOUS CF:	1.000	1.005	1.003

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	Teledyne	CYLINDER ID:	LL68768	HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	CH ₄ /C ₃ H ₈ (ppm):	897.0 301.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	80	CYLINDER (psi):	800	LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a	EXPIRY DATE	08-Nov-2024	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	827.75	Use Zero Chrom?	No
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1724.75	New Zero Chrom?	No

EXPECTED (REFERENCE) VALUE:

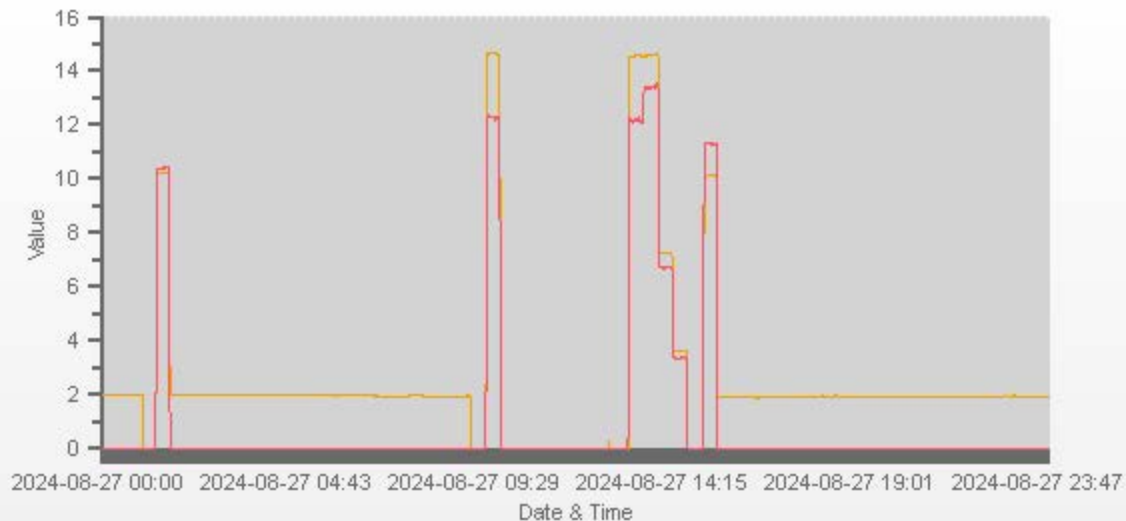
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	9.98	11.21	21.19		10.12	11.29	21.42

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3501	X	3501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
3443	56.80	3500	14.56	13.43	27.99	14.65	12.24	26.89	14.57	13.40	27.97	0.994	1.097	1.041	0.999	1.002	1.001
3473	28.40	3501	7.28	6.71	13.99	n/a	n/a	n/a	7.24	6.73	13.96	n/a	n/a	n/a	1.005	0.998	1.002
3488	14.20	3502	3.64	3.36	6.99	n/a	n/a	n/a	3.62	3.38	7.00	n/a	n/a	n/a	1.005	0.993	0.999

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments: Repeat Calibration due to NMHC span drift Dessicant renewed
CH ₄	1.000	1.001	-0.1%	
NMHC	1.000	0.997	0.1%	
THC	1.000	0.999	0.0%	



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CH4 [ppm] NMHC [ppm]

Meteorological System Checklist



Date:	August 3, 2024		
Technician:	Kevin Sebastian		
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:	July 9, 2024		
Is the sensor Level?	yes		
Is the heater operating properly?	yes		
Are the bucket drain holes clean?	yes	test time:15:22-15:29	
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 mm)			
# of Tips	Data Logger Response (mm):	Manual Specification = +/- 0.1 mm	
10	1.0	0.00	
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	July 9, 2024		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	F.S. 181341226 expires July 24, 2025		
Reference Temperature (°C):	24.3		
Station - Ambient Temperature (°C):	23.9		
Temperature Difference (°C):	0.5		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	July 9, 2024		
Reference Barometer ID:	Brunton 05535 Expires July 24,2025		
Reference Pressure - Units/Reading:	millibar	944	
Station Pressure - Units/Reading:	millibar	944	
Pressure Tolerance +/- 15% of error:	802 - 1086	0.00%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	July 9, 2024		
Reference Hygrometer ID:	F.S. 181341226 expires July 24, 2025		
Reference Hygrometer % RH- Reading:	50.10		
Station Hygrometer % RH- Reading:	56.80		
RH Tolerance +/- 15% of difference:	42.59 - 57.62	-13.4%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	SW
Wind speed on Data Logger (kph):	11.2	Wind Direction on Data Logger:	SW
		Wind Direction Pass/Fail?:	Pass
Comments			



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Chris Wesson
Audit Location:	842b	Reviewed By:	Limin Li
Audit Date:	August 3, 2023	Start/End Time (mst):	15:57 / 17:00
Calibration Purpose:	routine annual	Weather Conditions:	Mix of sun and clouds with rain showers

Wind Sensor Information

Sensor ID Data:		Sensor Outputs:	
Sensor Make:	RM Young	Velocity Voltage Output Range:	n/a
Sensor Model:	05305AQ	Velocity Unit Output Range:	0-200
Serial #:	174802	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	August 3, 2022	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	2	354	2.0	1.0	1.5
30	330	23	332	7.0	-2.0	4.5
60	300	59	303	1.0	-3.0	2.0
90	270	88	274	2.0	-4.0	3.0
120	240	118	242	2.0	-2.0	2.0
150	210	149	209	1.0	1.0	1.0
180	180	179	178	1.0	2.0	1.5
210	150	210	146	0.0	4.0	2.0
240	120	243	117	-3.0	3.0	3.0
270	90	274	89	-4.0	1.0	2.5
300	60	304	57	-4.0	3.0	3.5
330	30	334	29	-4.0	1.0	2.5
355	0	354	2	1.0	2.0	1.5
The audit meets AMD requirements.			Average Absolute Degrees Difference=		2.3	

Comments:

Declination = 15 deg East
Physical inspection completed, no issues
Potentiometer noisy. Replacement required.



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Chris Wesson
Audit Location:	842b	Reviewed By:	Limin Li
Audit Date:	August 22, 2024	Start/End Time (mst):	14:11 - 15:14
Calibration Purpose:	routine annual	Weather Conditions:	Mainly sunny

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:	n/a
Previous Cal/Audit Date:	August 3, 2023	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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

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

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

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	1	354	1.0	1.0	1.0
30	330	28	333	2.0	-3.0	2.5
60	300	57	305	3.0	-5.0	4.0
90	270	86	275	4.0	-5.0	4.5
120	240	115	244	5.0	-4.0	4.5
150	210	145	209	5.0	1.0	3.0
180	180	177	178	3.0	2.0	2.5
210	150	208	147	2.0	3.0	2.5
240	120	242	116	-2.0	4.0	3.0
270	90	275	86	-5.0	4.0	4.5
300	60	304	57	-4.0	3.0	3.5
330	30	332	28	-2.0	2.0	2.0
355	0	354	2	1.0	2.0	1.5
The audit meets AMD requirements.			Average Absolute Degrees Difference=		3.0	

Comments:

Declination = 15 deg East
Horizontal bearings replaced
Potentiometer noisy. Replacement required.

END OF REPORT



Peace River Area Monitoring Program

AUGUST 2024

Ambient Air Monitoring Calibration Report

- 986-C STATION-

CAL-PRAMP-202408-01562

Operation and Maintenance:

Bureau Veritas Canada

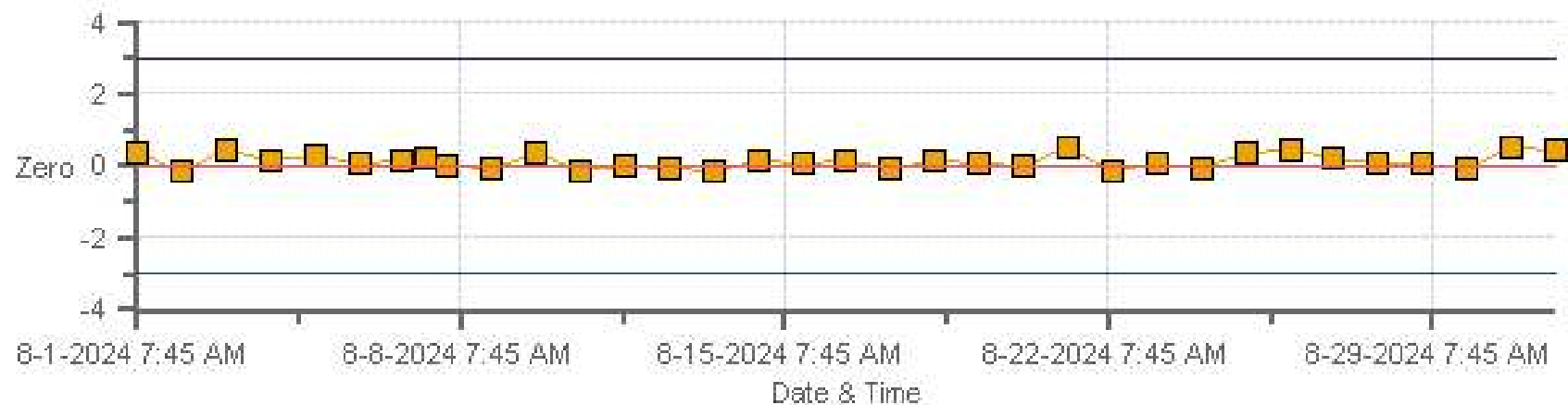
Data Validation and Report:

Bureau Veritas Canada

September 20, 2024

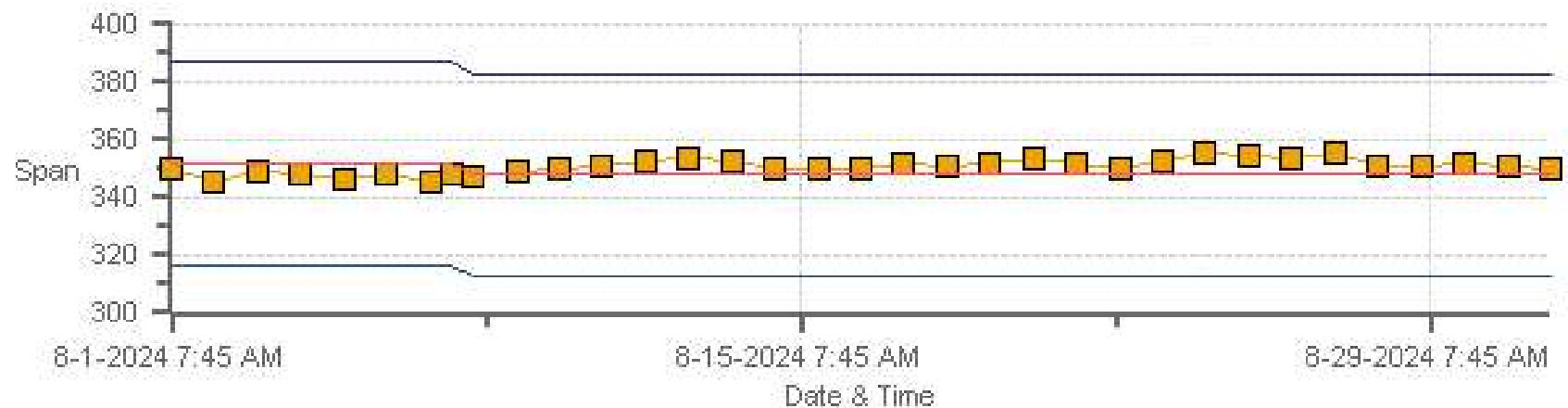
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO₂[ppb] Calibration: PRAMP 986-C Monthly: 08-2024 Type: SpanAndZero - Zero



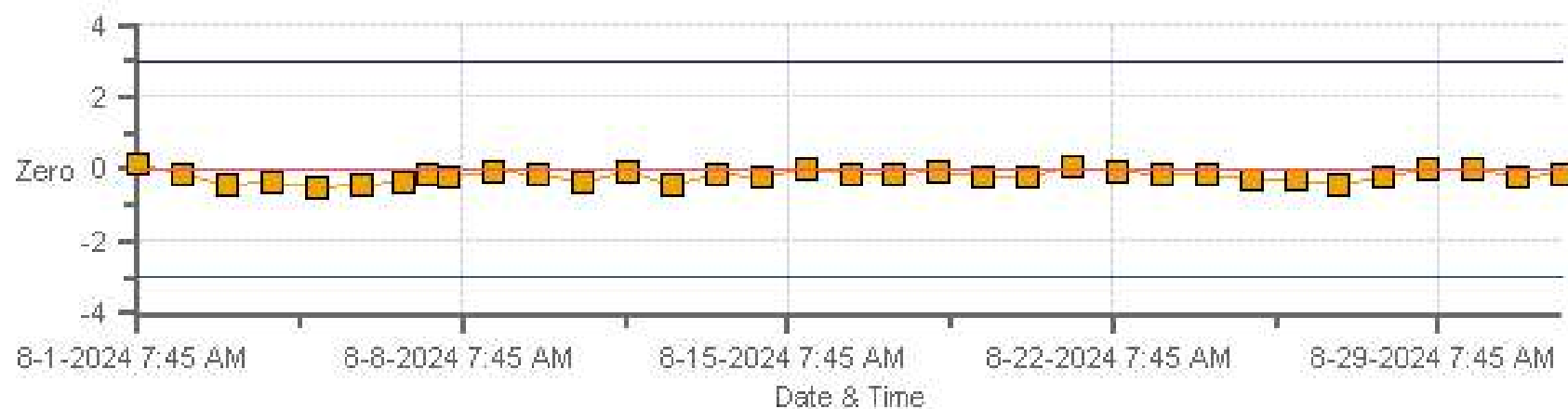
Zero Zero Ref Zero Low Zero High

SO₂[ppb] Calibration: PRAMP 986-C Monthly: 08-2024 Type: SpanAndZero - Span



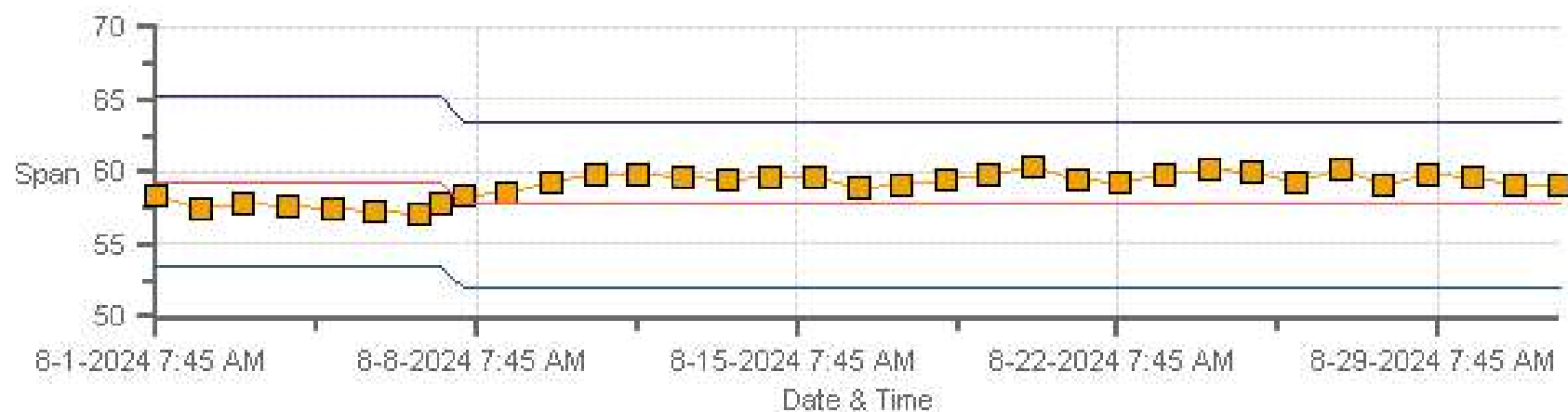
Span Span Ref Span Low Span High

TRS[ppb] Calibration: PRAMP 986-C Monthly: 08-2024 Type: SpanAndZero - Zero



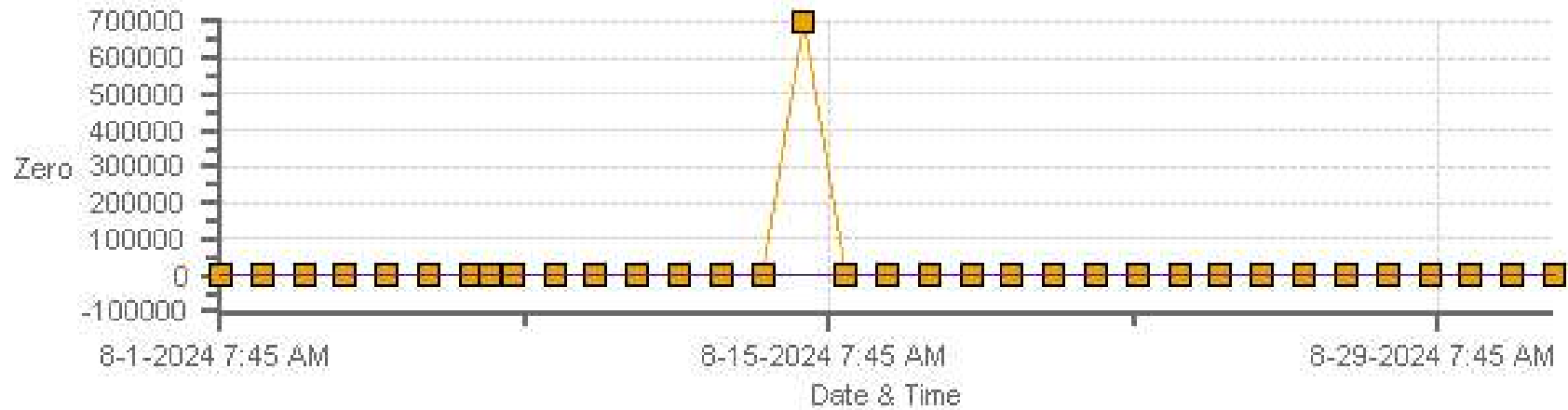
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TRS[ppb] Calibration: PRAMP 986-C Monthly: 08-2024 Type: SpanAndZero - Span



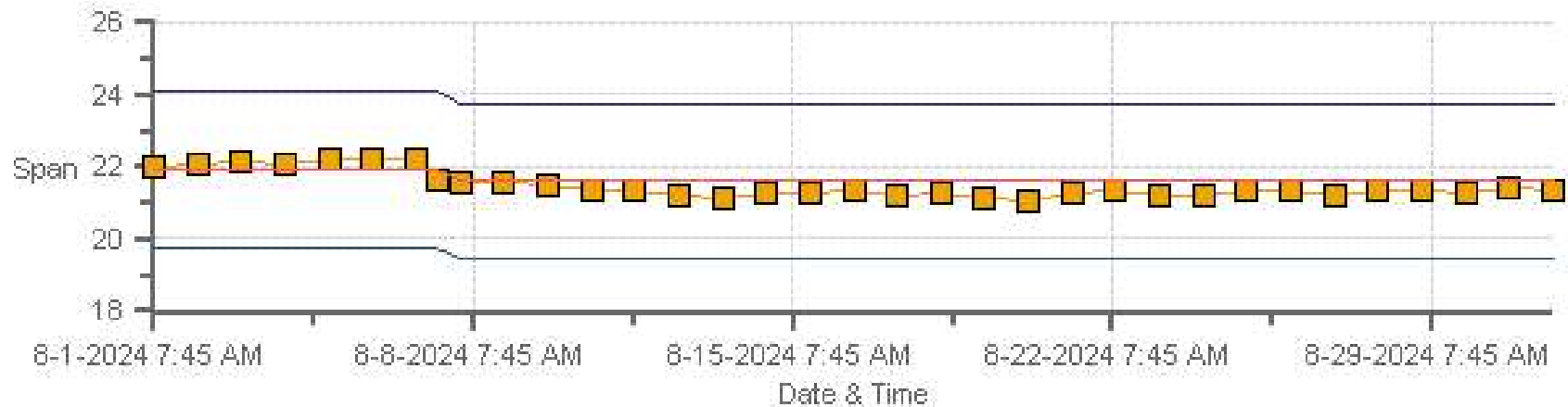
Span SpanRef Span Low Span High

THC55[ppm] Calibration: PRAMP 986-C Monthly: 08-2024 Type: SpanAndZero - Zero



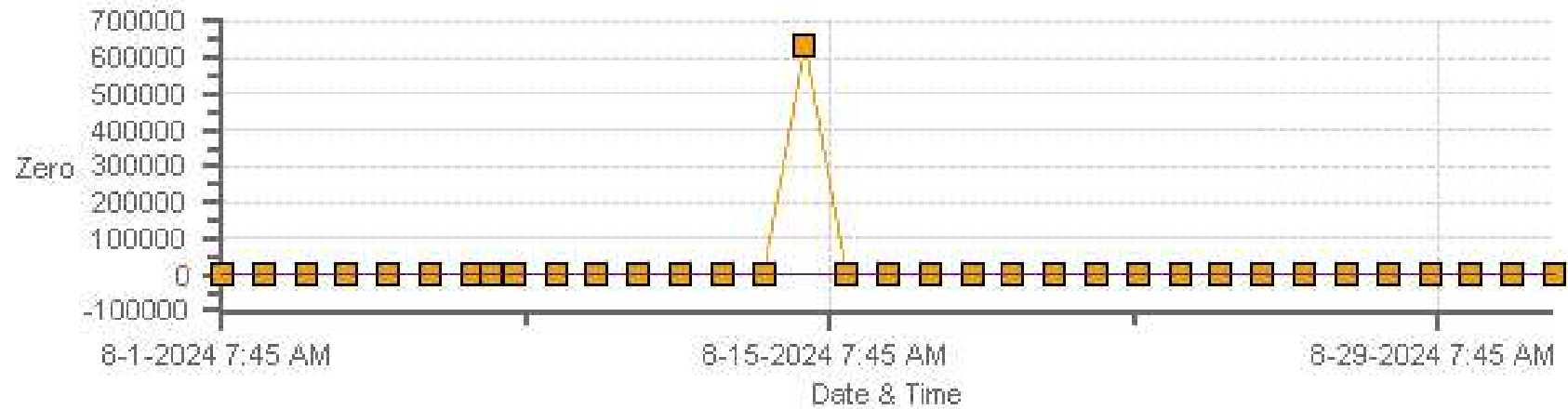
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: PRAMP 986-C Monthly: 08-2024 Type: SpanAndZero - Span



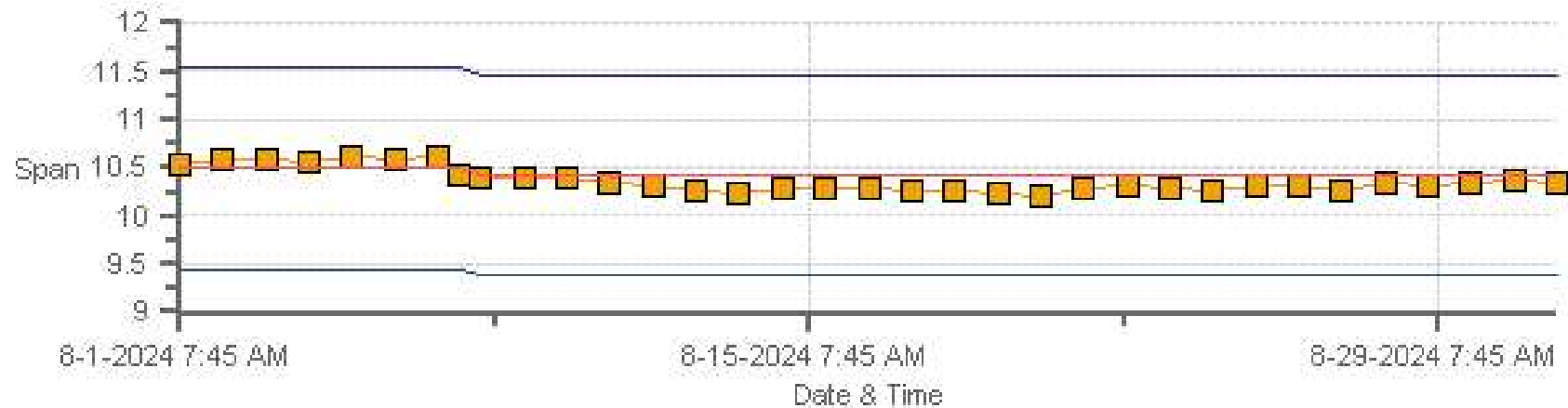
Span SpanRef Span Low Span High

CH4[ppm] Calibration: PRAMP 986-C Monthly: 08-2024 Type: SpanAndZero -Zero



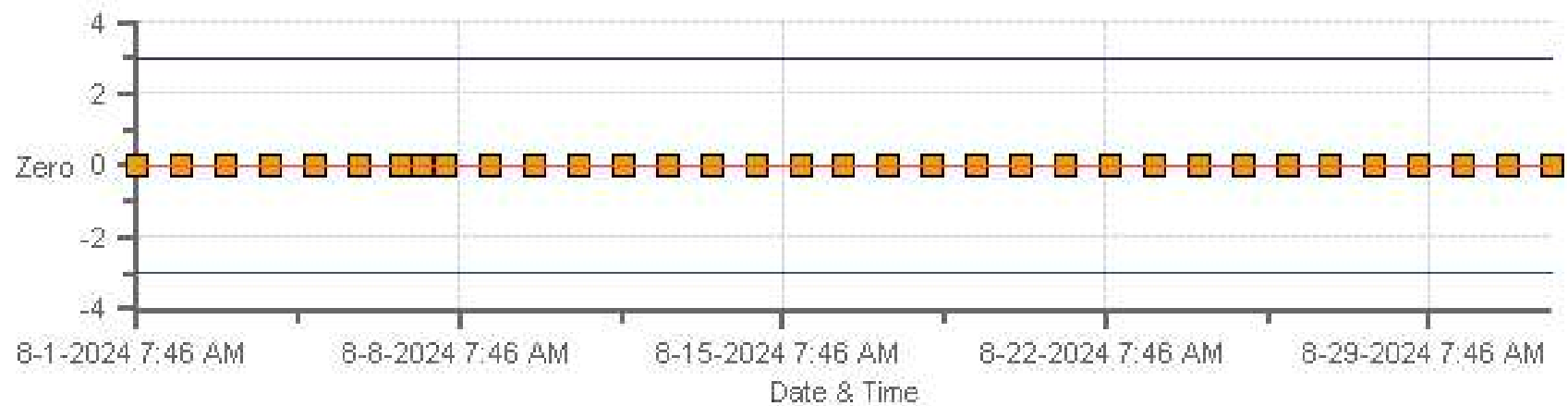
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: PRAMP 986-C Monthly: 08-2024 Type: SpanAndZero -Span



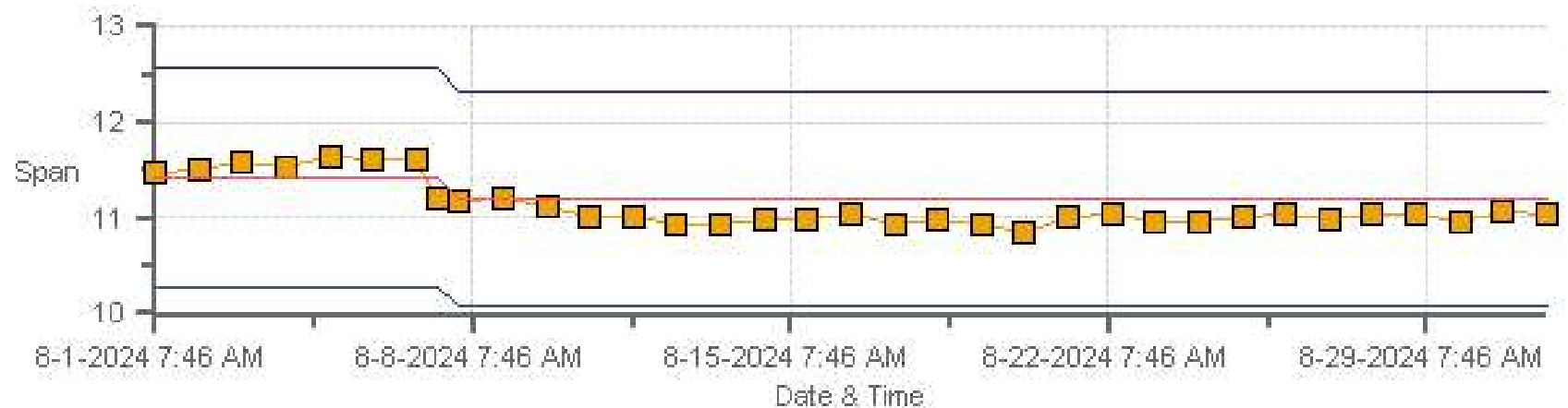
Span Span Ref Span Low Span High

NMHC[ppm] Calibration: PRAMP 986-C Monthly: 08-2024 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP 986-C Monthly: 08-2024 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	07-Aug-2024	PREVIOUS CALIBRATION DATE:	18-Jul-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	24.5
LOCATION:	986C	BAROMETRIC (mBar):	952
PURPOSE:	Routine	START TIME (MST):	08:51
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	12:51

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	437
INITIAL		FINAL	
BKG/OFFSET	19.1	BKG/OFFSET	19.4
COEF/SLOPE	1.032	COEF/SLOPE	1.038
Expected (reference) Value	351.8	Expected (reference) Value	347.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL109693	HIGH ID	n/a
CONC (ppm):	25.00	EXPIRY DATE	n/a
CYLINDER (psi):	500	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			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999	60.80	3999	0.00	-0.1	0	1.013	0.996
3940	60.80	4001	379.91	375	381.3	1.013	0.996
3972	28.80	4001	179.96	n/a	179.7	n/a	1.001
3985	14.40	3999	90.02	n/a	91.7	n/a	0.982

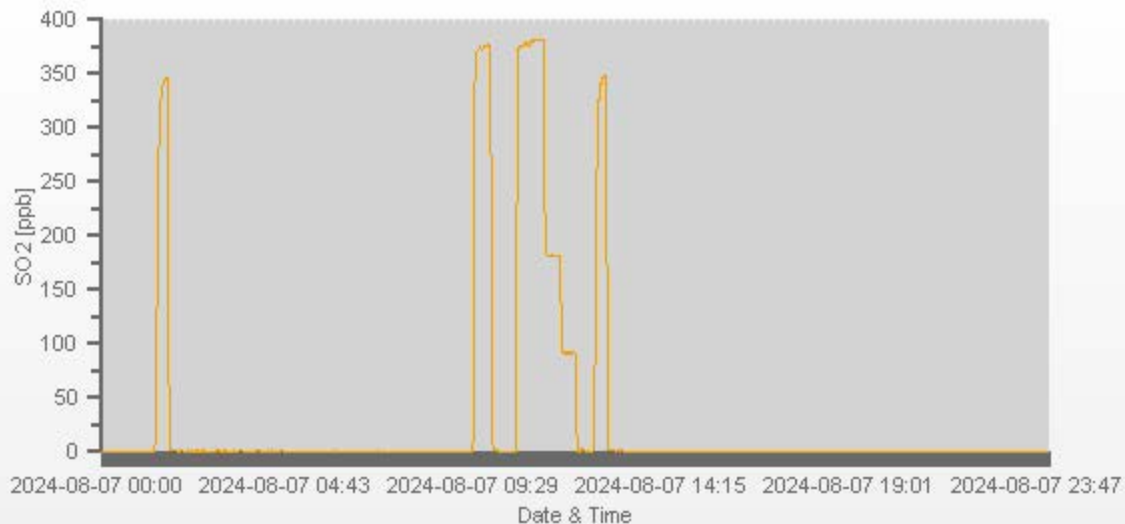
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	0.1%

COMMENTS:

Sample Filter Changed

SO₂[ppb] Station: PRAMP 986-C Daily: 2024-08-07 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202408-01562

TRS Analyzer Calibration by Dilution



DATE:	07-Aug-2024	PREVIOUS CALIBRATION DATE:	18-Jul-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	24.5
LOCATION:	986C	BAROMETRIC (mBar):	952
PURPOSE:	Routine	START TIME (MST):	08:51
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	12:52

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	427
INITIAL		FINAL	
BKG/OFFSET	17	BKG/OFFSET	17
COEF/SLOPE	0.996	COEF/SLOPE	1.018
Expected (reference) Value	59.36	Expected (reference) Value	57.76

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	1100	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	-0.65	0		
3970	30.90	4001	77.93	75.56	78.41	1.023	0.994
3986	15.10	4001	38.08	n/a	37.57	n/a	1.014
3992	7.50	3999	18.92	n/a	18.8	n/a	1.007

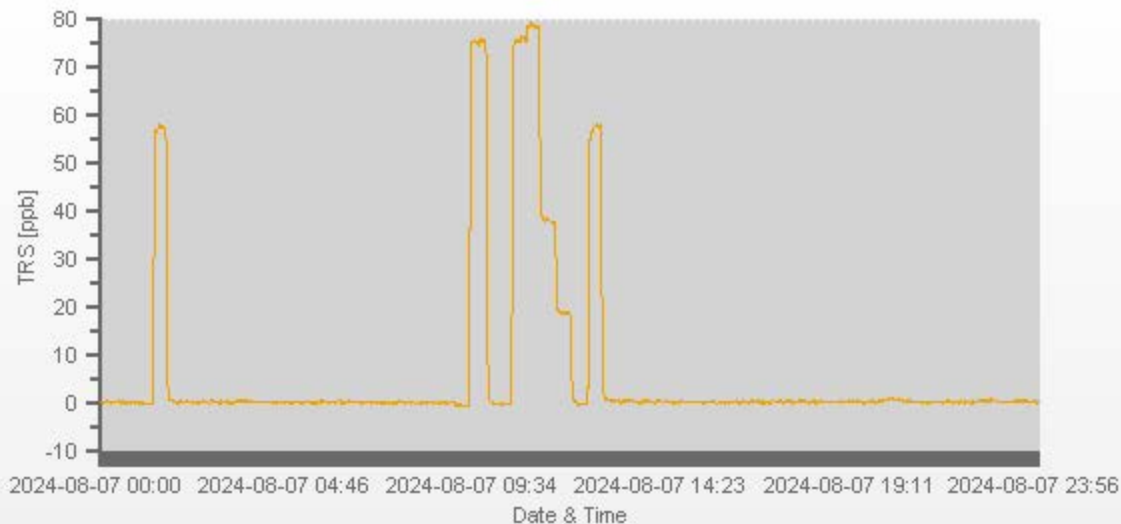
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.006	-0.3%

COMMENTS:

Sample Filter Changed

TRS[ppb] Station: PRAMP 986-C Daily: 2024-08-07 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202408-01562

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	07-Aug-2024	PREVIOUS CALIBRATION DATE:	23-Jul-2024	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	24.5		Thermo 55i	1022143392	1015
LOCATION:	986C	BAROMETRIC (mBar):	952	PARAMETER:	CH4	NMHC	THC
PURPOSE	Routine	START TIME (MST):	08:51	RANGE (ppm):	20	20	40
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	12:36	PREVIOUS CF:	1.000	0.997	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	Teledyne	CYLINDER ID:	LL68768	HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	CH ₄ /C ₃ H ₈ (ppm):	897.0 301.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	80	CYLINDER (psi):	800	LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a	EXPIRY DATE	08-Nov-2024	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	827.75	Use Zero Chrom?	Yes
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1724.75	New Zero Chrom?	No

EXPECTED (REFERENCE) VALUE:

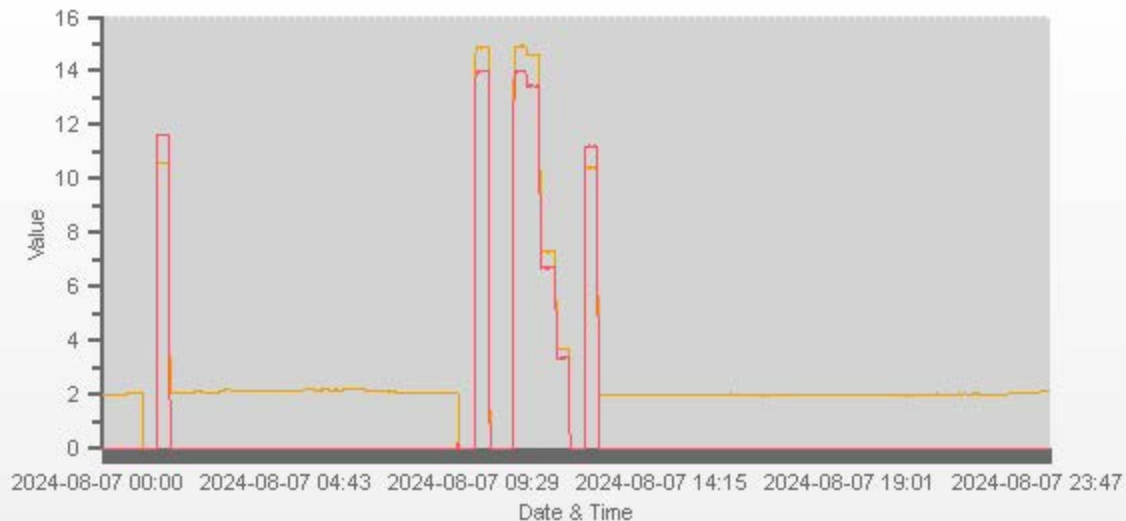
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	10.49	11.41	21.90		10.49	11.41	21.90

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3500	X	3500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
3443	56.80	3500	14.56	13.43	27.99	14.88	13.98	28.86	14.59	13.44	28.03	0.978	0.961	0.970	0.998	0.999	0.999
3473	28.40	3501	7.28	6.71	13.99	n/a	n/a	n/a	7.33	6.73	14.06	n/a	n/a	n/a	0.993	0.998	0.995
3487	14.20	3501	3.64	3.36	7.00	n/a	n/a	n/a	3.69	3.38	7.06	n/a	n/a	n/a	0.986	0.993	0.991

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:
CH ₄	1.000	1.002	0.1%	
NMHC	1.000	1.000	0.1%	
THC	1.000	1.001	0.1%	



CAL-PRAMP-202408-01562

Meteorological System Checklist



Date:	August 7, 2024		
Technician:	Kevin Sebastian		
Station:	PRAMP 986c		
Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 16325
Temperature Sensor:	Rotronic	HC2-32	20626912
Barometric Pressure Sensor:	MetOne	092	Y23358
Relative Humidity Sensor:	Rotronic	HC2-S3	20626912
Anemometer:	RM Young	05305AQ	180340
PRECIPITATION SENSOR CHECK			
Checklist:	Reply:	Comments:	
Previous check date:	July 15, 2024		
Is the sensor Level?	yes		
Is the heater operating properly?	yes		
Are the bucket drain holes clean?	yes	Tested: 12:38-12:49	
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 mm)			
# of Tips	Data Logger Response (mm):	Manual Specification = +/- 0.1 mm	
10	1.0	0.00	
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	July 15, 2024		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	Traceable 20250-21 #230557122 Exp: Aug 17, 2025		
Reference Temperature (°C):	23.2		
Station - Ambient Temperature (°C):	23.4		
Temperature Difference (°C):	-0.2		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	July 15, 2024		
Reference Barometer ID:	Brunton ADC #231010, Exp: Oct 10, 2024		
Reference Pressure - Units/Reading:	millibar	952.7	
Station Pressure - Units/Reading:	millibar	952.8	
Pressure Tolerance +/- 15% of error:	810 - 1096	-0.01%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	July 15, 2024		
Reference Hygrometer ID:	Traceable 20250-21 #230557122 Exp: Aug 17, 2025		
Reference Hygrometer % RH- Reading:	43.10		
Station Hygrometer % RH- Reading:	49.00		
RH Tolerance +/- 15% of difference:	36.64 - 49.57	-13.7%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	July 15, 2024	Previous check date:	July 15, 2024
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	SW
Wind speed on Data Logger (kph):	5.7	Wind Direction on Data Logger:	SW
		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:	Limin Li
Audit Date:	August 3, 2023	Start/End Time (mst):	14:01 / 15:03
Calibration Purpose:	routine annual	Weather Conditions:	Rain fall heavy at times

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 #:	180340	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	August 5, 2022	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	110.1	1.003
7000	129.0	128.9	129.3	0.999
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	2	354	2.0	1.0	1.5
30	330	31	331	-1.0	-1.0	1.0
60	300	60	301	0.0	-1.0	0.5
90	270	90	271	0.0	-1.0	0.5
120	240	119	240	1.0	0.0	0.5
150	210	148	207	2.0	3.0	2.5
180	180	178	178	2.0	2.0	2.0
210	150	208	148	2.0	2.0	2.0
240	120	240	122	0.0	-2.0	1.0
270	90	272	90	-2.0	0.0	1.0
300	60	301	60	-1.0	0.0	0.5
330	30	331	32	-1.0	-2.0	1.5
355	0	354	2	1.0	2.0	1.5
The audit meets AMD requirements.			Average Absolute Degrees Difference=		1.2	

Comments:

Declination = 15 deg East
Physical inspection completed, no issues



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Chris Wesson
Audit Location:	986C	Reviewed By:	Limin Li
Audit Date:	August 22, 2024	Start/End Time (mst):	17:37 / 18:34
Calibration Purpose:	routine annual	Weather Conditions:	Mainly sunny

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 #:	180340	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	August 3, 2023	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	2	354	2.0	1.0	1.5
30	330	30	329	0.0	1.0	0.5
60	300	58	302	2.0	-2.0	2.0
90	270	87	270	3.0	0.0	1.5
120	240	118	238	2.0	2.0	2.0
150	210	146	206	4.0	4.0	4.0
180	180	175	176	5.0	4.0	4.5
210	150	206	146	4.0	4.0	4.0
240	120	238	118	2.0	2.0	2.0
270	90	271	88	-1.0	2.0	1.5
300	60	302	58	-2.0	2.0	2.0
330	30	331	32	-1.0	-2.0	1.5
355	0	354	2	1.0	2.0	1.5
The audit meets AMD requirements.				Average Absolute Degrees Difference=		2.2

Comments:

Declination = 15 deg East
Physical inspection completed, no issues
Potentiometer noisy, replacement needed

END OF REPORT



Peace River Area Monitoring Program

AUGUST 2024

Ambient Air Monitoring Calibration Report

- RENO-B STATION-

CAL-PRAMP-202408-01563

Operation and Maintenance:

Bureau Veritas Canada

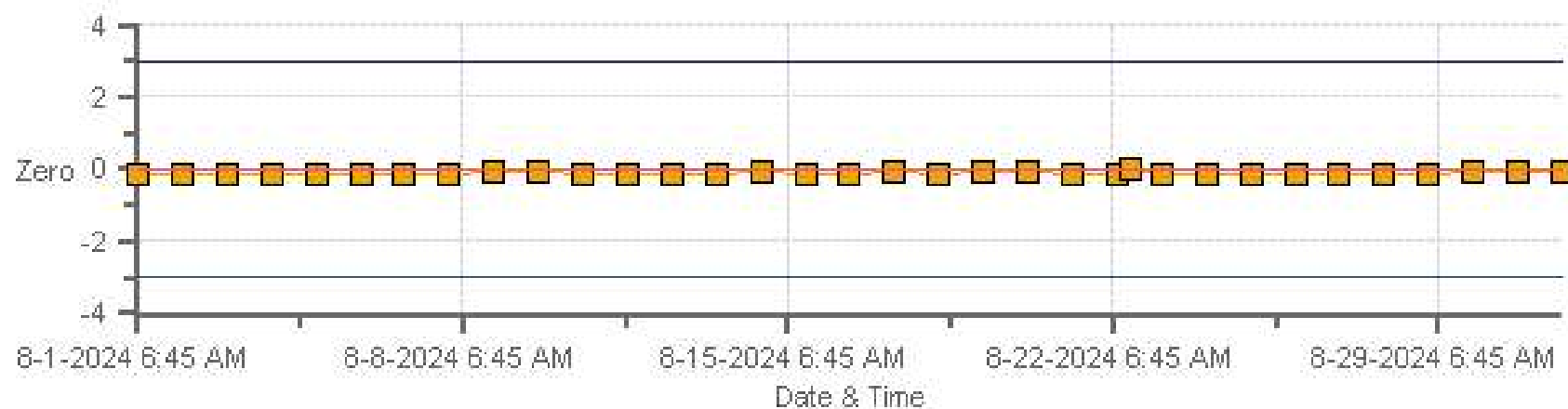
Data Validation and Report:

Bureau Veritas Canada

September 20, 2024

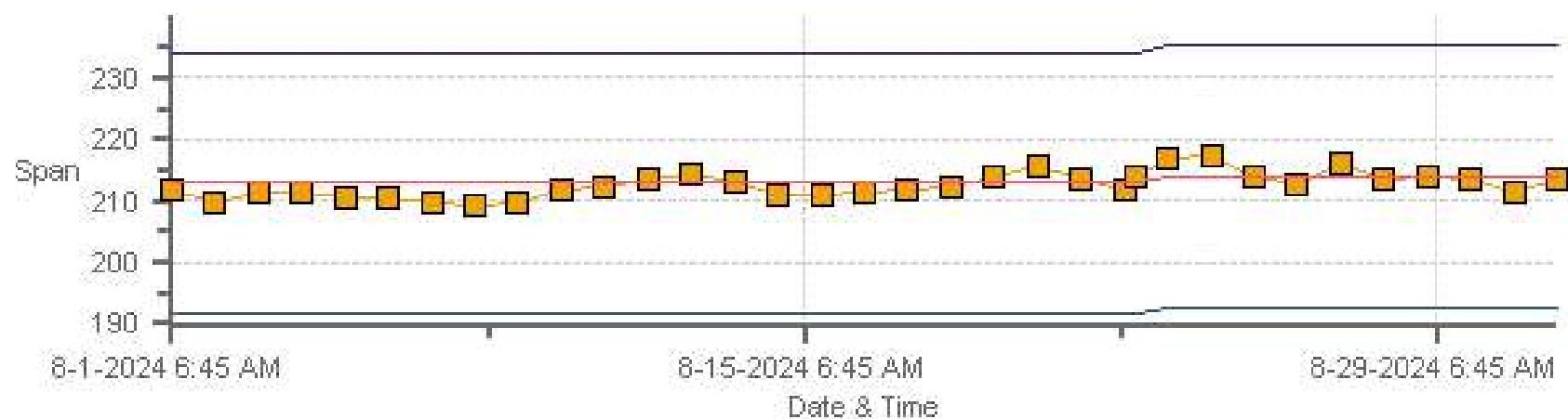
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO₂[ppb] Calibration: PRAMP RENO-B Monthly: 08-2024 Type: SpanAndZero - Zero



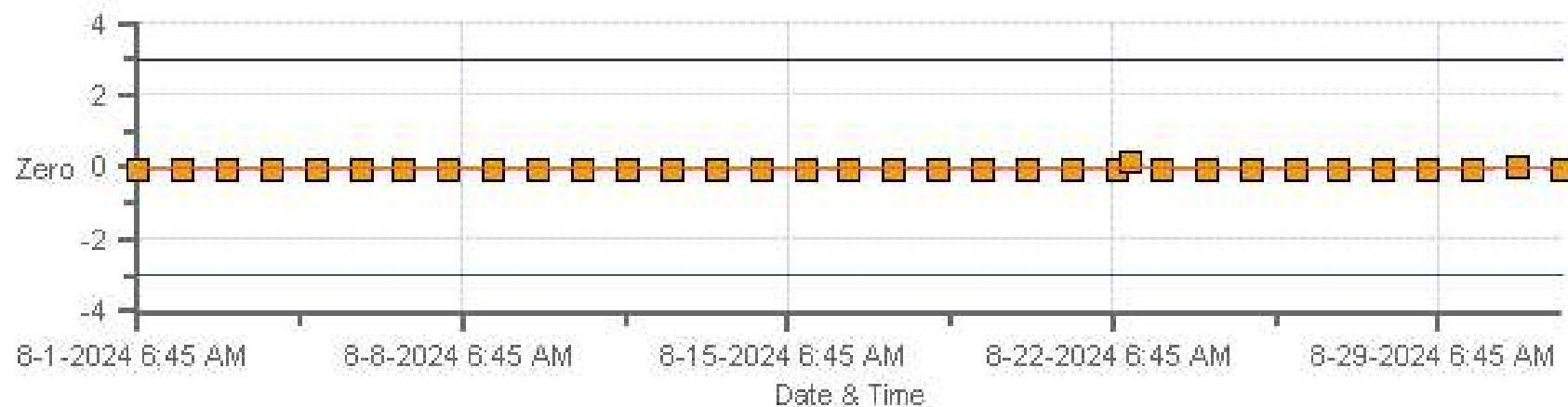
Zero Zero Ref Zero Low Zero High

SO₂[ppb] Calibration: PRAMP RENO-B Monthly: 08-2024 Type: SpanAndZero - Span



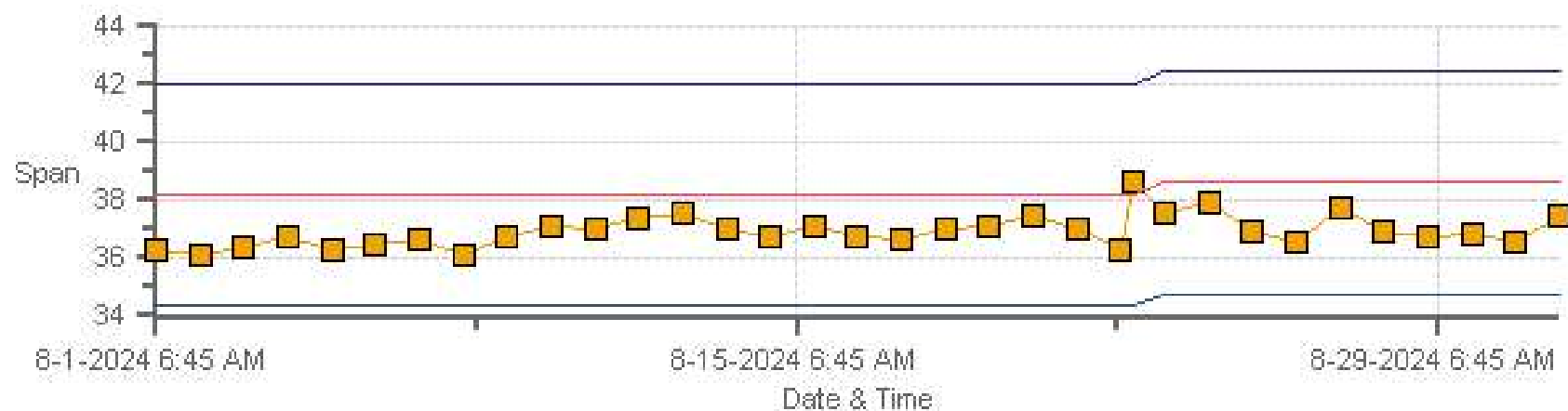
Span Span Ref Span Low Span High

TRS[ppb] Calibration: PRAMP RENO-B Monthly: 08-2024 Type: SpanAndZero - Zero



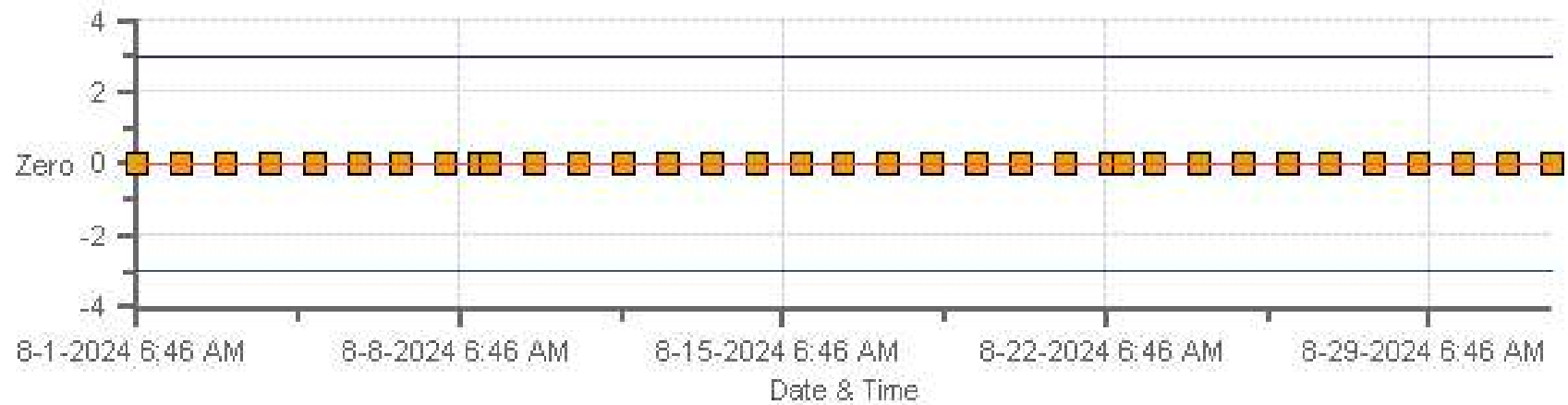
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: PRAMP RENO-B Monthly: 08-2024 Type: SpanAndZero - Span



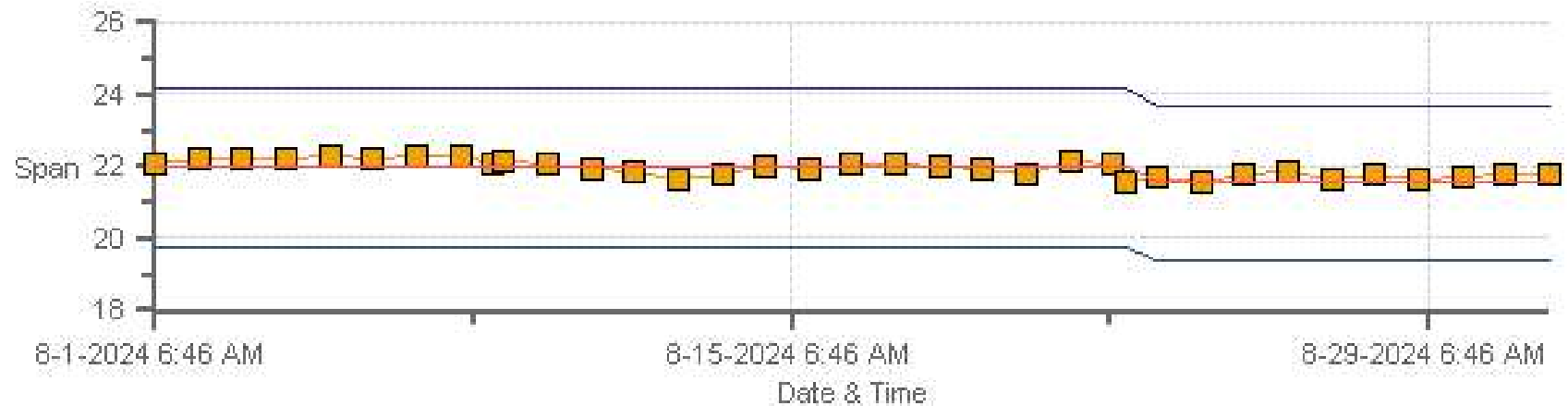
Span Span Ref Span Low Span High

THC55[ppm] Calibration: PRAMP RENO-B Monthly: 08-2024 Type: SpanAndZero - Zero



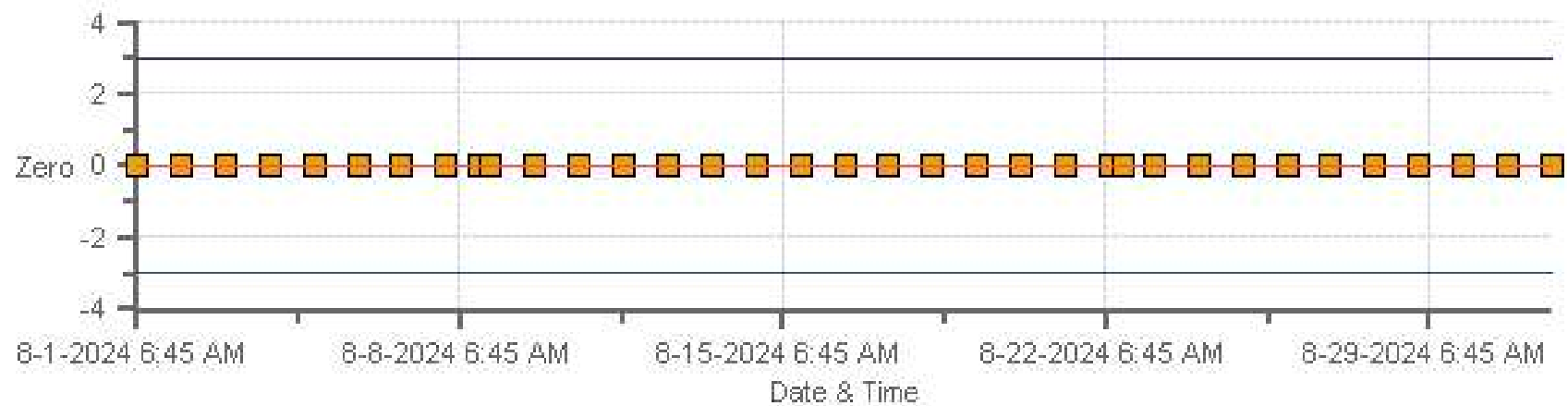
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: PRAMP RENO-B Monthly: 08-2024 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

CH4[ppm] Calibration: PRAMP RENO-B Monthly: 08-2024 Type: SpanAndZero - Zero



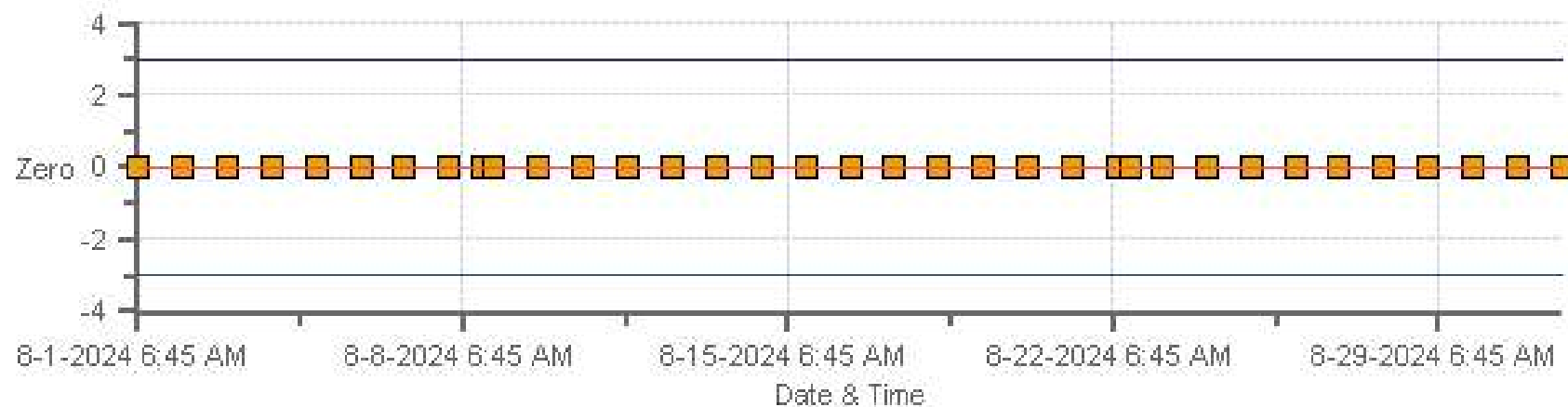
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: PRAMP RENO-B Monthly: 08-2024 Type: SpanAndZero - Span



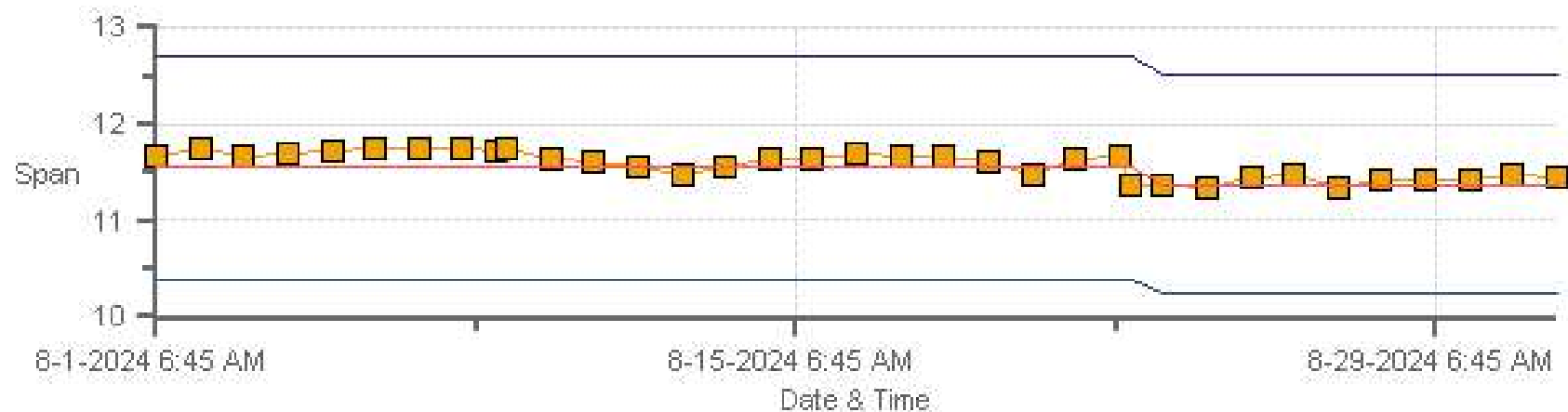
Span SpanRef Span Low Span High

NMHC[ppm] Calibration: PRAMP RENO-B Monthly: 08-2024 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP RENO-B Monthly: 08-2024 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	22-Aug-2024	PREVIOUS CALIBRATION DATE:	19-Jul-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.997
CLIENT:	PRAMP	TEMPERATURE (°C):	23.1
LOCATION:	Reno-B	BAROMETRIC (mBar):	941
PURPOSE:	Routine	START TIME (MST):	11:31
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	15:33

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	500 ppb
SERIAL #	12101910505	FLOW (mL/min)	434
INITIAL		FINAL	
BKG/OFFSET	1.29	BKG/OFFSET	1.3
COEF/SLOPE	0.899	COEF/SLOPE	0.902
Expected (reference) Value	212.9	Expected (reference) Value	213.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL109693	HIGH ID	n/a
CONC (ppm):	25.00	EXPIRY DATE	n/a
CYLINDER (psi):	600	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:

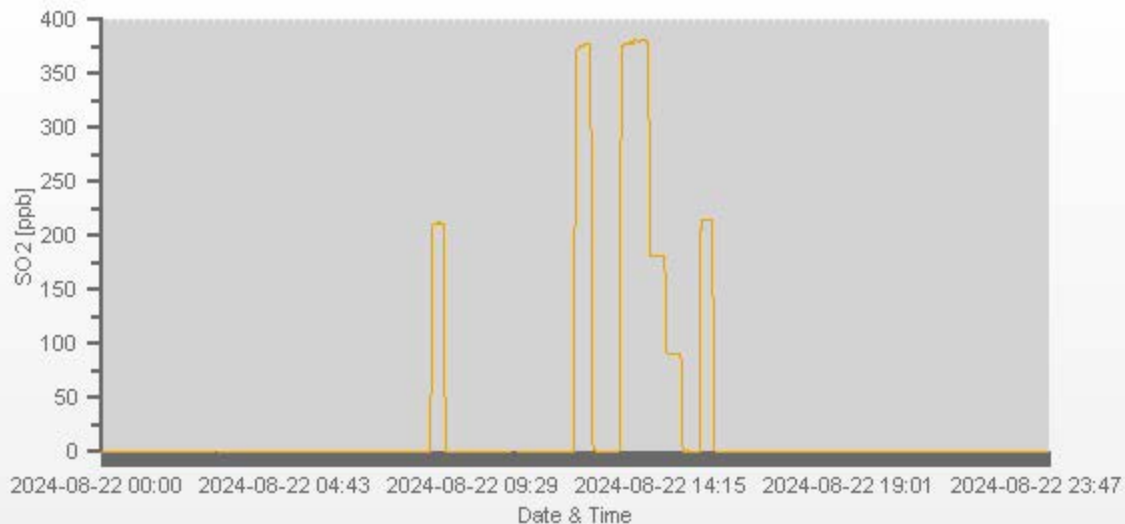
FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3998	60.80	3998	0.00	-0.1	0	1.010	0.995
3938	60.80	3999	380.10	376.1	381.9	1.010	0.995
3971	28.80	4000	180.00	n/a	181	n/a	0.994
3986	14.40	4000	90.00	n/a	90.9	n/a	0.990

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.004	0.0%

COMMENTS:

Sample filter changed



TRS Analyzer Calibration by Dilution



DATE:	22-Aug-2024	PREVIOUS CALIBRATION DATE:	19-Jul-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.995
CLIENT:	PRAMP	TEMPERATURE (°C):	23.1
LOCATION:	Reno-B	BAROMETRIC (mBar):	941
PURPOSE:	Routine	START TIME (MST):	11:31
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	15:33

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	12101910504	FLOW (mL/min)	386
INITIAL		FINAL	
BKG/OFFSET	1.09	BKG/OFFSET	1.1
COEF/SLOPE	0.903	COEF/SLOPE	0.912
Expected (reference) Value	38.19	Expected (reference) Value	38.6

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	1100	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3998	30.90	3998	0.00	-0.07	0	1.027	1.000
3968	30.90	3999	77.96	75.87	77.98	1.027	1.000
3985	15.10	4000	38.09	n/a	38.1	n/a	1.000
3993	7.50	4000	18.92	n/a	19.21	n/a	0.985

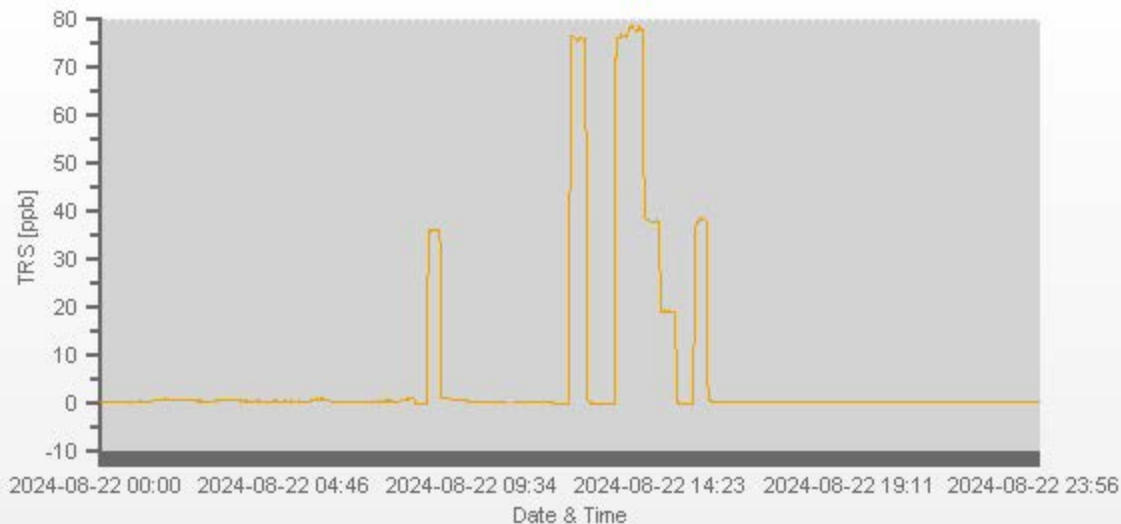
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.1%

COMMENTS:

Sample filter changed

TRS[ppb] Station: PRAMP RENO-B Daily: 2024-08-22 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202408-01563

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	22-Aug-2024	PREVIOUS CALIBRATION DATE:	19-Jul-2024	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	23.2		Thermo 55i	1193585652	1104
LOCATION:	Reno-B	BAROMETRIC (mBar):	941	PARAMETER:	CH4	NMHC	THC
PURPOSE:	Routine	START TIME (MST):	11:31	RANGE (ppm):	20	20	40
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	15:01	PREVIOUS CF:	0.998	0.997	0.998

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL68768	HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	CH ₄ /C ₃ H ₈ (ppm):	897.0 301.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	80	CYLINDER (psi):	700	LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a	EXPIRY DATE	08-Nov-2029	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	827.75	Use Zero Chrom?	No
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1724.75	New Zero Chrom?	n/a

EXPECTED (REFERENCE) VALUE:

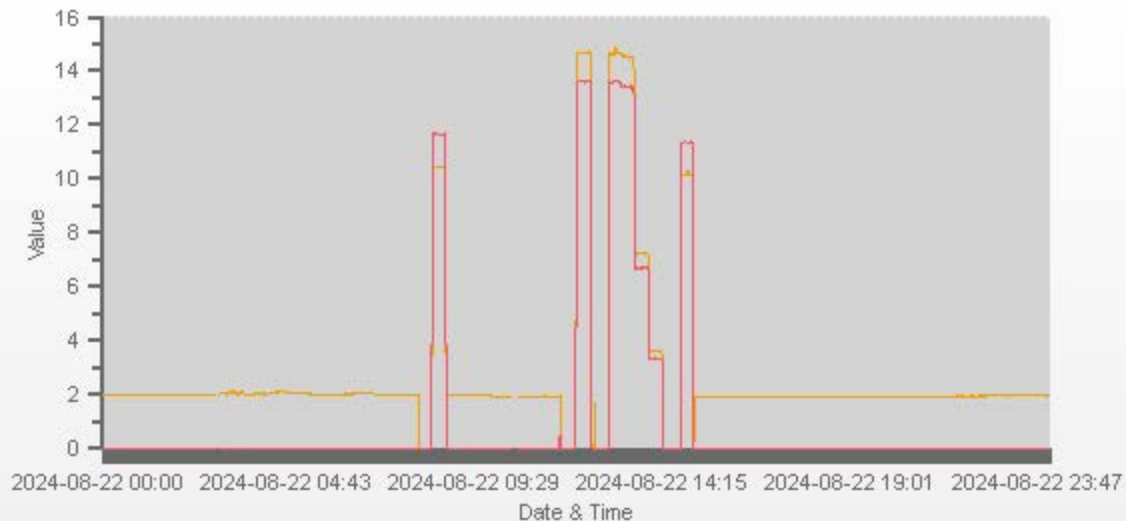
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	10.43	11.55	21.97		10.16	11.37	21.53

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3499	X	3499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
3443	56.80	3500	14.56	13.43	27.99	14.67	13.61	28.28	14.52	13.40	27.92	0.992	0.987	0.990	1.003	1.002	1.003
3472	28.40	3500	7.28	6.72	14.00	n/a	n/a	n/a	7.24	6.70	13.94	n/a	n/a	n/a	1.005	1.002	1.004
3487	14.20	3501	3.64	3.36	7.00	n/a	n/a	n/a	3.64	3.35	7.00	n/a	n/a	n/a	1.000	1.002	0.999

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments: Sample filter Changed
CH ₄	1.000	0.997	0.0%	
NMHC	1.000	0.998	0.0%	
THC	1.000	0.997	0.0%	



CAL-PRAMP-202408-01563

Page 14 of 18
CH4 [ppm] NMHC [ppm]

Meteorological System Checklist



Date:	August 22, 2024		
Technician:	Kevin Sebastian		
Station:	PRAMP Reno-B		
Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 15877
Temperature Sensor:	Rotronic	HC2-S3	20467597
Barometric Pressure Sensor:	MetOne	92	A17940
Relative Humidity Sensor:	Rotronic	HC2-S3	20467597
Anemometer:	RM Young	05305AQ	174795
PRECIPITATION SENSOR CHECK			
Checklist:	Reply:	Comments:	
Previous check date:	July 12, 2024		
Is the sensor Level?	yes		
Is the heater operating properly?	yes		
Are the bucket drain holes clean?	yes	Audit:13:56-13:59	
Is the screen on the housing? (screen should be on between July and September)	no		
Is the housing clean?	yes		
Is the area around the housing clean and free from obstacles?	yes		
TIP TEST - Slowly pour water until 10 tip are heard. (10 tips = 1 ml)			
# of Tips	Data Logger Response (ml):	Manual Specification = +/- 0.1 ml	
10	1.00	0.00	
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	July 12, 2024		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	FS 181341226 expires July 17, 2024		
Reference Temperature (°C):	20.0		
Station - Ambient Temperature (°C):	19.7		
Temperature Difference (°C):	0.3		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	July 12, 2024		
Reference Barometer ID:	Equipment ID - 05535 Brunton Expiry - July 17 2024		
Reference Pressure - Units/Reading:	millibar	938	
Station Pressure - Units/Reading:	millibar	938.9	
Pressure Tolerance +/- 15% of error:	797 - 1079	-0.10%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	July 12, 2024		
Reference Hygrometer ID:	FS 181341226 expires July 17, 2024		
Reference Hygrometer % RH- Reading:	49.30		
Station Hygrometer % RH- Reading:	54.80		
RH Tolerance +/- 15% of difference:	41.91 - 56.70	-11.2%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:		Previous check date:	
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	SE
Wind speed on Data Logger (kph):	17	Wind Direction on Data Logger:	SE
		Wind Direction Pass/Fail?:	Pass
Comments			



Meteorological Sensor Audit/Calibration

Location Information

Company: PRAMP
Audit Location: Reno-B
Audit Date: August 1, 2023
Calibration Purpose: routine annual

Performed By: Chris Wesson
Reviewed By: Limin Li
Start/End Time (mst): 09:54 / 11:18
Weather Conditions: Mainly cloudy with drizzle

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 #:	174795	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	November 23, 2022	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	184.6	0.999
The audit meets AMD requirements.			Average Correction Factor=	1.002

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

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	1	354	1.0	1.0	1.0
30	330	30	332	0.0	-2.0	1.0
60	300	60	302	0.0	-2.0	1.0
90	270	89	272	1.0	-2.0	1.5
120	240	120	241	0.0	-1.0	0.5
150	210	149	211	1.0	-1.0	1.0
180	180	181	182	-1.0	-2.0	1.5
210	150	211	150	-1.0	0.0	0.5
240	120	241	120	-1.0	0.0	0.5
270	90	271	90	-1.0	0.0	0.5
300	60	301	60	-1.0	0.0	0.5
330	30	331	29	-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=		0.9	

Comments:

Declination = 15 deg East
Physical inspection completed, no issues



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Chris Wesson
Audit Location:	Reno-B	Reviewed By:	Limin Li
Audit Date:	August 23, 2024	Start/End Time (mst):	09:46 - 10:48
Calibration Purpose:	routine annual	Weather Conditions:	Mainly sunny

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 #:	174795	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	August 1, 2023	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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

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

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

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	1	354	1.0	1.0	1.0
30	330	30	332	0.0	-2.0	1.0
60	300	59	304	1.0	-4.0	2.5
90	270	88	273	2.0	-3.0	2.5
120	240	120	242	0.0	-2.0	1.0
150	210	150	213	0.0	-3.0	1.5
180	180	181	182	-1.0	-2.0	1.5
210	150	209	151	1.0	-1.0	1.0
240	120	240	119	0.0	1.0	0.5
270	90	272	88	-2.0	2.0	2.0
300	60	304	60	-4.0	0.0	2.0
330	30	331	30	-1.0	0.0	0.5
355	0	354	2	1.0	2.0	1.5
The audit meets AMD requirements.			Average Absolute Degrees Difference=		1.4	

Comments:

Declination = 15 deg East
Physical inspection completed. Repalced horizontal bearings

END OF REPORT



Peace River Area Monitoring Program

AUGUST 2024

Ambient Air Monitoring Calibration Report

- AQHI - GRIMSHAW STATION-

CAL-PRAMP-202408-01689

Operation and Maintenance:

Bureau Veritas Canada

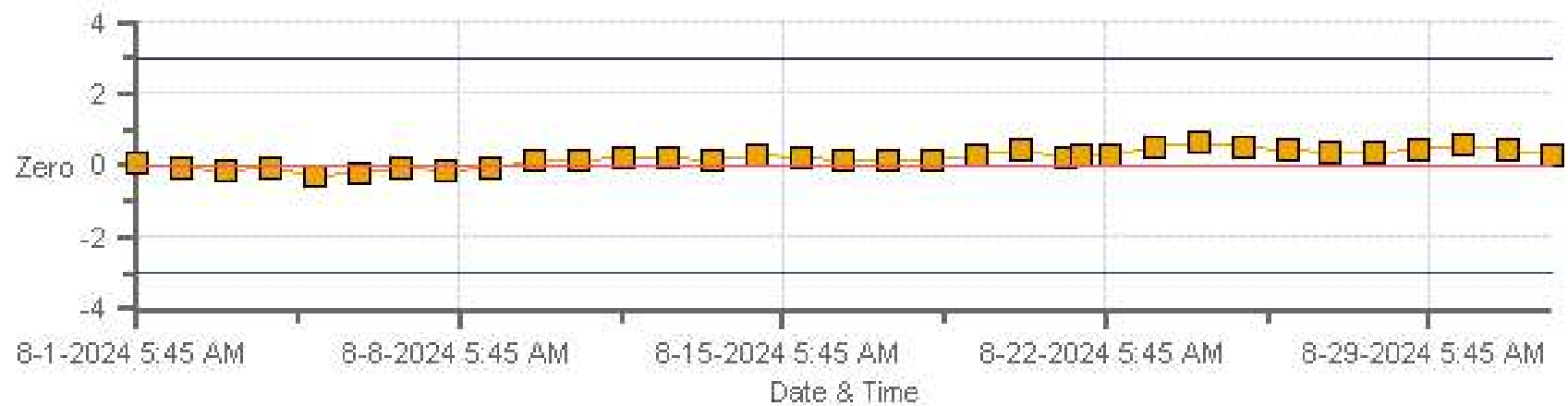
Data Validation and Report:

Bureau Veritas Canada

September 20, 2024

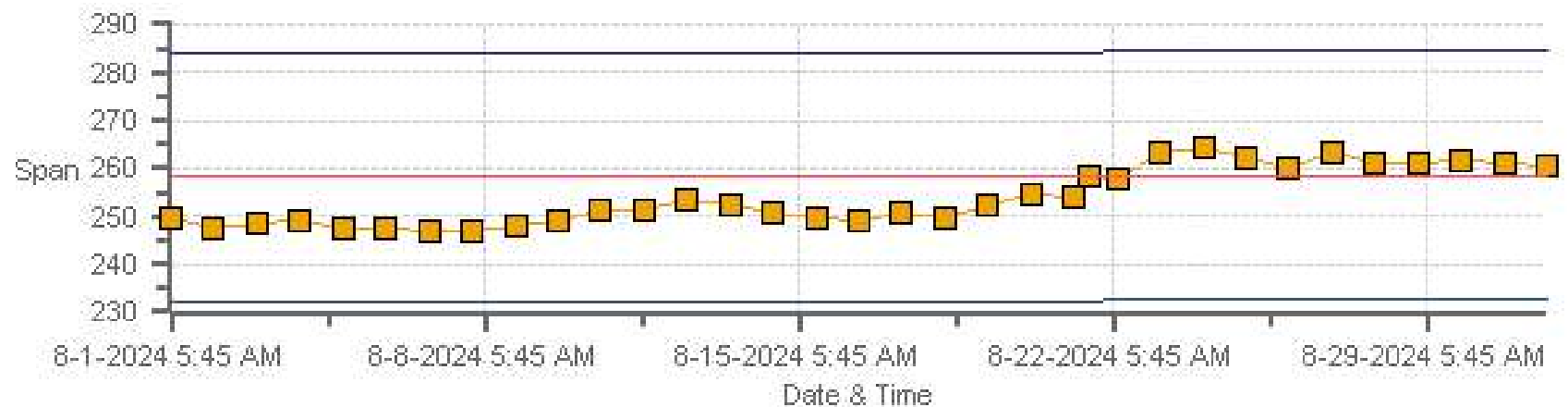
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO₂[ppb] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Zero



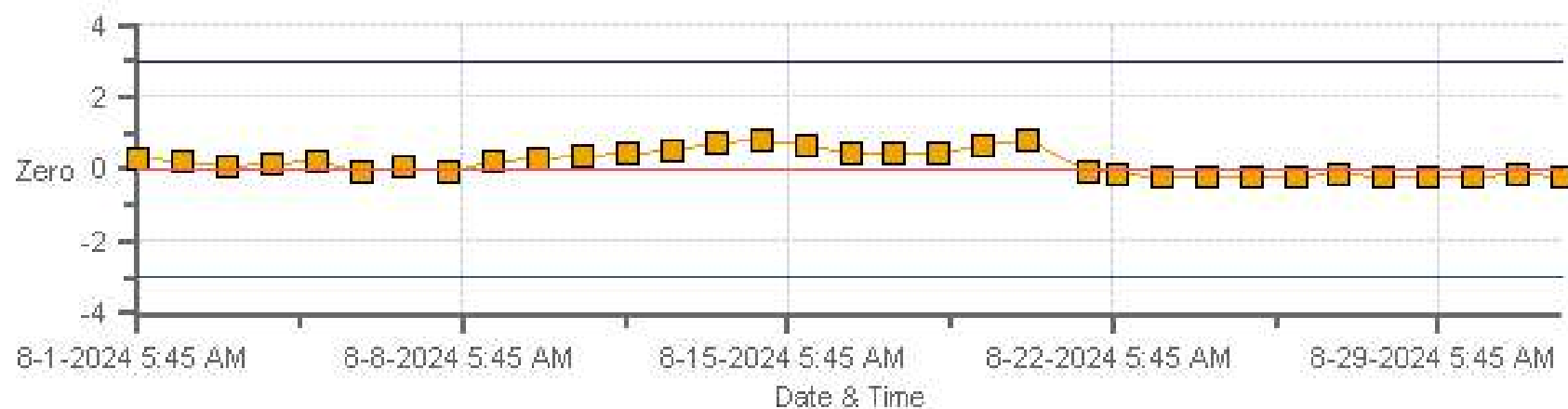
Zero Zero Ref Zero Low Zero High

SO₂[ppb] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Span



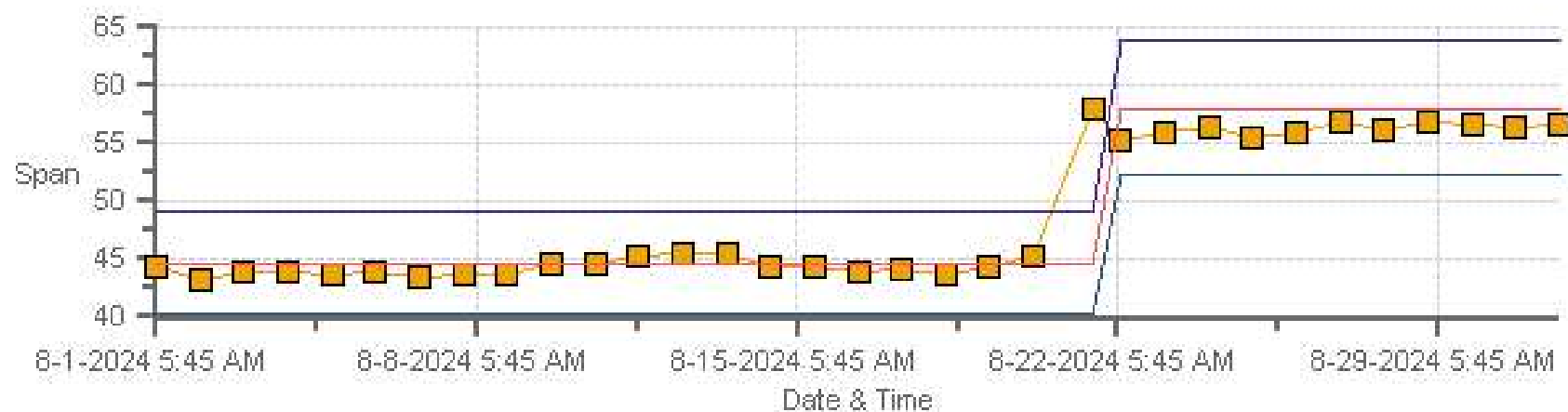
Span Span Ref Span Low Span High

TRS[ppb] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Zero



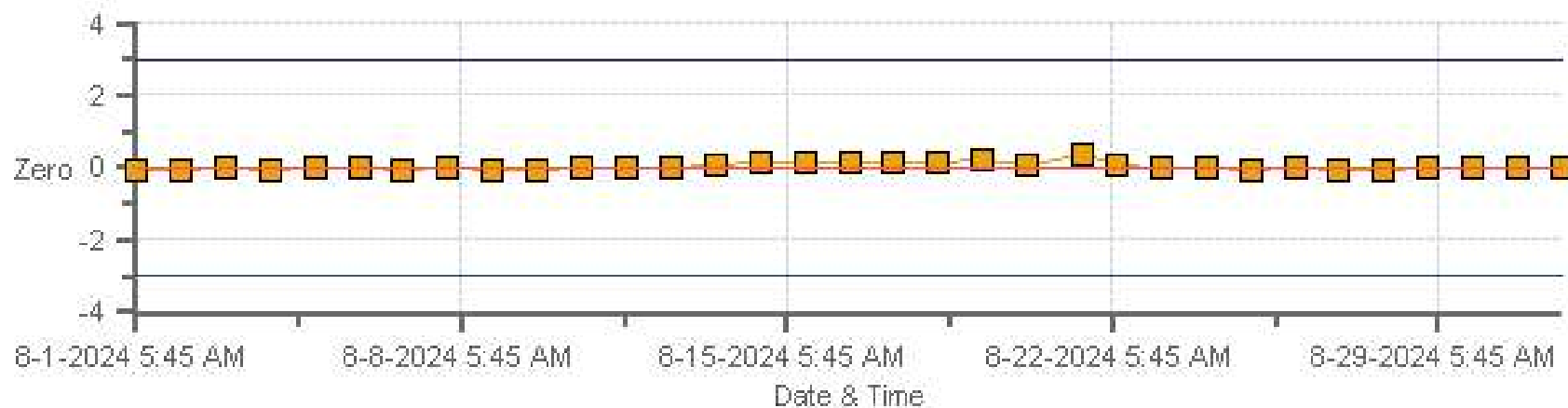
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Span



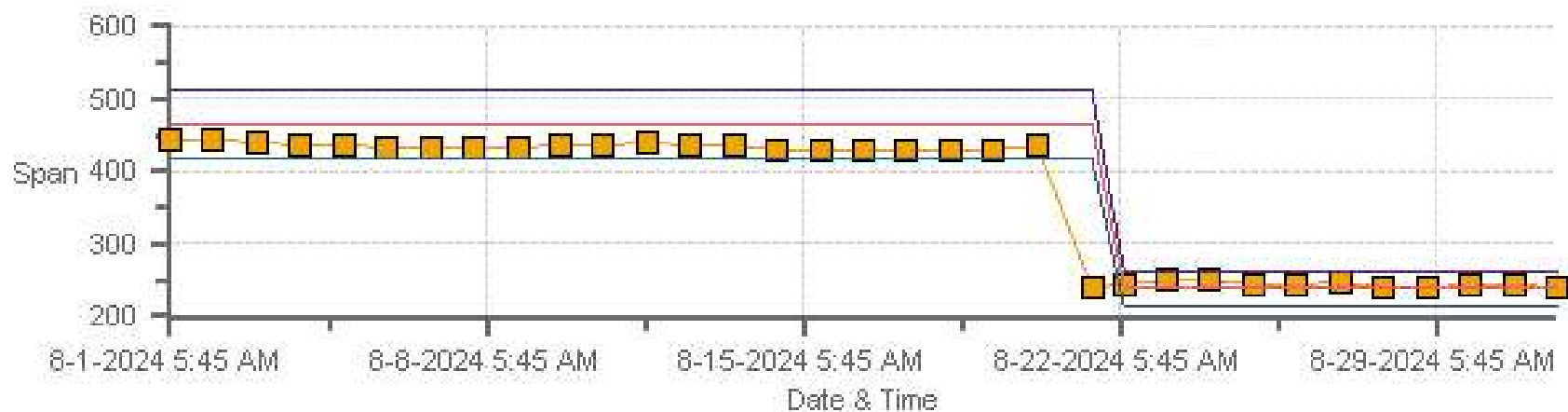
Span Span Ref Span Low Span High

NOX[ppb] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Zero



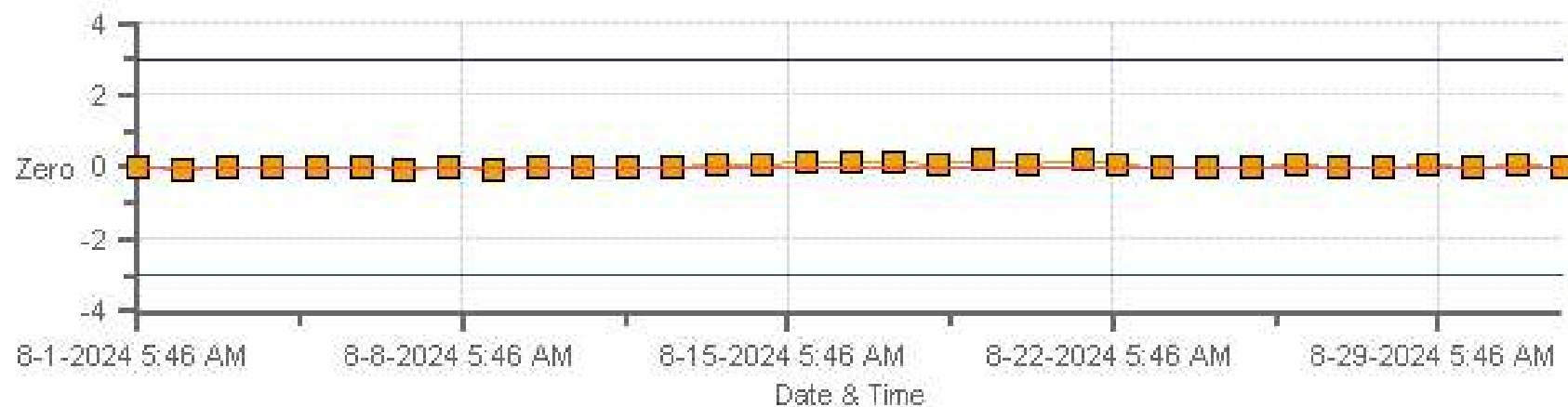
Zero Zero Ref Zero Low Zero High

NOX[ppb] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Span



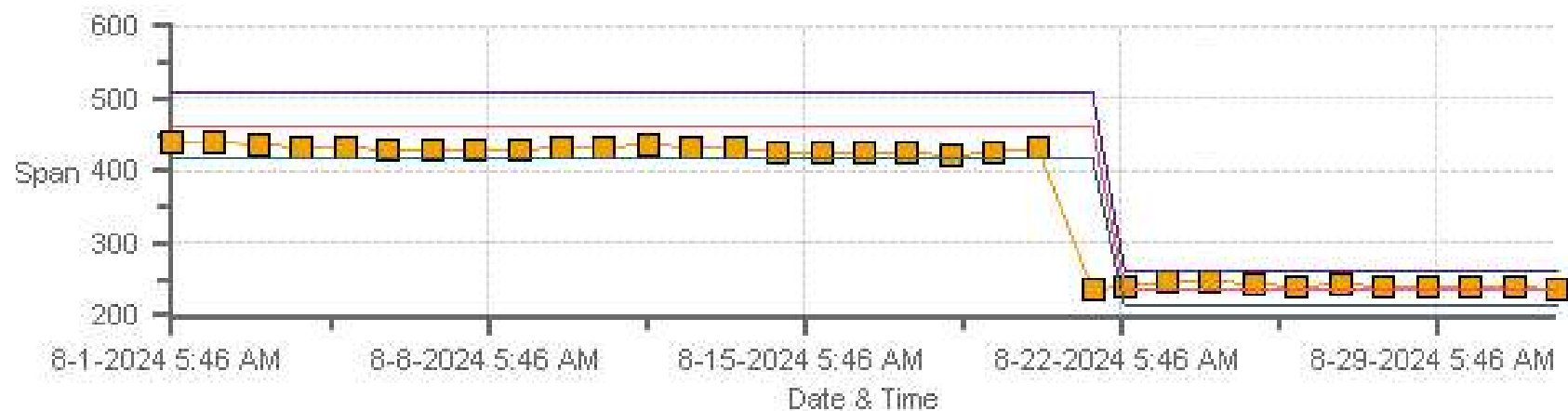
Span SpanRef Span Low Span High

NO2[ppb] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Zero



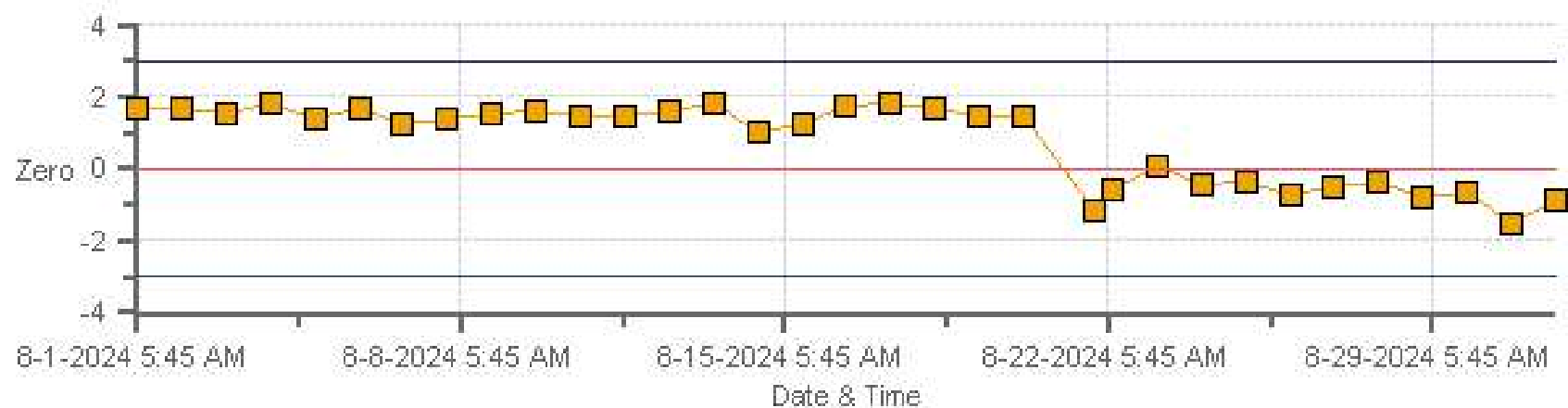
Zero Zero Ref Zero Low Zero High

NO2[ppb] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Span



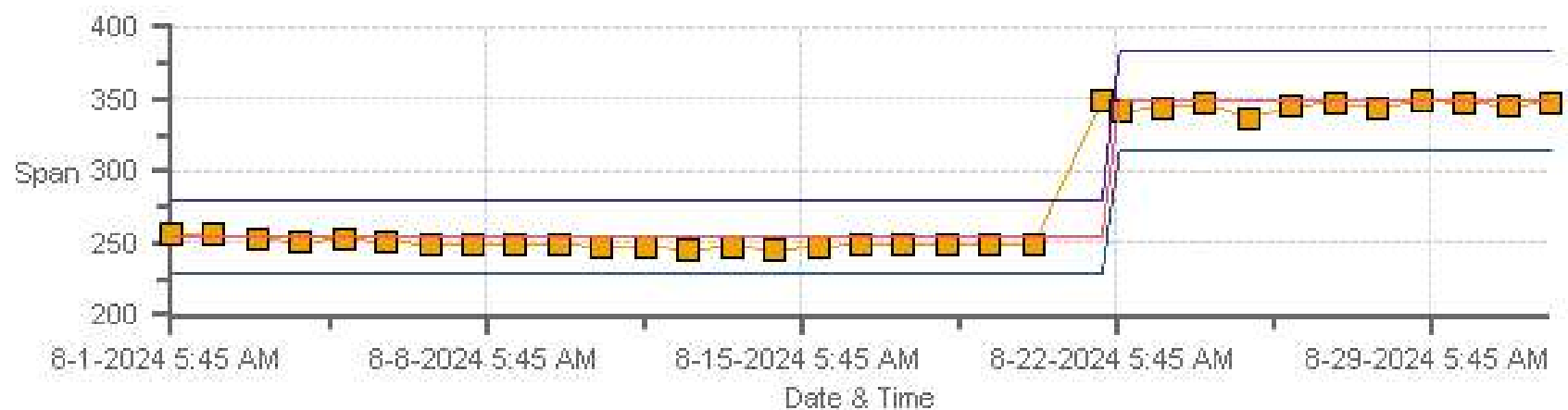
Span Span Ref Span Low Span High

O3[ppb] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero -Zero



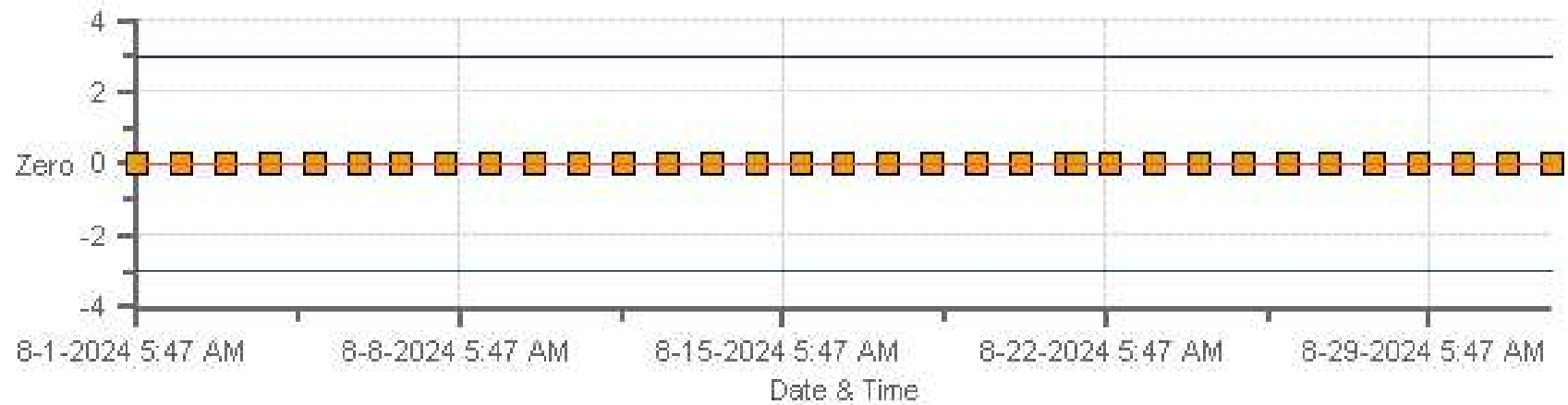
Zero Zero Ref Zero Low Zero High

O3[ppb] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero -Span

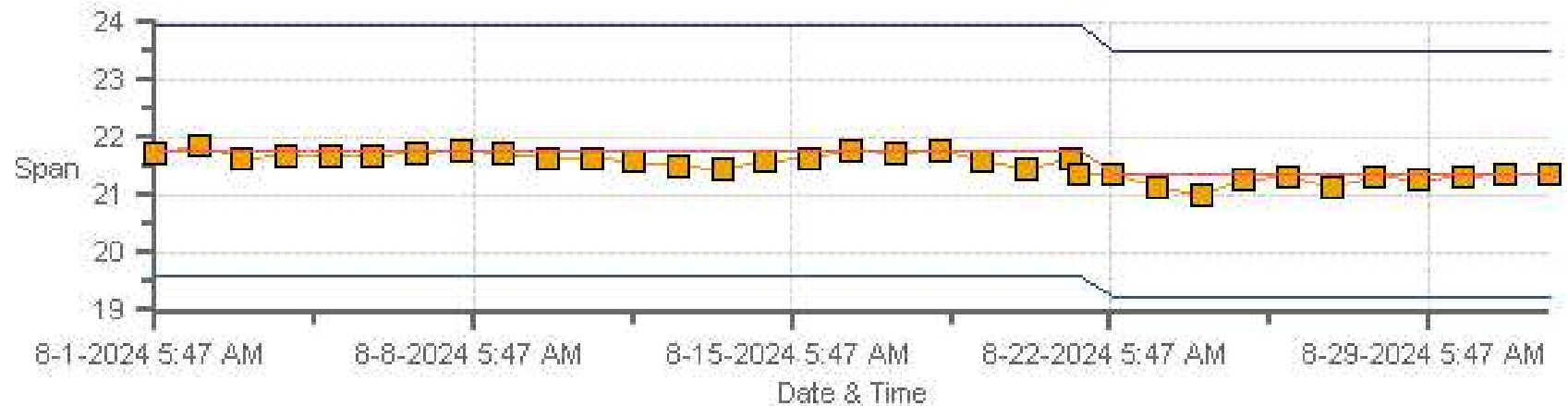


Span Span Ref Span Low Span High

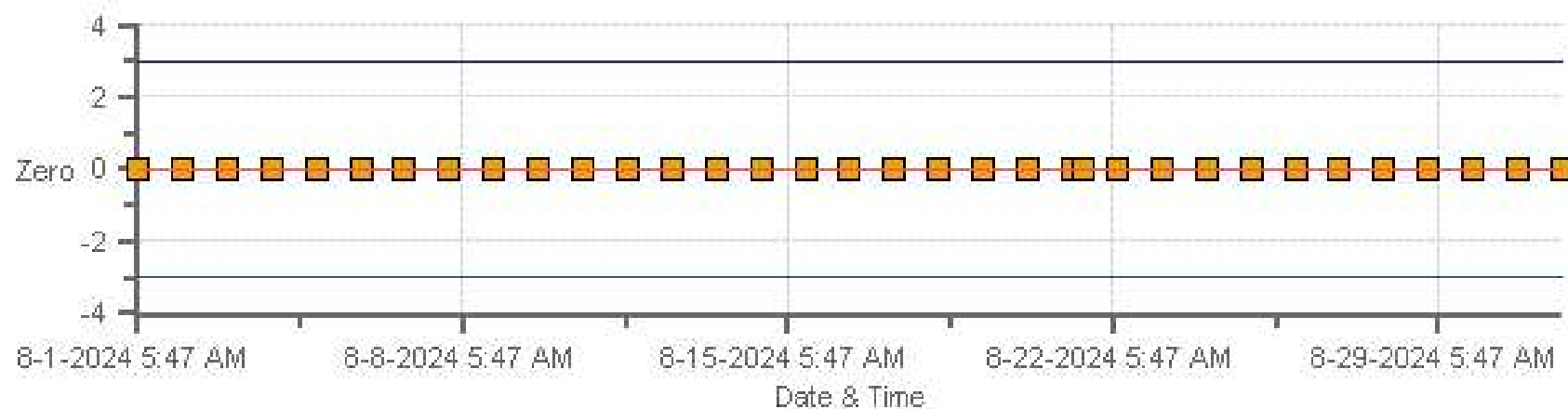
THC55[ppm] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Zero



