WOOD BUFFALO
ENVIRONMENTAL ASSOCIATION

Unit 3 - 805 Memorial Drive
Fort McMurray, AB T9K 0K4
P: 780.799.4420 E: info@wbea.org
wbea.org

Wood Buffalo Environmental Association

FEBRUARY 2026

MONTHLY REPORT

CONTINUOUS MONITORING

March 31, 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association

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March 31, 2026

Director, Environmental Monitoring and Evaluation Branch
Alberta Environment and Protected Areas
11th Floor, Oxbridge Place
9820 106 Street
Edmonton, Alberta T5K 2J6

RE: Monthly Ambient Air Quality Monitoring Report February 2026
Wood Buffalo Environmental Association

Enclosed is the February 2026 Ambient Air Quality Monitoring Report for the continuous ambient air quality monitoring stations of the Wood Buffalo Environmental Association (WBEA) regional air quality monitoring network. The WBEA works closely with Alberta Environment and Protected Areas (AEPA) and funding for this work was provided by the Oil Sands Monitoring Program (OSM). It is independent of any position of the OSM Program.

The continuous ambient air quality monitoring network stations are:

AMS 01 – Bertha Ganter – Fort McKay	AMS 20 – MacKay River
AMS 02 – Mildred Lake	AMS 21 – Conklin
AMS 03 – Lower Camp (Meteorology)	AMS 22 – Janvier
AMS 04 – Buffalo Viewpoint	AMS 23 – Fort Hills
AMS 05 – Mannix	AMS 25 – Waskōw ohci Pimâtisiwin
AMS 06 – Patricia McInnes	AMS 27 – Jackfish 2/3
AMS 07 – Athabasca Valley	AMS 29 – Surmont 2
AMS 08 – Fort Chipewyan	AMS 30 – Ells River
AMS 09 – Barge Landing	AMS 31 – Blackrod
AMS 11 – Lower Camp (Air Quality)	AMS 33 – Monday Creek
AMS 13 – Fort McKay South	AMS 501 – Leismer
AMS 14 – Anzac	AMS 505 – Sawbones Bay
AMS 17 - Wapasu	AMS 507 – Kirby South
AMS 18 – Stony Mountain	AMS 511 – Blackgold
AMS 19 – Firebag	

The WBEA submits this report on behalf of its members and for some members to satisfy the requirements contained in their EPEA Approvals (as amended):

Industry Operators	EPEA Approval No.
Athabasca Oil Operations	289664-01-00; 241311-01-00
Canadian Natural	153125-01-00;20809-02-00;149968-01-05; 224816-01-00; 237382-01-00; 308463-00-00
Cenovus Energy Inc.	48522-02-00; 206355-01-00
Chemtrade Logistics	404827-00-00
CNOOC International	137467-01-00, 236394-01-00
Connacher Oil and Gas Ltd.	240008-01-00
ConocoPhillips Company	48263-01-00
Greenfire Resources Operating Corporation	153105-01-00
Hammerstone Infrastructure Materials Ltd.	189942-01-00
Harvest Operations Corp.	246984-01-00
Imperial Oil Limited	46586-01-00
Inter Pipeline Limited	73203-02-00
IPC Canada Ltd.	301778-00-01
Keyera Energy Ltd.	187-03-03; 462683-00-00
MEG Energy Corp.	216466-01-00
Parsons Creek Aggregates	231302-00-00
PetroChina Canada Ltd.	254465-01-00
Suncor Energy Inc.	94-03-00; 80105-01-00; 151469-01-00; 48408-02-00
Surmont Energy	318401-00-00
Syncrude Canada Ltd.	26-03-00
Titan Tire Reclamation Corporation	364232-00-00

Government and Non-Government Organizations	
Alberta Energy Regulator	Health Canada
Alberta Environment and Protected Areas	Keyano College
Alberta Primary and Preventative Health Services	Parks Canada
Alberta Health Services	Regional Municipality of Wood Buffalo
Environment and Climate Change Canada	Lac La Biche County

Indigenous Communities	
Athabasca Chipewyan First Nation	Fort McKay Métis Nation
Chard Métis Nation	Fort McMurray 468 First Nation
Chipewyan Prairie Dene First Nation	Lakeland Métis Nation
Christina River Dene Nation Council	McMurray Métis
Conklin Métis	Mikisew Cree First Nation
Fort Chipewyan Métis Nation	Tthebatthie Denesųłiné Nation (TDN)
Fort McKay First Nation	Willow Lake Métis Nation

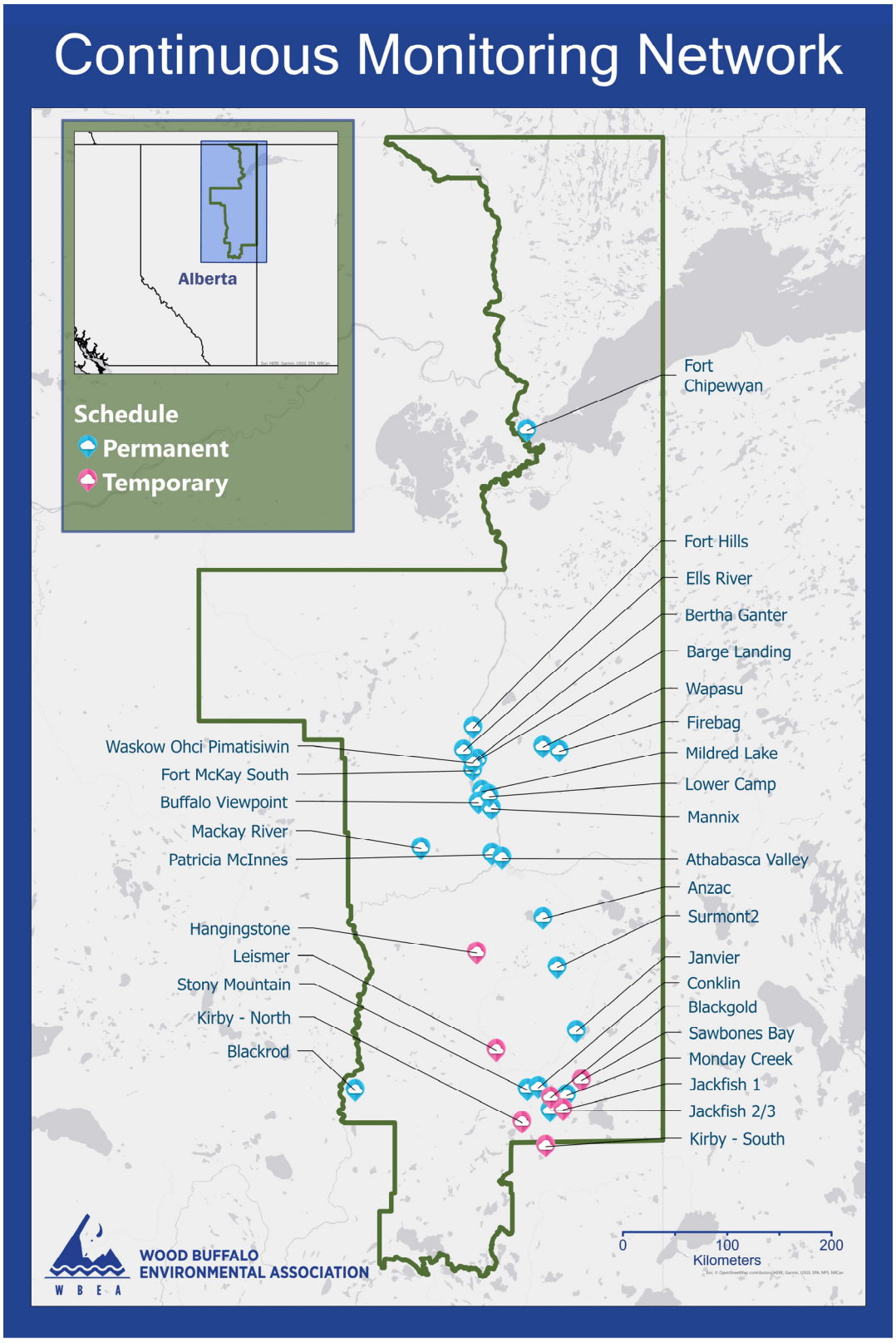


Figure 1. Map of WBEA Continuous Monitoring Network

The following operational notes are provided as per the Air Monitoring Directive requirements.

1.0 Concentrations in Excess of Alberta Ambient Air Quality Guidelines and Objectives

There were no ambient concentrations in excess of the Alberta Ambient Air Quality Objectives or Guidelines (AAAQO/AAAQG) as indicated in the Air Monitoring Directive Section RC 15-F for CO, H_2S, NH_3, NO_2, O_3, and SO_2.

There were four ambient ground-level concentrations in excess of the 1-hour $PM_{2.5}$ guideline reported to AEPA; following data validation and processing, all exceedances were confirmed.

There were three ambient ground-level concentrations in excess of the 30-minute TRS guideline reported to AEPA; following data validation and processing, two exceedances were confirmed.

Site	Parameter	Date / Time	Reference	Period	Reported	Final	Status*
Surmont 2	PM2.5	11Feb26, 20:00	450181	1-hr	143	142.9	exc
Surmont 2	PM2.5	11Feb26, 21:00	450181	1-hr	125	124.8	exc
Fort Hills	TRS	12Feb26, 02:30		30-min	5	5.4	exc
Surmont 2	PM2.5	12Feb26, 12:00	450219	1-hr	109	109.0	exc
Surmont 2	PM2.5	12Feb26, 13:00	450219	1-hr	103	103.2	exc
Fort Hills	TRS	14Feb26, 04:30		30-min	5	4.9	nae
Fort Hills	TRS	24Feb26, 02:30		30-min	8	7.6	exc

*Status legend:

late exceedance, raw values were not found to be in exceedance in real time, and/or were not reported, but final values were found to be an exceedance after data processing.

exc exceedance, raw values reported in real time were confirmed to be in exceedance after data processing.

nae not an exceedance, raw values reported in real time were found not in exceedance after data processing.

ret retracted, reported exceedance was found to be not an exceedance after investigation of measurement system status and/or validation of raw data in conjunction with all associated measurement parameters

2.0 Data Processing and Validation

Concentrations reported in near real-time are raw values. The final values are determined after processing data for reporting. For all parameters, except $PM_{2.5}$, the final 5-minute data values are determined by subtracting the daily zero responses, interpolated to the time of each raw 5-minute value, from the raw 5-minute data values. The $PM_{2.5}$ analyzers do not have the capability of performing zero's, therefore, the raw 5-minute values are validated through a comparison with associated parameters at the same, or a nearby, AMS. The final 5-minute data values are then rounded to one decimal place greater than the reporting precision indicated in the Air Monitoring Directive (AMD). The final 1-hour data values are calculated from final 5-minute data values and then rounded to reporting precision. The final 24-hour data values are calculated from the final 1-hour values.

After data processing and validation, NO_2 concentrations are re-calculated from baseline-corrected NO_X and NO concentrations. Specifically, the NO concentration is subtracted from the NO_X concentration to determine the NO_2 concentration.

2.1 Revisions to ETS Electronic Transfer System – Data and Monthly Reports

There were no revisions to historical data stored in the Electronic Transfer System with this monthly report.

3.0 Operational Status

3.1 Continuous Monitoring

In February 2026, there were 4 instances of monitoring instruments operating less than 90% of the time.

Station	Parameter	Details
AMS 8	Precipitation Gauge	The precipitation gauge at the Fort Chipewyan AMS operated less than 90% of February 2026, which is a contravention of the Air Monitoring Directive (AMD) (2016, as amended), Chapter 6, Clause DQ 4-C. This incident was reported to Alberta Environment and Protected Areas (AB EPA) on February 13, 2026 (reference number 450227). During the data validation process in January, it was identified that the data logger has not been communicating with the precipitation gauge since January 11. A non-compliance had been reported for the month of January 2026 under reference number 449502. A site visit was conducted on January 29, and it was discovered that the logger was not able to communicate with the gauge due to circuit board failure. The precipitation collector was removed from the site and returned to the WBEA Centre for repair. Following repairs, the precipitation gauge was shipped back to the Fort Chipewyan AMS. On February 11, the gauge was successfully re-installed and communication with the logger was restored. As a result of this communications failure, a total of 240 hours of precipitation data for February 2026 have been invalidated.
AMS 5	VWS/WS/WD at 20-meter	The WS/WD/VWS sensor at the 20-meter elevation at Mannix operated less than 90% of January and February 2026, which is a contravention of the Air Monitoring Directive (AMD) (2016, as amended), Chapter 6, Clause DQ 4-C. This incident was reported to Alberta Environment and Protected Areas (AB EPA) on February 24, 2026 (reference number 450480). In January and February 2026, ice fog caused intermittent flat-line readings in the WS/WD/VWS sensor at the 20-meter elevation. The sensors returned to normal operation once weather conditions improved. Following data validation, 125 hours were invalidated in January, resulting in 83% operational time for the month. For February, 153 hours of data have been invalidated as of the date of this letter, and the final operational time for the month remains under review pending completion of the data validation.
AMS 5	VWS/WS/WD at 45-meter, 75-meter, & 90-meter	The WS/WD/VWS sensor at the 45-meter, 75-meter, 90-meter elevations at Mannix operated less than 90% of February 2026, which is a contravention of the Air Monitoring Directive (AMD) (2016, as amended), Chapter 6, Clause DQ 4-C. This incident was reported to Alberta Environment and Protected Areas (AB EPA) on February 24, 2026 (reference number 450481). During February, ice fog caused intermittent flat-line readings in the WS/WD/VWS sensor at the 45-meter, 75-meter, 90-meter elevations. The sensors returned to normal operation once weather conditions improved. Following data validation: - 145 hours of data were invalidated for 45-meter - 158 hours of data were invalidated for 75-meter - 159 hours of data were invalidated for 90-meter The final operational uptime for February is currently under review and will be confirmed upon completion of the data validation process.

AMS 19	$NO_x/NO/NO_2$	The $NO/NO_2/NO_x$ analyzer at Firebag AMS (AMS19) operated less than 90% of the time in February 2026, which is a contravention of the Air Monitoring Directive (AMD) (2016, as amended), Chapter 6, Clause DQ 4-C. This incident was reported to Alberta Environment and Protected Areas (AB EPA) on March 10, 2026 (reference number 450882). The HVAC unit at the air monitoring station failed to maintain a consistent internal temperature. During routine daily system checks on February 18, fluctuating station temperatures were observed to affect the analyzer response, causing the QA check to fall outside AMD criteria. A site visit was conducted on February 20 to address the BARD unit issue and stabilize the station temperature. Once conditions were stabilized, a QA check was performed to verify the response of the $NO/NO_2/NO_x$ analyzer and normal operations resumed at 12:00 MST. During data validation, data were invalidated back to the last acceptable daily span check from February 17, resulting in 81 hours of invalidated data, which resulted in less than 88% operational uptime for February 2026.

3.2 Intermittent Monitoring

The results for time-integrated sampling of dustfall, precipitation, PAH, TSP, VOC, $PM_{2.5}$ ECOC, $PM_{2.5,}$ and PM_{10} will be submitted in the 2025 Annual Report.

3.3 General Network Notes

The Ammonia (NH_3) analyzer currently operates on a 0 to 2500 ppb operating range with a detection level of 5 ppb in the WBEA network. In data processing, values less than five ppb have been considered below detection levels and are reported as zero.

Total hydrocarbon (THC), non-methane hydrocarbon (NMHC), and methane (CH_4) measurements are collected at some air monitoring stations in the WBEA network using the Thermo Environmental model 55i direct $THC/CH_4/NMHC$ analyzer. This analyzer uses a Gas Chromatography (GC) based system, which resets the baseline value at the start of every run. This may cause the ambient background to indicate a response below the expected 1.8 ppm background level. When all measurable criteria indicate valid data during the QAQC and validation process, the data is reported without any additional flags. However, a response below the expected 1.8 ppm triggers an investigation of the analyzer to determine if there is an issue.

Monitoring notes, including changes to monitoring locations, methods, or equipment, and any reporting or monitoring irregularities, for the continuous monitoring stations, are provided on a station-by-station basis. Notes of each interrupted event are provided in chronological order, and meteorological parameters are mentioned last.

In December 2024, the Wood Buffalo Environmental Association began reporting the new Alberta Ambient Air Quality Guideline for Total Reduced Sulfur (TRS) which is a 30-minute average limit of 5 ppb to be used for odour management.

The WBEA is reporting $PM_{2.5}$ exceedances of the Alberta Ambient Air Quality Guideline and Objective (AAAQG&O) as per the Alberta Environment and Protected Areas Temporary Airshed Wildfire Bulk Reporting Protocol, effective from April 1 to October 31. This protocol requires only monthly notification of exceedances of the 24-hour AAAQO, removing the requirement for immediate notification and 7-day follow-up reports during this period. Fort Hills and Ells River air monitoring stations are included in this protocol for wildfire-related exceedances; however, for exceedances not attributed to wildfire smoke,

these stations will continue to follow their site-specific reporting protocols as directed by the Alberta Energy Regulator.

Station 1, Bertha Ganter – Fort McKay

The NH_3 analyzer required additional time to stabilize to levels below ambient concentrations following the automated daily spans and routine monthly multipoint calibrations. Additional time is required for stabilization after exposure to high concentrations of NH_3 gas, and this is an inherent behavior in the NH_3 analyzer operations due to the properties of the NH_3 gas. Data for 1-2 hours following the daily spans have been reported as invalid for a total of 30 hours this month.

Unstable operation due to excessive baseline noise of the NH_3 analyzer throughout the month resulted in 7 hours of invalid data.

Maintenance to replace support gas cylinder for the THC/NMHC/CH_4 analyzer on February 20 resulted in 2 hours of downtime.

Cleaning of the manifold on February 24 interrupted the normal operation of all gaseous analyzers except for NH_3 for 2 hours.

Unstable operation due to flatline in the analyzer output signal of the TRS analyzer from February 24 to 25 resulted in 14 hours of downtime. Subsequent maintenance to reset the analyzer on February 25 resulted in additional 1 hour of downtime.

Intermittent flatlines in the output signal of the wind sensor throughout the month resulted in 6 hours of invalid data.

Station 2, Mildred Lake

Maintenance to replace the THC/NMHC/CH_4 analyzer for preventative maintenance on February 26 and 27 resulted in 15 hours of downtime.

Flatline in the output signal of the wind sensor on February 25 and 28 resulted in 2 hours of invalid data.

Station 3, Lower Camp – Meteorology

Failure to record data of the relative humidity and temperature at 20-meter elevation throughout the month resulted in 68 hours of invalid data.

Flatline in the output signal of the vertical wind speed, wind speed, wind direction at 100-meter elevation on February 10 resulted in 6 hours of invalid data.

Flatlines in the output signal of the vertical wind speed, wind speed, wind direction at 163-meter elevation on February 4 and 5 resulted in 15 hours of invalid data.

Station 4, Buffalo Viewpoint

Failure to record data of all parameters except for the $NO_X/NO_2/NO$ analyzer on February 5 resulted in 1-2 hours of invalid data.

Maintenance to replace the $NO_X/NO_2/NO$ analyzer and left overnight to stabilize on February 5 to 6 on resulted in 19 hours of downtime.

Maintenance to replace the support gas cylinder for the $THC/NMHC/CH_4$ analyzer on February 6 resulted in 1 hour of downtime.

Station 5, Mannix

Cleaning of the manifold on February 19 interrupted the normal operation of the H_2S analyzer for 1 hour.

Flatline in the output signal of the vertical wind speed, wind speed, wind direction at 20-meter elevation throughout the month resulted in 205 hours of downtime.

Flatlines in the output signal of the vertical wind speed, wind speed, wind direction at 45-meter elevation throughout the month resulted in 146 hours of downtime.

Flatlines in the output signal of the vertical wind speed, wind speed, wind direction at 75-meter elevation throughout the month resulted in 158 hours of downtime.

Flatlines in the output signal of the vertical wind speed, wind speed, wind direction at 90-meter elevation throughout the month resulted in 159 hours of downtime.

Station 6, Patricia McInnes

The NH_3 analyzer required additional time to stabilize to levels below ambient concentrations following the automated daily spans and routine monthly multipoint calibrations. NH_3 analyzers require additional time for stabilization after being exposed to high concentrations, this is due to the physical properties of the NH_3 gas. Data for 1-2 hours following each daily span has been reported as invalid for a total of 33 hours this month.

Maintenance to replace the support gas cylinder for the $THC/NMHC/CH_4$ analyzer on February 18 resulted in 3 hours of downtime.

A flatline in the output signal of the wind sensor on February 5 resulted in 10 hours of invalid data.

Maintenance to lower the meteorological tower to defreeze the wind sensor on February 5 resulted in 3 hours of downtime.

Station 7, Athabasca Valley

Station operator activities on February 24 interrupted the normal operation of the $THC/NMHC/CH_4$ analyzer for 1 hour.

Maintenance to replace the support gas cylinder for the THC/NMHC/CH_4 analyzer on February 25 resulted in 3 hours of downtime.

Cleaning of the manifold on February 27 interrupted the normal operation of the CO, NO_X/NO_2/NO, SO_2, THC/NMHC/CH_4, and TRS analyzers for 1 hour.

Station 8, Fort Chipewyan

Sensor failure due to faulty electronics component of the precipitation gauge on February 1 through February 12 resulted in 264 hours of invalid data.

A flatline in the output signal of the wind sensor on February 4 and 14 resulted in 9 hours of invalid data.

The surface leaf wetness sensor operated out of range on February 4 resulting in 3 hours of invalid data.

Station 9, Barge Landing

Maintenance to recalibrate and verify performance of the $PM_{2.5}$ analyzer on February 26 resulted in 1 hour of downtime.

Station 11, Lower Camp

Maintenance to replace the support gas cylinder for the THC/NMHC/CH_4 analyzer on February 25 resulted in 3 hours of downtime.

Intermittent flatlines in the output signal of the wind sensor throughout the month resulted in 16 hours of invalid data.

Station 13, Fort McKay South

Station temperature dropped on February 17 and 18, resulting in unstable baseline responses and daily QA check failures. Data were invalidated back to the last acceptable daily QA check on February 17, with normal operations resuming following successful QA checks on February 19. This issue affected the normal operations of the NO/NO_2/NO_x, O_3, THC/NMHC/CH_4, and TRS for approximately 43 to 49 hours.

A faulty flow meter caused the $PM_{2.5}$ analyzer to fail its monthly calibration on February 25, the issue was rectified on February 26 when another flow meter corrected the issue. The period between the two calibrations was flagged unstable operation resulting in 27 hours of downtime.

A flatline in the output signal of the wind sensor on February 24 resulted in 1 hour of invalid data.

Note: Automated daily zero-response checks of the O3 analyzer did not meet WBEA's QC acceptance criteria for February. Therefore, the calibrator zeros from the multi-point calibrations conducted in January and February were used to validate the analyzer baseline response.

Station 14, Anzac

Maintenance to verify the daily QA check of the TRS analyzer on February 13, 18, and 24 resulted in 5 hours of downtime.

Maintenance to verify the daily QA check of the O_3 analyzer on February 20, 21, and 23 resulted in 3 hours of downtime.

Cleaning of the manifold on February 20 interrupted the normal operation of the $NO_X/NO_2/NO$, O_3, SO_2, $THC/NMHC/CH_4$, and TRS and analyzers for 1 hour.

Maintenance to lower the meteorological tower to de-ice the wind sensor on February 5 resulted in 3 hours of downtime.

Intermittent flatlines in the output signal of the wind sensor throughout the month resulted in 17 hours of invalid data.

Note: Following the replacement of the TRS calibration gas cylinder on February 12, automated daily span checks have been outside of the AMD ±10% acceptance criteria. To ensure data quality, manual span checks have been performed either remotely or on-site, all of which have demonstrated responses within AMD requirements. The slow span response may be due to the stabilization and settling of the H_2S calibration gas cylinder following installation, along with the effects of extreme cold and dry weather conditions and is likely a combination of both. WBEA continues to actively investigate and address the slow response observed during automated daily span checks to ensure consistent performance.

Note: Automated daily zero-response checks of the O_3 analyzer did not meet WBEA's QC acceptance criteria for February. Therefore, the calibrator zeros from the January, February, and March multi-point calibrations were used to validate the analyzer baseline response.

Note: The daily span check O_3 analyzers was outside the 10% AMD criteria on February 6, and 21-23 due to an interruption in the station calibrator configuration.

Station 17, Wapasu

Cleaning of the manifold on February 23 interrupted the normal operations of the H_2S and $NO_X/NO_2/NO$, O_3 analyzers for 1 hour.

Failure to record data of the $PM_{2.5}$ analyzer on February 25 resulted in 1 hour of invalid data.

Station 18, Stony Mountain

Maintenance to verify the daily QA check of the TRS analyzer on February 19 resulted in 2 hours of downtime.

Unstable operations of the $NO_X/NO/NO_2$ analyzer due to daily QA check being outside of the AMD compliance on February 22 resulted in 49 hours of invalid data.

Cleaning of the manifold on February 25 interrupted the normal operation of the O_3, SO_2, THC/NMHC/CH_4, and TRS analyzers for 1 hour.

Note: Ambient conditions such as extreme cold and dry weather affected the span check performance of the TRS analyzer, resulting in non-compliance with AMD daily QA/QC criteria on February 19, 20, and 28.

Station 19, Firebag

An internal audit on February 11 interrupted the normal operations of all air gaseous analyzers for 1 to 3 hours.

Unstable operation of the NO_X/NO/NO_2 analyzer due to daily QA check being outside of the AMD compliance from February 17 to 20 resulted in 80 hours of invalid data.

Maintenance to verify the daily QA check of the NO_X/NO/NO_2 analyzer on February 20 resulted in 1 hour of downtime.

Flatlines in the output signal of the wind sensor on February 9-10 resulted in 35 hours of invalid data.

Maintenance to lower the meteorological tower to defreeze the wind sensor on February 10 resulted in 2 hours of downtime.

Maintenance to lower the meteorological tower to replace the wind sensor on February 25 resulted in 2 hours of downtime.

Station 20, MacKay River

Maintenance to bring the meteorological tower down on February 6 interrupted the normal operation of the wind sensor for 1 hour.

Intermittent flatlines in the output signal of the wind sensor throughout the month resulted in 39 hours of invalid data.

Station 21, Conklin

No operational issues to report.

Station 22, Janvier

Cleaning of the manifold on February 27 interrupted the normal operation of the O_3, SO_2, THC/NMHC/CH_4, and TRS for 2 hours.

Flatline in the output signal of the wind sensor on February 10 and 23 resulted in 18 hours of invalid data.

Station 23, Fort Hills

Cleaning of the manifold on February 11 interrupted the normal operations of all the gaseous analyzers for 1 hour.

Station 25, Waskōw ohci Pimâtisiwin

Cleaning of the manifold on February 3 interrupted the normal operation of the H_2S analyzer for 1 hour.

Intermittent flatlines in the output signal of the wind sensor throughout the month resulted in 3 hours of invalid data.

Station 27, Jackfish 2/3

A flatline in the output signal of the wind sensor on February 7, 9 and 10 resulted in 21 hours of invalid data.

Station 29, Surmont 2

Cleaning of the manifold on February 3 interrupted the normal operation of the H_2S and $NO_X/NO_2/NO$ analyzers for 1 hour.

Intermittent flatlines in the output signal of the wind sensor throughout the month resulted in 38 hours of invalid data.

Station 30, Ells River

Cleaning of the manifold on February 13 interrupted the normal operation of all gaseous analyzers for 1 hour.

Intermittent flatlines in the output signal of the wind sensor throughout the month resulted in 3 hours of invalid data.

Station 31, Blackrod

Note: WBEA installed and calibrated the THC analyzer on February 4, 2026, at the Blackrod Ambient Air Monitoring Station (AMS31), located at the IPC Canada Ltd. SAGD facility. This monitoring activity is associated with EPEA Approval 301778-00-01.

Station power failures on February 23 and 25 interrupted the normal operation of all gaseous analyzers for 16 hours.

Station 33, Monday Creek

Maintenance to replace the $NO_X/NO/NO_2$ analyzer and subsequent stabilization on February 17 through 19 resulted in 45 hours of downtime.

Station 501, Leismer

Intermittent flatlines in the output signal of the wind sensor throughout the month resulted in 16 hours of invalid data.

Station 505, Sawbones Bay

No operational issues to report.

Station 507, Kirby South

Cleaning of the manifold on February 20 interrupted the normal operation of the H_2S, SO_2, and THC analyzers for 1 hour.

A flatline in the output signal of the wind sensor on February 7 through 9 resulted in 51 hours of invalid data.

Station 511, Blackgold

Unstable operations of the NO_X/NO/NO_2 analyzer due to station temperature fluctuation on February 18 through 19 resulted in 31 hours of invalid data.

A flatline in the output signal of the wind sensor on February 16 resulted in 1 hour of invalid data.

If additional information is required, please contact the Wood Buffalo Environmental Association at (780) 799-4420.

Yours sincerely,

Wood Buffalo Environmental Association
The representative of the Person Responsible for this monitoring program is Dianne McIsaac, Operations Manager, WBEA.

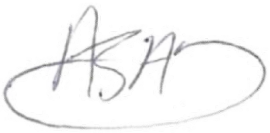
Level one (L1) data review was completed by the Field Technicians responsible for each respective air monitoring station. Level two (L2) data validation, report preparation, and submission were completed by Asad Hidayat, Denny Estador Karina Fenwick, Shawn Jansen Van Beak of WBEA. The WBEA has retained the services of Air Resource Specialists (ARS) to conduct Level three (L3) review on its behalf. Contact information for WBEA staff is included below.

Asad Hidayat, Data Lead
Wood Buffalo Environmental Association
T: (780) 215-6000
E: ahidayat@wbea.org

Denny Estador, Data Technician
Wood Buffalo Environmental Association
T: (780) 713-8510
E: destador@wbea.org

Karina Fenwick, Data Technician
Wood Buffalo Environmental Association
T: (780) 215-7499
E: kfenwick@wbea.org

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.



Asad Hidayat
Data Lead
Wood Buffalo Environmental Association
Unit 3 - 805 Memorial Drive
Fort McMurray AB T9K 0K4
www.wbea.org
T: (780) 788-5440| E: ahidayat@wbea.org

R00_2602

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION
MONTHLY AIR MONITORING SUMMARY

Created: Mar 30 2026 11:14:08

APPROVAL NUMBERS	REPORT DATE	
	MONTH	YEAR
289664-00-00	2	2026
241311-00-00		
20809-02-00		
149968-01-00		
237382-00-00		
48522-01-00		
240008-00-00		

CONTINUOUS AMBIENT MONITORING

PARAMETER	STN. NO.	% TIME OPERATIONAL	30-MIN AVERAGE		ONE-HOUR AVERAGE		24-HOUR AVERAGE	
			MAXIMUM CONCENTRATION	NO. READINGS > REGULATION	MAXIMUM CONCENTRATION	NO. READINGS > REGULATION	MAXIMUM CONCENTRATION	NO. READINGS > REGULATION
SO2(ppb)	1	100	-	-	16	0	2.8	0
SO2(ppb)	2	100	-	-	34.5	0	6.2	0
SO2(ppb)	4	100	-	-	14.1	0	1.8	0
SO2(ppb)	5	100	-	-	47.2	0	16.2	0
SO2(ppb)	6	100	-	-	10.2	0	2.9	0
SO2(ppb)	7	100	-	-	8.7	0	1.5	0
SO2(ppb)	8	100	-	-	3.4	0	1.0	0
SO2(ppb)	9	100	-	-	21.4	0	2.7	0
SO2(ppb)	11	100	-	-	19.5	0	2.1	0
SO2(ppb)	13	100	-	-	17.3	0	2.9	0
SO2(ppb)	14	100	-	-	15.0	0	3.0	0
SO2(ppb)	17	100	-	-	22.0	0	2.5	0
SO2(ppb)	18	100	-	-	9.1	0	1.5	0
SO2(ppb)	19	100	-	-	25.0	0	4.1	0
SO2(ppb)	20	100	-	-	31.2	0	3.1	0
SO2(ppb)	21	100	-	-	3.4	0	1.0	0
SO2(ppb)	22	100	-	-	5.4	0	1.9	0
SO2(ppb)	23	100	-	-	18.8	0	1.9	0
SO2(ppb)	25	100	-	-	16.7	0	2.8	0
SO2(ppb)	27	100	-	-	19.6	0	3.2	0
SO2(ppb)	29	100	-	-	6.2	0	1.6	0
SO2(ppb)	30	100	-	-	16.6	0	2.0	0
SO2(ppb)	31	98	-	-	4.3	0	1.3	0
SO2(ppb)	33	100	-	-	12.7	0	2.1	0
SO2(ppb)	501	100	-	-	29.2	0	4.6	0
SO2(ppb)	505	100	-	-	39.3	0	9.5	0
SO2(ppb)	507	100	-	-	9.6	0	2.2	0
SO2(ppb)	511	100	-	-	11.8	0	4.3	0
H2S(ppb)	1	100	-	-	1.9	0	1.1	0
H2S(ppb)	2	100	-	-	7.7	0	1.4	0
H2S(ppb)	4	100	-	-	5.8	0	1.3	0
H2S(ppb)	5	100	-	-	3.1	0	1.0	0
H2S(ppb)	11	100	-	-	2.7	0	1.1	0
H2S(ppb)	17	100	-	-	1.6	0	0.5	0
H2S(ppb)	19	100	-	-	1.3	0	0.5	0
H2S(ppb)	20	100	-	-	1.1	0	0.4	0
H2S(ppb)	25	100	-	-	1.7	0	1.0	0
H2S(ppb)	27	100	-	-	0.9	0	0.3	0
H2S(ppb)	29	100	-	-	0.6	0	0.2	0
H2S(ppb)	31	98	-	-	1.5	0	0.4	0
H2S(ppb)	33	100	-	-	0.7	0	0.3	0
H2S(ppb)	501	100	-	-	0.5	0	0.2	0
H2S(ppb)	505	100	-	-	2.8	0	1.0	0
H2S(ppb)	507	100	-	-	1.6	0	0.4	0
H2S(ppb)	511	100	-	-	0.7	0	0.2	0
TRS(ppb)	1	97	1.9	0	1.6	-	1.0	-
TRS(ppb)	6	100	2.9	0	2.5	-	0.5	-
TRS(ppb)	7	100	1.6	0	1.4	-	0.7	-
TRS(ppb)	8	100	0.4	0	0.4	-	0.2	-
TRS(ppb)	9	100	3.9	0	3.6	-	1.3	-
TRS(ppb)	13	93	3.1	0	2.4	-	1.2	-
TRS(ppb)	14	99	3.7	0	3.1	-	0.7	-
TRS(ppb)	18	100	0.7	0	0.7	-	0.5	-
TRS(ppb)	21	100	0.6	0	0.5	-	0.3	-
TRS(ppb)	22	100	1.1	0	0.9	-	0.4	-
TRS(ppb)	23	100	7.6	2	5.3	-	1.4	-
TRS(ppb)	30	100	3.4	0	3.3	-	1.0	-
THC(ppm)	1	99	0	0	3.6	-	2.9	-
THC(ppm)	2	98	0	0	5.0	-	3.0	-
THC(ppm)	4	100	0	0	3.7	-	2.5	-
THC(ppm)	5	100	0	0	4.6	-	2.5	-
THC(ppm)	6	100	0	0	3.0	-	2.1	-

APPROVAL NUMBERS	REPORT DATE MONTH	REPORT DATE YEAR
289664-00-00 241311-00-00 20809-02-00 149968-01-00 237382-00-00 48522-01-00	2	2026

CONTINUOUS AMBIENT MONITORING

APPROVAL NUMBERS	PARAMETER	STN. NO.	% TIME OPERATIONAL	30-MIN AVERAGE MAXIMUM CONCENTRATION	30-MIN AVERAGE NO. READINGS > REGULATION	ONE-HOUR AVERAGE MAXIMUM CONCENTRATION	ONE-HOUR AVERAGE NO. READINGS > REGULATION	24-HOUR AVERAGE MAXIMUM CONCENTRATION	24-HOUR AVERAGE NO. READINGS > REGULATION
240008-00-00	THC(ppm)	7	99	-	-	2.8	-	2.3	-
48263-01-00	THC(ppm)	9	100	-	-	4.5	-	3.0	-
224816-00-00	THC(ppm)	11	100	-	-	3.6	-	2.7	-
151469-01-00	THC(ppm)	13	93	-	-	3.9	-	2.9	-
189942-00-00	THC(ppm)	14	100	-	-	2.3	-	2.1	-
206355-00-00	THC(ppm)	17	100	-	-	3.1	-	2.5	-
46586-00-00	THC(ppm)	18	100	-	-	2.3	-	2.2	-
73203-02-00	THC(ppm)	19	100	-	-	2.8	-	2.4	-
216466-01-00	THC(ppm)	20	100	-	-	3.1	-	2.6	-
137467-01-00	THC(ppm)	21	100	-	-	2.4	-	2.2	-
236394-00-00	THC(ppm)	22	100	-	-	2.2	-	2.1	-
254465-00-00	THC(ppm)	23	100	-	-	9.0	-	3.9	-
094-03-00	THC(ppm)	29	100	-	-	2.6	-	2.3	-
80105-01-00	THC(ppm)	30	100	-	-	4.7	-	3.0	-
305529-00-00	THC(ppm)	31	97	-	-	15.9	-	4.3	-
318401-00-00	THC(ppm)	507	100	-	-	2.8	-	2.6	-
026-03-00	THC(ppm)	511	100	-	-	2.7	-	2.5	-
364232-00-00	O3(ppb)	1	100	-	-	43.6	0	35.0	-
228044-00-00	O3(ppb)	4	100	-	-	47.2	0	40.8	-
247548-00-00	O3(ppb)	6	100	-	-	46.8	0	43.7	-
231302-00-00	O3(ppb)	7	100	-	-	45.2	0	34.2	-
246984-01-00	O3(ppb)	8	100	-	-	40.9	0	38.2	-
153125-01-00	O3(ppb)	13	93	-	-	46.0	0	34.1	-
	O3(ppb)	14	100	-	-	46.2	0	43.3	-
	O3(ppb)	17	100	-	-	44.7	0	39.6	-
	O3(ppb)	18	100	-	-	45.6	0	44.0	-
	O3(ppb)	21	100	-	-	47.1	0	42.5	-
	O3(ppb)	22	100	-	-	47.6	0	44.6	-
	NO2(ppb)	1	100	-	-	50.7	0	32.8	-
	NO2(ppb)	4	97	-	-	51.2	0	21.8	-
	NO2(ppb)	6	100	-	-	47.7	0	19.9	-
	NO2(ppb)	7	100	-	-	44.6	0	21.3	-
	NO2(ppb)	8	100	-	-	19.8	0	5.2	-
	NO2(ppb)	9	100	-	-	53.9	0	35.8	-
	NO2(ppb)	13	94	-	-	50.0	0	28.6	-
	NO2(ppb)	14	100	-	-	32.1	0	10.0	-
	NO2(ppb)	17	100	-	-	42.3	0	18.2	-
	NO2(ppb)	18	93	-	-	12.1	0	5.4	-
	NO2(ppb)	19	88	-	-	46.8	0	17.2	-
	NO2(ppb)	20	100	-	-	34.4	0	10.1	-
	NO2(ppb)	21	100	-	-	14.0	0	5.2	-
	NO2(ppb)	22	100	-	-	12.8	0	4.9	-
	NO2(ppb)	23	100	-	-	74.9	0	37.7	-
	NO2(ppb)	27	100	-	-	27.0	0	7.2	-
	NO2(ppb)	29	100	-	-	25.4	0	8.0	-
	NO2(ppb)	30	100	-	-	53.9	0	26.1	-
	NO2(ppb)	31	98	-	-	21.9	0	8.9	-
	NO2(ppb)	33	93	-	-	33.8	0	10.8	-
	NO2(ppb)	501	100	-	-	19.2	0	6.1	-
	NO2(ppb)	505	100	-	-	34.2	0	14.8	-
	NO2(ppb)	507	100	-	-	79.6	0	19.7	-
	NO2(ppb)	511	95	-	-	17.0	0	8.0	-
	CO(ppm)	7	100	-	-	0.7	0	0.3	-
	NH3(ppb)	1	94	-	-	0.0	0	0.0	-
	NH3(ppb)	6	95	-	-	0.0	0	0.0	-
	PM2.5(ug/m3)	1	100	-	-	37.6	0	9.5	0
	PM2.5(ug/m3)	4	100	-	-	15.4	0	6.9	0
	PM2.5(ug/m3)	6	100	-	-	28.3	0	9.3	0
	PM2.5(ug/m3)	7	100	-	-	22.3	0	10.1	0
	PM2.5(ug/m3)	8	100	-	-	12.5	0	4.6	0
	PM2.5(ug/m3)	9	100	-	-	18.4	0	9.8	0
	PM2.5(ug/m3)	13	96	-	-	24.6	0	8.1	0

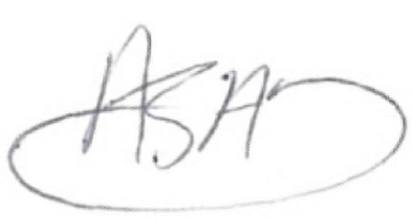
WOOD BUFFALO ENVIRONMENTAL ASSOCIATION
MONTHLY AIR MONITORING SUMMARY

Created: Mar 30 2026 11:14:08

APPROVAL NUMBERS	REPORT DATE MONTH	REPORT DATE YEAR
289664-00-00 241311-00-00 20809-02-00 149968-01-00 237382-00-00 48522-01-00	2	2026

CONTINUOUS AMBIENT MONITORING

PARAMETER	STN. NO.	% TIME OPERATIONAL	30-MIN AVERAGE MAXIMUM CONCENTRATION	30-MIN AVERAGE NO. READINGS > REGULATION	ONE-HOUR AVERAGE MAXIMUM CONCENTRATION	ONE-HOUR AVERAGE NO. READINGS > REGULATION	24-HOUR AVERAGE MAXIMUM CONCENTRATION	24-HOUR AVERAGE NO. READINGS > REGULATION
240008-00-00	PM2.5(ug/m3)	14	100	-	-	13.0	0	7.2	0
48263-01-00	PM2.5(ug/m3)	17	100	-	-	12.9	0	4.6	0
224816-00-00	PM2.5(ug/m3)	18	100	-	-	31.2	0	11.8	0
151469-01-00	PM2.5(ug/m3)	21	100	-	-	35.3	0	13.2	0
189942-00-00	PM2.5(ug/m3)	22	100	-	-	15.7	0	8.9	0
206355-00-00	PM2.5(ug/m3)	23	100	-	-	67.2	0	18.6	0
46586-00-00	PM2.5(ug/m3)	29	100	-	-	142.9	4	19.8	0
73203-02-00	PM2.5(ug/m3)	30	100	-	-	23.5	0	9.2	0
216466-01-00	WS(km/h)	1	99	-	-	-	-	-	-
137467-01-00	WS(km/h)	2	100	-	-	-	-	-	-
236394-00-00	WS(km/h)	4	100	-	-	-	-	-	-
254465-00-00	WS(km/h)	5	69	-	-	-	-	-	-
094-03-00	WS(km/h)	6	98	-	-	-	-	-	-
80105-01-00	WS(km/h)	7	100	-	-	-	-	-	-
305529-00-00	WS(km/h)	8	99	-	-	-	-	-	-
318401-00-00	WS(km/h)	9	100	-	-	-	-	-	-
026-03-00	WS(km/h)	11	98	-	-	-	-	-	-
364232-00-00	WS(km/h)	13	100	-	-	-	-	-	-
228044-00-00	WS(km/h)	14	97	-	-	-	-	-	-
247548-00-00	WS(km/h)	17	100	-	-	-	-	-	-
231302-00-00	WS(km/h)	18	100	-	-	-	-	-	-
246984-01-00	WS(km/h)	19	94	-	-	-	-	-	-
153125-01-00	WS(km/h)	20	94	-	-	-	-	-	-
	WS(km/h)	21	100	-	-	-	-	-	-
	WS(km/h)	22	97	-	-	-	-	-	-
	WS(km/h)	23	100	-	-	-	-	-	-
	WS(km/h)	25	100	-	-	-	-	-	-
	WS(km/h)	27	97	-	-	-	-	-	-
	WS(km/h)	29	94	-	-	-	-	-	-
	WS(km/h)	30	100	-	-	-	-	-	-
	WS(km/h)	31	100	-	-	-	-	-	-
	WS(km/h)	33	100	-	-	-	-	-	-
	WS(km/h)	501	98	-	-	-	-	-	-
	WS(km/h)	505	100	-	-	-	-	-	-
	WS(km/h)	507	92	-	-	-	-	-	-
	WS(km/h)	511	100	-	-	-	-	-	-



SIGNATURE OF ASSOCIATION REPRESENTATIVE

FOR ALBERTA ENVIRONMENT USE ONLY

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS01
BERTHA GANTER - FORT MCKAY
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FORT McKAY - BERTHA GANTER (AMS01)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-Min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2(ppb) Average	638	32	34	99.7	-	-	15.6	0	2.8	0
H2S(ppb) Average	637	33	35	99.7	-	-	1.9	0	1.1	0
TRS(ppb) Average	623	32	49	97.47	1.9	0	1.6	-	1	-
THC(ppm) Average	636	32	36	99.4	-	-	3.6	-	2.9	-
NMHC(ppm) Average	636	32	36	99.4	-	-	0.866	-	0.115	-
CH4(ppm) Average	636	32	36	99.4	-	-	3.5	-	2.8	-
O3 (ppb) Average	638	32	34	99.7	-	-	43.6	0	35	-
NO2 (ppb) Average	637	33	35	99.7	-	-	50.7	0	32.8	-
NO (ppb) Average	637	33	35	99.7	-	-	91.8	-	32.7	-
NOX (ppb) Average	637	33	35	99.7	-	-	138.4	-	65.5	-
NH3 (ppb) Average	599	36	73	94.49	-	-	0	0	0	-
PM2.5 (ug/m3) Average	670	2	2	100	-	-	37.6	0	9.5	0
Temperature 2 m (C) Average	672	0	0	100	-	-	10.3	-	1	-
Temperature 10 m (C) Average	672	0	0	100	-	-	10.6	-	1.5	-
Relative Humidity (%) Average	672	0	0	100	-	-	93.8	-	83.5	-
Wind Speed 10 m (km/h) Average	666	0	6	99.11	-	-	29	-	23	-
Wind Direction 10 m (deg) Average	666	0	6	99.11	-	-	-	-	-	-
Precipitation (mm) Total	672	0	0	100	-	-	1	-	4.4	-
Leaf Wetness (% of range) Average	672	0	0	100	-	-	38.8	-	10.8	-
Global Solar Radiation (W/m2) Average	672	0	0	100	-	-	503.2	-	129.5	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BERTHA GANTER FORT McKAY (AMS01)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	638	0.52	1.4	-	0	0	0	0.1	0.4	1.1	15.6
H2S (ppb) Average	637	0.36	0.3	-	0	0.1	0.1	0.2	0.5	0.8	1.9
TRS (ppb) Average	623	0.38	0.3	-	0.1	0.2	0.2	0.3	0.5	0.7	1.6
THC (ppm) Average	636	2.29	0.3	-	2	2.1	2.1	2.2	2.4	2.6	3.6
NMHC(ppm) Average	636	0.041	0.071	-	0	0	0	0	0.1	0.1	0.866
CH4(ppm) Average	636	2.25	0.2	-	2	2.1	2.1	2.2	2.3	2.5	3.5
O3 (ppb) Average	638	15.04	10.5	-	0.9	1.9	5.3	14.3	23.2	28.4	43.6
NO2 (ppb) Average	637	14.06	9.5	-	0.3	3.8	6.6	11.4	21	27.7	50.7
NO (ppb) Average	637	7.4	12.8	-	0	0	0	1.7	9.7	21.4	91.8
NOX (ppb) Average	637	21.46	19.7	-	0.3	4.3	8.2	14.9	28.6	45.5	138.4
NH3 (ppb) Average	599	0	0	-	0	0	0	0	0	0	0
PM2.5 (ug/m3) Average	670	4.44	2.7	-	1.2	2.4	3	3.7	5.2	7.1	37.6
Temperature 2 m (C) Average	672	-15.66	9.6	-	-38	-28.5	-23.1	-15.1	-9.3	-3.4	10.3
Temperature 10 m (C) Average	672	-15.65	9.7	-	-37.8	-28.4	-23	-15.3	-9.4	-3.1	10.6
Relative Humidity (%) Average	672	73.32	10.3	-	35.7	60	66.6	74.2	81	85.5	93.8
Wind Speed 10 m (km/h) Average	666	8.1	6	-	0	2	4	7	11	16	29
Wind Direction 10 m (deg) Average	666	-	-	-	-	-	-	-	-	-	-
Precipitation (mm) Total	672	-	-	23.92	-	-	-	-	-	-	-
Leaf Wetness (% of range) Average	672	3.25	2.5	-	1.3	2.3	2.6	2.7	3.2	4	38.8
Global Solar Radiation (W/m2) Average	672	58.34	105.9	-	0	0	0	0	77.7	217	503.2

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BERTHA GANTER FORT McKAY (AMS01)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
H2S, O3, NO2, SO2, THC/NMHC/CH4	24 Feb 2026 15:00	24 Feb 2026 16:00	2	Maintenance - sample manifold cleaned
THC/NMHC/CH4	20 Feb 2026 14:00	20 Feb 2026 15:00	2	Maintenance - replaced support gas cylinder
TRS	24 Feb 2026 23:00	25 Feb 2026 12:00	14	Unstable Operation - flatline in analyzer output signal
TRS	25 Feb 2026 13:00	25 Feb 2026 13:00	1	Maintenance - analyzer rebooted
NH3	07 Feb 2026 10:00	14 Feb 2026 17:00	7	Unstable Operation - excessive baseline noise
NH3	01 Feb 2026 06:00	28 Feb 2026 03:00	30	Stabilization after daily QA check
Wind Speed, Wind Direction	03 Feb 2026 18:00	25 Feb 2026 06:00	6	Flat line in sensor output signal - Sensor frozen

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Fort McKay - Bertha Ganter - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 15.6 ppb on Feb 25 16:00 Maximum Daily Average: 2.8 ppb on Feb 25

Minimum Value: 0.0 ppb on Feb 1 01:00 Minimum Daily Average: 0.0 ppb on Feb 9
Maximum Diurnal Average: 1.8 ppb at hour 14 Minimum Diurnal Average: 0.1 ppb at hour 1
Monthly Average: 0.52 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.4 P_{90} = 1.1 P_{99} = 6.4

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	32
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.8	1.1	1.3	0.6	0.5	1.2	3.2	6.0	4.5	1.3	1.1	0.3	0.3	1.4	3.1	6.5	6.3	3.4	1.9	6.5
2-Feb	0.5	0.4	Z	0.3	0.3	1.1	1.1	0.5	0.6	0.5	0.6	1.0	1.6	1.5	1.7	1.0	0.7	0.6	0.5	0.5	0.8	0.4	0.4	0.3	0.7	1.7
3-Feb	0.2	0.2	0.2	Z	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.7	1.3	0.9	0.9	0.8	0.6	0.5	0.5	0.4	1.3	0.4	1.3
4-Feb	0.7	0.7	0.7	1.2	Z	0.4	0.3	0.3	0.2	0.4	0.6	0.7	0.6	0.6	0.5	0.4	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.4	1.2
5-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	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	0.1	0.1	0.0	0.1
6-Feb	Z	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.4	0.4	0.3	0.2	0.6	1.3	0.9	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.3	1.3
7-Feb	0.0	Z	0.0	0.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8
8-Feb	0.0	0.0	Z	0.0	0.0	0.1	0.2	0.4	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
9-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.3	0.8	0.4	0.3	0.1	0.0	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.8
11-Feb	0.3	0.4	0.4	0.6	0.3	Z	0.3	0.3	0.3	0.4	0.6	0.8	1.1	1.6	1.8	0.7	0.5	0.3	0.6	0.3	0.3	0.3	0.3	0.3	0.5	1.8
12-Feb	Z	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.6	0.9	0.7	0.5	0.7	0.6	0.8	0.6	0.6	0.4	0.2	0.1	0.1	0.4	0.9
13-Feb	0.1	Z	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2
14-Feb	0.1	0.3	Z	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.4	0.4	0.8	1.5	0.9	0.8	1.1	1.0	0.8	0.5	0.2	0.1	0.0	0.0	0.5	1.5
15-Feb	0.0	0.1	0.1	Z	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
16-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
17-Feb	0.0	0.0	0.1	0.0	0.0	Z	0.1	0.2	0.2	0.2	0.3	0.4	C	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
18-Feb	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2
19-Feb	0.2	Z	0.4	0.3	0.4	0.3	0.5	0.9	1.2	1.9	3.6	3.5	3.3	3.2	2.8	1.6	0.5	0.2	0.1	0.1	0.0	0.0	0.0	0.0	1.1	3.6
20-Feb	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.7	5.1	13.0	9.1	4.0	1.2	0.2	0.2	0.9	1.1	1.4	1.5	1.2	1.7	13.0
21-Feb	0.8	0.7	0.7	Z	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.8
22-Feb	0.1	0.0	0.0	0.1	Z	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
23-Feb	0.1	0.1	0.1	0.0	0.0	Z	0.1	0.0	0.1	0.4	0.5	0.2	0.3	2.2	1.2	0.8	0.8	0.7	0.4	0.3	0.2	0.1	0.1	0.3	0.4	2.2
24-Feb	Z	0.2	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.2	0.3	0.4	0.5	M	M	5.9	2.2	1.5	0.4	0.2	0.2	0.1	0.1	0.7	5.9
25-Feb	0.0	Z	0.2	0.1	0.1	0.1	0.0	0.1	0.2	0.3	0.6	2.3	5.2	5.2	12.6	15.6	10.1	3.8	3.2	2.1	0.7	0.4	0.4	0.4	2.8	15.6
26-Feb	0.2	0.3	Z	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
27-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.2
28-Feb	0.2	0.1	0.2	0.3	Z	0.5	0.5	0.6	0.8	1.2	1.8	2.4	4.7	9.8	2.2	1.4	0.8	0.7	0.7	0.7	0.5	0.4	0.3	0.3	1.3	9.8
	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.6	1.1	1.8	1.5	1.2	0.9	0.5	0.4	0.3	0.3	0.4	0.4	0.3	Diurnal Average	
	0.8	0.7	0.7	1.2	0.8	1.1	1.1	1.1	1.3	1.9	3.6	3.5	5.2	13.0	12.6	15.6	10.1	3.8	3.2	2.1	3.1	6.5	6.3	3.4	Diurnal Maximum	

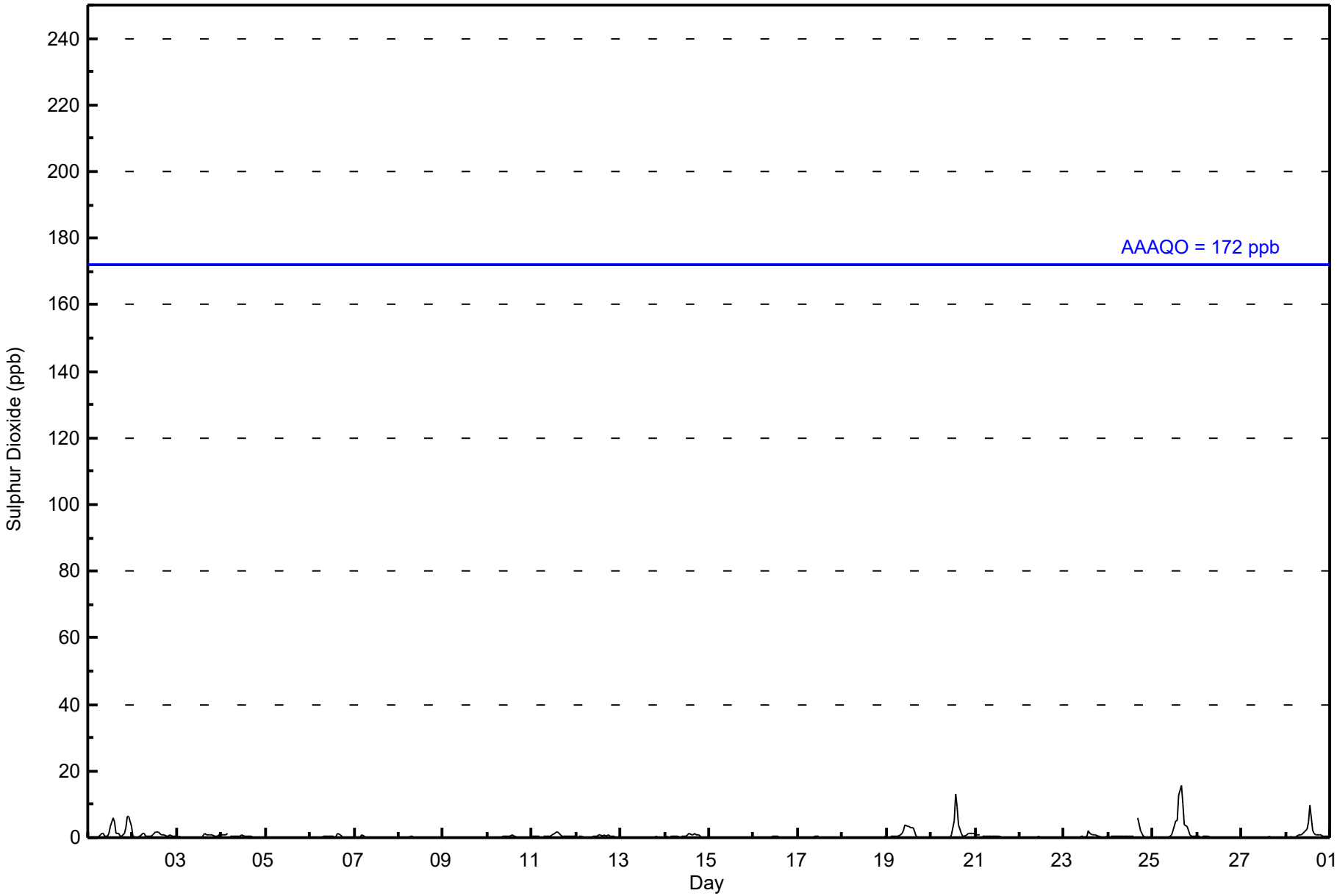
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	635	99.53	99.53
11 - 20	3	0.47	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	131	129	35	18	8	1	11	59	118	21	24	9	14	15	16	20	629
11 - 20	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	3
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	131	129	35	18	8	2	11	60	119	21	24	9	14	15	16	20	632

Total Number of Valid Hours: 632

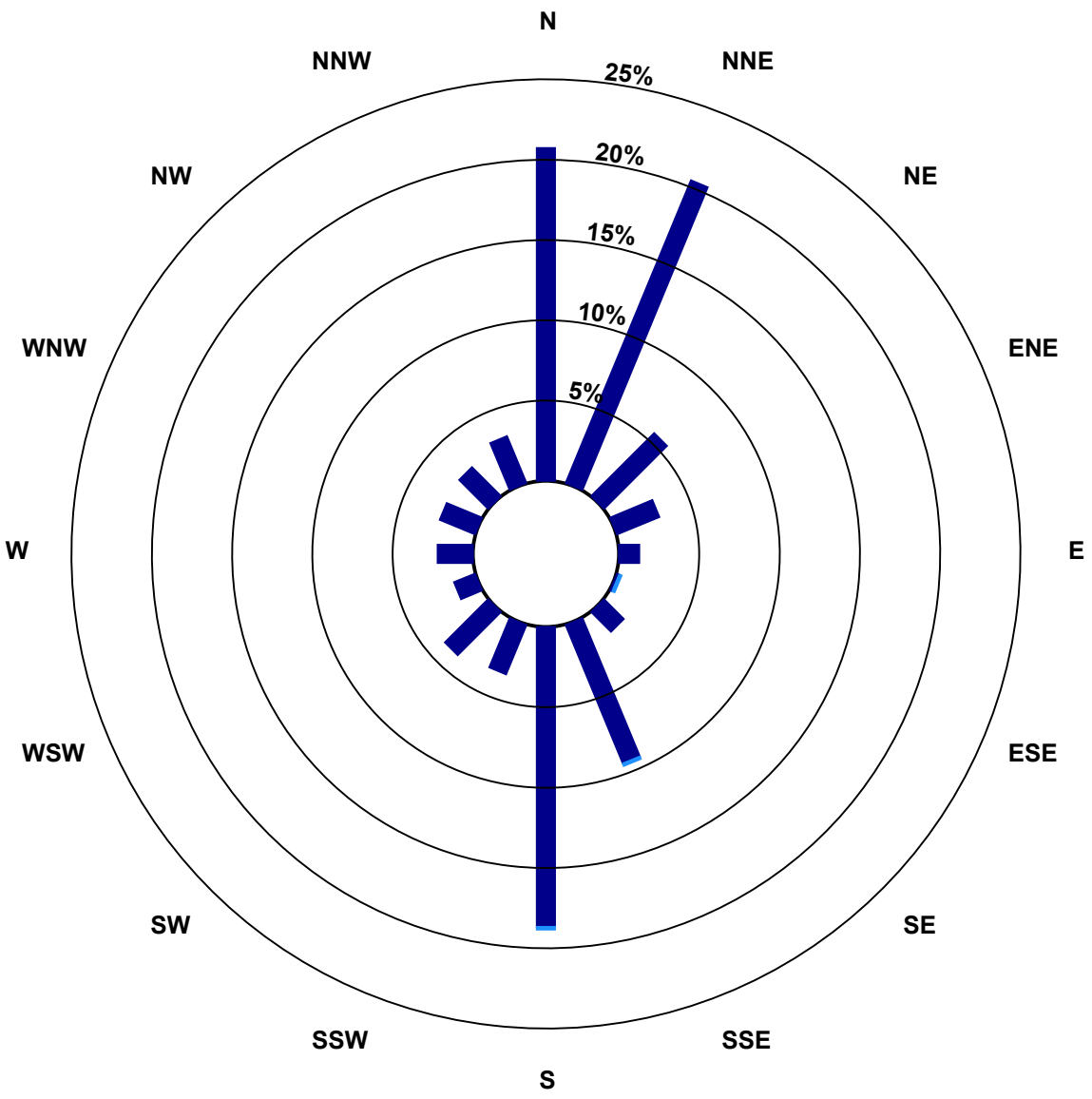
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Fort McKay - Bertha Ganter



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

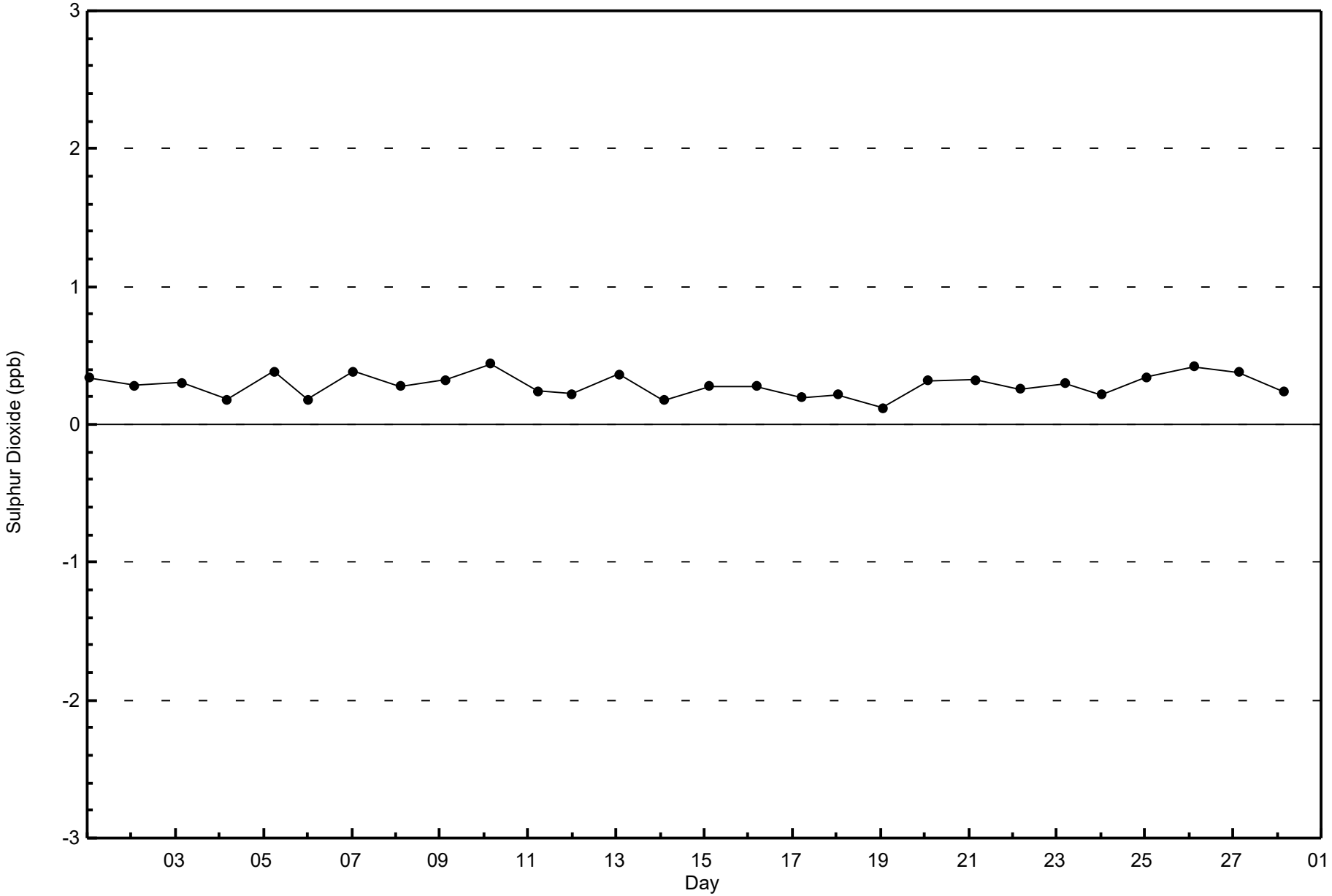
Total Number of Valid Hours: 632

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Fort McKay - Bertha Ganter - February 2026

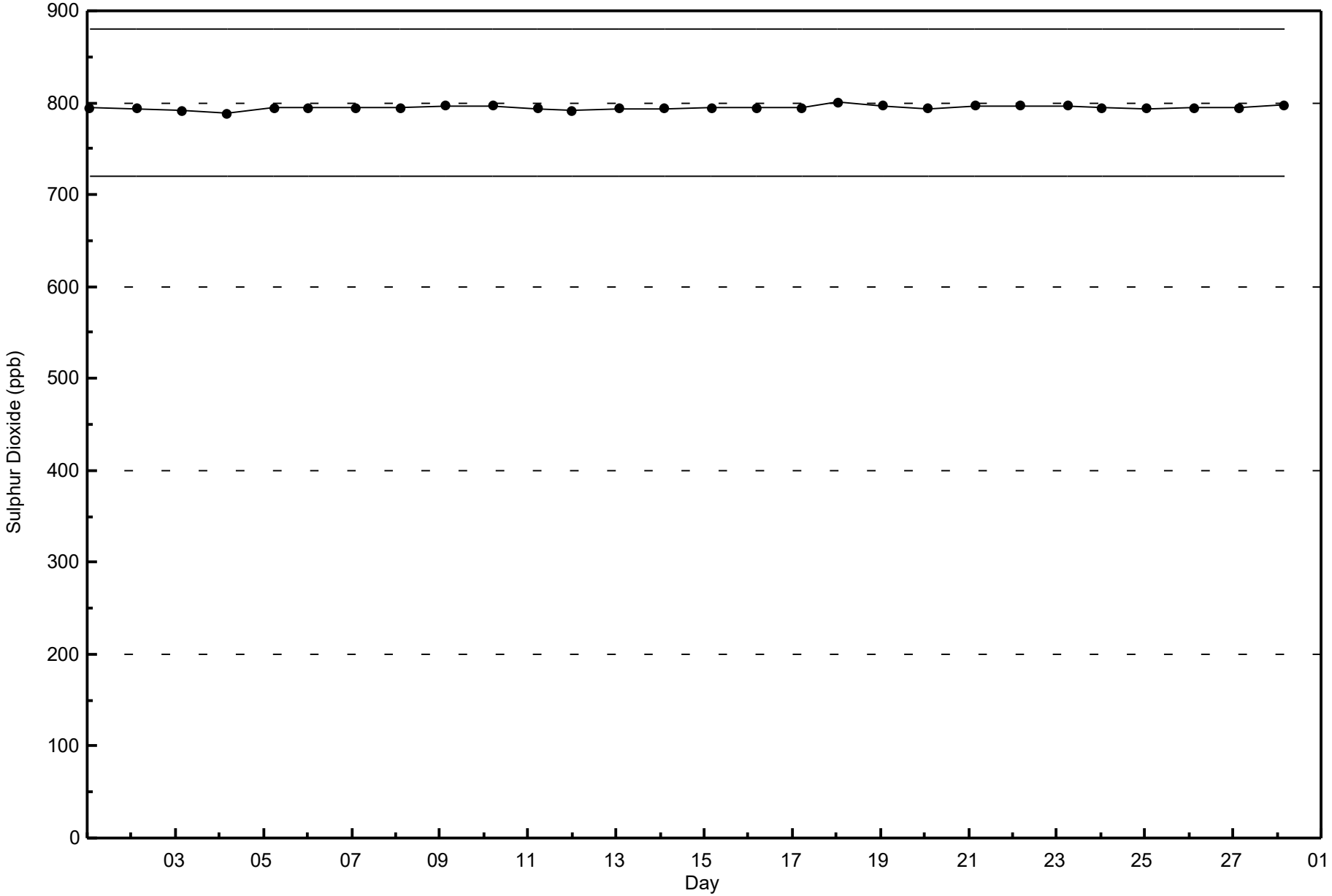


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Fort McKay - Bertha Ganter - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 1.9 ppb on Feb 14 17:00 Maximum Daily Average: 1.1 ppb on Feb 11

Minimum Value: 0.0 ppb on Feb 26 20:00 Minimum Daily Average: 0.1 ppb on Feb 18
Maximum Diurnal Average: 0.5 ppb at hour 11 Minimum Diurnal Average: 0.3 ppb at hour 2
Monthly Average: 0.36 ppb Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.1 Median = 0.2 Q_3 = 0.5 P_{90} = 0.8 P_{99} = 1.4

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	33
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.4
2-Feb	0.1	0.0	0.0	Z	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.4	1.0	0.4	0.3	0.3	0.3	1.0
3-Feb	0.3	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.4
4-Feb	0.1	0.1	0.1	0.1	0.3	Z	0.2	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
5-Feb	Z	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.8	0.2	0.8
6-Feb	0.9	Z	0.4	0.4	0.4	0.4	0.6	0.8	0.8	1.0	0.9	0.8	0.8	0.5	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.5	1.0
7-Feb	0.4	0.4	Z	0.5	0.4	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.5
8-Feb	0.2	0.2	0.2	Z	0.3	0.6	0.7	0.7	0.5	0.5	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.7
9-Feb	0.1	0.1	0.2	0.2	Z	0.2	0.5	0.4	0.5	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
10-Feb	0.3	0.3	0.3	0.3	0.4	Z	0.3	0.5	0.6	0.6	0.5	0.6	0.7	1.1	0.8	0.5	0.5	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	1.1
11-Feb	Z	0.9	1.1	1.7	1.4	1.4	1.2	1.3	1.5	1.3	1.3	1.0	0.8	1.3	1.5	0.5	0.8	0.6	1.0	0.7	1.4	0.9	0.6	0.5	1.1	1.7
12-Feb	0.4	Z	0.6	0.5	0.3	0.3	0.2	0.1	0.3	0.5	0.6	0.7	C	C	C	C	C	0.2	0.1	0.6	0.7	0.0	0.1	0.1	0.3	0.7
13-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.7	0.6	0.1	0.7
14-Feb	0.5	0.5	0.5	Z	1.6	1.3	1.2	1.2	1.0	1.1	1.3	1.2	1.4	1.2	1.0	0.8	1.9	1.5	1.4	0.9	0.5	0.3	0.3	0.3	1.0	1.9
15-Feb	0.4	0.4	0.4	0.4	Z	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.5	0.3	0.2	0.2	0.2	0.3	0.5	0.4	0.4	0.3	0.5
16-Feb	0.4	0.4	0.3	0.3	0.2	Z	0.3	0.3	0.2	0.3	0.7	0.9	0.7	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.9
17-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1
18-Feb	0.1	Z	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.2
19-Feb	0.2	0.3	Z	0.8	1.0	0.8	0.9	0.6	0.7	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.1	0.1	0.2	0.4	0.5	0.4	0.5	0.7	0.5	1.0
20-Feb	0.6	0.5	0.6	Z	0.6	0.5	0.5	0.6	0.6	0.7	0.8	0.6	1.3	1.3	0.7	0.7	0.8	0.4	0.2	0.1	0.2	0.2	0.2	0.2	0.6	1.3
21-Feb	0.2	0.3	0.3	0.3	Z	0.3	0.2	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.4
22-Feb	0.1	0.2	0.1	0.1	0.1	Z	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.4
23-Feb	Z	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.8	0.7	0.7	0.4	0.4	0.5	0.7	0.7	0.6	0.5	0.4	0.4	0.5	0.4	0.8
24-Feb	0.5	Z	0.7	0.9	0.9	1.1	1.2	1.3	1.4	1.2	0.9	0.9	0.8	0.4	M	M	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.7	1.4
25-Feb	0.3	0.2	Z	0.3	0.3	0.2	0.3	0.4	0.4	0.5	1.2	0.6	0.6	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.4	0.2	0.2	0.2	0.5	1.2
26-Feb	0.2	0.2	0.2	Z	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3
27-Feb	0.1	0.0	0.0	0.1	Z	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2
28-Feb	0.3	0.3	0.3	0.3	0.4	Z	0.9	0.9	0.7	1.0	0.6	0.4	0.8	0.6	0.2	0.1	0.1	0.1	0.3	0.8	0.8	0.5	0.5	0.9	0.5	1.0
	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	Diurnal Average	
	0.9	0.9	1.1	1.7	1.6	1.4	1.2	1.3	1.5	1.3	1.3	1.2	1.4	1.3	1.5	0.9	1.9	1.5	1.4	0.9	1.4	0.9	0.7	0.9	Diurnal Maximum	

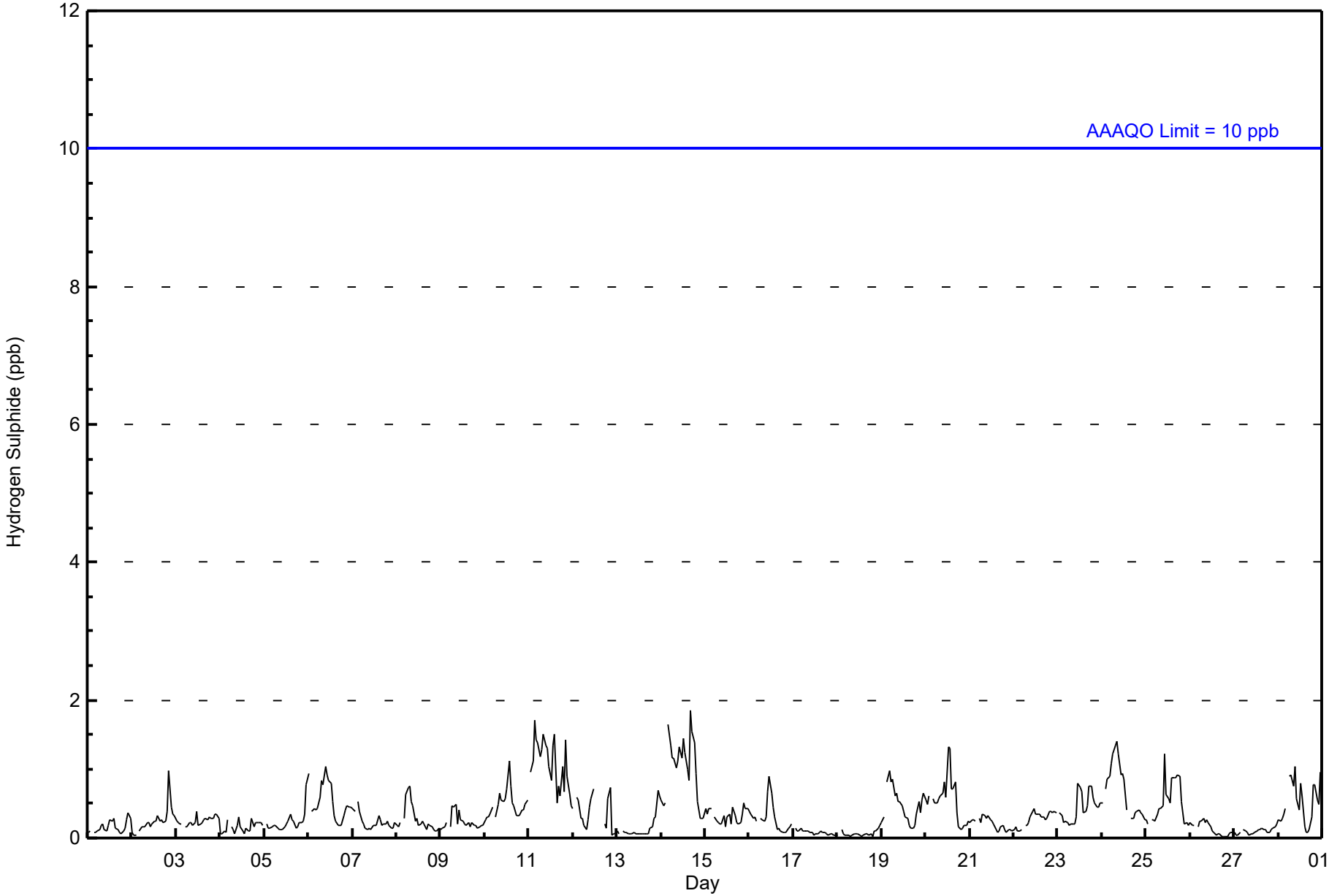
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Fort McKay - Bertha Ganter - February 2026



Hydrogen Sulphide (H_2S) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	637	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	135	129	36	18	7	3	10	59	114	22	26	8	14	14	15	21	631
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	135	129	36	18	7	3	10	59	114	22	26	8	14	14	15	21	631

Total Number of Valid Hours: 631

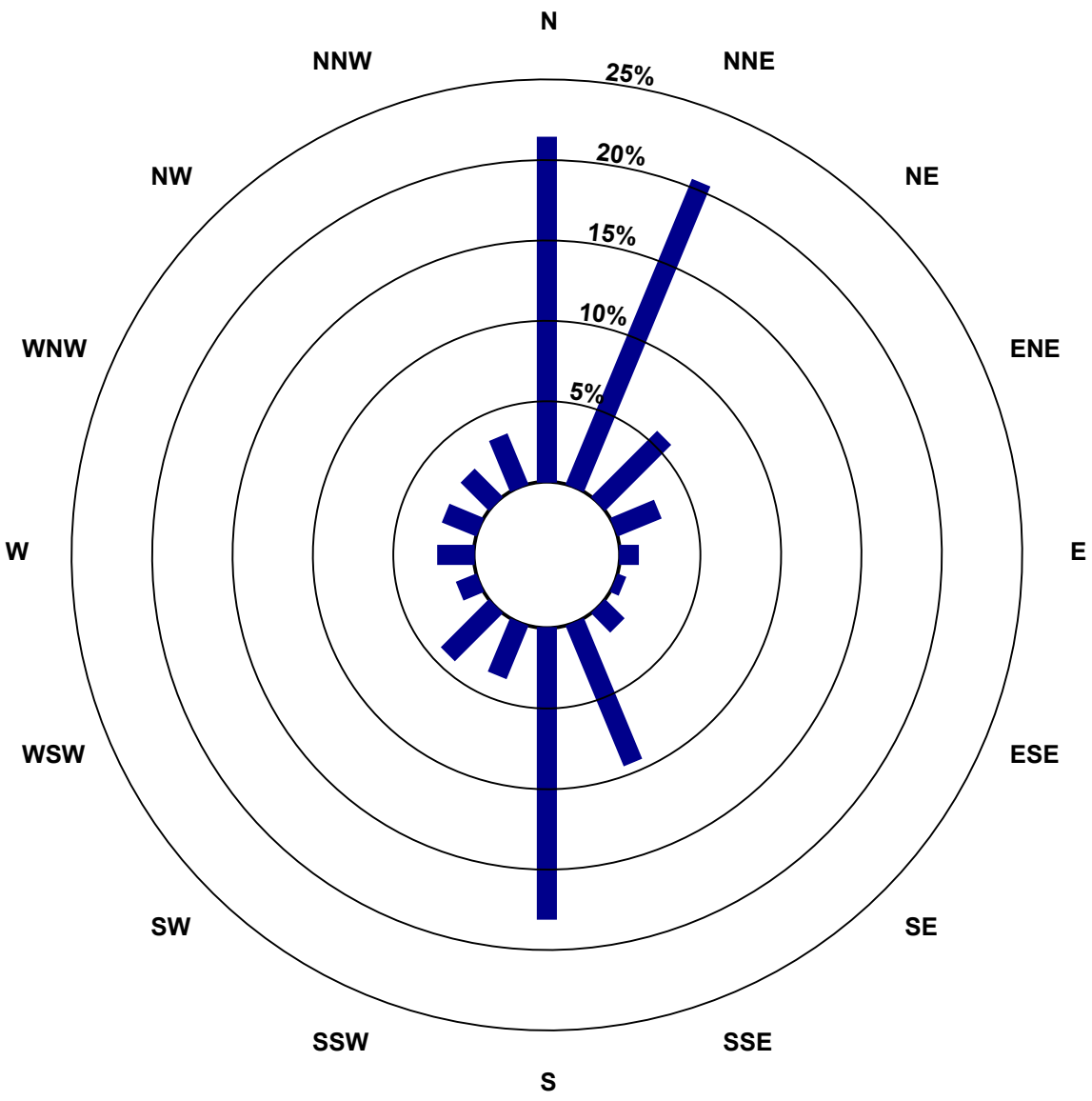
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Fort McKay - Bertha Ganter



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

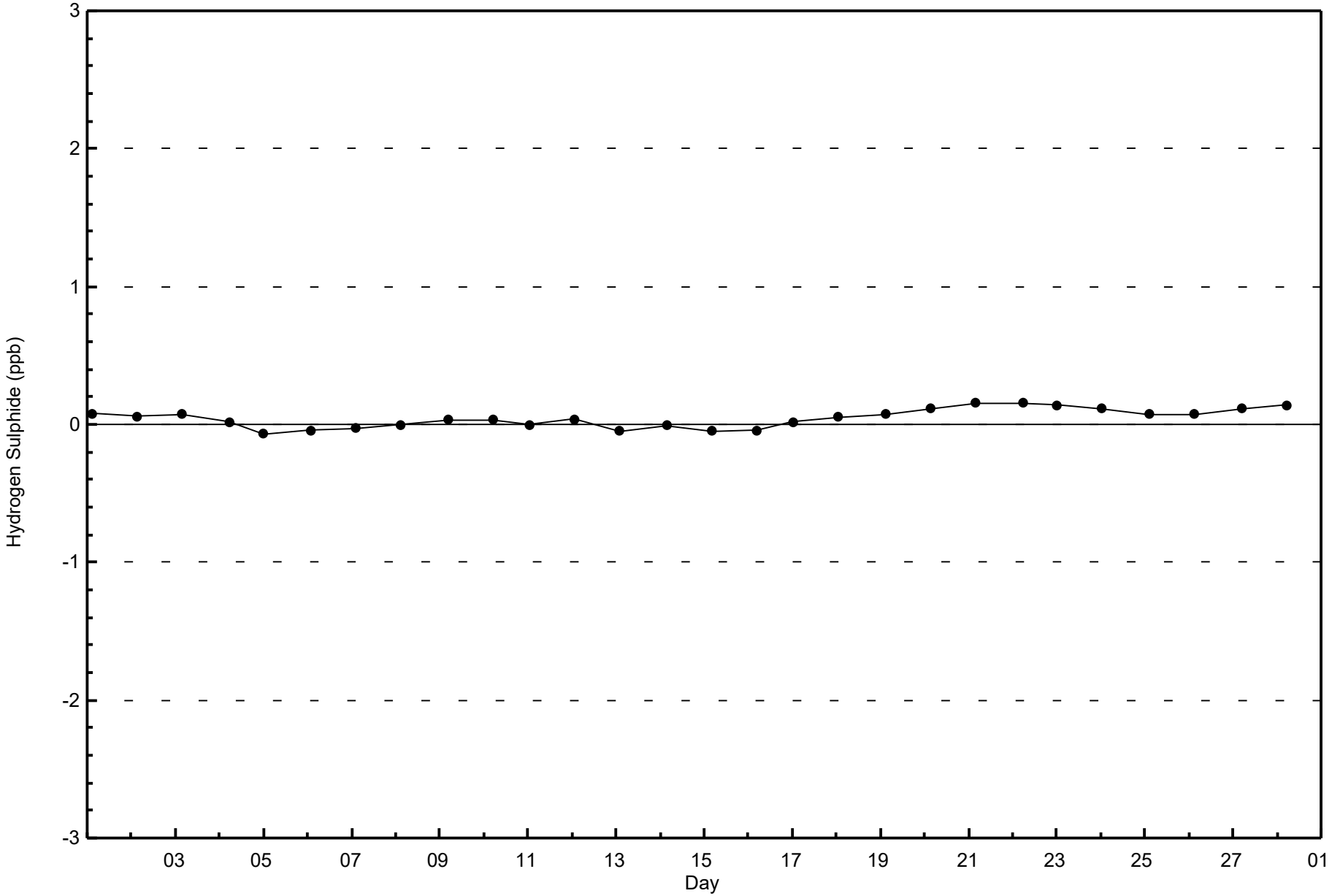
Total Number of Valid Hours: 631

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Fort McKay - Bertha Ganter - February 2026

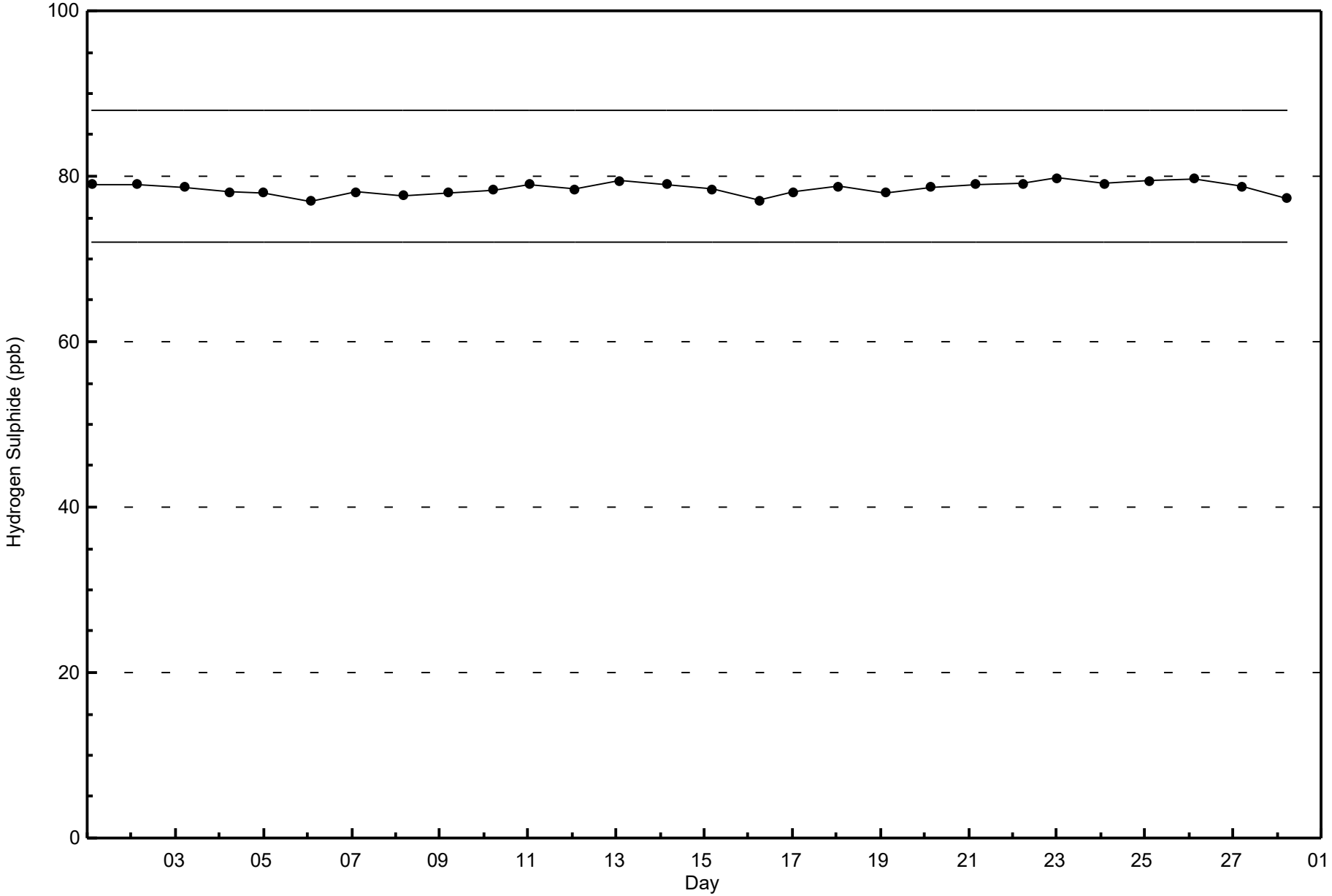


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Fort McKay - Bertha Ganter - February 2026

Number of Exceedences (AAAQG): 30-Min: 0

Maximum Value: 1.9 ppb on Feb 14 17:00

Maximum Daily Average: 1.0 ppb on Feb 11

Minimum Value: 0.1 ppb on Feb 12 08:00

Minimum Daily Average: 0.2 ppb on Feb 18

Maximum Diurnal Average: 0.5 ppb at hour 14

Minimum Diurnal Average: 0.3 ppb at hour 2

Monthly Average: 0.38 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.2 Q_1 = 0.2 Median = 0.3 Q_3 = 0.5 P_{90} = 0.7 P_{99} = 1.4

Periods in Service:	1344
Periods of Valid Data:	1247
Periods of Invalid Data:	97
Periods of Calibration:	64
Percent Operational Time:	97.5

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.5	0.4	0.3	0.5
	0.2	0.2	SP	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.5	0.5	0.2		
2-Feb	0.2	0.2	0.1	Z	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.4	0.7	0.5	0.3	0.4	0.3	0.8
	0.2	0.1	0.1	SP	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.5	0.8	0.4	0.4	0.3		
3-Feb	0.3	0.3	0.3	0.2	Z	0.2	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.5
	0.3	0.3	0.3	0.4	SP	0.2	0.3	0.3	0.3	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.3		
4-Feb	0.2	0.2	0.2	0.2	0.3	Z	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.6
	0.2	0.2	0.2	0.2	0.6	SP	0.3	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.3	0.3	0.3	0.3		
5-Feb	Z	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.6	0.4	0.5	0.2	0.3	0.3	0.3	0.3	0.4	0.8	0.3	1.0
	SP	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.5	1.0		
6-Feb	1.1	Z	0.4	0.5	0.4	0.4	0.5	0.7	0.5	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.5	0.5	1.1
	0.9	SP	0.5	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.4	0.5	0.5	0.5	0.5		
7-Feb	0.5	0.5	Z	0.4	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.6
	0.4	0.4	SP	0.6	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3		
8-Feb	0.3	0.2	0.2	Z	0.3	0.4	0.7	0.5	0.5	0.5	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.8
	0.3	0.2	0.3	SP	0.3	0.8	0.6	0.4	0.4	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2		
9-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.3	0.5	0.5	0.3	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.6
	0.2	0.2	0.2	0.2	SP	0.2	0.6	0.4	0.6	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3		
10-Feb	0.3	0.3	0.3	0.3	0.4	Z	0.3	0.4	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.5	0.6	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	1.2
	0.3	0.3	0.3	0.3	0.4	SP	0.4	0.5	0.6	0.5	0.6	0.6	0.6	1.2	0.6	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.5		
11-Feb	Z	0.5	0.8	1.6	1.3	1.3	1.2	1.2	1.4	1.4	1.3	1.1	0.9	1.0	1.8	0.4	0.8	0.5	0.9	0.6	1.6	1.0	0.5	0.3	1.0	1.8
	SP	0.7	0.9	1.5	1.4	1.4	1.1	1.3	1.5	1.2	1.3	0.9	0.8	1.8	1.3	0.7	0.7	0.7	1.1	0.6	1.4	0.7	0.4	0.3		
12-Feb	0.3	Z	0.5	0.5	0.3	0.2	0.2	0.1	0.1	0.3	0.4	0.3	C	C	C	C	C	0.3	0.2	0.3	1.1	0.1	0.1	0.1	0.3	1.1
	0.3	SP	0.6	0.4	0.2	0.2	0.1	0.1	0.2	0.4	0.6	C	C	C	C	C	0.4	0.3	0.2	1.0	0.6	0.1	0.1	0.1		
13-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.4	0.3	0.8	0.7	0.2	0.8
	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.4	0.8	0.6		
14-Feb	0.6	0.5	0.5	Z	1.4	1.4	1.2	1.1	1.0	1.1	1.2	1.1	1.3	1.2	1.1	0.8	1.0	1.1	0.8	0.6	0.5	0.3	0.3	0.3	0.9	1.9
	0.6	0.5	0.7	SP	1.7	1.2	1.1	1.1	1.0	1.1	1.2	0.9	1.0	1.2	0.9	0.9	1.9	1.0	0.7	0.6	0.4	0.3	0.3	0.3		
15-Feb	0.5	0.4	0.6	0.5	Z	0.4	0.3	0.3	0.3	0.3	0.5	0.2	0.3	0.4	0.3	0.3	0.5	0.3	0.2	0.2	0.4	0.5	0.5	0.4	0.4	0.7
	0.4	0.4	0.5	0.5	SP	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.2	0.7	0.3	0.3	0.2	0.3	0.4	0.6	0.4	0.4		

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Fort McKay - Bertha Ganter - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	0.4	0.3	0.3	0.3	0.3	Z	0.3	0.3	0.3	0.3	0.4	0.6	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.7
	0.3	0.4	0.3	0.3	0.3	SP	0.3	0.3	0.3	0.3	0.6	0.7	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
17-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2
	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1		
18-Feb	0.1	Z	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
	0.2	SP	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2		
19-Feb	0.2	0.2	Z	0.7	0.8	0.6	0.7	0.5	0.7	0.5	0.6	0.7	0.5	0.6	0.5	0.4	0.3	0.2	0.2	0.3	0.6	0.4	0.6	0.6	0.5	0.8
	0.2	0.4	SP	0.6	0.8	0.7	0.7	0.6	0.6	0.5	0.7	0.6	0.6	0.6	0.5	0.4	0.2	0.2	0.2	0.4	0.6	0.4	0.6	0.7		
20-Feb	0.6	0.5	0.6	Z	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6	1.1	1.3	1.0	0.6	0.8	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.6	1.4
	0.5	0.6	0.7	SP	0.5	0.5	0.5	0.5	0.5	0.6	0.9	0.5	1.4	1.3	0.8	0.8	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.3		
21-Feb	0.2	0.3	0.3	0.3	Z	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
	0.3	0.3	0.3	0.3	SP	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
22-Feb	0.2	0.2	0.2	0.2	0.1	Z	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
	0.2	0.2	0.1	0.2	0.2	SP	0.3	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
23-Feb	Z	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.7	0.8	0.9	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.9
	SP	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.4	0.8	0.6	0.6	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.4	0.4	0.5		
24-Feb	0.5	Z	0.5	0.7	0.6	0.8	0.9	1.0	1.0	0.9	0.8	0.8	0.9	0.5	0.4	M	0.3	0.3	0.4	0.4	0.4	0.3	UO	UO	0.6	1.0
	0.4	SP	0.5	0.6	0.7	0.9	0.9	1.0	1.0	0.9	0.8	0.9	0.7	0.4	M	M	0.3	0.4	0.4	0.4	0.4	0.4	UO	UO		
25-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	0.6	0.8	0.9	1.0	0.6	0.8	0.6	0.4	0.3	0.3	0.3	--	1.0
	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	0.8	0.5	0.9	0.9	0.8	1.0	0.7	0.4	0.3	0.3	0.3	0.3		
26-Feb	0.3	0.3	0.2	Z	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.4
	0.3	0.2	0.2	SP	0.2	0.3	0.2	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2		
27-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3		
28-Feb	0.3	0.3	0.3	0.3	0.3	Z	0.5	0.7	0.6	1.0	0.6	0.4	0.7	0.7	0.3	0.2	0.2	0.2	0.2	0.8	0.9	0.7	0.5	0.9	0.5	1.1
	0.3	0.3	0.3	0.3	0.4	SP	0.6	0.7	0.6	1.0	0.5	0.5	0.9	0.5	0.2	0.2	UO	0.2	0.5	0.9	0.8	0.6	0.5	1.1		
	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.4	Diurnal Average	
	1.1	0.7	0.9	1.6	1.7	1.4	1.2	1.3	1.5	1.4	1.3	1.1	1.4	1.8	1.8	0.9	1.9	1.1	1.1	1.0	1.6	1.0	0.8	1.1	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance UO - Unstable Operation SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Fort McKay - Bertha Ganter - February 2026

Maximum Value: 1.6 ppb on Feb 11 15:00

Maximum Daily Average: 1.0 ppb on Feb 11

Minimum Value: 0.1 ppb on Feb 12 08:00

Minimum Daily Average: 0.2 ppb on Feb 18

Maximum Diurnal Average: 0.5 ppb at hour 14

Minimum Diurnal Average: 0.3 ppb at hour 2

Monthly Average: 0.38 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.2 Q_1 = 0.2 Median = 0.3 Q_3 = 0.5 P_{90} = 0.7 P_{99} = 1.4

Hours in Service:	672
Hours of Data:	623
Hours of Missing Data:	49
Hours of Calibration:	32
Percent Operational Time:	97.5

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.4	0.5	0.3	0.3	0.5
2-Feb	0.2	0.2	0.1	Z	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.4	0.7	0.4	0.3	0.3	0.3	0.7
3-Feb	0.3	0.3	0.3	0.3	Z	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4
4-Feb	0.2	0.2	0.2	0.2	0.4	Z	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
5-Feb	Z	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.9	0.3	0.9
6-Feb	1.0	Z	0.4	0.4	0.4	0.4	0.5	0.7	0.5	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	1.0
7-Feb	0.5	0.4	Z	0.5	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.5
8-Feb	0.3	0.2	0.2	Z	0.3	0.6	0.7	0.5	0.5	0.4	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.7
9-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.4	0.4	0.5	0.3	0.5	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.5
10-Feb	0.3	0.3	0.3	0.3	0.4	Z	0.3	0.5	0.6	0.5	0.5	0.6	0.6	1.0	0.7	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	1.0
11-Feb	Z	0.6	0.8	1.5	1.3	1.3	1.2	1.2	1.5	1.3	1.3	1.0	0.8	1.4	1.6	0.5	0.7	0.6	1.0	0.6	1.5	0.9	0.5	0.3	1.0	1.6
12-Feb	0.3	Z	0.5	0.4	0.2	0.2	0.1	0.1	0.2	0.4	0.5	0.6	C	C	C	C	C	0.3	0.2	0.6	0.8	0.1	0.1	0.1	0.3	0.8
13-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.4	0.8	0.7	0.2	0.8
14-Feb	0.6	0.5	0.6	Z	1.5	1.3	1.2	1.1	1.0	1.1	1.2	1.0	1.1	1.2	1.0	0.8	1.5	1.0	0.7	0.6	0.5	0.3	0.3	0.3	0.9	1.5
15-Feb	0.5	0.4	0.5	0.5	Z	0.4	0.3	0.3	0.3	0.3	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.3	0.2	0.3	0.4	0.5	0.5	0.4	0.4	0.5
16-Feb	0.4	0.3	0.3	0.3	0.3	Z	0.3	0.3	0.3	0.3	0.5	0.7	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.7
17-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2
18-Feb	0.2	Z	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
19-Feb	0.2	0.3	Z	0.7	0.8	0.7	0.7	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.2	0.4	0.6	0.4	0.6	0.7	0.5	0.8
20-Feb	0.6	0.5	0.6	Z	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.6	1.3	1.3	0.9	0.7	0.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.6	1.3
21-Feb	0.3	0.3	0.3	0.3	Z	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
22-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
23-Feb	Z	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.8	0.7	0.7	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.8
24-Feb	0.5	Z	0.5	0.6	0.6	0.8	0.9	1.0	1.0	0.9	0.8	0.9	0.8	0.4	M	M	0.3	0.3	0.4	0.4	0.4	0.3	UO	UO	0.6	1.0
25-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	0.5	0.9	0.9	0.9	0.8	0.7	0.5	0.4	0.3	0.3	0.3	--	0.9
26-Feb	0.3	0.3	0.2	Z	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3
27-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3
28-Feb	0.3	0.3	0.3	0.3	0.3	Z	0.6	0.7	0.6	1.0	0.5	0.4	0.8	0.6	0.3	0.2	0.2	0.2	0.4	0.8	0.9	0.6	0.5	1.0	0.5	1.0
	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.4	Diurnal Average	
	1.0	0.6	0.8	1.5	1.5	1.3	1.2	1.2	1.5	1.3	1.3	1.0	1.3	1.4	1.6	0.9	1.5	1.0	1.0	0.8	1.5	0.9	0.8	1.0	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance UO - Unstable Operation

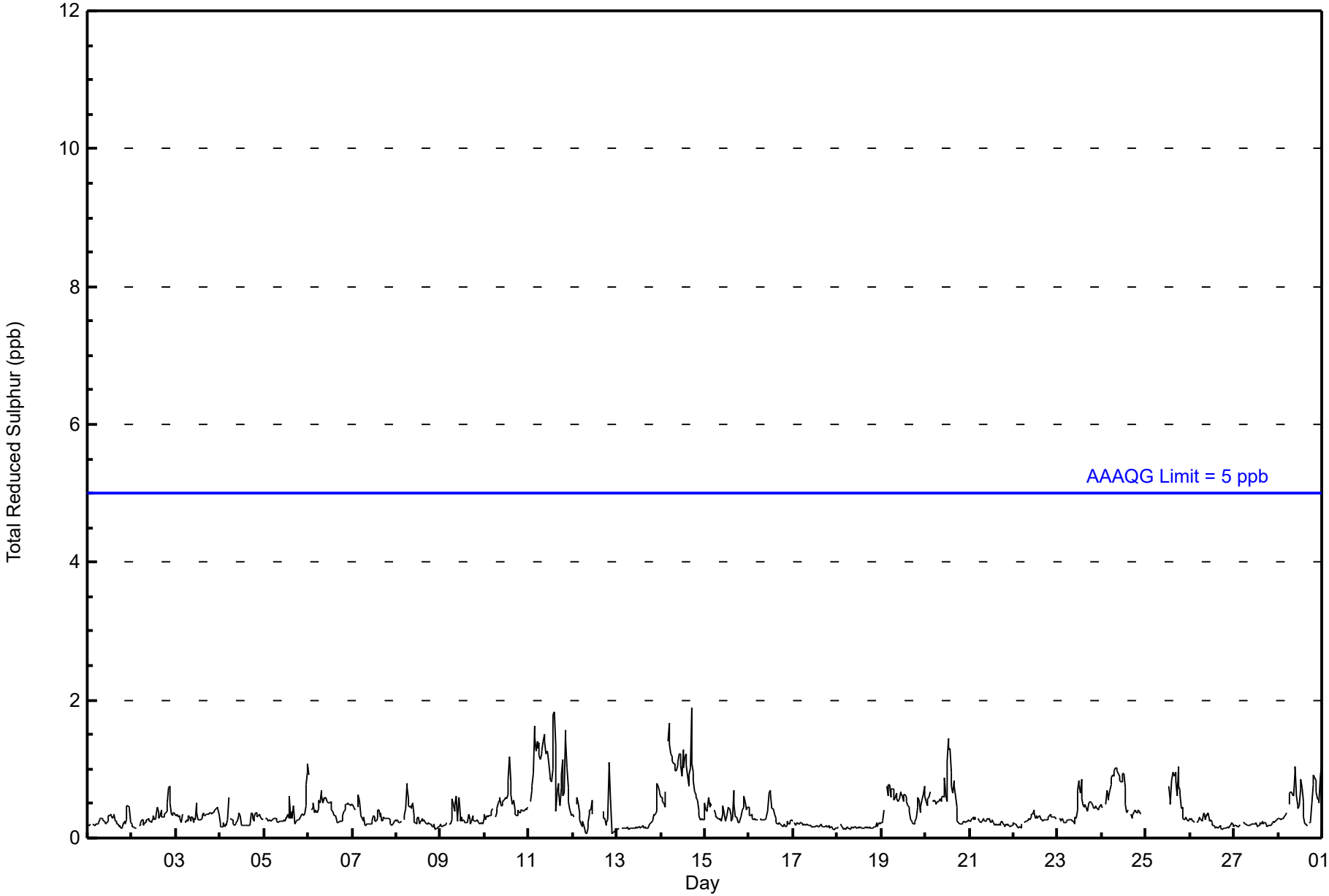
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Fort McKay - Bertha Ganter - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	623	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 623

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	132	129	36	18	7	3	10	55	112	20	26	8	14	12	15	21	618
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	132	129	36	18	7	3	10	55	112	20	26	8	14	12	15	21	618

Total Number of Valid Hours: 618

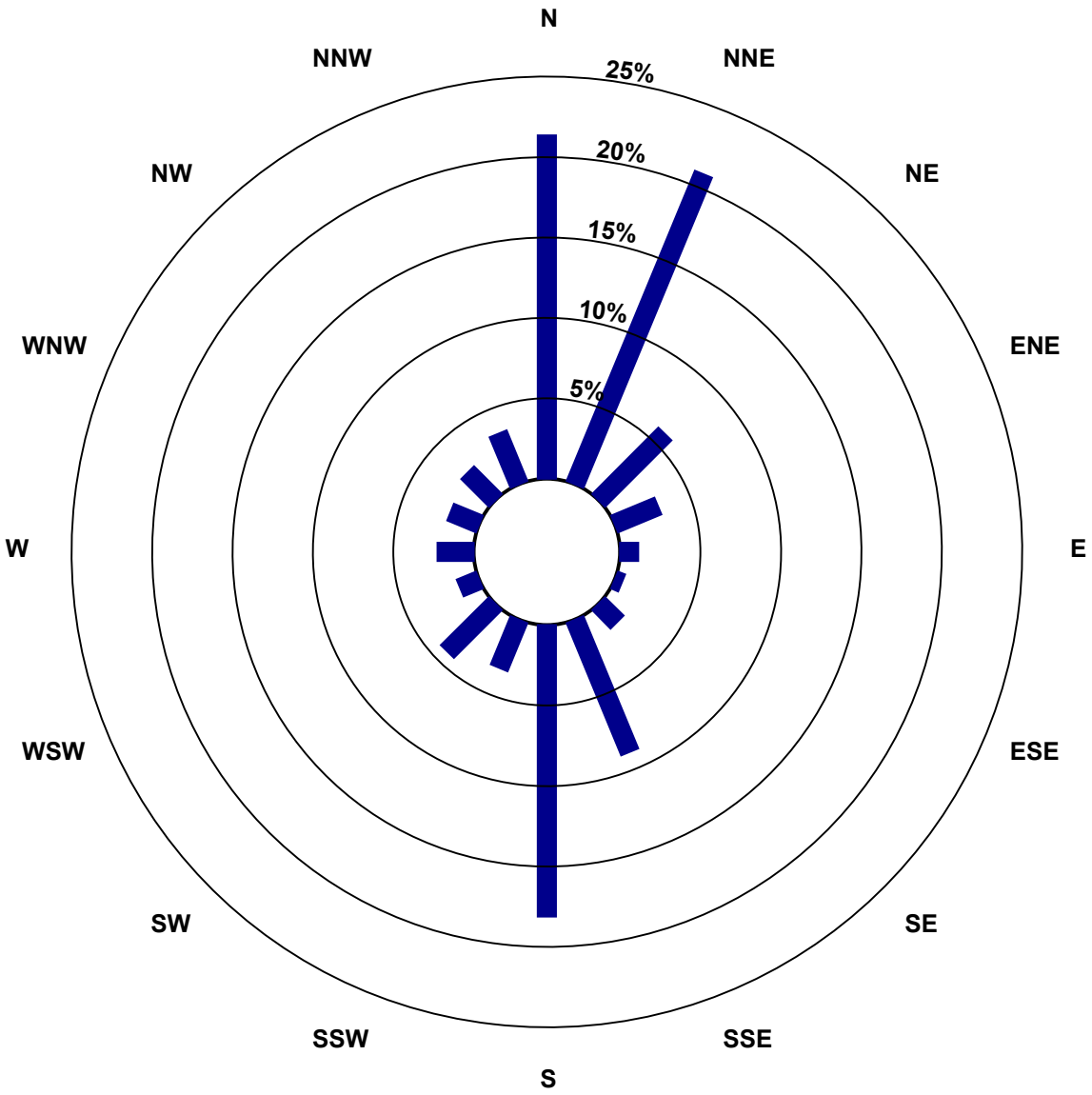
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Fort McKay - Bertha Ganter



Classes (ppb)

- 0 - 2
- 3 - 4
- 5 - 7
- 8 - 11
- > 11

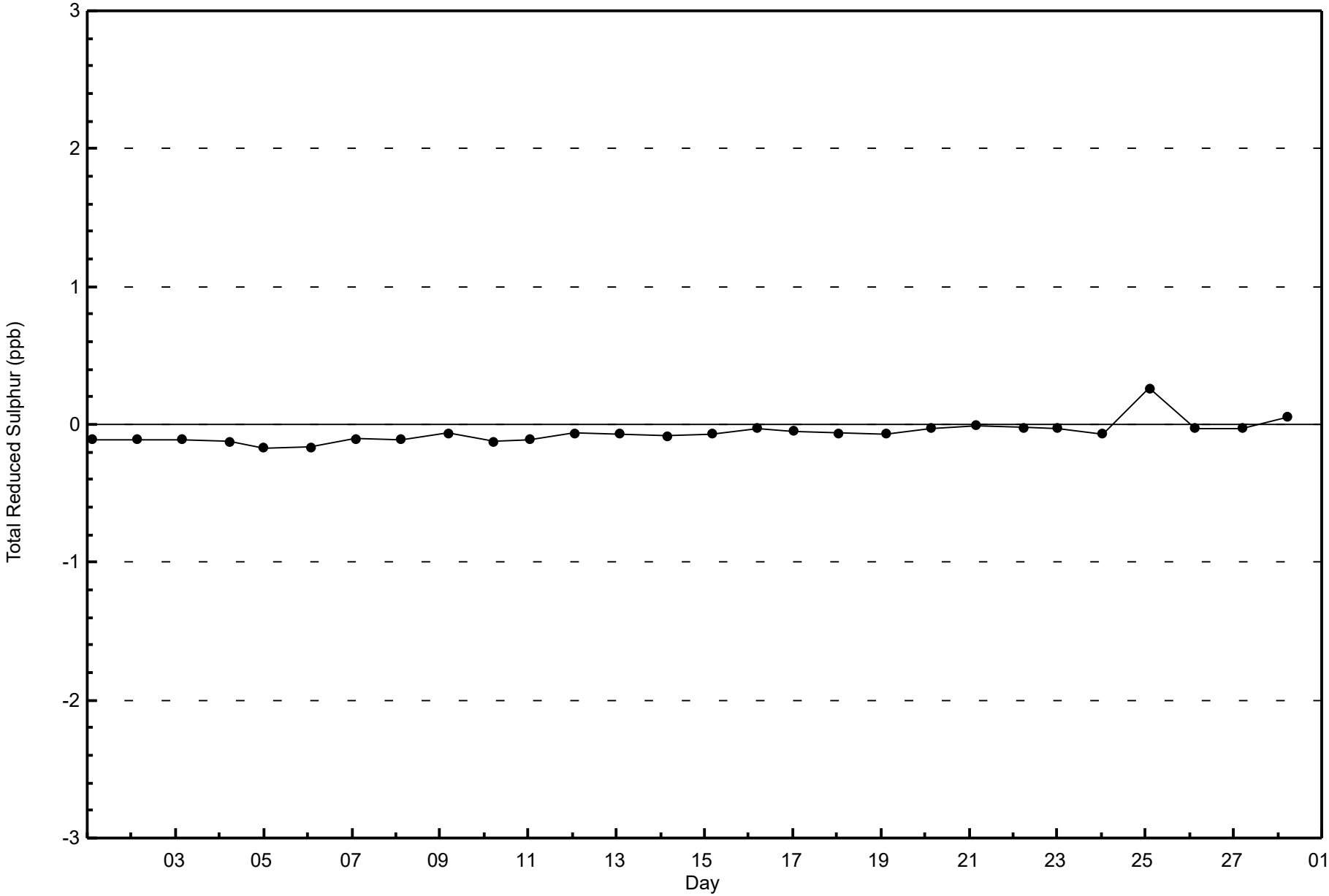
Total Number of Valid Hours: 618

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Fort McKay - Bertha Ganter - February 2026

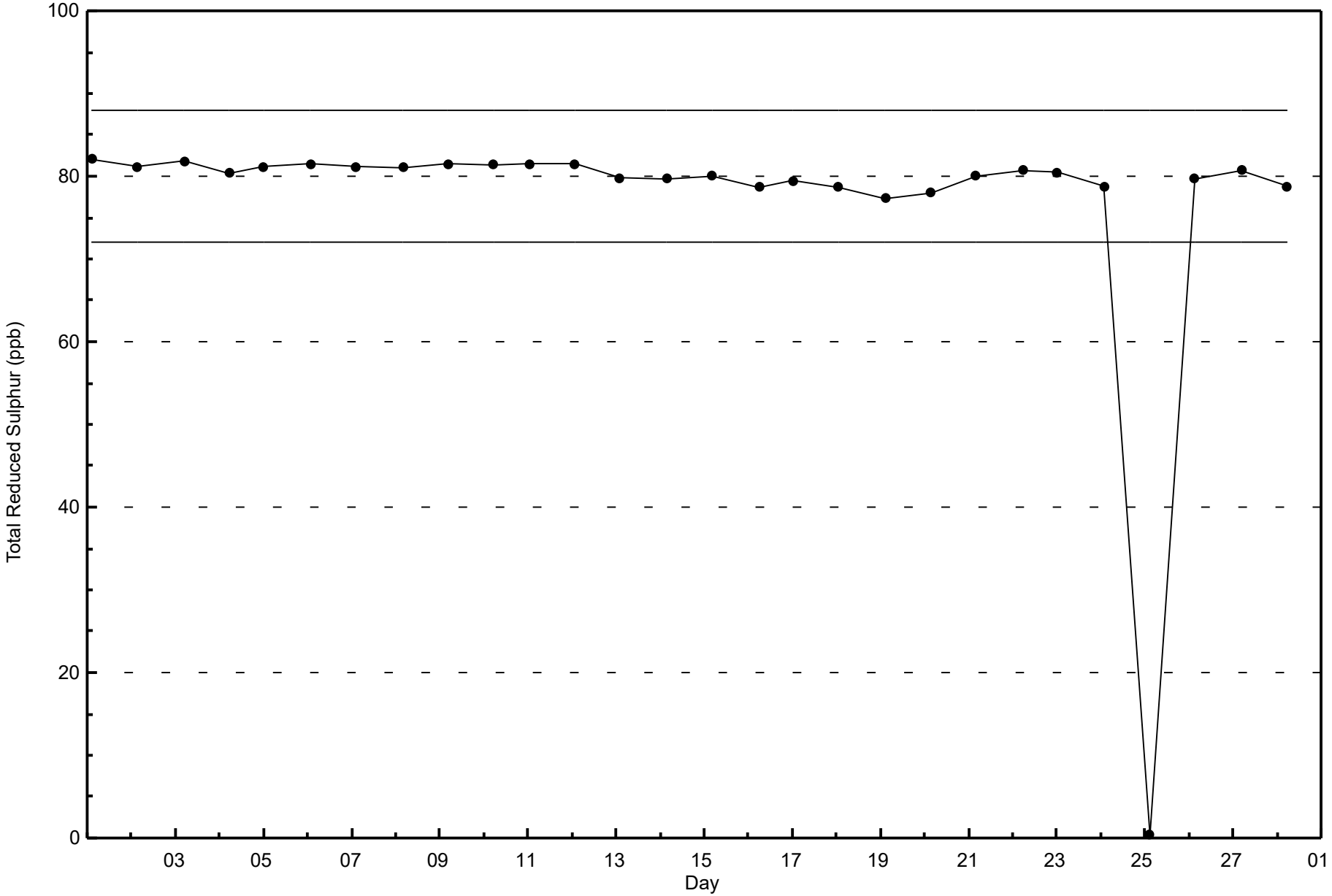


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Fort McKay - Bertha Ganter - February 2026

Maximum Value: 3.6 ppm on Feb 16 12:00

Maximum Daily Average: 2.9 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 4 14:00

Minimum Daily Average: 2.1 ppm on Feb 18

Maximum Diurnal Average: 2.4 ppm at hour 4

Minimum Diurnal Average: 2.2 ppm at hour 16

Monthly Average: 2.29 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.1 Q_1 = 2.1 Median = 2.2 Q_3 = 2.4 P_{90} = 2.6 P_{99} = 3.3

Hours in Service:	672
Hours of Data:	636
Hours of Missing Data:	36
Hours of Calibration:	32
Percent Operational Time:	99.4

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
2-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.3	2.4	2.3	2.2	2.3	2.3	2.4	2.8	2.5	2.5	2.3	2.3	2.8
3-Feb	2.2	2.2	2.2	Z	2.3	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3
4-Feb	2.1	2.1	2.1	2.1	Z	2.3	2.2	2.2	2.1	2.2	2.3	2.2	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
5-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.1	2.3
6-Feb	Z	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.6	2.9	2.8	2.8	2.8	2.5	2.3	2.1	2.2	2.1	2.1	2.3	2.4	2.4	2.4	2.4	2.4	2.9
7-Feb	2.4	Z	2.4	2.6	2.5	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.3	2.2	2.1	2.2	2.2	2.6
8-Feb	2.2	2.3	Z	2.4	2.3	2.6	2.7	3.6	2.9	2.6	2.3	2.2	2.1	2.2	2.2	2.2	2.1	2.3	2.4	2.1	2.2	2.1	2.1	2.1	2.4	3.6
9-Feb	2.2	2.3	2.3	Z	2.3	2.2	2.4	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.4
10-Feb	2.2	2.3	2.3	2.3	Z	2.3	2.3	2.4	2.7	2.5	2.4	2.4	2.5	2.7	2.4	2.4	2.3	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.4	2.7
11-Feb	2.7	3.0	3.0	3.1	3.0	Z	2.8	2.7	2.7	2.7	2.5	2.5	2.4	2.3	2.4	2.3	2.6	2.5	2.5	2.6	2.8	2.8	2.7	2.7	2.7	3.1
12-Feb	Z	2.7	2.8	2.6	2.4	2.4	2.3	2.1	2.2	2.2	2.4	2.5	2.3	2.3	2.4	2.4	2.3	2.3	2.2	2.4	2.2	2.1	2.0	2.0	2.3	2.8
13-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.3	2.3	2.4	2.4	2.1	2.4
14-Feb	2.5	2.5	Z	2.9	3.2	3.1	2.9	3.0	2.9	2.9	3.0	2.9	3.3	3.2	3.0	2.9	3.6	3.3	3.3	2.9	2.6	2.3	2.5	2.4	2.9	3.6
15-Feb	2.4	2.3	2.3	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.4	2.3	2.2	2.1	2.3	2.3	2.3	2.3	2.2	2.3	2.2	2.4
16-Feb	2.2	2.2	2.2	2.3	Z	2.2	2.3	2.3	2.3	2.4	2.7	3.6	2.8	2.5	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	3.6
17-Feb	2.1	2.1	2.1	2.1	2.2	Z	2.1	2.1	2.1	2.1	2.1	2.1	C	C	C	C	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.1	2.2
18-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.2
19-Feb	2.1	Z	2.2	2.4	2.3	2.4	2.4	2.2	2.2	2.3	2.3	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.4	2.2	2.3	2.3	2.2	2.4
20-Feb	2.3	2.2	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.2	M	M	2.4	2.5	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.5
21-Feb	2.1	2.1	2.1	Z	2.4	2.3	2.1	2.3	2.2	2.2	2.3	2.3	2.5	2.4	2.0	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.0	2.1	2.2	2.5
22-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.2	2.4
23-Feb	2.4	2.5	2.4	2.3	2.2	Z	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.2	2.1	2.3	2.5	2.6	2.6	2.6	2.8	2.9	3.0	3.0	2.4	3.0
24-Feb	Z	2.7	2.7	2.9	3.1	2.9	3.0	3.2	3.2	2.9	2.7	2.6	2.5	2.3	M	M	2.1	2.1	2.2	2.2	2.3	2.2	2.3	2.2	2.6	3.2
25-Feb	2.2	Z	2.1	2.2	2.3	2.3	2.4	2.4	2.5	2.4	2.9	2.6	2.5	2.2	2.1	2.1	2.1	2.6	2.8	2.5	2.2	2.1	2.2	2.3	2.3	2.9
26-Feb	2.2	2.2	Z	2.3	2.2	2.3	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
27-Feb	2.0	2.0	2.0	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.1	2.2	2.3	2.4	2.4	2.4	2.2	2.4
28-Feb	2.4	2.5	2.5	2.5	Z	2.5	2.6	2.5	2.3	2.6	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.4	3.4	3.5	2.8	2.4	2.3	2.4	3.5
	2.2	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	Diurnal Average	
	2.7	3.0	3.0	3.1	3.2	3.1	3.0	3.6	3.2	2.9	3.0	3.6	3.3	3.2	3.0	2.9	3.6	3.3	3.3	3.4	3.5	2.9	3.0	3.0	Diurnal Maximum	