THC55[ppm] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Span



CH4[ppm] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Zero



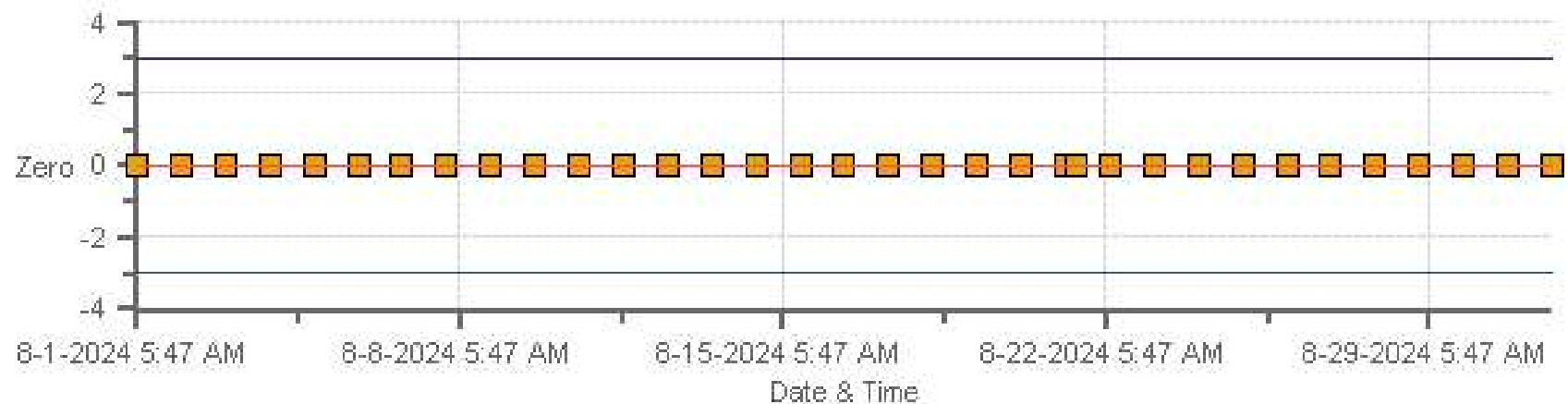
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Span



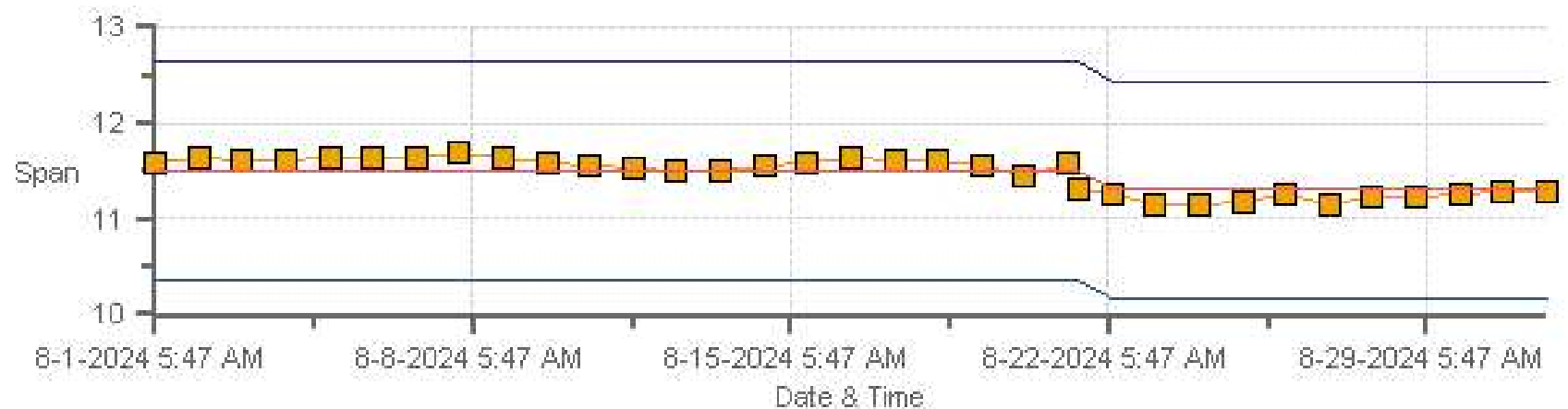
Span SpanRef Span Low Span High

NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 08-2024 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	21-Aug-2024	PREVIOUS CALIBRATION DATE:	10-Jul-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	20.6
LOCATION:	Grimshaw	BAROMETRIC (mBar):	946
PURPOSE:	Routine	START TIME (MST):	13:08
PERFORMED BY:	Chris Wesson	END TIME (MST):	16:58

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	469
INITIAL		FINAL	
BKG/OFFSET	36.1	BKG/OFFSET	35.6
COEF/SLOPE	0.871	COEF/SLOPE	0.893
Expected (reference) Value	258.2	Expected (reference) Value	258.6

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Sabio
MODEL:	2010	MODEL:	2020EXP
ID:	75401122	ID:	18700921
MFC CALIBRATION DATE:	11-Mar-2024	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):	550	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:

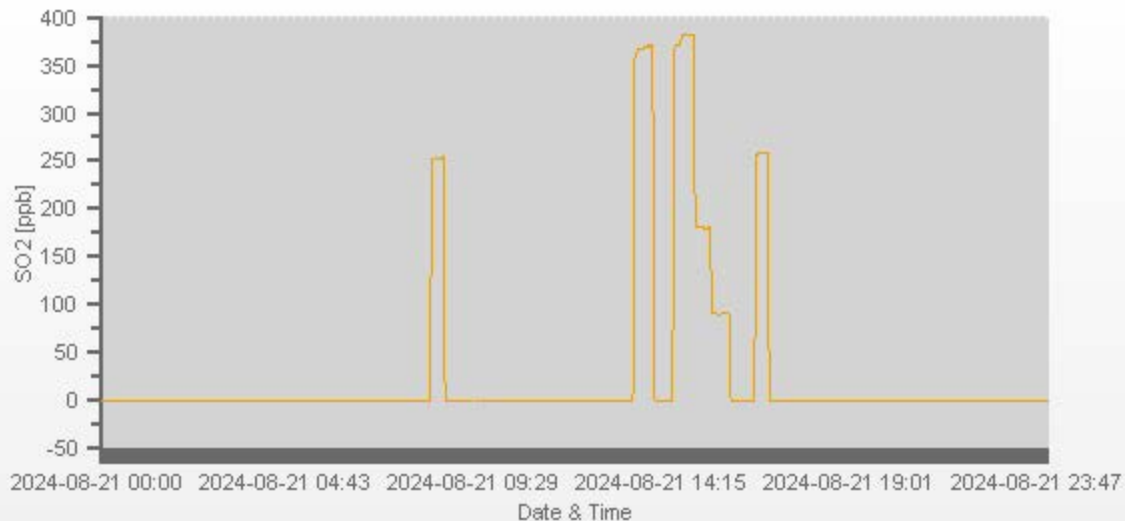
FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999	60.80	3999	0.00	-0.2	0	1.032	1.000
3939	60.80	4000	381.52	369.6	381.7	1.032	1.000
3971	28.80	4000	180.72	n/a	180.9	n/a	0.999
3985	14.40	3999	90.38	n/a	91.3	n/a	0.990

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

No issues



TRS Analyzer Calibration by Dilution



DATE:	20-Aug-2024	PREVIOUS CALIBRATION DATE:	10-Jul-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	19.9
LOCATION:	Grimshaw	BAROMETRIC (mBar):	933
PURPOSE	Removal/Shut-down	START TIME (MST):	11:31
PERFORMED BY:	Chris Wesson	END TIME (MST):	13:56

ANALYZER:

MAKE/MODEL	Teledyne T100U	RANGE	100 ppb
SERIAL #	132	FLOW (mL/min)	535
INITIAL		FINAL	
BKG/OFFSET	68.8	BKG/OFFSET	n/a
COEF/SLOPE	0.657	COEF/SLOPE	n/a
Expected (reference) Value	44.65	Expected (reference) Value	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Sabio
MODEL:	2010	MODEL:	2020EXP
ID:	75401122	ID:	18700921
MFC CALIBRATION DATE:	11-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002455	HIGH ID	n/a
CONC (ppm):	9.70	EXPIRY DATE	n/a
CYLINDER (psi):	1800	LOW ID	n/a
EXPIRY DATE	29-Sep-2026	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

START TIME:	12:14	SO2 Conc (ppb)	380
END TIME:	12:30	Analyzer Response (ppb)	0.0

CALIBRATION:

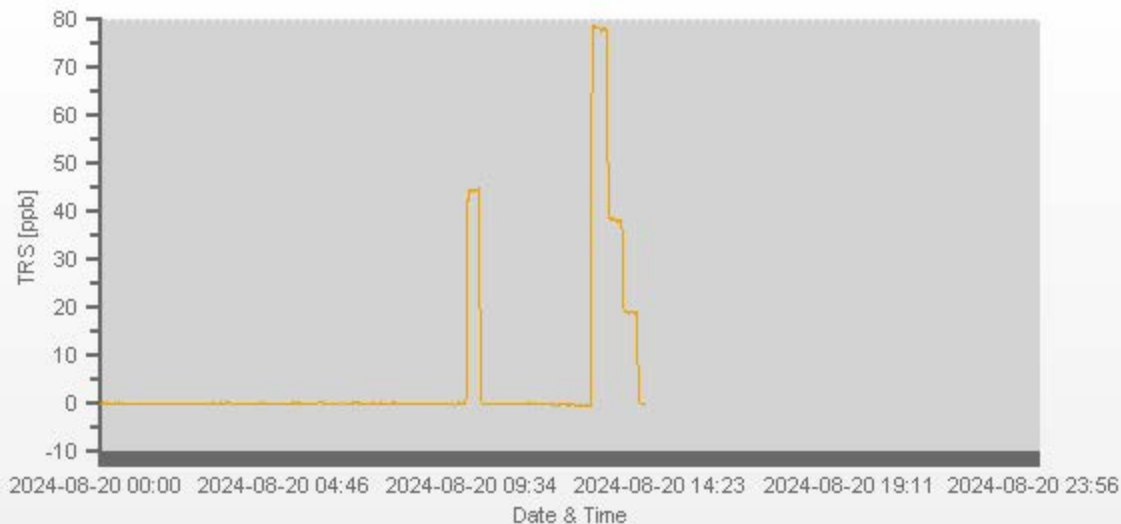
FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999	32.20	3999	0.00	0.65	n/a	0.999	n/a
3968	32.20	4000	78.09	78.82	n/a	0.999	n/a
3984	15.70	4000	38.07	38.9	n/a	0.995	n/a
3991	7.80	3999	18.92	19.74	n/a	0.991	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.7%

COMMENTS:

No issues



TRS Analyzer Calibration by Dilution



DATE:	21-Aug-2024	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	22.4
LOCATION:	Grimshaw	BAROMETRIC (mBar):	946
PURPOSE	Install/Post-Repair	START TIME (MST):	14:00
PERFORMED BY:	Chris Wesson	END TIME (MST):	16:58

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	12409233394	FLOW (mL/min)	356
INITIAL		FINAL	
BKG/OFFSET	1.79	BKG/OFFSET	1.45
COEF/SLOPE	1	COEF/SLOPE	1.016
Expected (reference) Value	n/a	Expected (reference) Value	58

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Sabio
MODEL:	2010	MODEL:	2020EXP
ID:	75401122	ID:	18700921
MFC CALIBRATION DATE:	11-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002455	HIGH ID	n/a
CONC (ppm):	9.70	EXPIRY DATE	n/a
CYLINDER (psi):	1800	LOW ID	n/a
EXPIRY DATE	29-Sep-2026	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

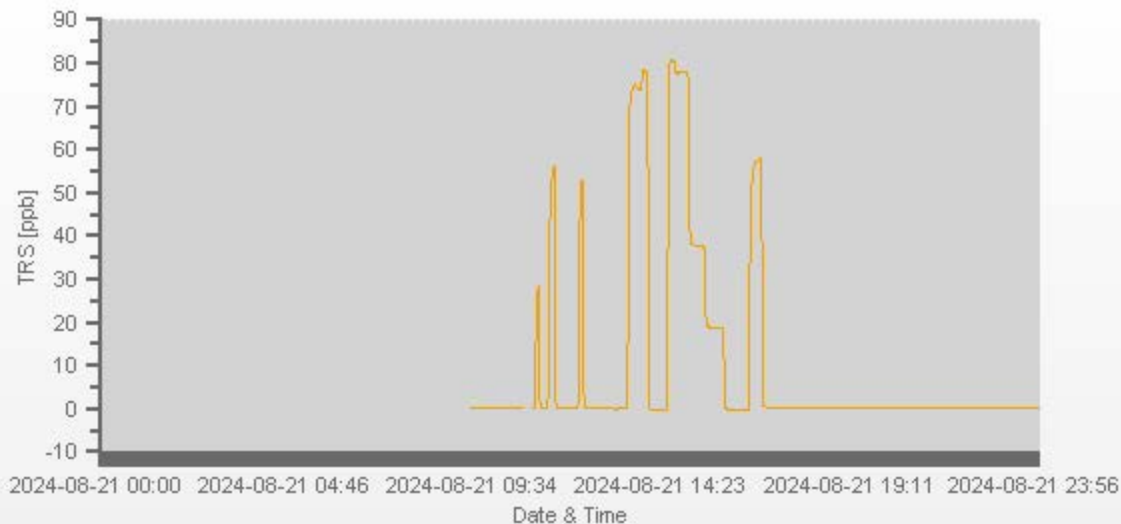
FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999	32.20	3999	0.00	n/a	0	n/a	1.000
3968	32.20	4000	78.09	n/a	78.08	n/a	1.000
3984	15.70	4000	38.07	n/a	37.85	n/a	1.006
3991	7.80	3999	18.92	n/a	19.01	n/a	0.995

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.0%

COMMENTS:

No issues



NOx Calibration by Dilution/Gas-Phase Titration



CALIBRATION:				ANALYZER:			
DATE:	20-Aug-2024	PREVIOUS CALIBRATION DATE:	16-Jul-2024	MAKE/MODEL:	Thermo 42i	PREVIOUS CF.	
CLIENT:	PRAMP	TEMPERATURE (°C):	19.9	SERIAL #:	1173100003	NOx	1.000
LOCATION:	Grimshaw	BAROMETRIC (mBar):	933	FLOW (mL/min)	827	NO	0.998
PURPOSE:	Removal/Shut-down	START TIME (MST):	11:31	RANGE (ppb)	500	NO2	1.003
PERFORMED BY:	Chris Wesson	END TIME (MST):	16:48	GPT FOR O3?	No		

CALIBRATION SYSTEM:							
CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Sabio	CYLINDER ID:	EY0001013	HIGH ID:	n/a
MODEL:	2010	MODEL:	2020EXP	NO/NOx (PPM):	49.2 49.4	HIGH EXPIRY:	n/a
ID:	26801218	ID:	18700921	CYLINDER (psi):	900	LOW ID:	n/a
MFC CALIBRATION DATE:	12-Mar-2024	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:	6.3	6.1	n/a	BKG/OFFSET:	n/a	n/a	n/a
SLOPE/COEF/CE:	1	1.075	0.996	SLOPE/COEF/CE:	n/a	n/a	n/a

EXPECTED (REFERENCE) VALUE:							
INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	466.2	3.1	463.1		n/a	n/a	n/a

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

FLOW RATE			CONCENTRATION (ppb)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2
5000	X	5000	0.0	0.0	0.0	0.1	0.1	0.0	n/a	n/a	n/a	X	X	X	X	X	X
4959	40.20	4999	395.6	397.3	1.6	376.1	378.1	1.8	n/a	n/a	n/a	1.052	1.051	X	n/a	n/a	X
4982	18.30	5000	180.1	180.8	0.7	165.8	166.5	0.8	n/a	n/a	n/a	1.087	1.087	X	n/a	n/a	X
4992	9.20	5001	90.5	90.9	0.4	80.9	81.4	0.5	n/a	n/a	n/a	1.120	1.118	X	n/a	n/a	X

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	40.20	5000	0	375.3	377.2	1.9	X	X	X	X
AS-FOUND HIGH	40.20	5000	270	125.0	377.8	253.4	250.3	251.5	0.995	100.48%
ADJUSTED HIGH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MID	40.20	5000	140	244.4	377.9	133.5	130.9	131.6	0.995	100.53%
LOW	40.20	5000	50	330.9	376.6	45.7	44.4	43.8	1.014	98.65%
NO2 adjustment not required.									AVERAGE:	99.89%

LINEAR REGRESSION ANALYSIS:				COMMENTS:
	CORRELATION	SLOPE	INTERCEPT	
NO	1.000	0.954	-0.64%	
NOx	1.000	0.955	-0.64%	
NO2	1.000	1.008	-0.15%	Fails at NO low point.

NOx Calibration by Dilution/Gas-Phase Titration



CALIBRATION:				ANALYZER:			
DATE:	21-Aug-2024	PREVIOUS CALIBRATION DATE:	n/a	MAKE/MODEL:	Thermo 42iQ	PREVIOUS CF.	
CLIENT:	PRAMP	TEMPERATURE (°C):	22.6	SERIAL #:	12409233392	NOx	n/a
LOCATION:	Grimshaw	BAROMETRIC (mBar):	944	FLOW (mL/min)	650	NO	n/a
PURPOSE:	Install/Post-Repair	START TIME (MST):	09:50	RANGE (ppb)	500	NO2	n/a
PERFORMED BY:	Chris Wesson	END TIME (MST):	14:47	GPT FOR O3?	Yes		

CALIBRATION SYSTEM:				FLOWMETERS (if applicable):			
CALIBRATOR:	ZERO AIR:			CALIBRATION GAS:		HIGH ID:	
MAKE:	Sabio	MAKE:	Sabio	CYLINDER ID:	EY0001013	n/a	
MODEL:	2010	MODEL:	2020EXP	NO/NOx (PPM):	49.2 49.4	HIGH EXPIRY:	
ID:	26801218	ID:	18700921	CYLINDER (psi):	900	LOW ID:	
MFC CALIBRATION DATE:	12-Mar-2024	OXIDIZER ID:	n/a	EXPIRY DATE	11-Nov-2029	LOW EXPIRY:	

CALIBRATION SETTINGS:							
INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
BKG/OFFSET:	1.5	1.3	n/a	BKG/OFFSET:	1.4	1.4	n/a
SLOPE/COEF/CE:	1.003	1.05	1	SLOPE/COEF/CE:	1.002	1.228	0.996

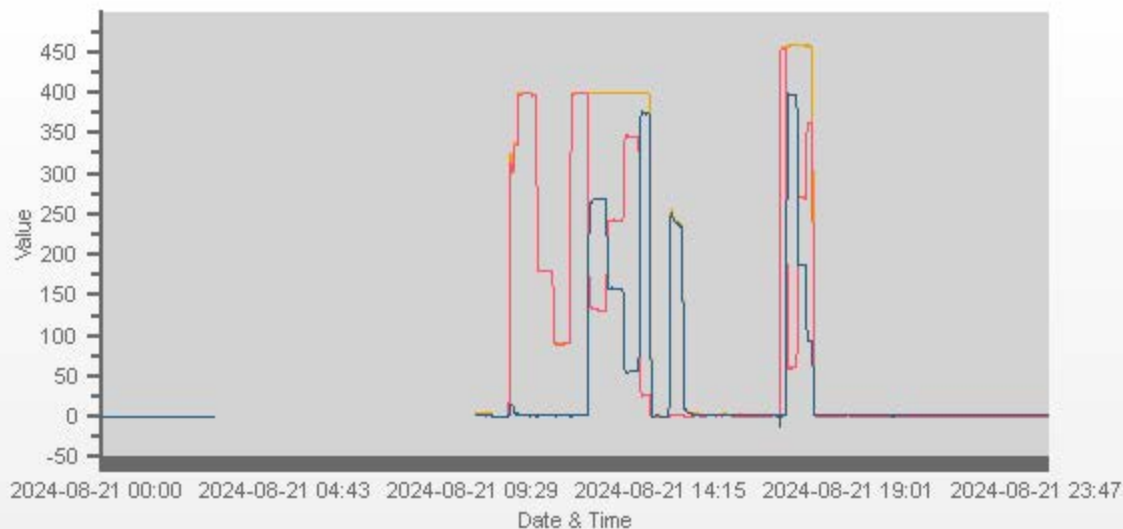
EXPECTED (REFERENCE) VALUE:							
INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	n/a	n/a	n/a		239.0	3.0	236.0

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

FLOW RATE			CONCENTRATION (ppb)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2
5000	X	5000	0.0	0.0	0.0	n/a	n/a	n/a	0.0	0.0	0.0	X	X	X	X	X	X
4959	40.20	4999	395.6	397.3	1.6	n/a	n/a	n/a	395.9	397.3	1.4	n/a	n/a	X	0.999	1.000	X
4982	18.30	5000	180.1	180.8	0.7	n/a	n/a	n/a	178.8	180.0	1.1	n/a	n/a	X	1.007	1.004	X
4992	9.20	5001	90.5	90.9	0.4	n/a	n/a	n/a	89.7	90.3	0.6	n/a	n/a	X	1.009	1.006	X

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	40.20	5000	0	398.3	400.1	1.8				
AS-FOUND HIGH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
ADJUSTED HIGH	40.20	5000	270	130.9	399.7	268.8	267.4	267	1.001	99.85%
MID	40.20	5000	157	242.1	399.4	157.3	156.2	155.5	1.005	99.55%
LOW	40.20	5000	55	344.0	399.3	55.3	54.3	53.5	1.015	98.53%
NO2 COEF/CONVERTER EFFICIENCY ADJUSTED									AVERAGE:	99.31%

LINEAR REGRESSION ANALYSIS:				COMMENTS:
	CORRELATION	SLOPE	INTERCEPT	
NO	1.000	1.001	-0.13%	
NOx	1.000	1.001	-0.08%	
NO2	1.000	1.002	-0.19%	Extra GPT point for O3: Setting = 370, O3 drop = 370.9



CAL-PRAMP-202408-01689

Ozone Calibration by Direct GPT



DATE:	20-Aug-2024	PREVIOUS CALIBRATION DATE:	11-Jul-2024
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.6
LOCATION:	Grimshaw	BAROMETRIC (mBar):	935
PURPOSE:	Removal/Shut-down	START TIME (MST):	16:48
PERFORMED BY:	Chris Wesson	END TIME (MST):	18:38

ANALYZER:

MAKE/MODEL	Teledyne T400	RANGE	500 ppb
SERIAL #	824	FLOW (mL/min)	740
INITIAL		FINAL	
BKG/OFFSET	-1.2	BKG/OFFSET	n/a
COEF/SLOPE	1.106	COEF/SLOPE	n/a
Expected (reference) Value	254.8	Expected (reference) Value	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Sabio
MODEL:	2010	MODEL:	2020EXP
ID:	26801218	ID:	18700921
MFC CALIBRATION DATE:	12-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION METHOD:		Direct GPT	
GPT DATE:	20-Aug-2024	GPT END TIME:	16:48

CALIBRATION PARAMETERS:

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

CALIBRATION:

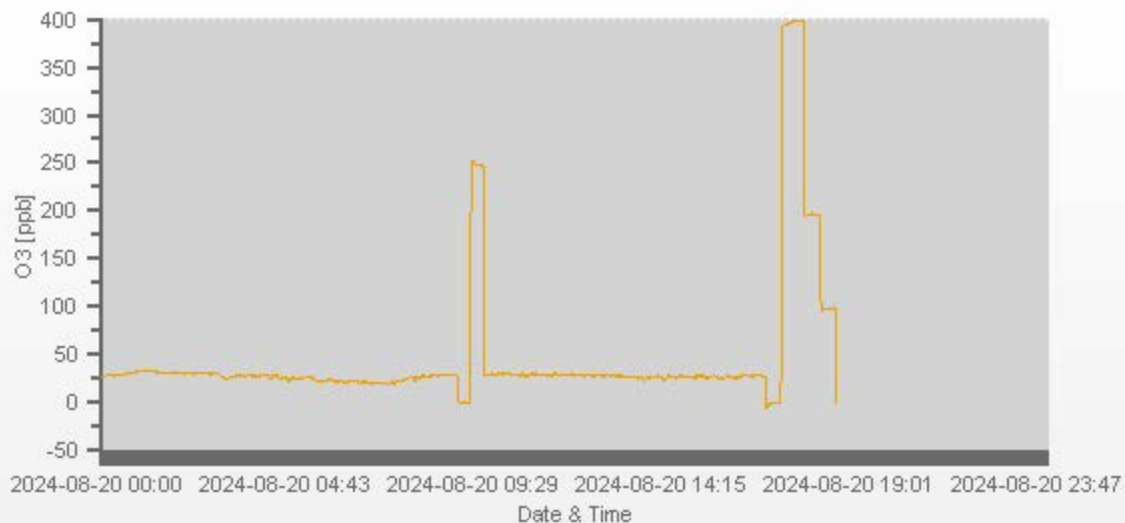
FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
5000	XXXXXX	5000	0.0	0.5	n/a	XXXXXX	XXXXXX
5000	XXXXXX	5000	372.9	399.3	n/a	0.935	n/a
5000	XXXXXX	5000	187.1	197.7	n/a	0.949	n/a
5000	XXXXXX	5000	94.6	98.9	n/a	0.961	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.071	-0.2%

COMMENTS:

No issues



Ozone Calibration by Direct GPT



DATE:	21-Aug-2024	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	22.5
LOCATION:	Grimshaw	BAROMETRIC (mBar):	948
PURPOSE:	Install/Post-Repair	START TIME (MST):	18:05
PERFORMED BY:	Chris Wesson	END TIME (MST):	20:34

ANALYZER:

MAKE/MODEL	Thermo 49iQ	RANGE	500 ppb
SERIAL #	12326230141	FLOW (mL/min)	1230
INITIAL		FINAL	
BKG/OFFSET	5.1	BKG/OFFSET	5.1
COEF/SLOPE	1.001	COEF/SLOPE	1.031
Expected (reference) Value	n/a	Expected (reference) Value	349.4

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Sabio
MODEL:	2010	MODEL:	2020EXP
ID:	26801218	ID:	18700921
MFC CALIBRATION DATE:	12-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION METHOD:		Direct GPT	
GPT DATE:	21-Aug-2024	GPT END TIME:	18:05

CALIBRATION PARAMETERS:

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

CALIBRATION:

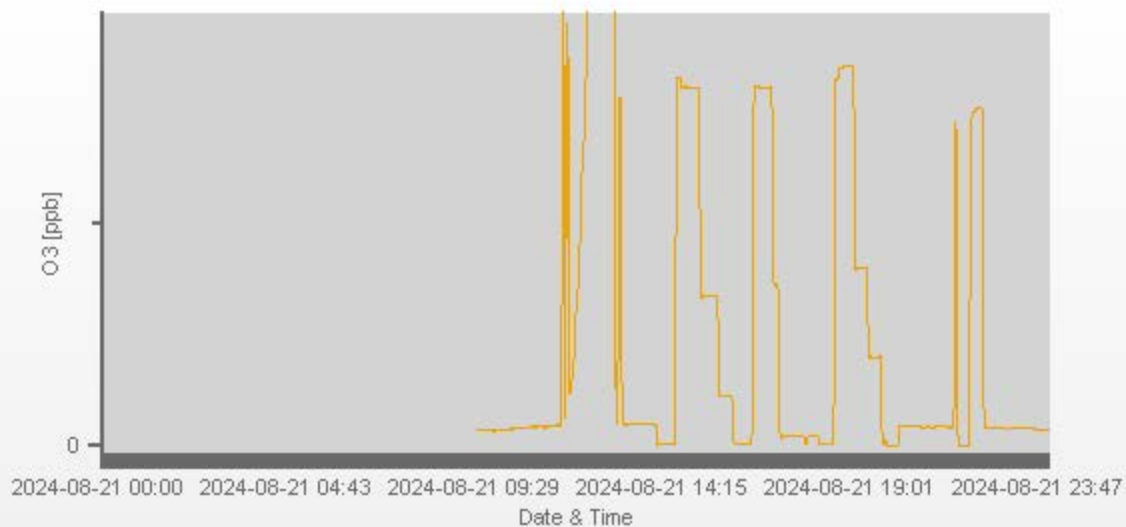
FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
5000	XXXX	5000	0.0	n/a	0.0	XXXX	XXXX
5000	XXXX	5000	392.6	n/a	393.7	n/a	0.997
5000	XXXX	5000	183.8	n/a	183.6	n/a	1.001
5000	XXXX	5000	91.3	n/a	90.8	n/a	1.006

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.003	-0.1%

COMMENTS:

No issues with repeat GPT data.



Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	21-Aug-2024	PREVIOUS CALIBRATION DATE:	10-Jul-2024	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	22.6		Thermo 55i	12101910497	1070
LOCATION:	Grimshaw	BAROMETRIC (mBar):	944	PARAMETER:	CH4	NMHC	THC
PURPOSE:	Routine	START TIME (MST):	09:50	RANGE (ppm):	20	20	40
PERFORMED BY:	Chris Wesson	END TIME (MST):	13:52	PREVIOUS CF:	0.999	0.998	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Sabio	CYLINDER ID:	LL68768	HIGH ID:	n/a
MODEL:	2010	MODEL:	2020EXP	CH ₄ /C ₃ H ₈ (ppm):	897.0 301.0	HIGH EXPIRY:	n/a
ID:	75401122	ID:	18700921	CYLINDER (psi):	800	LOW ID:	n/a
MFC CALIBRATION DATE:	11-Mar-2024	OXIDIZER ID:	115	EXPIRY DATE	08-Nov-2029	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	827.75	Use Zero Chrom?	No
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1724.75	New Zero Chrom?	n/a

EXPECTED (REFERENCE) VALUE:

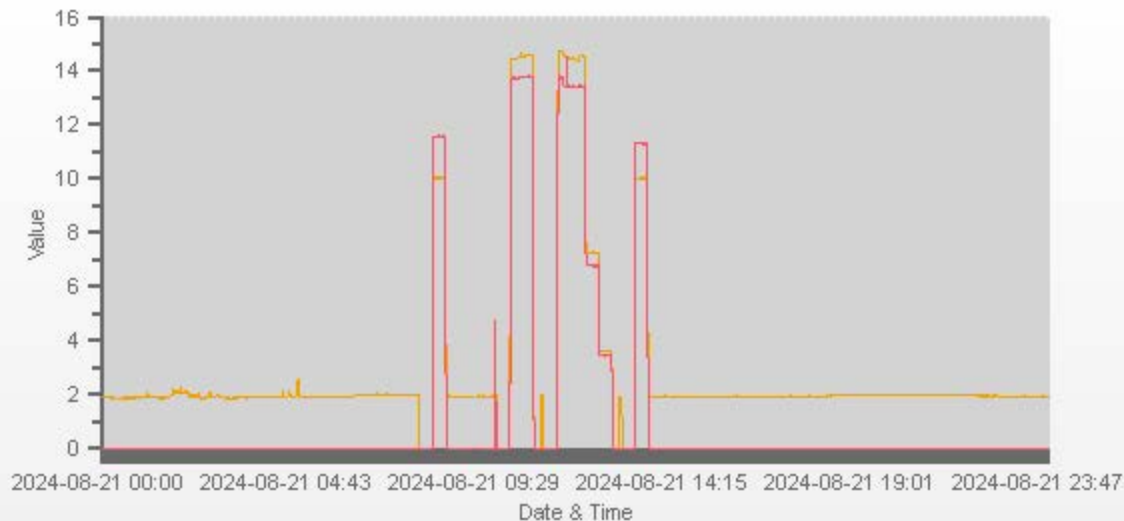
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	10.27	11.49	21.76		10.03	11.30	21.35

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3250	X	3250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
3197	52.80	3250	14.57	13.45	28.02	14.59	13.79	28.38	14.56	13.43	28.00	0.999	0.975	0.987	1.001	1.001	1.001
3223	26.40	3249	7.29	6.73	14.01	n/a	n/a	n/a	7.27	6.75	14.02	n/a	n/a	n/a	1.003	0.996	1.000
3236	13.20	3249	3.64	3.36	7.01	n/a	n/a	n/a	3.65	3.49	7.14	n/a	n/a	n/a	0.998	0.964	0.981

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:
CH ₄	1.000	0.999	0.0%	
NMHC	1.000	0.996	0.3%	
THC	1.000	0.998	0.1%	



CAL-PRAMP-202408-01689



Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	August 23, 2024	July 10, 2024	Weather Conditions:	Mix of sun and clouds	
Company:	PRAMP		Start Time (mst):	7:36	
Station:	Grimshaw		End Time (mst):	8:03	
Parameter:	PM 2.5	Performed By/Reviewer:	Chris Wesson	Limin Li	
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 #201588, Exp Dec 01, 2024			
Digital Manometer:		Deltacal DC1 #201588, Exp Dec 01, 2024			
Temperature:		Deltacal DC1 #201588, Exp Dec 01, 2024			
Pressure:		Deltacal DC1 #201588, Exp Dec 01, 2024			
DIAGNOSTICS:					
Ambient Pressure (mmHg)	701.3	Ambient Temp (°C)	14.2	ASC Heater Duty (%)	51.7
Box Temp (°C)	24.7	Current PMT HV (V)	1541	LED Temp (°C)	34.87
P3 Value	47	PMT Setting (V)	1547	Pump PWM (%)	67
Sample Flow (L/min)	4.90	Sample RH (%RH)	35.3	Sample Temp (°C)	28.3
Item:	As-found		As-left		Tolerance
	Reference	T640x	Reference	T640x	
Zero Test (Leak Check)	PM10	0.0	0	0.0	0.0 to 0.2
	PM2.5	0.0	0	0.0	
Ambient Pressure (mmHg)	701.0	701.4	n/a	n/a	+/- 10 mm Hg
Ambient Temperature (°C)	13.90	14.2	n/a	n/a	+/- 2°C
Sample Flow (L/min)	4.80	5	5.00	4.95	+/-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		100128-050-046		5-10-2025
Item:	Verification:		Calibration (if needed):		Tolerance
	Reference	T640x	Reference	T640x	
Peak Channel	10.9	11	n/a	n/a	± 0.5
PMT Setting (V)	n/a	1547	n/a	n/a	n/a
Peak Channel Counts:	n/a	3247	n/a	n/a	n/a
Comments:					
Alert: 08/22/2024: Perform span dust check. Dust check completed = no issues					

Meteorological System Checklist



Date:	August 21, 2024		
Technician:	Chris Wesson		
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:	July 10, 2024		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	Traceable 20250-21 #230557122 Exp: Aug 17, 2025		
Reference Temperature (°C):	15.8		
Station - Ambient Temperature (°C):	15.2		
Temperature Difference (°C):	0.6		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	July 10, 2024		
Reference Barometer ID:	Brunton ADC #231010, Exp: Oct 10, 2024		
Reference Pressure - Units/Reading:	millibar	946.1	
Station Pressure - Units/Reading:	millibar	946.1	
Pressure Tolerance +/- 15% of error:	804 - 1088	0.00%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	July 10, 2024		
Reference Hygrometer ID:	Traceable 20250-21 #230557122 Exp: Aug 17, 2025		
Reference Hygrometer % RH- Reading:	56.50		
Station Hygrometer % RH- Reading:	59.70		
RH Tolerance +/- 15% of difference:	48.03 - 64.98	-5.7%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	July 10, 2024	Previous check date:	July 10, 2024
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	N
Wind speed on Data Logger (kph):	18.6	Wind Direction on Data Logger:	N
		Wind Direction Pass/Fail?:	Pass
Comments			
No issues			



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Chris Wesson
Audit Location:	Grimshaw	Reviewed By:	Limin Li
Audit Date:	August 2, 2023	Start/End Time (mst):	14:55 / 16:16
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 #:	174801	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	July 12, 2022	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	2	354	2.0	1.0	1.5
30	330	29	333	1.0	-3.0	2.0
60	300	58	300	2.0	0.0	1.0
90	270	88	271	2.0	-1.0	1.5
120	240	119	237	1.0	3.0	2.0
150	210	149	206	1.0	4.0	2.5
180	180	178	177	2.0	3.0	2.5
210	150	206	148	4.0	2.0	3.0
240	120	238	119	2.0	1.0	1.5
270	90	272	87	-2.0	3.0	2.5
300	60	304	57	-4.0	3.0	3.5
330	30	333	30	-3.0	0.0	1.5
355	0	354	1	1.0	1.0	1.0
The audit meets AMD requirements.			Average Absolute Degrees Difference=		2.0	

Comments:

Declination = 15 deg East
Horizontal bearings replaced.
Potentiometer noisy. Replacement required.