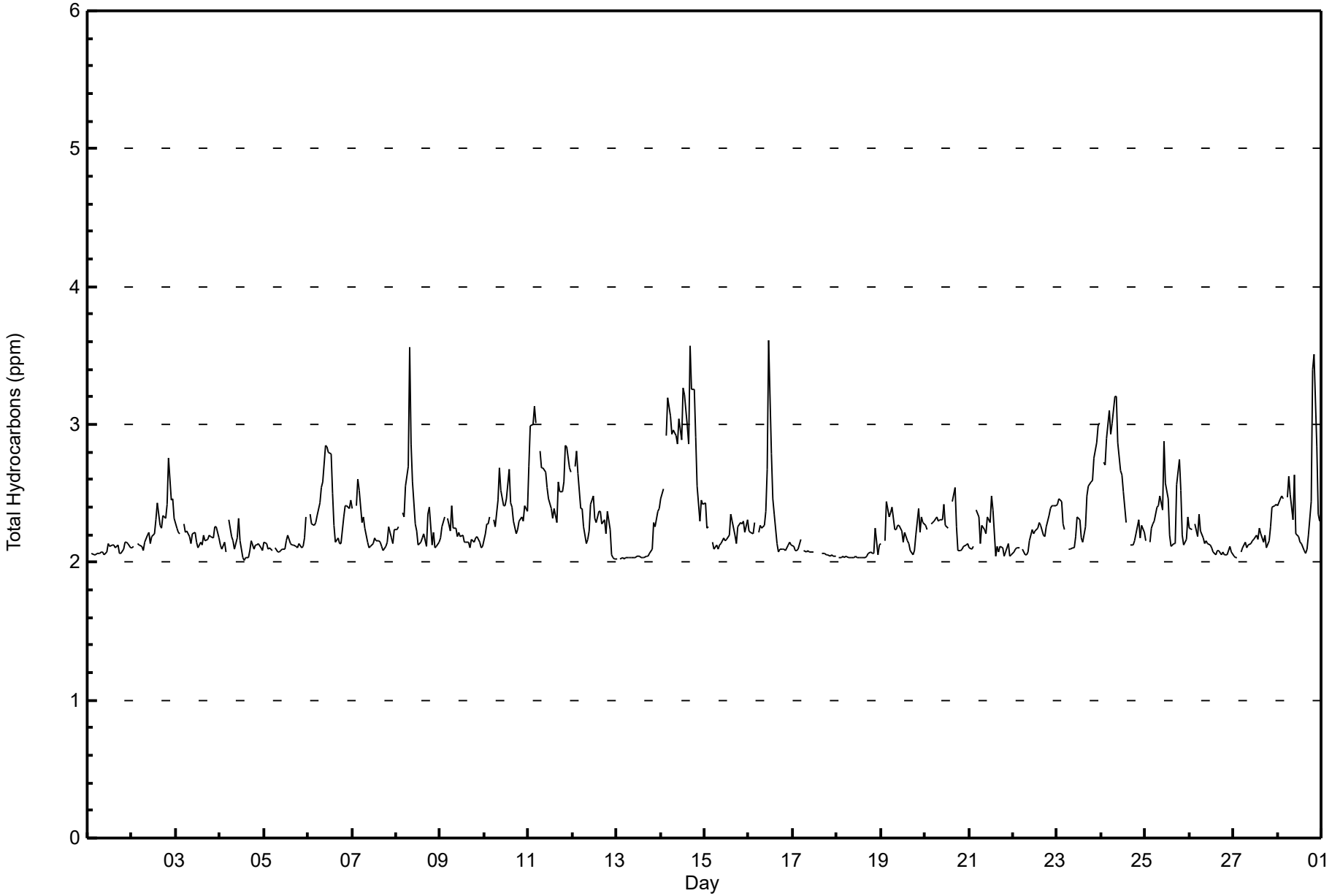
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Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Total Hydrocarbons (THC) - ppm

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	48	7.55	7.55
2.1 - 3.0	573	90.09	97.64
3.1 - 10.0	15	2.36	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 636

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	6	19	0	0	0	0	0	0	1	1	12	6	3	0	0	0	48
2.1 - 3.0	123	108	35	18	7	1	10	60	112	19	12	3	11	15	15	19	568
3.1 - 10.0	2	1	0	0	1	0	1	0	6	1	0	0	0	0	1	1	14
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	131	128	35	18	8	1	11	60	119	21	24	9	14	15	16	20	630

Total Number of Valid Hours: 630

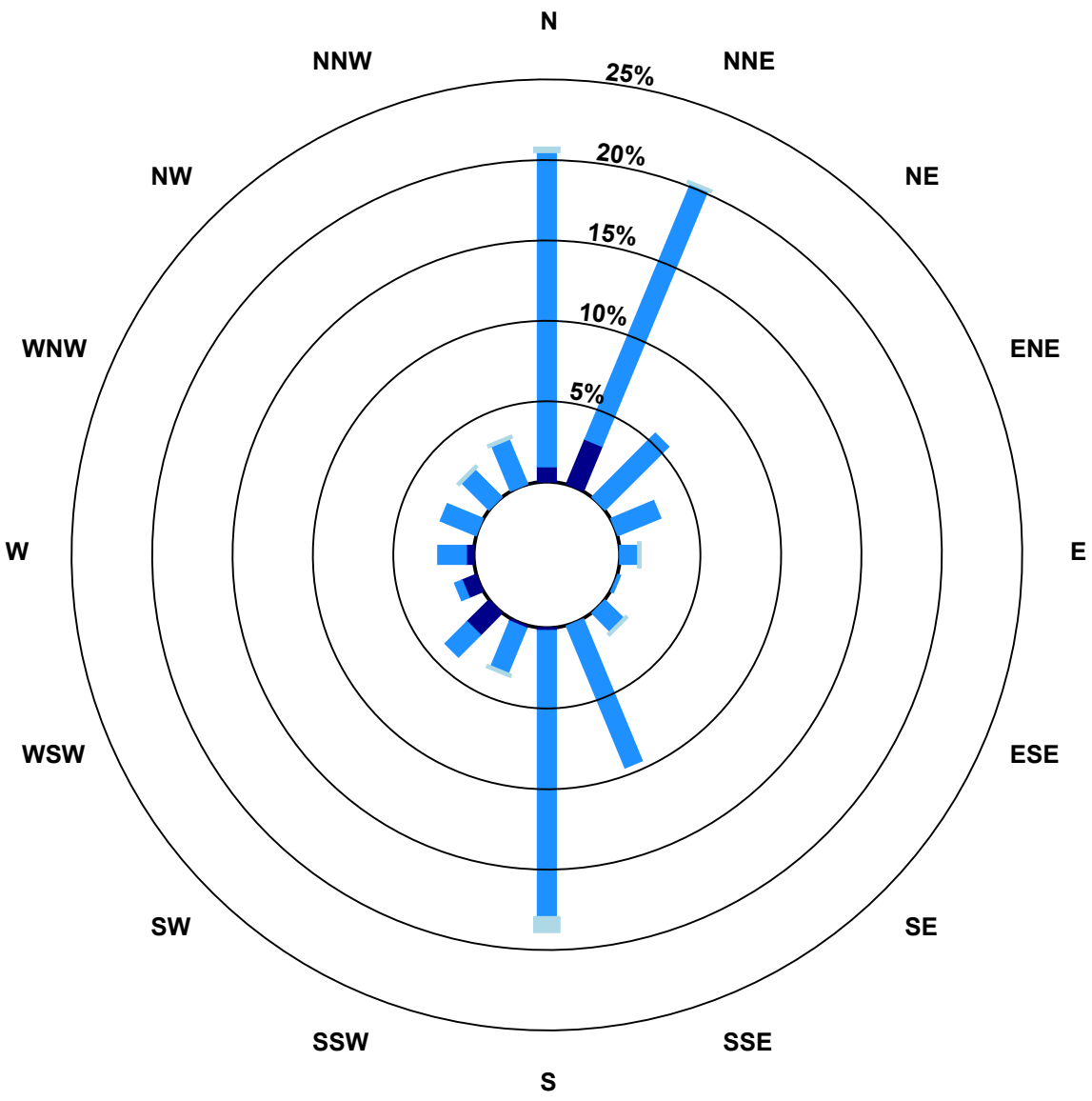
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Fort McKay - Bertha Ganter



Classes (ppm)

- 0 - 2.0
- 2.1 - 3.0
- 3.1 - 10.0
- > 10.0

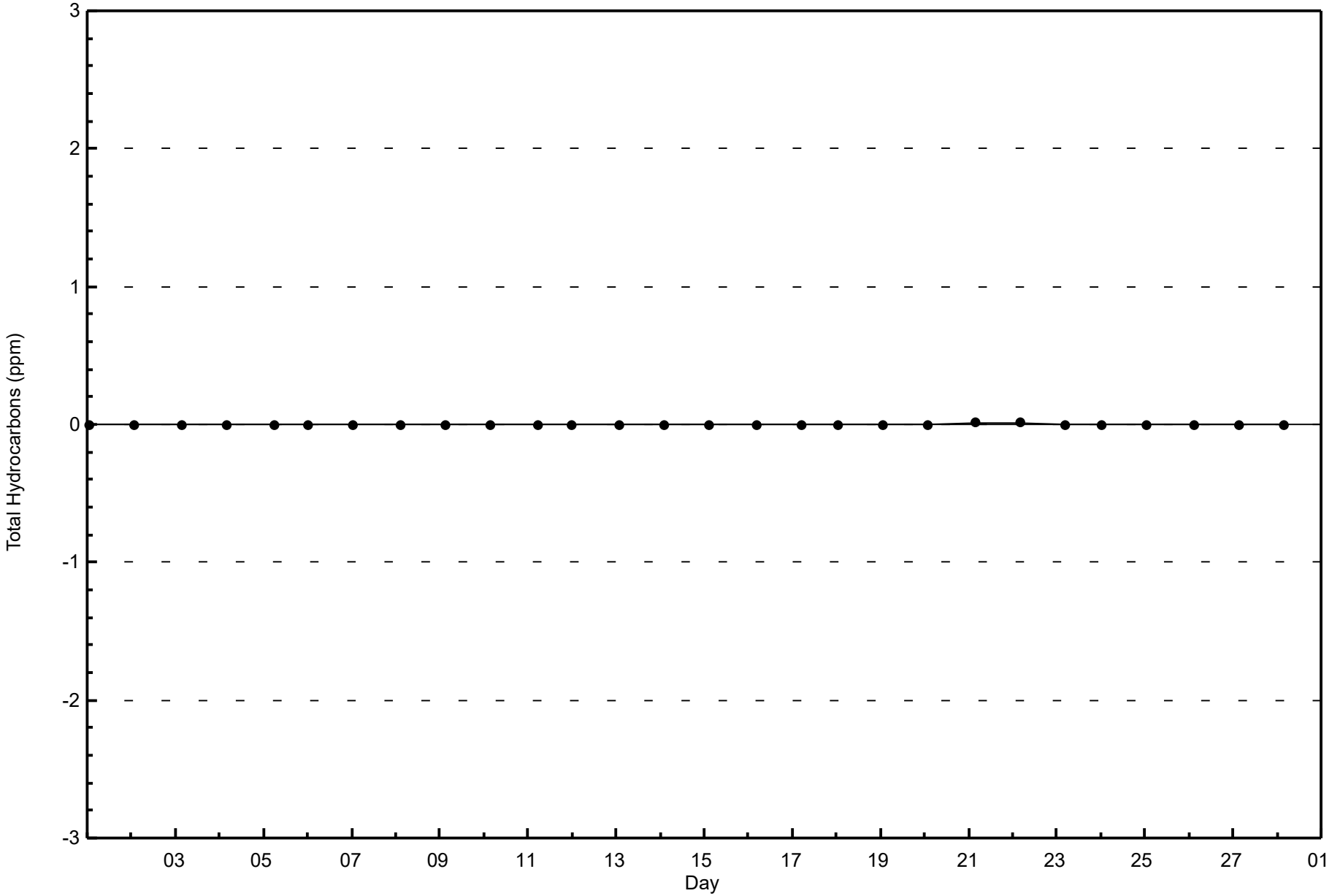
Total Number of Valid Hours: 630

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Fort McKay - Bertha Ganter - February 2026

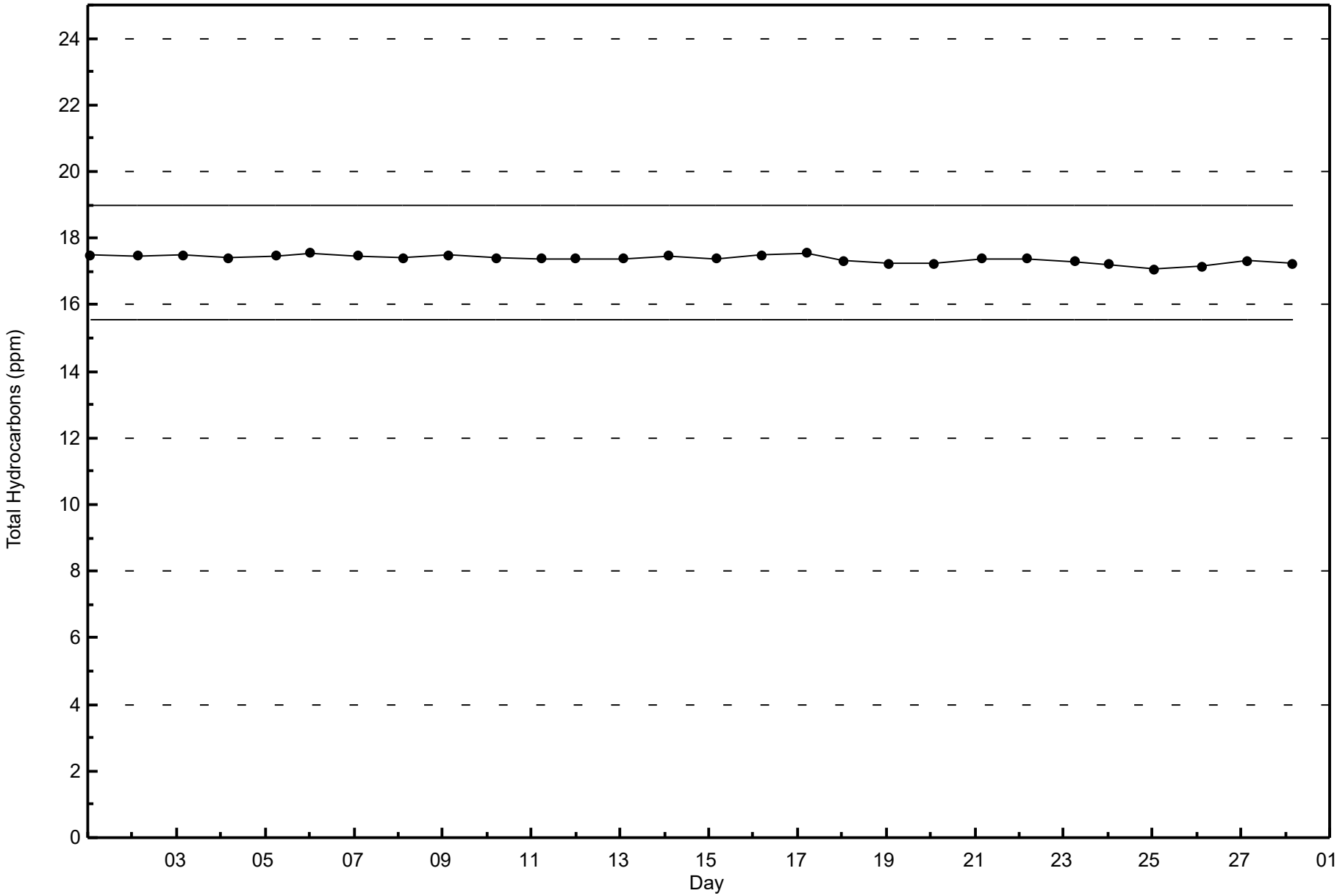


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay - Bertha Ganter - February 2026

Maximum Value: 0.866 ppm on Feb 16 12:00

Maximum Daily Average: 0.115 ppm on Feb 28

Minimum Value: 0.000 ppm on Feb 2 07:00

Minimum Daily Average: 0.001 ppm on Feb 1

Maximum Diurnal Average: 0.065 ppm at hour 13

Minimum Diurnal Average: 0.025 ppm at hour 9

Monthly Average: 0.041 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.1 P_{90} = 0.1 P_{99} = 0.3

Hours in Service:	672
Hours of Data:	636
Hours of Missing Data:	36
Hours of Calibration:	32
Percent Operational Time:	99.4

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.001	Z	0.002	0.001	0.001	0.004	0.001	0.001	0.001	0.001	0.001	0.004	0.001	0.001	0.001	0.003	0.001	0.000	0.000	0.000	0.002	0.001	0.003	0.000	0.001	0.004
2-Feb	0.009	0.001	Z	0.003	0.010	0.004	0.000	0.001	0.013	0.002	0.000	0.029	0.039	0.073	0.133	0.061	0.031	0.091	0.078	0.127	0.056	0.046	0.086	0.031	0.040	0.133
3-Feb	0.032	0.015	0.042	Z	0.024	0.017	0.021	0.012	0.009	0.012	0.011	0.010	0.001	0.003	0.001	0.066	0.002	0.002	0.004	0.012	0.003	0.036	0.028	0.018	0.017	0.066
4-Feb	0.018	0.002	0.004	0.003	Z	0.083	0.018	0.008	0.004	0.030	0.037	0.015	0.006	0.005	0.014	0.009	0.049	0.014	0.001	0.001	0.001	0.005	0.010	0.001	0.015	0.083
5-Feb	0.044	0.026	0.008	0.009	0.003	Z	0.002	0.001	0.002	0.010	0.006	0.001	0.015	0.030	0.005	0.007	0.003	0.000	0.002	0.000	0.001	0.001	0.007	0.048	0.010	0.048
6-Feb	Z	0.019	0.016	0.023	0.008	0.035	0.046	0.055	0.053	0.041	0.058	0.103	0.098	0.056	0.011	0.001	0.014	0.012	0.002	0.039	0.061	0.045	0.035	0.070	0.039	0.103
7-Feb	0.016	Z	0.021	0.037	0.214	0.124	0.155	0.118	0.038	0.003	0.003	0.000	0.057	0.043	0.000	0.000	0.000	0.000	0.000	0.014	0.106	0.049	0.000	0.000	0.043	0.214
8-Feb	0.002	0.000	Z	0.080	0.048	0.011	0.029	0.064	0.033	0.015	0.001	0.005	0.000	0.000	0.011	0.100	0.009	0.128	0.205	0.003	0.003	0.000	0.003	0.001	0.033	0.205
9-Feb	0.004	0.033	0.061	Z	0.002	0.003	0.014	0.003	0.001	0.003	0.009	0.022	0.045	0.034	0.048	0.024	0.005	0.000	0.000	0.001	0.041	0.037	0.004	0.000	0.017	0.061
10-Feb	0.007	0.011	0.006	0.005	Z	0.013	0.007	0.014	0.025	0.038	0.077	0.069	0.058	0.101	0.038	0.028	0.046	0.015	0.022	0.044	0.051	0.039	0.062	0.032	0.035	0.101
11-Feb	0.034	0.040	0.054	0.058	0.066	Z	0.085	0.077	0.094	0.055	0.053	0.040	0.056	0.071	0.067	0.018	0.021	0.037	0.045	0.041	0.050	0.033	0.012	0.014	0.049	0.094
12-Feb	Z	0.052	0.089	0.029	0.010	0.021	0.002	0.003	0.011	0.014	0.051	0.065	0.057	0.040	0.087	0.091	0.083	0.083	0.014	0.141	0.053	0.000	0.003	0.000	0.043	0.141
13-Feb	0.000	Z	0.000	0.002	0.001	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.003	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.005	0.001	0.006
14-Feb	0.035	0.057	Z	0.058	0.080	0.082	0.074	0.072	0.100	0.066	0.061	0.049	0.175	0.229	0.192	0.175	0.375	0.172	0.105	0.060	0.049	0.017	0.009	0.003	0.100	0.375
15-Feb	0.039	0.013	0.038	Z	0.013	0.000	0.001	0.000	0.015	0.000	0.000	0.000	0.006	0.034	0.180	0.103	0.019	0.001	0.018	0.032	0.044	0.057	0.023	0.079	0.031	0.180
16-Feb	0.021	0.005	0.006	0.028	Z	0.002	0.030	0.003	0.003	0.020	0.036	0.866	0.362	0.236	0.175	0.044	0.000	0.000	0.000	0.002	0.000	0.000	0.001	0.000	0.080	0.866
17-Feb	0.001	0.002	0.001	0.002	0.076	Z	0.004	0.002	0.001	0.001	0.002	0.002	C	C	C	C	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.005	0.076
18-Feb	Z	0.000	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.066	0.003	0.018	0.004	0.066
19-Feb	0.012	Z	0.001	0.082	0.022	0.019	0.026	0.004	0.005	0.012	0.011	0.009	0.001	0.002	0.000	0.000	0.001	0.000	0.002	0.017	0.057	0.012	0.069	0.013	0.016	0.082
20-Feb	0.031	0.026	Z	0.023	0.025	0.027	0.037	0.030	0.032	0.030	0.046	0.038	0.080	M	M	0.178	0.114	0.067	0.000	0.000	0.000	0.000	0.000	0.002	0.037	0.178
21-Feb	0.000	0.000	0.000	Z	0.133	0.059	0.001	0.000	0.007	0.006	0.063	0.027	0.222	0.197	0.000	0.062	0.014	0.000	0.000	0.000	0.037	0.080	0.000	0.000	0.039	0.222
22-Feb	0.012	0.023	0.038	0.045	Z	0.000	0.000	0.000	0.000	0.013	0.091	0.040	0.066	0.065	0.097	0.077	0.012	0.000	0.000	0.000	0.002	0.008	0.019	0.013	0.027	0.097
23-Feb	0.004	0.001	0.001	0.000	0.000	Z	0.000	0.001	0.000	0.005	0.022	0.000	0.000	0.000	0.024	0.106	0.065	0.082	0.084	0.132	0.241	0.355	0.474	0.447	0.089	0.474
24-Feb	Z	0.197	0.116	0.160	0.185	0.115	0.099	0.110	0.152	0.090	0.047	0.072	0.112	0.088	M	M	0.003	0.004	0.019	0.037	0.073	0.015	0.025	0.005	0.082	0.197
25-Feb	0.006	Z	0.005	0.018	0.010	0.019	0.028	0.055	0.045	0.013	0.079	0.116	0.146	0.025	0.003	0.007	0.008	0.201	0.212	0.174	0.015	0.000	0.040	0.215	0.063	0.215
26-Feb	0.124	0.131	Z	0.176	0.082	0.182	0.052	0.012	0.008	0.006	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.034	0.182
27-Feb	0.000	0.002	0.000	Z	0.030	0.047	0.079	0.008	0.002	0.005	0.030	0.047	0.105	0.062	0.160	0.041	0.002	0.010	0.027	0.038	0.136	0.239	0.290	0.274	0.071	0.290
28-Feb	0.233	0.236	0.230	0.201	Z	0.114	0.131	0.066	0.056	0.272	0.064	0.054	0.034	0.029	0.007	0.000	0.004	0.026	0.075	0.276	0.295	0.167	0.063	0.015	0.115	0.295
	0.029	0.039	0.032	0.045	0.045	0.041	0.034	0.026	0.025	0.027	0.031	0.060	0.065	0.055	0.050	0.047	0.031	0.034	0.033	0.043	0.049	0.047	0.045	0.047	Diurnal Average	
	0.233	0.236	0.230	0.201	0.214	0.182	0.155	0.118	0.152	0.272	0.091	0.866	0.362	0.236	0.192	0.178	0.375	0.201	0.212	0.276	0.295	0.355	0.474	0.447	Diurnal Maximum	

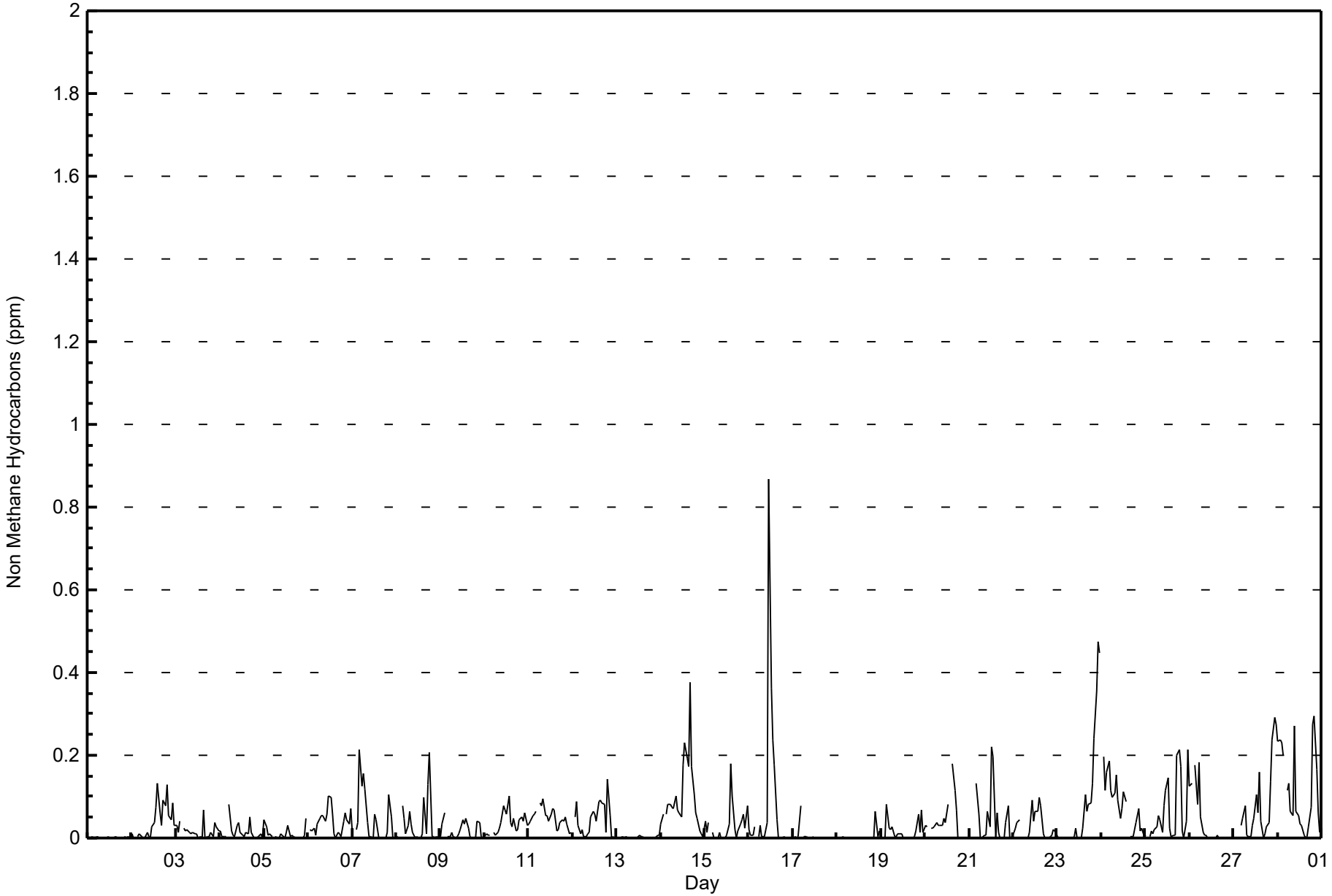
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Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	254	39.94	39.94
0.006 - 0.05	228	35.85	75.79
0.06 - 0.1	111	17.45	93.24
> 0.1	43	6.76	100.00

Total Number of Valid Hours: 636

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	64	62	16	6	0	1	8	21	32	2	12	7	5	3	3	10	252
0.006 - 0.05	47	39	13	7	2	0	1	23	48	10	9	1	5	5	8	7	225
0.06 - 0.1	16	16	5	2	3	0	1	15	33	7	1	1	2	3	5	1	111
> 0.1	4	11	1	3	3	0	1	1	6	2	2	0	2	4	0	2	42
Totals	131	128	35	18	8	1	11	60	119	21	24	9	14	15	16	20	630

Total Number of Valid Hours: 630

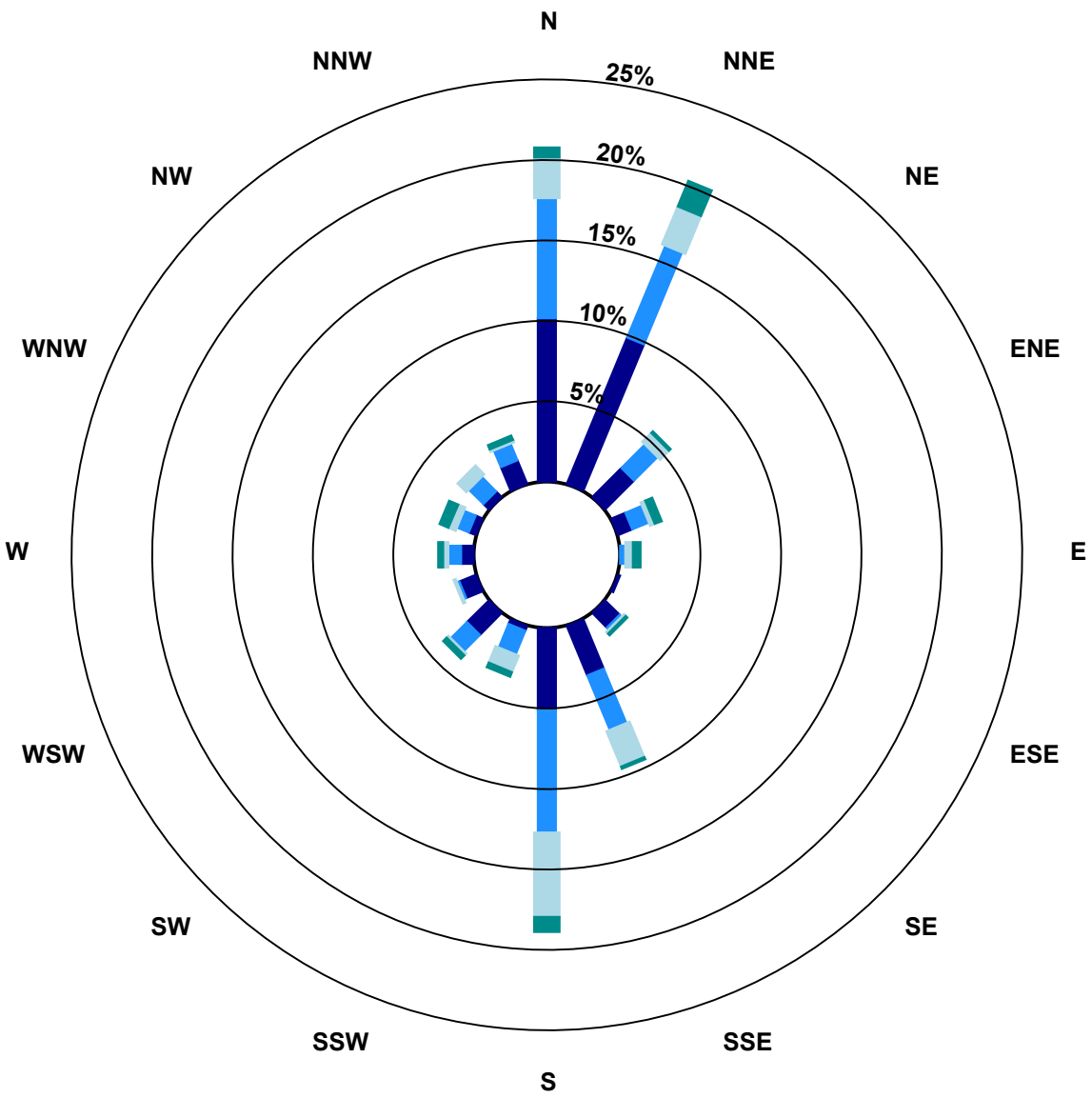
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay - Bertha Ganter



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

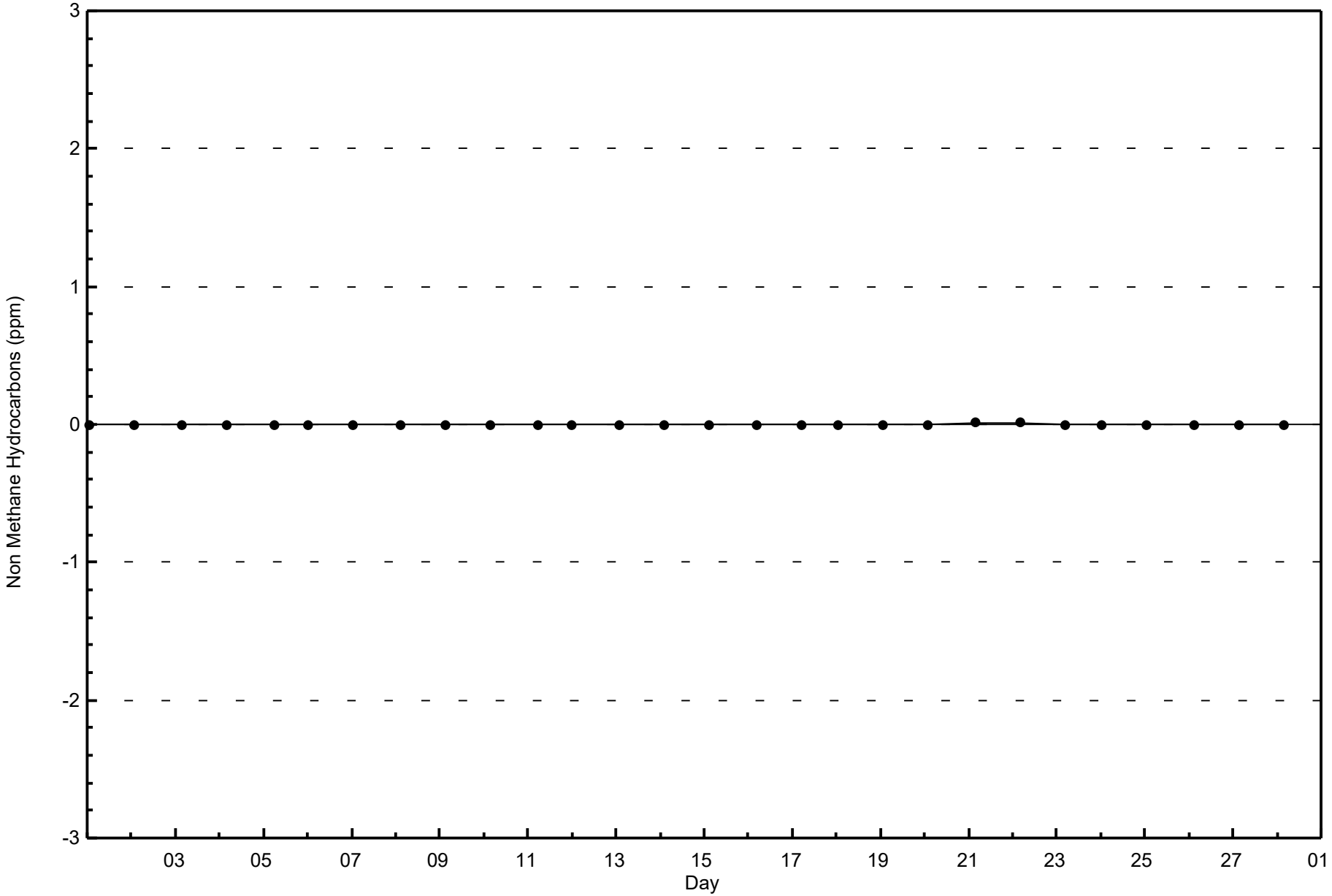
Total Number of Valid Hours: 630

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay - Bertha Ganter - February 2026

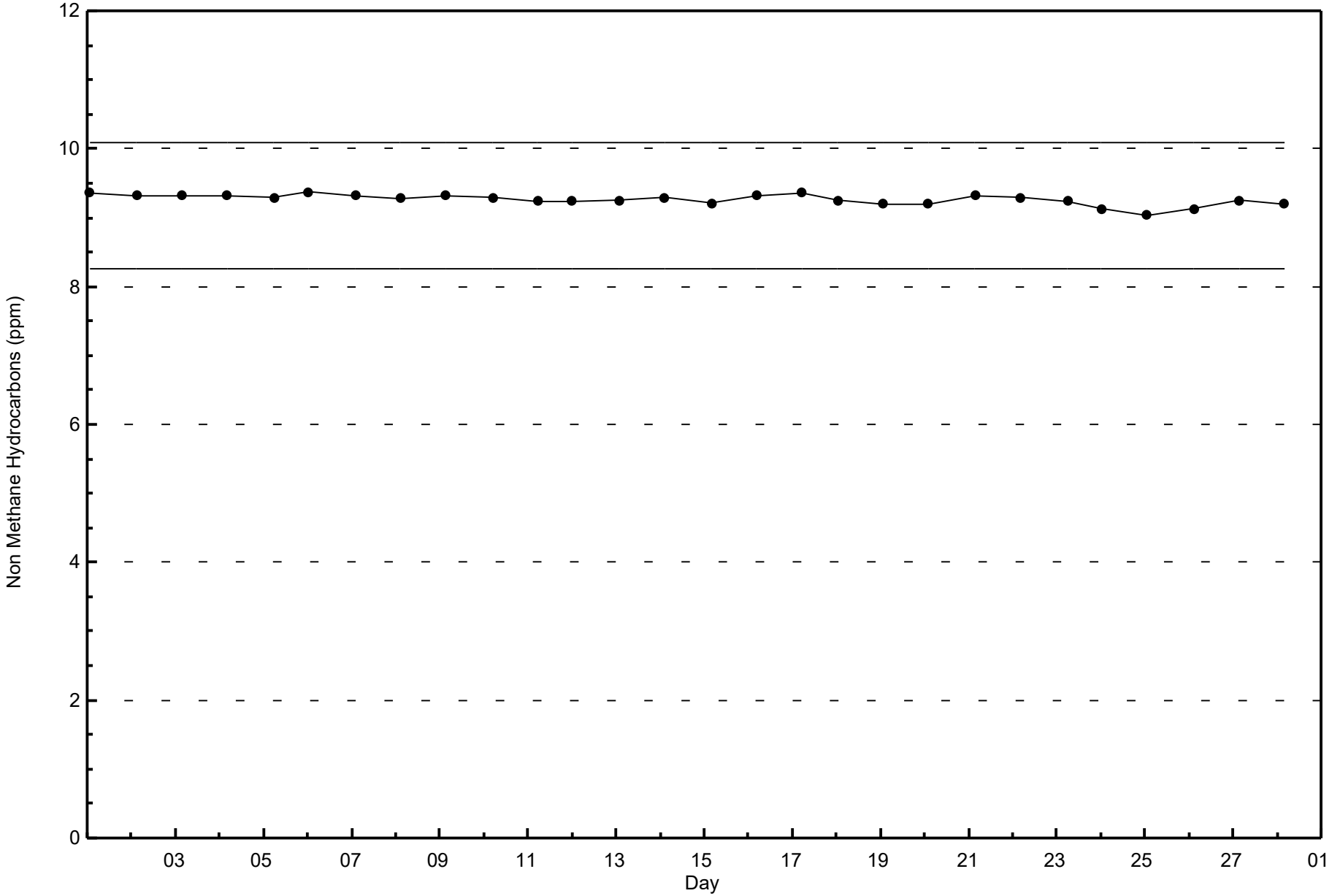


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Fort McKay - Bertha Ganter - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 3.5 ppm on Feb 8 08:00 Maximum Daily Average: 2.8 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 4 14:00 Minimum Daily Average: 2.1 ppm on Feb 18
Maximum Diurnal Average: 2.3 ppm at hour 8 Minimum Diurnal Average: 2.2 ppm at hour 16
Monthly Average: 2.25 ppm Percentiles: P_1 = 2.0 P_{10} = 2.1 Q_1 = 2.1 Median = 2.2 Q_3 = 2.3 P_{90} = 2.5 P_{99} = 3.1

Hours in Service:	672
Hours of Data:	636
Hours of Missing Data:	36
Hours of Calibration:	32
Percent Operational Time:	99.4

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
2-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.3	2.7	2.4	2.4	2.3	2.2	2.7
3-Feb	2.2	2.2	2.2	Z	2.3	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
4-Feb	2.1	2.1	2.1	2.1	Z	2.2	2.2	2.1	2.1	2.1	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
5-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.1	2.3
6-Feb	Z	2.3	2.3	2.2	2.3	2.3	2.4	2.5	2.5	2.8	2.8	2.7	2.7	2.4	2.3	2.1	2.2	2.1	2.1	2.3	2.4	2.4	2.4	2.4	2.4	2.8
7-Feb	2.4	Z	2.4	2.6	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.6
8-Feb	2.2	2.3	Z	2.3	2.3	2.5	2.7	3.5	2.8	2.6	2.3	2.2	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.3	3.5
9-Feb	2.2	2.2	2.3	Z	2.3	2.2	2.4	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.2	2.4
10-Feb	2.2	2.3	2.3	2.3	Z	2.3	2.3	2.4	2.7	2.5	2.3	2.3	2.4	2.6	2.4	2.4	2.3	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.7
11-Feb	2.7	3.0	2.9	3.1	2.9	Z	2.7	2.6	2.6	2.6	2.5	2.4	2.3	2.3	2.3	2.3	2.6	2.5	2.5	2.5	2.8	2.8	2.7	2.6	2.6	3.1
12-Feb	Z	2.6	2.7	2.6	2.4	2.4	2.3	2.1	2.2	2.2	2.4	2.4	2.3	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.3	2.7
13-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.3	2.3	2.4	2.4	2.1	2.4
14-Feb	2.4	2.5	Z	2.9	3.1	3.0	2.9	2.9	2.8	2.8	3.0	2.8	3.1	3.0	2.8	2.7	3.2	3.1	3.1	2.8	2.5	2.3	2.4	2.4	2.8	3.2
15-Feb	2.4	2.2	2.2	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.4
16-Feb	2.2	2.2	2.2	2.3	Z	2.2	2.2	2.2	2.3	2.4	2.6	2.7	2.4	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.7
17-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	C	C	C	C	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.1	2.1
18-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.0	2.1	2.1	2.2
19-Feb	2.1	Z	2.2	2.4	2.3	2.3	2.4	2.2	2.2	2.3	2.3	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.3	2.3	2.2	2.4
20-Feb	2.2	2.2	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.2	2.2	M	M	2.3	2.4	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.4
21-Feb	2.1	2.1	2.1	Z	2.2	2.3	2.1	2.3	2.2	2.2	2.3	2.3	2.3	2.2	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.3
22-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.2	2.4
23-Feb	2.4	2.5	2.4	2.3	2.2	Z	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.2	2.1	2.2	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.3	2.6
24-Feb	Z	2.5	2.6	2.7	2.9	2.8	2.9	3.1	3.0	2.8	2.6	2.6	2.4	2.2	M	M	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.5	3.1
25-Feb	2.1	Z	2.1	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.8	2.5	2.3	2.2	2.1	2.1	2.1	2.4	2.5	2.4	2.2	2.1	2.1	2.1	2.3	2.8
26-Feb	2.1	2.1	Z	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
27-Feb	2.0	2.0	2.0	Z	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.2
28-Feb	2.2	2.2	2.3	2.3	Z	2.4	2.5	2.4	2.3	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.4	3.1	3.2	2.7	2.3	2.3	2.3	3.2
	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	Diurnal Average	
	2.7	3.0	2.9	3.1	3.1	3.0	2.9	3.5	3.0	2.8	3.0	2.8	3.1	3.0	2.8	2.7	3.2	3.1	3.1	3.1	3.2	2.8	2.7	2.6	Diurnal Maximum	

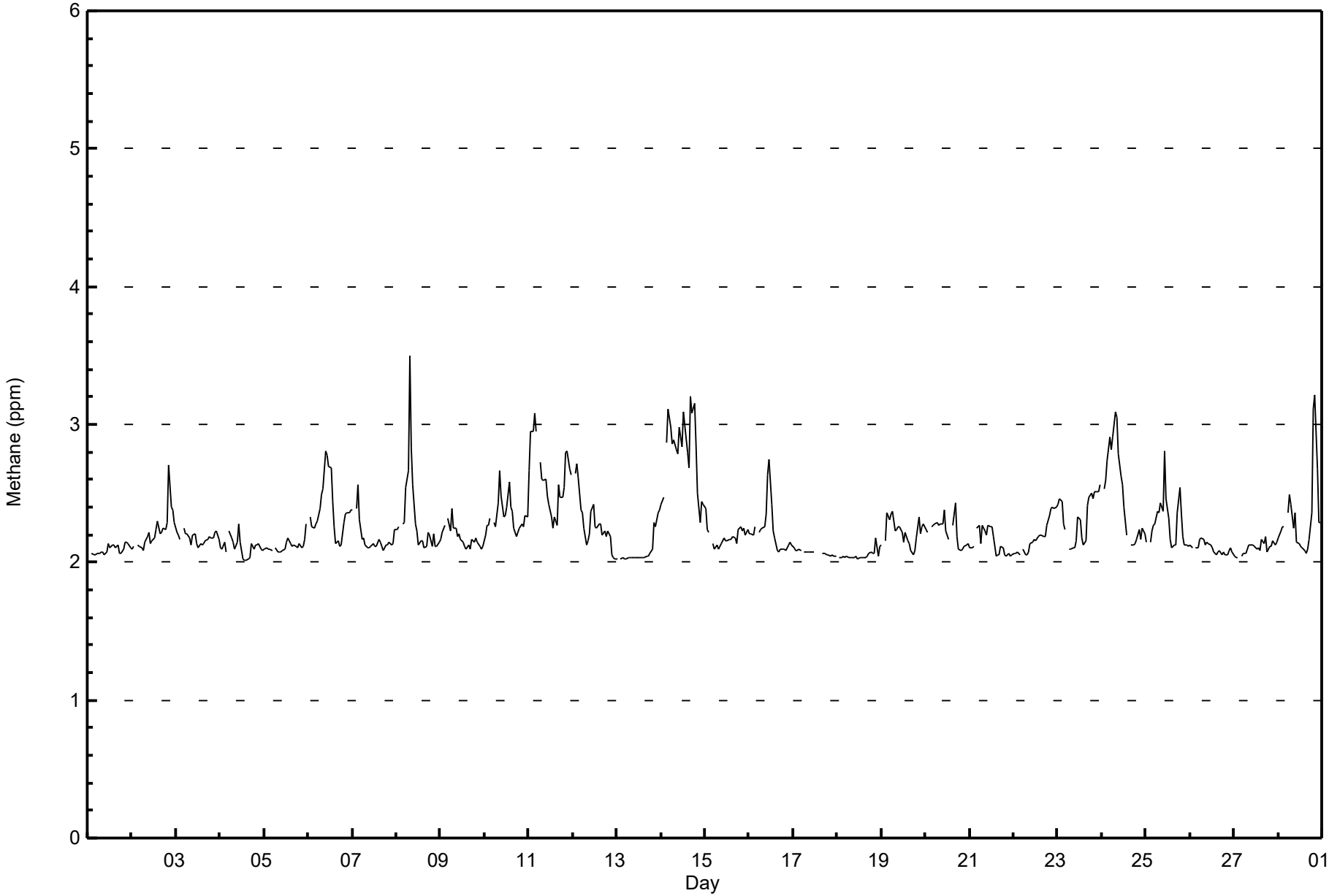
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Fort McKay - Bertha Ganter - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	51	8.02	8.02
2.1 - 3.0	575	90.41	98.43
3.1 - 10.0	10	1.57	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 636

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	6	20	0	0	0	0	0	0	1	1	13	6	3	0	1	0	51
2.1 - 3.0	123	108	35	18	7	1	11	60	114	19	11	3	11	15	14	19	569
3.1 - 10.0	2	0	0	0	1	0	0	0	4	1	0	0	0	0	1	1	10
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	131	128	35	18	8	1	11	60	119	21	24	9	14	15	16	20	630

Total Number of Valid Hours: 630

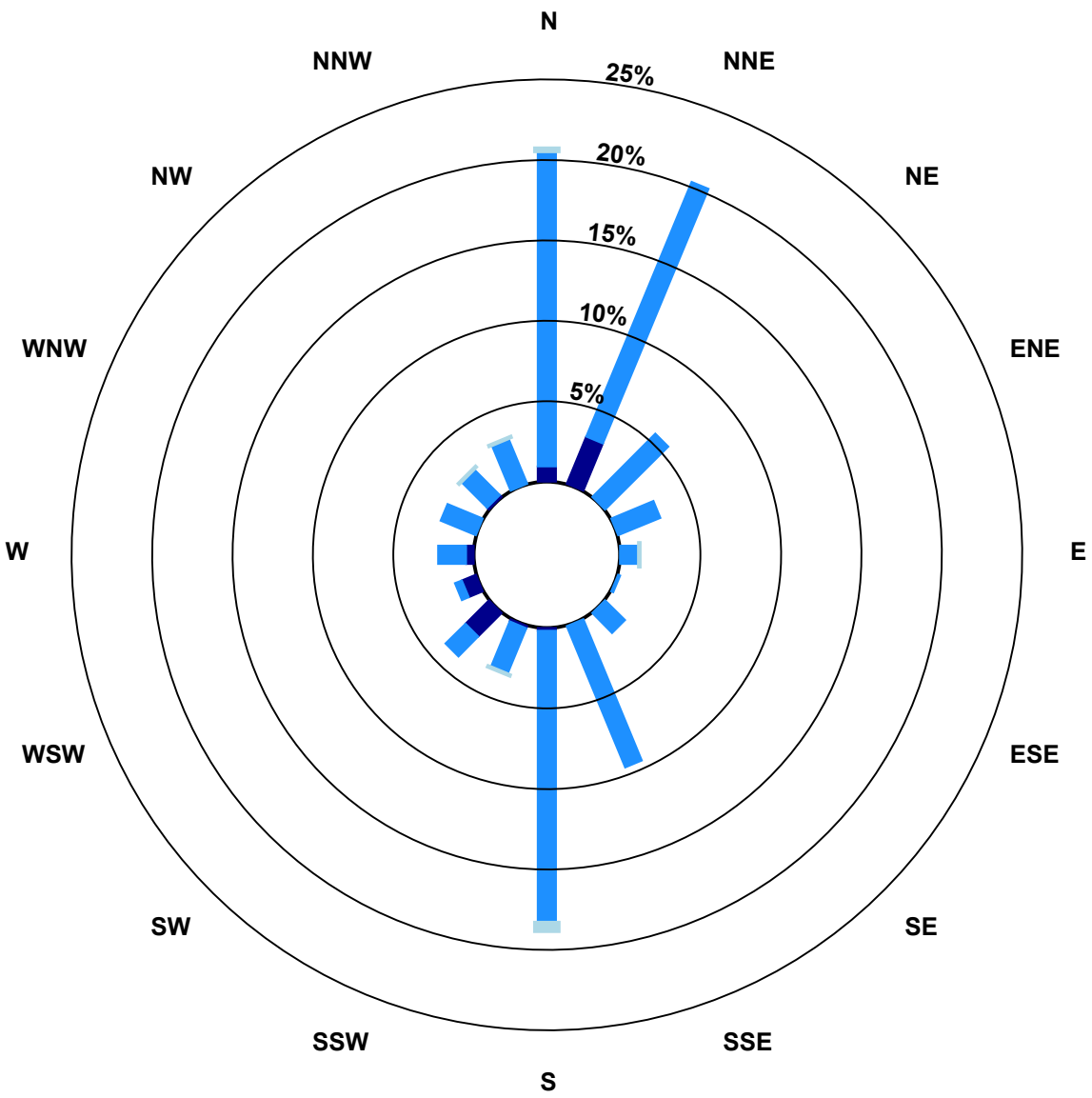
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Fort McKay - Bertha Ganter



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

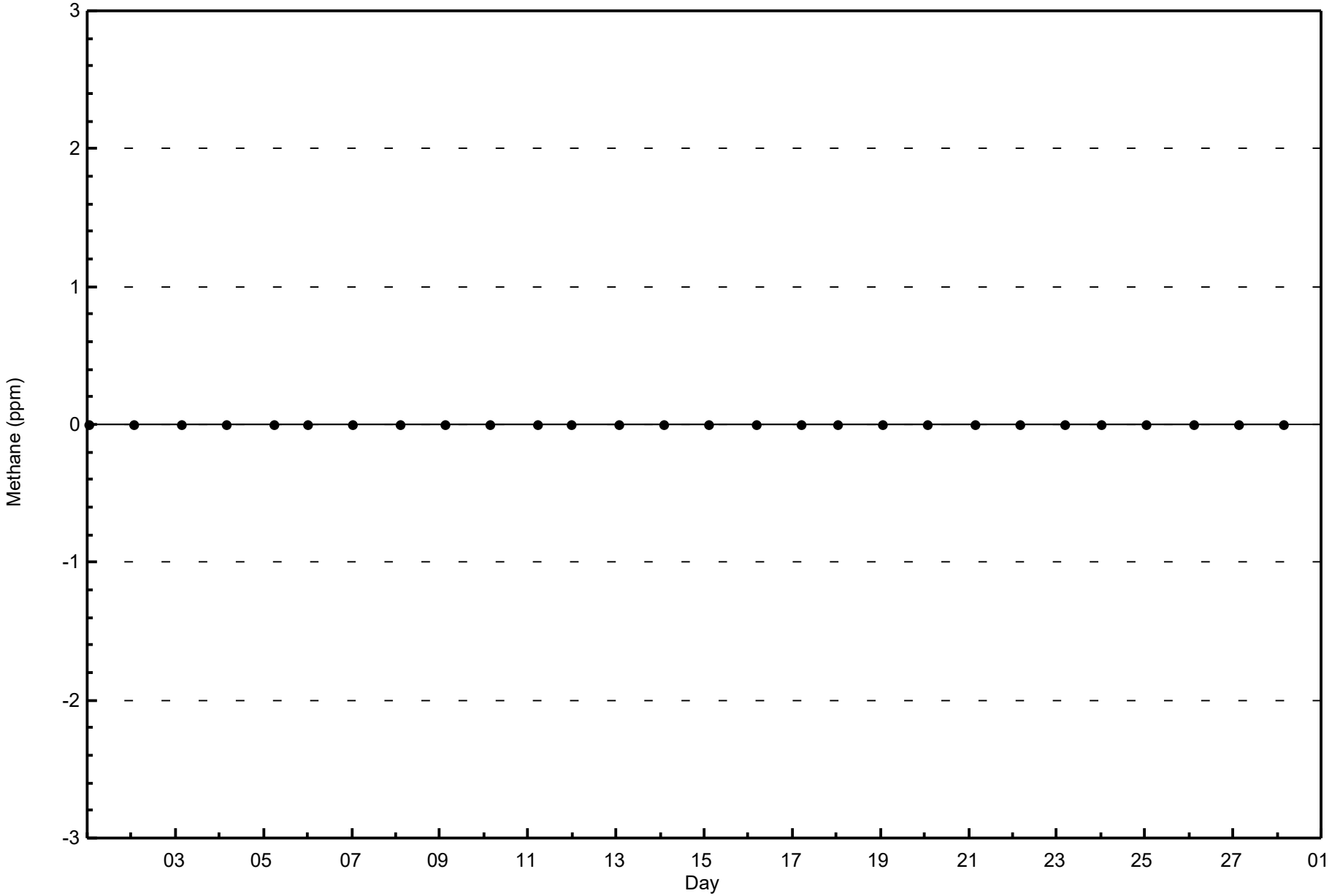
Total Number of Valid Hours: 630

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Fort McKay - Bertha Ganter - February 2026

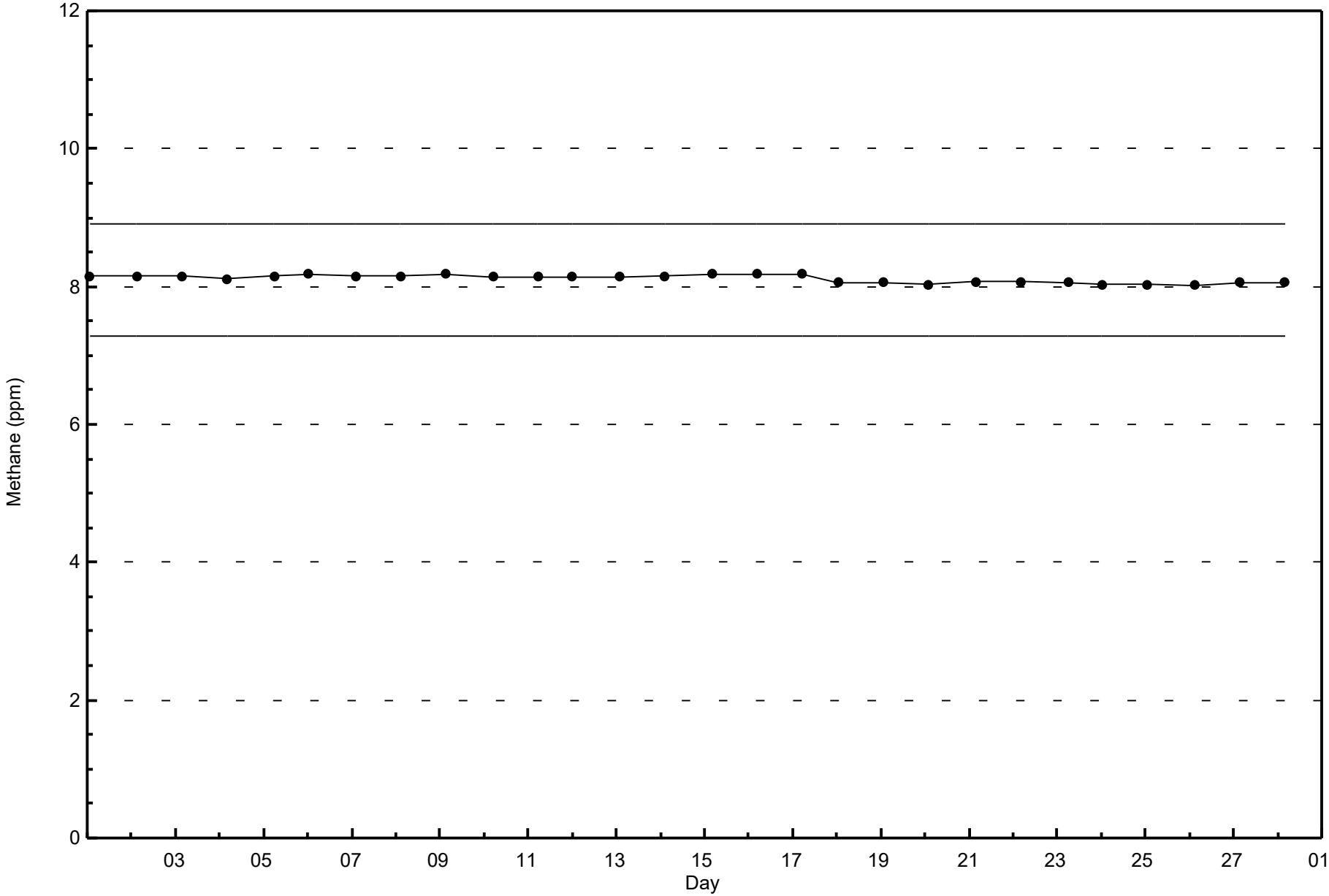


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Fort McKay - Bertha Ganter - February 2026

Maximum Value: 91.8 ppb on Feb 14 19:00

Maximum Daily Average: 32.7 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 1 01:00

Minimum Daily Average: 0.2 ppb on Feb 13

Maximum Diurnal Average: 12.9 ppb at hour 11

Minimum Diurnal Average: 2.8 ppb at hour 22

Monthly Average: 7.40 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 1.7 Q_3 = 9.7 P_{90} = 21.4 P_{99} = 58.4

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	33
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.2	0.6	1.6	2.6	3.4	3.1	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	3.4
2-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.2	1.7	2.1	2.3	2.7	2.0	1.0	0.9	0.0	0.0	2.9	48.0	10.5	9.9	6.1	4.0	48.0
3-Feb	0.7	Z	0.0	0.0	0.0	0.0	0.0	0.1	3.2	3.0	4.0	3.7	3.9	3.7	2.4	3.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.0
4-Feb	0.0	0.0	Z	0.0	0.0	0.5	0.1	0.0	0.1	7.4	12.5	3.9	0.1	0.2	0.1	0.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.5
5-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.8	3.1	3.4	1.9	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.4
6-Feb	0.0	0.2	0.0	0.6	Z	4.1	11.3	29.0	33.8	67.4	61.5	48.5	42.4	22.9	5.4	1.3	0.3	0.0	0.0	0.1	0.2	0.3	0.5	2.0	14.4	67.4
7-Feb	0.9	0.1	0.4	10.0	1.6	Z	0.0	0.6	1.9	4.3	2.6	1.4	3.2	4.2	5.3	3.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.8	10.0
8-Feb	Z	0.1	0.2	0.5	0.7	5.8	13.6	43.8	16.4	14.5	10.3	11.0	3.7	6.9	8.5	9.4	2.3	3.2	0.4	0.0	0.0	0.0	0.0	0.0	6.6	43.8
9-Feb	0.0	Z	0.2	0.0	0.0	0.0	6.7	2.7	1.7	1.4	2.3	5.3	6.5	4.3	2.7	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.7
10-Feb	0.0	0.0	Z	0.4	1.5	0.1	0.0	3.8	12.8	17.1	13.3	15.9	25.2	29.9	13.8	12.3	6.9	2.1	1.4	0.3	6.0	8.8	17.4	23.3	9.2	29.9
11-Feb	44.8	53.7	44.0	Z	28.0	20.2	15.7	21.1	18.8	20.0	21.4	17.1	10.1	8.8	8.4	4.2	6.5	2.0	7.5	8.4	3.0	14.0	24.3	17.6	18.2	53.7
12-Feb	14.9	16.5	17.4	15.5	Z	3.6	0.9	0.3	4.1	3.3	2.6	4.3	5.5	3.1	2.0	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	17.4
13-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.4	0.1	C	C	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.1	0.2	3.1
14-Feb	Z	6.9	12.4	31.3	29.0	25.0	13.7	19.6	19.1	21.8	35.9	43.0	60.2	50.8	35.8	25.9	76.0	84.9	91.8	49.7	14.8	1.9	2.9	0.1	32.7	91.8
15-Feb	0.4	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.7	2.0	3.6	4.6	5.3	5.4	1.8	0.1	0.0	0.0	0.0	0.1	0.0	0.2	1.1	5.4
16-Feb	0.0	2.1	Z	2.6	0.8	1.7	0.2	2.3	5.4	13.9	34.6	48.8	32.1	23.4	13.3	2.9	1.2	0.6	0.0	0.1	0.0	1.5	1.6	1.5	8.3	48.8
17-Feb	1.1	0.0	0.0	Z	0.3	0.0	0.0	0.0	0.5	1.0	0.8	0.4	0.8	1.4	1.1	0.8	0.3	0.0	0.0	0.0	0.0	0.2	0.3	0.5	0.4	1.4
18-Feb	0.6	1.5	1.4	2.2	Z	2.7	1.5	1.6	2.0	2.7	2.6	2.8	1.5	1.5	1.6	1.5	2.7	2.2	1.9	0.7	5.8	7.0	9.7	11.2	3.0	11.2
19-Feb	14.2	18.3	28.4	32.2	44.8	Z	42.0	26.9	25.5	21.9	18.0	14.7	12.3	11.1	7.1	5.2	2.9	1.0	1.5	4.9	1.4	1.8	1.3	1.6	14.7	44.8
20-Feb	Z	0.6	0.5	0.6	1.0	1.0	2.1	6.9	13.5	14.7	17.9	14.9	16.9	20.5	15.7	20.4	23.9	4.5	0.0	0.0	0.0	0.1	0.5	1.6	7.7	23.9
21-Feb	0.2	Z	2.1	3.4	1.0	2.3	4.5	18.1	16.3	12.9	15.7	12.7	12.8	9.8	1.7	1.1	0.6	0.6	0.0	0.0	0.0	0.4	0.6	0.5	5.1	18.1
22-Feb	0.8	2.2	Z	1.2	3.4	4.1	3.6	4.5	8.3	17.9	21.1	21.2	22.9	24.3	22.4	18.9	15.2	8.8	9.0	16.9	20.3	18.5	18.8	18.2	13.2	24.3
23-Feb	17.3	16.8	13.9	Z	2.4	0.1	0.0	0.6	2.9	3.8	6.2	10.1	12.4	4.4	2.6	4.7	17.1	29.4	24.7	13.9	8.2	4.3	4.0	13.6	9.3	29.4
24-Feb	16.6	16.3	29.9	36.1	Z	40.8	49.6	54.9	65.3	49.3	25.9	18.3	12.1	6.5	M	M	3.8	1.0	0.1	0.9	4.0	4.7	1.4	0.4	20.9	65.3
25-Feb	0.0	0.0	0.0	0.0	0.3	Z	3.0	6.5	15.3	22.5	21.0	10.1	7.6	8.5	8.5	6.0	3.8	15.6	21.4	2.7	0.0	0.0	0.0	0.0	6.6	22.5
26-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.5	1.6	1.8	2.0	2.0	1.2	1.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.0
27-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.7	1.4	3.7	4.8	6.1	8.2	9.7	10.3	11.7	8.6	5.6	1.1	0.6	2.3	3.3	5.1	8.1	4.0	11.7
28-Feb	12.0	12.4	Z	21.0	27.6	46.1	55.2	46.5	31.4	29.2	18.9	13.8	15.4	12.2	4.0	2.0	1.5	0.8	0.1	0.1	0.3	0.3	0.3	1.6	15.3	55.2
	5.4	6.4	6.6	6.6	5.9	6.9	8.0	10.4	10.8	12.8	12.9	12.5	12.2	10.5	7.2	5.7	6.5	5.8	5.8	3.7	4.1	2.8	3.5	4.0	Diurnal Average	
	44.8	53.7	44.0	36.1	44.8	46.1	55.2	54.9	65.3	67.4	61.5	48.8	60.2	50.8	35.8	25.9	76.0	84.9	91.8	49.7	48.0	18.5	24.3	23.3	Diurnal Maximum	

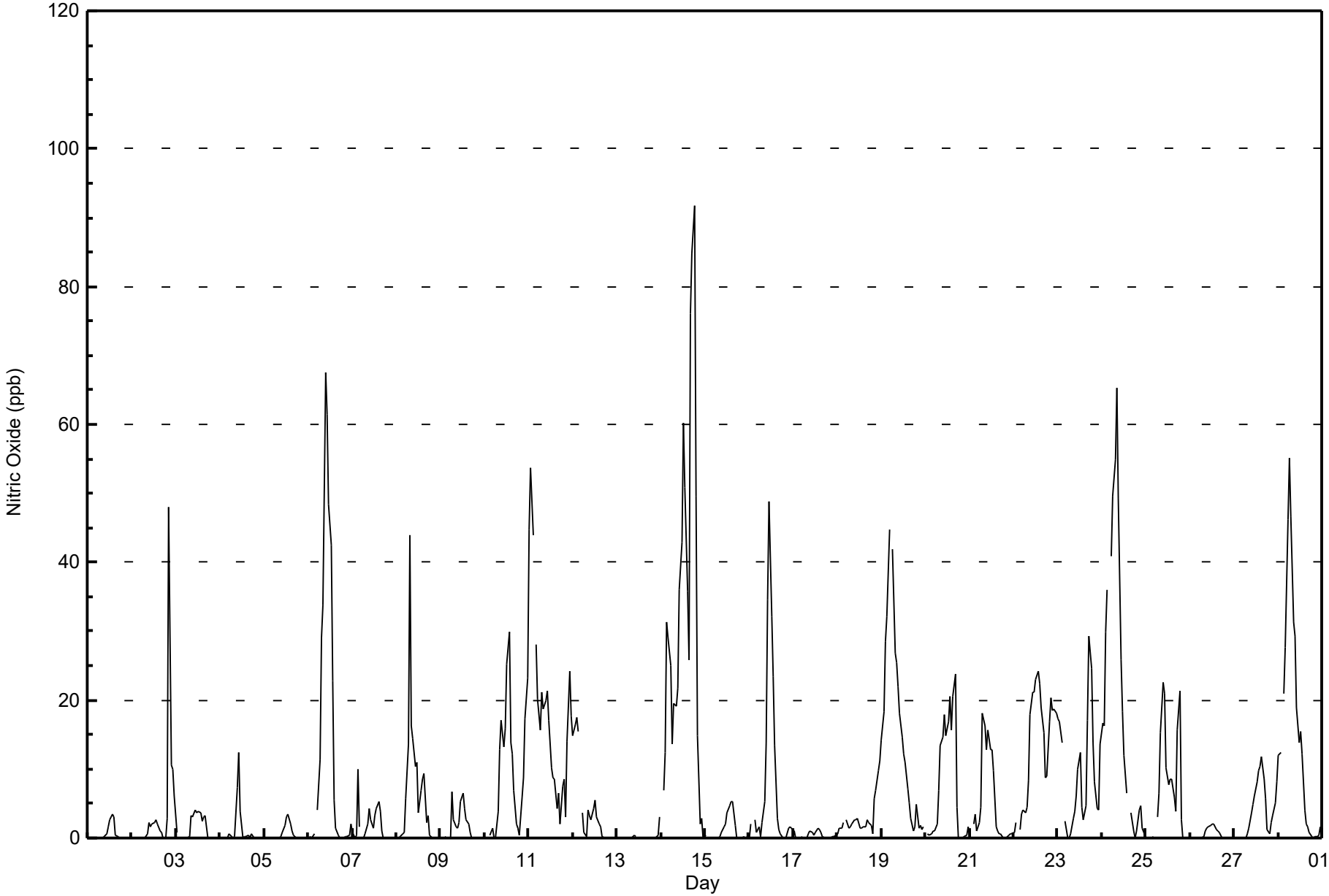
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Fort McKay - Bertha Ganter - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	566	88.85	88.85
21 - 40	44	6.91	95.76
11 - 80	25	3.92	99.69
81 - 159	2	0.31	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	123	121	34	15	6	2	10	51	93	18	21	8	13	15	14	18	562
21 - 40	8	3	3	2	1	1	0	8	13	2	1	0	0	0	1	1	44
11 - 80	4	3	0	1	1	0	1	0	9	3	0	0	0	0	2	0	24
81 - 159	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	136	127	37	18	8	3	11	59	115	23	22	8	13	15	17	20	632

Total Number of Valid Hours: 632

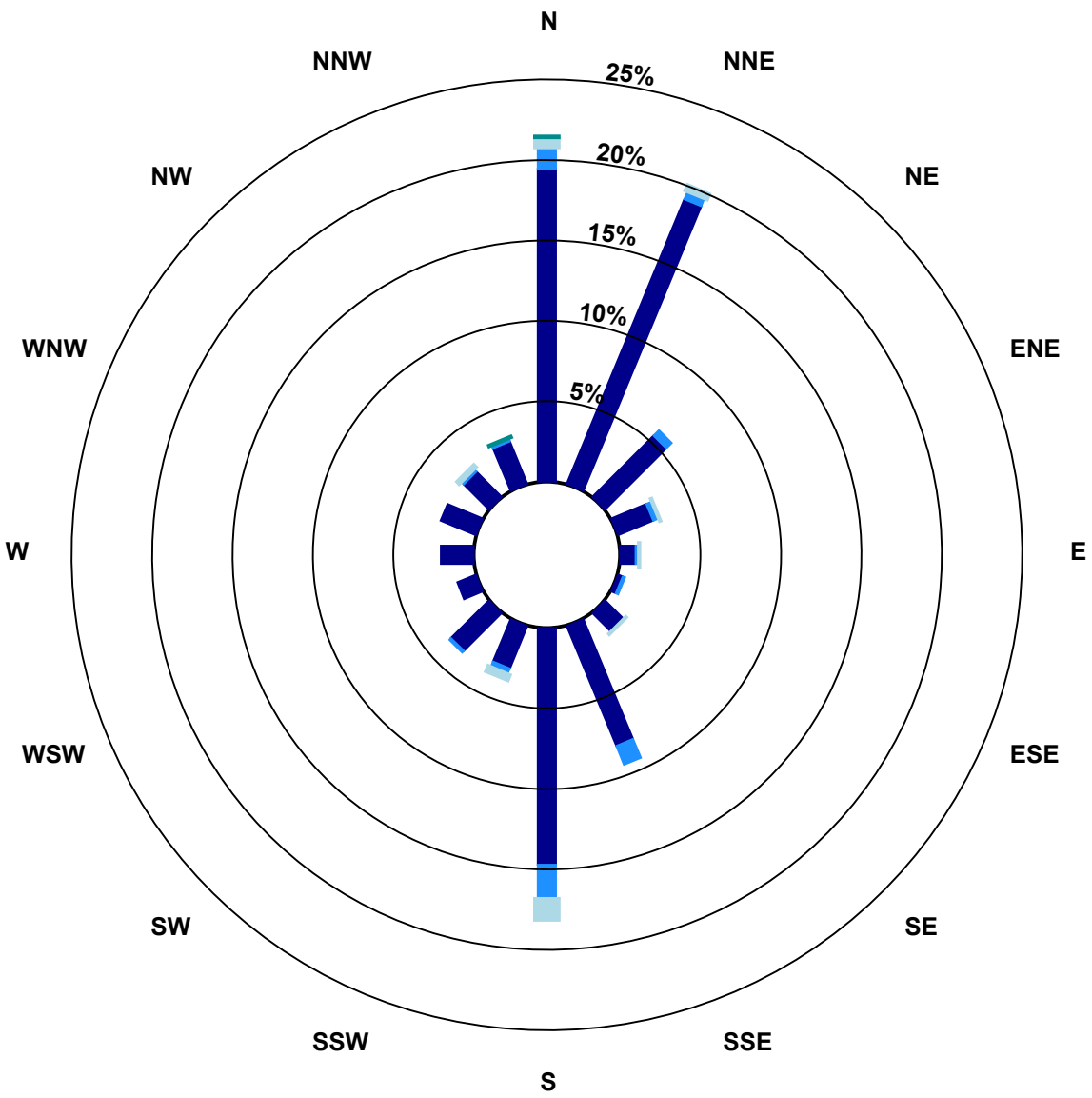
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Fort McKay - Bertha Ganter



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

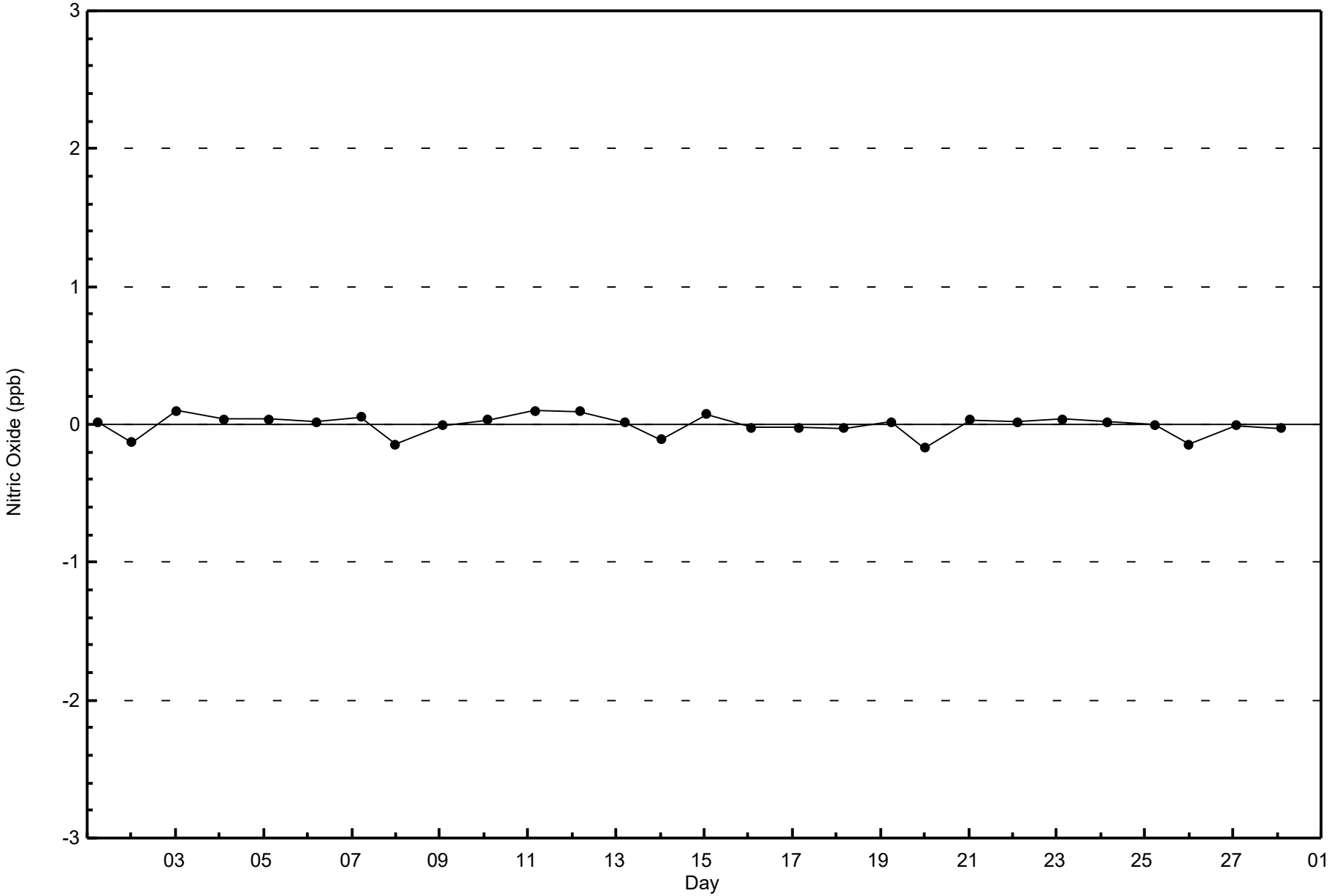
Total Number of Valid Hours: 632

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Fort McKay - Bertha Ganter - February 2026

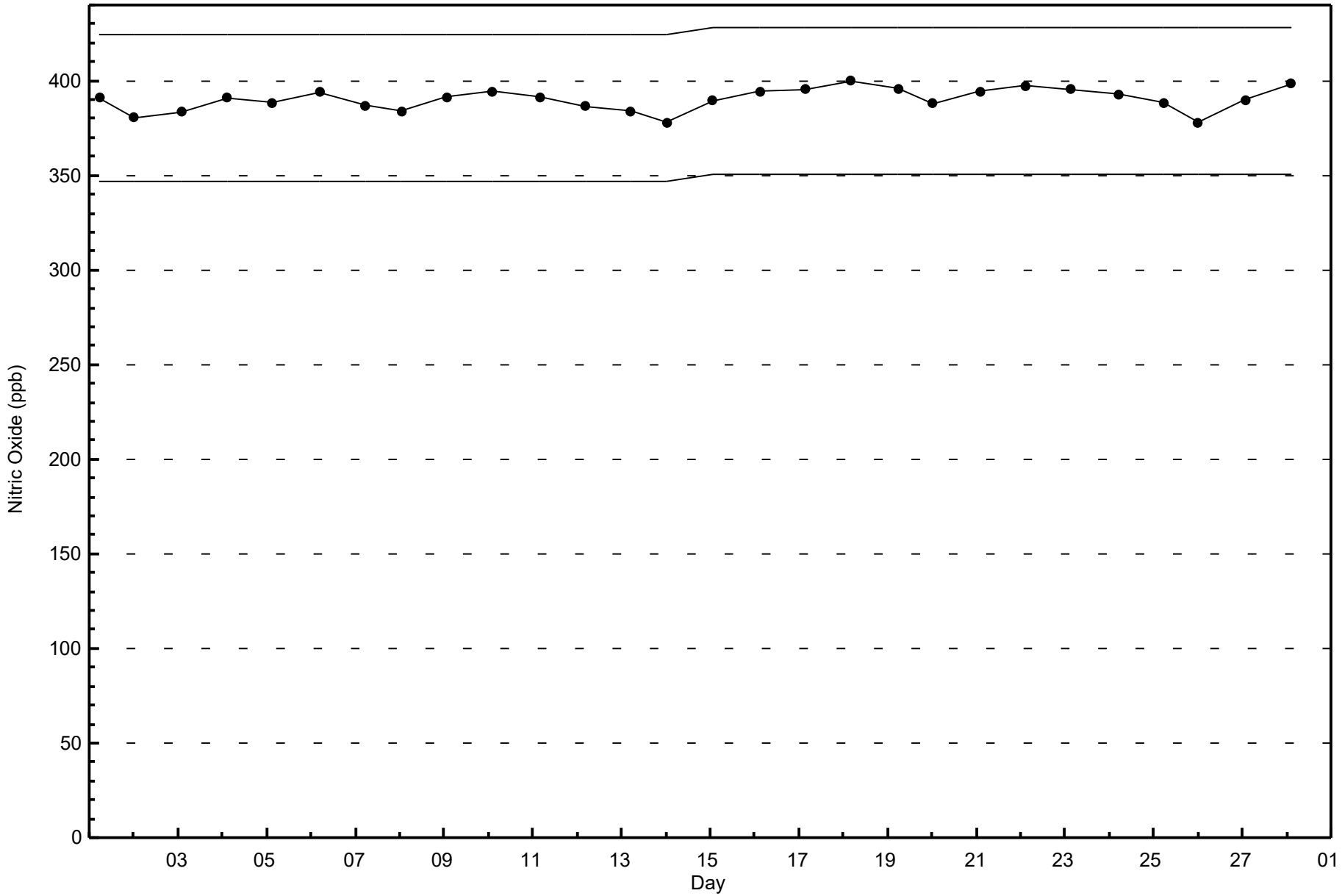


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Fort McKay - Bertha Ganter - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 50.7 ppb on Feb 14 18:00 Maximum Daily Average: 32.8 ppb on Feb 14

Minimum Value: 0.3 ppb on Feb 13 05:00 Minimum Daily Average: 2.6 ppb on Feb 18
Maximum Diurnal Average: 17.5 ppb at hour 6 Minimum Diurnal Average: 9.3 ppb at hour 15
Monthly Average: 14.06 ppb Percentiles: P_1 = 0.8 P_{10} = 3.8 Q_1 = 6.6 Median = 11.4 Q_3 = 21.0 P_{90} = 27.7 P_{99} = 37.2

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	33
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	7.9	7.8	1.7	0.8	1.5	Z	3.9	6.4	8.1	3.4	4.1	7.1	7.6	9.4	9.6	4.8	6.2	3.6	1.8	4.0	6.0	6.0	9.5	14.3	5.9	14.3
2-Feb	Z	3.1	2.7	3.0	3.3	9.0	9.2	6.9	16.0	12.9	7.2	6.9	7.5	7.4	6.8	7.3	9.8	11.1	8.5	12.8	28.0	27.3	27.8	26.0	11.3	28.0
3-Feb	20.2	Z	11.4	10.5	8.1	11.9	9.6	8.3	10.0	8.4	12.6	13.0	8.7	9.4	10.0	11.9	14.2	13.6	16.3	14.4	12.9	16.1	18.2	13.7	12.3	20.2
4-Feb	3.9	3.1	Z	3.9	5.6	9.2	8.6	8.2	4.4	11.5	13.0	5.4	1.3	1.2	1.8	3.1	2.4	11.6	3.1	3.9	5.4	7.7	7.0	3.6	5.6	13.0
5-Feb	7.7	7.5	4.9	Z	4.0	4.2	5.4	3.7	3.4	4.6	4.8	6.0	8.2	9.5	7.1	6.8	8.3	8.8	8.5	14.9	8.1	10.9	17.2	23.9	8.2	23.9
6-Feb	22.6	27.6	22.2	28.7	Z	34.1	35.0	36.8	35.8	37.9	37.1	33.9	32.0	25.8	18.8	11.1	7.6	6.1	7.2	17.9	21.4	21.5	21.4	23.4	24.6	37.9
7-Feb	22.0	20.0	18.7	22.1	17.9	Z	12.1	11.1	7.0	6.8	6.2	4.7	7.1	6.4	6.2	6.4	6.9	6.2	12.3	14.5	13.6	14.6	14.4	21.9	12.1	22.1
8-Feb	Z	21.0	25.5	26.1	23.1	32.8	33.2	34.6	27.4	23.4	17.6	17.2	6.5	8.0	10.3	9.4	5.7	20.4	21.5	16.3	11.4	10.6	9.8	12.3	18.4	34.6
9-Feb	11.0	Z	20.2	23.1	17.2	10.4	24.3	20.8	11.6	8.0	9.1	12.9	12.2	9.9	8.7	10.1	8.9	14.2	12.5	12.3	11.8	16.5	14.7	11.2	13.5	24.3
10-Feb	19.4	26.6	Z	29.1	36.2	30.6	24.5	34.7	34.7	29.1	19.4	20.8	23.8	24.3	17.0	17.9	19.5	18.6	19.3	17.8	23.6	23.5	22.6	23.6	24.2	36.2
11-Feb	25.5	27.0	25.8	Z	23.5	26.0	24.9	25.9	25.7	23.6	21.0	16.7	14.3	13.6	14.9	13.1	25.7	29.6	36.0	30.2	28.0	25.4	29.6	28.6	24.1	36.0
12-Feb	27.8	28.2	27.3	26.9	Z	19.7	13.5	11.1	12.2	9.8	6.3	8.2	10.1	8.2	10.3	13.2	9.1	8.5	7.0	5.7	4.4	5.2	6.4	5.6	12.4	28.2
13-Feb	6.5	2.0	3.7	8.2	0.3	Z	0.3	0.4	1.7	4.1	1.0	C	C	C	C	C	1.1	3.9	15.7	10.1	20.8	15.3	22.6	26.4	8.0	26.4
14-Feb	Z	24.9	26.8	30.9	35.2	36.2	35.9	37.3	29.6	24.3	23.3	23.4	32.3	32.0	29.6	29.9	46.3	50.7	46.6	39.7	34.0	26.5	30.8	27.5	32.8	50.7
15-Feb	24.6	Z	12.1	11.4	10.6	6.7	6.0	5.2	5.9	5.4	5.6	4.9	5.3	6.4	7.6	9.7	7.9	6.2	11.0	13.1	14.8	20.7	15.5	18.0	10.2	24.6
16-Feb	17.9	19.6	Z	20.0	18.2	17.7	16.7	17.5	11.8	10.4	14.5	23.5	17.3	13.7	9.4	4.0	3.8	6.0	5.6	9.2	5.5	13.4	13.7	14.1	13.2	23.5
17-Feb	12.4	7.1	5.4	Z	8.5	5.8	4.8	3.9	3.8	2.7	1.6	0.8	1.7	3.0	3.5	4.0	4.6	5.6	5.6	4.7	4.3	5.3	3.3	2.5	4.6	12.4
18-Feb	1.6	1.1	1.0	1.1	Z	1.4	0.9	0.8	1.1	1.2	1.1	1.1	0.5	0.5	0.7	1.0	2.2	3.4	5.0	5.0	6.6	6.7	7.1	7.8	2.6	7.8
19-Feb	8.3	9.2	10.7	10.2	11.4	Z	12.3	10.5	8.5	6.2	5.0	4.3	4.1	4.7	4.8	5.8	7.2	10.2	19.7	27.6	24.3	24.4	25.4	23.1	12.1	27.6
20-Feb	Z	25.5	25.8	24.8	24.8	23.3	26.0	28.1	22.8	17.3	16.4	13.3	14.1	17.4	17.0	23.5	32.3	26.0	11.6	10.0	13.0	18.3	20.8	23.9	20.7	32.3
21-Feb	19.2	Z	21.8	21.2	19.3	22.2	22.7	24.4	21.3	15.5	14.3	12.4	12.4	10.8	3.4	3.4	3.9	11.3	10.8	7.0	6.5	8.8	8.4	7.7	13.4	24.4
22-Feb	8.7	10.4	Z	8.0	7.8	7.6	6.9	7.0	6.1	7.1	8.1	8.1	8.4	10.1	10.4	11.2	12.8	15.6	18.9	20.5	21.7	22.8	23.5	22.8	12.4	23.5
23-Feb	22.7	22.9	23.1	Z	22.5	16.1	11.5	14.0	12.4	8.8	7.6	9.2	9.5	6.8	6.2	10.1	23.9	34.2	36.4	35.5	33.1	30.8	29.5	30.2	19.9	36.4
24-Feb	27.9	26.5	29.4	30.4	Z	29.9	31.8	32.8	31.0	24.5	14.8	11.1	8.5	5.8	M	M	9.4	11.2	17.7	27.8	30.6	27.4	27.2	20.5	22.7	32.8
25-Feb	15.3	11.8	11.3	14.4	19.0	Z	22.7	23.1	18.7	17.6	17.0	10.9	9.8	13.4	14.5	14.8	17.2	28.9	38.4	27.4	14.4	6.4	8.5	11.0	16.8	38.4
26-Feb	Z	11.2	12.8	12.6	12.1	16.4	17.5	16.3	11.1	9.7	7.3	6.5	5.1	4.3	3.0	3.6	4.8	1.6	3.8	1.3	2.7	7.0	7.6	6.6	8.0	17.5
27-Feb	7.6	Z	4.8	7.3	5.4	6.6	9.2	8.0	4.1	3.9	3.1	3.1	4.0	4.5	5.3	6.9	7.2	10.0	9.7	12.4	14.1	16.9	17.1	17.3	8.2	17.3
28-Feb	17.6	17.3	Z	17.6	18.7	24.4	24.7	26.9	20.6	15.9	10.4	8.2	9.4	8.9	4.4	3.5	4.9	8.7	12.3	15.6	17.0	16.8	21.7	20.5	15.0	26.9
	15.6	15.7	15.2	16.3	14.8	17.5	16.2	16.6	14.5	12.6	11.1	10.9	10.4	10.2	9.3	9.5	11.2	13.8	15.1	15.4	15.6	16.2	17.2	17.4	Diurnal Average	
	27.9	28.2	29.4	30.9	36.2	36.2	35.9	37.3	35.8	37.9	37.1	33.9	32.3	32.0	29.6	29.9	46.3	50.7	46.6	39.7	34.0	30.8	30.8	30.2	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Fort McKay - Bertha Ganter - February 2026



Nitrogen Dioxide (NO_2) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	467	73.31	73.31
21 - 40	167	26.22	99.53
11 - 80	3	0.47	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	101	110	30	16	6	3	7	54	70	7	18	8	10	9	7	9	465
21 - 40	33	17	7	2	2	0	4	5	45	16	4	0	3	6	10	10	164
11 - 80	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	136	127	37	18	8	3	11	59	115	23	22	8	13	15	17	20	632

Total Number of Valid Hours: 632

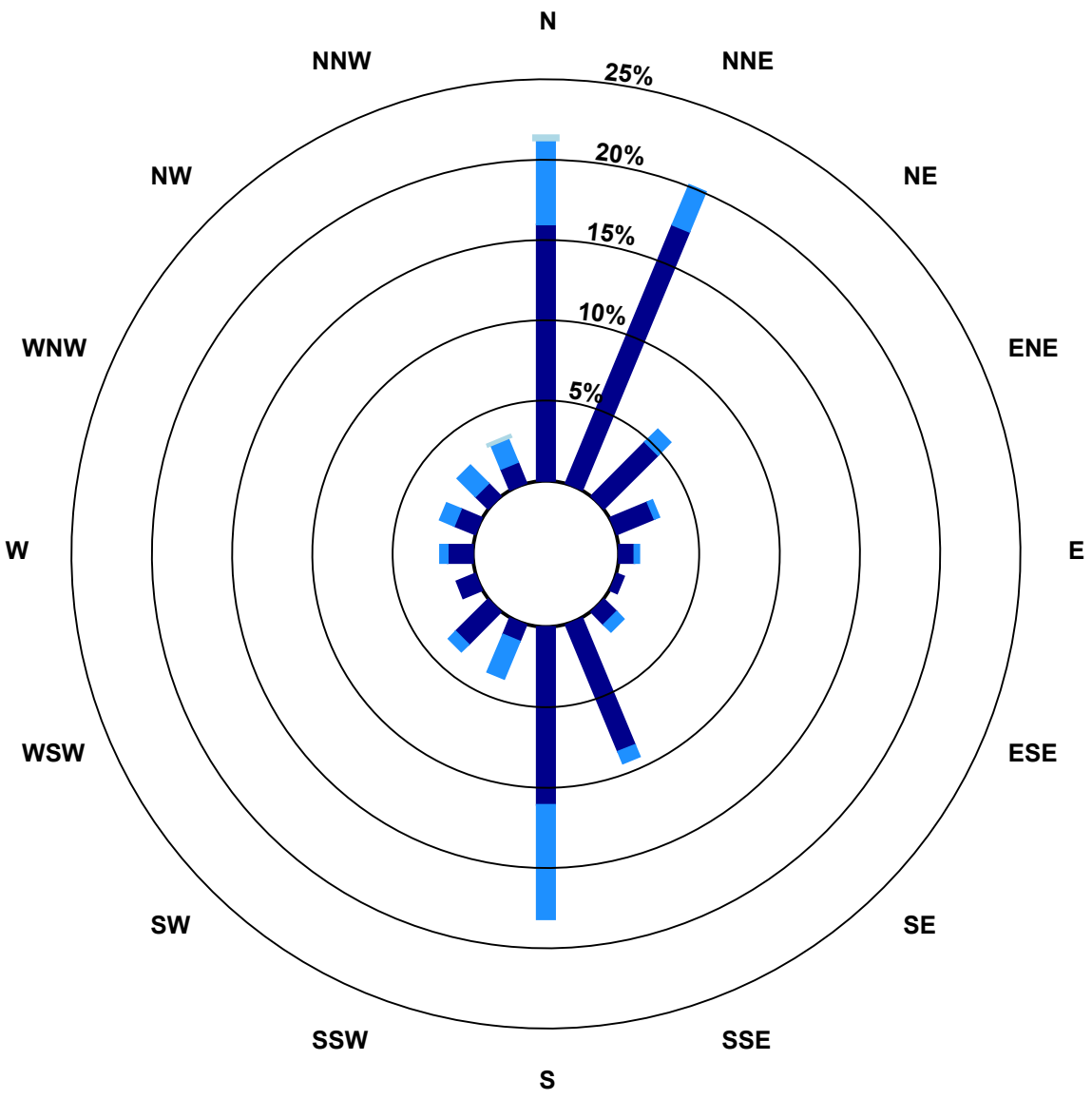
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Fort McKay - Bertha Ganter



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

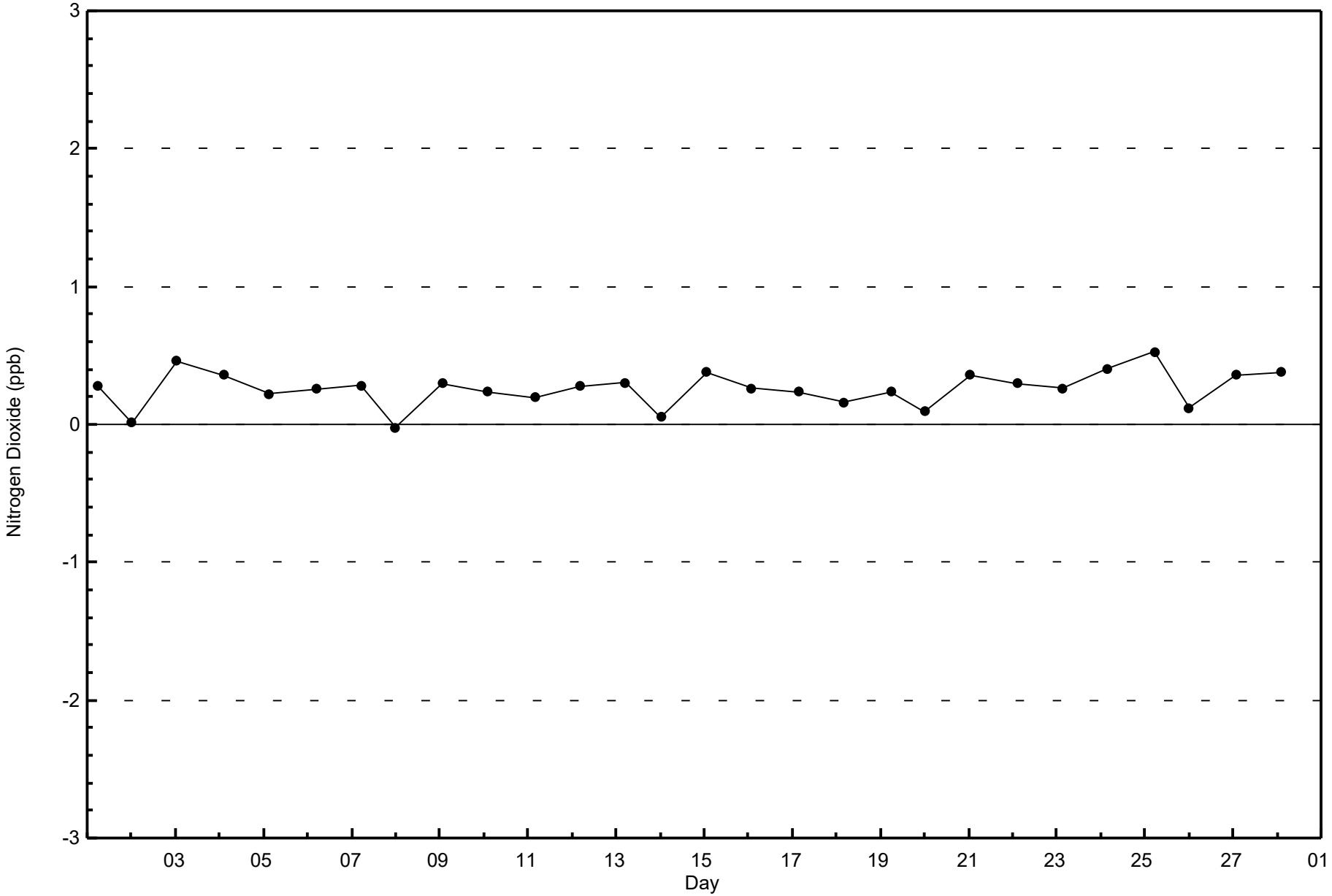
Total Number of Valid Hours: 632

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Fort McKay - Bertha Ganter - February 2026

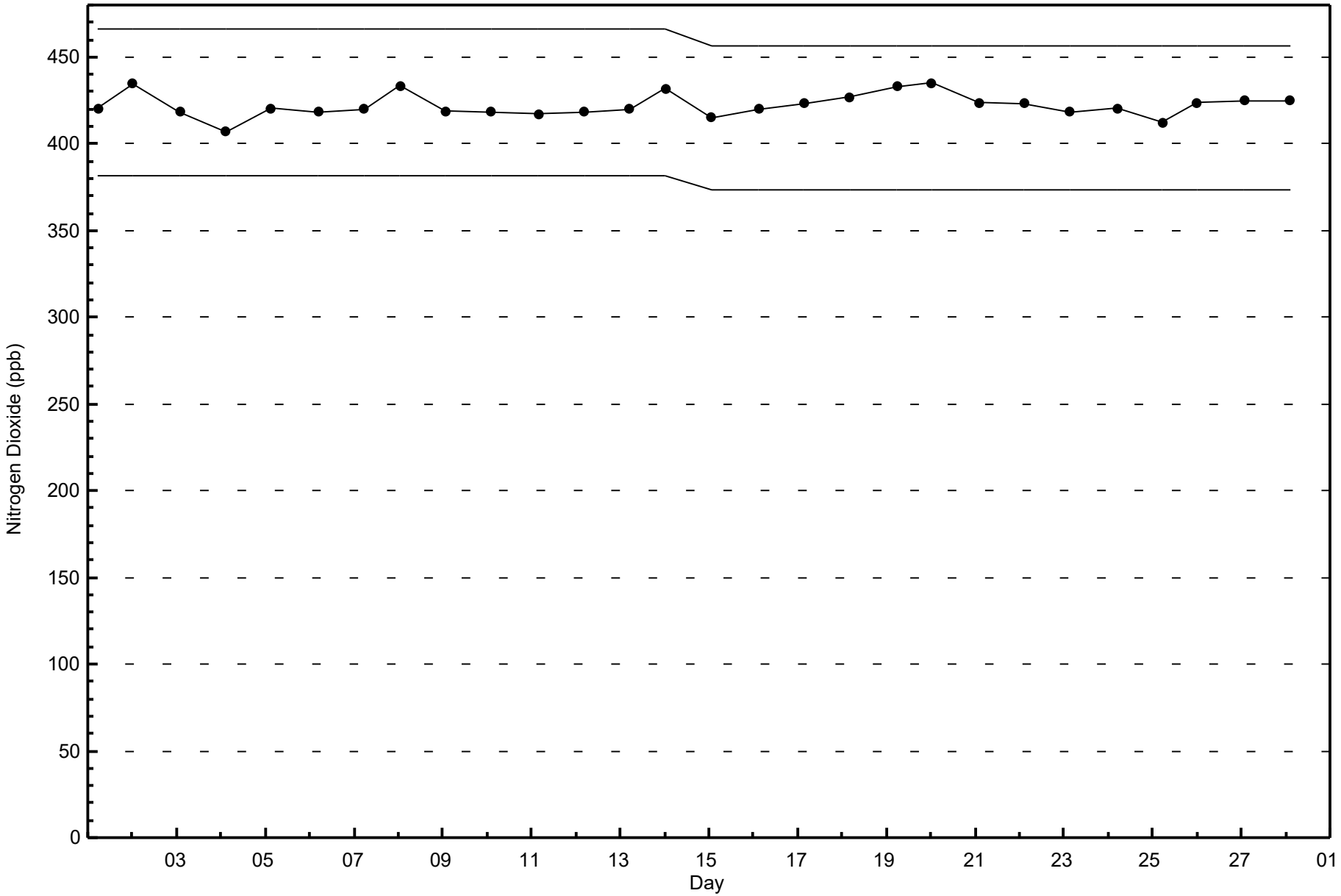


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Fort McKay - Bertha Ganter - February 2026

Maximum Value: 138.4 ppb on Feb 14 19:00

Maximum Daily Average: 65.5 ppb on Feb 14

Minimum Value: 0.3 ppb on Feb 13 05:00

Minimum Daily Average: 5.0 ppb on Feb 17

Maximum Diurnal Average: 27.0 ppb at hour 8

Minimum Diurnal Average: 15.2 ppb at hour 16

Monthly Average: 21.46 ppb

Percentiles: P_1 = 1.2 P_{10} = 4.3 Q_1 = 8.2 Median = 14.9 Q_3 = 28.6 P_{90} = 45.5 P_{99} = 91.4

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	33
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	7.9	7.8	1.7	0.8	1.5	Z	3.9	6.4	8.1	3.6	4.7	8.7	10.2	12.8	12.7	5.3	6.4	3.6	1.8	4.0	6.0	6.0	9.5	14.4	6.4	14.4
2-Feb	Z	3.1	2.7	3.0	3.3	9.0	9.2	6.9	16.6	15.1	8.9	9.0	9.8	10.1	8.8	8.3	10.7	11.1	8.5	15.7	76.0	37.8	37.7	32.1	15.4	76.0
3-Feb	20.9	Z	11.4	10.5	8.1	11.9	9.6	8.4	13.2	11.4	16.6	16.7	12.6	13.1	12.4	15.0	17.5	13.6	16.3	14.4	12.9	16.1	18.2	13.7	13.7	20.9
4-Feb	3.9	3.1	Z	3.9	5.6	9.7	8.7	8.2	4.5	18.9	25.5	9.3	1.4	1.4	1.9	3.4	2.4	12.2	3.1	3.9	5.4	7.7	7.0	3.6	6.7	25.5
5-Feb	7.7	7.5	4.9	Z	4.0	4.2	5.4	3.7	3.4	4.9	5.6	7.8	11.3	12.9	9.0	7.8	8.8	8.8	8.5	14.9	8.1	10.9	17.2	23.9	8.7	23.9
6-Feb	22.6	27.8	22.2	29.3	Z	38.2	46.3	65.8	69.6	105.3	98.6	82.4	74.4	48.7	24.2	12.4	7.9	6.1	7.2	18.0	21.6	21.8	21.9	25.4	39.0	105.3
7-Feb	22.9	20.1	19.1	32.1	19.5	Z	12.1	11.7	8.9	11.1	8.8	6.1	10.3	10.6	11.5	10.3	8.0	6.2	12.3	14.5	13.6	14.6	14.4	22.0	13.9	32.1
8-Feb	Z	21.1	25.7	26.6	23.8	38.6	46.8	78.4	43.8	37.9	27.9	28.2	10.2	14.9	18.8	18.8	8.0	23.6	21.9	16.3	11.4	10.6	9.8	12.3	25.0	78.4
9-Feb	11.0	Z	20.4	23.1	17.2	10.4	31.0	23.5	13.3	9.4	11.4	18.2	18.7	14.2	11.4	12.1	9.7	14.2	12.5	12.3	11.8	16.5	14.7	11.2	15.1	31.0
10-Feb	19.4	26.6	Z	29.5	37.7	30.7	24.5	38.5	47.5	46.2	32.7	36.7	49.0	54.2	30.8	30.2	26.4	20.7	20.7	18.1	29.6	32.3	40.0	46.9	33.4	54.2
11-Feb	70.3	80.7	69.8	Z	51.5	46.2	40.6	47.0	44.5	43.6	42.4	33.8	24.4	22.4	23.3	17.3	32.2	31.6	43.5	38.6	31.0	39.4	53.9	46.2	42.4	80.7
12-Feb	42.7	44.7	44.7	42.4	Z	23.3	14.4	11.4	16.3	13.1	8.9	12.5	15.6	11.3	12.3	14.7	9.4	8.5	7.0	5.7	4.4	5.2	6.4	5.6	16.5	44.7
13-Feb	6.5	2.0	3.7	8.2	0.3	Z	0.3	0.4	1.7	4.5	1.1	C	C	C	C	C	1.1	3.9	15.7	10.1	20.8	15.3	22.9	29.5	8.2	29.5
14-Feb	Z	31.8	39.2	62.2	64.2	61.2	49.6	56.9	48.7	46.1	59.2	66.4	92.5	82.8	65.4	55.8	122.3	135.6	138.4	89.4	48.8	28.4	33.7	27.6	65.5	138.4
15-Feb	25.0	Z	12.1	11.4	10.6	6.7	6.0	5.2	6.1	6.2	7.3	6.9	8.9	11.0	12.9	15.1	9.7	6.3	11.0	13.1	14.8	20.8	15.5	18.2	11.3	25.0
16-Feb	17.9	21.7	Z	22.6	19.1	19.4	16.9	19.8	17.2	24.3	49.1	72.3	49.4	37.1	22.7	6.9	5.0	6.6	5.6	9.3	5.5	14.9	15.3	15.6	21.5	72.3
17-Feb	13.5	7.1	5.4	Z	8.8	5.8	4.8	3.9	4.3	3.7	2.4	1.2	2.5	4.4	4.6	4.8	4.9	5.6	5.6	4.7	4.3	5.5	3.6	3.0	5.0	13.5
18-Feb	2.2	2.6	2.4	3.3	Z	4.1	2.4	2.4	3.1	3.9	3.7	3.9	2.0	2.0	2.3	2.5	4.9	5.6	6.9	5.7	12.4	13.7	16.8	19.0	5.6	19.0
19-Feb	22.5	27.5	39.1	42.4	56.2	Z	54.3	37.4	34.0	28.1	23.0	19.0	16.4	15.8	11.9	11.0	10.1	11.2	21.2	32.5	25.7	26.2	26.7	24.7	26.8	56.2
20-Feb	Z	26.1	26.3	25.4	25.8	24.3	28.1	35.0	36.3	32.0	34.3	28.2	31.0	37.9	32.7	43.9	56.2	30.5	11.6	10.0	13.0	18.4	21.3	25.5	28.4	56.2
21-Feb	19.4	Z	23.9	24.6	20.3	24.5	27.2	42.5	37.6	28.4	30.0	25.1	25.2	20.6	5.1	4.5	4.5	11.9	10.8	7.0	6.5	9.2	9.0	8.2	18.5	42.5
22-Feb	9.5	12.6	Z	9.2	11.2	11.7	10.5	11.5	14.4	25.0	29.2	29.3	31.3	34.4	32.8	30.1	28.0	24.4	27.9	37.4	42.0	41.3	42.3	41.0	25.5	42.3
23-Feb	40.0	39.7	37.0	Z	24.9	16.2	11.5	14.6	15.3	12.6	13.8	19.3	21.9	11.2	8.8	14.8	41.0	63.6	61.1	49.4	41.3	35.1	33.5	43.8	29.1	63.6
24-Feb	44.5	42.8	59.3	66.5	Z	70.7	81.4	87.7	96.3	73.8	40.7	29.4	20.6	12.3	M	M	13.2	12.2	17.8	28.7	34.6	32.1	28.6	20.9	43.5	96.3
25-Feb	15.3	11.8	11.3	14.4	19.3	Z	25.7	29.6	34.0	40.1	38.0	21.0	17.4	21.9	23.0	20.8	21.0	44.5	59.8	30.1	14.4	6.4	8.5	11.0	23.5	59.8
26-Feb	Z	11.2	12.8	12.6	12.1	16.4	17.5	16.6	12.1	11.2	8.9	8.3	7.1	6.3	4.2	4.6	5.6	1.6	3.8	1.3	2.7	7.0	7.6	6.6	8.6	17.5
27-Feb	7.6	Z	4.8	7.3	5.4	6.6	9.2	8.7	5.5	7.6	7.9	9.2	12.2	14.2	15.6	18.6	15.8	15.6	10.8	13.0	16.4	20.2	22.2	25.4	12.2	25.4
28-Feb	29.6	29.7	Z	38.6	46.3	70.5	79.9	73.4	52.0	45.1	29.3	22.0	24.8	21.1	8.4	5.5	6.4	9.5	12.4	15.7	17.3	17.1	22.0	22.1	30.4	79.9
	21.0	22.1	21.7	22.9	20.7	24.4	24.2	27.0	25.3	25.5	23.9	23.4	22.6	20.7	16.4	15.2	17.8	19.6	20.9	19.1	19.7	18.9	20.7	21.4	Diurnal Average	
	70.3	80.7	69.8	66.5	64.2	70.7	81.4	87.7	96.3	105.3	98.6	82.4	92.5	82.8	65.4	55.8	122.3	135.6	138.4	89.4	76.0	41.3	53.9	46.9	Diurnal Maximum	

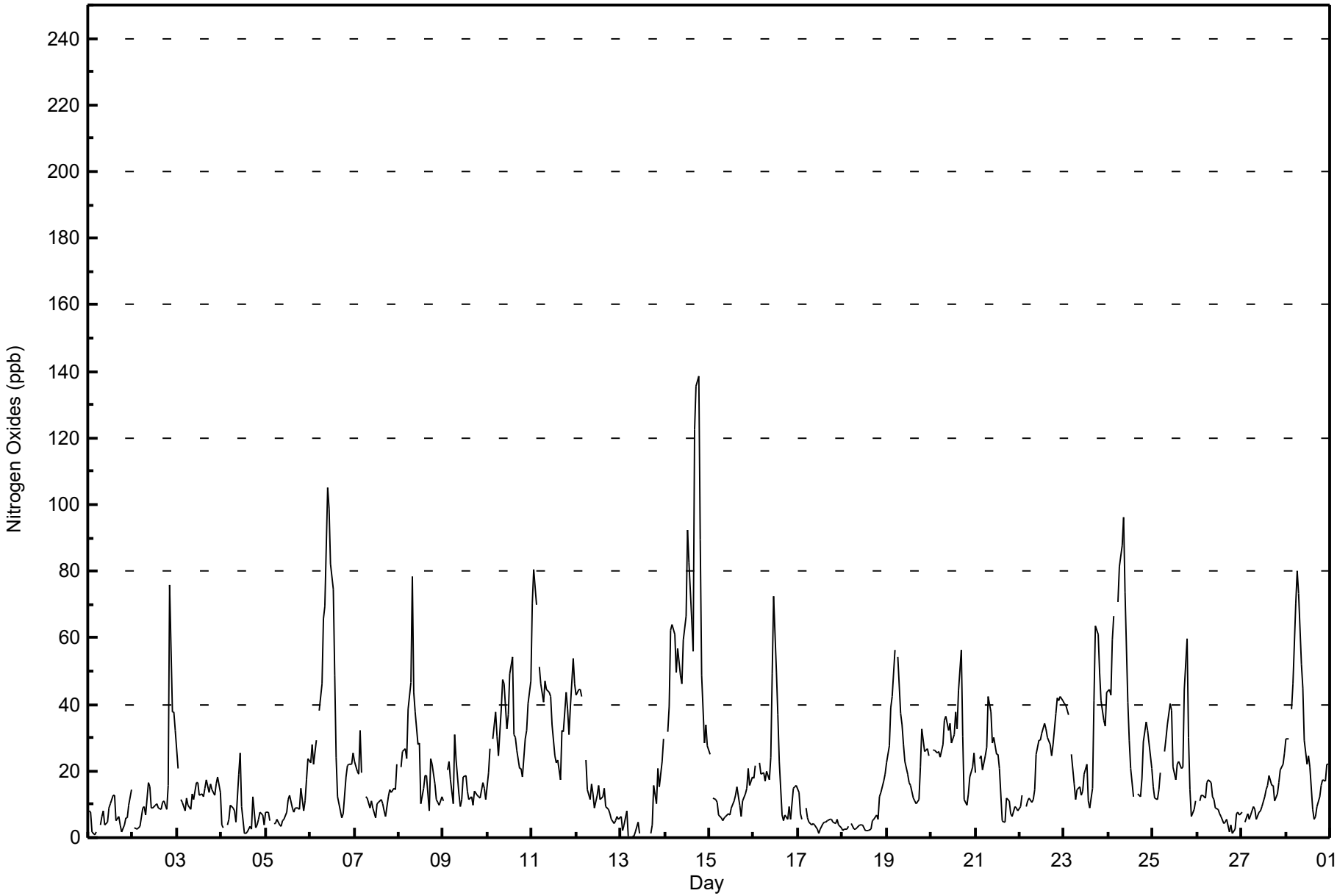
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Fort McKay - Bertha Ganter - February 2026



Nitrogen Oxides (NO_X) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	388	60.91	60.91
21 - 40	160	25.12	86.03
11 - 80	76	11.93	97.96
81 - 159	11	1.73	99.69
> 159	0	0.00	99.69

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	88	106	29	12	6	2	6	38	47	3	14	8	6	7	7	7	386
21 - 40	33	15	3	3	0	1	3	15	44	10	5	0	7	6	6	9	160
11 - 80	11	5	5	3	1	0	1	6	23	8	3	0	0	2	3	3	74
81 - 159	4	1	0	0	1	0	1	0	0	1	0	0	0	0	1	1	10
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	136	127	37	18	8	3	11	59	114	22	22	8	13	15	17	20	630

Total Number of Valid Hours: 632

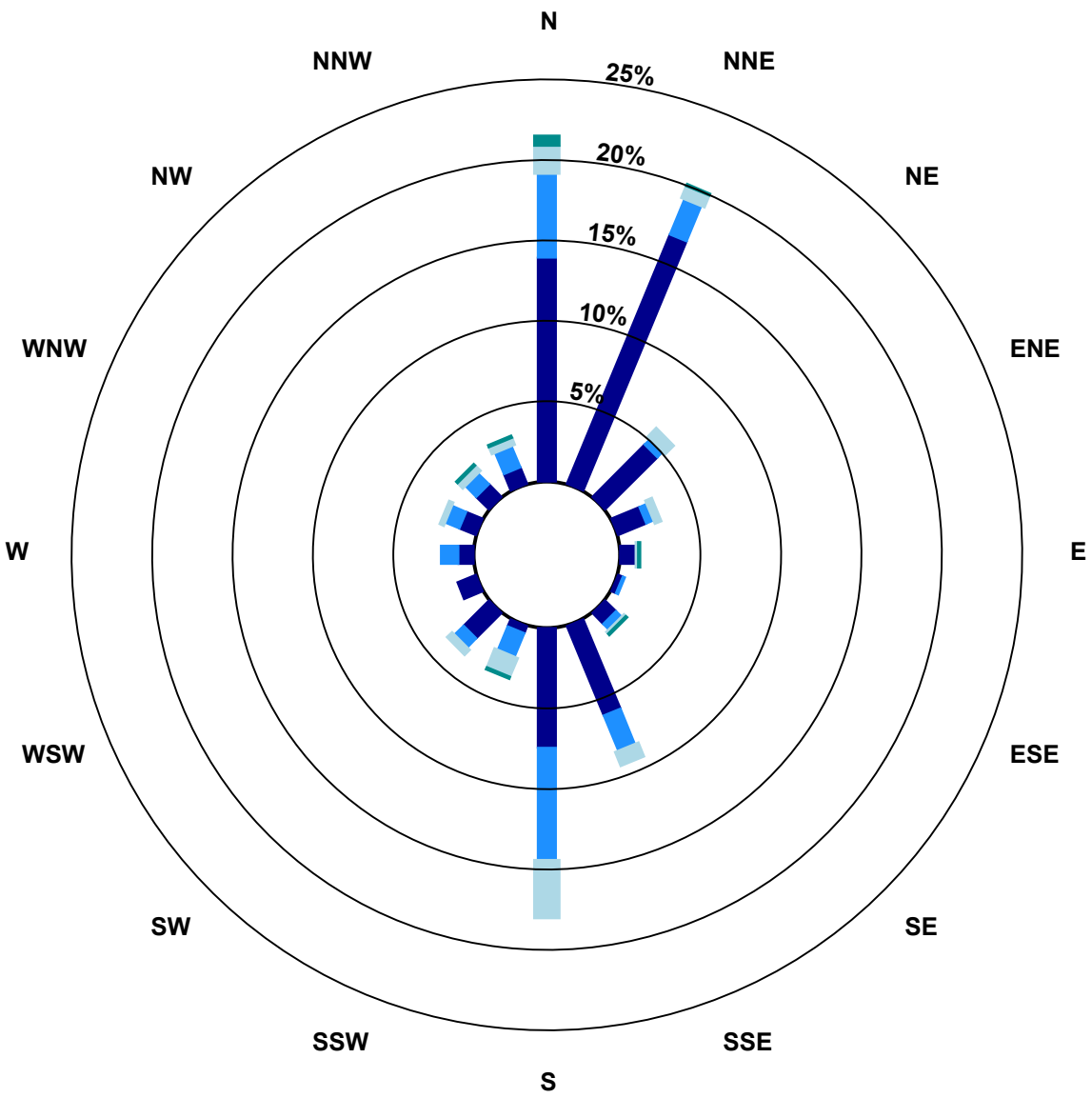
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Fort McKay - Bertha Ganter