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Chris Wesson
Audit Location:	Grimshaw	Reviewed By:	Limin Li
Audit Date:	August 21, 2024	Start/End Time (mst):	15:04 - 16:36
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:	n/a
Sensor Model:	05305AQ	Velocity Unit Output Range:	0-200
Serial #:	174801	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	August 2, 2023	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	55.2	1.003
4000	73.7	73.6	73.6	1.002
5000	92.2	92.0	92.0	1.002
6000	110.6	110.6	110.5	1.000
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	3	354	3.0	1.0	2.0
30	330	30	336	0.0	-6.0	3.0
60	300	59	305	1.0	-5.0	3.0
90	270	90	274	0.0	-4.0	2.0
120	240	119	239	1.0	1.0	1.0
150	210	149	207	1.0	3.0	2.0
180	180	177	178	3.0	2.0	2.5
210	150	206	149	4.0	1.0	2.5
240	120	238	118	2.0	2.0	2.0
270	90	273	90	-3.0	0.0	1.5
300	60	305	60	-5.0	0.0	2.5
330	30	336	31	-6.0	-1.0	3.5
355	0	354	3	1.0	3.0	2.0
The audit meets AMD requirements.				Average Absolute Degrees Difference=		2.3

Comments:

Declination = 15 deg East
Horizontal bearings replaced.
Potentiometer noisy. Replacement required.

END OF REPORT



Peace River Area Monitoring Program

AUGUST 2024

Ambient Air Monitoring Calibration Report

- PEACE RIVER COMPLEX (PRC) STATION-

CAL-PRAMP-202408-01698

Operation and Maintenance:

Bureau Veritas Canada

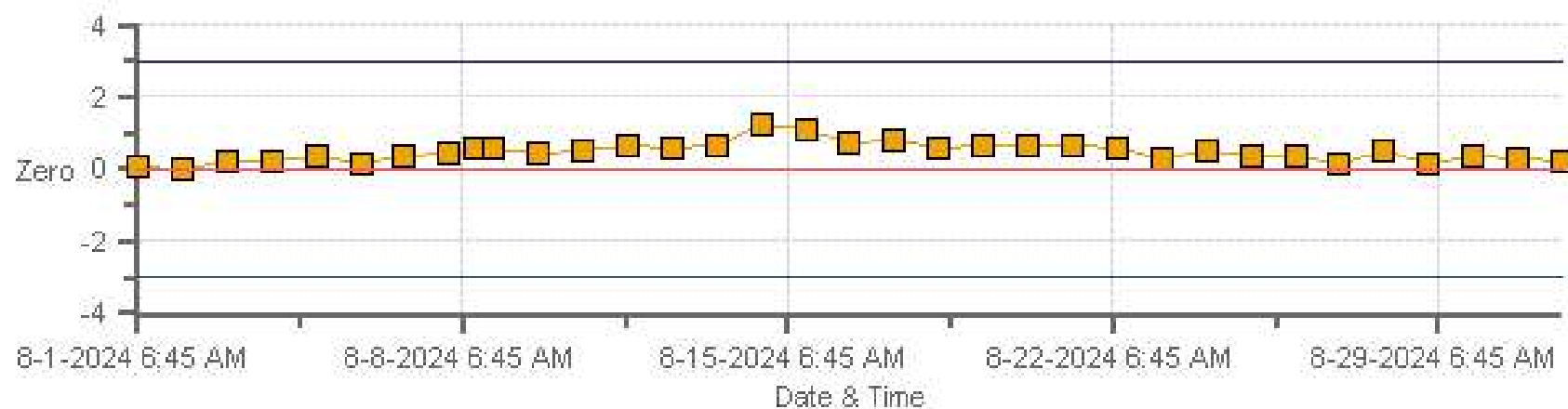
Data Validation and Report:

Bureau Veritas Canada

September 20, 2024

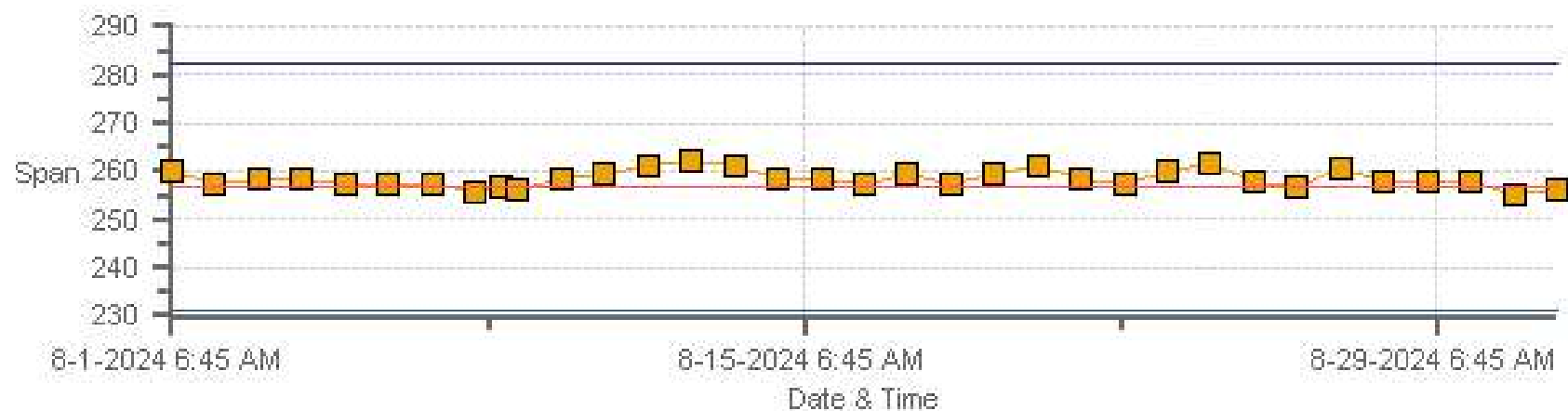
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Zero



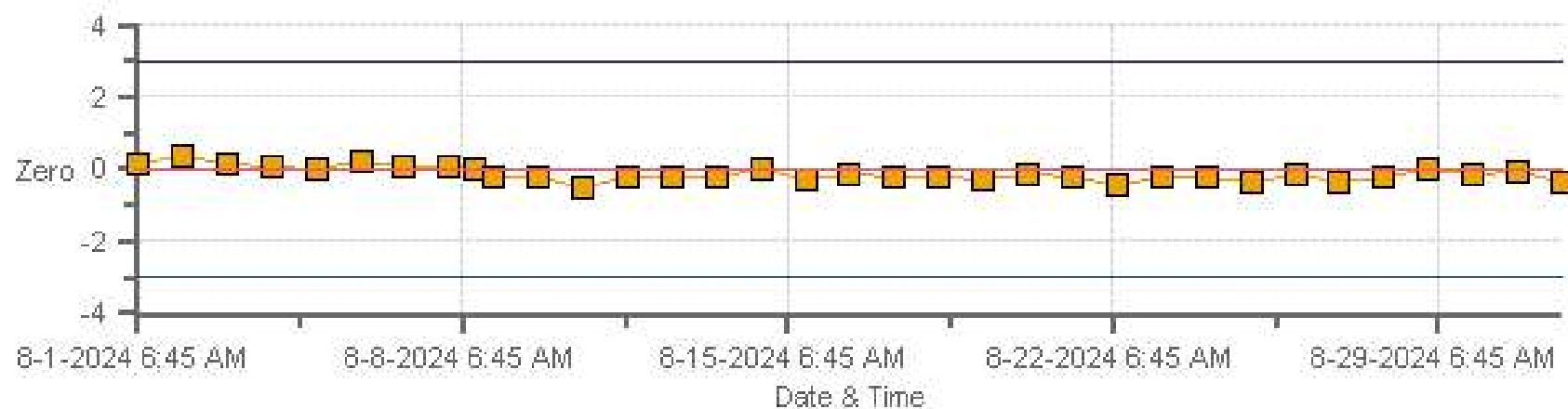
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Span



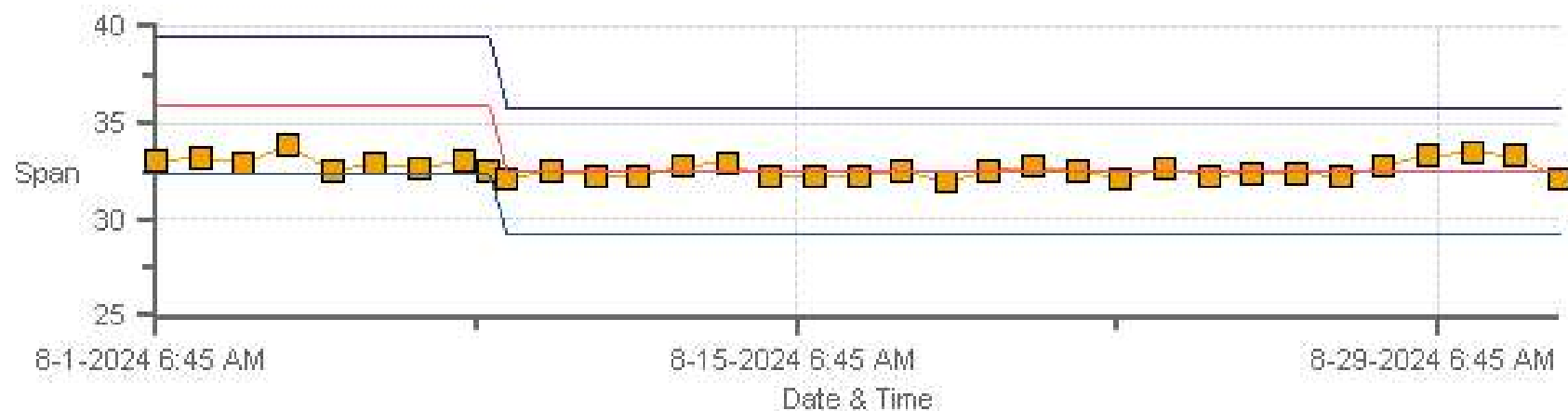
Span Span Ref Span Low Span High

H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Zero



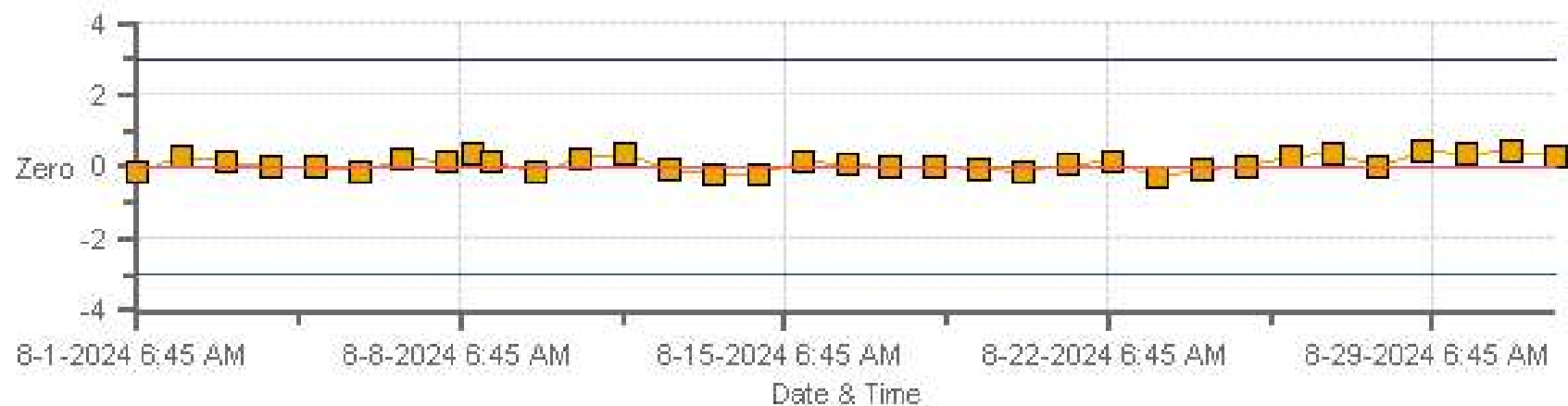
Zero Zero Ref Zero Low Zero High

H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Span



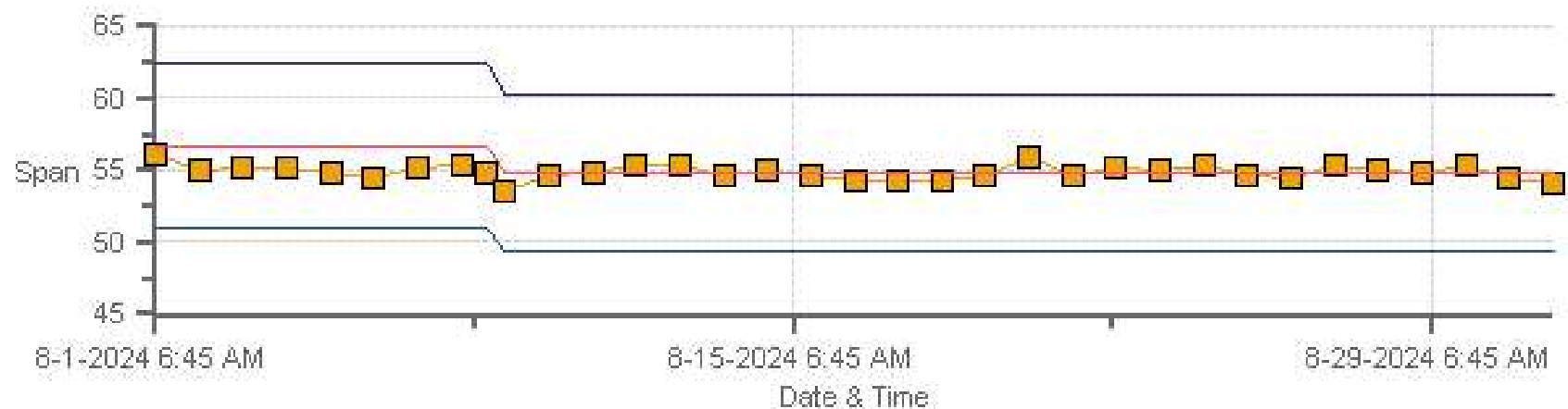
Span SpanRef Span Low Span High

TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Zero



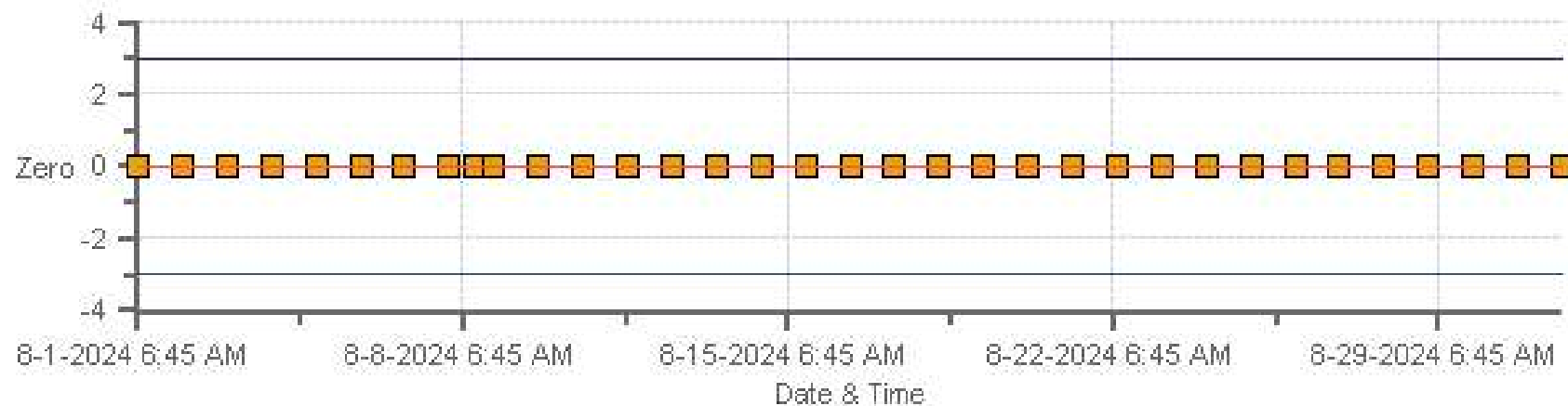
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Span



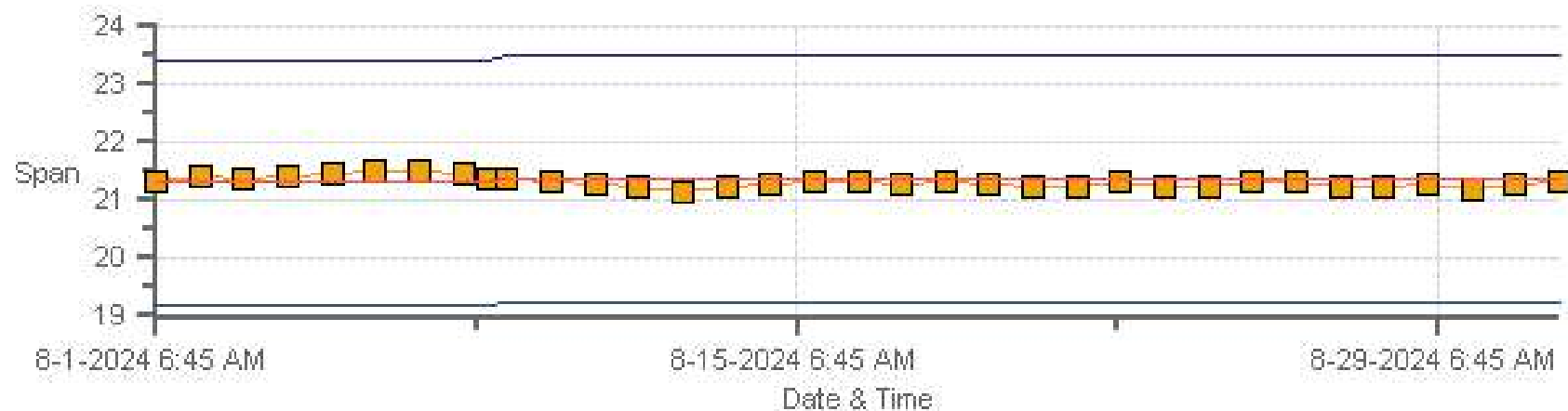
Span SpanRef Span Low Span High

THC55(ppm) Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Zero



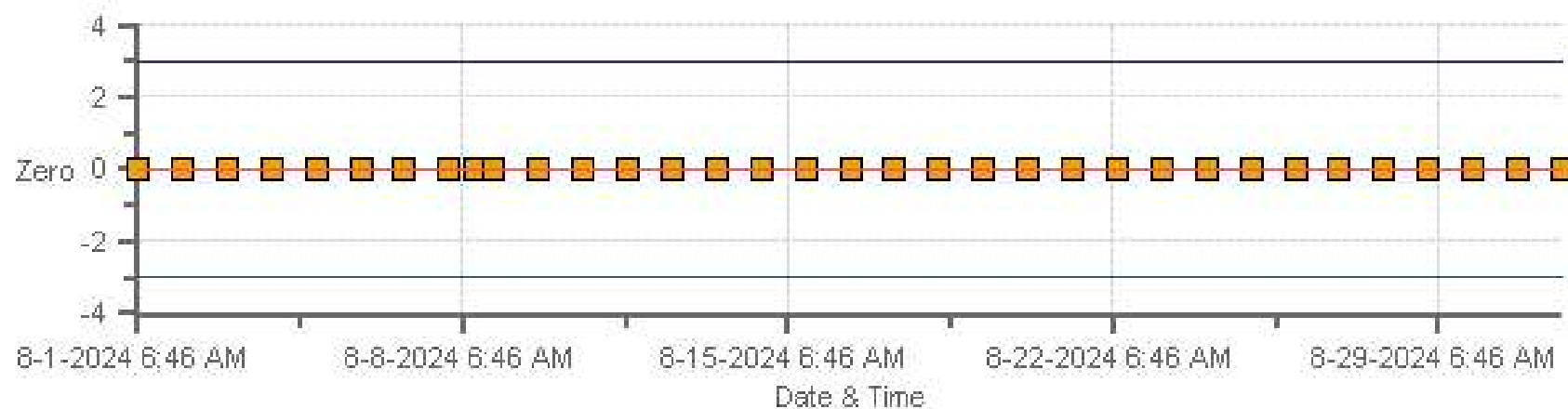
Zero Zero Ref Zero Low Zero High

THC55(ppm) Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Span



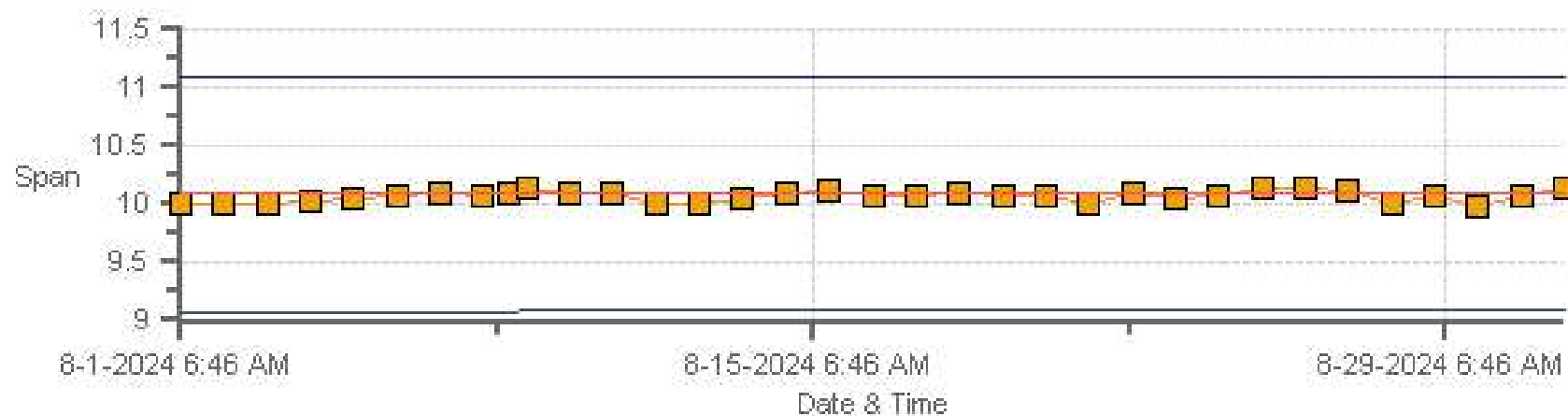
Span Span Ref Span Low Span High

CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Zero



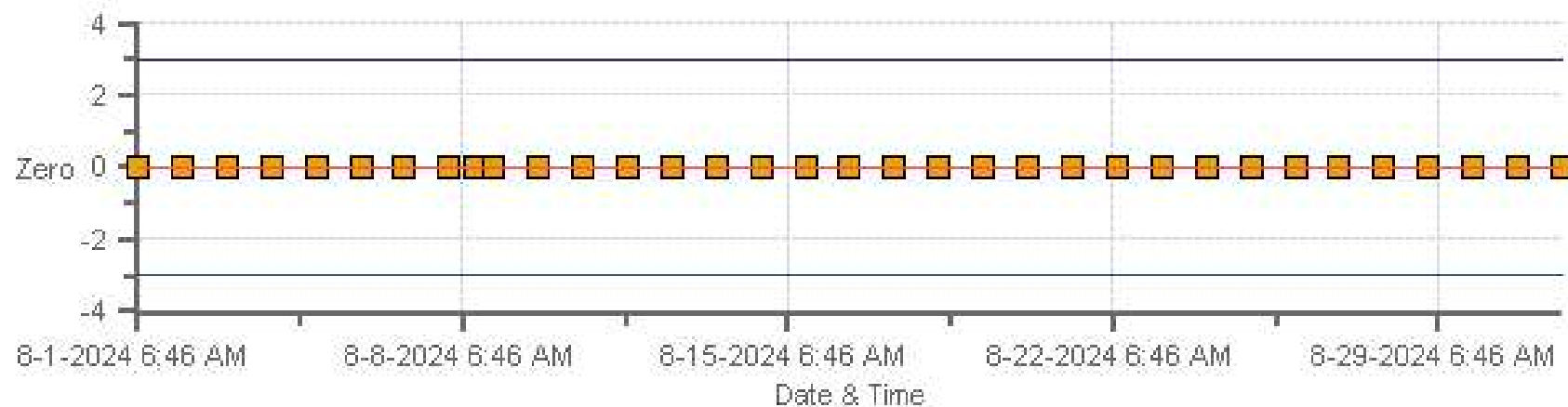
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Span



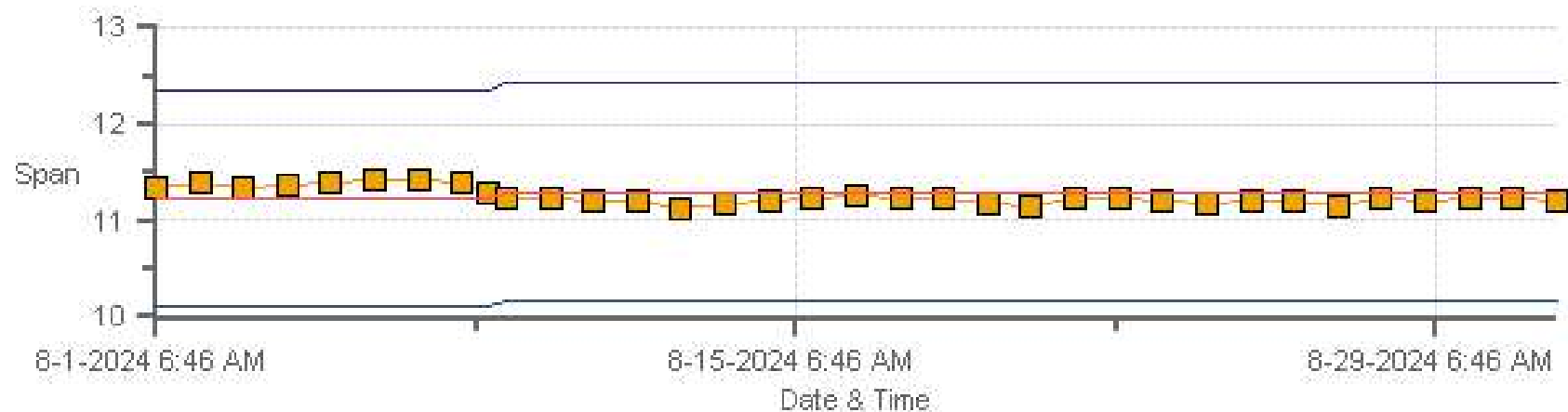
Span SpanRef Span Low Span High

NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 08-2024 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	08-Aug-2024	PREVIOUS CALIBRATION DATE:	17-Jul-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	954
PURPOSE:	Routine	START TIME (MST):	09:26
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:24

ANALYZER:

MAKE/MODEL	Thermo 43i	RANGE	500 ppb
SERIAL #	1034746225	FLOW (mL/min)	444
INITIAL		FINAL	
BKG/OFFSET	19.9	BKG/OFFSET	19.4
COEF/SLOPE	1.129	COEF/SLOPE	1.128
Expected (reference) Value	256.8	Expected (reference) Value	256.6

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL109693	HIGH ID	n/a
CONC (ppm):	25.00	EXPIRY DATE	n/a
CYLINDER (psi):	500	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			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001	60.80	4001	0.00	0.3	0	1.005	1.000
3938	60.80	3999	380.10	378.4	380.2	1.005	1.000
3970	28.80	3999	180.05	n/a	180.5	n/a	0.997
3984	14.40	3998	90.05	n/a	91.4	n/a	0.985

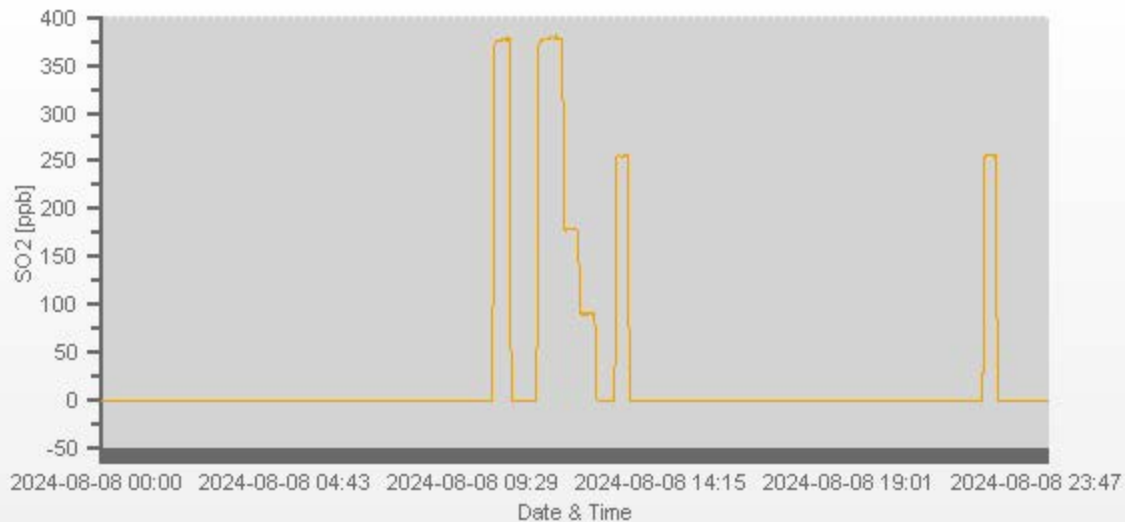
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.995	0.1%

COMMENTS:

Sample Filter Changed

SO2[ppb] Station: Peace River Complex [PRC] Daily: 2024-08-08 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202408-01698

H2S Analyzer Calibration by Dilution



DATE:	08-Aug-2024	PREVIOUS CALIBRATION DATE:	17-Jul-2024
PARAMETER:	H2S	PREVIOUS CORRECTION FACTOR:	0.998
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	954
PURPOSE:	Routine	START TIME (MST):	09:26
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:24

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1308857354	FLOW (mL/min)	936
INITIAL		FINAL	
BKG/OFFSET	16.9	BKG/OFFSET	16.9
COEF/SLOPE	1.12	COEF/SLOPE	1.102
Expected (reference) Value	35.9	Expected (reference) Value	32.5

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	1100	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001	30.90	4001	0.00	0	0	0.996	0.994
3968	30.90	3999	77.96	78.3	78.4	0.996	0.994
3984	15.10	3999	38.10	n/a	38	n/a	1.003
3991	7.50	3998	18.93	n/a	19.1	n/a	0.991

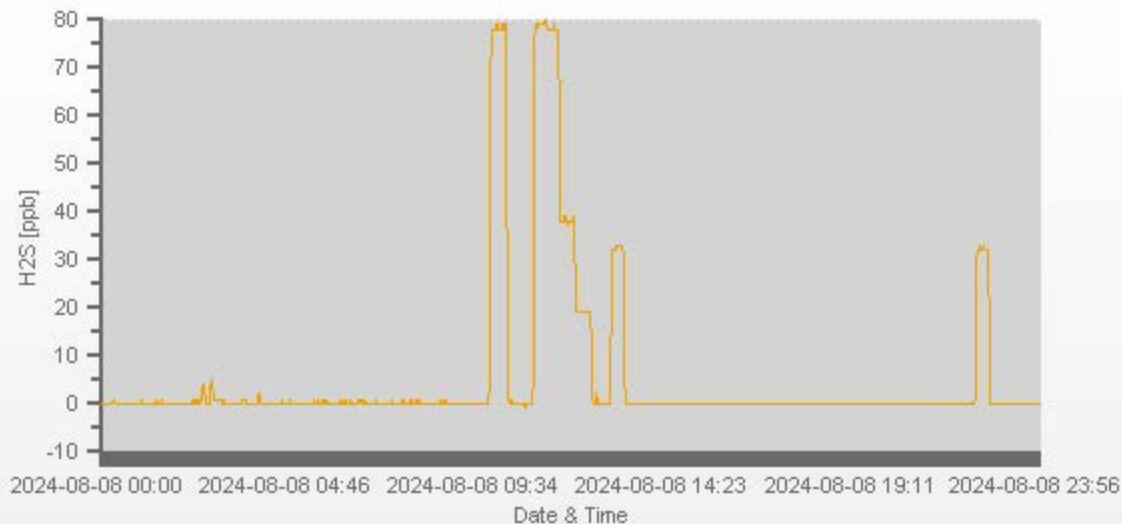
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.004	0.0%

COMMENTS:

Sample filter changed

H2S[ppb] Station: Peace River Complex [PRC] Daily: 2024-08-08 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202408-01698

TRS Analyzer Calibration by Dilution



DATE:	08-Aug-2024	PREVIOUS CALIBRATION DATE:	17-Jul-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	954
PURPOSE:	Routine	START TIME (MST):	09:26
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:24

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1034746224	FLOW (mL/min)	691
INITIAL		FINAL	
BKG/OFFSET	29.5	BKG/OFFSET	29.4
COEF/SLOPE	1.077	COEF/SLOPE	1.072
Expected (reference) Value	56.7	Expected (reference) Value	54.79

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	1100	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001	30.90	4001	0.00	0.6	0	1.007	0.996
3968	30.90	3999	77.96	78.04	78.28	1.007	0.996
3984	15.10	3999	38.10	n/a	38.18	n/a	0.998
3991	7.50	3998	18.93	n/a	19.83	n/a	0.955