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

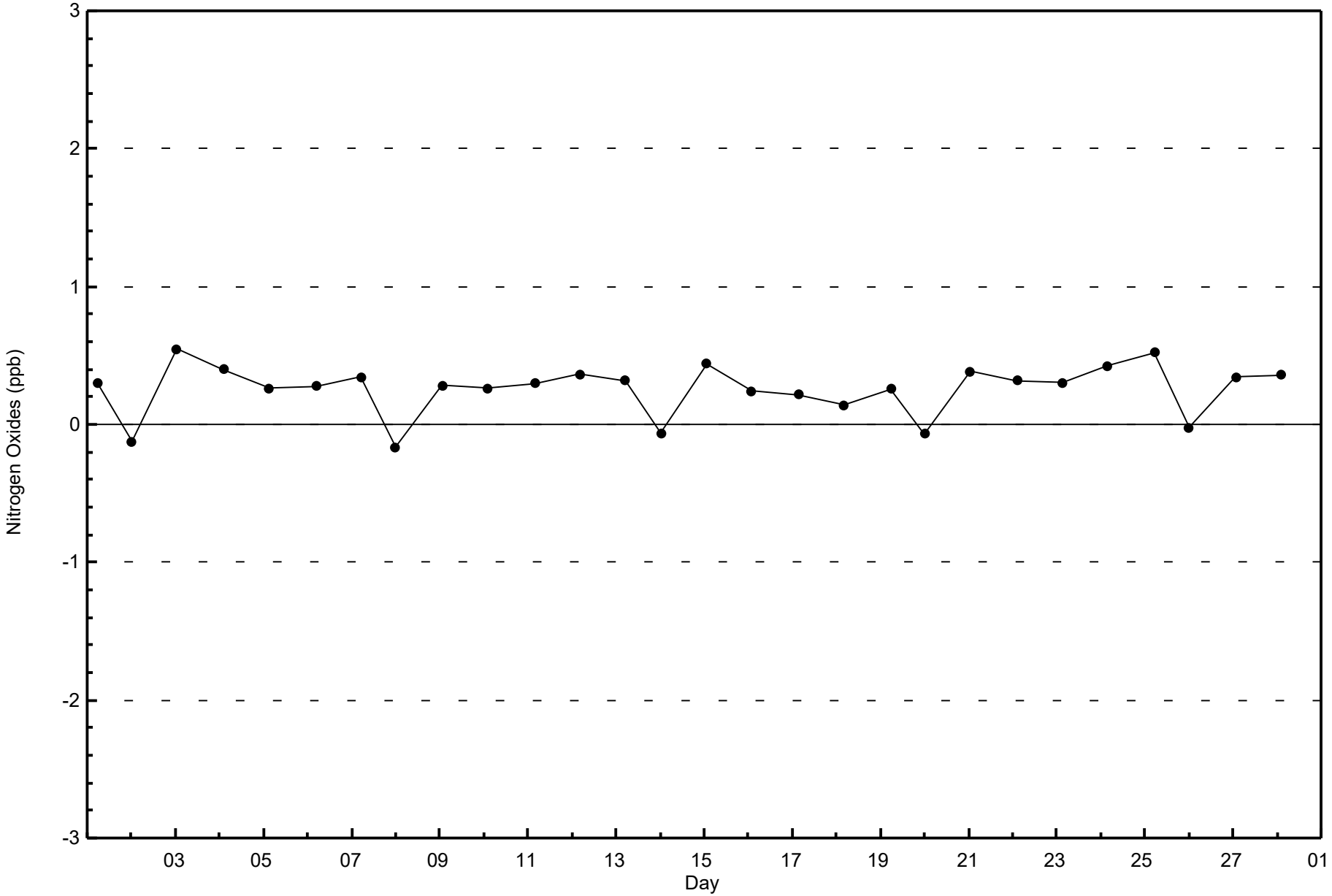
Total Number of Valid Hours: 632

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Fort McKay - Bertha Ganter - February 2026

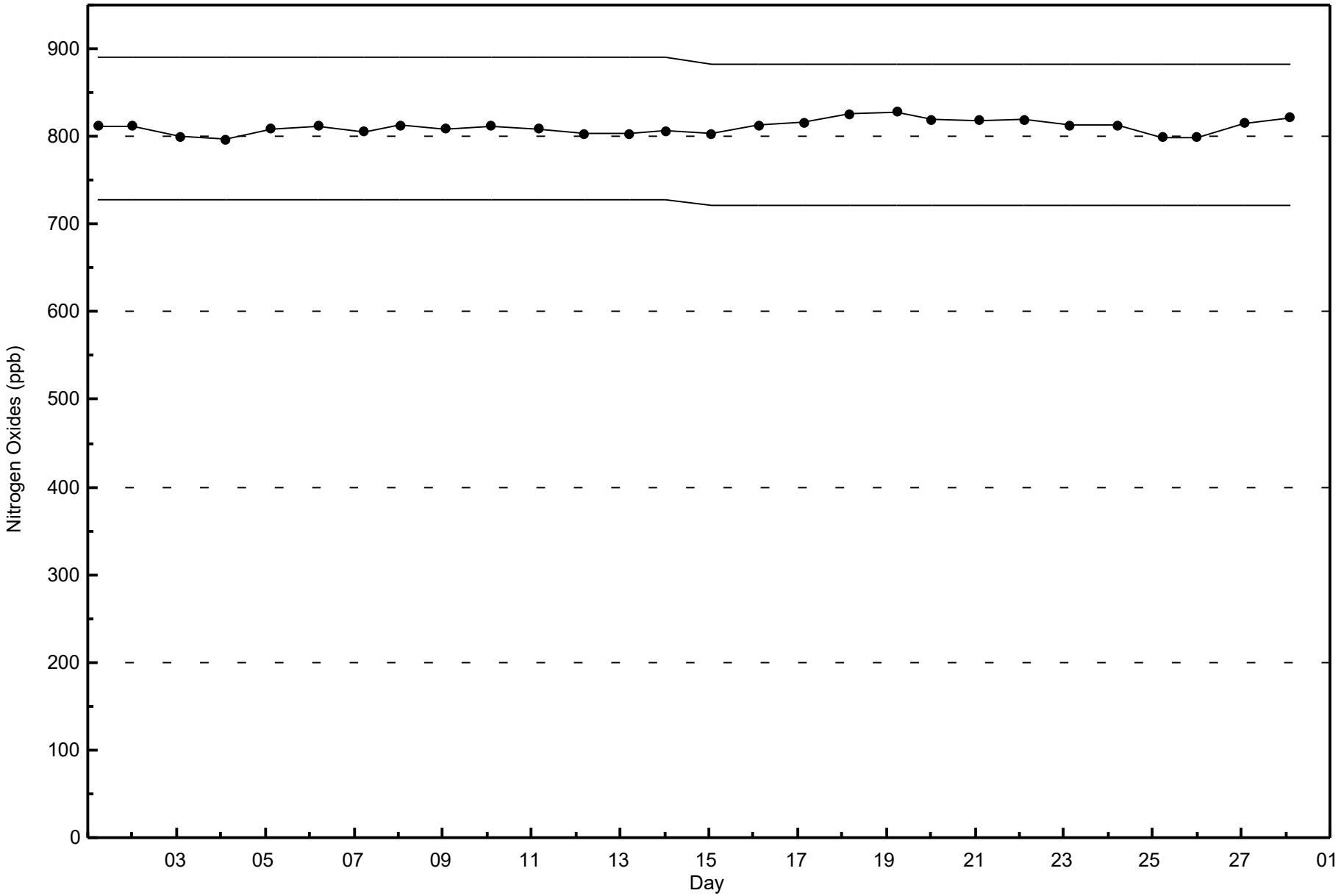


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ozone (O_3) - ppb

Fort McKay - Bertha Ganter - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 43.6 ppb on Feb 13 05:00 Maximum Daily Average: 35.0 ppb on Feb 13

Minimum Value: 0.9 ppb on Feb 2 21:00 Minimum Daily Average: 3.3 ppb on Feb 18
Maximum Diurnal Average: 22.2 ppb at hour 15 Minimum Diurnal Average: 10.1 ppb at hour 24
Monthly Average: 15.04 ppb Percentiles: P_1 = 1.1 P_{10} = 1.9 Q_1 = 5.3 Median = 14.3 Q_3 = 23.2 P_{90} = 28.4 P_{99} = 42.3

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	32
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	28.3	28.5	34.3	Z	34.7	32.4	29.9	26.6	25.7	30.6	31.1	29.2	29.3	27.2	26.7	30.7	29.4	31.4	32.8	31.1	30.3	30.1	26.4	21.6	29.5	34.7
2-Feb	31.6	31.5	31.4	30.5	Z	24.2	23.3	25.0	16.0	18.6	23.6	23.9	23.1	23.1	22.7	20.6	17.8	14.7	13.0	8.6	0.9	1.9	1.0	1.5	18.6	31.6
3-Feb	5.6	14.0	16.0	18.1	20.0	Z	18.5	22.2	22.5	24.5	20.9	21.0	24.3	23.4	22.8	20.4	17.7	17.2	14.1	13.7	14.3	10.4	7.7	13.1	17.5	24.5
4-Feb	Z	24.6	23.9	23.1	18.4	10.0	9.8	11.4	17.3	8.8	10.7	C	C	C	C	27.3	30.6	18.3	24.7	23.9	23.0	21.5	22.5	26.6	19.8	30.6
5-Feb	23.0	Z	27.2	27.2	28.4	28.2	27.6	30.5	31.0	30.1	29.9	29.0	27.2	26.2	28.1	28.7	27.4	27.0	27.1	20.6	27.2	24.1	17.9	11.4	26.3	31.0
6-Feb	12.5	8.2	Z	6.0	1.8	1.3	1.3	1.3	2.0	2.7	3.8	4.8	5.9	9.5	14.0	20.3	22.7	22.8	18.9	7.4	4.9	4.9	4.1	2.3	8.0	22.8
7-Feb	2.2	3.2	2.9	Z	9.3	16.5	19.7	21.6	26.3	27.3	27.8	29.3	28.0	28.0	28.3	28.2	27.1	27.3	21.3	19.4	19.9	18.9	19.2	12.6	20.2	29.3
8-Feb	14.9	13.2	9.2	7.5	Z	1.8	1.5	1.6	5.4	9.4	15.5	17.7	26.1	24.7	23.0	24.7	26.3	13.5	11.1	15.6	20.3	21.0	20.8	18.0	14.9	26.3
9-Feb	17.4	14.5	7.2	6.2	12.5	Z	6.7	10.8	19.8	24.1	24.8	22.5	24.5	26.4	28.1	27.4	27.3	22.2	23.2	23.4	23.9	19.4	21.0	24.6	19.9	28.1
10-Feb	Z	11.4	11.9	9.0	3.4	7.2	11.5	3.0	4.0	8.8	15.6	14.1	11.7	11.6	14.9	13.2	10.0	9.5	7.7	7.7	2.5	1.6	1.5	1.5	8.4	15.6
11-Feb	1.4	Z	1.7	1.6	1.5	1.8	1.7	1.8	3.3	8.1	11.4	16.6	20.5	22.7	23.4	25.0	13.9	8.4	2.4	1.9	3.1	1.9	1.3	1.4	7.7	25.0
12-Feb	1.3	1.3	Z	2.4	7.3	6.5	14.5	20.0	17.9	23.9	29.6	30.9	30.4	32.4	30.0	26.9	30.7	31.1	31.5	34.2	37.4	37.7	37.2	37.6	24.0	37.7
13-Feb	36.5	40.8	40.0	Z	43.6	43.1	42.5	41.4	40.3	38.1	41.3	41.9	41.6	42.5	42.5	43.4	43.3	38.4	26.9	26.5	16.3	18.1	10.9	4.5	35.0	43.6
14-Feb	2.3	2.1	1.9	1.9	Z	2.0	1.9	2.0	4.9	9.5	9.0	9.8	10.2	11.0	12.8	11.7	4.0	1.9	1.5	1.5	1.9	5.2	2.2	4.5	5.0	12.8
15-Feb	6.2	9.7	16.3	17.0	18.3	Z	23.8	24.8	24.8	26.2	25.7	25.5	25.1	24.0	23.6	20.6	21.2	21.5	16.9	14.5	11.4	6.3	10.7	7.2	18.3	26.2
16-Feb	Z	5.3	5.1	3.1	3.7	3.0	3.2	2.2	7.0	9.5	9.0	10.4	13.4	13.6	14.2	15.4	15.4	12.8	12.5	9.2	11.8	5.0	4.1	4.6	8.4	15.4
17-Feb	7.2	Z	14.6	11.9	8.9	11.0	12.6	14.2	15.2	17.6	20.4	23.2	22.8	23.1	24.7	23.4	22.7	20.3	17.5	14.7	13.9	10.3	8.5	6.4	15.9	24.7
18-Feb	4.4	2.8	Z	2.2	2.3	1.9	2.1	1.9	2.7	3.8	4.8	5.4	5.7	5.7	5.6	5.6	4.3	3.7	1.9	2.0	1.7	1.7	1.5	1.1	3.3	5.7
19-Feb	1.4	1.1	1.0	Z	1.5	1.0	1.1	1.5	2.9	5.8	7.7	10.0	11.6	13.4	16.9	19.3	20.5	18.2	10.1	3.4	7.5	7.9	6.5	8.4	7.8	20.5
20-Feb	5.7	6.8	7.1	7.7	Z	7.3	5.1	3.5	8.9	14.3	17.8	22.4	23.7	21.5	21.8	17.3	10.2	11.7	22.9	20.0	15.6	9.1	6.8	4.2	12.7	23.7
21-Feb	8.3	6.1	3.7	3.5	5.2	Z	2.0	1.6	4.3	9.0	11.2	14.2	15.8	18.3	24.1	23.2	22.7	15.9	15.6	15.4	12.0	8.0	6.6	5.4	11.0	24.1
22-Feb	Z	2.7	2.8	3.6	2.4	1.5	1.9	1.9	3.9	5.1	5.9	7.0	8.2	7.9	8.5	7.6	6.4	3.7	1.6	1.4	1.5	1.2	1.5	1.4	3.9	8.5
23-Feb	1.6	Z	1.5	6.0	4.2	12.0	16.6	14.6	15.5	20.7	21.8	20.6	20.9	25.0	26.6	23.7	12.6	3.5	1.6	1.6	1.8	1.9	2.0	2.0	11.2	26.6
24-Feb	2.0	1.9	Z	2.1	2.1	2.2	2.1	2.5	4.6	9.4	14.8	17.9	20.5	23.1	M	M	21.5	20.0	13.6	5.0	2.4	4.4	6.4	7.4	8.9	23.1
25-Feb	10.8	15.4	14.0	Z	6.3	6.2	2.3	2.7	6.9	10.2	15.5	23.0	25.2	21.4	21.2	20.6	17.7	8.3	1.6	10.2	18.5	25.6	23.0	19.6	14.2	25.6
26-Feb	17.7	19.7	18.6	18.7	Z	15.5	14.4	15.5	20.2	21.3	24.1	26.0	27.7	28.7	30.0	28.7	27.2	30.0	27.1	28.0	26.0	21.1	21.1	23.4	23.1	30.0
27-Feb	25.3	27.6	28.6	25.0	24.8	Z	19.3	19.1	20.6	18.9	18.1	17.2	16.6	16.1	15.4	12.9	10.6	7.4	7.5	5.8	3.8	2.2	1.4	1.2	15.0	28.6
28-Feb	Z	1.2	1.1	1.3	1.3	1.3	1.5	2.4	7.3	12.0	16.6	19.8	20.6	22.5	26.8	29.1	27.9	24.4	20.2	15.8	14.0	13.8	9.4	8.3	13.0	29.1
	11.6	12.2	13.4	10.2	11.4	10.3	11.4	11.7	13.6	16.0	18.2	19.7	20.8	21.2	22.2	22.1	20.3	17.3	15.2	13.7	13.1	12.0	10.8	10.1	Diurnal Average	
	36.5	40.8	40.0	30.5	43.6	43.1	42.5	41.4	40.3	38.1	41.3	41.9	41.6	42.5	42.5	43.4	43.3	38.4	32.8	34.2	37.4	37.7	37.2	37.6	Diurnal Maximum	

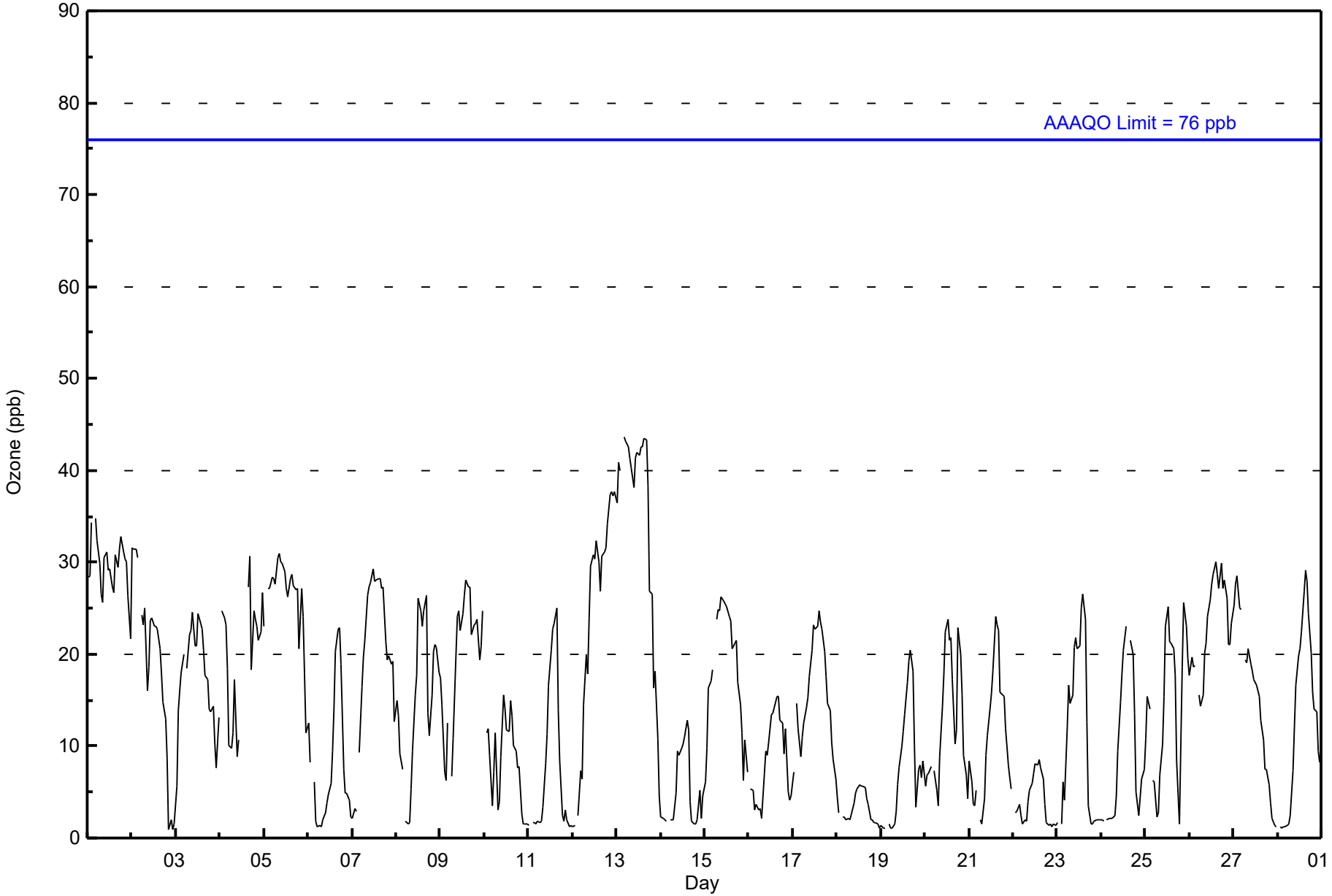
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 76 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ozone (O_3) - ppb

Fort McKay - Bertha Ganter - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	421	65.99	65.99
21 - 50	217	34.01	100.00
51 - 82	0	0.00	100.00
> 83	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association | **Ozone (O_3) - ppb**

Frequency Distribution | **Fort McKay - Bertha Ganter - February 2026**

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	94	84	16	9	6	1	5	29	78	22	10	3	11	14	15	18	415
21 - 50	43	43	20	9	2	2	5	32	37	1	13	4	3	0	2	1	217
51 - 82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	137	127	36	18	8	3	10	61	115	23	23	7	14	14	17	19	632

Total Number of Valid Hours: 632

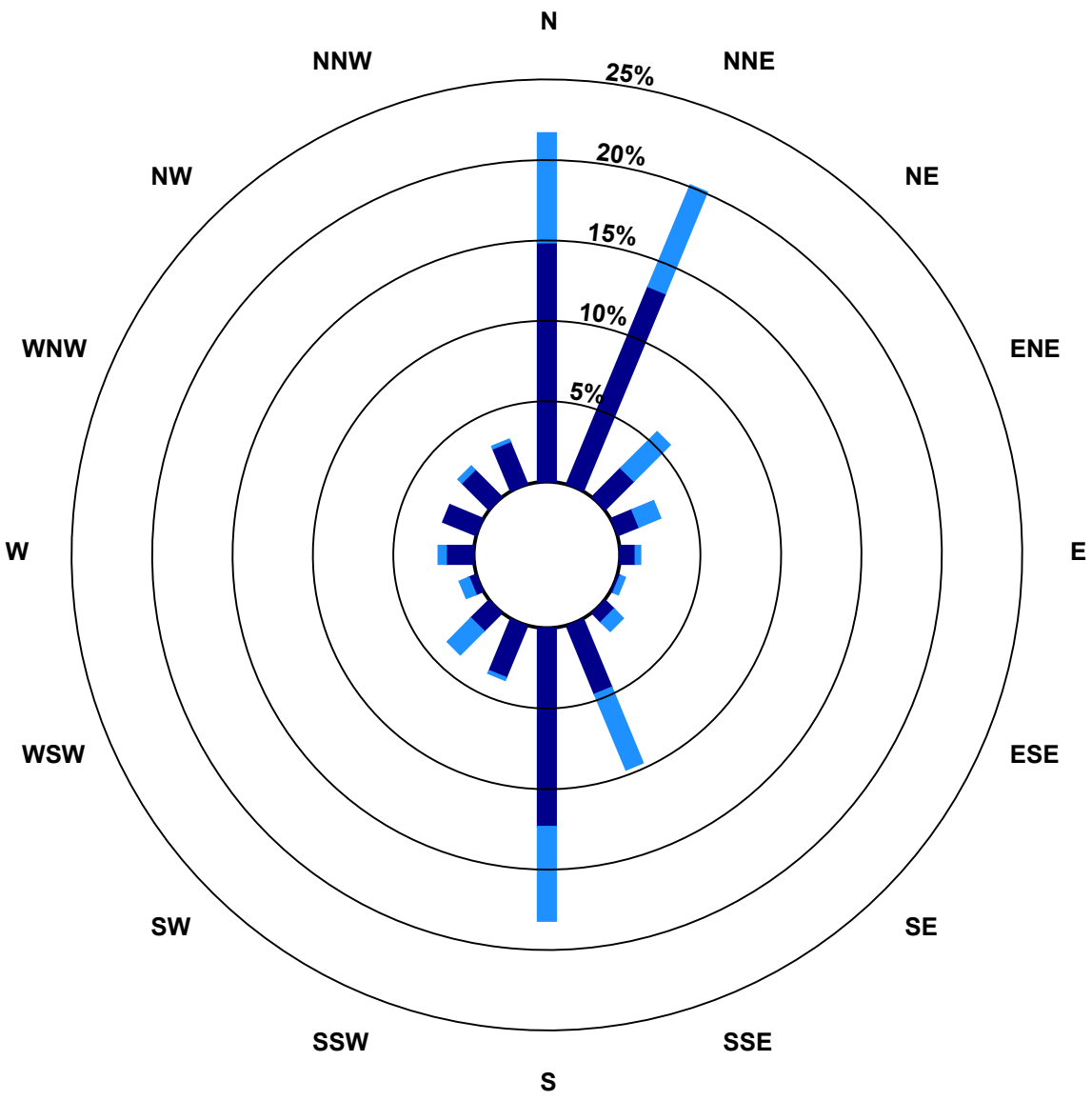
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Ozone (O_3) - ppb

Fort McKay - Bertha Ganter



Classes (ppb)

0 - 20

21 - 50

51 - 82

> 83

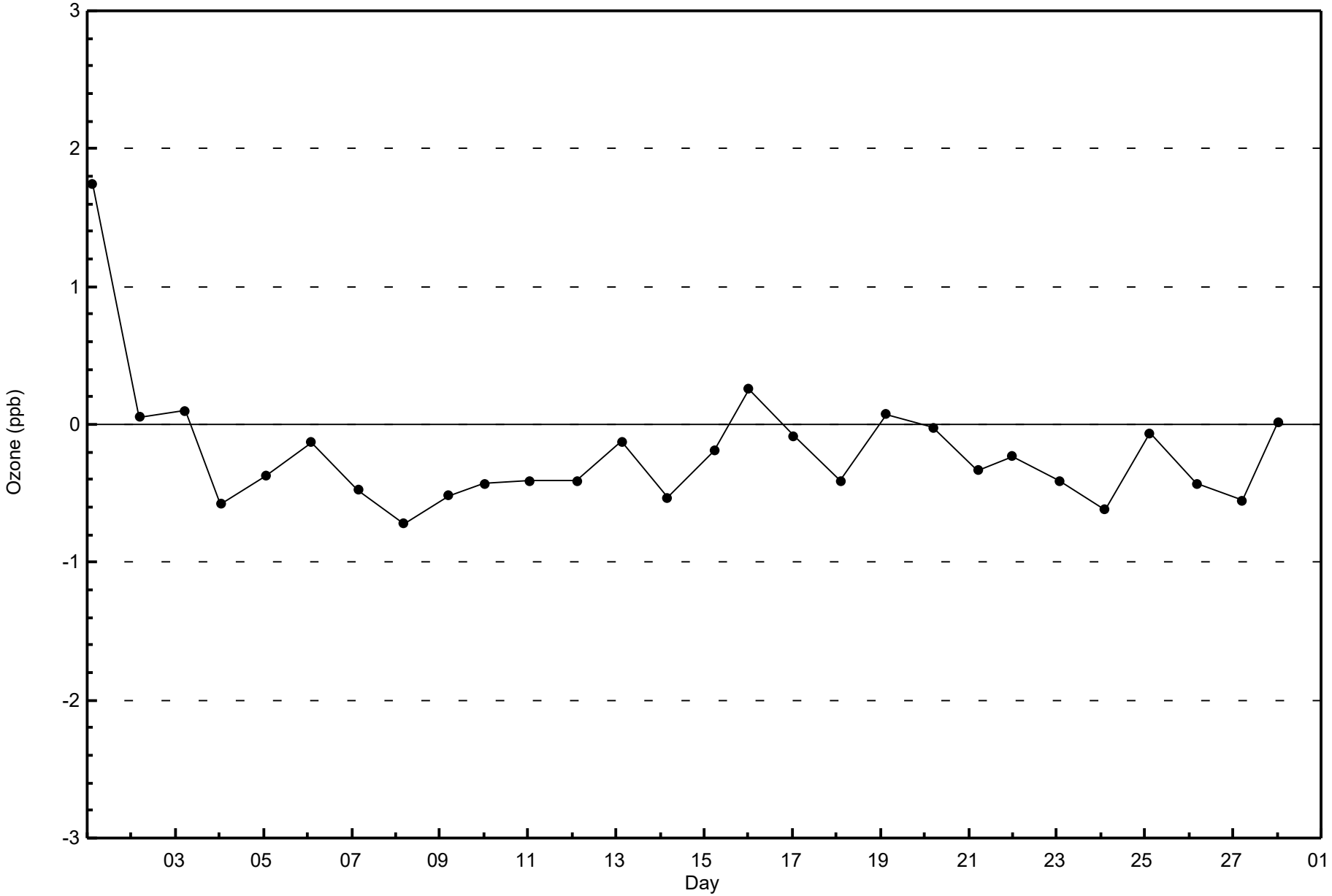
Total Number of Valid Hours: 632

Wood Buffalo Environmental Association

Zero Responses

Ozone (O_3) - ppb

Fort McKay - Bertha Ganter - February 2026

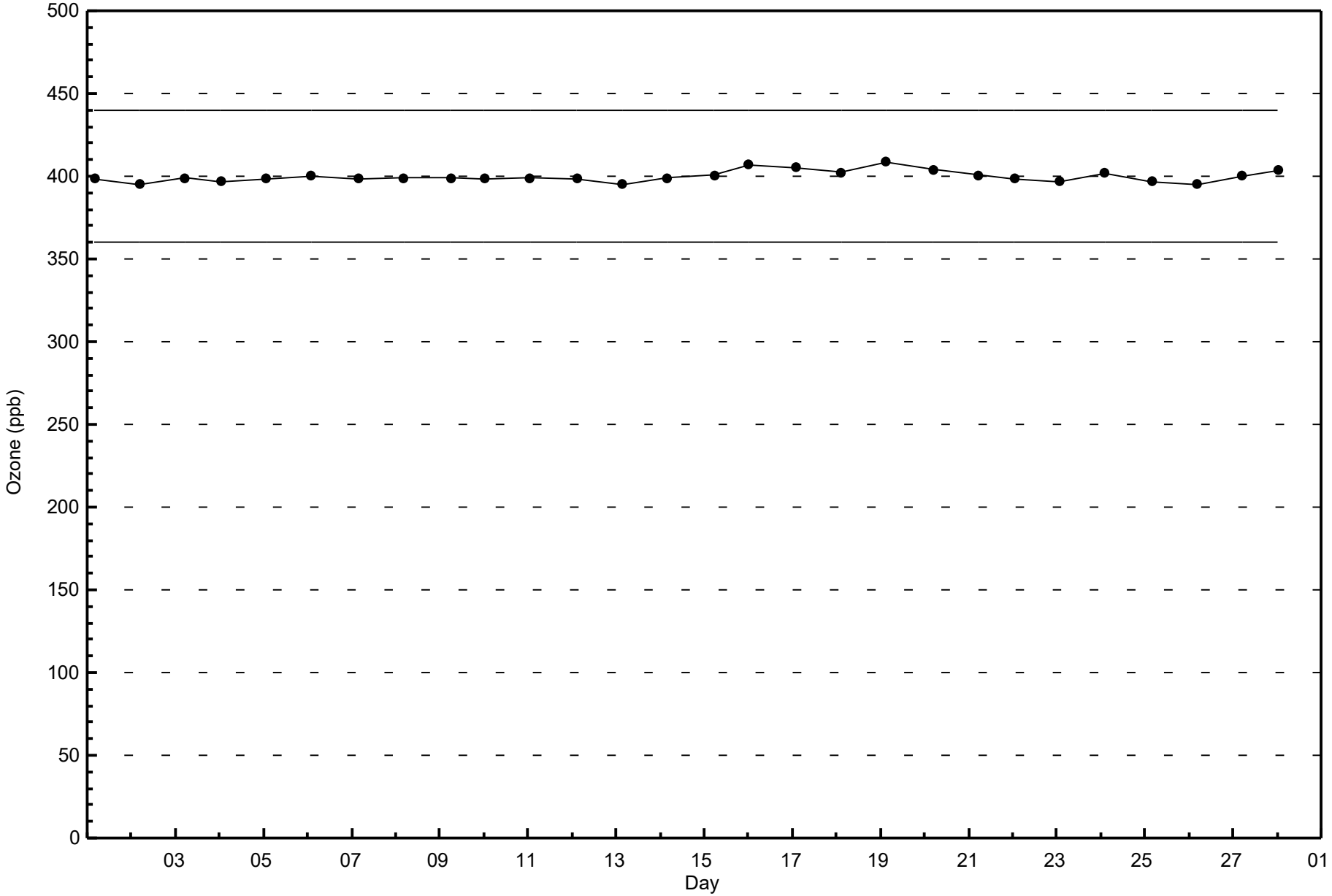


Wood Buffalo Environmental Association

Span Responses

Ozone (O_3) - ppb

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort McKay - Bertha Ganter - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 37.6 $\mu g/m^3$ on Feb 11 19:00

Maximum Daily Average: 9.5 $\mu g/m^3$ on Feb 11

Minimum Value: 1.2 $\mu g/m^3$ on Feb 12 19:00

Minimum Daily Average: 2.3 $\mu g/m^3$ on Feb 13

Maximum Diurnal Average: 5.4 $\mu g/m^3$ at hour 19

Minimum Diurnal Average: 3.8 $\mu g/m^3$ at hour 17

Monthly Average: 4.44 $\mu g/m^3$

Percentiles: P_1 = 1.5 P_{10} = 2.4 Q_1 = 3.0 Median = 3.7 Q_3 = 5.2 P_{90} = 7.1 P_{99} = 14.1

Hours in Service:	672
Hours of Data:	670
Hours of Missing Data:	2
Hours of Calibration:	2
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.8	2.6	2.3	2.0	2.0	2.0	2.5	3.5	3.6	3.3	3.1	3.6	2.8	2.8	3.0	3.2	3.1	2.3	2.2	2.4	2.8	2.9	3.2	3.6	2.8	3.6
2-Feb	2.3	2.1	2.1	2.2	2.4	3.4	2.9	2.9	4.2	3.7	3.5	3.9	4.6	4.7	5.3	5.2	5.5	6.0	6.0	6.0	5.8	6.9	7.1	6.2	4.4	7.1
3-Feb	6.9	5.7	5.0	4.5	4.3	4.7	4.4	3.8	3.3	3.2	3.2	3.3	3.2	3.3	4.3	3.8	3.6	3.8	4.2	4.8	4.4	4.5	4.8	6.6	4.3	6.9
4-Feb	5.2	4.6	4.4	4.8	5.7	6.4	8.2	7.9	5.3	6.6	5.1	3.3	1.8	2.6	2.0	1.8	1.2	3.1	3.6	4.1	4.2	4.4	4.0	3.1	4.3	8.2
5-Feb	3.2	3.0	2.6	2.2	2.0	2.0	2.1	2.2	1.9	1.8	1.9	1.9	2.3	2.5	2.3	2.2	2.3	2.1	2.3	2.6	2.6	2.7	2.9	3.2	2.4	3.2
6-Feb	3.5	3.9	4.2	4.4	4.2	4.2	4.4	4.9	5.6	6.0	5.5	5.3	5.0	4.9	4.3	3.6	3.6	3.4	3.5	4.2	4.7	4.8	4.8	6.4	4.5	6.4
7-Feb	8.6	5.0	4.7	4.9	5.0	3.4	2.9	3.2	3.5	3.4	3.3	2.7	2.7	2.6	2.9	2.9	2.9	2.7	3.0	3.2	3.5	3.5	3.3	3.3	3.6	8.6
8-Feb	3.1	3.2	3.3	3.3	3.3	3.7	4.1	5.5	4.5	4.0	3.3	3.4	3.0	2.9	2.9	3.0	3.1	3.9	4.3	3.6	3.6	3.7	3.8	4.1	3.6	5.5
9-Feb	4.0	4.0	4.2	4.4	4.1	3.8	4.4	5.2	5.7	5.6	5.7	4.0	4.1	3.3	3.0	2.8	2.7	2.7	2.6	2.6	2.7	2.8	2.7	2.5	3.7	5.7
10-Feb	2.9	3.1	3.0	3.3	4.0	4.7	5.6	6.2	6.9	7.7	8.7	9.4	12.7	14.4	9.4	8.4	7.7	7.1	7.0	7.0	7.8	8.7	9.5	7.3	7.2	14.4
11-Feb	8.0	8.5	8.4	10.0	8.7	10.2	10.3	9.7	7.9	7.8	9.0	9.3	7.2	6.3	5.3	3.1	3.4	30.0	37.6	10.7	4.2	3.7	4.4	4.2	9.5	37.6
12-Feb	4.1	4.5	5.6	5.7	3.9	3.7	2.8	2.4	2.9	3.0	3.2	3.3	3.2	2.5	2.0	2.4	1.5	1.2	1.2	1.3	1.6	1.6	1.6	1.7	2.8	5.7
13-Feb	1.8	1.5	1.5	1.8	1.9	1.9	1.9	2.1	2.3	2.4	2.2	2.2	2.3	2.0	2.1	1.8	1.7	2.1	3.4	2.5	2.4	2.6	2.8	5.2	2.3	5.2
14-Feb	9.7	7.1	5.1	6.3	4.6	5.6	6.5	8.9	4.8	6.1	6.1	5.3	7.0	7.4	7.3	6.7	10.1	12.0	14.0	11.0	6.9	6.1	6.9	5.8	7.4	14.0
15-Feb	5.9	4.8	4.5	4.4	4.0	3.5	3.4	2.9	2.8	3.9	4.7	4.8	5.1	5.7	6.3	7.1	5.7	4.8	7.8	8.9	7.9	7.9	8.5	6.4	5.5	8.9
16-Feb	6.0	4.9	5.2	6.3	5.9	5.7	6.3	6.5	6.0	6.6	9.3	9.6	7.3	6.4	5.6	4.5	3.8	4.5	4.5	5.3	4.7	5.6	5.1	5.3	5.9	9.6
17-Feb	7.3	5.7	3.6	3.6	3.6	3.3	3.1	3.3	3.6	3.4	3.8	4.1	3.7	4.5	5.2	5.3	5.9	5.8	4.9	4.3	4.2	3.7	3.5	3.7	4.3	7.3
18-Feb	3.7	3.4	3.3	3.6	3.3	3.1	3.0	3.1	3.1	3.1	2.9	3.1	2.6	2.5	2.4	2.3	2.1	2.1	2.1	1.9	3.2	2.6	2.3	4.9	2.9	4.9
19-Feb	15.0	3.4	3.7	4.1	4.0	3.9	3.9	4.5	5.5	5.0	4.3	4.5	3.6	3.3	3.1	2.7	2.7	2.8	3.4	3.9	3.0	2.9	9.3	5.9	4.5	15.0
20-Feb	6.0	3.7	4.0	4.1	4.4	4.1	15.2	6.5	4.6	4.7	5.6	6.4	9.1	6.8	6.3	6.8	7.2	4.5	3.1	3.9	3.2	3.4	3.4	3.0	5.4	15.2
21-Feb	3.1	2.9	3.1	3.2	3.5	5.7	3.5	3.7	3.7	3.4	3.6	3.6	3.6	3.6	2.9	3.0	3.0	3.9	3.5	3.4	3.8	3.8	3.5	3.5	3.5	5.7
22-Feb	3.7	3.7	3.4	3.3	3.4	3.4	3.5	3.6	3.5	3.8	3.7	4.2	4.4	4.4	3.9	3.6	3.5	3.5	3.3	3.4	3.4	3.3	3.2	3.0	3.6	4.4
23-Feb	3.0	2.9	2.7	2.8	2.6	2.9	2.9	3.0	2.9	2.6	2.6	2.6	2.7	3.1	2.6	3.0	3.2	4.3	4.2	3.8	4.0	3.9	4.0	7.6	3.3	7.6
24-Feb	6.2	4.0	4.5	6.0	5.9	5.3	5.4	5.7	7.6	5.3	4.5	C	C	5.0	4.9	5.1	4.6	4.6	5.3	17.4	9.8	6.1	5.2	4.5	6.0	17.4
25-Feb	4.1	3.8	3.7	3.8	3.9	3.9	4.1	4.2	4.5	7.6	6.1	5.9	6.5	5.2	4.4	4.3	4.3	5.2	6.8	5.3	3.2	2.9	3.0	3.3	4.6	7.6
26-Feb	3.4	3.4	3.2	3.3	3.4	3.8	3.3	3.2	3.3	3.4	3.2	3.2	3.5	3.9	3.4	3.4	3.1	2.6	2.6	2.8	2.3	2.6	2.6	2.5	3.1	3.9
27-Feb	2.8	2.5	2.5	2.3	2.1	2.3	2.7	2.5	2.5	2.6	2.8	2.7	2.8	2.8	2.7	3.0	3.0	3.1	2.5	2.7	2.6	2.8	2.7	2.8	2.7	3.1
28-Feb	3.5	3.4	7.7	19.1	9.5	6.8	6.4	5.6	4.8	10.1	6.3	6.0	4.5	4.2	3.6	3.1	3.2	3.2	3.7	6.8	7.1	10.8	4.2	3.9	6.1	19.1
	5.0	4.0	4.0	4.6	4.1	4.2	4.6	4.5	4.3	4.6	4.5	4.5	4.5	4.4	4.1	3.9	3.8	4.9	5.4	5.0	4.3	4.3	4.4	4.4	Diurnal Average	
	15.0	8.5	8.4	19.1	9.5	10.2	15.2	9.7	7.9	10.1	9.3	9.6	12.7	14.4	9.4	8.4	10.1	30.0	37.6	17.4	9.8	10.8	9.5	7.6	Diurnal Maximum	

C - Calibration

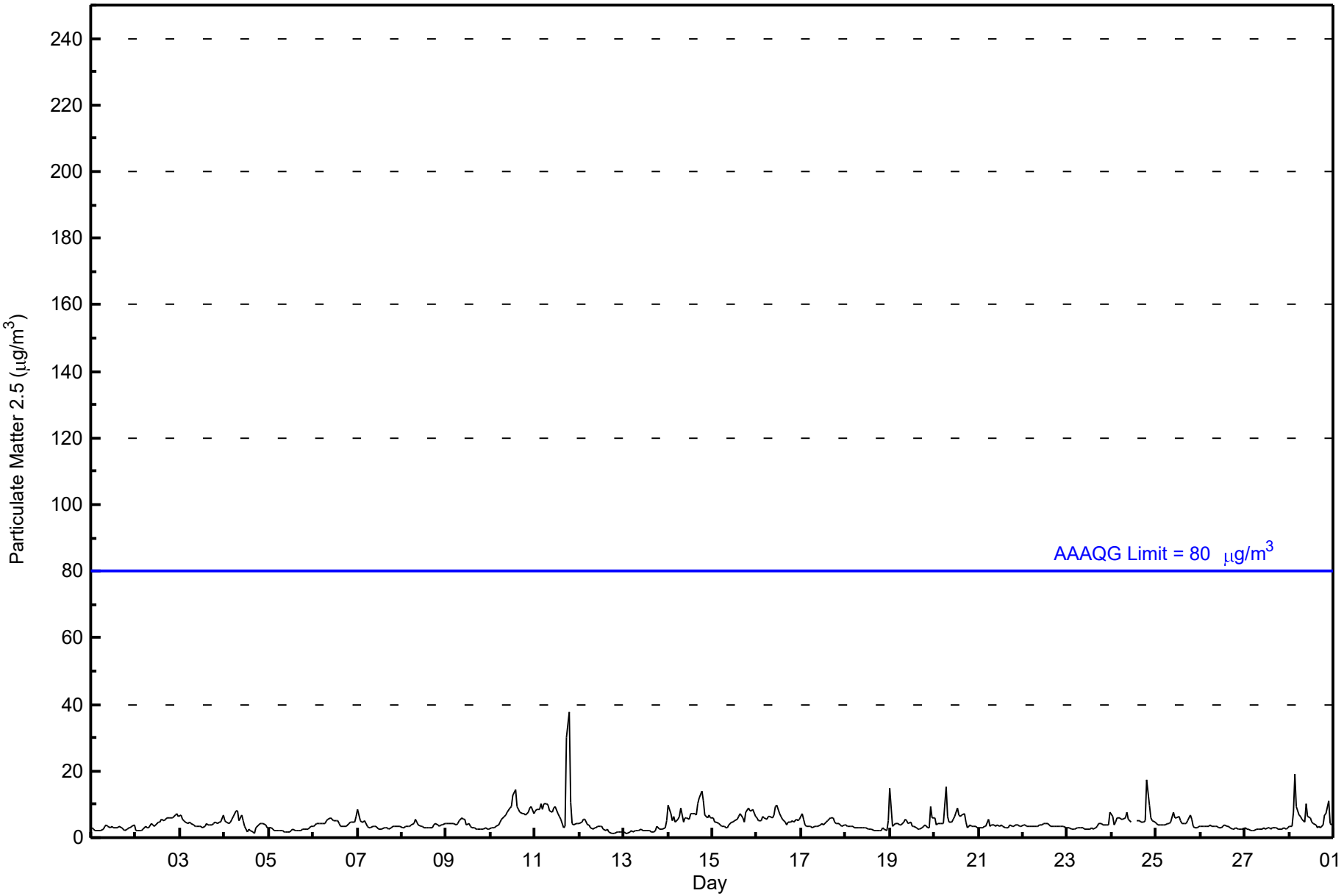
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort McKay - Bertha Ganter - February 2026



Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	521	77.76	77.76
6 - 15	145	21.64	99.40
16 - 25	2	0.30	99.70
26 - 80	2	0.30	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 670

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	120	114	34	13	5	2	9	46	83	8	19	8	11	11	13	20	516
6 - 15	20	21	3	5	3	1	2	14	39	15	6	1	4	4	4	2	144
16 - 25	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
26 - 80	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	140	135	37	18	8	3	11	61	123	24	26	9	15	15	17	22	664

Total Number of Valid Hours: 664

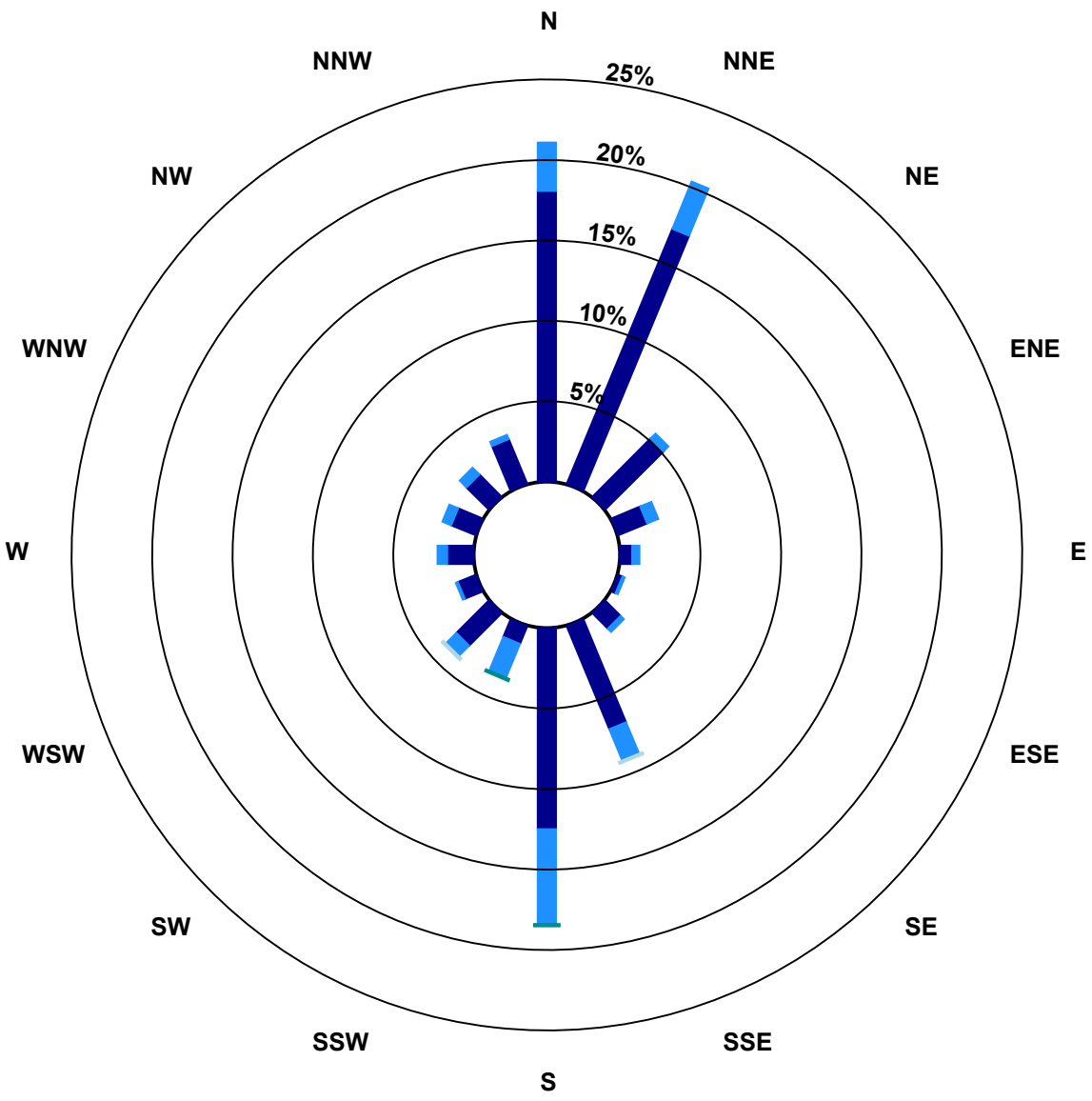
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort McKay - Bertha Ganter



Classes ($\mu g/m^3$)

- 0 - 5
- 6 - 15
- 16 - 25
- 26 - 80
- > 81.0

Total Number of Valid Hours: 664

Wood Buffalo Environmental Association

Summary of Hour Averages

Ammonia (NH_3) - ppb

Fort McKay - Bertha Ganter - February 2026

Number of Exceedences (AAAQO): 1-hr: 0

Maximum Value: 0.0 ppb on Feb 1 01:00

Maximum Daily Average: 0.0 ppb on Feb 1

Minimum Value: 0.0 ppb on Feb 1 01:00

Minimum Daily Average: 0.0 ppb on Feb 1

Maximum Diurnal Average: 0.0 ppb at hour 1

Minimum Diurnal Average: 0.0 ppb at hour 1

Monthly Average: 0.00 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.0 P_{99} = 0.0

Hours in Service:	672
Hours of Data:	599
Hours of Missing Data:	73
Hours of Calibration:	36
Percent Operational Time:	94.5

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-Feb	0.0	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3-Feb	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4-Feb	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-Feb	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-Feb	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7-Feb	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	UO	0.0	0.0	0.0	0.0	UO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-Feb	0.0	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	UO	0.0	UO	0.0	0.0	UO	UO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9-Feb	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Feb	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-Feb	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-Feb	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Feb	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Feb	0.0	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	UO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Feb	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Feb	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Feb	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-Feb	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Feb	0.0	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21-Feb	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-Feb	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-Feb	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24-Feb	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	C	C	C	C	C	C	C	C	RE	RE	0.0	0.0	0.0	0.0	0.0	--	0.0
25-Feb	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26-Feb	0.0	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27-Feb	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28-Feb	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	Diurnal Maximum	

Z - zerospan C - Calibration UO - Unstable Operation RE - Recovery

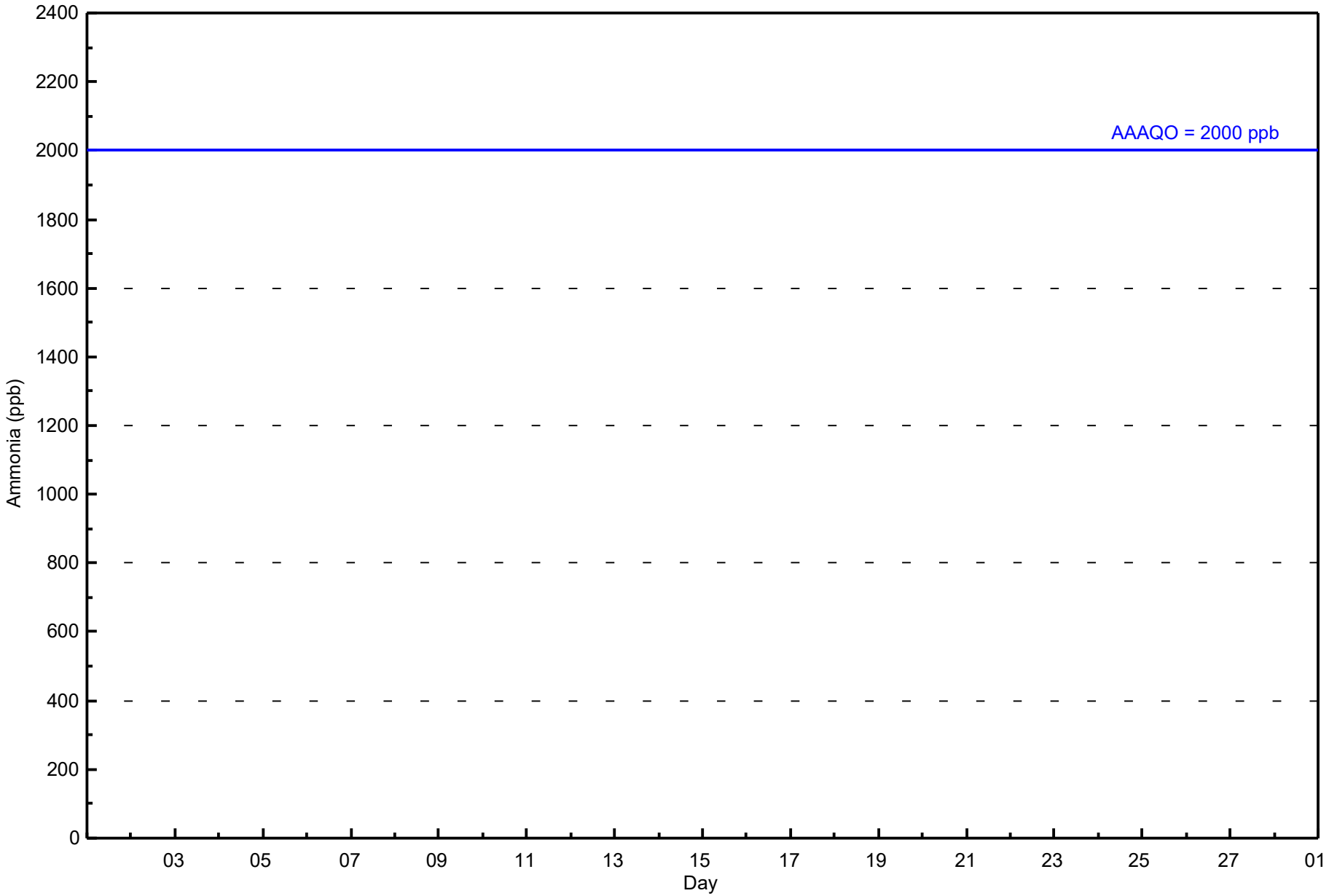
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 2000 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ammonia (NH_3) - ppb

Fort McKay - Bertha Ganter - February 2026



Ammonia (NH_3) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 5	599	100.00	100.00
6 - 10	0	0.00	100.00
11 - 15	0	0.00	100.00
16 - 20	0	0.00	100.00
21 - 25	0	0.00	100.00
> 26	0	0.00	100.00

Total Number of Valid Hours: 599

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Ammonia (NH_3) - ppb

Fort McKay - Bertha Ganter - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	124	120	36	18	8	3	11	52	106	21	26	8	12	14	16	19	594
6 - 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	124	120	36	18	8	3	11	52	106	21	26	8	12	14	16	19	594

Total Number of Valid Hours: 594

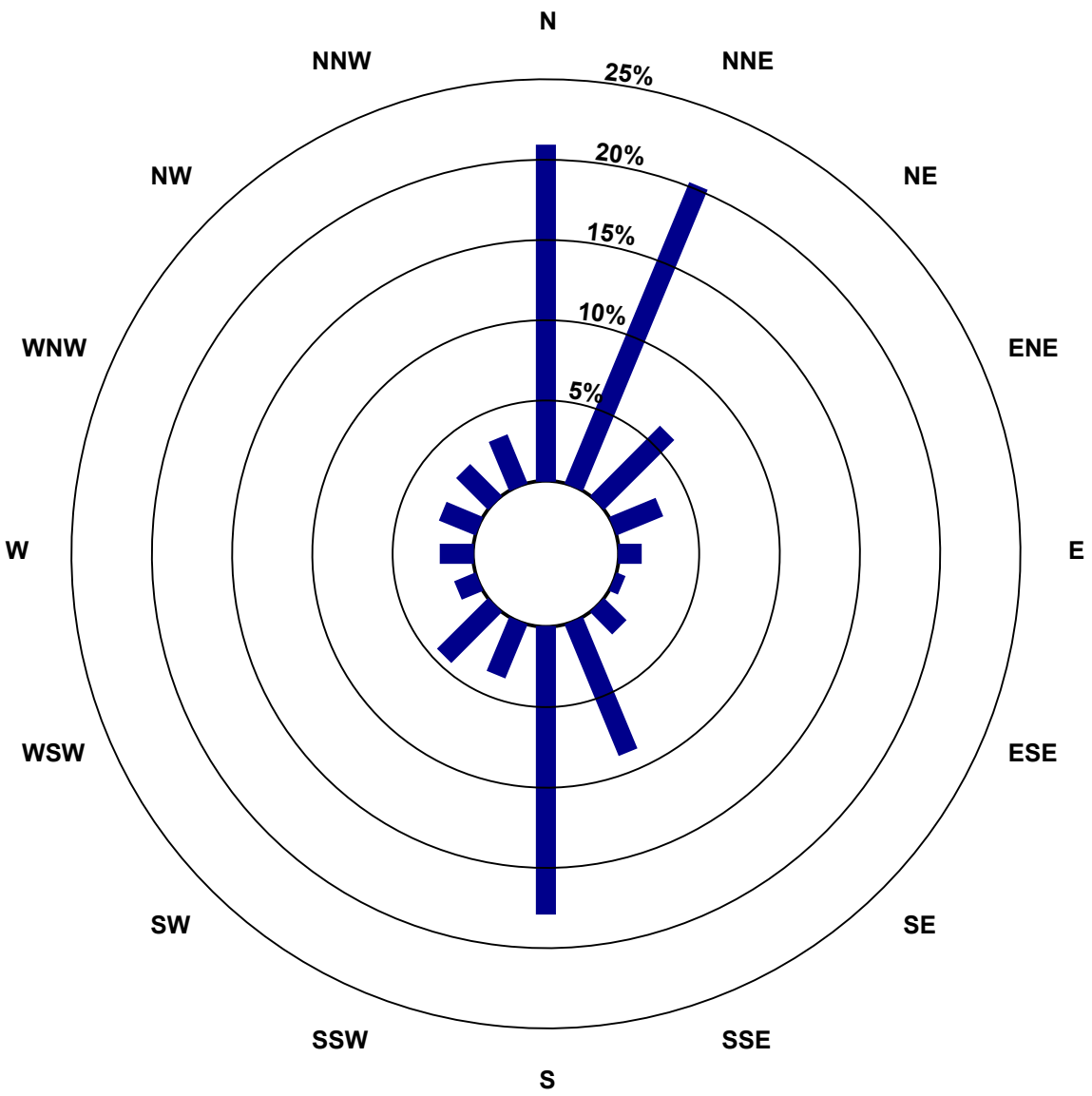
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Ammonia (NH_3) - ppb

Fort McKay - Bertha Ganter



Classes (ppb)

0 - 5

6 - 10

11 - 15

16 - 20

21 - 25

> 26

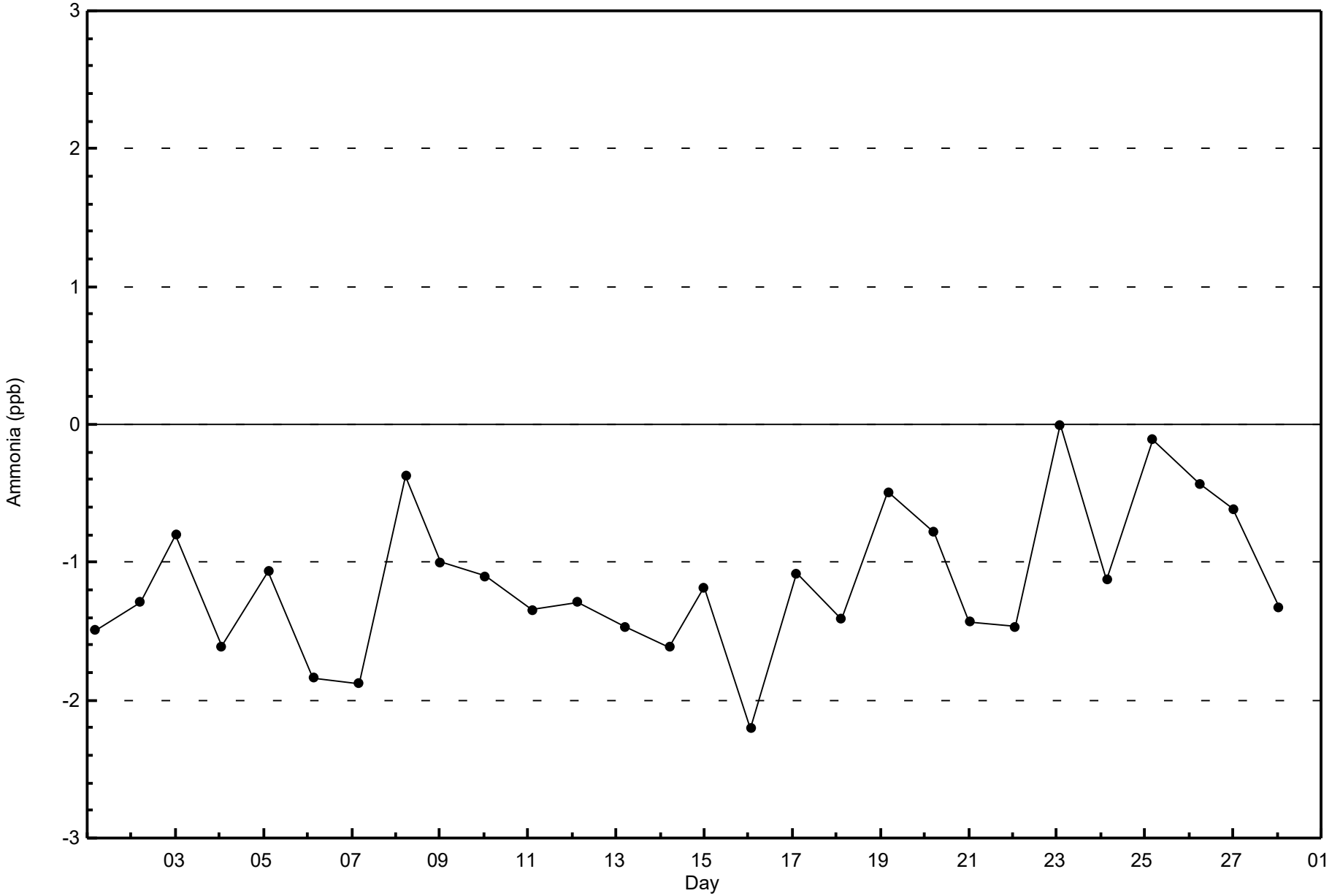
Total Number of Valid Hours: 594

Wood Buffalo Environmental Association

Zero Responses

Ammonia (NH_3) - ppb

Fort McKay - Bertha Ganter - February 2026

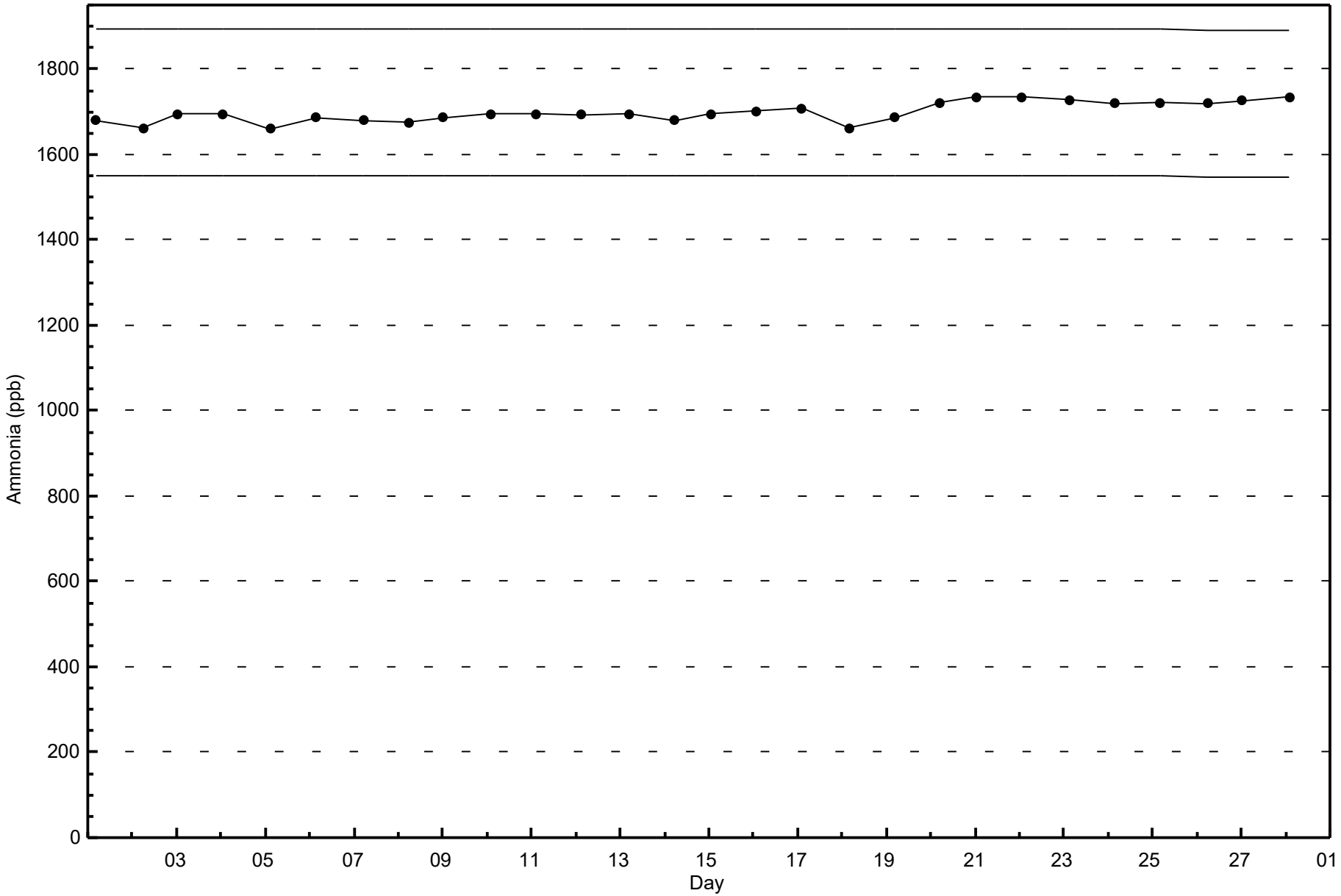


Wood Buffalo Environmental Association

Span Responses

Ammonia (NH_3) - ppb

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ambient Temperature 10m (AT10) - C

Fort McKay - Bertha Ganter - February 2026

Maximum Value: 10.6 C on Feb 4 16:00

Maximum Daily Average: 1.5 C on Feb 13

Minimum Value: -37.8 C on Feb 28 07:00

Minimum Daily Average: -30.6 C on Feb 18

Maximum Diurnal Average: -11.9 C at hour 16

Minimum Diurnal Average: -18.4 C at hour 8

Monthly Average: -15.65 C

Percentiles: P_1 = -36.6 P_{10} = -28.4 Q_1 = -23.0 Median = -15.3 Q_3 = -9.4 P_{90} = -3.1 P_{99} = 5.7

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

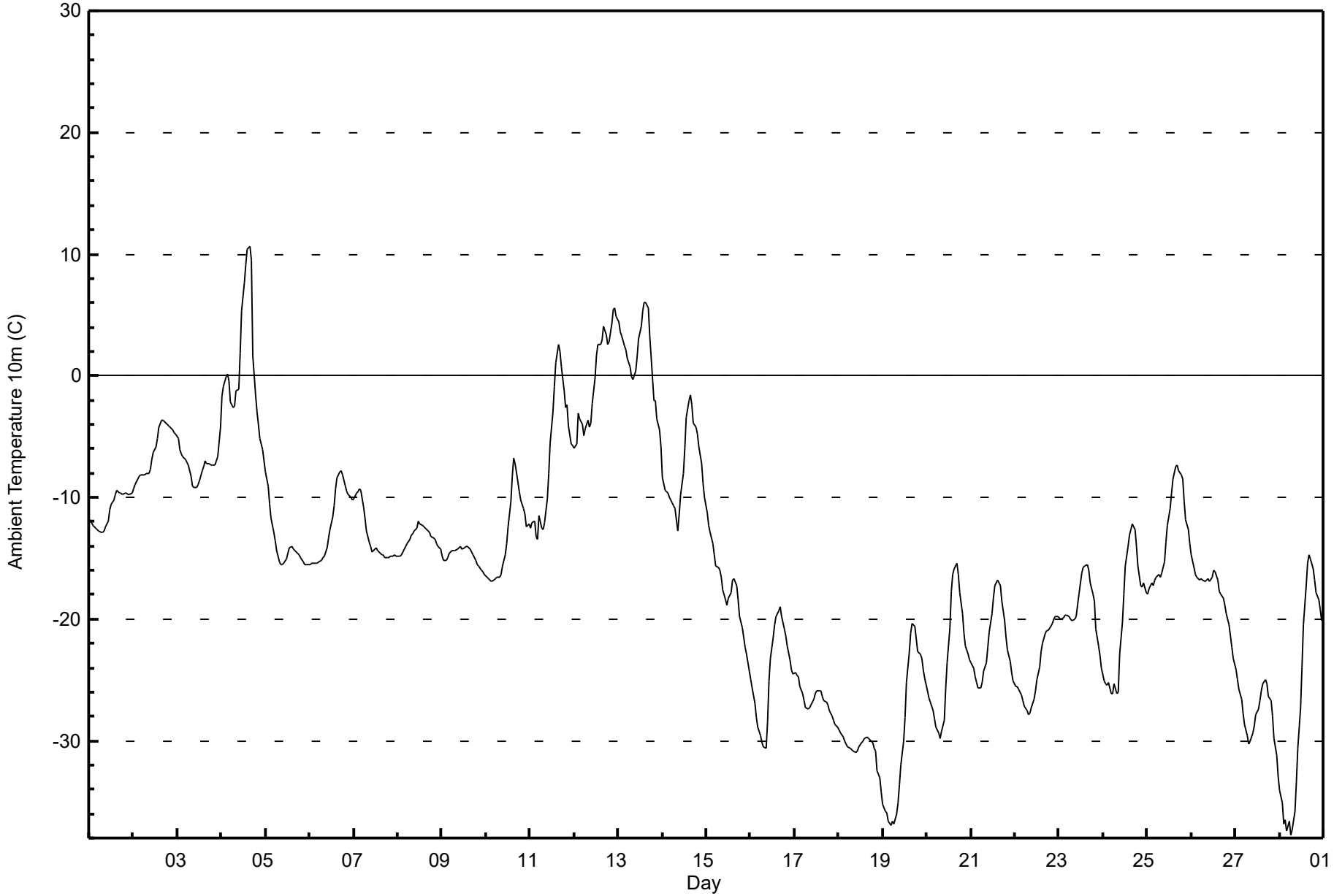
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.9	-12.1	-12.3	-12.5	-12.6	-12.8	-12.9	-12.9	-12.7	-12.4	-11.9	-11.1	-10.6	-10.2	-9.7	-9.4	-9.6	-9.7	-9.8	-9.7	-9.7	-9.7	-9.8	-9.6	-11.1	-9.4
2-Feb	-9.3	-9.0	-8.5	-8.2	-8.2	-8.1	-8.2	-8.0	-8.1	-7.6	-6.9	-6.3	-5.8	-5.2	-4.3	-3.6	-3.6	-3.8	-4.0	-4.1	-4.2	-4.5	-4.7	-4.8	-6.2	-3.6
3-Feb	-5.1	-6.1	-6.5	-6.7	-6.9	-7.1	-7.4	-8.3	-9.0	-9.2	-9.2	-9.0	-8.6	-7.8	-7.5	-7.0	-7.2	-7.3	-7.4	-7.3	-7.3	-7.0	-6.6	-4.2	-7.3	-4.2
4-Feb	-1.7	-0.9	-0.1	0.2	-0.5	-2.1	-2.6	-2.4	-1.3	-1.1	1.9	5.4	7.6	9.1	10.4	10.6	9.5	1.6	-1.6	-2.9	-4.0	-5.2	-6.0	-7.0	0.7	10.6
5-Feb	-7.9	-9.1	-10.6	-11.7	-12.9	-13.6	-14.4	-15.3	-15.5	-15.5	-15.4	-15.0	-14.6	-14.1	-14.1	-14.3	-14.4	-14.6	-14.7	-14.9	-15.3	-15.5	-15.5	-15.6	-13.9	-7.9
6-Feb	-15.5	-15.4	-15.4	-15.4	-15.4	-15.4	-15.2	-15.0	-14.8	-14.1	-13.3	-12.7	-11.7	-10.7	-9.4	-8.4	-7.9	-7.8	-8.2	-9.1	-9.5	-9.7	-10.1	-10.2	-12.1	-7.8
7-Feb	-10.1	-9.6	-9.5	-9.3	-9.4	-10.8	-11.8	-12.8	-13.6	-14.0	-14.5	-14.3	-14.2	-14.4	-14.6	-14.7	-14.7	-14.9	-15.0	-14.9	-14.8	-14.9	-14.8	-14.8	-13.2	-9.3
8-Feb	-14.9	-14.8	-14.7	-14.3	-14.0	-13.8	-13.4	-13.1	-13.0	-12.7	-12.5	-12.0	-12.2	-12.3	-12.4	-12.6	-12.7	-12.9	-13.2	-13.4	-13.5	-13.8	-14.0	-14.2	-13.3	-12.0
9-Feb	-14.9	-15.1	-15.2	-15.0	-14.6	-14.4	-14.3	-14.3	-14.3	-14.1	-14.0	-14.2	-14.2	-14.0	-14.1	-14.3	-14.5	-14.7	-15.1	-15.5	-15.6	-15.9	-16.1	-16.3	-14.8	-14.0
10-Feb	-16.5	-16.7	-16.7	-16.9	-16.8	-16.7	-16.6	-16.5	-16.3	-15.7	-14.8	-13.7	-12.4	-10.4	-8.3	-6.8	-7.3	-8.7	-9.5	-10.2	-10.9	-11.3	-12.4	-12.2	-13.1	-6.8
11-Feb	-12.5	-12.0	-11.9	-13.3	-13.4	-11.5	-12.6	-12.6	-12.0	-10.1	-8.0	-5.5	-3.0	-0.9	1.1	2.6	2.0	0.7	-1.2	-2.6	-2.4	-4.2	-5.6	-5.8	-6.5	2.6
12-Feb	-5.9	-5.6	-3.0	-3.5	-4.0	-4.9	-4.4	-3.6	-4.2	-3.9	-2.2	-0.2	1.6	2.6	2.6	2.9	4.0	3.4	2.5	2.8	4.3	5.5	5.6	4.8	-0.1	5.6
13-Feb	4.4	3.6	3.2	2.5	2.1	1.4	0.7	-0.1	-0.3	0.3	1.6	3.0	4.1	5.3	6.0	6.0	5.5	3.2	1.5	-2.1	-2.0	-3.6	-4.4	-5.9	1.5	6.0
14-Feb	-8.4	-9.4	-9.6	-9.6	-10.0	-10.4	-10.6	-10.9	-12.8	-11.4	-9.7	-8.0	-6.0	-3.4	-2.1	-1.5	-2.4	-3.8	-4.2	-4.9	-5.9	-7.2	-8.9	-10.0	-7.5	-1.5
15-Feb	-11.2	-12.3	-12.9	-13.8	-14.8	-15.6	-15.7	-16.0	-16.6	-17.6	-18.4	-18.8	-18.3	-17.8	-16.8	-16.7	-17.2	-18.4	-19.7	-20.7	-21.5	-22.3	-22.9	-24.3	-17.5	-11.2
16-Feb	-25.0	-25.6	-27.0	-28.0	-28.9	-29.6	-30.2	-30.5	-30.7	-28.5	-25.1	-23.2	-21.5	-20.5	-19.8	-19.4	-19.0	-19.8	-20.9	-21.5	-22.2	-23.3	-24.1	-24.5	-24.5	-19.0
17-Feb	-24.4	-24.6	-24.8	-25.6	-26.1	-26.7	-27.2	-27.4	-27.3	-27.1	-26.6	-26.1	-25.9	-25.9	-26.0	-26.3	-26.7	-26.8	-27.0	-27.5	-27.9	-28.3	-28.6	-28.9	-26.7	-24.4
18-Feb	-29.1	-29.4	-29.7	-30.0	-30.3	-30.5	-30.6	-30.8	-30.9	-30.9	-30.9	-30.5	-30.2	-30.0	-29.8	-29.7	-29.8	-29.9	-30.2	-30.6	-30.9	-32.5	-33.1	-34.2	-30.6	-29.1
19-Feb	-35.2	-35.9	-35.9	-36.6	-36.9	-36.6	-36.9	-36.1	-35.1	-33.6	-32.1	-30.1	-28.1	-25.2	-22.8	-21.2	-20.4	-20.6	-21.6	-22.6	-22.9	-23.3	-24.2	-24.8	-29.1	-20.4
20-Feb	-25.9	-26.4	-26.9	-27.5	-28.2	-28.9	-29.3	-29.9	-29.3	-28.3	-25.7	-23.6	-20.7	-17.7	-16.4	-15.8	-15.4	-16.3	-17.8	-19.6	-21.1	-22.2	-22.9	-23.4	-23.3	-15.4
21-Feb	-23.6	-24.1	-24.7	-25.2	-25.7	-25.6	-25.2	-24.3	-23.5	-22.4	-21.1	-19.5	-18.3	-17.2	-16.8	-17.0	-17.2	-18.5	-20.2	-21.5	-22.5	-23.5	-24.4	-25.1	-22.0	-16.8
22-Feb	-25.5	-25.5	-25.7	-26.3	-26.7	-27.1	-27.6	-27.8	-27.8	-27.3	-26.6	-25.9	-25.0	-23.9	-22.7	-21.9	-21.2	-21.0	-20.9	-20.6	-20.3	-20.0	-19.8	-19.8	-24.0	-19.8
23-Feb	-19.9	-20.0	-19.9	-19.6	-19.7	-19.8	-20.0	-20.2	-20.0	-19.8	-18.9	-17.9	-16.2	-15.7	-15.7	-15.6	-16.0	-17.0	-17.9	-18.5	-20.9	-22.2	-23.0	-24.0	-19.1	-15.6
24-Feb	-25.1	-25.3	-25.4	-25.2	-26.2	-26.1	-25.3	-26.1	-26.0	-22.9	-20.3	-17.9	-15.6	-14.0	-13.1	-12.6	-12.2	-12.7	-14.0	-15.6	-17.2	-17.3	-17.0	-17.8	-19.6	-12.2
25-Feb	-17.9	-17.5	-17.0	-17.3	-16.7	-16.6	-16.3	-16.5	-16.2	-15.3	-13.7	-12.3	-11.0	-9.7	-8.5	-7.5	-7.4	-7.8	-8.2	-8.5	-10.3	-11.9	-12.7	-13.8	-12.9	-7.4
26-Feb	-14.7	-15.7	-16.3	-16.6	-16.8	-16.7	-16.8	-16.9	-16.8	-16.7	-16.9	-16.6	-16.0	-16.1	-16.7	-17.7	-18.0	-18.3	-18.8	-19.5	-20.5	-21.4	-22.4	-23.2	-17.8	-14.7
27-Feb	-24.2	-25.0	-25.8	-26.6	-27.7	-28.7	-29.6	-30.2	-30.0	-29.4	-28.7	-27.9	-27.4	-26.8	-25.9	-25.3	-25.0	-25.3	-26.4	-26.8	-27.9	-29.9	-31.2	-33.0	-27.7	-24.2
28-Feb	-34.1	-35.2	-36.9	-36.5	-37.4	-36.6	-37.8	-37.3	-35.8	-33.4	-30.7	-27.3	-23.9	-20.5	-17.3	-15.4	-14.7	-15.1	-15.9	-16.8	-17.9	-18.5	-19.3	-20.1	-26.4	-14.7
	-16.6	-16.9	-17.1	-17.4	-17.8	-18.0	-18.3	-18.4	-18.4	-17.7	-16.6	-15.4	-14.2	-13.1	-12.3	-11.9	-11.9	-12.7	-13.5	-14.3	-14.8	-15.5	-16.0	-16.5	Diurnal Average	
	4.4	3.6	3.2	2.5	2.1	1.4	0.7	-0.1	-0.3	0.3	1.9	5.4	7.6	9.1	10.4	10.6	9.5	3.4	2.5	2.8	4.3	5.5	5.6	4.8	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 10m (AT10) - C

Fort McKay - Bertha Ganter - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	213	31.70	31.70
-20 - 0	417	62.05	93.75
0 - 10	40	5.95	99.70
10 - 20	2	0.30	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 10.3 C on Feb 4 15:00

Maximum Daily Average: 1.0 C on Feb 13

Minimum Value: -38.0 C on Feb 28 07:00

Minimum Daily Average: -30.4 C on Feb 18

Maximum Diurnal Average: -11.7 C at hour 16

Minimum Diurnal Average: -18.5 C at hour 8

Monthly Average: -15.66 C

Percentiles: P_1 = -36.9 P_{10} = -28.5 Q_1 = -23.1 Median = -15.1 Q_3 = -9.3 P_{90} = -3.4 P_{99} = 6.1

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

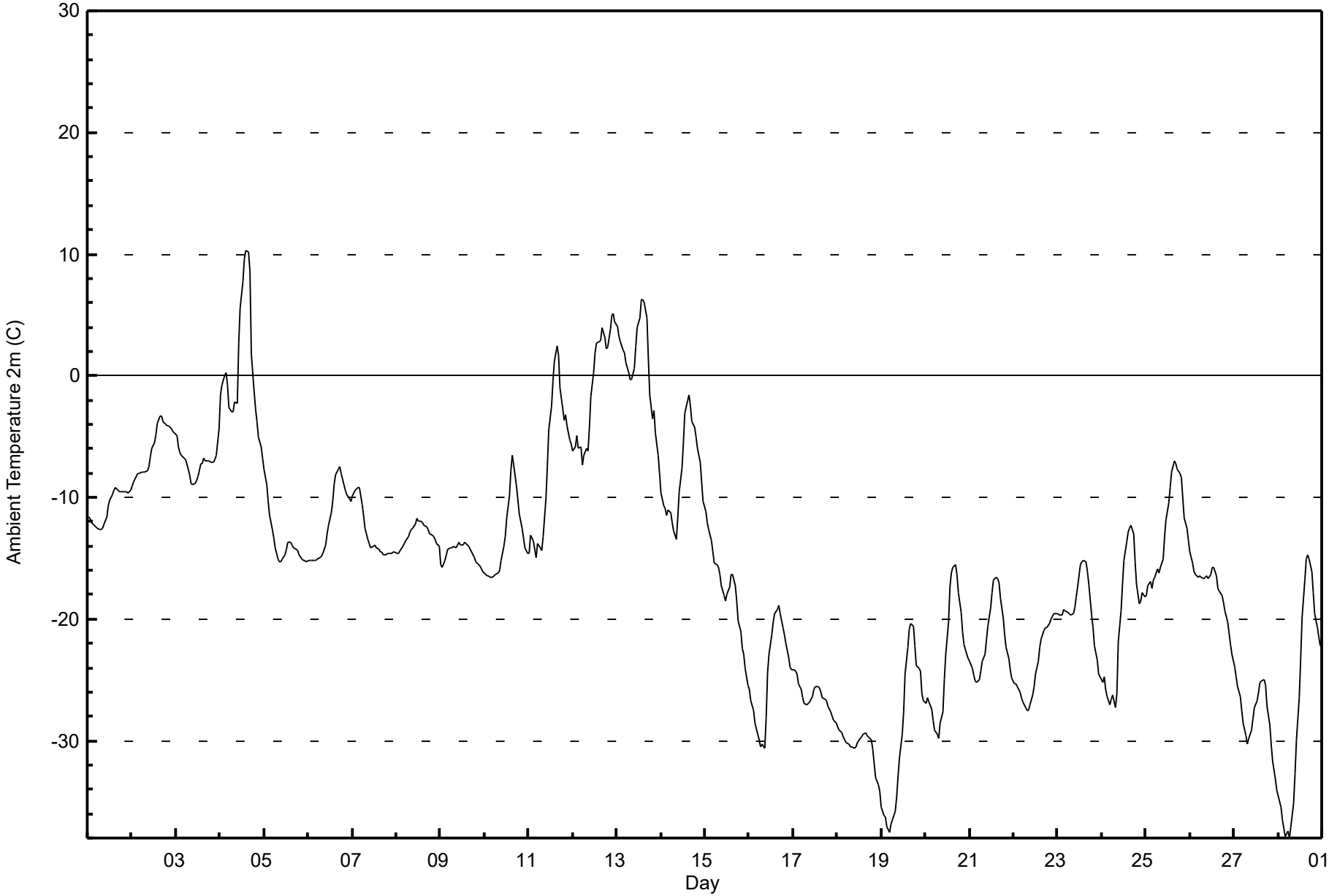
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.6	-11.8	-12.0	-12.3	-12.4	-12.6	-12.7	-12.7	-12.5	-12.1	-11.6	-10.7	-10.3	-9.8	-9.4	-9.1	-9.4	-9.5	-9.6	-9.5	-9.5	-9.5	-9.6	-9.4	-10.8	-9.1
2-Feb	-9.1	-8.8	-8.3	-8.0	-8.0	-7.9	-8.0	-7.9	-7.9	-7.4	-6.7	-5.9	-5.5	-4.8	-3.9	-3.3	-3.4	-3.8	-4.0	-4.1	-4.2	-4.4	-4.6	-4.7	-6.0	-3.3
3-Feb	-5.0	-5.9	-6.3	-6.6	-6.8	-6.9	-7.2	-8.1	-8.8	-9.0	-8.9	-8.6	-8.3	-7.3	-7.2	-6.8	-7.0	-7.0	-7.1	-7.1	-7.1	-6.9	-6.6	-4.4	-7.1	-4.4
4-Feb	-1.6	-0.7	0.0	0.2	-0.8	-2.6	-2.9	-3.0	-2.2	-2.3	2.7	5.6	7.7	9.6	10.3	10.1	8.6	1.7	-1.4	-2.7	-3.8	-5.0	-5.8	-6.8	0.6	10.3
5-Feb	-7.6	-8.9	-10.4	-11.5	-12.7	-13.3	-14.2	-15.1	-15.3	-15.3	-15.1	-14.7	-14.2	-13.6	-13.7	-13.9	-14.1	-14.2	-14.3	-14.7	-15.0	-15.2	-15.2	-15.3	-13.7	-7.6
6-Feb	-15.2	-15.2	-15.2	-15.1	-15.2	-15.1	-15.0	-14.8	-14.6	-13.9	-13.0	-12.3	-11.3	-10.3	-9.0	-8.2	-7.7	-7.5	-8.1	-8.9	-9.4	-9.7	-10.1	-10.3	-11.9	-7.5
7-Feb	-9.9	-9.4	-9.3	-9.2	-9.2	-10.6	-11.5	-12.5	-13.4	-13.8	-14.2	-14.0	-13.9	-14.1	-14.3	-14.5	-14.5	-14.7	-14.8	-14.7	-14.6	-14.6	-14.5	-14.5	-12.9	-9.2
8-Feb	-14.6	-14.6	-14.4	-14.0	-13.8	-13.5	-13.2	-12.8	-12.7	-12.5	-12.2	-11.7	-11.9	-12.0	-12.1	-12.3	-12.5	-12.7	-12.9	-13.1	-13.2	-13.4	-13.8	-14.0	-13.1	-11.7
9-Feb	-15.5	-15.7	-15.2	-14.7	-14.3	-14.2	-14.1	-14.0	-14.1	-13.9	-13.7	-13.9	-13.9	-13.7	-13.8	-14.0	-14.2	-14.5	-14.9	-15.2	-15.4	-15.7	-15.9	-16.1	-14.6	-13.7
10-Feb	-16.3	-16.4	-16.5	-16.6	-16.6	-16.5	-16.4	-16.3	-16.0	-15.2	-14.0	-13.2	-11.7	-9.9	-7.8	-6.5	-7.3	-9.1	-10.2	-11.4	-12.5	-13.3	-14.1	-14.6	-13.3	-6.5
11-Feb	-14.6	-13.1	-13.5	-14.3	-14.9	-13.9	-14.2	-14.3	-13.2	-10.1	-7.5	-4.5	-2.5	-0.4	1.2	2.5	1.6	-1.0	-2.8	-3.6	-3.2	-4.1	-5.3	-5.6	-7.1	2.5
12-Feb	-6.2	-5.9	-5.0	-5.9	-5.9	-7.3	-6.5	-6.0	-6.2	-4.2	-1.7	0.3	1.8	2.7	2.8	3.0	3.9	3.2	2.2	2.4	3.8	4.9	5.1	4.4	-0.8	5.1
13-Feb	4.0	3.3	2.8	2.1	1.8	1.1	0.3	-0.4	-0.3	0.7	2.3	3.9	4.8	6.2	6.2	6.1	4.8	1.4	-1.5	-3.5	-2.8	-4.7	-6.5	-8.0	1.0	6.2
14-Feb	-9.6	-10.7	-10.9	-11.5	-11.0	-11.2	-12.1	-12.8	-13.4	-11.6	-9.5	-7.6	-5.6	-3.1	-2.0	-1.5	-2.5	-3.8	-4.2	-5.1	-6.0	-7.1	-8.8	-10.3	-8.0	-1.5
15-Feb	-11.2	-12.1	-12.6	-13.5	-14.5	-15.4	-15.5	-15.8	-16.3	-17.3	-18.1	-18.5	-17.9	-17.3	-16.4	-16.4	-17.2	-18.5	-20.1	-21.0	-22.4	-22.9	-24.0	-25.5	-17.5	-11.2
16-Feb	-25.8	-26.7	-27.6	-28.5	-29.0	-29.9	-30.5	-30.2	-30.6	-28.1	-24.4	-22.9	-21.3	-20.2	-19.6	-19.2	-18.9	-19.6	-20.7	-21.3	-22.0	-23.1	-23.9	-24.2	-24.5	-18.9
17-Feb	-24.1	-24.3	-24.5	-25.3	-25.8	-26.5	-27.0	-27.1	-27.0	-26.8	-26.3	-25.8	-25.6	-25.5	-25.6	-26.0	-26.4	-26.6	-26.7	-27.2	-27.7	-28.0	-28.3	-28.6	-26.4	-24.1
18-Feb	-28.8	-29.1	-29.4	-29.7	-30.0	-30.2	-30.3	-30.5	-30.6	-30.6	-30.5	-30.2	-29.8	-29.6	-29.4	-29.4	-29.5	-29.7	-29.9	-30.7	-31.9	-33.0	-33.6	-34.2	-30.4	-28.8
19-Feb	-35.4	-36.1	-36.2	-37.1	-37.5	-36.8	-36.6	-35.8	-34.6	-33.0	-31.4	-29.5	-27.6	-24.6	-22.4	-20.8	-20.4	-20.6	-22.2	-23.8	-24.1	-24.3	-26.1	-26.7	-29.3	-20.4
20-Feb	-27.0	-26.5	-26.8	-27.4	-28.3	-29.1	-29.5	-29.8	-28.5	-27.7	-25.0	-22.9	-20.3	-17.3	-16.2	-15.8	-15.5	-16.3	-17.8	-19.5	-21.0	-22.1	-22.8	-23.3	-23.2	-15.5
21-Feb	-23.5	-24.1	-24.6	-25.1	-25.2	-25.0	-24.3	-23.5	-22.9	-21.8	-20.6	-19.1	-17.8	-16.7	-16.5	-16.7	-17.0	-18.3	-19.9	-21.2	-22.3	-23.2	-24.1	-24.8	-21.6	-16.5
22-Feb	-25.3	-25.3	-25.5	-26.1	-26.4	-26.8	-27.3	-27.5	-27.5	-27.0	-26.2	-25.6	-24.6	-23.5	-22.4	-21.6	-20.9	-20.8	-20.7	-20.4	-20.1	-19.8	-19.6	-19.6	-23.8	-19.6
23-Feb	-19.6	-19.7	-19.7	-19.3	-19.4	-19.4	-19.6	-19.6	-19.5	-19.1	-18.2	-17.4	-15.5	-15.3	-15.2	-15.3	-16.1	-17.2	-19.7	-20.7	-22.2	-23.4	-24.5	-24.8	-19.2	-15.2
24-Feb	-25.1	-24.8	-25.8	-26.3	-27.0	-26.6	-26.2	-27.2	-26.1	-21.9	-19.3	-17.2	-15.2	-13.7	-12.9	-12.5	-12.3	-13.0	-15.3	-17.2	-18.7	-18.5	-17.8	-18.2	-20.0	-12.3
25-Feb	-18.0	-17.3	-16.9	-17.4	-16.8	-16.6	-15.9	-16.2	-15.8	-15.0	-13.2	-11.8	-10.5	-9.2	-7.9	-7.0	-7.2	-7.7	-8.1	-8.4	-10.1	-11.7	-12.5	-13.5	-12.7	-7.0
26-Feb	-14.5	-15.4	-16.1	-16.4	-16.5	-16.5	-16.6	-16.7	-16.6	-16.5	-16.6	-16.4	-15.7	-15.8	-16.5	-17.5	-17.7	-18.1	-18.6	-19.3	-20.3	-21.2	-22.2	-23.0	-17.5	-14.5
27-Feb	-23.9	-24.8	-25.5	-26.3	-27.5	-28.5	-29.6	-30.3	-29.8	-29.1	-28.2	-27.3	-26.7	-26.0	-25.2	-25.1	-25.0	-25.4	-27.2	-28.6	-30.3	-31.7	-33.1	-34.1	-27.9	-23.9
28-Feb	-34.5	-35.5	-36.5	-37.2	-37.8	-37.4	-38.0	-37.0	-35.1	-32.7	-29.9	-26.5	-23.4	-19.9	-16.8	-15.1	-14.7	-15.1	-16.1	-17.8	-19.5	-20.7	-21.5	-22.2	-26.7	-14.7
	-16.8	-17.0	-17.2	-17.6	-17.9	-18.2	-18.4	-18.5	-18.3	-17.4	-16.1	-14.9	-13.8	-12.7	-12.0	-11.7	-11.9	-12.8	-13.8	-14.6	-15.2	-15.8	-16.4	-16.9	Diurnal Average	
	4.0	3.3	2.8	2.1	1.8	1.1	0.3	-0.4	-0.3	0.7	2.7	5.6	7.7	9.6	10.3	10.1	8.6	3.2	2.2	2.4	3.8	4.9	5.1	4.4	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Fort McKay - Bertha Ganter - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	211	31.40	31.40
-20 - 0	419	62.35	93.75
0 - 10	40	5.95	99.70
10 - 20	2	0.30	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 93.8 % on Feb 4 08:00

Maximum Daily Average: 83.5 % on Feb 4

Minimum Value: 35.7 % on Feb 13 16:00

Minimum Daily Average: 52.5 % on Feb 13

Maximum Diurnal Average: 77.2 % at hour 7

Minimum Diurnal Average: 65.0 % at hour 15

Monthly Average: 73.32 %

Percentiles: P_1 = 46.7 P_{10} = 60.0 Q_1 = 66.6 Median = 74.2 Q_3 = 81.0 P_{90} = 85.5 P_{99} = 92.4

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

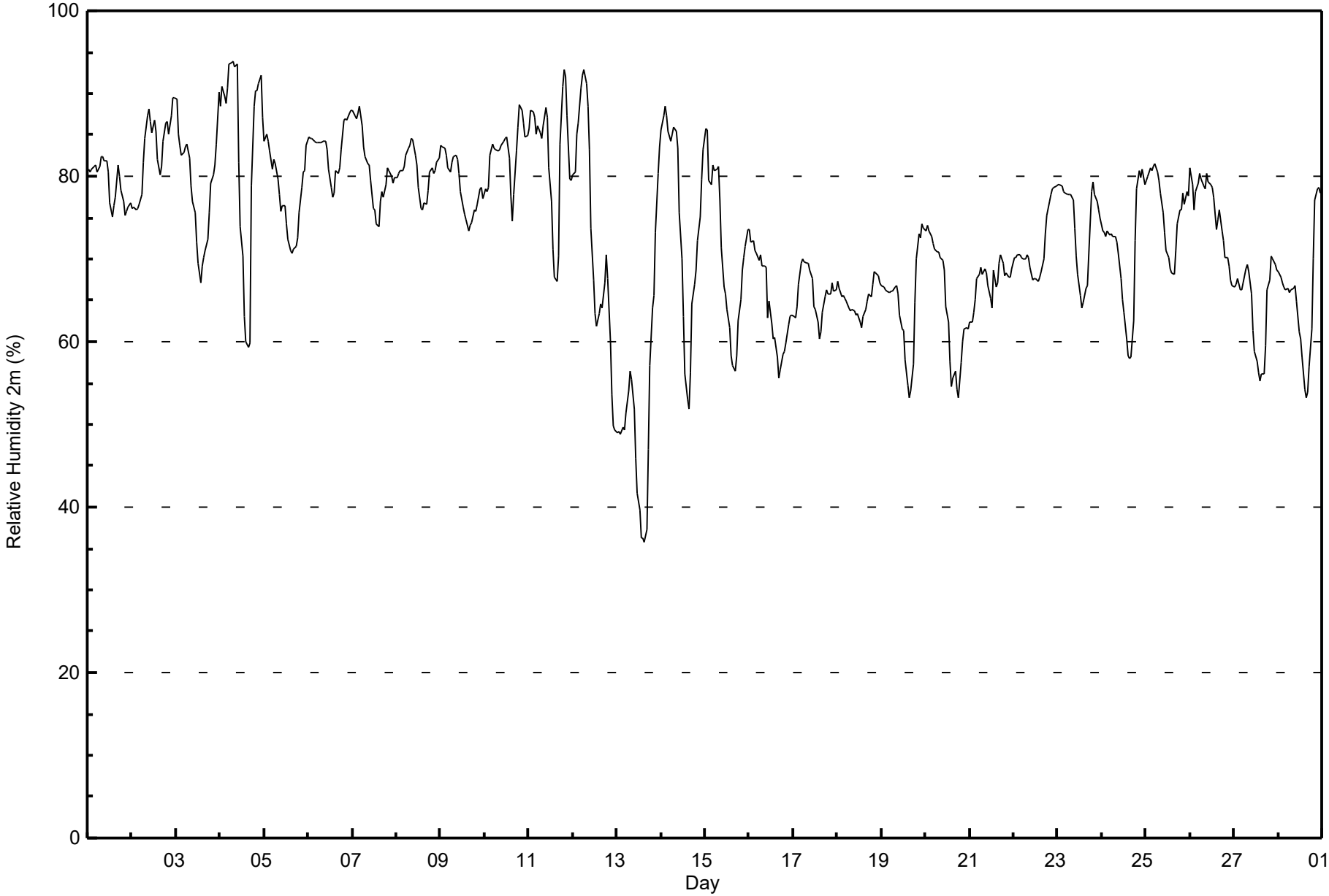
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	80.8	80.6	80.9	81.1	81.3	80.4	81.2	82.4	82.3	81.9	81.9	80.5	76.8	75.0	76.4	77.5	81.4	80.0	78.3	76.9	75.2	75.8	76.3	76.8	79.2	82.4
2-Feb	76.1	76.2	76.0	76.2	76.6	77.9	81.7	84.6	87.3	88.1	86.7	85.3	86.8	85.4	82.0	80.1	81.3	84.2	86.5	86.6	85.1	87.2	89.4	89.5	83.2	89.5
3-Feb	89.4	85.1	83.7	82.6	82.9	83.6	83.9	82.2	78.8	77.0	75.6	72.0	69.5	67.2	69.2	70.2	71.0	72.3	75.6	79.1	80.2	81.4	83.9	90.2	78.6	90.2
4-Feb	88.5	90.9	89.7	88.8	90.7	93.6	93.7	93.8	93.3	93.5	81.6	73.9	70.3	63.1	60.0	59.3	59.8	78.8	88.4	90.4	90.3	91.2	92.3	87.1	83.5	93.8
5-Feb	84.2	85.0	84.3	83.0	80.8	82.1	81.5	79.6	77.8	75.8	76.4	76.5	74.3	72.3	71.1	70.6	71.1	71.5	72.6	75.6	78.6	80.4	80.8	83.7	77.9	85.0
6-Feb	84.8	84.6	84.6	84.2	84.1	84.1	84.0	84.1	84.3	84.3	83.2	80.8	78.7	77.4	78.0	80.7	80.4	81.0	83.2	86.8	86.9	86.8	87.6	87.9	83.4	87.9
7-Feb	87.9	87.2	86.9	87.7	88.4	86.2	83.5	82.3	81.6	81.3	79.4	76.1	76.0	74.2	73.8	77.0	78.1	77.5	79.1	81.0	80.6	80.0	79.2	79.8	81.0	88.4
8-Feb	79.8	80.4	80.7	80.6	81.1	82.6	83.4	83.8	84.6	84.4	82.6	81.3	78.6	76.1	75.9	76.8	76.7	78.4	80.5	81.1	80.3	80.7	81.7	82.2	80.6	84.6
9-Feb	83.7	83.5	83.3	82.5	81.0	80.5	81.6	82.4	82.5	82.1	80.3	78.1	76.3	75.4	74.7	73.3	74.0	74.3	75.9	75.8	76.6	78.5	78.6	77.4	78.9	83.7
10-Feb	78.5	78.1	78.7	82.5	83.9	83.5	83.1	83.0	83.2	83.8	84.3	84.6	84.8	82.3	77.7	74.6	77.8	83.0	85.9	88.7	88.0	86.5	84.8	85.0	82.8	88.7
11-Feb	85.8	88.0	87.8	87.1	85.0	86.2	85.3	84.6	86.1	88.2	87.1	81.0	76.9	71.1	67.7	67.2	70.3	83.9	90.9	92.9	92.0	87.2	79.6	79.5	83.0	92.9
12-Feb	80.2	80.5	85.1	86.4	90.7	92.3	92.9	91.2	88.5	83.2	73.7	67.4	63.4	61.9	63.4	64.5	64.1	67.2	70.4	67.6	60.0	53.5	49.8	49.4	72.8	92.9
13-Feb	49.0	49.2	48.8	49.7	49.3	51.3	54.1	56.4	55.5	51.8	46.0	41.7	39.7	36.2	36.3	35.7	37.2	47.0	57.1	64.1	65.5	73.3	80.4	83.6	52.5	83.6
14-Feb	85.6	87.3	88.4	87.3	85.4	84.3	85.1	86.0	85.5	83.3	75.7	70.1	63.0	56.1	53.1	51.8	56.3	64.6	67.0	68.7	72.2	75.1	79.6	83.3	74.8	88.4
15-Feb	85.7	85.6	79.4	79.1	81.4	80.7	80.9	81.1	77.2	71.4	66.7	65.8	64.0	61.6	58.3	57.1	56.5	58.3	62.6	65.0	68.7	70.2	71.6	73.6	70.9	85.7
16-Feb	73.6	72.0	72.2	71.0	70.7	69.9	70.6	69.2	69.1	68.9	62.9	65.0	62.2	60.3	60.5	58.1	55.6	56.6	58.5	58.8	59.9	62.1	63.0	63.3	64.7	73.6
17-Feb	63.1	62.9	64.2	66.9	69.5	70.0	69.7	69.5	69.4	68.6	67.7	64.2	64.0	62.3	60.3	61.2	63.5	65.4	66.3	65.7	65.8	67.2	66.2	66.3	65.8	70.0
18-Feb	67.2	66.5	65.5	65.6	65.2	64.9	64.0	63.8	63.8	63.8	63.3	63.4	62.3	61.7	63.1	64.0	64.9	65.8	65.5	67.0	68.5	68.4	67.9	67.1	65.1	68.5
19-Feb	66.7	66.6	66.3	66.1	65.9	66.1	66.1	66.6	66.8	65.7	63.3	61.6	61.4	57.8	54.7	53.1	54.1	57.3	64.7	70.1	73.0	72.6	74.2	73.7	64.8	74.2
20-Feb	73.4	74.0	73.4	72.8	71.9	71.2	70.8	70.8	70.2	69.9	68.6	64.2	62.5	57.6	54.5	55.6	56.5	54.2	53.2	57.4	59.9	61.5	61.7	61.6	64.5	74.0
21-Feb	62.3	62.4	63.6	65.2	67.7	68.1	69.0	68.1	68.8	68.3	66.8	65.2	64.0	68.7	66.7	67.1	69.5	70.6	69.5	67.9	68.2	67.8	67.7	68.9	67.2	70.6
22-Feb	70.2	70.2	70.6	70.5	70.1	70.0	70.1	70.4	70.2	69.0	67.5	67.6	67.6	67.3	67.8	68.5	69.9	73.1	75.2	77.0	77.8	78.4	78.7	78.8	71.5	78.8
23-Feb	79.0	79.0	78.9	78.1	78.0	77.9	77.7	77.8	77.1	73.7	70.3	68.1	65.5	64.1	64.7	66.4	66.7	70.6	78.2	79.3	77.9	77.0	76.0	74.8	74.0	79.3
24-Feb	73.4	73.2	72.7	73.4	72.8	73.1	72.6	72.8	72.0	70.7	67.7	65.2	63.5	60.4	58.4	57.9	58.2	62.6	72.2	78.5	80.7	79.8	80.9	79.1	70.5	80.9
25-Feb	79.5	80.1	81.0	80.7	81.1	81.5	80.6	79.5	78.0	75.7	73.3	71.0	70.2	68.8	68.3	68.1	71.0	74.3	75.9	76.0	77.9	76.6	78.1	77.7	76.0	81.5
26-Feb	81.1	79.0	76.0	78.2	79.2	80.3	79.6	78.8	78.5	80.3	79.4	78.9	78.6	77.5	73.6	74.8	75.9	73.5	72.2	70.2	70.1	69.2	67.5	66.7	75.8	81.1
27-Feb	66.6	66.9	67.6	66.2	66.2	67.2	68.8	69.3	68.4	65.8	61.4	58.9	57.7	56.2	55.2	56.1	56.2	59.5	66.2	67.5	70.3	70.0	69.4	68.6	64.4	70.3
28-Feb	68.5	67.7	67.1	66.6	66.2	66.4	65.8	66.2	66.4	66.8	65.0	61.2	60.3	58.1	54.2	53.2	53.9	56.9	61.5	70.0	77.1	78.4	78.7	77.9	65.6	78.7
	76.6	76.5	76.3	76.4	76.7	77.0	77.2	77.2	76.7	75.6	72.8	70.3	68.5	66.3	65.0	65.0	66.1	69.4	72.6	74.5	75.3	75.6	75.9	76.2	Diurnal Average	
	89.4	90.9	89.7	88.8	90.7	93.6	93.7	93.8	93.3	93.5	87.1	85.3	86.8	85.4	82.0	80.7	81.4	84.2	90.9	92.9	92.0	91.2	92.3	90.2	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Precipitation (PC) - mm

Fort McKay - Bertha Ganter - February 2026

Maximum Value: 1.0 mm on Feb 8 09:00

Maximum Daily Total: 4.4 mm on Feb 5

Minimum Value: 0.0 mm on Feb 1 01:00

Minimum Daily Total: 0.0 mm on Feb 1

Maximum Diurnal Total: 2.3 mm at hour 2

Minimum Diurnal Total: 0.3 mm at hour 15

Monthly Total: 23.92 mm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.1 P_{99} = 0.6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

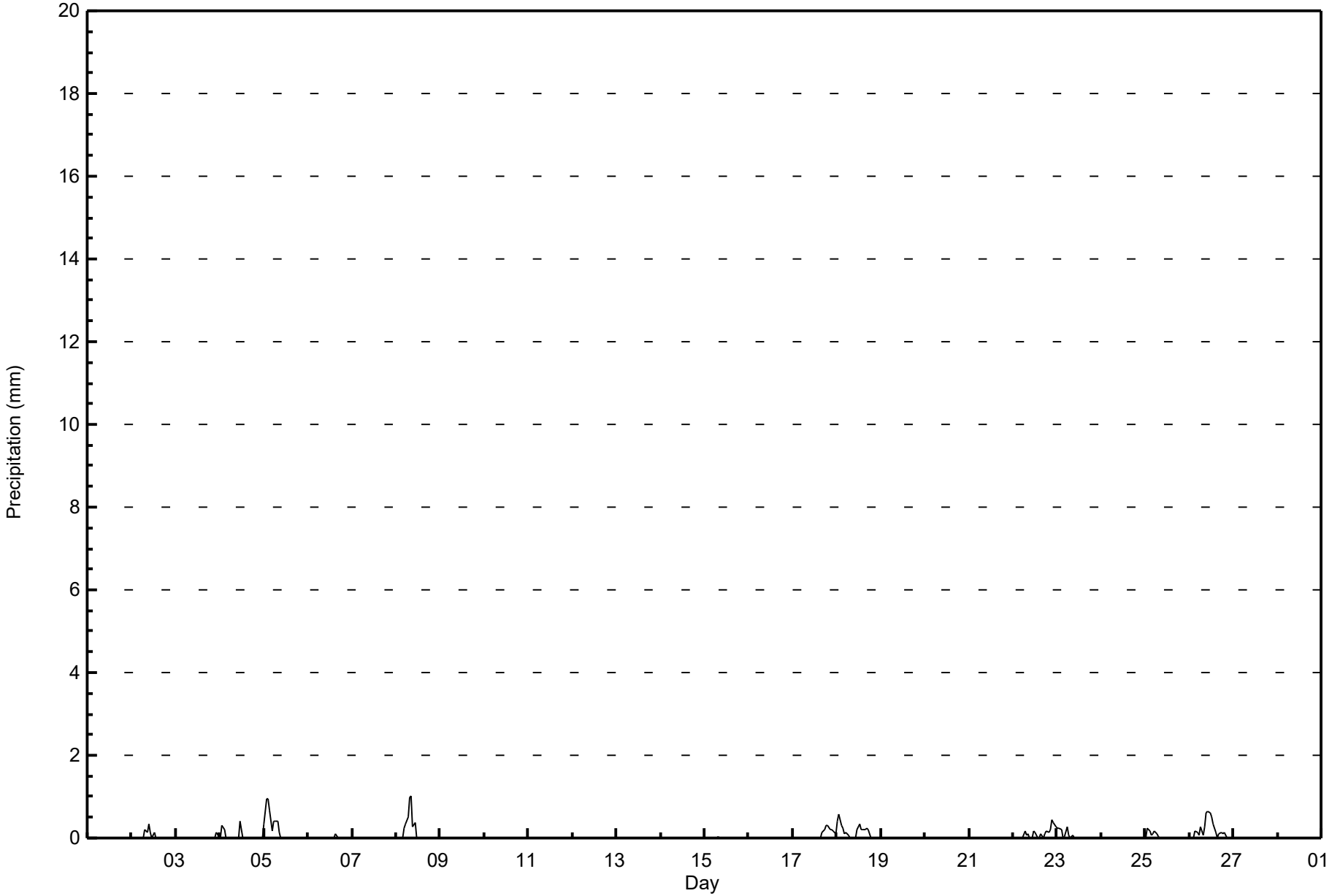
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Maximum
1-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3
3-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.2	0.1
4-Feb	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.4
5-Feb	0.3	1.0	0.9	0.7	0.2	0.4	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	1.0
6-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
7-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-Feb	0.0	0.0	0.0	0.0	0.2	0.3	0.5	1.0	1.0	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	1.0
9-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
16-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.1	1.6	0.3
18-Feb	0.4	0.6	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.6
19-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.1	0.2	0.1	0.2	0.4	0.4	0.3	2.3	0.4
23-Feb	0.2	0.3	0.2	0.0	0.1	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.3
24-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-Feb	0.0	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2
26-Feb	0.0	0.0	0.0	0.2	0.1	0.1	0.3	0.1	0.3	0.6	0.6	0.6	0.5	0.3	0.1	0.0	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	4.3	0.6
27-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	2.3	1.8	1.2	0.8	1.4	1.6	1.8	1.7	1.2	1.1	1.4	1.1	0.6	0.3	0.4	0.5	0.6	0.6	0.6	0.4	0.6	0.7	0.4	Diurnal Average	
	0.4	1.0	0.9	0.7	0.2	0.4	0.5	1.0	1.0	0.6	0.6	0.6	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.4	0.4	0.3	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Precipitation (PC) - mm

Fort McKay - Bertha Ganter - February 2026



Concentration Ranges (mm)	Number of Hours	%	Cumulative %
0 - 0.3	653	97.17	97.17
0.4 - 0.5	10	1.49	98.66
0.6 - 0.7	5	0.74	99.40
0.8 - 1.4	4	0.60	100.00
1.5 - 10	0	0.00	100.00
> 10	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Leaf Wetness (LW) - %

Fort McKay - Bertha Ganter - February 2026

Maximum Value: 38.8 % on Feb 4 11:00

Maximum Daily Average: 10.8 % on Feb 4

Minimum Value: 1.3 % on Feb 13 15:00

Minimum Daily Average: 2.1 % on Feb 13

Maximum Diurnal Average: 4.5 % at hour 11

Minimum Diurnal Average: 2.3 % at hour 15

Monthly Average: 3.25 %

Percentiles: P_1 = 1.7 P_{10} = 2.3 Q_1 = 2.6 Median = 2.7 Q_3 = 3.2 P_{90} = 4.0 P_{99} = 17.6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

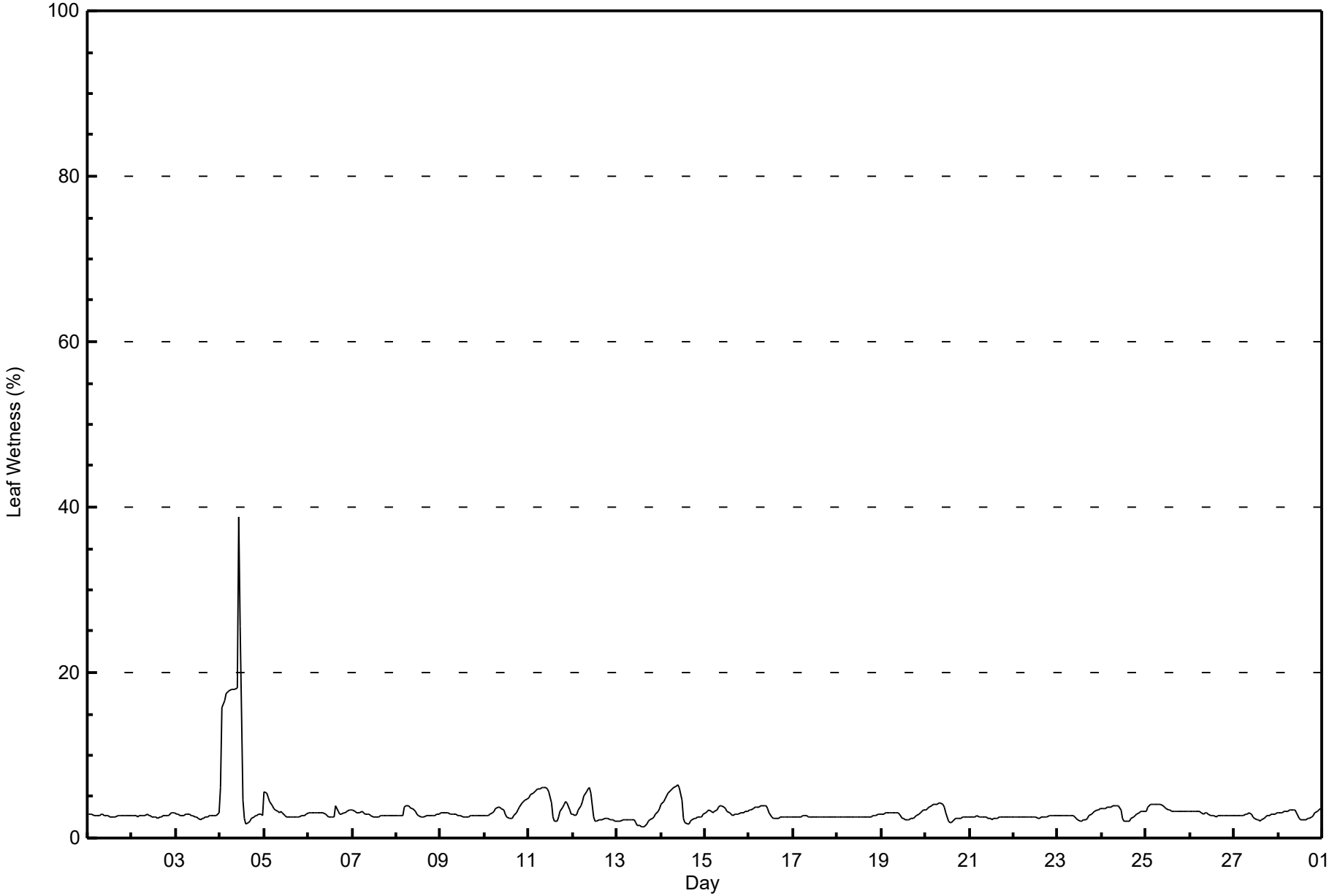
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.5	2.6	2.7	2.7	2.7	2.7	2.6	2.6	2.7	2.7	2.7	2.8
2-Feb	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.7	2.6	2.6	2.5	2.5	2.5	2.6	2.7	2.8	2.8	2.8	3.0	3.0	3.0	2.7	3.0
3-Feb	3.0	2.8	2.8	2.8	2.8	2.8	2.9	2.9	2.7	2.7	2.6	2.5	2.4	2.3	2.4	2.4	2.5	2.5	2.7	2.6	2.6	2.6	2.7	3.0	2.7	3.0
4-Feb	6.1	15.8	16.6	17.5	17.5	17.8	17.9	18.0	18.0	18.1	38.8	25.6	4.5	2.4	1.7	1.8	2.1	2.4	2.6	2.7	2.7	2.8	2.9	2.8	10.8	38.8
5-Feb	5.6	5.4	4.9	4.4	3.9	3.6	3.4	3.2	3.1	3.1	3.0	2.7	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.9	3.2	5.6
6-Feb	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	2.8	2.6	2.5	2.5	2.6	3.9	3.3	3.0	2.9	3.0	3.1	3.2	3.3	3.4	3.0	3.9
7-Feb	3.4	3.2	3.1	3.1	3.1	3.2	3.0	2.9	2.8	2.8	2.7	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	3.4
8-Feb	2.7	2.8	2.8	2.7	3.6	4.0	3.8	3.7	3.6	3.5	3.2	2.9	2.7	2.6	2.6	2.6	2.6	2.7	2.7	2.8	2.7	2.7	2.8	2.9	3.0	4.0
9-Feb	3.0	3.1	3.1	3.0	3.0	2.9	2.9	2.9	2.9	2.8	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.8	3.1
10-Feb	2.7	2.7	2.7	2.8	3.0	3.3	3.5	3.7	3.7	3.6	3.3	2.9	2.5	2.3	2.4	2.3	2.7	3.0	3.4	3.8	4.2	4.4	4.6	4.7	3.3	4.7
11-Feb	5.0	5.2	5.4	5.6	5.8	5.9	5.9	6.0	6.1	6.1	6.0	5.6	4.3	2.6	2.0	2.0	2.5	3.3	3.7	4.1	4.3	4.2	3.3	2.8	4.5	6.1
12-Feb	2.8	2.7	2.9	3.4	3.9	4.5	5.0	5.5	5.9	6.2	5.4	2.5	2.0	2.1	2.2	2.2	2.2	2.3	2.4	2.4	2.3	2.2	2.1	2.1	3.2	6.2
13-Feb	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	1.8	1.5	1.5	1.4	1.3	1.4	1.7	2.0	2.2	2.4	2.5	2.8	3.2	3.6	2.1	3.6
14-Feb	4.0	4.4	4.7	5.1	5.5	5.7	6.0	6.2	6.3	6.4	6.1	4.6	2.4	1.8	1.7	1.7	2.1	2.3	2.3	2.4	2.5	2.5	2.6	2.9	3.8	6.4
15-Feb	3.1	3.3	3.4	3.2	3.1	3.2	3.5	3.8	3.9	3.8	3.7	3.5	3.2	3.1	2.8	2.8	2.9	2.9	3.0	3.0	3.0	3.1	3.2	3.3	3.2	3.9
16-Feb	3.4	3.4	3.5	3.6	3.7	3.8	3.8	3.9	3.9	3.8	3.6	3.1	2.6	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.6	2.6	3.1	3.9
17-Feb	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
18-Feb	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.7	2.7	2.8	2.8	2.9	2.6	2.9
19-Feb	2.9	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.1	2.8	2.4	2.3	2.3	2.2	2.2	2.4	2.4	2.6	2.7	2.9	3.1	3.2	3.3	2.8	3.3
20-Feb	3.5	3.6	3.8	3.9	4.0	4.1	4.1	4.2	4.2	4.1	3.7	3.1	2.1	1.9	1.9	2.1	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.5	3.1	4.2
21-Feb	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.4	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.5	2.6
22-Feb	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.6	2.7
23-Feb	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.7	2.5	2.3	2.2	2.0	2.1	2.2	2.3	2.4	2.6	2.9	3.0	3.2	3.3	3.4	3.5	2.7	3.5
24-Feb	3.6	3.6	3.6	3.7	3.7	3.8	3.8	3.9	3.9	3.9	3.5	2.4	2.1	2.1	2.1	2.1	2.3	2.5	2.7	2.9	3.1	3.2	3.3	3.3	3.1	3.9
25-Feb	3.3	3.6	4.0	4.0	4.1	4.1	4.1	4.1	4.1	3.9	3.7	3.5	3.4	3.3	3.3	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.6	4.1
26-Feb	3.2	3.3	3.2	3.2	3.1	3.1	3.1	2.8	3.0	3.0	2.8	2.7	2.7	2.6	2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.8	3.3
27-Feb	2.6	2.6	2.6	2.6	2.7	2.7	2.8	2.9	3.0	2.9	2.6	2.3	2.3	2.2	2.1	2.2	2.4	2.6	2.7	2.8	2.8	2.9	2.9	3.0	2.6	3.0
28-Feb	3.0	3.1	3.1	3.1	3.2	3.2	3.3	3.4	3.4	3.3	3.1	2.4	2.3	2.2	2.1	2.1	2.3	2.4	2.5	2.7	3.0	3.2	3.4	3.5	2.9	3.5
	3.2	3.6	3.7	3.7	3.8	3.9	3.9	4.0	4.0	4.0	4.5	3.6	2.6	2.4	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.9	2.9	3.0	Diurnal Average	
	6.1	15.8	16.6	17.5	17.5	17.8	17.9	18.0	18.0	18.1	38.8	25.6	4.5	3.3	3.3	3.9	3.3	3.3	3.7	4.1	4.3	4.4	4.6	4.7	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Leaf Wetness (LW) - %