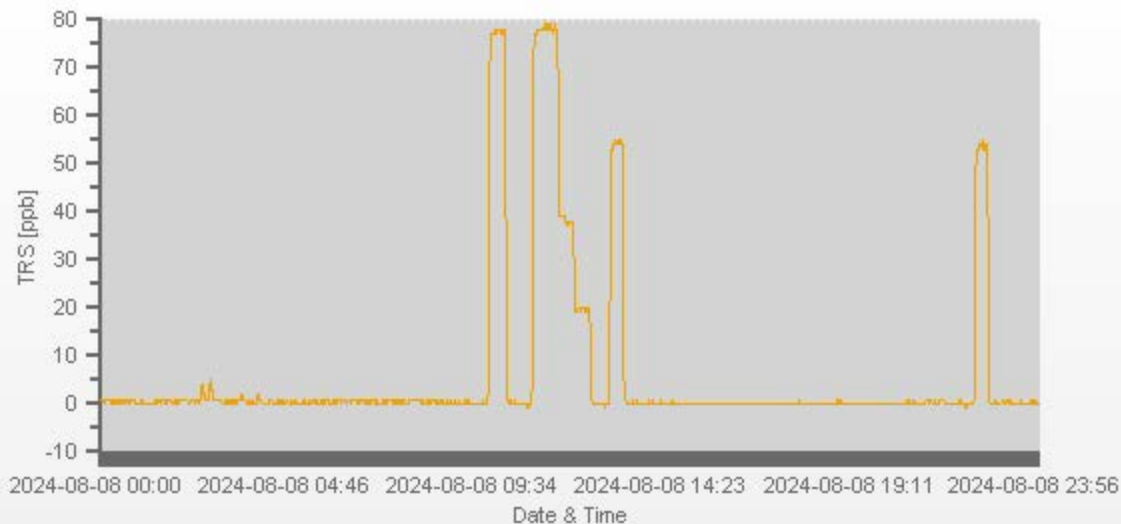
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.993	0.6%

COMMENTS:

TRS Converter CDNOVA CDN-101 #516 Sample filter changed
--

TRS[ppb] Station: Peace River Complex [PRC] Daily: 2024-08-08 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202408-01698

Page 15 of 29
— TRS [ppb]

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	08-Aug-2024	PREVIOUS CALIBRATION DATE:	18-Jul-2024	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3		Thermo 55i	1034745845	1044
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	954	PARAMETER:	CH4	NMHC	THC
PURPOSE	Routine	START TIME (MST):	09:26	RANGE (ppm):	20	20	40
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	12:53	PREVIOUS CF:	0.998	1.001	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	Teledyne	CYLINDER ID:	LL68768	HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	CH ₄ /C ₃ H ₈ (ppm):	897.0 301.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	80	CYLINDER (psi):	800	LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2024	OXIDIZER ID:	n/a	EXPIRY DATE	08-Nov-2024	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	827.75	Use Zero Chrom?	Yes
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1724.75	New Zero Chrom?	No

EXPECTED (REFERENCE) VALUE:

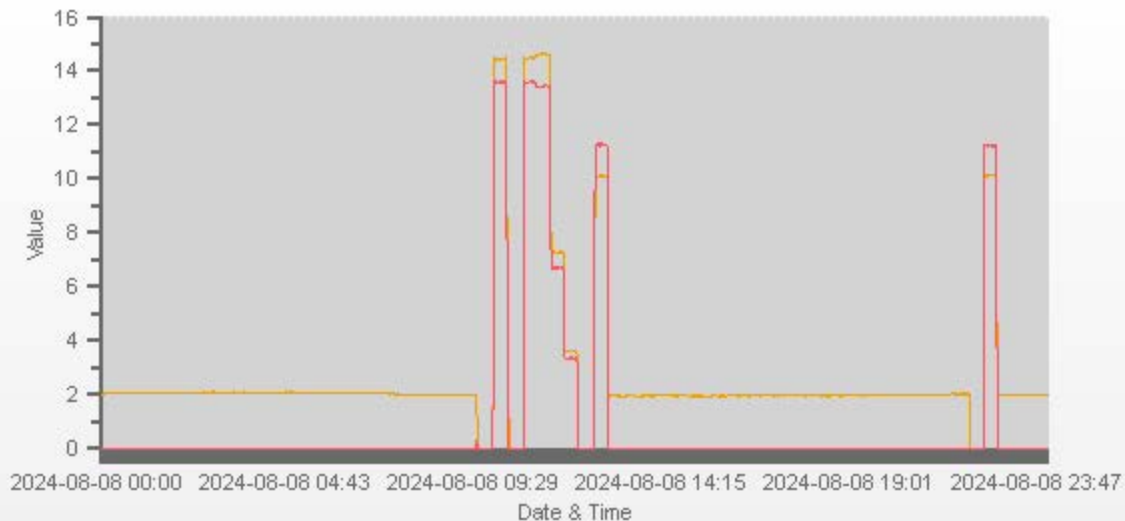
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	10.08	11.22	21.30		10.09	11.29	21.38

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3500	X	3500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
3443	56.80	3500	14.56	13.43	27.99	14.44	13.60	28.04	14.59	13.44	28.03	1.008	0.988	0.998	0.998	0.999	0.999
3472	28.40	3500	7.28	6.72	14.00	n/a	n/a	n/a	7.28	6.73	14.01	n/a	n/a	n/a	1.000	0.998	0.999
3487	14.20	3501	3.64	3.36	7.00	n/a	n/a	n/a	3.65	3.35	7.01	n/a	n/a	n/a	0.997	1.002	0.998

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:
CH ₄	1.000	0.992	0.0%	
NMHC	1.000	1.012	0.0%	
THC	1.000	1.002	0.0%	



CAL-PRAMP-202408-01698

Meteorological System Checklist



Date:	August 8, 2024		
Technician:	Kevin Sebastian		
Station:	Peace River Compliance		
Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 16325
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:	July 17, 2024		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	F.S. 181341226 expires July 17, 2024		
Reference Temperature (°C):	23.8		
Station - Ambient Temperature (°C):	23.5		
Temperature Difference (°C):	0.3		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	July 17, 2024		
Reference Barometer ID:	Brunton 05535 Expires July 17, 2024		
Reference Pressure - Units/Reading:	millibar	949	
Station Pressure - Units/Reading:	millibar	953	
Pressure Tolerance +/- 15% of error:	807 - 1091	-0.42%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	July 17, 2024		
Reference Hygrometer ID:	F.S. 181341226 expires July 17, 2024		
Reference Hygrometer % RH- Reading:	37.80		
Station Hygrometer % RH- Reading:	42.80		
RH Tolerance +/- 15% of difference:	32.13 - 43.47	-13.2%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	July 17, 2024	Previous check date:	July 17, 2024
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	E
Wind speed on Data Logger (kph):	6.9	Wind Direction on Data Logger:	E
		Wind Direction Pass/Fail?:	Pass
Comments			
No issues.			



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Chris Wesson
Audit Location:	PRC Compliance	Reviewed By:	Limin Li
Audit Date:	August 3, 2023	Start/End Time (mst):	10:40 / 11:32
Calibration Purpose:	routine annual	Weather Conditions:	Mainly cloudy with drizzle

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:	August 17, 2022	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	0.1	0.1	-
1000	18.4	18.6	18.5	0.994
2000	36.9	37.1	37.0	0.995
3000	55.3	55.5	55.4	0.997
4000	73.7	74.0	73.8	0.998
5000	92.2	92.5	92.4	0.997
6000	110.6	111.0	111.0	0.996
7000	129.0	129.6	129.6	0.995
8000	147.4	148.0	148.3	0.995
9000	165.9	166.7	166.6	0.995
10000	184.3	185.3	185.3	0.995
The audit meets AMD requirements.			Average Correction Factor=	0.996

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	352	0.0	3.0	1.5
30	330	31	328	-1.0	2.0	1.5
60	300	59	298	1.0	2.0	1.5
90	270	90	270	0.0	0.0	0.0
120	240	120	240	0.0	0.0	0.0
150	210	151	210	-1.0	0.0	0.5
180	180	180	180	0.0	0.0	0.0
210	150	211	150	-1.0	0.0	0.5
240	120	241	120	-1.0	0.0	0.5
270	90	271	91	-1.0	-1.0	1.0
300	60	299	59	1.0	1.0	1.0
330	30	328	29	2.0	1.0	1.5
355	0	353	1	2.0	1.0	1.5
The audit meets AMD requirements.			Average Absolute Degrees Difference=		0.8	

Comments:

Declination = 15 deg East
Physical inspection completed, bearings replaced

END OF REPORT

List of SOPs

MONITOR	SOP
SULPHUR DIOXIDE (SO ₂)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
HYDROGEN SULPHIDE (H ₂ S)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
TOTAL REDUCED SULPHUR (TRS)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
TOTAL HYDROCARBONS (THC), METHANE (CH ₄), NON-METHANE(NMHC)	Bureau Veritas EMS SOP-00001: Methane, Non-Methane Hydrocarbon Analyzer Monitoring
OXIDES OF NITROGEN (NO _x), NITRIC OXIDE (NO) & NITROGEN DIOXIDE (NO ₂)	Bureau Veritas EMS SOP-00213: Ambient NO/NO ₂ /NO _x Monitoring
OZONE (O ₃)	Bureau Veritas EMS SOP-00212: Ambient O ₃ Monitoring
PARTICULATE MATTER < 2.5 MICRONS (PM _{2.5})	Bureau Veritas EMS SOP-00015: Teledyne API PM Monitor Model T640
WIND SPEED (WS) & WIND DIRECTION (WD)	Bureau Veritas EMS SOP-00013: RM Young Wind Monitor Calibration



Peace River Area Monitoring Program

AUGUST 2024

Monthly Ambient Air Quality Monitoring Integrated Sampling Report

PRAMP-202408-INTEGRATED

September 23, 2024

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Peace River Area Monitoring Program
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E-mail: pramptech@prampairshed.ca
www.prampairshed.ca

September 23, 2024

Alberta Environment and Protected Areas (EPA)
11th Floor, Oxbridge Place
9820 106 Street
Edmonton, AB, T5K 2J6

RE: PRAMP –August 2024 Monthly Ambient Air Quality Monitoring Integrated Sampling Report

Enclosed is the August 2024 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

- 986-C Station
- 842-B Station
- Reno-B Station
- Peace River Complex (PRC) Station

Station Name	986-C	842-B	Reno-B	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)	√	√	√	
Passives: 2-Month exposure (PACs)	√			
Passives: 1-Month Exposure (H ₂ S, SO ₂)				√

Listing of Passives: 1-Month Exposure 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
Passives: PACs	PRAMP	ECCC	EPA	EPA
Passives: H ₂ S, SO ₂	PRAMP	Bureau Veritas	PRAMP	PRAMP

Monitoring Notes during the Month of August 2024

- **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.
- Two canister event was recorded this month.

Station	Date	Time of Concentration Reached Trigger Point	NMHC 5-minute Concentration (ppm)	Time of Canister Triggered
Reno-B	13-Aug	19:45	0.32	19:50
986-C	14-Aug	00:35	0.32	00:40

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable, except Acrolein and Benzene.

	Date	Acrolein	Benzene	DINC #
AAAQOs (ppb)		1.9	9.0	
Reno-B	2024-08-13	3.7	-	0011197
986-C	2024-08-14	2.4	9.45	0011198

- **Passive Polycyclic Aromatic Compounds (PACs) Sampling Program**

- The PAC sampling program began in November 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. They are scheduled to be removed on September 3.
- The sample media for sampling period of September and October were installed on September 3. They are scheduled to be removed by the end of October.

- **Passives H₂S and SO₂ 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 August 1 and were removed on August 30.

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).

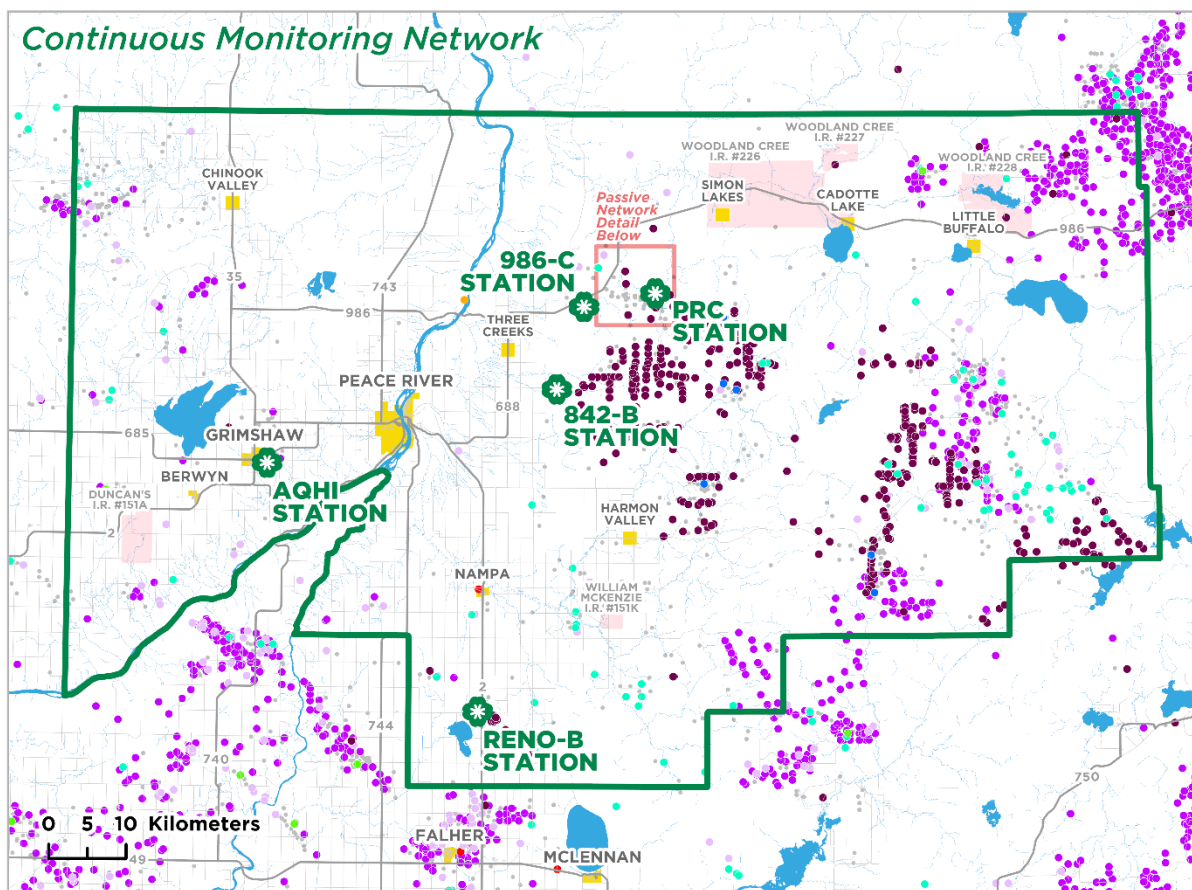
I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements. I also certify that at the time of this report's submission, all air data have been electronically uploaded to Alberta ETS as required by the AMD.



Michael Bisaga, Technical Program Manager, PRAMP Airshed

September 23, 2024

Map of PRAMP Continuous Monitoring and Integrated Sampling Network



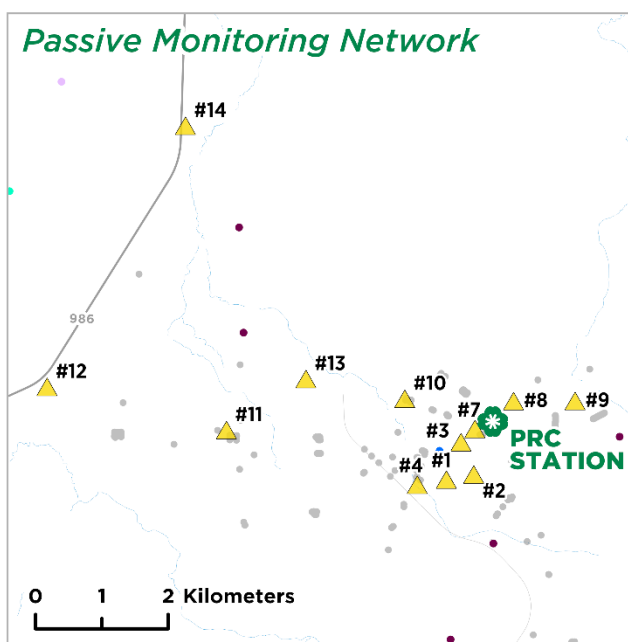
Legend

- PRAMP Boundary
- Populated Place
- First Nation
- * Continuous Monitoring Station
- ▲ Passive Monitoring Station

Industrial Facilities

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

Service Layer Credit: Esri, CGIAR, USGS, Esri, USGS



INTEGRATED SAMPLING RESULTS SUMMARY

- NMHC analytical results

- Reno-B Station

Sample Date/Time	2024-08-13 @19:50							
Canister Sample	Non-methane Hydrocarbon							
Canister ID	28916							
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	2.5	Methane	Maximum Reading (ppmv)	1.3	Carbonyl sulphide	Maximum Reading (ppmv)	25.7	Acetone

Sample Date/Time	2024-08-13 @19:50							
Canister Sample	Non-methane Hydrocarbon - BLANK							
Canister ID	28933							
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-

- 986-C Station

Sample Date/Time	2024-08-14 @00:35							
Canister Sample	Non-methane Hydrocarbon							
Canister ID	28939							
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	2.9	Methane	Maximum Reading (ppmv)	1.9	Carbonyl sulphide	Maximum Reading (ppmv)	21.1	Acetone

Sample Date/Time	2024-08-14 @00:35							
Canister Sample	Non-methane Hydrocarbon - BLANK							
Canister ID	28951							
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-

- **Passive analytical results**

	H₂S		SO₂	
Minimum (ppb)	0.20	#14	0.2	#14
Maximum (ppb)	1.33	#4	0.5	#2
Average (ppb)	0.56	-	0.38	-

ANALYTICAL SAMPLING RESULTS

NMHC Canisters – VOCs

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - August 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID	2024-08-13 @19:50 Non-methane Hydrocarbon 28916								
Method	NA-025		Method	NA-024		Method	AC-058		
Maximum Reading (ppmv)	2.5	Methane	Maximum Reading (ppmv)	1.3	Carbonyl sulphide	Maximum Reading (ppmv)	25.7	Acetone	
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	AAQOs (ppt)	Result (ppbv)	RDL (ppbv)
1-Butene	< 0.10	0.1	2,5-Dimethylthiophene	< 0.3	0.3	1,1,1-Trichloroethane		< 0.02	0.02
Acetylene	< 0.08	0.08	2-Ethylthiophene	< 0.2	0.2	1,1,2,2-Tetrachloroethane		< 0.02	0.02
cis-2-Butene	< 0.04	0.04	2-Methylthiophene	< 0.2	0.2	1,1,2-Trichloroethane		< 0.02	0.02
Ethane	< 0.1	0.1	3-Methylthiophene	< 0.3	0.3	1,1-Dichloroethane		< 0.02	0.02
Ethylacetylene	< 0.06	0.06	Butyl mercaptan	< 0.3	0.3	1,1-Dichloroethylene		< 0.02	0.02
Ethylene	< 0.07	0.07	Carbon disulphide	0.3	0.2	1,2,3-Trimethylbenzene		0.05	0.05
Isobutane	< 0.1	0.1	Carbonyl sulphide	1.3	0.3	1,2,4-Trichlorobenzene		< 0.3	0.3
Isobutylene	< 0.1	0.1	Dimethyl disulphide	< 0.2	0.2	1,2,4-Trimethylbenzene		0.11	0.03
Methane	2.5	0.1	Dimethyl sulphide	0.3	0.2	1,2-Dibromoethane		< 0.02	0.02
n-Butane	< 0.2	0.2	Ethyl mercaptan	< 0.3	0.3	1,2-Dichlorobenzene		< 0.03	0.03
n-Propane	< 0.07	0.07	Ethyl sulphide	< 0.3	0.3	1,2-Dichloroethane		< 0.03	0.03
Propylene	< 0.1	0.1	Hydrogen sulphide	< 0.1	0.1	1,2-Dichloropropane		< 0.03	0.03
Propyne	< 0.1	0.1	Isobutyl mercaptan	< 0.3	0.3	1,3,5-Trimethylbenzene		< 0.03	0.03
trans-2-Butene	< 0.09	0.09	Isopropyl mercaptan	< 0.1	0.1	1,3-Butadiene		0.75	0.03
			Methyl mercaptan	< 0.2	0.2	1,3-Dichlorobenzene		< 0.4	0.4
			Pentyl mercaptan	< 0.4	0.4	1,4-Dichlorobenzene		< 0.4	0.4
			Propyl mercaptan	< 0.4	0.4	1,4-Dioxane		< 0.5	0.5
			tert-Butyl mercaptan	< 0.3	0.3	1-Butene/Isobutylene		2.64	0.06
			Thiophene	< 0.2	0.2	1-Hexene/2-Methyl-1-pentene		0.37	0.07
						1-Pentene		0.53	0.03
						2,2,4-Trimethylpentane		< 0.02	0.02
						2,2-Dimethylbutane		< 0.02	0.02
						2,3,4-Trimethylpentane		< 0.02	0.02
						2,3-Dimethylbutane		< 0.09	0.09
						2,3-Dimethylpentane		0.04	0.02
						2,4-Dimethylpentane		< 0.03	0.03
						2-Methylheptane		< 0.02	0.02
						2-Methylhexane		< 0.03	0.03
						2-Methylpentane		0.14	0.02
						3-Methylheptane		< 0.03	0.03
						3-Methylhexane		0.02	0.02
						3-Methylpentane		< 0.02	0.02
						Acetone	2400	25.7	0.4
						Acrolein	1.9	3.7	0.3
						Benzene	9.0	8.52	0.03
						Benzyl chloride		< 0.3	0.3
						Bromodichloromethane		< 0.03	0.03
						Bromoform		< 0.02	0.02
						Bromomethane		0.05	0.02
						Carbon disulfide	10	0.23	0.02
						Carbon tetrachloride		0.09	0.02
						Chlorobenzene		< 0.02	0.02
						Chloroethane		< 0.02	0.02
						Chloroform		< 0.02	0.02
						Chloromethane		1.16	0.04
						cis-1,2-Dichloroethene		< 0.02	0.02
						cis-1,3-Dichloropropene		< 0.03	0.03
						cis-2-Butene		< 0.03	0.03
						cis-2-Pentene		< 0.02	0.02
						Cyclohexane		< 0.04	0.04
						Cyclopentane		< 0.02	0.02
						Dibromochloromethane		< 0.02	0.02
						Ethanol		3.3	0.5
						Ethyl acetate		< 0.3	0.3
						Ethylbenzene	460	0.32	0.03
						Freon-11		0.32	0.02
						Freon-113		0.08	0.02
						Freon-114		< 0.03	0.03

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - August 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID			2024-08-13 @19:50 Non-methane Hydrocarbon 28916									
Method			NA-025		Method		NA-024		Method		AC-058	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)			2.5		Methane		Maximum Reading (ppmv)		1.3		Carbonyl sulphide	
Maximum Reading (ppmv)												

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - August 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time	2024-08-13 @19:50									
Canister Sample	Non-methane Hydrocarbon - BLANK									
Canister ID	28933									
Method	NA-025		Method	NA-024		Method	AC-058			
Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	-	-
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	AAAOQs (ppt)	Result (ppbv)	RDL (ppbv)	
1-Butene	< 0.10	0.1	2,5-Dimethylthiophene	< 0.3	0.3	1,1,1-Trichloroethane		< 0.02	0.02	
Acetylene	< 0.08	0.08	2-Ethylthiophene	< 0.2	0.2	1,1,2,2-Tetrachloroethane		< 0.02	0.02	
cis-2-Butene	< 0.04	0.04	2-Methylthiophene	< 0.2	0.2	1,1,2-Trichloroethane		< 0.02	0.02	
Ethane	< 0.1	0.1	3-Methylthiophene	< 0.3	0.3	1,1-Dichloroethane		< 0.02	0.02	
Ethylacetylene	< 0.06	0.06	Butyl mercaptan	< 0.3	0.3	1,1-Dichloroethylene		< 0.02	0.02	
Ethylene	< 0.07	0.07	Carbon disulphide	< 0.2	0.2	1,2,3-Trimethylbenzene		< 0.05	0.05	
Isobutane	< 0.1	0.1	Carbonyl sulphide	< 0.3	0.3	1,2,4-Trichlorobenzene		< 0.3	0.3	
Isobutylene	< 0.1	0.1	Dimethyl disulphide	< 0.2	0.2	1,2,4-Trimethylbenzene		< 0.03	0.03	
Methane	< 0.1	0.1	Dimethyl sulphide	< 0.2	0.2	1,2-Dibromoethane		< 0.02	0.02	
n-Butane	< 0.2	0.2	Ethyl mercaptan	< 0.3	0.3	1,2-Dichlorobenzene		< 0.03	0.03	
n-Propane	< 0.07	0.07	Ethyl sulphide	< 0.3	0.3	1,2-Dichloroethane		< 0.03	0.03	
Propylene	< 0.1	0.1	Hydrogen sulphide	< 0.1	0.1	1,2-Dichloropropane		< 0.03	0.03	
Propyne	< 0.1	0.1	Isobutyl mercaptan	< 0.3	0.3	1,3,5-Trimethylbenzene		< 0.03	0.03	
trans-2-Butene	< 0.09	0.09	Isopropyl mercaptan	< 0.1	0.1	1,3-Butadiene		< 0.03	0.03	
			Methyl mercaptan	< 0.2	0.2	1,3-Dichlorobenzene		< 0.4	0.4	
			Pentyl mercaptan	< 0.4	0.4	1,4-Dichlorobenzene		< 0.4	0.4	
			Propyl mercaptan	< 0.4	0.4	1,4-Dioxane		< 0.5	0.5	
			tert-Butyl mercaptan	< 0.3	0.3	1-Butene/Isobutylene		< 0.06	0.06	
			Thiophene	< 0.2	0.2	1-Hexene/2-Methyl-1-pentene		< 0.07	0.07	
						1-Pentene		< 0.03	0.03	
						2,2,4-Trimethylpentane		< 0.02	0.02	
						2,2-Dimethylbutane		< 0.02	0.02	
						2,3,4-Trimethylpentane		< 0.02	0.02	
						2,3-Dimethylbutane		< 0.09	0.09	
						2,3-Dimethylpentane		< 0.02	0.02	
						2,4-Dimethylpentane		< 0.03	0.03	
						2-Methylheptane		< 0.02	0.02	
						2-Methylhexane		< 0.03	0.03	
						2-Methylpentane		< 0.02	0.02	
						3-Methylheptane		< 0.03	0.03	
						3-Methylhexane		< 0.02	0.02	
						3-Methylpentane		< 0.02	0.02	
						Acetone	2400	< 0.4	0.4	
						Acrolein	1.9	< 0.3	0.3	
						Benzene	9.0	< 0.03	0.03	
						Benzyl chloride		< 0.3	0.3	
						Bromodichloromethane		< 0.03	0.03	
						Bromoform		< 0.02	0.02	
						Bromomethane		< 0.02	0.02	
						Carbon disulfide	10	< 0.02	0.02	
						Carbon tetrachloride		< 0.02	0.02	
						Chlorobenzene		< 0.02	0.02	
						Chloroethane		< 0.02	0.02	
						Chloroform		< 0.02	0.02	
						Chloromethane		< 0.04	0.04	
						cis-1,2-Dichloroethene		< 0.02	0.02	
						cis-1,3-Dichloropropene		< 0.03	0.03	
						cis-2-Butene		< 0.03	0.03	
						cis-2-Pentene		< 0.02	0.02	
						Cyclohexane		< 0.04	0.04	
						Cyclopentane		< 0.02	0.02	
						Dibromochloromethane		< 0.02	0.02	
						Ethanol		< 0.5	0.5	
						Ethyl acetate		< 0.3	0.3	
						Ethylbenzene	460	< 0.03	0.03	
						Freon-11		< 0.02	0.02	
						Freon-113		< 0.02	0.02	
						Freon-114		< 0.03	0.03	

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - August 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID	2024-08-13 @19:50 Non-methane Hydrocarbon - BLANK 28933								
Method	NA-025		Method	NA-024		Method	AC-058		
Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	AAAOs (ppt)	Result (ppbv)	RDL (ppbv)
						Freon-12		< 0.03	0.03
						Hexachloro-1,3-butadiene		< 0.3	0.30
						Isobutane		< 0.03	0.03
						Isopentane		< 0.04	0.04
						Isoprene		< 0.02	0.02
						Isopropyl alcohol		< 0.3	0.3
						Isopropylbenzene		< 0.04	0.04
						m,p-Xylene		< 0.04	0.04
						m-Diethylbenzene		< 0.02	0.02
						m-Ethyltoluene		< 0.03	0.03
						Methyl butyl ketone		< 0.4	0.40
						Methyl ethyl ketone		< 0.3	0.3
						Methyl isobutyl ketone		< 0.3	0.3
						Methyl methacrylate		< 0.08	0.08
						Methyl tert butyl ether		< 0.03	0.03
						Methylcyclohexane		< 0.02	0.02
						Methylcyclopentane		< 0.05	0.05
						Methylene chloride		< 0.3	0.3
						n-Butane		< 0.02	0.02
						n-Decane		< 0.06	0.06
						n-Dodecane		< 0.3	0.3
						n-Heptane		< 0.04	0.04
						n-Hexane	5960	< 0.03	0.03
						n-Nonane		< 0.04	0.04
						n-Octane		< 0.02	0.02
						n-Pentane		< 0.04	0.0
						n-Propylbenzene		< 0.06	0.06
						n-Undecane		< 0.5	0.5
						Naphthalene		< 0.3	0.3
						o-Ethyltoluene		< 0.02	0.02
						o-Xylene		< 0.03	0.03
						p-Diethylbenzene		< 0.02	0.02
						p-Ethyltoluene		< 0.04	0.04
						Styrene	52.0	< 0.04	0.04
						Tetrachloroethylene		< 0.02	0.02
						Tetrahydrofuran		< 0.3	0.3
						Toluene	499	< 0.03	0.03
						trans-1,2-Dichloroethylene		< 0.06	0.06
						trans-1,3-Dichloropropylene		< 0.02	0.02
						trans-2-Butene		< 0.03	0.03
						trans-2-Pentene		< 0.02	0.02
						Trichloroethylene		< 0.02	0.02
						Vinyl acetate		< 0.3	0.3
						Vinyl chloride	51	< 0.02	0.02

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - August 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID	2024-08-14 @00:35 Non-methane Hydrocarbon 28939							
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	2.9	Methane	Maximum Reading (ppmv)	1.9	Carbonyl sulphide	Maximum Reading (ppmv)	21.1	Acetone
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	AAQOs (ppt)	Result (ppbv) RDL (ppbv)
1-Butene	< 0.10	0.1	2,5-Dimethylthiophene	< 0.3	0.3	1,1,1-Trichloroethane		< 0.02 0.02
Acetylene	< 0.08	0.08	2-Ethylthiophene	< 0.2	0.2	1,1,2,2-Tetrachloroethane		< 0.02 0.02
cis-2-Butene	< 0.04	0.04	2-Methylthiophene	< 0.2	0.2	1,1,2-Trichloroethane		< 0.02 0.02
Ethane	< 0.1	0.1	3-Methylthiophene	< 0.3	0.3	1,1-Dichloroethane		< 0.02 0.02
Ethylacetylene	< 0.06	0.06	Butyl mercaptan	< 0.3	0.3	1,1-Dichloroethylene		< 0.02 0.02
Ethylene	< 0.07	0.07	Carbon disulphide	0.3	0.2	1,2,3-Trimethylbenzene		0.1 0.05
Isobutane	< 0.1	0.1	Carbonyl sulphide	1.9	0.3	1,2,4-Trichlorobenzene		< 0.3 0.3
Isobutylene	< 0.1	0.1	Dimethyl disulphide	< 0.2	0.2	1,2,4-Trimethylbenzene		0.15 0.03
Methane	2.9	0.1	Dimethyl sulphide	0.3	0.2	1,2-Dibromoethane		< 0.02 0.02
n-Butane	< 0.2	0.2	Ethyl mercaptan	< 0.3	0.3	1,2-Dichlorobenzene		< 0.03 0.03
n-Propane	< 0.07	0.07	Ethyl sulphide	< 0.3	0.3	1,2-Dichloroethane		< 0.03 0.03
Propylene	< 0.1	0.1	Hydrogen sulphide	< 0.1	0.1	1,2-Dichloropropane		< 0.03 0.03
Propyne	< 0.1	0.1	Isobutyl mercaptan	< 0.3	0.3	1,3,5-Trimethylbenzene		0.04 0.03
trans-2-Butene	< 0.09	0.09	Isopropyl mercaptan	< 0.1	0.1	1,3-Butadiene		0.85 0.03
			Methyl mercaptan	< 0.2	0.2	1,3-Dichlorobenzene		< 0.4 0.4
			Pentyl mercaptan	< 0.4	0.4	1,4-Dichlorobenzene		< 0.4 0.4
			Propyl mercaptan	< 0.4	0.4	1,4-Dioxane		< 0.5 0.5
			tert-Butyl mercaptan	< 0.3	0.3	1-Butene/Isobutylene		3.79 0.06
			Thiophene	< 0.2	0.2	1-Hexene/2-Methyl-1-pentene		0.6 0.07
						1-Pentene		0.92 0.03
						2,2,4-Trimethylpentane		< 0.02 0.02
						2,2-Dimethylbutane		< 0.02 0.02
						2,3,4-Trimethylpentane		< 0.02 0.02
						2,3-Dimethylbutane		< 0.09 0.09
						2,3-Dimethylpentane		0.04 0.02
						2,4-Dimethylpentane		< 0.03 0.03
						2-Methylheptane		< 0.02 0.02
						2-Methylhexane		< 0.03 0.03
						2-Methylpentane		0.14 0.02
						3-Methylheptane		< 0.03 0.03
						3-Methylhexane		0.02 0.02
						3-Methylpentane		< 0.02 0.02
						Acetone	2400	21.1 0.4
						Acrolein	1.9	2.4 0.3
						Benzene	9.0	9.45 0.03
						Benzyl chloride		< 0.3 0.3
						Bromodichloromethane		< 0.03 0.03
						Bromoform		< 0.02 0.02
						Bromomethane		0.03 0.02
						Carbon disulfide	10	0.18 0.02
						Carbon tetrachloride		0.08 0.02
						Chlorobenzene		< 0.02 0.02
						Chloroethane		0.09 0.02
						Chloroform		< 0.02 0.02
						Chloromethane		1.06 0.04
						cis-1,2-Dichloroethene		< 0.02 0.02
						cis-1,3-Dichloropropene		< 0.03 0.03
						cis-2-Butene		0.29 0.03
						cis-2-Pentene		0.09 0.02
						Cyclohexane		< 0.04 0.04
						Cyclopentane		0.02 0.02
						Dibromochloromethane		< 0.02 0.02
						Ethanol		2 0.5
						Ethyl acetate		< 0.3 0.3
						Ethylbenzene	460	0.4 0.03
						Freon-11		0.28 0.02
						Freon-113		0.07 0.02
						Freon-114		< 0.03 0.03