Fort McKay - Bertha Ganter - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 0.3	0	0.00	0.00
0.4 - 0.5	0	0.00	0.00
0.6 - 0.7	0	0.00	0.00
0.8 - 1.4	3	0.45	0.45
1.5 - 10	657	97.77	98.21
> 10	11	1.64	99.85

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Global Radiation (GR) - W/m2

Fort McKay - Bertha Ganter - February 2026

Maximum Value: 503.2 W/m2 on Feb 28 13:00

Maximum Daily Average: 129.5 W/m2 on Feb 28

Minimum Value: 0.0 W/m2 on Feb 1 01:00

Minimum Daily Average: 16.1 W/m2 on Feb 8

Maximum Diurnal Average: 254.5 W/m2 at hour 13

Minimum Diurnal Average: 0.0 W/m2 at hour 1

Monthly Average: 58.34 W/m2

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 77.7 P_{90} = 217.0 P_{99} = 432.6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

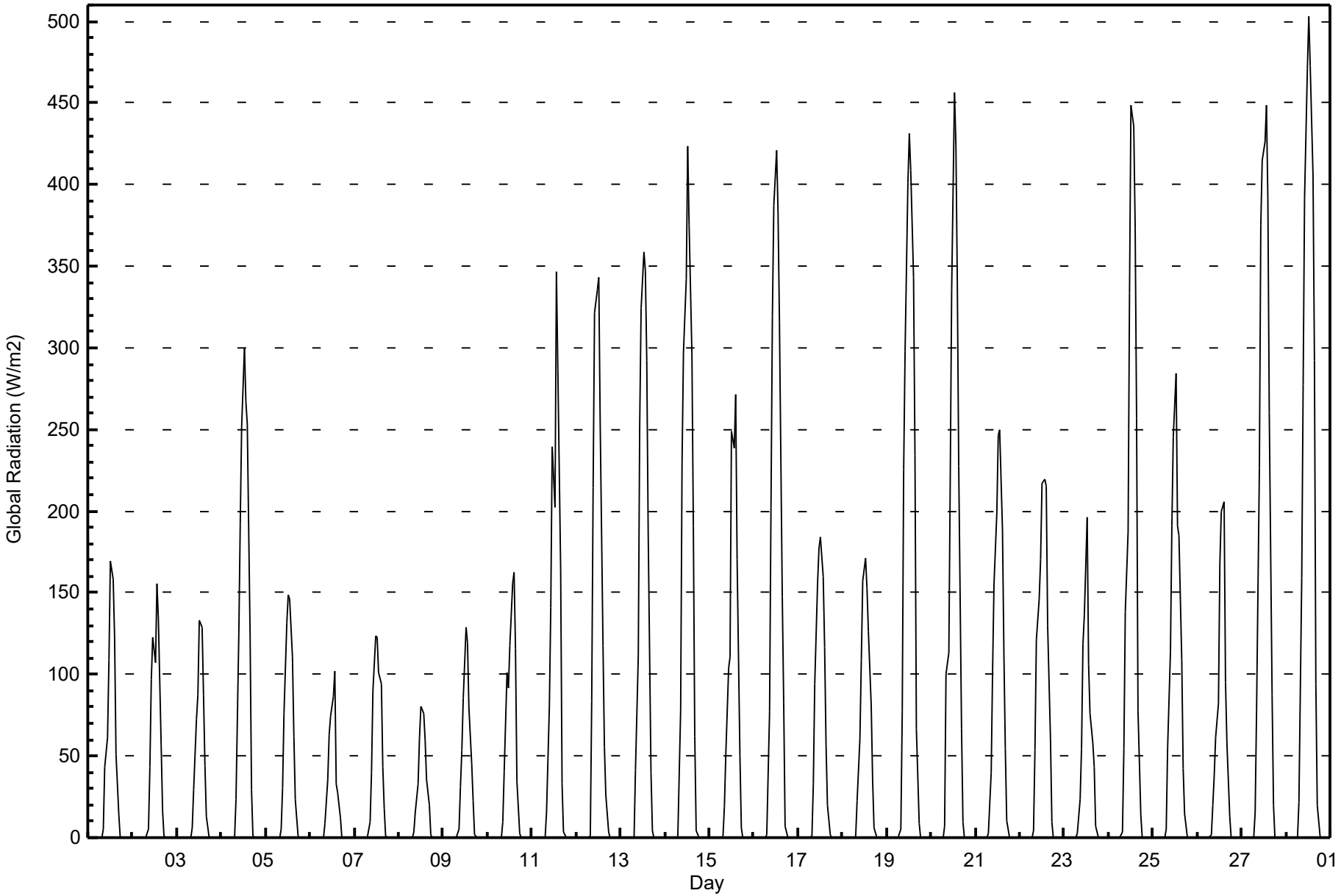
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	43.0	61.3	109.1	169.4	158.5	122.8	51.2	13.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	30.6	169.4
2-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	43.5	96.4	122.9	107.0	155.3	133.6	55.9	16.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	30.7	155.3
3-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	29.4	72.7	87.2	133.3	129.1	87.1	44.1	12.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	25.1	133.3
4-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	124.7	191.8	251.3	300.3	267.2	253.4	124.0	29.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	65.2	300.3
5-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	30.0	75.7	131.4	148.6	145.8	111.0	62.6	23.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	30.6	148.6
6-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	35.7	63.0	74.4	86.8	101.7	33.1	28.1	12.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	18.5	101.7
7-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	39.6	90.3	123.5	123.0	100.8	94.5	42.9	18.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	26.8	123.5
8-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	15.9	33.2	61.2	80.8	76.0	59.6	35.7	20.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	16.1	80.8
9-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	31.0	53.4	85.4	129.0	119.2	79.6	45.2	22.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	23.8	129.0
10-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	40.5	100.8	92.0	117.3	155.7	162.9	115.9	34.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	34.6	162.9
11-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	16.0	80.0	140.7	239.9	201.9	346.8	286.8	164.4	33.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	63.0	346.8
12-Feb	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	83.8	214.1	321.5	335.4	342.9	254.5	117.3	55.2	26.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	73.1	342.9
13-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	41.2	111.8	252.9	323.8	358.9	347.4	291.8	187.8	39.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	81.7	358.9
14-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	77.7	230.0	297.3	342.1	423.7	374.8	295.4	190.7	62.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	95.8	423.7
15-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	18.6	51.1	103.7	110.5	249.0	238.6	271.8	170.5	49.7	6.1	0.0	0.0	0.0	0.0	0.0	0.0	52.9	271.8
16-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	77.2	201.9	320.0	387.2	420.9	382.7	315.1	147.8	83.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0	97.7	420.9
17-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	32.6	93.9	155.4	177.2	184.2	160.1	117.1	57.1	20.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	41.7	184.2
18-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	22.2	60.2	109.2	157.2	171.5	152.9	126.4	81.1	35.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0	38.5	171.5
19-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	78.1	225.4	298.1	401.1	431.3	408.8	343.1	233.8	66.8	9.0	0.0	0.0	0.0	0.0	0.0	0.0	104.2	431.3
20-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	100.6	113.4	220.8	335.6	456.2	424.5	340.6	227.1	66.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0	95.9	456.2
21-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	39.5	102.9	155.4	198.5	246.7	249.8	188.1	113.6	54.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0	56.7	249.8
22-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	53.4	120.7	146.3	170.3	217.2	219.9	215.4	129.9	60.3	9.6	0.0	0.0	0.0	0.0	0.0	0.0	56.1	219.9
23-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	23.5	54.6	118.6	136.8	196.4	106.2	76.1	58.2	43.5	7.1	0.0	0.0	0.0	0.0	0.0	0.0	34.3	196.4
24-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	54.7	138.2	188.0	333.5	448.6	435.9	373.1	256.8	77.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	96.8	448.6
25-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	55.4	114.1	190.7	245.1	284.1	190.7	185.3	108.7	42.5	15.0	0.0	0.0	0.0	0.0	0.0	0.0	59.9	284.1
26-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	20.3	38.4	61.1	82.2	167.7	199.5	205.9	94.7	57.9	12.8	0.0	0.0	0.0	0.0	0.0	0.0	39.3	205.9
27-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	77.8	226.3	375.4	415.0	426.3	449.0	391.2	260.2	87.1	19.6	0.3	0.0	0.0	0.0	0.0	0.0	114.3	449.0
28-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	159.4	277.4	391.8	470.9	503.2	472.4	405.0	291.8	93.9	19.7	0.5	0.0	0.0	0.0	0.0	0.0	129.5	503.2
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	39.7	103.1	167.3	214.3	254.5	243.7	203.0	122.7	43.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	Diurnal Average	
	0.0	0.0	0.0	0.1	0.0	0.0	0.0	21.9	159.4	277.4	391.8	470.9	503.2	472.4	405.0	291.8	93.9	19.7	0.5	0.0	0.0	0.0	0.0	0.0	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Global Radiation (GR) - W/m2

Fort McKay - Bertha Ganter - February 2026



Concentration Ranges (W/m2)	Number of Hours	%	Cumulative %
0 - 20	439	65.33	65.33
21 - 100	87	12.95	78.27
101 - 300	109	16.22	94.49
301 - 600	37	5.51	100.00
601 - 900	0	0.00	100.00
> 900	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Fort McKay - Bertha Ganter - February 2026

Maximum Speed: 29 km/h on Feb 17 20:00

Maximum Daily Speed Average: 22.4 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 10 20:00

Minimum Daily Speed Average: 0.7 km/h on Feb 14

Maximum Diurnal Speed Average: 5.3 km/h at hour 20

Minimum Diurnal Speed Average: 2.3 km/h at hour 6

Monthly Average Velocity: 3.0 km/h 22.8 deg

Percentiles: $P_1 = 1$ $P_{10} = 2$ $Q_1 = 4$ Median = 7 $Q_3 = 11$ $P_{90} = 16$ $P_{99} = 26$

Hours in Service: 672

Hours of Data: 666

Hours of Missing Data: 6

Percent Operational Time: 99.1

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ENE3	ESE4	SE5	SE5	SSE7	SSE6	SSE7	SSE6	SSE6	SSE6	SSE7	S11	SSE13	S12	S10	S10	SSE10	SE8	SSE8	SSE10	SSE12	S10	S10	S9	SSE7.7	SSE13
2-Feb	S12	S11	S12	S10	S10	SSE9	S7	S7	SSE5	SSE7	SSE9	SSE8	SSE8	SSE9	SSE7	S4	SSE3	NNE1	N3	N5	N6	NNE7	N5	NNE5	SSE4.6	S12
3-Feb	N9	NNE9	NNE5	NE5	NNE3	NE3	NE5	NE6	NE5	NE6	NE5	E3	NNE2	ENE2	NW4	NE3	NNE3	UO	UO	N3	NNE3	NNW2	N1	S6	NNE3.4	N9
4-Feb	S12	S14	S15	S13	SW3	W3	SSW3	W2	SSW2	S4	S4	SW3	WSW6	SW5	SW5	SW5	NW6	NNE16	NNE16	N16	N16	N14	N13	N14	NNW1.2	NNE16
5-Feb	NNE13	NNE14	N16	NNE15	N16	N13	N17	NNE18	NNE15	NNE13	N11	NNE8	NE6	ENE5	ENE6	NE6	NE6	ENE6	NE4	NE6	NE6	NE5	N5	NNE5	NNE9.3	NNE18
6-Feb	N5	N5	NNW5	N4	N4	N5	N5	NNW4	N4	N6	N5	NNE5	NNE0	SSE2	S6	SSE8	SSE6	SE3	WNW2	W3	W4	NW2	S1	S3	N1.3	SSE8
7-Feb	N2	NW2	NNW1	N4	NNE10	NNE10	NNE9	NNE10	NNE12	NNE12	NNE10	NE9	NNE11	NNE11	NE9	NNE10	NNE7	N9	N9	N9	N9	N9	N9	NNW9	NNE8.2	NNE12
8-Feb	NNW9	NNW8	N6	NW6	NNW6	N3	NW2	NW5	N2	N6	NNW8	N9	N12	N9	N8	N9	N7	NNE5	NNE5	ENE3	NE4	ENE3	NNE2	SE2	N5.2	N12
9-Feb	NNW1	N1	NNE2	NE1	NE3	NNE3	N4	NE4	NNE6	NNE7	NNE8	N12	NNE11	N12	N12	N12	N11	N11	N11	N9	NNE8	N7	N8	N8	N7.0	N12
10-Feb	N8	NNW6	NNW7	NNW7	NNW5	NW4	NW3	WNW1	WNW2	SW1	S3	SE4	SE5	SSE6	SSW7	S7	SW3	SW3	SSW1	SSE0	S4	S3	S3	S3	SW0.9	N8
11-Feb	S6	S8	S6	S4	S2	SSW5	S4	S5	S5	SSW5	SSW4	S5	S7	S7	S7	S7	S7	SSW2	S1	S3	SW3	NNE5	NNE4	NE1	S3.9	S8
12-Feb	NNW1	SSW1	SSW5	SSE2	SSE2	S4	SSE6	S6	S7	SSE9	SSE11	SSE12	SSE11	SSE13	S9	S9	S10	S11	S9	S9	S10	SW9	SW10	SW9	S7.1	SSE13
13-Feb	SW7	SW9	WSW9	WSW9	WSW12	W11	W8	W6	SSW5	SW7	WSW7	WSW7	SW9	SW8	SW7	SW7	SW5	S2	SW5	NNW2	NW7	NNW2	WNW2	W3	WSW5.7	WSW12
14-Feb	S4	SSW2	S6	S7	S8	S7	S4	SW3	N1	NE2	ENE3	ENE4	E3	SE2	E2	NE3	N7	NNW8	N6	NW4	N4	NNE5	N11	NNE3	NE0.7	N11
15-Feb	N8	NNE7	NNE10	N10	N12	NNE7	NNE8	NNE8	NNE9	NE10	NE10	NE9	NE7	E4	ENE5	ENE6	NE7	NNE5	NNE6	N5	N6	N3	NNE2	NW3	NNE6.4	N12
16-Feb	NNW4	W2	W2	W3	W2	WNW3	NW3	WSW2	WNW3	ENE1	ENE2	NNE6	N7	NNE8	NNE12	NNE11	N13	NNE13	N13	NNE13	NNE18	N17	N17	N16	N7.1	NNE18
17-Feb	NNE17	NNE19	NNE17	NNE15	NNE15	NNE16	NNE19	NNE19	NNE19	NNE22	NNE24	NNE26	NNE26	NNE25	N26	N27	N26	NNE26	N28	N29	N25	NNE24	NNE25	N25	NNE22.4	N29
18-Feb	N25	NNE25	NNE26	NNE26	N25	NNE26	NNE28	N24	NNE23	NNE25	N22	NNE18	NNE18	NNE18	NNE16	NNE14	N14	N12	NNW8	NW5	WSW3	WSW2	SW2	S3	N16.3	NNE28
19-Feb	S4	S5	S4	S3	S5	S3	S5	S8	S9	SSE13	SSE15	SSE16	SSE15	S14	SSE14	S11	S10	S8	S5	S6	S6	S5	SSW3	S5	S8.0	SSE16
20-Feb	S6	S8	S8	S6	S5	S5	SSW5	S6	S5	S6	SSE6	SSE8	SSE6	ESE3	NNE5	NNE8	NNE8	N11	N13	NNE16	N12	N11	N10	N8	NE1.4	NNE16
21-Feb	N9	N9	NNE9	NNE7	E2	S4	S3	SE1	W3	SW2	WNW0	NE4	ENE4	ENE5	N14	NNE13	NNE13	N16	N15	NNE15	NNE13	NNE14	NNE15	NNE14	NNE7.3	N16
22-Feb	NNE10	NNE10	NNE11	N11	N12	N14	N13	N11	N11	N10	N9	N9	N9	N9	N9	N8	N7	NNW6	N6	N5	N5	N3	UO	UO	N8.9	N14
23-Feb	N3	N3	NNE1	S3	SE3	SSE4	SSE4	S3	ESE2	S6	SSE7	SE6	SE4	NE4	ENE4	NE4	NE5	NE3	NW3	WNW3	NNW1	WNW2	WNW3	SW1	ESE1.0	SSE7
24-Feb	SSW3	S3	S3	S3	S4	S4	SSW4	SSW1	UO	S5	SSE10	SSE11	SSE11	SSE13	SSE14	SSE12	S9	S6	S4	SSE2	S3	S4	SSW2	N2	S5.4	SSE14
25-Feb	N3	N4	N3	WNW2	WNW2	UO	SSW2	S2	S3	SSE4	SSE9	SSE12	SSE12	S9	S7	SSE3	N5	N9	N9	NNE12	N14	N13	NNE12	NNE13	NE2.0	N14
26-Feb	NNE10	NNE11	NNE11	NNE12	NNE10	NNE10	N13	N14	NNE13	NNE14	N18	N21	N21	NNE23	N24	NNE21	N21	N26	N24	N29	N25	N18	N16	NNE17	N17.5	N29
27-Feb	NNE16	NNE17	NNE15	NNE13	NNE12	NNE8	NNE5	NNE5	NE6	NE6	NE7	ENE6	E6	E8	E7	NE6	NE5	NNE2	N3	NW2	WNW3	WNW2	WNW4	W3	NNE5.7	NNE17
28-Feb	W2	SSW3	SSW3	SW2	SSW3	SSW5	S5	S6	S7	SSE8	SSE14	SSE12	SSE13	S14	S14	S16	S14	S12	S8	S6	S3	S5	S5	NW3	S7.2	S16
	N3.6	NNE3.1	NNE2.6	NNE2.5	NNE2.8	N2.3	NNE2.6	NNE2.6	NNE2.8	NE2.6	ENE2.5	ENE2.9	ENE2.7	E2.6	NE2.4	NE2.6	NNE3.4	NNE4.8	N5.2	N5.3	N4.8	N4.4	N4.6	N3.8	Diurnal Average	
	N25	NNE25	NNE26	NNE26	N25	NNE26	NNE28	N24	NNE23	NNE25	NNE24	NNE26	NNE26	NNE25	N26	N27	N26	N26	N28	N29	N25	NNE24	NNE25	NNE25	Diurnal Maximum	

UO - Unstable Operation

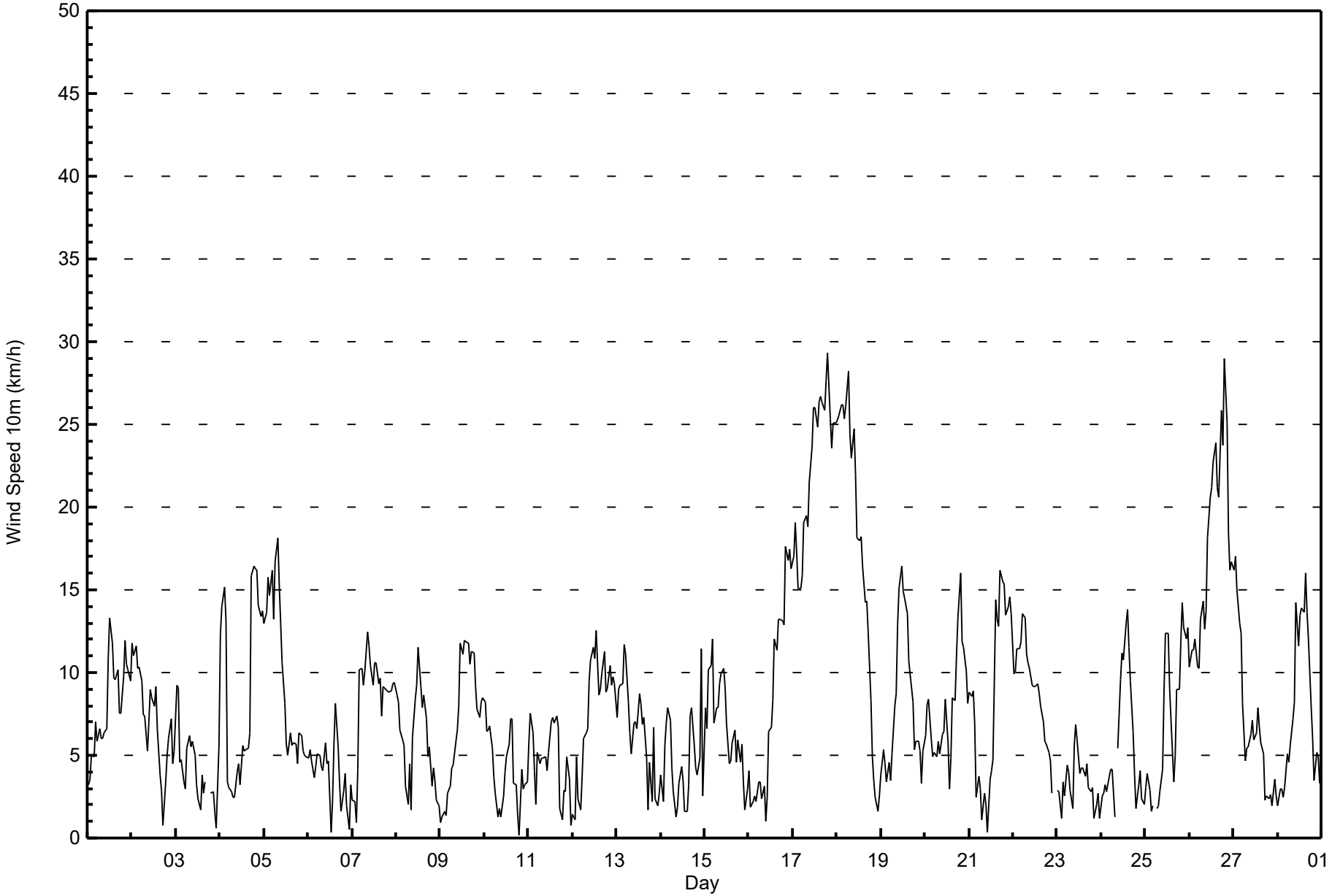
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Fort McKay - Bertha Ganter - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	272	40.84	40.84
6 - 11	242	36.34	77.18
12 - 19	116	17.42	94.59
20 - 28	34	5.11	99.70
29 - 38	2	0.30	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 666

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Fort McKay - Bertha Ganter - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	34	27	21	13	5	3	9	12	54	23	16	3	12	15	14	11	272
6 - 11	52	41	16	5	3	0	2	34	56	1	10	5	3	0	3	11	242
12 - 19	36	49	0	0	0	0	0	17	13	0	0	1	0	0	0	0	116
20 - 28	16	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
29 - 38	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	140	135	37	18	8	3	11	63	123	24	26	9	15	15	17	22	666

Total Number of Valid Hours: 666

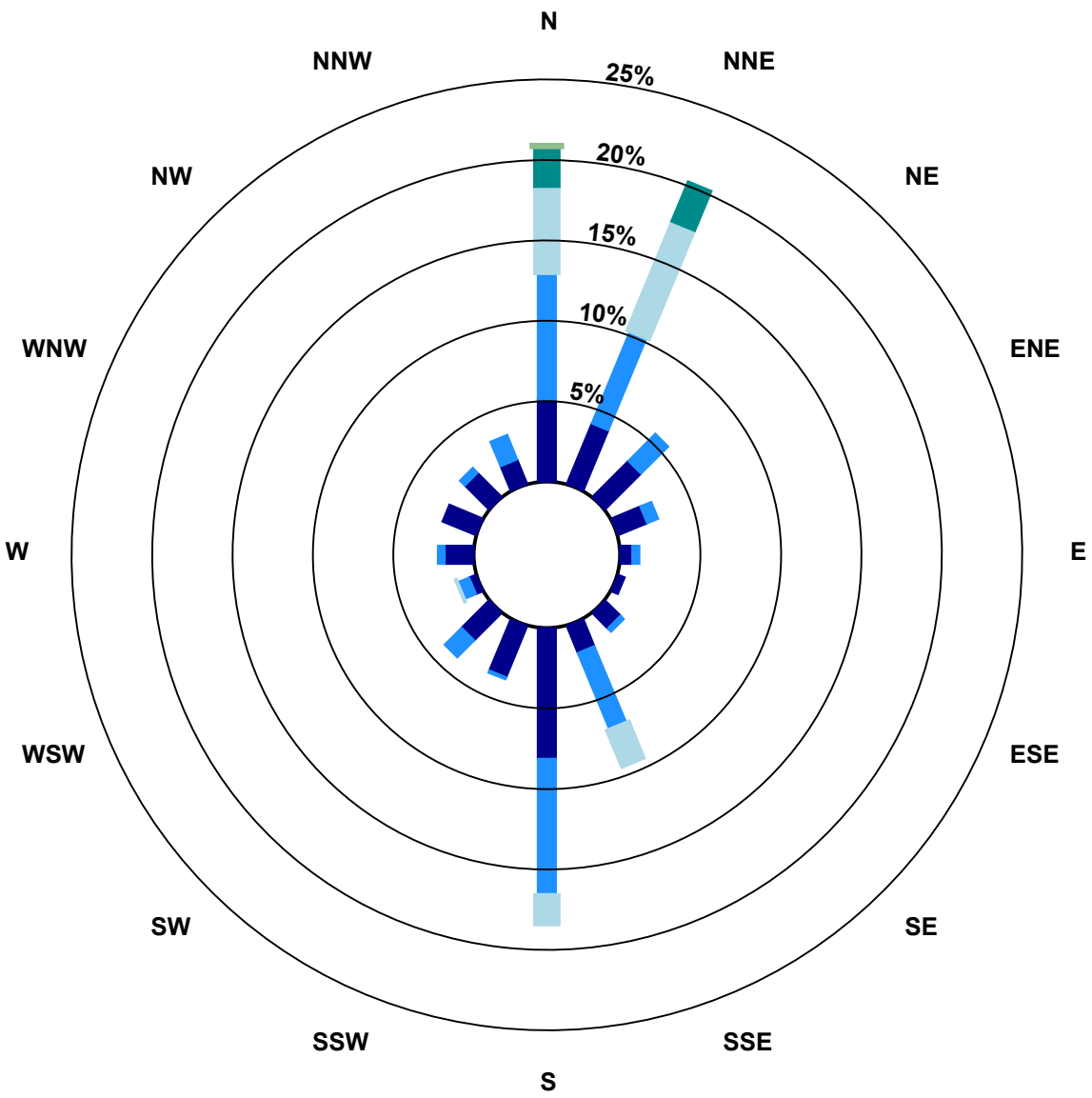
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Fort McKay - Bertha Ganter



Classes (km/h)

- 0 - 5
- 6 - 11
- 12 - 19
- 20 - 28
- 29 - 38
- > 38

Total Number of Valid Hours: 666

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Fort McKay - Bertha Ganter - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 7 km/h on Feb 26 20:00

Minimum Value: 0 km/h on Feb 18 21:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 7

Hours in Service:	672
Hours of Data:	666
Hours of Missing Data:	6
Hours of Calibration:	0
Percent Operational Time:	99.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	1	2	2	1	1	1	1	1	1	1	4	3	3	2	3	3	1	2	3	3	2	2	2	4
2-Feb	3	2	3	2	2	2	2	2	1	2	2	2	1	2	2	2	1	1	1	1	1	2	1	1	3
3-Feb	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	UO	UO	1	1	2	1	2	2
4-Feb	3	4	5	3	2	2	2	2	1	1	1	3	3	2	2	2	6	4	4	3	3	3	3	3	6
5-Feb	3	4	4	3	4	3	5	5	4	4	3	2	2	2	2	2	2	2	1	2	2	1	1	1	5
6-Feb	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	2	1	2	2
7-Feb	1	1	1	3	3	3	3	3	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	4
8-Feb	2	2	2	1	1	1	1	1	1	2	1	3	3	2	2	2	2	1	1	1	1	1	1	1	3
9-Feb	1	1	1	1	2	1	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	1	1	2	3
10-Feb	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	2
11-Feb	1	1	1	2	1	2	2	1	1	1	1	1	2	1	1	2	2	1	1	2	1	2	1	1	2
12-Feb	1	1	1	2	2	2	1	1	1	1	2	2	2	3	2	2	2	2	2	2	2	3	4	4	4
13-Feb	3	3	4	4	5	5	3	3	3	3	3	3	3	3	3	3	2	1	1	2	1	2	2	1	5
14-Feb	1	1	2	1	1	1	2	1	1	1	1	1	1	2	1	1	2	2	1	1	1	2	4	2	4
15-Feb	2	2	3	2	3	2	2	2	3	3	3	3	2	1	2	2	2	1	2	1	1	1	1	1	3
16-Feb	1	1	1	1	2	1	1	1	1	0	1	2	2	2	3	3	3	3	3	2	4	4	3	4	4
17-Feb	5	5	4	4	4	4	5	5	5	5	7	6	7	6	7	6	6	7	7	6	6	6	6	6	7
18-Feb	7	7	6	7	6	6	7	6	6	5	5	5	5	5	4	4	4	3	2	1	0	1	1	1	7
19-Feb	1	1	2	1	1	2	1	2	2	2	2	2	2	3	3	2	2	1	1	1	1	1	1	1	3
20-Feb	1	1	1	2	1	1	1	1	2	1	2	2	2	1	2	2	2	2	3	3	3	3	2	3	3
21-Feb	2	2	2	3	1	1	1	1	1	1	1	2	1	2	4	3	4	3	4	5	4	4	4	3	5
22-Feb	3	2	3	2	2	3	3	2	2	3	2	2	2	2	2	2	2	1	1	1	1	2	UO	UO	3
23-Feb	1	1	1	2	2	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2
24-Feb	1	1	1	2	1	2	1	1	UO	1	2	2	2	2	2	2	2	1	1	1	1	1	1	2	2
25-Feb	1	1	1	1	1	UO	1	1	1	1	3	2	2	2	2	1	2	2	2	3	3	3	3	3	3
26-Feb	2	4	3	4	3	3	3	3	3	3	4	5	6	5	6	6	6	6	6	7	6	5	4	4	7
27-Feb	4	4	4	3	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1	2	1	4
28-Feb	1	1	1	1	2	2	2	1	2	2	3	2	2	3	3	3	3	2	3	2	1	1	1	2	3
	7	7	6	7	6	6	7	6	6	5	7	6	7	6	7	6	6	7	7	7	6	6	6	6	
	Diurnal Maximum																								

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Fort McKay - Bertha Ganter - February 2026

Direction of Maximum Speed: 9 deg on Feb 17 20:00
Direction of Maximum Daily Speed Average: 14.4 deg on Feb 17

Direction of Minimum Speed: 148 deg on Feb 10 20:00

Direction of Minimum Daily Speed Average: 0.7 deg on Feb 14

Monthly Average Direction: 22.8 deg

Hours in Service:	672
Hours of Data:	666
Hours of Missing Data:	6
Percent Operational Time:	99.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	74	106	124	146	160	149	155	151	159	159	161	170	168	170	172	175	168	142	159	165	167	171	170	174	161.4
2-Feb	174	176	176	173	177	168	176	171	161	167	167	164	161	161	168	177	164	24	6	356	349	25	2	17	165.4
3-Feb	9	12	24	37	30	36	46	49	47	40	44	82	19	74	311	52	26	UO	UO	2	26	337	354	175	31.5
4-Feb	174	169	176	179	230	262	200	272	212	178	171	230	256	231	222	234	312	14	14	5	4	5	9	11	333.3
5-Feb	19	18	10	14	11	11	10	14	14	16	10	18	47	63	57	53	55	75	54	36	43	36	11	16	22.2
6-Feb	2	0	342	7	1	353	357	347	358	1	7	13	20	157	184	159	152	134	296	272	274	306	176	178	356.2
7-Feb	1	311	348	352	25	18	23	21	23	25	30	37	27	29	42	29	19	8	6	11	10	2	356	348	17.6
8-Feb	347	347	351	322	336	7	326	315	351	11	338	359	8	10	10	10	11	21	12	60	52	75	12	133	2.1
9-Feb	344	6	22	43	45	21	6	50	25	30	21	2	15	7	5	2	7	2	5	6	19	10	3	3	10.7
10-Feb	354	343	338	341	336	320	314	300	295	235	190	144	146	153	198	187	219	231	194	148	171	186	172	169	236.2
11-Feb	174	177	180	178	184	199	180	188	190	202	195	180	174	169	169	184	178	196	181	171	215	17	14	38	180.4
12-Feb	346	210	198	159	159	172	155	183	172	168	168	163	164	166	175	173	178	170	170	181	179	215	228	232	179.3
13-Feb	218	226	239	246	255	264	272	271	212	228	254	240	216	219	220	234	226	176	214	346	308	330	285	262	243.3
14-Feb	186	202	184	179	171	172	178	224	10	41	63	60	101	143	101	53	1	346	0	321	9	16	354	26	46.3
15-Feb	10	18	22	359	11	20	15	19	28	34	38	43	56	85	72	72	46	25	20	11	11	0	26	325	26.5
16-Feb	343	260	272	266	271	282	314	251	298	60	77	29	7	22	16	13	8	14	11	14	12	8	4	9	5.4
17-Feb	13	15	15	15	24	20	23	22	22	21	20	17	16	13	10	9	8	12	10	9	11	12	13	11	14.4
18-Feb	11	16	14	13	11	12	13	11	13	12	11	18	16	17	20	13	8	357	347	309	256	240	224	184	10.8
19-Feb	186	179	185	191	190	191	183	177	175	162	163	158	160	171	167	174	174	169	173	179	186	183	193	178	172.1
20-Feb	181	179	182	179	179	186	192	180	179	170	155	159	150	120	29	12	12	7	8	12	9	2	4	5	51.8
21-Feb	11	0	13	25	92	172	185	131	269	234	282	52	62	61	10	23	18	4	7	17	20	23	16	13	17.3
22-Feb	14	15	16	8	1	3	11	5	4	4	4	352	0	353	355	355	353	347	354	0	4	356	UO	UO	2.9
23-Feb	355	9	16	190	141	159	157	176	113	173	166	139	136	56	71	43	43	43	307	299	332	298	302	228	119.9
24-Feb	198	185	188	190	186	185	192	205	UO	177	162	159	153	152	159	162	171	172	173	168	183	184	200	351	168.9
25-Feb	359	3	352	291	299	UO	202	180	180	152	158	160	160	171	176	148	358	356	8	15	9	11	14	18	38.8
26-Feb	14	19	18	22	17	12	6	7	15	14	11	11	9	15	9	12	3	356	7	6	1	5	5	14	9.0
27-Feb	14	14	20	19	26	15	21	23	36	50	50	70	84	97	90	56	41	18	4	323	300	290	296	269	29.2
28-Feb	268	212	202	215	198	199	187	191	181	164	161	166	165	170	172	169	171	175	178	189	184	186	191	308	177.2
	10.9	14.5	16.2	11.6	12.7	9.6	16.9	16.4	26.9	47.1	62.4	70.6	77.7	82.0	54.5	45.2	22.6	14.3	10.1	8.4	7.9	8.3	1.6	5.9	
	Diurnal Average																								

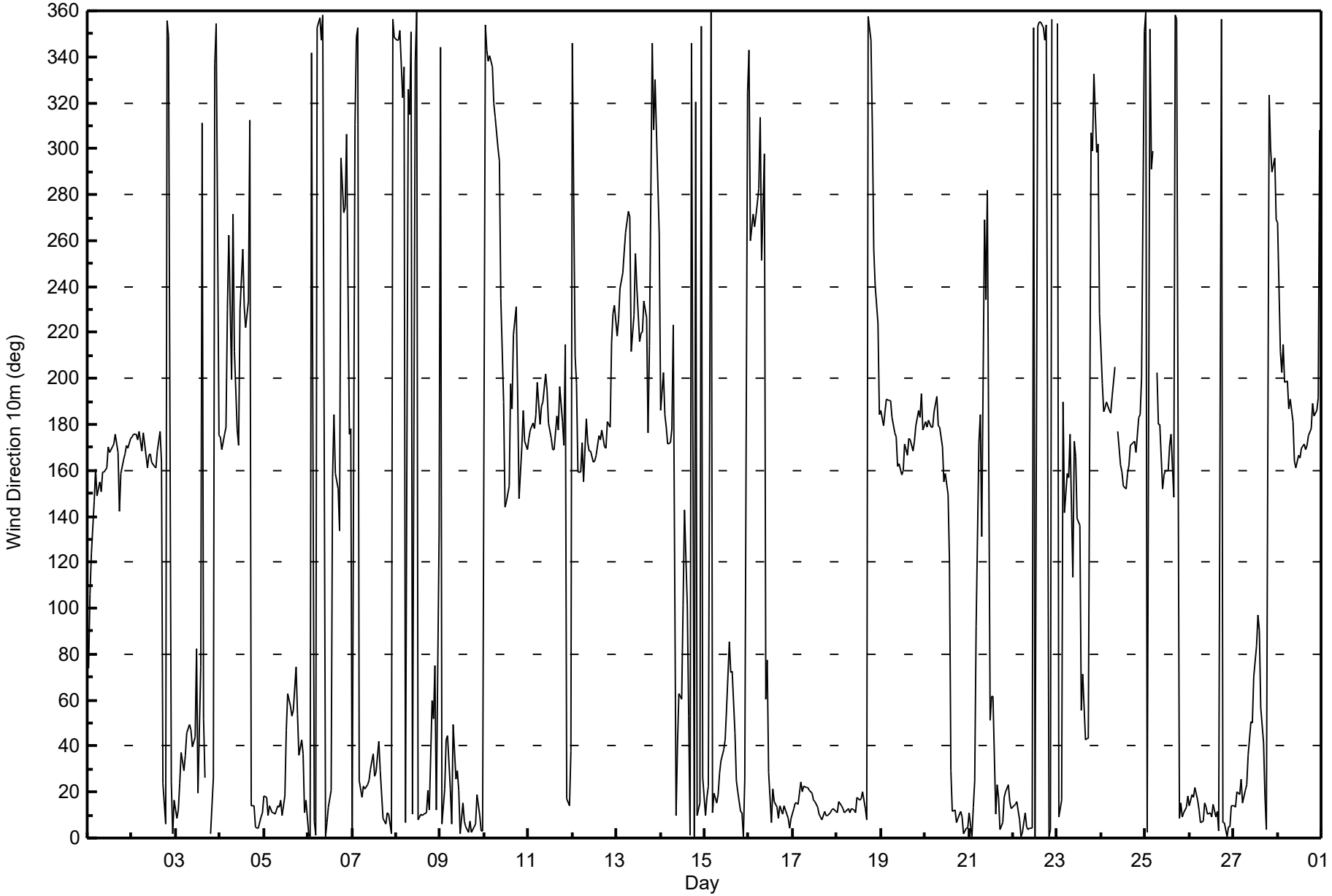
UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Fort McKay - Bertha Ganter - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Fort McKay - Bertha Ganter - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 95 deg on Feb 10 20:00

Minimum Value: 7 deg on Feb 19 02:00

Percentiles: P_1 = 9 P_{10} = 13 Q_1 = 17 Median = 21 Q_3 = 28 P_{90} = 45 P_{99} = 84

Hours in Service:	672
Hours of Data:	666
Hours of Missing Data:	6
Hours of Calibration:	0
Percent Operational Time:	99.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	34	31	30	38	12	14	12	14	13	14	13	15	13	15	15	17	15	14	13	14	13	13	12	14	38
2-Feb	15	14	15	14	14	13	15	14	12	14	12	12	11	11	23	40	38	66	14	17	21	16	24	17	66
3-Feb	20	19	31	23	32	34	27	26	26	21	24	32	54	75	30	47	23	UO	UO	36	28	31	85	21	85
4-Feb	17	13	16	15	45	48	60	74	42	28	24	78	57	50	48	33	38	20	18	19	19	18	16	18	78
5-Feb	17	18	16	16	17	16	18	17	17	18	21	23	33	30	26	29	25	30	29	19	23	21	19	17	33
6-Feb	19	18	16	25	22	21	20	26	22	21	21	35	88	80	23	14	15	25	35	27	25	71	78	26	88
7-Feb	55	46	75	48	19	19	18	19	18	18	18	22	20	24	23	18	22	19	18	17	18	21	22	20	75
8-Feb	20	21	23	16	22	24	26	21	64	26	17	24	22	24	27	24	22	23	22	31	30	28	30	44	64
9-Feb	55	53	27	51	40	34	29	37	21	17	24	26	20	25	24	23	23	23	22	22	19	21	23	23	55
10-Feb	25	20	14	18	19	14	22	27	27	56	41	16	21	30	26	24	47	31	42	95	23	47	22	19	95
11-Feb	13	11	11	27	52	21	15	12	13	20	27	21	17	14	15	26	13	52	55	29	56	19	41	92	92
12-Feb	65	68	15	71	90	54	16	16	21	11	11	11	12	13	13	15	15	11	15	16	15	31	37	38	90
13-Feb	35	31	41	38	39	35	31	42	42	38	49	54	32	31	41	37	43	86	15	85	15	30	34	34	86
14-Feb	15	53	18	12	9	11	46	55	70	56	25	34	48	80	69	31	23	20	26	23	22	21	27	59	80
15-Feb	19	26	22	24	20	18	22	18	19	20	19	23	31	37	46	31	20	17	16	18	18	33	43	26	46
16-Feb	18	42	49	45	35	27	21	28	28	76	47	25	30	29	22	22	23	18	20	18	21	22	24	22	76
17-Feb	20	21	21	19	17	18	18	17	18	18	18	18	19	22	22	23	24	22	23	23	22	22	22	21	24
18-Feb	22	21	22	21	21	21	21	22	22	20	22	21	21	22	21	23	25	25	22	16	12	34	56	19	56
19-Feb	16	7	13	15	13	21	13	14	16	11	11	9	11	13	14	14	13	9	13	8	12	12	14	12	21
20-Feb	10	12	13	15	14	12	13	13	17	22	16	12	16	47	37	22	19	20	18	18	20	23	21	22	47
21-Feb	19	21	20	15	41	33	27	72	27	60	83	38	39	43	21	17	18	19	19	18	18	18	18	19	83
22-Feb	18	19	18	21	21	20	19	21	21	22	24	23	25	23	23	23	23	21	22	24	20	20	UO	UO	25
23-Feb	21	21	42	43	55	23	20	22	44	21	25	11	28	34	26	23	15	28	17	18	25	41	21	58	58
24-Feb	18	23	15	25	12	12	13	72	UO	16	12	11	9	10	10	11	12	13	25	36	18	15	43	43	72
25-Feb	41	24	30	32	56	UO	36	59	21	15	14	10	12	15	18	21	38	23	22	19	22	20	19	18	59
26-Feb	20	19	19	18	17	18	19	20	16	17	19	20	19	19	20	19	21	21	20	19	21	20	21	18	21
27-Feb	20	19	19	19	18	21	23	18	18	28	28	36	31	24	28	29	23	49	22	23	22	41	18	24	49
28-Feb	29	18	15	19	15	15	9	12	16	13	10	12	12	13	13	12	12	12	12	12	15	9	31	28	31
	65	68	75	71	90	54	60	74	70	76	83	78	88	80	69	47	47	86	55	95	56	71	85	92	
	Diurnal Maximum																								

UO - Unstable Operation

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS02
MILDRED LAKE
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - MILDRED LAKE (AMS02)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	636	36	36	100	34.5	0	6.2	0
H2S (ppb) Average	638	34	34	100	7.7	0	1.4	0
THC (ppm) Average	617	40	55	97.77	5	-	3	-
NMHC(ppm) Average	617	40	55	97.77	0.86	-	0.29	-
CH4(ppm) Average	617	40	55	97.77	4.3	-	2.7	-
Temperature (C) Average	672	0	0	100	9.6	-	2	-
Relative Humidity (%) Average	672	0	0	100	94.3	-	86.1	-
Wind Speed 10 m (km/h) Average	670	0	2	99.7	32	-	24	-
Wind Direction 10 m (deg) Average	670	0	2	99.7	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - MILDRED LAKE (AMS02)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	636	0.78	2.5	-	0	0	0	0.2	0.6	1.1	34.5
H2S (ppb) Average	638	0.38	0.7	-	0	0.1	0.1	0.2	0.4	0.8	7.7
THC (ppm) Average	617	2.26	0.4	-	2	2	2.1	2.1	2.3	2.7	5
NMHC(ppm) Average	617	0.043	0.12	-	0	0	0	0	0	0.2	0.86
CH4(ppm) Average	617	2.22	0.3	-	2	2	2.1	2.1	2.2	2.5	4.3
Temperature 2 m (C) Average	672	-15.17	9.8	-	-36.8	-28.1	-22.5	-15	-8.6	-1.4	9.6
Relative Humidity (%) Average	672	75.35	10.4	-	39	61.8	68.8	76.9	83.2	87.2	94.3
Wind Speed 10 m (km/h) Average	670	10.4	6	-	0	4	6	9	13	18	32
Wind Direction 10 m (deg) Average	670	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - MILDRED LAKE (AMS02)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
THC/NMHC/CH4	26 Feb 2026 20:00	27 Feb 2026 10:00	15	Maintenance - analyzer replaced
Wind Speed, Wind Direction	25 Feb 2026 08:00	25 Feb 2026 08:00	1	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	28 Feb 2026 00:00	28 Feb 2026 00:00	1	Flat line in sensor output signal - Sensor frozen

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Mildred Lake - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 34.5 ppb on Feb 4 12:00

Maximum Daily Average: 6.2 ppb on Feb 4

Minimum Value: 0.0 ppb on Feb 2 03:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 1.7 ppb at hour 12

Minimum Diurnal Average: 0.2 ppb at hour 3

Monthly Average: 0.78 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.2 Q_3 = 0.6 P_{90} = 1.1 P_{99} = 12.5

Hours in Service:	672
Hours of Data:	636
Hours of Missing Data:	36
Hours of Calibration:	36
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	0.0	0.1	Z	0.1	0.8	2.1	3.4	1.1	0.7	0.7	0.5	0.5	0.7	0.7	0.3	0.8	4.2	0.4	0.1	0.1	0.1	0.1	0.1	0.8	4.2
2-Feb	0.0	0.0	0.0	0.3	Z	0.7	0.4	0.1	0.2	0.3	0.4	0.3	0.1	0.1	0.1	0.4	0.3	0.4	0.3	0.3	0.4	0.6	0.2	0.2	0.3	0.7
3-Feb	0.1	0.0	0.0	0.0	0.1	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.8	0.7	0.5	0.3	0.3	0.2	0.3	0.5	0.4	0.5	0.3	1.1
4-Feb	Z	0.5	0.4	0.4	0.3	0.3	0.4	14.9	5.4	1.5	7.2	34.5	26.0	23.1	6.7	12.8	6.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	6.2	34.5
5-Feb	0.0	Z	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.3	0.0	0.3
6-Feb	0.1	0.1	Z	0.0	0.1	0.1	0.0	0.1	0.0	0.3	1.6	1.6	2.9	0.2	0.0	0.1	0.0	0.3	0.2	0.1	0.1	0.0	0.0	0.1	0.4	2.9
7-Feb	0.2	0.0	0.0	Z	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
8-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.1	0.2	0.3	0.3	0.5	0.5	0.2	0.0	0.3	0.2	0.2	0.5
9-Feb	0.1	0.1	0.3	0.1	0.1	Z	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.3	0.2	0.1	0.3
10-Feb	Z	0.0	0.0	0.1	0.0	0.1	0.2	0.0	0.0	0.5	0.6	0.6	0.6	0.7	0.7	0.4	0.4	0.5	0.4	0.5	0.5	0.6	0.7	0.7	0.4	0.7
11-Feb	0.7	Z	0.8	0.7	0.4	1.5	1.8	1.4	0.7	0.7	0.5	0.6	1.0	1.0	0.9	0.9	0.5	0.5	0.3	0.5	0.5	0.6	0.7	0.6	0.8	1.8
12-Feb	0.4	0.5	Z	2.8	1.2	8.9	13.6	14.3	1.6	0.9	0.9	1.3	0.8	0.6	0.7	0.5	0.4	0.4	0.4	0.4	0.6	0.5	0.1	0.0	2.3	14.3
13-Feb	0.3	0.2	0.2	Z	10.2	11.9	3.5	2.9	0.8	0.7	5.4	1.3	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.2	0.1	0.2	1.8	11.9
14-Feb	0.6	0.2	0.0	0.1	Z	0.1	0.1	0.1	0.2	0.1	0.2	0.3	0.7	3.7	5.4	9.3	9.6	3.4	1.9	1.6	1.0	1.0	0.5	0.2	1.8	9.6
15-Feb	0.3	0.2	0.2	0.3	0.3	Z	0.2	0.1	0.0	0.1	0.0	0.2	0.1	0.3	0.3	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
16-Feb	Z	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.2	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
17-Feb	0.0	Z	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.0	0.3
19-Feb	0.2	0.2	0.2	Z	0.2	0.4	0.7	1.2	1.0	0.9	0.5	0.6	0.6	0.5	0.4	0.8	0.5	0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.4	1.2
20-Feb	0.3	0.2	0.1	0.1	Z	0.4	0.5	0.6	0.4	0.6	0.4	0.4	0.6	6.5	11.8	8.9	3.6	1.7	0.4	0.8	1.1	1.2	1.5	1.7	1.9	11.8
21-Feb	1.4	1.0	1.1	1.0	0.9	Z	0.9	0.7	0.7	0.7	0.5	0.6	0.4	0.3	0.3	0.2	0.2	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.5	1.4
22-Feb	Z	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.1	0.3	0.5	0.6	0.2	0.6
23-Feb	0.3	Z	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.5	0.6	0.4	0.4	0.7	0.6	0.9	1.7	0.6	0.4	0.6	0.7	0.6	0.7	0.5	1.7
24-Feb	0.7	1.4	Z	1.1	0.8	1.1	0.6	0.6	0.3	0.3	0.2	0.6	0.5	1.2	1.0	0.9	1.0	0.3	0.3	0.6	0.4	0.5	0.7	0.3	0.7	1.4
25-Feb	0.9	0.2	0.0	Z	0.1	1.0	0.8	0.0	0.2	0.2	0.1	0.3	0.4	1.2	1.0	1.1	1.7	3.1	4.6	3.3	1.7	0.8	0.6	0.7	1.0	4.6
26-Feb	0.6	0.7	1.4	0.6	Z	0.5	0.5	0.5	0.3	0.3	0.2	C	C	C	C	C	C	C	C	0.0	0.0	0.0	0.0	0.0	--	1.4
27-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.5	0.2	0.5
28-Feb	Z	0.4	0.3	0.3	0.3	0.4	0.5	0.9	1.2	1.1	0.9	1.4	1.0	0.6	0.5	0.5	0.6	0.7	0.5	0.4	0.4	0.4	0.3	0.2	0.6	1.4
	0.3	0.2	0.2	0.4	0.7	1.3	1.0	1.5	0.5	0.4	0.8	1.7	1.4	1.6	1.2	1.5	1.1	0.7	0.5	0.4	0.3	0.3	0.3	0.3	Diurnal Average	
	1.4	1.4	1.4	2.8	10.2	11.9	13.6	14.9	5.4	1.5	7.2	34.5	26.0	23.1	11.8	12.8	9.6	4.2	4.6	3.3	1.7	1.2	1.5	1.7	Diurnal Maximum	

Z - zerospan C - Calibration

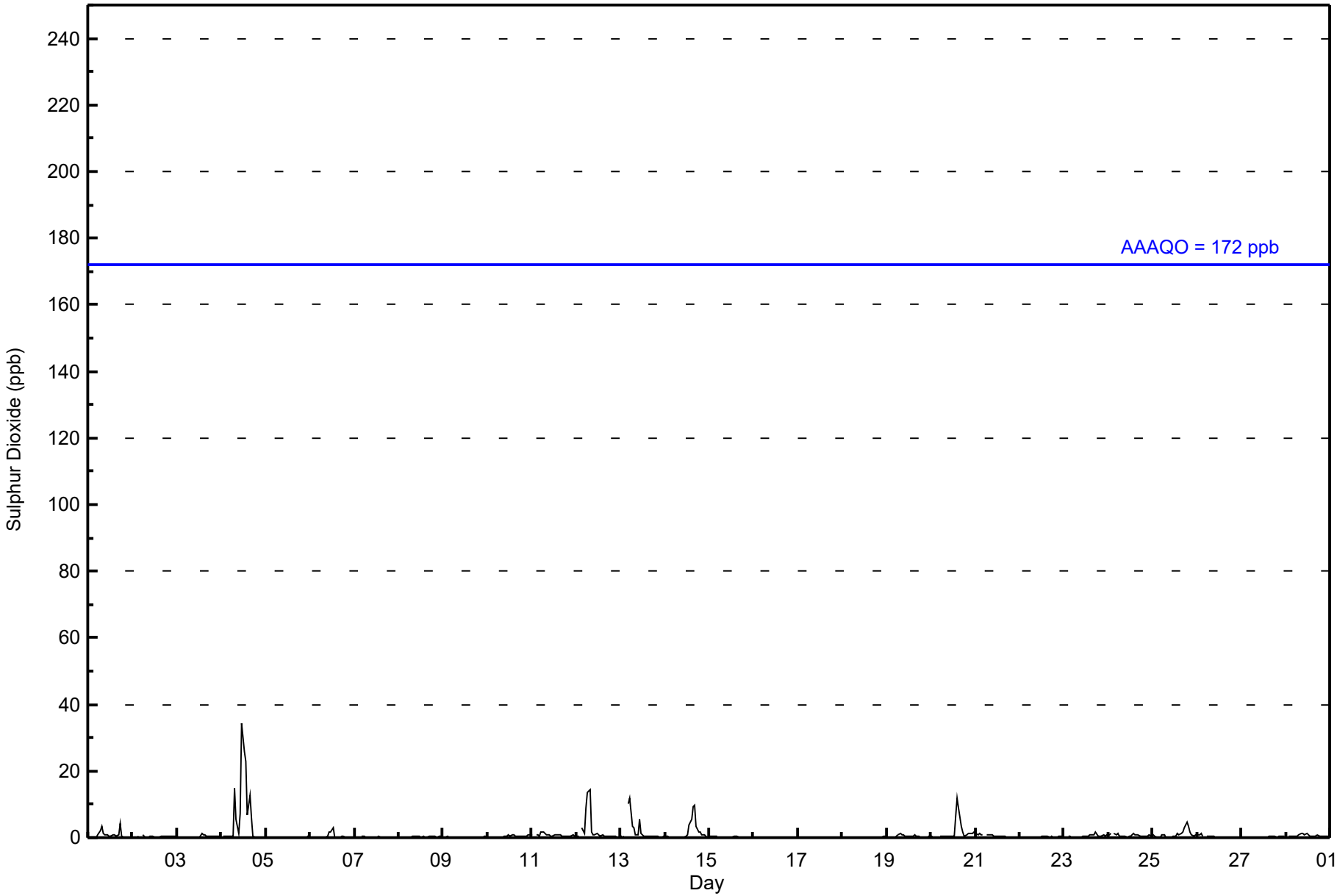
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Mildred Lake - February 2026



Sulphur Dioxide (SO_2) - ppb
Mildred Lake - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	627	98.58	98.58
11 - 20	6	0.94	99.53
21 - 60	3	0.47	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 636

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Mildred Lake - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	215	62	9	6	8	22	78	77	43	24	11	10	5	0	16	39	625
11 - 20	0	0	0	0	0	0	0	0	0	0	2	1	2	0	1	0	6
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	215	62	9	6	8	22	78	77	43	24	13	11	10	0	17	39	634