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - August 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID			2024-08-14 @00:35 Non-methane Hydrocarbon 28939									
Method			NA-025		Method		NA-024		Method		AC-058	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane		Maximum Reading (ppmv)		1.9		Carbonyl sulphide	
Maximum Reading (ppmv)			2.9		Methane							

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - August 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID	2024-08-14 @00:35 Non-methane Hydrocarbon - BLANK 28951									
Method	NA-025		Method	NA-024		Method	AC-058			
Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-		
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	AAAOs (ppt)	Result (ppbv)	RDL (ppbv)	
1-Butene	< 0.10	0.1	2,5-Dimethylthiophene	< 0.3	0.3	1,1,1-Trichloroethane		< 0.02	0.02	
Acetylene	< 0.08	0.08	2-Ethylthiophene	< 0.2	0.2	1,1,2,2-Tetrachloroethane		< 0.02	0.02	
cis-2-Butene	< 0.04	0.04	2-Methylthiophene	< 0.2	0.2	1,1,2-Trichloroethane		< 0.02	0.02	
Ethane	< 0.1	0.1	3-Methylthiophene	< 0.3	0.3	1,1-Dichloroethane		< 0.02	0.02	
Ethylacetylene	< 0.06	0.06	Butyl mercaptan	< 0.3	0.3	1,1-Dichloroethylene		< 0.02	0.02	
Ethylene	< 0.07	0.07	Carbon disulphide	< 0.2	0.2	1,2,3-Trimethylbenzene		< 0.05	0.05	
Isobutane	< 0.1	0.1	Carbonyl sulphide	< 0.3	0.3	1,2,4-Trichlorobenzene		< 0.3	0.3	
Isobutylene	< 0.1	0.1	Dimethyl disulphide	< 0.2	0.2	1,2,4-Trimethylbenzene		< 0.03	0.03	
Methane	< 0.1	0.1	Dimethyl sulphide	< 0.2	0.2	1,2-Dibromoethane		< 0.02	0.02	
n-Butane	< 0.2	0.2	Ethyl mercaptan	< 0.3	0.3	1,2-Dichlorobenzene		< 0.03	0.03	
n-Propane	< 0.07	0.07	Ethyl sulphide	< 0.3	0.3	1,2-Dichloroethane		< 0.03	0.03	
Propylene	< 0.1	0.1	Hydrogen sulphide	< 0.1	0.1	1,2-Dichloropropane		< 0.03	0.03	
Propyne	< 0.1	0.1	Isobutyl mercaptan	< 0.3	0.3	1,3,5-Trimethylbenzene		< 0.03	0.03	
trans-2-Butene	< 0.09	0.09	Isopropyl mercaptan	< 0.1	0.1	1,3-Butadiene		< 0.03	0.03	
			Methyl mercaptan	< 0.2	0.2	1,3-Dichlorobenzene		< 0.4	0.4	
			Pentyl mercaptan	< 0.4	0.4	1,4-Dichlorobenzene		< 0.4	0.4	
			Propyl mercaptan	< 0.4	0.4	1,4-Dioxane		< 0.5	0.5	
			tert-Butyl mercaptan	< 0.3	0.3	1-Butene/Isobutylene		< 0.06	0.06	
			Thiophene	< 0.2	0.2	1-Hexene/2-Methyl-1-pentene		< 0.07	0.07	
						1-Pentene		< 0.03	0.03	
						2,2,4-Trimethylpentane		< 0.02	0.02	
						2,2-Dimethylbutane		< 0.02	0.02	
						2,3,4-Trimethylpentane		< 0.02	0.02	
						2,3-Dimethylbutane		< 0.09	0.09	
						2,3-Dimethylpentane		< 0.02	0.02	
						2,4-Dimethylpentane		< 0.03	0.03	
						2-Methylheptane		< 0.02	0.02	
						2-Methylhexane		< 0.03	0.03	
						2-Methylpentane		< 0.02	0.02	
						3-Methylheptane		< 0.03	0.03	
						3-Methylhexane		< 0.02	0.02	
						3-Methylpentane		< 0.02	0.02	
						Acetone	2400	< 0.4	0.4	
						Acrolein	1.9	< 0.3	0.3	
						Benzene	9.0	< 0.03	0.03	
						Benzyl chloride		< 0.3	0.3	
						Bromodichloromethane		< 0.03	0.03	
						Bromoform		< 0.02	0.02	
						Bromomethane		< 0.02	0.02	
						Carbon disulfide	10	< 0.02	0.02	
						Carbon tetrachloride		< 0.02	0.02	
						Chlorobenzene		< 0.02	0.02	
						Chloroethane		< 0.02	0.02	
						Chloroform		< 0.02	0.02	
						Chloromethane		< 0.04	0.04	
						cis-1,2-Dichloroethene		< 0.02	0.02	
						cis-1,3-Dichloropropene		< 0.03	0.03	
						cis-2-Butene		< 0.03	0.03	
						cis-2-Pentene		< 0.02	0.02	
						Cyclohexane		< 0.04	0.04	
						Cyclopentane		< 0.02	0.02	
						Dibromochloromethane		< 0.02	0.02	
						Ethanol		< 0.5	0.5	
						Ethyl acetate		< 0.3	0.3	
						Ethylbenzene	460	< 0.03	0.03	
						Freon-11		< 0.02	0.02	
						Freon-113		< 0.02	0.02	
						Freon-114		< 0.03	0.03	

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - August 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID	2024-08-14 @00:35 Non-methane Hydrocarbon - BLANK 28951									
Method	NA-025		Method	NA-024		Method	AC-058			
Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-		
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	AAAQOs (ppt)	Result (ppbv)	RDL (ppbv)	
						Freon-12		< 0.03	0.03	
						Hexachloro-1,3-butadiene		< 0.3	0.30	
						Isobutane		< 0.03	0.03	
						Isopentane		< 0.04	0.04	
						Isoprene		< 0.02	0.02	
						Isopropyl alcohol		< 0.3	0.3	
						Isopropylbenzene		< 0.04	0.04	
						m,p-Xylene		< 0.04	0.04	
						m-Diethylbenzene		< 0.02	0.02	
						m-Ethyltoluene		< 0.03	0.03	
						Methyl butyl ketone		< 0.4	0.40	
						Methyl ethyl ketone		< 0.3	0.3	
						Methyl isobutyl ketone		< 0.3	0.3	
						Methyl methacrylate		< 0.08	0.08	
						Methyl tert butyl ether		< 0.03	0.03	
						Methylcyclohexane		< 0.02	0.02	
						Methylcyclopentane		< 0.05	0.05	
						Methylene chloride		< 0.3	0.3	
						n-Butane		< 0.02	0.02	
						n-Decane		< 0.06	0.06	
						n-Dodecane		< 0.3	0.3	
						n-Heptane		< 0.04	0.04	
						n-Hexane	5960	< 0.03	0.03	
						n-Nonane		< 0.04	0.04	
						n-Octane		< 0.02	0.02	
						n-Pentane		< 0.04	0.0	
						n-Propylbenzene		< 0.06	0.06	
						n-Undecane		< 0.5	0.5	
						Naphthalene		< 0.3	0.3	
						o-Ethyltoluene		< 0.02	0.02	
						o-Xylene		< 0.03	0.03	
						p-Diethylbenzene		< 0.02	0.02	
						p-Ethyltoluene		< 0.04	0.04	
						Styrene	52.0	< 0.04	0.04	
						Tetrachloroethylene		< 0.02	0.02	
						Tetrahydrofuran		< 0.3	0.3	
						Toluene	499	< 0.03	0.03	
						trans-1,2-Dichloroethylene		< 0.06	0.06	
						trans-1,3-Dichloropropylene		< 0.02	0.02	
						trans-2-Butene		< 0.03	0.03	
						trans-2-Pentene		< 0.02	0.02	
						Trichloroethylene		< 0.02	0.02	
						Vinyl acetate		< 0.3	0.3	
						Vinyl chloride	51	< 0.02	0.02	

Passives

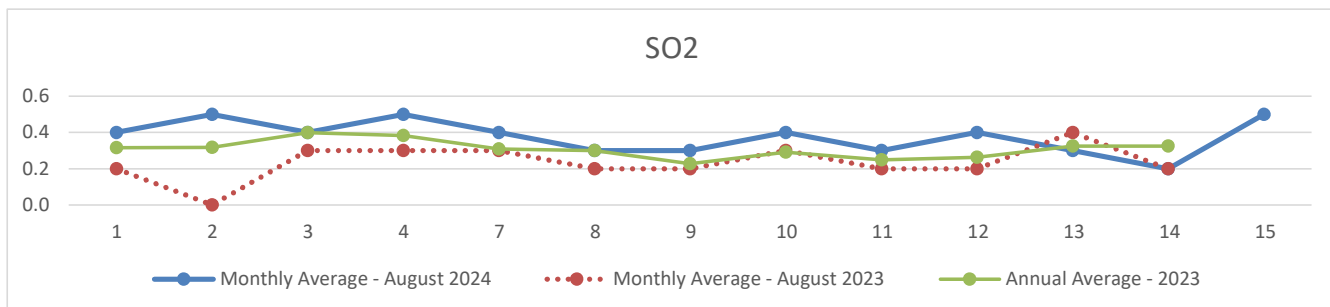
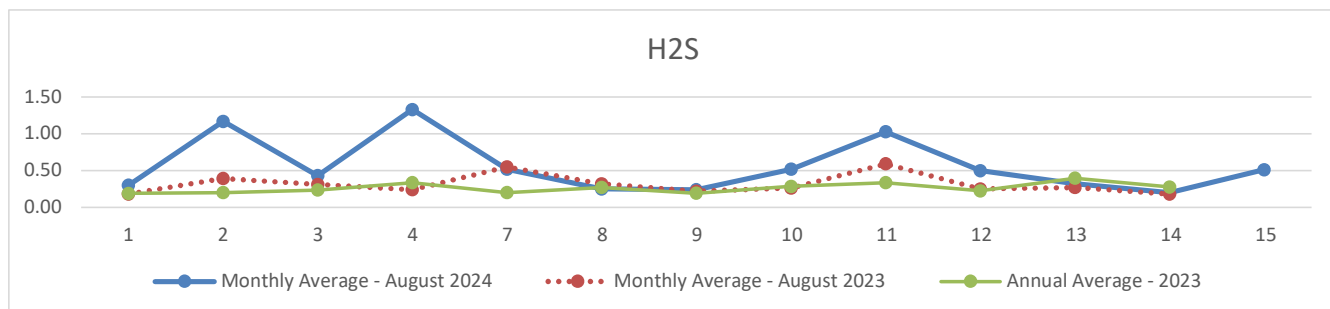


PEACE RIVER AREA MONITORING PROGRAM

PRC Site - August 2024

Passive Results

	H ₂ S		SO ₂	
Minimum (ppb)	0.20	#14	0.2	#14
Maximum (ppb)	1.33	#4	0.5	#2
Average (ppb)	0.56	-	0.38	-
No.	Calculated Value		Calculated Value	
1	0.30		0.4	
2	1.17		0.5	
3	0.43		0.4	
4	1.33		0.5	
7	0.52		0.4	
8	0.25		0.3	
9	0.24		0.3	
10	0.52		0.4	
11	1.03		0.3	
12	0.50		0.4	
13	0.32		0.3	
14	0.20		0.2	
15	0.51		0.5	
Reportable Detection Limit (RDL)	0.02		0.1	



End of Report



Peace River Area Monitoring Program

AUGUST 2024

Ambient Air Monitoring

Certified Laboratory Analysis Report

LAB-PRAMP-202408

Operation and Maintenance:

Bureau Veritas Canada

Data Validation and Report:

Peace River Area Monitoring Program

September 20, 2024

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NMHC Canister Analytical Results



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

Sample ID: 24080244-001 Priority: Normal



Customer ID: PRAMP
Cust Samp ID: PRAMP_Reno-20240813

Date Received- Lab Use Only

RECEIVED

AUG 19 2024

Client Contact Details:

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

RUSH (Surcharge) ☐

Invoice Instructions:

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

InnoTech Contact: Graham Knox Phone: 780-632-8403 Cell: 780-632-1519
Email: Graham.Knox@innotechalberta.ca

Sample ID (PRAMP_station_yyyymmdd) (Find Sample ID from BV's email)	Canister ID (Find canister ID from canister tag)	Sample Description	Date/Time Canister Triggered (Find Date/Time from BV's email)		Analysis Requested
			Date (yyyy/mm/dd)	Time (24 Hr) (MST)	
PRAMP_842b- PRAMP_986c- PRAMP_Reno- 20240813	28916 28967	☐ Methane Trigger ☒ NMHC Trigger ☐ Methane Blank ☐ NMHC Blank ☐ Expired Canister – No further analysis is required.	2024/08/13	1950	* C1C4 Air, VOC Full, RSC Air * Unknowns to be reported * Carbon Isotopic Analysis (if sample is collected from Methane trigger)

Sample Collection:

Collected By JM (Name) of PRAMP (Company) on 2024/08/14 1130 (Date/Time) (MST).



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

EAS CANISTER

Sample ID: 24080244-002 Priority: Normal



Customer ID: PRAMP
Cust Samp ID: PRAMP_Reno-20240813-Blank

Date Received- Lab Use Only

RECEIVED

AUG 19 2024

Client Contact Details:

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

RUSH (Surcharge) ☐

Invoice Instructions:

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

InnoTech Contact: Graham Knox Phone: 780-632-8403 Cell: 780-632-1519
Email: Graham.Knox@innotechalberta.ca

Sample ID (PRAMP station_yyyymmdd) (Find Sample ID from BV's email)	Canister ID (Find canister ID from canister tag)	Sample Description	Date/Time Canister Triggered (Find Date/Time from BV's email)		Analysis Requested
			Date (yyyy/mm/dd)	Time (24 Hr) (MST)	
PRAMP_842b- PRAMP_986c- PRAMP_Reno- 20240813	 28933	☐ Methane Trigger ☐ NMHC Trigger ☐ Methane Blank ☒ NMHC Blank ☐ Expired Canister – No further analysis is required.	 2024/08/13	 1950	* C1C4 Air, VOC Full, RSC Air * Unknowns to be reported * Carbon Isotopic Analysis (if sample is collected from Methane trigger)

Sample Collection:

Collected By JM (Name) of PRAMP (Company) on 2024/08/14 1130 (Date/Time) (MST).



Canister ID: 28916

This cleaned canister meets or exceeds TO-15 Method Specifications

Proofed by: ISQ on: JUL 09 2024
Evacuated: JUL 17 2024 Recertified: JUL 30 2024

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

Laboratory Contact Number: 780-632-8403

Sample ID: PRAMP Reno Sample 20240813

Sampled By: _____

Starting Vacuum:

-27.0 "Hg

End Vacuum:

-3 "Hg/psig



Canister ID: 28933

This cleaned canister meets or exceeds TO-15 Method Specifications

Proofed by: ISQ on: JUL 09 2024
Evacuated: JUL 17 2024 Recertified: JUL 30 2024

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

Laboratory Contact Number: 780-632-8403

Sample ID: PRAMP Reno Blank 20240813

Sampled By: _____

Starting Vacuum:

-27.1 "Hg

End Vacuum:

-29 "Hg/psig

Sample ID: 24080244-001 Priority: Normal



Customer ID: PRAMP

Cust Samp ID: PRAMP_Reno-20240813

TERMS AND CONDITIONS

The attached document entitled "**Chain of Custody Form**" is subject to the following Terms and Conditions, unless otherwise specified on the Quotation. InnoTech Alberta's commencement of the Services shall be deemed acceptance of the terms and conditions by the Client.

1. Any proposal contained herein is prepared for the consideration of the Client only. Its contents may not be used or disclosed to any other party without prior written consent of the INNOTECH ALBERTA INC. (hereinafter referred to as "InnoTech Alberta").
2. InnoTech Alberta will perform the Services in accordance with normal professional standards.
3. The delivery time for performance of the Services (as set out on the front page of this Quotation) is approximate and may be changed by InnoTech Alberta giving written notice to the Client.
4. InnoTech Alberta will exercise due care and proficiency in testing items submitted by a Client. InnoTech Alberta shall not, however, be liable to the Client for any damage or loss caused to the item being tested or for any damage, loss or expense caused by any delay in carrying out the test, including any damage, loss or expense resulting from InnoTech Alberta's negligence. InnoTech Alberta shall not be responsible for any damage, which is a natural or necessary result of any testing procedure.
5. For the purposes of this Quotation, Intellectual Property means all information, data, artistic and literary works, concepts, designs, processes, software, algorithms and inventions, including, without limitation, those that could be the subject of patent, copyright, industrial design, trade secret or other forms of protection. Intellectual Property which was owned by either InnoTech Alberta or the Client prior to the signing of this Agreement remains the property of that party. Nothing in this Agreement shall operate as a license, permission or grant of any other rights to either InnoTech Alberta's or the Client's Intellectual Property.
6. All data, reports and other information relating to the Services shall be treated by InnoTech Alberta as the confidential property of the Client, and InnoTech Alberta will use reasonable efforts to ensure that its employees, contractors and agents will not disclose the same to any other person, firm or corporation during the term of this Agreement and for a period of five (5) years after the date of termination of the Agreement. The obligation of confidentiality set out herein shall not apply to any information that was in InnoTech Alberta's possession prior to receipt from the Client or which is or becomes part of the public domain through no act or failure on the part of InnoTech Alberta. The obligation of confidentiality set out in this Section shall not prevent the disclosure of information to any level of government having jurisdiction to make lawful demand therefor, or required to be disclosed by any applicable law. Any records required to be maintained by InnoTech Alberta pursuant to this Agreement are subject to the protection and access provisions of the Freedom of Information and Protection of Privacy Act (Alberta).
7. The reported results of any InnoTech Alberta tests or evaluations performed on samples or items provided by the Client shall be interpreted as being specific to the sample or item tested. InnoTech Alberta makes no representation that any similar or related untested samples or items would produce the same results.
8. The Client shall not use InnoTech Alberta's name in any advertising material, sale offer, news releases, public statements or announcements, whether written or oral relating to the Services or the results thereof, without the prior written consent of InnoTech Alberta.
9. Records, test data, reports and samples, except where shipped to the Client after completion of the work shall be retained by InnoTech Alberta according to InnoTech Alberta's approved Records Retention and Disposition Schedule.
10. Prices quoted are in Canadian Dollars unless otherwise stated in writing and are exclusive of any provincial, municipal, sales, use or goods and services tax.
11. Prices quoted do not include shipping, insurance or cost of consumables. The Client shall be responsible for all costs incurred by InnoTech Alberta in collecting any item for testing and returning the item to the Client after testing and shall be responsible for all necessary incidental costs incurred by InnoTech Alberta in providing the Services. InnoTech Alberta will not be responsible for any damage or loss to items during shipping and it is the responsibility of the Client to arrange and pay for any insurance it deems necessary.
12. Any test samples or other materials supplied by the Client to InnoTech Alberta may, at InnoTech Alberta's option, be returned by InnoTech Alberta to the Client. The Client shall:
 - (a) be responsible for all costs associated with the handling, transportation and disposal of such materials;
 - (b) reimburse InnoTech Alberta for any costs incurred by InnoTech Alberta associated with the handling, transportation and disposal of such materials; and
 - (c) indemnify and hold InnoTech Alberta harmless from any and all claims, damages or actions associated with the handling, transportation and disposal of such materials.
13. The Client shall pay all invoices rendered by InnoTech Alberta to the Client within thirty (30) days from the date of invoice, without deduction or set-off.
14. If the Client fails to pay any amount under this Agreement, such unpaid amount shall bear interest at a rate per month equal to one (1%) percent (or 12.6825% per annum) with interest on overdue interest at the same rate.
15. InnoTech Alberta makes no representation, warranties or conditions, either expressed or implied, statutory or otherwise and does not warrant the quality, state, merchantability or fitness for any purpose of any goods or products to be delivered pursuant to this Agreement. The Client accepts the results of these Services or items tested as is, and acknowledges that any use or interpretation of the information contained is at the Client's own risk.
16. In no event shall InnoTech Alberta be liable for any indirect or consequential damage or loss suffered by the Client, including loss of anticipated profits.
17. The Client shall indemnify and hold harmless InnoTech Alberta from any and all claims, demands, actions and costs (including legal costs on a solicitor-client basis) that may arise out of:
 - (a) any dangerous defect or content in the item being tested, whether apparent or not, which dangerous defect or content was not disclosed in writing to InnoTech Alberta by the Client at the time the item was submitted for testing;
 - (b) differences between those items actually tested and items previously or subsequently produced which are purported to be identical to the item tested; or
 - (c) any use of the tested item or any item incorporating the tested item, whether by the Client or a third party following its return to the Client.The hold harmless shall survive this Agreement.
18. The Client shall, at its own expense and without limiting its liabilities herein, be responsible for insuring its operation in an amount not less than \$2,000,000 inclusive per occurrence, insuring against bodily injury, and property damage including loss of use thereof. Further, the Client is responsible for insuring all owned property directly or indirectly related to this Agreement and InnoTech Alberta shall have no liability for any loss or damage to such property.
19. InnoTech Alberta shall maintain the following insurance: (i) commercial general liability insurance (including cross liability, severability of interests, non-owned automobile liability) in the amount of two million dollars (\$2,000,000.00) per occurrence, and; (ii) professional liability and errors and omissions insurance in the amount of one million dollars (\$1,000,000.00) per claim, and two million dollars (\$2,000,000.00) in the aggregate. In addition, InnoTech Alberta shall maintain all workers' compensation coverage required by applicable laws. Notwithstanding the foregoing, InnoTech Alberta reserves the right to supplement or add insurance coverage from time to time as may be required in its sole discretion. InnoTech Alberta may provide certificates of insurance for coverages outlined in (i) and (ii) above.
20. The Client agrees to comply with all InnoTech Alberta Safety & Security regulations in effect while on InnoTech Alberta premises.
21. This Agreement represents the entire agreement between the parties and shall supersede all prior agreements relative to this transaction.
22. If a party's performance of any of its obligations under this Agreement (excepting only an obligation to pay) is delayed, rendered impossible or impractical, or prevented in whole or in part due to circumstances beyond its reasonable control, including but not limited to acts of God, war, terrorism, labour disputes, pandemics or epidemics, global health emergencies, or governmental action, that party will not be in breach of this Agreement due to the delay or failure in performance occasioned by such event..
23. InnoTech Alberta may assign this Quotation to an "affiliated" (as that term is defined at Section 2 of the Business Corporations Act (Alberta)) or successor entity on written notice to the Client.
24. This Quotation and rights and parties thereto shall be governed by and construed according to the laws of the Province of Alberta. The parties hereby submit to the jurisdiction of the Courts of Alberta.

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

INVOICE: Office Manager

CLIENT SAMPLE ID

PRAMP_Reno-20240813

Matrix

Ambient Air

CANISTER ID: 28916

PRIORITY: Normal

DESCRIPTION: NMHC Trigger

DATE SAMPLED: 13-Aug-24 19:50

DATE RECEIVED: 19-Aug-24

REPORT CREATED: 23-Aug-24

REPORT NUMBER: 24080244

VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-001	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	20-Aug-24
24080244-001	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	20-Aug-24
24080244-001	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	20-Aug-24
24080244-001	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	20-Aug-24
24080244-001	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	20-Aug-24
24080244-001	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	20-Aug-24
24080244-001	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	20-Aug-24
24080244-001	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	20-Aug-24
24080244-001	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	20-Aug-24
24080244-001	Methane		2.5 ppmv	0.1	NA-025	20-Aug-24
24080244-001	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	20-Aug-24
24080244-001	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	20-Aug-24
24080244-001	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	20-Aug-24
24080244-001	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	20-Aug-24
24080244-001	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-001	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24
24080244-001	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24

Report certified by: Andrea Conner, Admin Assistant

On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: August 23, 2024

Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at <https://directory.cala.ca/>

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-20240813		28916	Ambient Air	13-Aug-24	19:50
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	24080244	REPORT CREATED:	23-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-001	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-001	Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-001	Carbon disulphide		0.3 ppbv	0.2	NA-024	19-Aug-24
24080244-001	Carbonyl sulphide		1.3 ppbv	0.3	NA-024	19-Aug-24
24080244-001	Dimethyl disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24
24080244-001	Dimethyl sulphide		0.3 ppbv	0.2	NA-024	19-Aug-24
24080244-001	Ethyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-001	Ethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-001	Hydrogen sulphide	K, T, U	< 0.1 ppbv	0.1	NA-024	19-Aug-24
24080244-001	Isobutyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-001	Isopropyl mercaptan	K, T, U	< 0.1 ppbv	0.1	NA-024	19-Aug-24
24080244-001	Methyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24
24080244-001	Pentyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	19-Aug-24
24080244-001	Propyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	19-Aug-24
24080244-001	tert-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-001	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24
24080244-001	1,1,1-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	1,1,2-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	1,1-Dichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	1,1-Dichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	1,2,3-Trimethylbenzene	I	0.05 ppbv	0.05	AC-058	22-Aug-24
24080244-001	1,2,4-Trichlorobenzene	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-001	1,2,4-Trimethylbenzene	I	0.11 ppbv	0.03	AC-058	22-Aug-24
24080244-001	1,2-Dibromoethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24

Report certified by: Andrea Conner, Admin Assistant

Date: August 23, 2024

On behalf of: Adam Malcolm, Manager, Chemical Testing

Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-20240813		28916	Ambient Air	13-Aug-24	19:50
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	24080244	REPORT CREATED:	23-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-001	1,2-Dichlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	1,2-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	1,2-Dichloropropane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	1,3,5-Trimethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	1,3-Butadiene		0.75 ppbv	0.03	AC-058	22-Aug-24
24080244-001	1,3-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	22-Aug-24
24080244-001	1,4-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	22-Aug-24
24080244-001	1,4-Dioxane	K, T, U	< 0.5 ppbv	0.5	AC-058	22-Aug-24
24080244-001	1-Butene/Isobutylene		2.64 ppbv	0.06	AC-058	22-Aug-24
24080244-001	1-Hexene/2-Methyl-1-pentene		0.37 ppbv	0.07	AC-058	22-Aug-24
24080244-001	1-Pentene		0.53 ppbv	0.03	AC-058	22-Aug-24
24080244-001	2,2,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	2,2-Dimethylbutane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	2,3,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	2,3-Dimethylbutane	K, T, U	< 0.09 ppbv	0.09	AC-058	22-Aug-24
24080244-001	2,3-Dimethylpentane	I	0.04 ppbv	0.02	AC-058	22-Aug-24
24080244-001	2,4-Dimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	2-Methylheptane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	2-Methylhexane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	2-Methylpentane		0.14 ppbv	0.02	AC-058	22-Aug-24
24080244-001	3-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	3-Methylhexane	I	0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	3-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Acetone		25.7 ppbv	0.4	AC-058	22-Aug-24
24080244-001	Acrolein		3.7 ppbv	0.3	AC-058	22-Aug-24

Report certified by: Andrea Conner, Admin Assistant

Date: August 23, 2024

On behalf of: Adam Malcolm, Manager, Chemical Testing

Inquiries: (780) 632 8403

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-20240813		28916	Ambient Air	13-Aug-24	19:50
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	24080244	REPORT CREATED:	23-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-001	Benzene		8.52 ppbv	0.03	AC-058	22-Aug-24
24080244-001	Benzyl chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-001	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	Bromoform	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Bromomethane	I	0.05 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Carbon disulfide		0.23 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Carbon tetrachloride	I	0.09 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Chlorobenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Chloromethane		1.16 ppbv	0.04	AC-058	22-Aug-24
24080244-001	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	cis-1,3-Dichloropropene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Cyclohexane	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-001	Cyclopentane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Ethanol		3.3 ppbv	0.5	AC-058	22-Aug-24
24080244-001	Ethyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-001	Ethylbenzene		0.32 ppbv	0.03	AC-058	22-Aug-24
24080244-001	Freon-11		0.32 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Freon-113	I	0.08 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	Freon-12		0.58 ppbv	0.03	AC-058	22-Aug-24

Report certified by: Andrea Conner, Admin Assistant

Date: August 23, 2024

On behalf of: Adam Malcolm, Manager, Chemical Testing

Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-20240813		28916	Ambient Air	13-Aug-24	19:50
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	24080244	REPORT CREATED:	23-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-001	Hexachloro-1,3-butadiene	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-001	Isobutane		0.71 ppbv	0.03	AC-058	22-Aug-24
24080244-001	Isopentane		1.07 ppbv	0.04	AC-058	22-Aug-24
24080244-001	Isoprene		2.06 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Isopropyl alcohol	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-001	Isopropylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-001	m,p-Xylene		0.53 ppbv	0.04	AC-058	22-Aug-24
24080244-001	m-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	m-Ethyltoluene	I	0.07 ppbv	0.03	AC-058	22-Aug-24
24080244-001	Methyl butyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	22-Aug-24
24080244-001	Methyl ethyl ketone		2.6 ppbv	0.3	AC-058	22-Aug-24
24080244-001	Methyl isobutyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-001	Methyl methacrylate	K, T, U	< 0.08 ppbv	0.08	AC-058	22-Aug-24
24080244-001	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	Methylcyclohexane	I	0.03 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Methylcyclopentane	K, T, U	< 0.05 ppbv	0.05	AC-058	22-Aug-24
24080244-001	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-001	n-Butane		2.39 ppbv	0.02	AC-058	22-Aug-24
24080244-001	n-Decane	K, T, U	< 0.06 ppbv	0.06	AC-058	22-Aug-24
24080244-001	n-Dodecane	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-001	n-Heptane		0.31 ppbv	0.04	AC-058	22-Aug-24
24080244-001	n-Hexane		0.50 ppbv	0.03	AC-058	22-Aug-24
24080244-001	n-Octane		0.18 ppbv	0.02	AC-058	22-Aug-24
24080244-001	n-Pentane		0.97 ppbv	0.04	AC-058	22-Aug-24
24080244-001	n-Propylbenzene	I	0.07 ppbv	0.06	AC-058	22-Aug-24

Report certified by: Andrea Conner, Admin Assistant

Date: August 23, 2024

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On behalf of: Adam Malcolm, Manager, Chemical Testing

LAB-PRAMP-202408

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Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-20240813		28916	Ambient Air	13-Aug-24	19:50
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	24080244	REPORT CREATED:	23-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-001	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	22-Aug-24
24080244-001	Naphthalene	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-001	n-Nonane		0.11 ppbv	0.04	AC-058	22-Aug-24
24080244-001	o-Ethyltoluene	I	0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	o-Xylene		0.29 ppbv	0.03	AC-058	22-Aug-24
24080244-001	p-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	p-Ethyltoluene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-001	Styrene	I	0.13 ppbv	0.04	AC-058	22-Aug-24
24080244-001	Tetrachloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Tetrahydrofuran	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-001	Toluene		3.70 ppbv	0.03	AC-058	22-Aug-24
24080244-001	trans-1,2-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	22-Aug-24
24080244-001	trans-1,3-Dichloropropylene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	trans-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-001	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Trichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-001	Vinyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-001	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24

CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-20240813-Blank		28933	Ambient Air	13-Aug-24	19:50
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080244	REPORT CREATED:	23-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-002	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	20-Aug-24
24080244-002	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	20-Aug-24
24080244-002	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	20-Aug-24
24080244-002	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	20-Aug-24
24080244-002	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	20-Aug-24
24080244-002	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	20-Aug-24
24080244-002	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	20-Aug-24
24080244-002	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	20-Aug-24
24080244-002	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	20-Aug-24
24080244-002	Methane	K, T, U	< 0.1 ppmv	0.1	NA-025	20-Aug-24
24080244-002	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	20-Aug-24
24080244-002	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	20-Aug-24
24080244-002	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	20-Aug-24
24080244-002	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	20-Aug-24
24080244-002	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-002	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24
24080244-002	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24
24080244-002	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-002	Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-002	Carbon disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24
24080244-002	Carbonyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-002	Dimethyl disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24
24080244-002	Dimethyl sulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24
24080244-002	Ethyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-002	Ethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24

Report certified by: Andrea Conner, Admin Assistant

Date: August 23, 2024

On behalf of: Adam Malcolm, Manager, Chemical Testing

Inquiries: (780) 632 8403

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-20240813-Blank		28933	Ambient Air	13-Aug-24	19:50
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080244	REPORT CREATED:	23-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-002	Hydrogen sulphide	K, T, U	< 0.1 ppbv	0.1	NA-024	19-Aug-24
24080244-002	Isobutyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-002	Isopropyl mercaptan	K, T, U	< 0.1 ppbv	0.1	NA-024	19-Aug-24
24080244-002	Methyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24
24080244-002	Pentyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	19-Aug-24
24080244-002	Propyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	19-Aug-24
24080244-002	tert-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Aug-24
24080244-002	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Aug-24
24080244-002	1,1,1-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	1,1,2-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	1,1-Dichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	1,1-Dichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	1,2,3-Trimethylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	22-Aug-24
24080244-002	1,2,4-Trichlorobenzene	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	1,2,4-Trimethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	1,2-Dibromoethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	1,2-Dichlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	1,2-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	1,2-Dichloropropane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	1,3,5-Trimethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	1,3-Butadiene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	1,3-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	22-Aug-24
24080244-002	1,4-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	22-Aug-24
24080244-002	1,4-Dioxane	K, T, U	< 0.5 ppbv	0.5	AC-058	22-Aug-24

Report certified by: Andrea Conner, Admin Assistant

Date: August 23, 2024

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-20240813-Blank		28933	Ambient Air	13-Aug-24	19:50
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080244	REPORT CREATED:	23-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-002	1-Butene/Isobutylene	K, T, U	< 0.06 ppbv	0.06	AC-058	22-Aug-24
24080244-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07 ppbv	0.07	AC-058	22-Aug-24
24080244-002	1-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	2,2,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	2,2-Dimethylbutane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	2,3,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	2,3-Dimethylbutane	K, T, U	< 0.09 ppbv	0.09	AC-058	22-Aug-24
24080244-002	2,3-Dimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	2,4-Dimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	2-Methylheptane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	2-Methylhexane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	2-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	3-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	3-Methylhexane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	3-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Acetone	K, T, U	< 0.4 ppbv	0.4	AC-058	22-Aug-24
24080244-002	Acrolein	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	Benzene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	Benzyl chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	Bromoform	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Bromomethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Carbon disulfide	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Carbon tetrachloride	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Chlorobenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24

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Date: August 23, 2024

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-20240813-Blank		28933	Ambient Air	13-Aug-24	19:50
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080244	REPORT CREATED:	23-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-002	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Chloromethane	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-002	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	cis-1,3-Dichloropropene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Cyclohexane	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-002	Cyclopentane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Ethanol	K, T, U	< 0.5 ppbv	0.5	AC-058	22-Aug-24
24080244-002	Ethyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	Ethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	Freon-11	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Freon-113	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	Freon-12	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	Hexachloro-1,3-butadiene	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	Isobutane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	Isopentane	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-002	Isoprene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Isopropyl alcohol	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	Isopropylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-002	m,p-Xylene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-002	m-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-20240813-Blank		28933	Ambient Air	13-Aug-24	19:50
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080244	REPORT CREATED:	23-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-002	m-Ethyltoluene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	Methyl butyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	22-Aug-24
24080244-002	Methyl ethyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	Methyl isobutyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	Methyl methacrylate	K, T, U	< 0.08 ppbv	0.08	AC-058	22-Aug-24
24080244-002	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	Methylcyclohexane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Methylcyclopentane	K, T, U	< 0.05 ppbv	0.05	AC-058	22-Aug-24
24080244-002	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	n-Butane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	n-Decane	K, T, U	< 0.06 ppbv	0.06	AC-058	22-Aug-24
24080244-002	n-Dodecane	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	n-Heptane	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-002	n-Hexane	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	n-Octane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	n-Pentane	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-002	n-Propylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	22-Aug-24
24080244-002	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	22-Aug-24
24080244-002	Naphthalene	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	n-Nonane	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-002	o-Ethyltoluene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	o-Xylene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	p-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	p-Ethyltoluene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24
24080244-002	Styrene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Aug-24

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DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080244	REPORT CREATED:	23-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080244-002	Tetrachloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Tetrahydrofuran	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	Toluene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	trans-1,2-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	22-Aug-24
24080244-002	trans-1,3-Dichloropropylene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	trans-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Aug-24
24080244-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Trichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24
24080244-002	Vinyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Aug-24
24080244-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Aug-24



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Revision History

Order ID	Ver	Date	Reason
24080244	01	23-Aug-24	Report created

Methods

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

List of Analytical Method IDs within InnoTech's ISO/IEC 17025:2017 CALA Scope of Accreditation

Method ID	Description
AC-013	Mercury in Waters by Cold Vapor Atomic Fluorescence Detection (CVAFS)
AC-020	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-021	Elemental Analysis Methodology of Filter-collected Airborne Particulate Matter (PM) by ICP-MS
AC-026	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-029	Procedure for the Equilibration and Weighing of Membrane Filters and PUFs on the Mettler Toledo Micro Balance
AC-035	Analysis of Glyphosate, Aminomethylphosphonic Acid and Glufosinate in Water
AC-038	Trace Metal Analysis of Water Samples by ICP-MS
AC-048	Specific Conductance (Conductivity Meter Method)
AC-049	pH (Meter Method)
AC-054	Alkalinity Total and Phenolphthalein
AC-058	Determination of Volatile Organic Compounds in Ambient Air by Gas Chromatography Mass Spectrometry
AC-060	Trace Metal Analysis of Soil Sediment and Industrial Waste Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-061	Trace Metal Analysis for Biological Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-065	Analysis of Naphthenic Acids in Water by HPLC-Orbitrap-MS analysis
AC-074	Pesticides in Water
AC-079	Alkylated PAH in Soil and Sediment
AC-080	Alkylated PAH in Water (SPE Extraction)
NA-006	Determination of BTEX, F1 Hydrocarbons and F2, F3 and F4 Hydrocarbons in Water
NA-024	Analysis of Reduced Sulfur Compounds in Air

Qualifiers

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



PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Order Comments

24080244

Send results to pramptech@prampairshed.ca.



PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Sample Comments

Result Comments

Note:

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



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

EAS CANISTER

Sample ID: 24080188-002 Priority: Normal



Customer ID: PRAMP
Cust Samp ID: PRAMP_986c-20240814

Date Received- Lab Use Only



Client Contact Details:

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

RUSH (Surcharge) ☐

Invoice Instructions:

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

InnoTech Contact: Graham Knox Phone: 780-632-8403 Cell: 780-632-1519

Email: Graham.Knox@innotechalberta.ca

Sample ID (PRAMP_station_yyyymmdd) (Find Sample ID from BV's email)	Canister ID (Find canister ID from canister tag)	Sample Description	Date/Time Canister Triggered (Find Date/Time from BV's email)		Analysis Requested
			Date (yyyy/mm/dd)	Time (24 Hr) (MST)	
PRAMP_842b- <u>20240814</u> PRAMP_986c- <u>20240813</u> PRAMP_Reno-	<u>28951</u>	☐ Methane Trigger ☐ NMHC Trigger ☐ Methane Blank ☒ NMHC Blank ☐ Expired Canister – No further analysis is required.	<u>2024/08/14</u>	<u>0040</u>	* C1C4 Air, VOC Full, RSC Air * Unknowns to be reported * Carbon Isotopic Analysis (if sample is collected from Methane trigger)

Sample Collection:

Collected By JM (Name) of PRAMP (Company) on 2024/08/14 1245 (Date/Time) (MST).



Canister ID: 28939

This cleaned canister meets or exceeds TO-15 Method Specifications

Proofed by: ISQ on: JUL 09 2024

Evacuated: JUL 17 2024 Recertified: _____

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

Laboratory Contact Number: 780-632-8403

Sample ID: PRAM 986C Sample 202408

Sampled By: _____

Starting Vacuum:

-27.2 "Hg

End Vacuum:

-3 "Hg/psig



Canister ID: 28951

This cleaned canister meets or exceeds TO-15 Method Specifications

Proofed by: ISQ on: JUL 09 2024

Evacuated: JUL 17 2024 Recertified: _____

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

Laboratory Contact Number: 780-632-8403

Sample ID: PRAMP 986C Blank 202408

Sampled By: _____

Starting Vacuum:

-27.4 "Hg

End Vacuum:

-28 "Hg/psig

Sample ID: 24080188-001 Priority: Normal



Customer ID: PRAMP

Cust Samp ID: PRAMP_986c-20240814

{00004818;6}

TERMS AND CONDITIONS

The attached document entitled "**Chain of Custody Form**" is subject to the following Terms and Conditions, unless otherwise specified on the Quotation. InnoTech Alberta's commencement of the Services shall be deemed acceptance of the terms and conditions by the Client.

1. Any proposal contained herein is prepared for the consideration of the Client only. Its contents may not be used or disclosed to any other party without prior written consent of the INNOTECH ALBERTA INC. (hereinafter referred to as "InnoTech Alberta").
2. InnoTech Alberta will perform the Services in accordance with normal professional standards.
3. The delivery time for performance of the Services (as set out on the front page of this Quotation) is approximate and may be changed by InnoTech Alberta giving written notice to the Client.
4. InnoTech Alberta will exercise due care and proficiency in testing items submitted by a Client. InnoTech Alberta shall not, however, be liable to the Client for any damage or loss caused to the item being tested or for any damage, loss or expense caused by any delay in carrying out the test, including any damage, loss or expense resulting from InnoTech Alberta's negligence. InnoTech Alberta shall not be responsible for any damage, which is a natural or necessary result of any testing procedure.
5. For the purposes of this Quotation, Intellectual Property means all information, data, artistic and literary works, concepts, designs, processes, software, algorithms and inventions, including, without limitation, those that could be the subject of patent, copyright, industrial design, trade secret or other forms of protection. Intellectual Property which was owned by either InnoTech Alberta or the Client prior to the signing of this Agreement remains the property of that party. Nothing in this Agreement shall operate as a license, permission or grant of any other rights to either InnoTech Alberta's or the Client's Intellectual Property.
6. All data, reports and other information relating to the Services shall be treated by InnoTech Alberta as the confidential property of the Client, and InnoTech Alberta will use reasonable efforts to ensure that its employees, contractors and agents will not disclose the same to any other person, firm or corporation during the term of this Agreement and for a period of five (5) years after the date of termination of the Agreement. The obligation of confidentiality set out herein shall not apply to any information that was in InnoTech Alberta's possession prior to receipt from the Client or which is or becomes part of the public domain through no act or failure on the part of InnoTech Alberta. The obligation of confidentiality set out in this Section shall not prevent the disclosure of information to any level of government having jurisdiction to make lawful demand therefor, or required to be disclosed by any applicable law. Any records required to be maintained by InnoTech Alberta pursuant to this Agreement are subject to the protection and access provisions of the Freedom of Information and Protection of Privacy Act (Alberta).
7. The reported results of any InnoTech Alberta tests or evaluations performed on samples or items provided by the Client shall be interpreted as being specific to the sample or item tested. InnoTech Alberta makes no representation that any similar or related untested samples or items would produce the same results.
8. The Client shall not use InnoTech Alberta's name in any advertising material, sale offer, news releases, public statements or announcements, whether written or oral relating to the Services or the results thereof, without the prior written consent of InnoTech Alberta.
9. Records, test data, reports and samples, except where shipped to the Client after completion of the work shall be retained by InnoTech Alberta according to InnoTech Alberta's approved Records Retention and Disposition Schedule.
10. Prices quoted are in Canadian Dollars unless otherwise stated in writing and are exclusive of any provincial, municipal, sales, use or goods and services tax.
11. Prices quoted do not include shipping, insurance or cost of consumables. The Client shall be responsible for all costs incurred by InnoTech Alberta in collecting any item for testing and returning the item to the Client after testing and shall be responsible for all necessary incidental costs incurred by InnoTech Alberta in providing the Services. InnoTech Alberta will not be responsible for any damage or loss to items during shipping and it is the responsibility of the Client to arrange and pay for any insurance it deems necessary.
12. Any test samples or other materials supplied by the Client to InnoTech Alberta may, at InnoTech Alberta's option, be returned by InnoTech Alberta to the Client. The Client shall:
 - (a) be responsible for all costs associated with the handling, transportation and disposal of such materials;

- (b) reimburse InnoTech Alberta for any costs incurred by InnoTech Alberta associated with the handling, transportation and disposal of such materials; and
 - (c) indemnify and hold InnoTech Alberta harmless from any and all claims, damages or actions associated with the handling, transportation and disposal of such materials.
13. The Client shall pay all invoices rendered by InnoTech Alberta to the Client within thirty (30) days from the date of invoice, without deduction or set-off.
 14. If the Client fails to pay any amount under this Agreement, such unpaid amount shall bear interest at a rate per month equal to one (1%) percent (or 12.6825% per annum) with interest on overdue interest at the same rate.
 15. InnoTech Alberta makes no representation, warranties or conditions, either expressed or implied, statutory or otherwise and does not warrant the quality, state, merchantability or fitness for any purpose of any goods or products to be delivered pursuant to this Agreement. The Client accepts the results of these Services or items tested as is, and acknowledges that any use or interpretation of the information contained is at the Client's own risk.
 16. In no event shall InnoTech Alberta be liable for any indirect or consequential damage or loss suffered by the Client, including loss of anticipated profits.
 17. The Client shall indemnify and hold harmless InnoTech Alberta from any and all claims, demands, actions and costs (including legal costs on a solicitor-client basis) that may arise out of:
 - (a) any dangerous defect or content in the item being tested, whether apparent or not, which dangerous defect or content was not disclosed in writing to InnoTech Alberta by the Client at the time the item was submitted for testing;
 - (b) differences between those items actually tested and items previously or subsequently produced which are purported to be identical to the item tested; or
 - (c) any use of the tested item or any item incorporating the tested item, whether by the Client or a third party following its return to the Client.The hold harmless shall survive this Agreement.
 18. The Client shall, at its own expense and without limiting its liabilities herein, be responsible for insuring its operation in an amount not less than \$2,000,000 inclusive per occurrence, insuring against bodily injury, and property damage including loss of use thereof. Further, the Client is responsible for insuring all owned property directly or indirectly related to this Agreement and InnoTech Alberta shall have no liability for any loss or damage to such property.
 19. InnoTech Alberta shall maintain the following insurance: (i) commercial general liability insurance (including cross liability, severability of interests, non-owned automobile liability) in the amount of two million dollars (\$2,000,000.00) per occurrence, and; (ii) professional liability and errors and omissions insurance in the amount of one million dollars (\$1,000,000.00) per claim, and two million dollars (\$2,000,000.00) in the aggregate. In addition, InnoTech Alberta shall maintain all workers' compensation coverage required by applicable laws. Notwithstanding the foregoing, InnoTech Alberta reserves the right to supplement or add insurance coverage from time to time as may be required in its sole discretion. InnoTech Alberta may provide certificates of insurance for coverages outlined in (i) and (ii) above.
 20. The Client agrees to comply with all InnoTech Alberta Safety & Security regulations in effect while on InnoTech Alberta premises.
 21. This Agreement represents the entire agreement between the parties and shall supersede all prior agreements relative to this transaction.
 22. If a party's performance of any of its obligations under this Agreement (excepting only an obligation to pay) is delayed, rendered impossible or impractical, or prevented in whole or in part due to circumstances beyond its reasonable control, including but not limited to acts of God, war, terrorism, labour disputes, pandemics or epidemics, global health emergencies, or governmental action, that party will not be in breach of this Agreement due to the delay or failure in performance occasioned by such event..
 23. InnoTech Alberta may assign this Quotation to an "affiliated" (as that term is defined at Section 2 of the Business Corporations Act (Alberta)) or successor entity on written notice to the Client.
 24. This Quotation and rights and parties thereto shall be governed by and construed according to the laws of the Province of Alberta. The parties hereby submit to the jurisdiction of the Courts of Alberta.

RESULTS: Karla Reesor Peace River Area Monitoring Program Committee INVOICE: Office Manager	403 807 2995 		CLIENT SAMPLE ID PRAMP_986c-20240814		Matrix Ambient Air
			CANISTER ID: 28939 PRIORITY: Normal DESCRIPTION: NMHC Trigger		
		DATE SAMPLED: 14-Aug-24 0:40	DATE RECEIVED: 15-Aug-24		
		REPORT CREATED: 28-Aug-24	REPORT NUMBER: 24080188		
		VERSION: Version 01			

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-001	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	16-Aug-24
24080188-001	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	16-Aug-24
24080188-001	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	16-Aug-24
24080188-001	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	16-Aug-24
24080188-001	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	16-Aug-24
24080188-001	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	16-Aug-24
24080188-001	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	16-Aug-24
24080188-001	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	16-Aug-24
24080188-001	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	16-Aug-24
24080188-001	Methane		2.9 ppmv	0.1	NA-025	16-Aug-24
24080188-001	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	16-Aug-24
24080188-001	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	16-Aug-24
24080188-001	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	16-Aug-24
24080188-001	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	16-Aug-24
24080188-001	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-001	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24
24080188-001	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24

CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20240814		28939	Ambient Air	14-Aug-24	0:40
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	24080188	REPORT CREATED:	28-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-001	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-001	Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-001	Carbon disulphide		0.3 ppbv	0.2	NA-024	16-Aug-24
24080188-001	Carbonyl sulphide		1.9 ppbv	0.3	NA-024	16-Aug-24
24080188-001	Dimethyl disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24
24080188-001	Dimethyl sulphide		0.3 ppbv	0.2	NA-024	16-Aug-24
24080188-001	Ethyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-001	Ethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-001	Hydrogen sulphide	K, T, U	< 0.1 ppbv	0.1	NA-024	16-Aug-24
24080188-001	Isobutyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-001	Isopropyl mercaptan	K, T, U	< 0.1 ppbv	0.1	NA-024	16-Aug-24
24080188-001	Methyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24
24080188-001	Pentyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	16-Aug-24
24080188-001	Propyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	16-Aug-24
24080188-001	tert-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-001	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24
24080188-001	1,1,1-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	1,1,2-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	1,1-Dichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	1,1-Dichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	1,2,3-Trimethylbenzene		0.10 ppbv	0.05	AC-058	18-Aug-24
24080188-001	1,2,4-Trichlorobenzene	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-001	1,2,4-Trimethylbenzene	I	0.15 ppbv	0.03	AC-058	18-Aug-24
24080188-001	1,2-Dibromoethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24

Report certified by: Andrea Conner, Admin Assistant

Date: August 28, 2024

On behalf of: Adam Malcolm, Manager, Chemical Testing

Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at <https://directory.cala.ca/>

LAB-PRAMP-202408

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20240814		28939	Ambient Air	14-Aug-24	0:40
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	24080188	REPORT CREATED:	28-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-001	1,2-Dichlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-001	1,2-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-001	1,2-Dichloropropane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-001	1,3,5-Trimethylbenzene	I	0.04 ppbv	0.03	AC-058	18-Aug-24
24080188-001	1,3-Butadiene		0.85 ppbv	0.03	AC-058	18-Aug-24
24080188-001	1,3-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	18-Aug-24
24080188-001	1,4-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	18-Aug-24
24080188-001	1,4-Dioxane	K, T, U	< 0.5 ppbv	0.5	AC-058	18-Aug-24
24080188-001	1-Butene/Isobutylene		3.79 ppbv	0.06	AC-058	18-Aug-24
24080188-001	1-Hexene/2-Methyl-1-pentene		0.60 ppbv	0.07	AC-058	18-Aug-24
24080188-001	1-Pentene		0.92 ppbv	0.03	AC-058	18-Aug-24
24080188-001	2,2,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	2,2-Dimethylbutane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	2,3,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	2,3-Dimethylbutane	K, T, U	< 0.09 ppbv	0.09	AC-058	18-Aug-24
24080188-001	2,3-Dimethylpentane	I	0.04 ppbv	0.02	AC-058	18-Aug-24
24080188-001	2,4-Dimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-001	2-Methylheptane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	2-Methylhexane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-001	2-Methylpentane		0.14 ppbv	0.02	AC-058	18-Aug-24
24080188-001	3-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-001	3-Methylhexane	I	0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	3-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Acetone		21.1 ppbv	0.4	AC-058	18-Aug-24
24080188-001	Acrolein		2.4 ppbv	0.3	AC-058	18-Aug-24

Report certified by: Andrea Conner, Admin Assistant

Date: August 28, 2024

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at <https://directory.cala.ca/>

On behalf of: Adam Malcolm, Manager, Chemical Testing

LAB-PRAMP-202408

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Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20240814		28939	Ambient Air	14-Aug-24	0:40
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	24080188	REPORT CREATED:	28-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-001	Benzene		9.45 ppbv	0.03	AC-058	18-Aug-24
24080188-001	Benzyl chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-001	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-001	Bromoform	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Bromomethane	I	0.03 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Carbon disulfide		0.18 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Carbon tetrachloride	I	0.08 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Chlorobenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Chloroethane	I	0.09 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Chloromethane		1.06 ppbv	0.04	AC-058	18-Aug-24
24080188-001	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	cis-1,3-Dichloropropene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-001	cis-2-Butene		0.29 ppbv	0.03	AC-058	18-Aug-24
24080188-001	cis-2-Pentene	I	0.09 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Cyclohexane	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24
24080188-001	Cyclopentane	I	0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Ethanol		2.0 ppbv	0.5	AC-058	18-Aug-24
24080188-001	Ethyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-001	Ethylbenzene		0.40 ppbv	0.03	AC-058	18-Aug-24
24080188-001	Freon-11		0.28 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Freon-113	I	0.07 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-001	Freon-12		0.46 ppbv	0.03	AC-058	18-Aug-24

Report certified by: Andrea Conner, Admin Assistant

Date: August 28, 2024

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at <https://directory.cala.ca/>

On behalf of: Adam Malcolm, Manager, Chemical Testing

LAB-PRAMP-202408

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Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20240814		28939	Ambient Air	14-Aug-24	0:40
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	24080188	REPORT CREATED:	28-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-001	Hexachloro-1,3-butadiene	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-001	Isobutane		0.63 ppbv	0.03	AC-058	18-Aug-24
24080188-001	Isopentane		0.94 ppbv	0.04	AC-058	18-Aug-24
24080188-001	Isoprene		0.89 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Isopropyl alcohol	I	0.4 ppbv	0.3	AC-058	18-Aug-24
24080188-001	Isopropylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24
24080188-001	m,p-Xylene		0.71 ppbv	0.04	AC-058	18-Aug-24
24080188-001	m-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	m-Ethyltoluene	I	0.09 ppbv	0.03	AC-058	18-Aug-24
24080188-001	Methyl butyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	18-Aug-24
24080188-001	Methyl ethyl ketone		2.5 ppbv	0.3	AC-058	18-Aug-24
24080188-001	Methyl isobutyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-001	Methyl methacrylate	K, T, U	< 0.08 ppbv	0.08	AC-058	18-Aug-24
24080188-001	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-001	Methylcyclohexane	I	0.03 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Methylcyclopentane	K, T, U	< 0.05 ppbv	0.05	AC-058	18-Aug-24
24080188-001	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-001	n-Butane		2.15 ppbv	0.02	AC-058	18-Aug-24
24080188-001	n-Decane	I	0.10 ppbv	0.06	AC-058	18-Aug-24
24080188-001	n-Dodecane	I	0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-001	n-Heptane		0.40 ppbv	0.04	AC-058	18-Aug-24
24080188-001	n-Hexane		0.60 ppbv	0.03	AC-058	18-Aug-24
24080188-001	n-Octane		0.28 ppbv	0.02	AC-058	18-Aug-24
24080188-001	n-Pentane		1.08 ppbv	0.04	AC-058	18-Aug-24
24080188-001	n-Propylbenzene	I	0.08 ppbv	0.06	AC-058	18-Aug-24

Report certified by: Andrea Conner, Admin Assistant

Date: August 28, 2024

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On behalf of: Adam Malcolm, Manager, Chemical Testing

LAB-PRAMP-202408

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Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20240814		28939	Ambient Air	14-Aug-24	0:40
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	24080188	REPORT CREATED:	28-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-001	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	18-Aug-24
24080188-001	Naphthalene	I	0.4 ppbv	0.3	AC-058	18-Aug-24
24080188-001	n-Nonane		0.17 ppbv	0.04	AC-058	18-Aug-24
24080188-001	o-Ethyltoluene	I	0.06 ppbv	0.02	AC-058	18-Aug-24
24080188-001	o-Xylene		0.36 ppbv	0.03	AC-058	18-Aug-24
24080188-001	p-Diethylbenzene	I	0.04 ppbv	0.02	AC-058	18-Aug-24
24080188-001	p-Ethyltoluene	I	0.05 ppbv	0.04	AC-058	18-Aug-24
24080188-001	Styrene		0.31 ppbv	0.04	AC-058	18-Aug-24
24080188-001	Tetrachloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Tetrahydrofuran	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-001	Toluene		4.15 ppbv	0.03	AC-058	18-Aug-24
24080188-001	trans-1,2-Dichloroethylene		1.24 ppbv	0.06	AC-058	18-Aug-24
24080188-001	trans-1,3-Dichloropropylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	trans-2-Butene		0.27 ppbv	0.03	AC-058	18-Aug-24
24080188-001	trans-2-Pentene	I	0.08 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Trichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-001	Vinyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-001	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24

CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20240814 - Blank		A47802	Ambient Air	14-Aug-24	0:40
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080188	REPORT CREATED:	28-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-002	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	16-Aug-24
24080188-002	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	16-Aug-24
24080188-002	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	16-Aug-24
24080188-002	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	16-Aug-24
24080188-002	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	16-Aug-24
24080188-002	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	16-Aug-24
24080188-002	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	16-Aug-24
24080188-002	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	16-Aug-24
24080188-002	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	16-Aug-24
24080188-002	Methane	K, T, U	< 0.1 ppmv	0.1	NA-025	16-Aug-24
24080188-002	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	16-Aug-24
24080188-002	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	16-Aug-24
24080188-002	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	16-Aug-24
24080188-002	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	16-Aug-24
24080188-002	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-002	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24
24080188-002	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24
24080188-002	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-002	Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-002	Carbon disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24
24080188-002	Carbonyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-002	Dimethyl disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24
24080188-002	Dimethyl sulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24
24080188-002	Ethyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-002	Ethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24

Report certified by: Andrea Conner, Admin Assistant

Date: August 28, 2024

On behalf of: Adam Malcolm, Manager, Chemical Testing

Inquiries: (780) 632 8403

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20240814 - Blank		A47802	Ambient Air	14-Aug-24	0:40
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080188	REPORT CREATED:	28-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-002	Hydrogen sulphide	K, T, U	< 0.1 ppbv	0.1	NA-024	16-Aug-24
24080188-002	Isobutyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-002	Isopropyl mercaptan	K, T, U	< 0.1 ppbv	0.1	NA-024	16-Aug-24
24080188-002	Methyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24
24080188-002	Pentyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	16-Aug-24
24080188-002	Propyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	16-Aug-24
24080188-002	tert-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	16-Aug-24
24080188-002	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	16-Aug-24
24080188-002	1,1,1-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	1,1,2-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	1,1-Dichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	1,1-Dichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	1,2,3-Trimethylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	18-Aug-24
24080188-002	1,2,4-Trichlorobenzene	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	1,2,4-Trimethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	1,2-Dibromoethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	1,2-Dichlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	1,2-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	1,2-Dichloropropane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	1,3,5-Trimethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	1,3-Butadiene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	1,3-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	18-Aug-24
24080188-002	1,4-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	18-Aug-24
24080188-002	1,4-Dioxane	K, T, U	< 0.5 ppbv	0.5	AC-058	18-Aug-24

Report certified by: Andrea Conner, Admin Assistant

On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: August 28, 2024

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20240814 - Blank		A47802	Ambient Air	14-Aug-24	0:40
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080188	REPORT CREATED:	28-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-002	1-Butene/Isobutylene	K, T, U	< 0.06 ppbv	0.06	AC-058	18-Aug-24
24080188-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07 ppbv	0.07	AC-058	18-Aug-24
24080188-002	1-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	2,2,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	2,2-Dimethylbutane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	2,3,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	2,3-Dimethylbutane	K, T, U	< 0.09 ppbv	0.09	AC-058	18-Aug-24
24080188-002	2,3-Dimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	2,4-Dimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	2-Methylheptane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	2-Methylhexane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	2-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	3-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	3-Methylhexane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	3-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Acetone	K, T, U	< 0.4 ppbv	0.4	AC-058	18-Aug-24
24080188-002	Acrolein	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	Benzene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	Benzyl chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	Bromoform	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Bromomethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Carbon disulfide	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Carbon tetrachloride	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Chlorobenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20240814 - Blank		A47802	Ambient Air	14-Aug-24	0:40
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080188	REPORT CREATED:	28-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-002	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Chloromethane	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24
24080188-002	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	cis-1,3-Dichloropropene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Cyclohexane	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24
24080188-002	Cyclopentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Ethanol	K, T, U	< 0.5 ppbv	0.5	AC-058	18-Aug-24
24080188-002	Ethyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	Ethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	Freon-11	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Freon-113	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	Freon-12	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	Hexachloro-1,3-butadiene	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	Isobutane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	Isopentane	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24
24080188-002	Isoprene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Isopropyl alcohol	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	Isopropylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24
24080188-002	m,p-Xylene	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24
24080188-002	m-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20240814 - Blank		A47802	Ambient Air	14-Aug-24	0:40
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080188	REPORT CREATED:	28-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-002	m-Ethyltoluene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	Methyl butyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	18-Aug-24
24080188-002	Methyl ethyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	Methyl isobutyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	Methyl methacrylate	K, T, U	< 0.08 ppbv	0.08	AC-058	18-Aug-24
24080188-002	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	Methylcyclohexane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Methylcyclopentane	K, T, U	< 0.05 ppbv	0.05	AC-058	18-Aug-24
24080188-002	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	n-Butane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	n-Decane	K, T, U	< 0.06 ppbv	0.06	AC-058	18-Aug-24
24080188-002	n-Dodecane	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	n-Heptane	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24
24080188-002	n-Hexane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	n-Octane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	n-Pentane	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24
24080188-002	n-Propylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	18-Aug-24
24080188-002	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	18-Aug-24
24080188-002	Naphthalene	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	n-Nonane	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24
24080188-002	o-Ethyltoluene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	o-Xylene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	p-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	p-Ethyltoluene	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24
24080188-002	Styrene	K, T, U	< 0.04 ppbv	0.04	AC-058	18-Aug-24

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LAB-PRAMP-202408

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20240814 - Blank		A47802	Ambient Air	14-Aug-24	0:40
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	24080188	REPORT CREATED:	28-Aug-24	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
24080188-002	Tetrachloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Tetrahydrofuran	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	Toluene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	trans-1,2-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	18-Aug-24
24080188-002	trans-1,3-Dichloropropylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	trans-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Aug-24
24080188-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Trichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24
24080188-002	Vinyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Aug-24
24080188-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Aug-24



PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Revision History

Order ID	Ver	Date	Reason
24080188	01	28-Aug-24	Report created

Methods

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

List of Analytical Method IDs within InnoTech's ISO/IEC 17025:2017 CALA Scope of Accreditation

Method ID	Description
AC-013	Mercury in Waters by Cold Vapor Atomic Fluorescence Detection (CVAFS)
AC-020	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-021	Elemental Analysis Methodology of Filter-collected Airborne Particulate Matter (PM) by ICP-MS
AC-026	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-029	Procedure for the Equilibration and Weighing of Membrane Filters and PUFs on the Mettler Toledo Micro Balance
AC-035	Analysis of Glyphosate, Aminomethylphosphonic Acid and Glufosinate in Water
AC-038	Trace Metal Analysis of Water Samples by ICP-MS
AC-048	Specific Conductance (Conductivity Meter Method)
AC-049	pH (Meter Method)
AC-054	Alkalinity Total and Phenolphthalein
AC-058	Determination of Volatile Organic Compounds in Ambient Air by Gas Chromatography Mass Spectrometry
AC-060	Trace Metal Analysis of Soil Sediment and Industrial Waste Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-061	Trace Metal Analysis for Biological Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-065	Analysis of Naphthenic Acids in Water by HPLC-Orbitrap-MS analysis
AC-074	Pesticides in Water
AC-079	Alkylated PAH in Soil and Sediment
AC-080	Alkylated PAH in Water (SPE Extraction)
NA-006	Determination of BTEX, F1 Hydrocarbons and F2, F3 and F4 Hydrocarbons in Water
NA-024	Analysis of Reduced Sulfur Compounds in Air

Qualifiers

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



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Order Comments

24080188

Send results to pramptech@prampairshed.ca



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Sample Comments

Result Comments

Note:

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

Passive Sampling Analytical Results



6744 - 50 St. Edmonton AB Canada T6B 3M9

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

Bureau Veritas Job Number:

PASSIVE AIR CHAIN OF CUSTODY

Page ___ of ___

Invoice To	
Company Name	
Contact Name	
Address	
City/Postal Code	
Phone/Fax#	

Report To	
Name & Email Address	

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

Company Name	
Peace River	
Project Name/LSD	
Peace River	

ANALYTICAL INFORMATION

Analysis Required

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	SO2	H2S	NO2	O3	NH3	PM2.5	PM10	TSP	Dustfall				
1	01/07/24	7:00	30/08/24	7:00		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						X	X											
15		9:30		9:30		X	X											
Blank						X	X											
Blank						X	X											

Notes/Comments: Client 12521 / Scenario 18009

Sampled By B. Guerin Phone/Email 618/880 Received By _____ Date/Time _____ Project # 15502
Date Shipped _____ Signature _____ PO# 15425

PTC FCD-00457/4

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at <http://www.bvlabs.com/terms-and-conditions>.



Your Project #: 2024/08/01-2024/08/30
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: 2024/09/13
Report #: R3555518
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C468825

Received: 2024/09/04, 08:00

Sample Matrix: Air
Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis	13	2024/09/06	2024/09/11	PTC SOP-00150	Passive H2S in ATM
SO2 Passive Analysis	13	2024/09/04	2024/09/11	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

Rowena Geron
Customer Service Associate
13 Sep 2024 08:11:19

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

=====

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Bureau Veritas Job #: C468825
Report Date: 2024/09/13

Peace River Area Monitoring Program Committee
Client Project #: 2024/08/01-2024/08/30
Site Location: PEACE RIVER COMPLEX
Sampler Initials: BG

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		CUQ288	CUQ289	CUQ290	CUQ291	CUQ292	CUQ293	CUQ294		
Sampling Date		2024/08/01 07:00	2024/08/01 07:00	2024/08/01 07:00	2024/08/01 07:00	2024/08/01 07:00	2024/08/01 07:00	2024/08/01 07:00		
	UNITS	1	2	3	4	7	8	9	RDL	QC Batch

Passive Monitoring										
Calculated H2S	ppb	0.30	1.17	0.43	1.33	0.52	0.25	0.24	0.02	B505235
Calculated SO2	ppb	0.4	0.5	0.4	0.5	0.4	0.3	0.3	0.1	B503077

RDL = Reportable Detection Limit

Bureau Veritas ID		CUQ295	CUQ296	CUQ297	CUQ298	CUQ299	CUQ300		
Sampling Date		2024/08/01 07:00	2024/08/01 07:00	2024/08/01 07:00	2024/08/01 07:00	2024/08/01 07:00	2024/08/01 09:30		
	UNITS	10	11	12	13	14	15	RDL	QC Batch

Passive Monitoring										
Calculated H2S	ppb	0.52	1.03	0.50	0.32	0.20	0.51	0.02		B505235
Calculated SO2	ppb	0.4	0.3	0.4	0.3	0.2	0.5	0.1		B503077

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C468825

Report Date: 2024/09/13

Peace River Area Monitoring Program Committee

Client Project #: 2024/08/01-2024/08/30

Site Location: PEACE RIVER COMPLEX

Sampler Initials: BG

GENERAL COMMENTS

Travel blank result for H₂S exceeded acceptance criteria of >RDL. Possible contamination may have occurred. Sample results have been blank subtracted. 2024/09/11 SDK

Results relate only to the items tested.



Bureau Veritas Job #: C468825
Report Date: 2024/09/13

Peace River Area Monitoring Program Committee
Client Project #: 2024/08/01-2024/08/30
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
B503077	OZ	Spiked Blank	Calculated SO2			102	%	90 - 110
B503077	OZ	Method Blank	Calculated SO2		<0.1		ppb	
B505235	YYA	Spiked Blank	Calculated H2S			101	%	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.								



VALIDATION SIGNATURE PAGE

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

Steven Gloux, Senior Analyst

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End of Report