Total Number of Valid Hours: 634

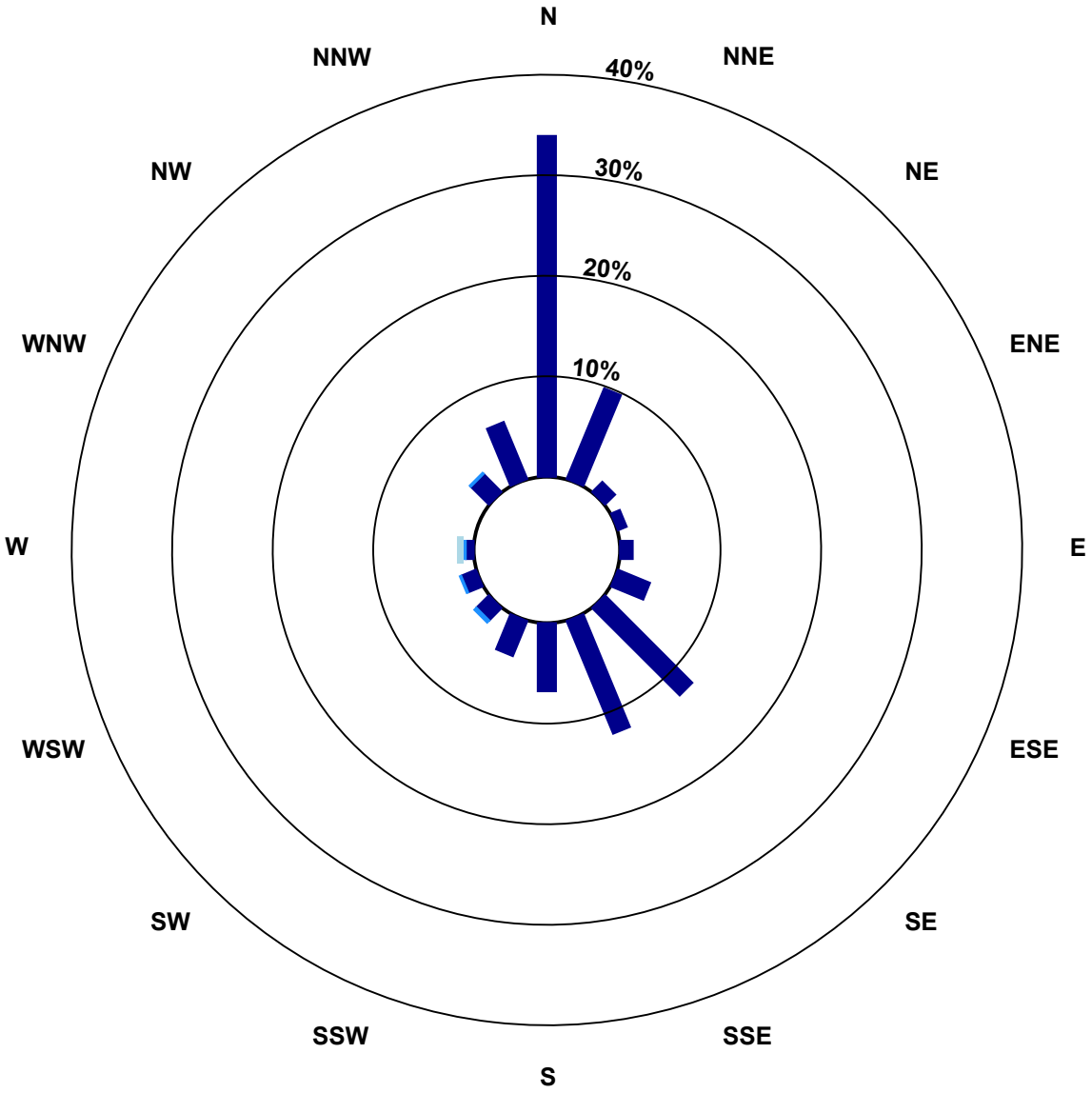
Total Number of Hours: 672

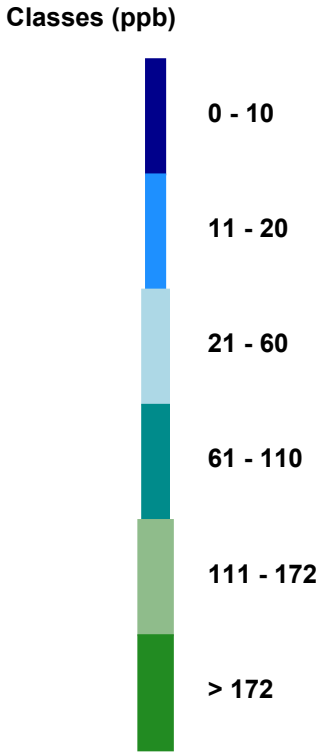
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Mildred Lake





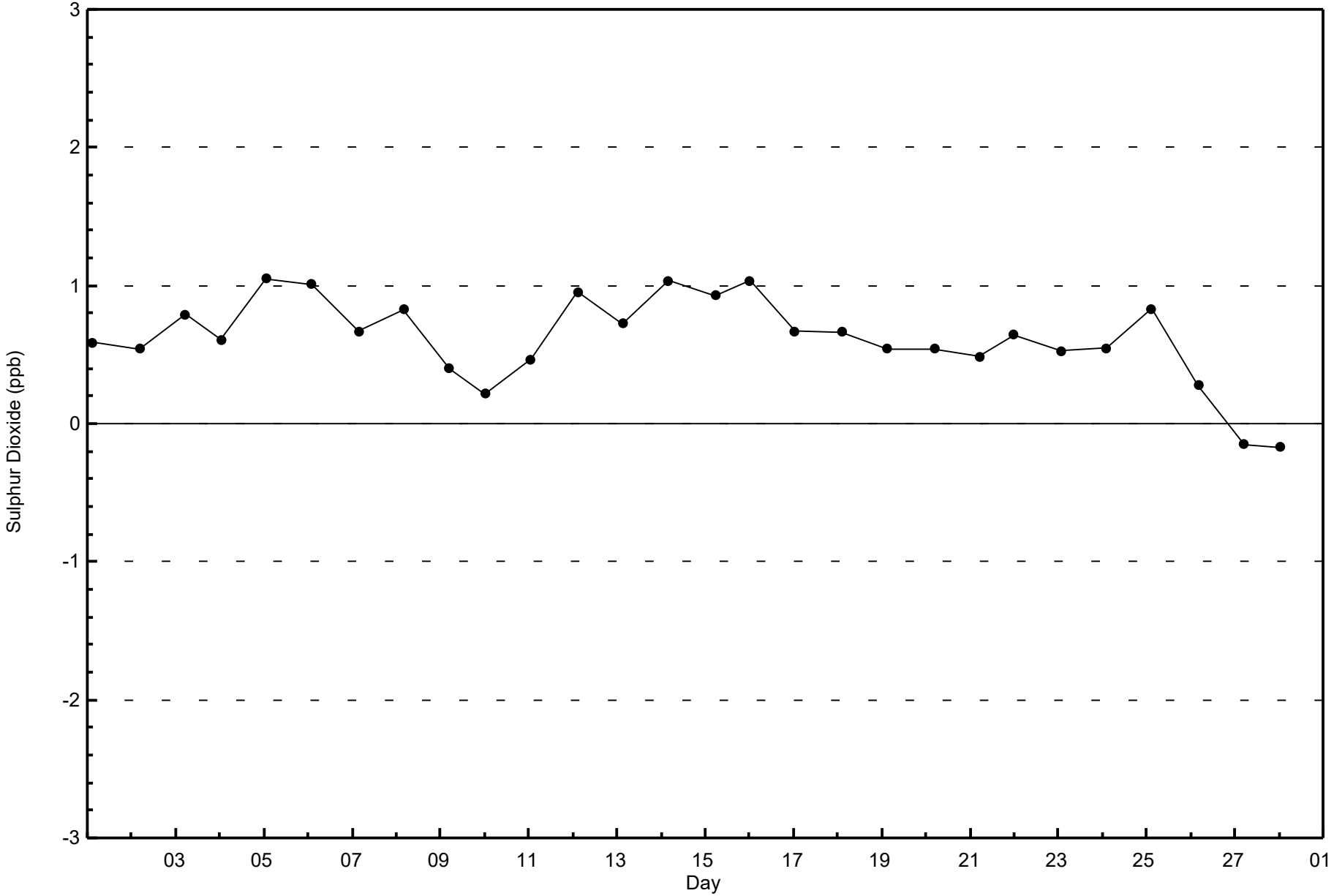
Total Number of Valid Hours: 634

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Mildred Lake - February 2026

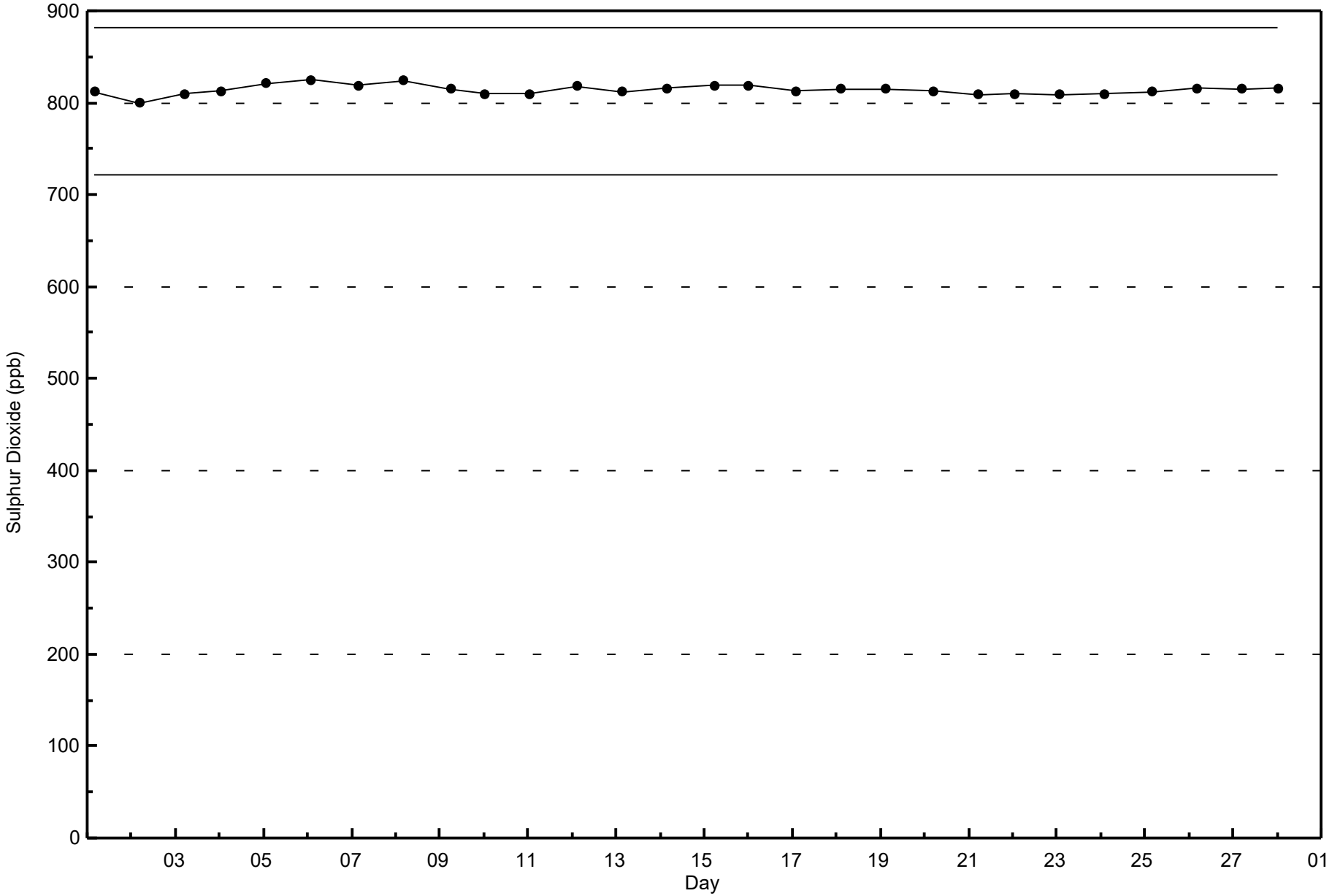


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Mildred Lake - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Mildred Lake - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 7.7 ppb on Feb 14 01:00

Maximum Daily Average: 1.4 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 15 11:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 0.9 ppb at hour 1

Minimum Diurnal Average: 0.3 ppb at hour 21

Monthly Average: 0.38 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.1 Median = 0.2 Q_3 = 0.4 P_{90} = 0.8 P_{99} = 3.4

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	0.1	0.1	0.1	Z	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
2-Feb	0.0	0.0	0.0	0.1	0.2	Z	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.2	1.0	0.3	0.2	0.2	1.0
3-Feb	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.5
4-Feb	0.1	Z	0.1	0.1	0.1	0.2	1.4	2.1	0.9	0.1	C	C	C	C	C	C	0.9	1.0	0.1	0.1	0.1	0.1	0.1	0.1	--	2.1
5-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6-Feb	0.1	0.1	0.2	Z	0.7	0.6	0.4	0.5	0.7	0.7	0.7	0.3	0.2	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.3	0.7
7-Feb	0.3	0.4	0.4	0.4	Z	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
8-Feb	0.3	0.3	0.2	0.3	0.5	Z	0.5	1.0	0.8	0.8	0.7	0.5	0.4	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	1.0
9-Feb	Z	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
10-Feb	0.1	Z	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.9	2.1	1.1	1.1	0.9	0.4	0.3	0.5	0.4	0.3	0.4	0.7	2.0	2.3	0.7	2.3
11-Feb	3.4	1.8	Z	1.9	1.1	2.3	5.2	3.3	0.6	0.6	0.5	0.3	0.5	0.6	0.4	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.7	0.6	1.1	5.2
12-Feb	0.4	0.3	0.3	Z	0.5	1.3	5.3	4.9	0.5	0.1	0.3	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.7	5.3
13-Feb	0.1	0.1	0.1	0.1	Z	2.5	2.7	1.0	0.2	0.1	1.4	1.7	0.1	0.3	0.3	0.6	0.2	0.2	0.2	0.2	0.6	1.1	0.8	2.2	0.7	2.7
14-Feb	7.7	2.0	0.9	0.9	0.5	Z	0.4	0.4	0.5	0.6	1.3	0.8	0.6	0.8	0.9	2.2	2.3	1.6	2.4	2.1	1.5	1.3	0.9	0.5	1.4	7.7
15-Feb	Z	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
16-Feb	0.2	Z	0.5	0.4	0.3	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5
17-Feb	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	0.0	0.0	Z	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.5	0.1	0.5
19-Feb	0.3	0.2	0.2	0.3	Z	0.5	0.3	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.5
20-Feb	0.3	0.3	0.4	0.4	0.3	Z	0.9	0.8	0.8	0.5	0.5	0.4	0.3	0.9	1.4	1.4	0.8	1.0	0.3	0.2	0.1	0.1	0.2	0.2	0.5	1.4
21-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
22-Feb	0.1	Z	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.2	0.4
23-Feb	0.1	0.1	Z	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.5	0.7	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.8	1.8	0.3	1.8
24-Feb	2.4	4.6	4.1	Z	2.1	1.7	1.0	0.8	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.8	0.4	0.3	0.3	0.3	0.9	4.6
25-Feb	0.4	0.2	0.2	0.3	Z	0.1	0.2	0.4	0.5	0.6	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.5	1.1	0.8	0.3	0.2	0.1	0.1	0.3	1.1
26-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1
27-Feb	Z	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.2	0.4	0.3	0.3	0.6	0.1	0.6
28-Feb	3.2	Z	1.0	1.0	0.7	0.9	0.4	0.4	0.4	0.5	0.3	0.4	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.1	0.5	3.2
	0.9	0.5	0.4	0.3	0.4	0.5	0.8	0.7	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	Diurnal Average	
	7.7	4.6	4.1	1.9	2.1	2.5	5.3	4.9	0.9	0.8	1.4	2.1	1.1	1.1	1.4	2.2	2.3	1.6	2.4	2.1	1.5	1.3	2.0	2.3	Diurnal Maximum	

Z - zerospan C - Calibration

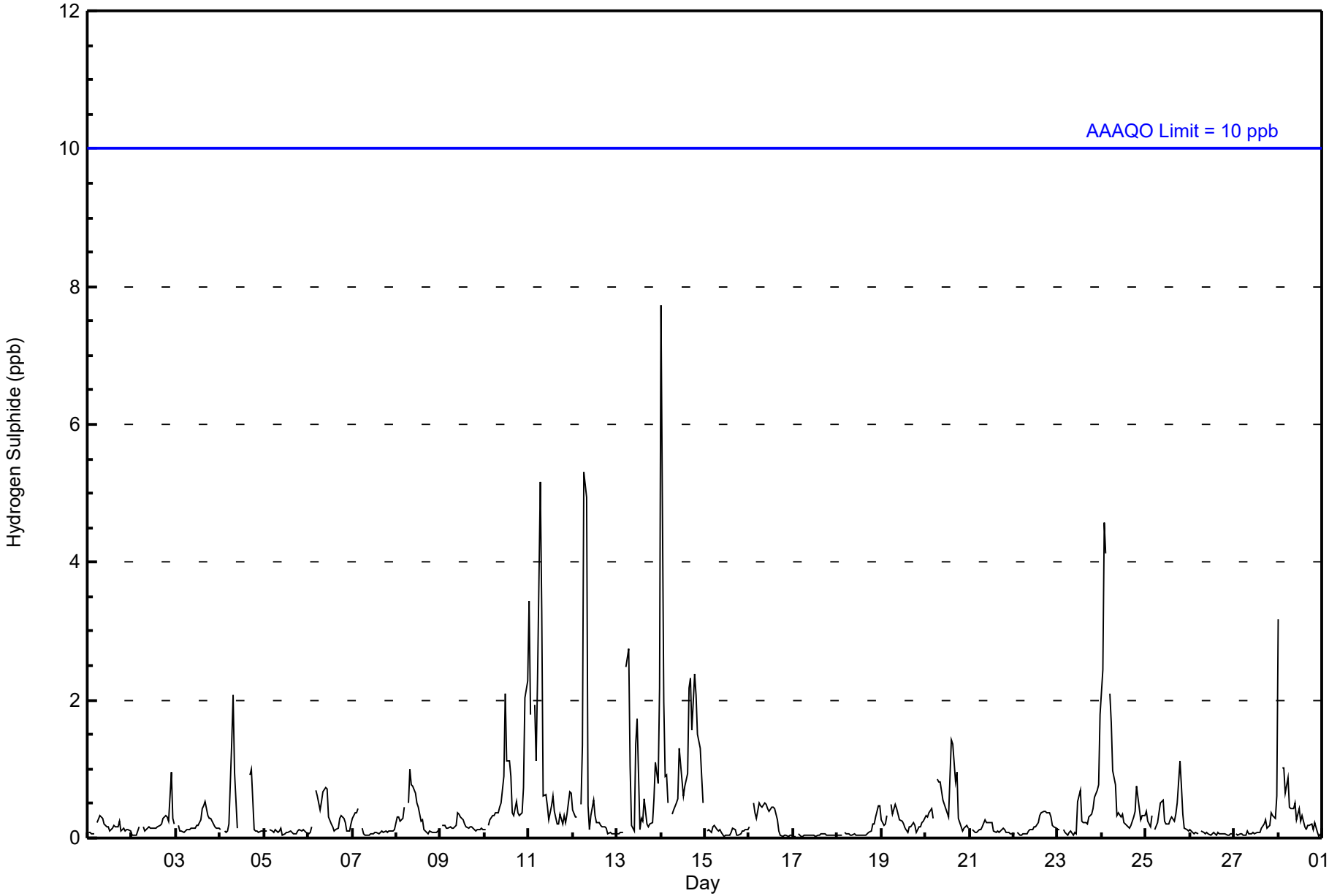
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Mildred Lake - February 2026



Hydrogen Sulphide (H_2S) - ppb

Mildred Lake - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	628	98.43	98.43
3 - 4	5	0.78	99.22
5 - 7	4	0.63	99.84
8 - 11	1	0.16	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Mildred Lake - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	223	63	9	6	9	21	76	77	39	23	13	8	4	0	17	38	626
3 - 4	0	0	0	0	0	0	1	1	1	0	1	0	1	0	0	0	5
5 - 7	0	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	4
8 - 11	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	223	63	9	6	9	22	77	78	42	23	15	9	5	0	17	38	636

Total Number of Valid Hours: 636

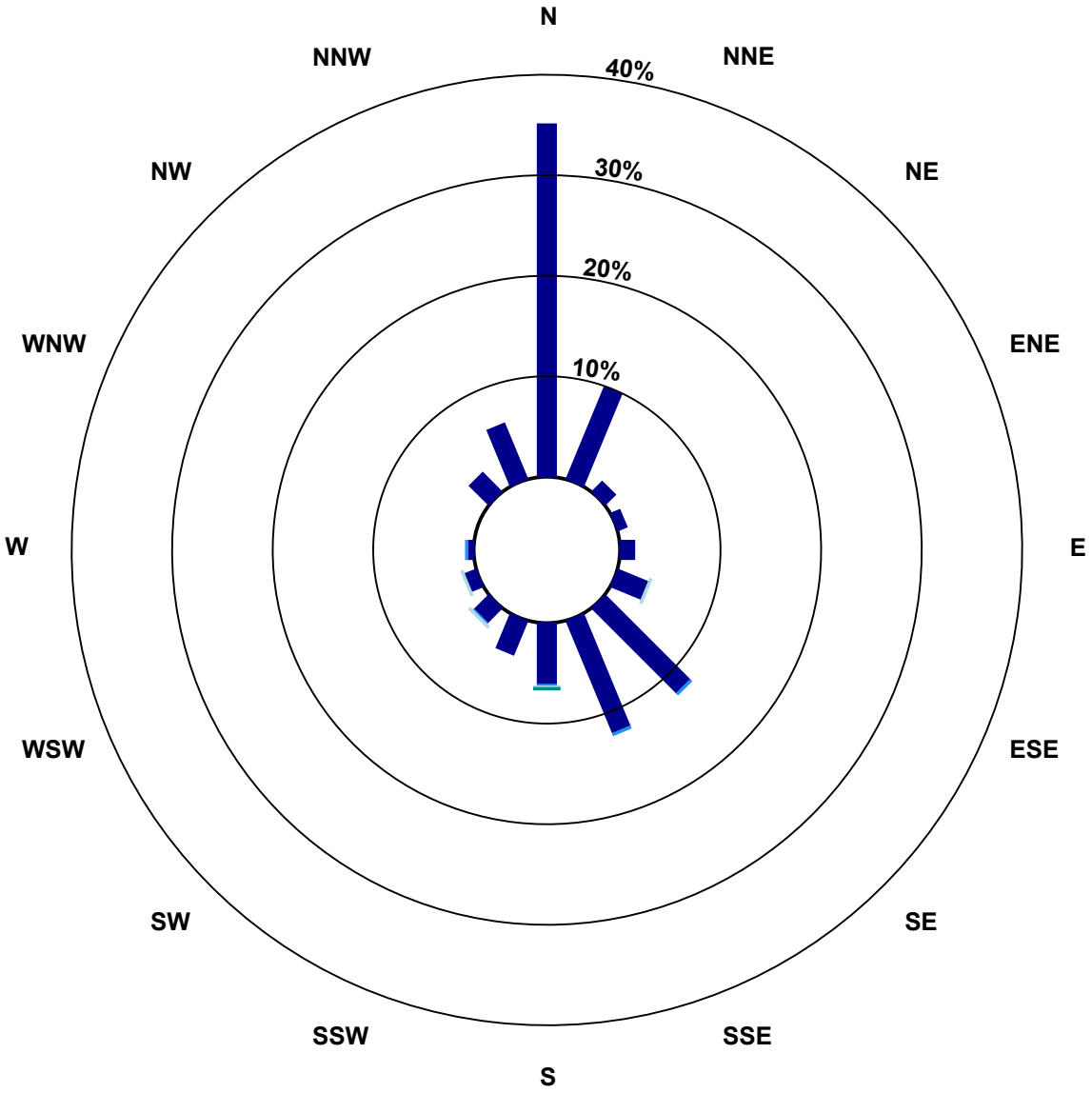
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Mildred Lake



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

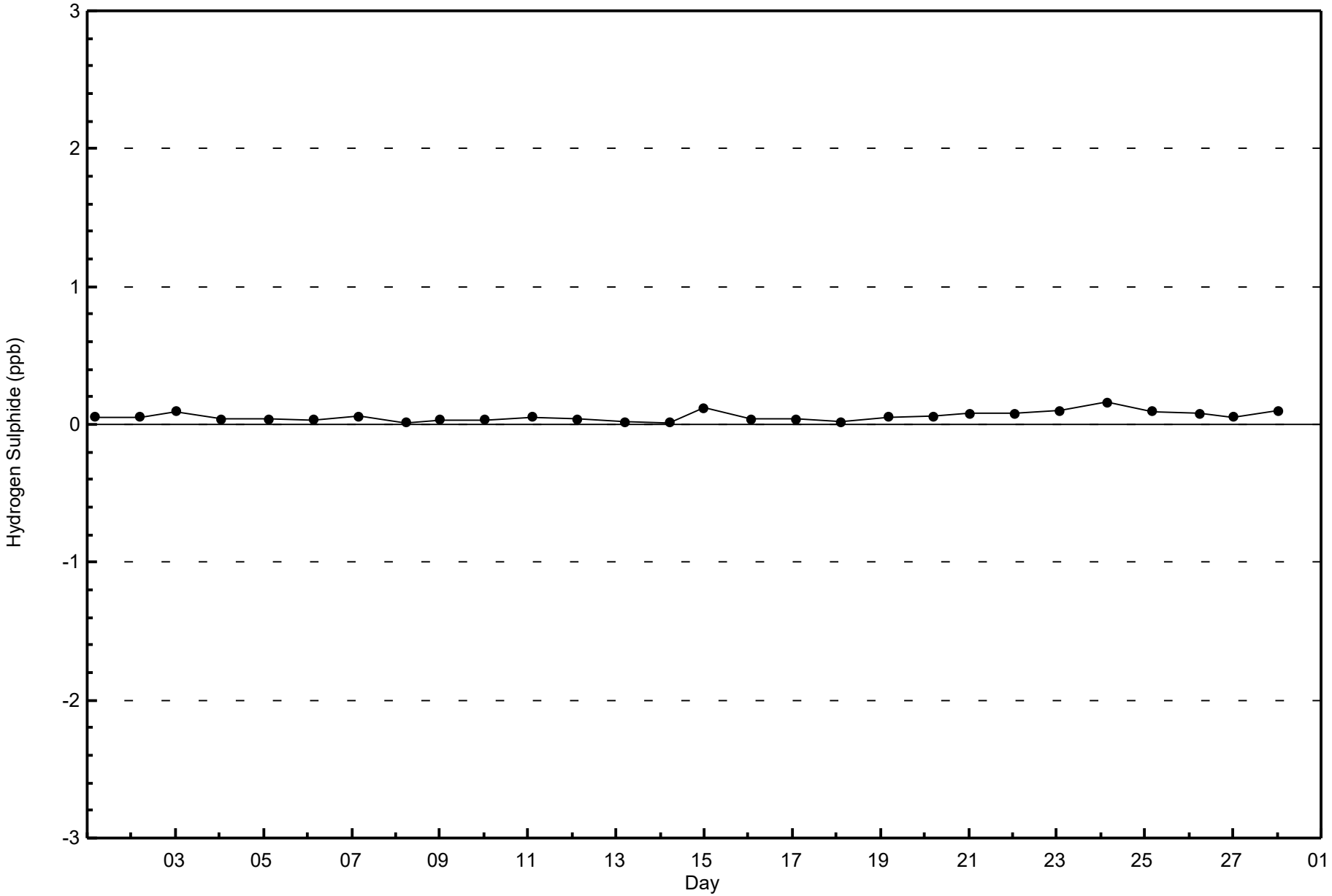
Total Number of Valid Hours: 636

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Mildred Lake - February 2026

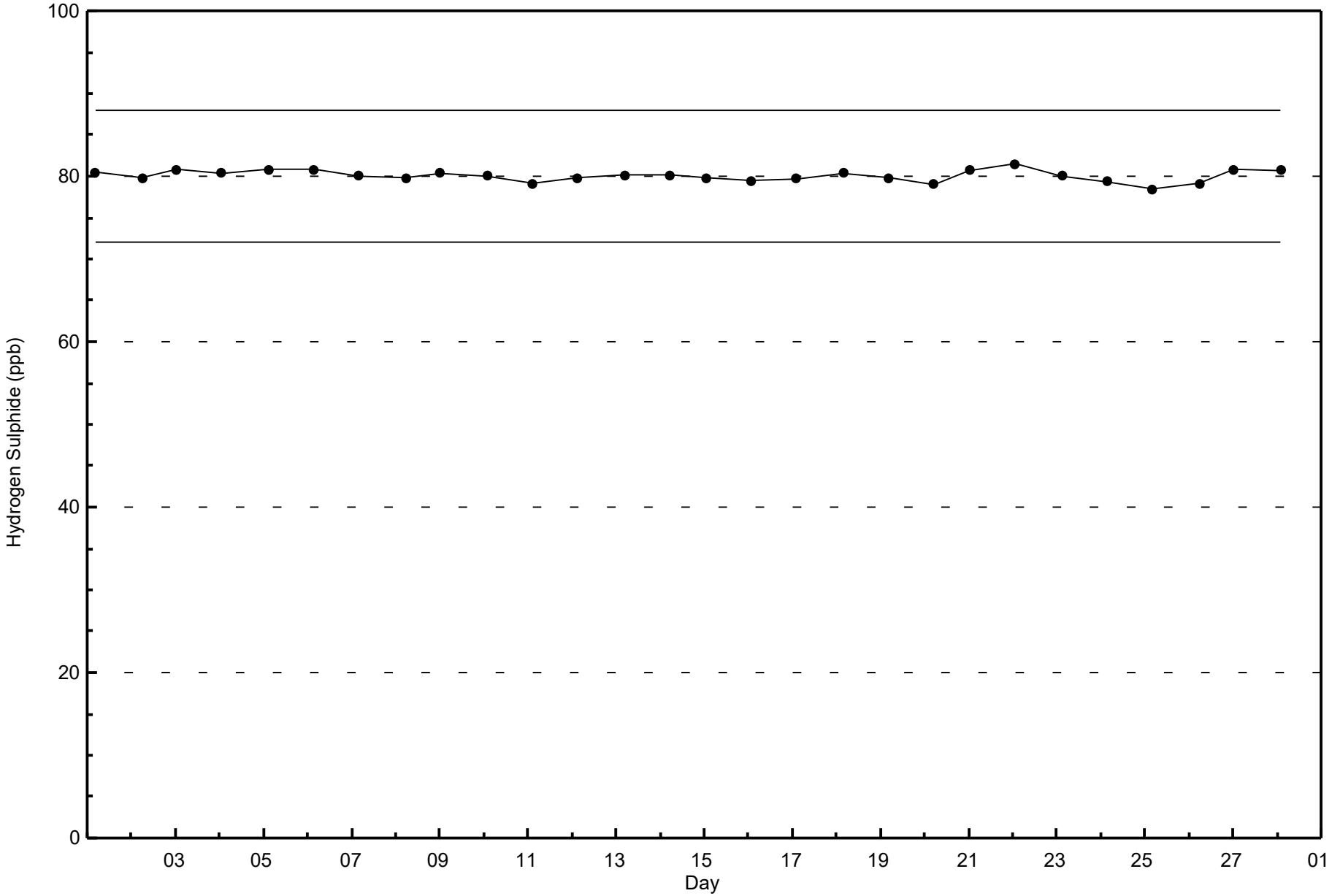


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Mildred Lake - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Mildred Lake - February 2026

Maximum Value: 5.0 ppm on Feb 14 22:00

Maximum Daily Average: 3.0 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 12 20:00

Minimum Daily Average: 2.0 ppm on Feb 17

Maximum Diurnal Average: 2.4 ppm at hour 1

Minimum Diurnal Average: 2.1 ppm at hour 16

Monthly Average: 2.26 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.1 Median = 2.1 Q_3 = 2.3 P_{90} = 2.7 P_{99} = 4.1

Hours in Service:	672
Hours of Data:	617
Hours of Missing Data:	55
Hours of Calibration:	40
Percent Operational Time:	97.8

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.0	2.0	2.0	Z	2.0	2.1	2.2	2.1	2.3	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
2-Feb	2.2	2.2	2.2	2.1	Z	2.1	2.1	2.4	2.5	2.1	2.1	2.1	2.1	2.0	2.2	2.2	2.5	2.4	2.2	2.1	2.2	2.8	2.3	2.2	2.2	2.8
3-Feb	2.1	2.1	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.5	2.6	2.1	2.2	2.4	2.2	2.1	2.2	2.1	2.1	2.6
4-Feb	Z	2.1	2.3	2.2	2.1	2.6	2.6	3.0	2.3	2.0	2.1	2.6	2.1	2.1	2.1	2.3	2.2	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.2	3.0
5-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.1
6-Feb	2.1	2.1	Z	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.3	2.2	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.2	2.2	2.5	2.5	2.3	2.2	2.5
7-Feb	2.2	2.3	2.3	Z	2.6	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6
8-Feb	2.2	2.2	2.3	2.4	Z	2.5	2.7	3.2	3.2	3.5	3.3	2.6	2.2	2.1	2.2	2.1	2.1	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.4	3.5
9-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
10-Feb	Z	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.3	2.6	3.5	3.1	2.7	2.3	2.2	2.2	2.8	3.2	2.4	2.4	2.4	2.6	3.5	2.9	2.6	3.5
11-Feb	2.9	Z	2.7	3.5	3.0	2.5	2.6	3.4	3.4	2.6	2.8	2.7	2.3	2.4	3.0	2.0	2.0	2.0	2.1	2.1	2.3	3.0	2.6	3.1	2.7	3.5
12-Feb	4.0	2.5	Z	2.3	2.0	2.7	2.7	2.4	2.0	2.0	2.2	2.1	2.5	2.6	2.2	2.0	2.0	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.3	4.0
13-Feb	2.0	2.0	2.0	Z	2.2	2.3	2.1	2.1	2.0	2.0	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.9	2.8	4.2	2.2	4.2
14-Feb	3.6	2.5	2.5	4.2	Z	2.1	2.1	2.0	2.2	2.1	3.2	2.8	2.6	2.6	2.2	2.4	2.7	3.1	4.2	4.1	4.3	5.0	3.4	2.7	3.0	5.0
15-Feb	2.4	2.1	2.1	2.0	2.1	Z	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4
16-Feb	Z	2.2	2.3	2.2	2.2	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.4	2.7	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.7
17-Feb	2.1	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
18-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.2	2.2	2.0	2.3
19-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.3	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.1	2.2	2.1	2.2	2.1	2.1	2.2	2.1	2.1	2.3
20-Feb	2.3	2.5	2.1	2.5	Z	2.1	2.3	2.1	2.2	2.1	2.4	2.4	2.1	2.1	2.1	2.2	2.6	3.1	2.3	2.2	2.1	2.2	2.2	2.1	2.3	3.1
21-Feb	2.1	2.1	2.1	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.2
22-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.4	2.5	2.5	2.5	2.3	2.2	2.2	2.2	2.2	2.0	2.2	2.5
23-Feb	2.1	Z	2.1	2.1	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.3	2.7	2.3	2.2	2.2	2.2	2.9	2.6	2.8	2.8	2.9	2.9	4.1	2.4	4.1
24-Feb	3.9	4.5	Z	4.0	3.5	3.3	2.7	2.4	2.2	2.3	2.6	2.3	2.3	2.1	2.2	2.2	2.2	2.3	2.6	3.1	2.6	2.8	2.6	2.9	2.8	4.5
25-Feb	2.3	2.3	2.2	Z	2.1	2.2	2.3	2.4	2.4	2.4	2.8	2.4	2.2	2.1	2.2	2.2	2.2	2.2	3.2	2.9	2.3	2.1	2.1	2.1	2.3	3.2
26-Feb	2.1	2.0	2.1	2.1	Z	2.1	2.2	2.2	2.1	2.1	2.1	C	C	C	C	C	C	C	C	M	M	M	M	M	--	2.2
27-Feb	M	M	M	M	M	M	M	M	M	M	C	C	C	C	C	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	--	2.1
28-Feb	Z	2.5	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.3	2.3	2.1	2.4	2.4	2.3	2.1	2.2	2.2	2.5
	2.4	2.3	2.2	2.4	2.2	2.3	2.2	2.3	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.1	2.2	2.3	2.3	2.3	2.3	2.4	2.3	2.4	Diurnal Average	
	4.0	4.5	2.7	4.2	3.5	3.3	2.7	3.4	3.4	3.5	3.5	3.1	2.7	2.7	3.0	2.5	2.8	3.2	4.2	4.1	4.3	5.0	3.5	4.2	Diurnal Maximum	

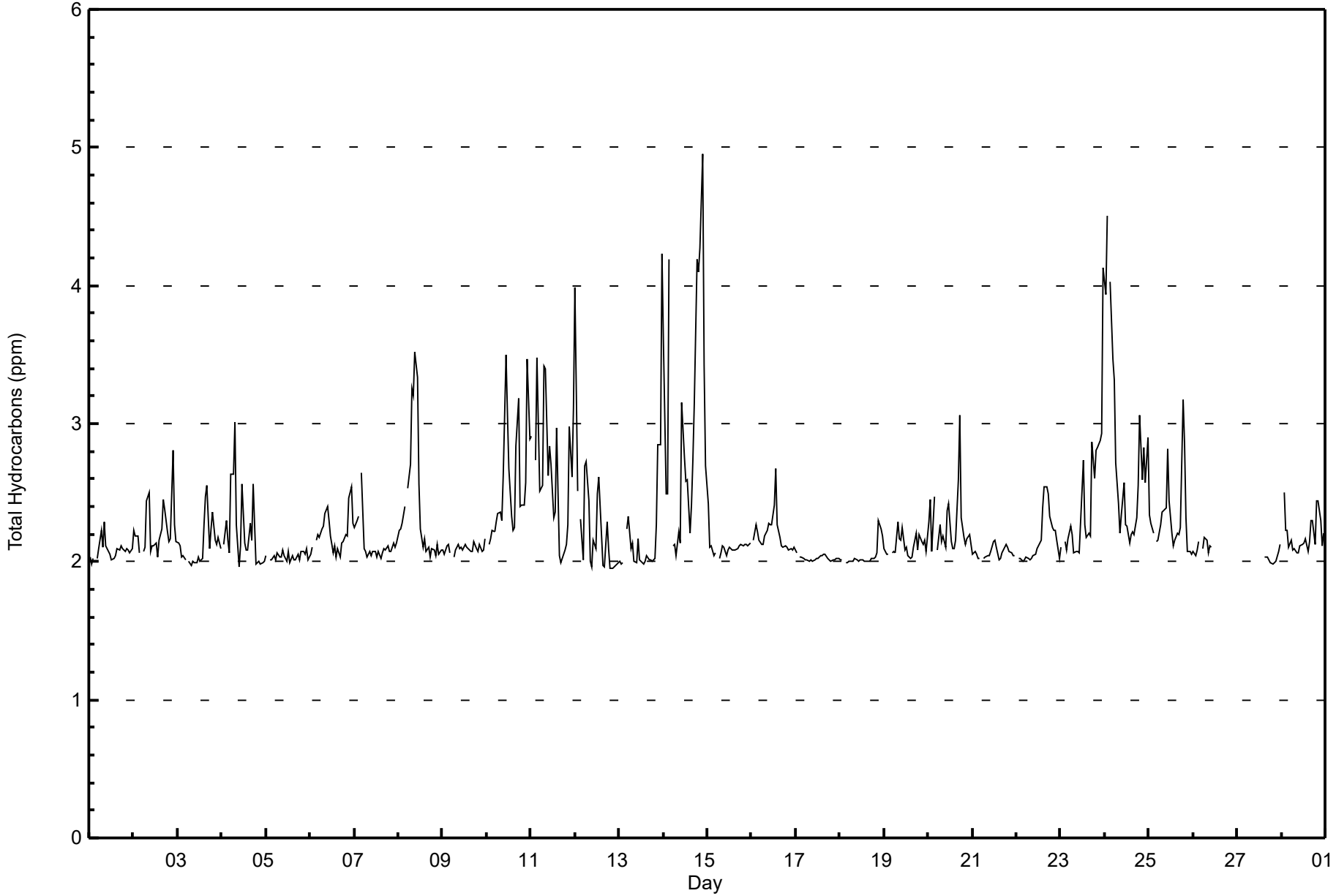
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Mildred Lake - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	151	24.47	24.47
2.1 - 3.0	434	70.34	94.81
3.1 - 10.0	32	5.19	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 617

Total Number of Hours: 672

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	70	28	3	2	1	2	9	2	7	7	9	5	0	0	3	3	151
2.1 - 3.0	125	34	6	3	7	19	66	69	31	15	4	6	10	0	8	29	432
3.1 - 10.0	5	0	0	1	0	1	3	6	5	2	0	0	0	0	2	7	32
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	200	62	9	6	8	22	78	77	43	24	13	11	10	0	13	39	615

Total Number of Valid Hours: 615

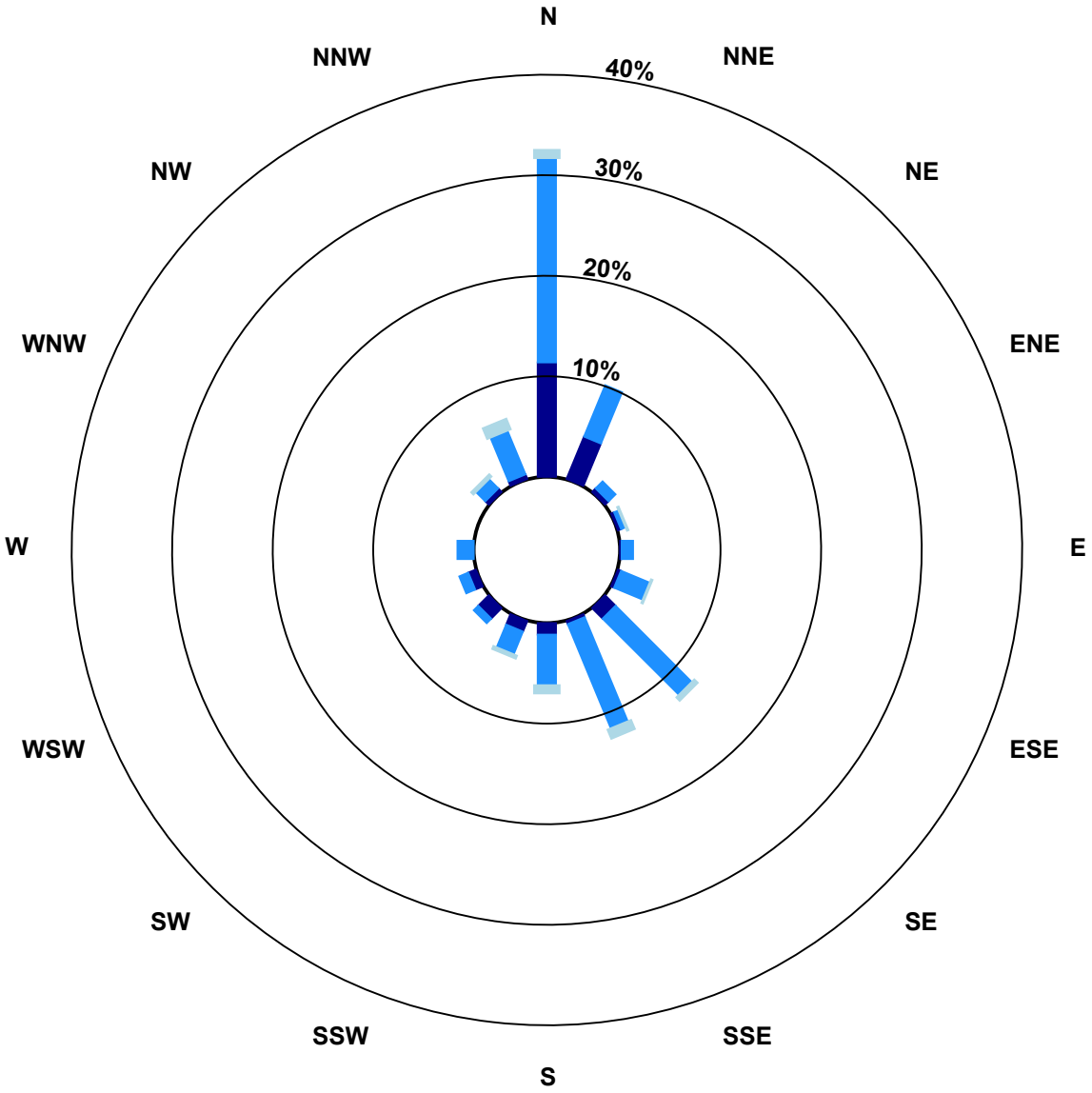
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Mildred Lake



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

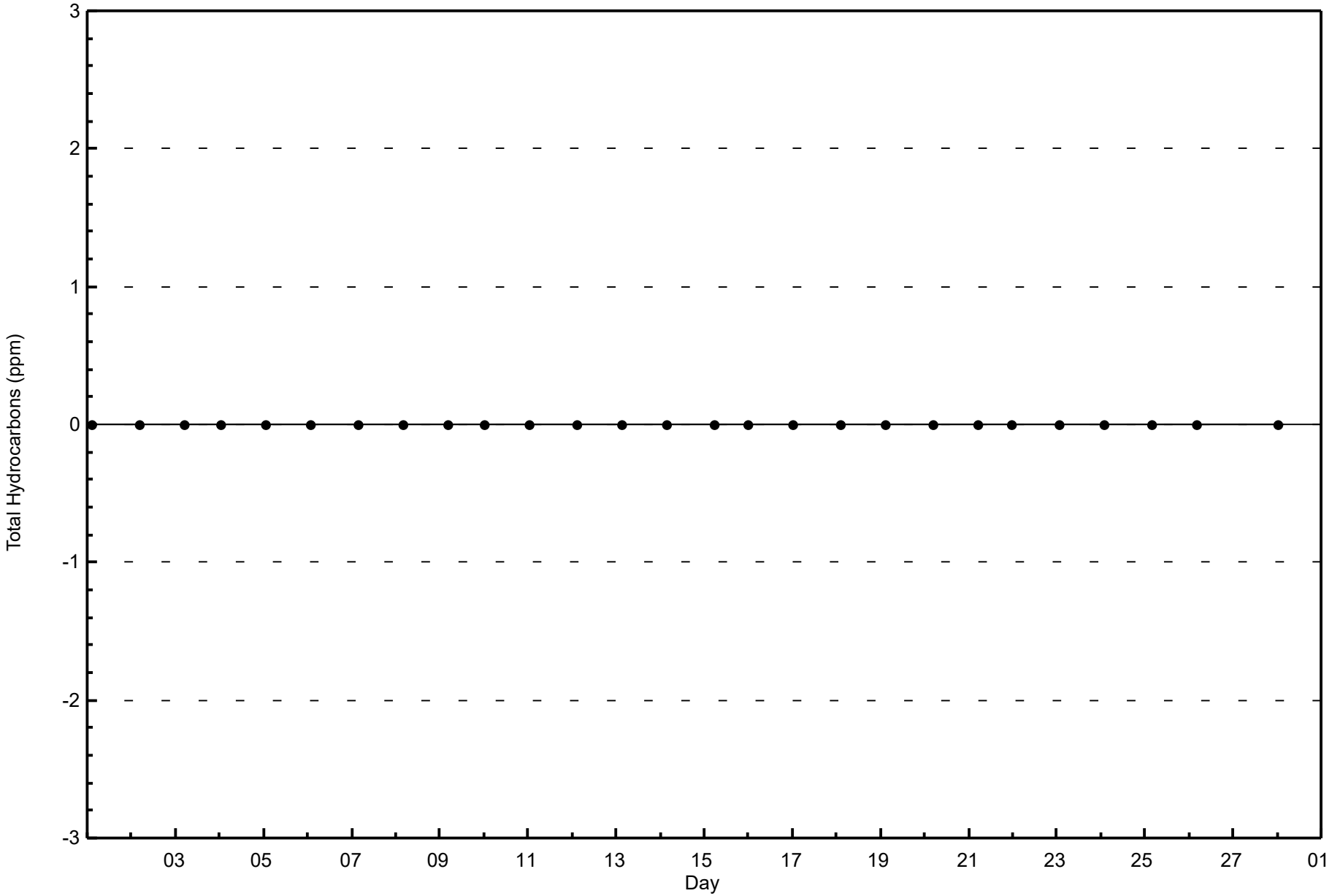
Total Number of Valid Hours: 615

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Mildred Lake - February 2026

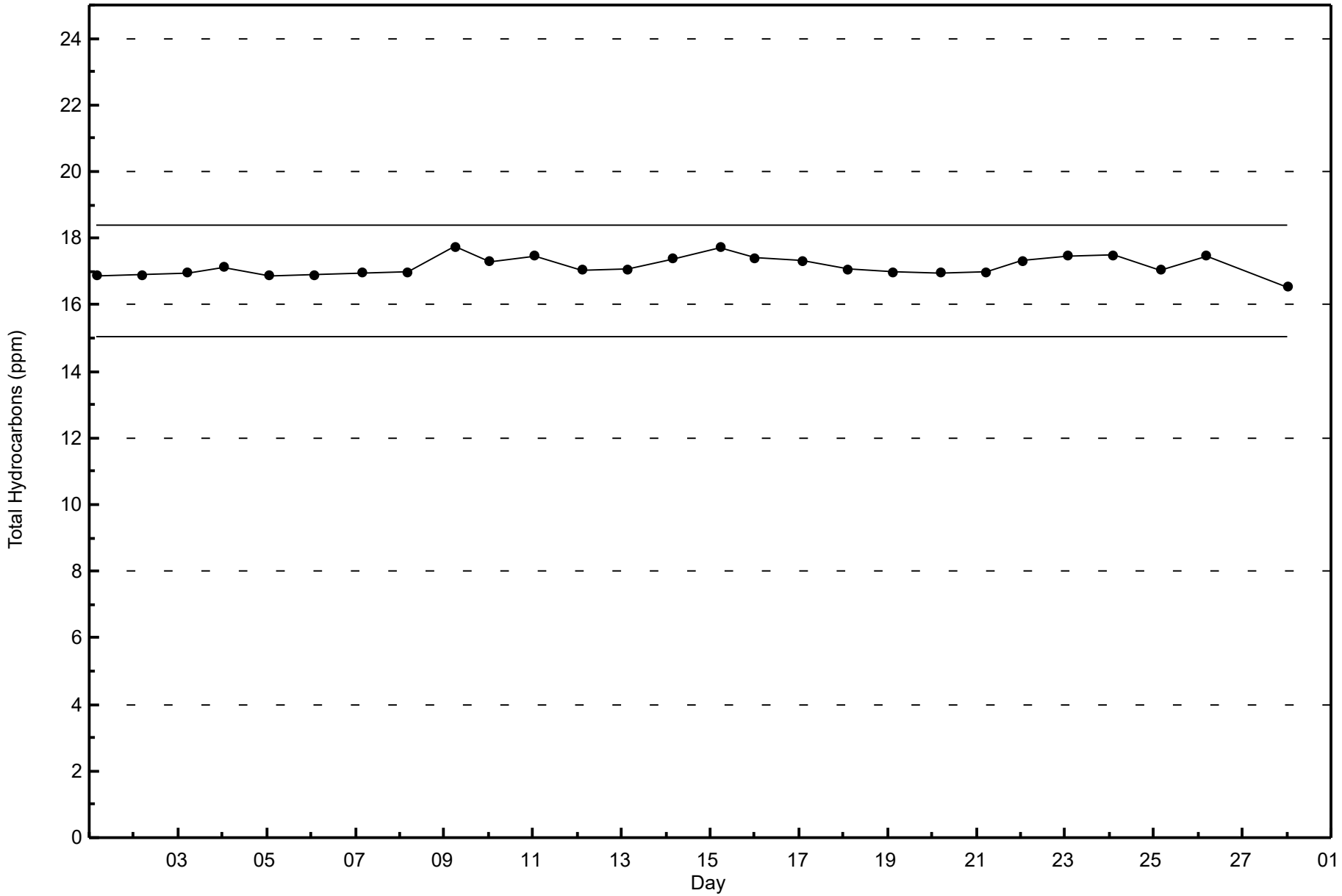


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Mildred Lake - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Mildred Lake - February 2026

Maximum Value: 0.860 ppm on Feb 14 19:00

Maximum Daily Average: 0.290 ppm on Feb 14

Minimum Value: 0.000 ppm on Feb 1 01:00

Minimum Daily Average: 0.000 ppm on Feb 6

Maximum Diurnal Average: 0.073 ppm at hour 8

Minimum Diurnal Average: 0.016 ppm at hour 15

Monthly Average: 0.043 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.2 P_{99} = 0.6

Hours in Service:	672
Hours of Data:	617
Hours of Missing Data:	55
Hours of Calibration:	40
Percent Operational Time:	97.8

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.001	0.006	0.145	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.145
2-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.002	0.000	0.000	0.000	0.014	0.178	0.000	0.000	0.010	0.178
3-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.072	0.123	0.118	0.000	0.004	0.008	0.000	0.000	0.000	0.000	0.014	0.123
4-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.069	0.606	0.204	0.000	0.140	0.432	0.000	0.004	0.020	0.153	0.026	0.110	0.000	0.000	0.000	0.000	0.000	0.000	0.077	0.606
5-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
6-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7-Feb	0.000	0.047	0.052	Z	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.141
8-Feb	0.000	0.000	0.000	0.062	Z	0.265	0.416	0.670	0.524	0.831	0.432	0.142	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.145	0.831
9-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.134	0.239	0.328	0.220	0.073	0.001	0.000	0.010	0.052	0.002	0.015	0.000	0.007	0.084	0.004	0.051	0.328
11-Feb	0.007	Z	0.321	0.227	0.053	0.100	0.234	0.185	0.018	0.000	0.009	0.000	0.000	0.008	0.036	0.000	0.000	0.007	0.000	0.000	0.000	0.037	0.258	0.231	0.075	0.321
12-Feb	0.145	0.020	Z	0.235	0.002	0.534	0.532	0.356	0.005	0.000	0.008	0.000	0.006	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.534
13-Feb	0.000	0.000	0.000	Z	0.235	0.249	0.010	0.075	0.001	0.000	0.114	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.200	0.095	0.303	0.059	0.303
14-Feb	0.291	0.029	0.017	0.222	Z	0.000	0.000	0.000	0.000	0.000	0.321	0.274	0.268	0.265	0.018	0.186	0.407	0.501	0.860	0.859	0.800	0.685	0.431	0.240	0.290	0.860
15-Feb	0.091	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.091
16-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.072	0.323	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.323
17-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006
19-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.004
20-Feb	0.185	0.024	0.004	0.109	Z	0.021	0.073	0.042	0.000	0.000	0.006	0.034	0.000	0.000	0.000	0.009	0.279	0.623	0.100	0.000	0.000	0.000	0.000	0.000	0.066	0.623
21-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.214	0.347	0.292	0.227	0.082	0.000	0.000	0.000	0.000	0.000	0.051	0.347
23-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.176	0.276	0.017	0.009	0.045	0.007	0.072	0.018	0.065	0.044	0.123	0.132	0.214	0.052	0.276
24-Feb	0.261	0.359	Z	0.371	0.292	0.240	0.106	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.104	0.186	0.286	0.027	0.011	0.031	0.139	0.106	0.371
25-Feb	0.011	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.004	0.094	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.333	0.309	0.073	0.000	0.000	0.000	0.036	0.333
26-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	C	C	C	C	C	C	C	C	M	M	M	M	M	--	0.000
27-Feb	M	M	M	M	M	M	M	M	M	M	C	C	C	C	C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--	0.000
28-Feb	Z	0.000	0.000	0.007	0.004	0.017	0.005	0.010	0.000	0.000	0.000	0.016	0.008	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.017
	0.045	0.021	0.017	0.056	0.033	0.062	0.054	0.073	0.033	0.039	0.047	0.054	0.033	0.027	0.016	0.032	0.043	0.063	0.059	0.057	0.038	0.046	0.038	0.042	Diurnal Average	
	0.291	0.359	0.321	0.371	0.292	0.534	0.532	0.670	0.524	0.831	0.432	0.432	0.276	0.323	0.214	0.347	0.407	0.623	0.860	0.859	0.800	0.685	0.431	0.303	Diurnal Maximum	

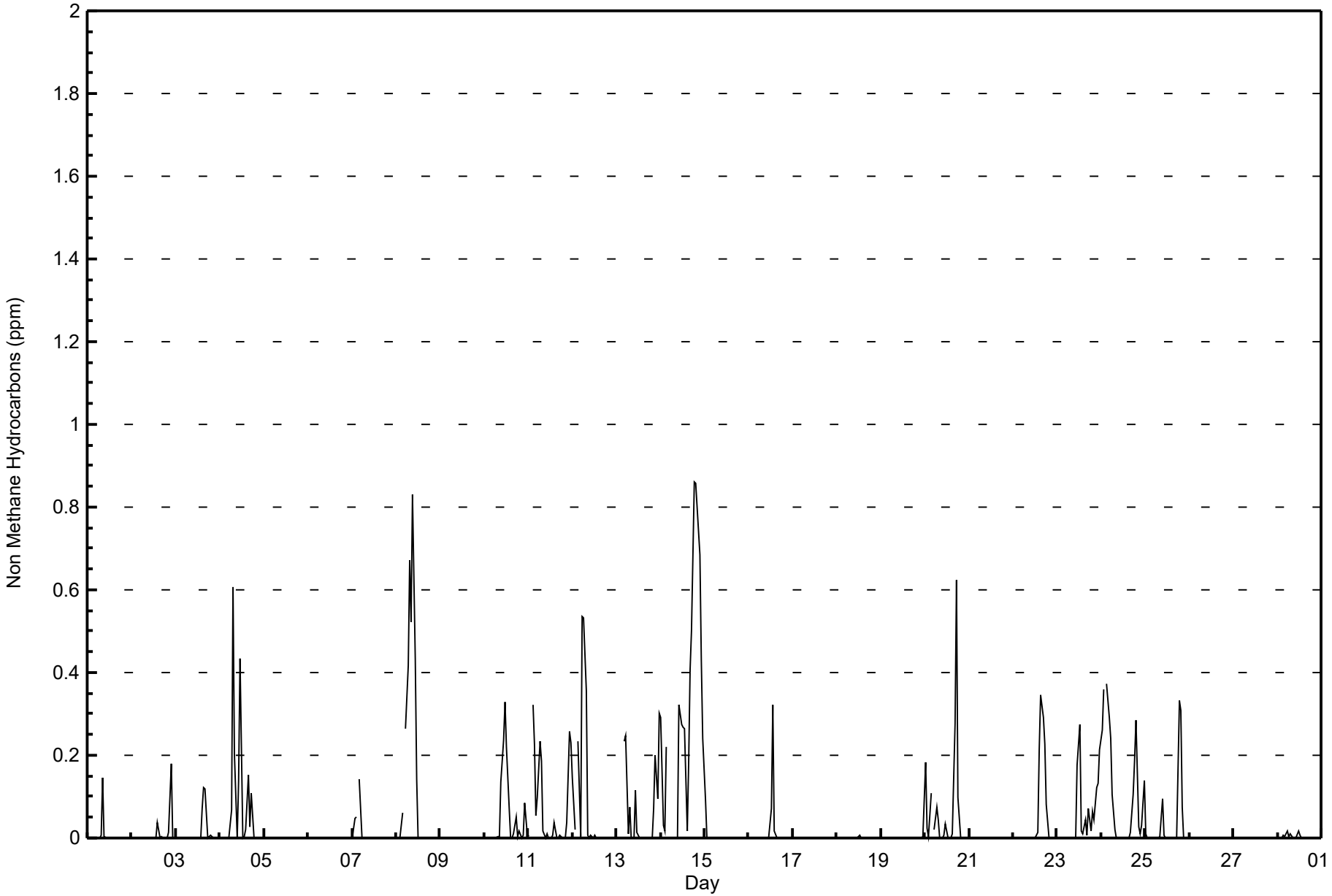
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Mildred Lake - February 2026



Non Methane Hydrocarbons (NMHC) - ppm
Mildred Lake - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	465	75.36	75.36
0.006 - 0.05	55	8.91	84.28
0.06 - 0.1	34	5.51	89.79
> 0.1	63	10.21	100.00

Total Number of Valid Hours: 617

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Mildred Lake - February 2026

Concentration	Wind Direction																
Ranges (ppm)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	179	62	8	3	5	11	60	51	27	17	10	4	2	0	7	17	463
0.006 - 0.05	5	0	0	0	1	4	13	14	9	2	0	1	3	0	1	2	55
0.06 - 0.1	4	0	1	0	1	2	2	7	3	2	0	2	2	0	2	6	34
> 0.1	12	0	0	3	1	5	3	5	4	3	3	4	3	0	3	14	63
Totals	200	62	9	6	8	22	78	77	43	24	13	11	10	0	13	39	615

Total Number of Valid Hours: 615

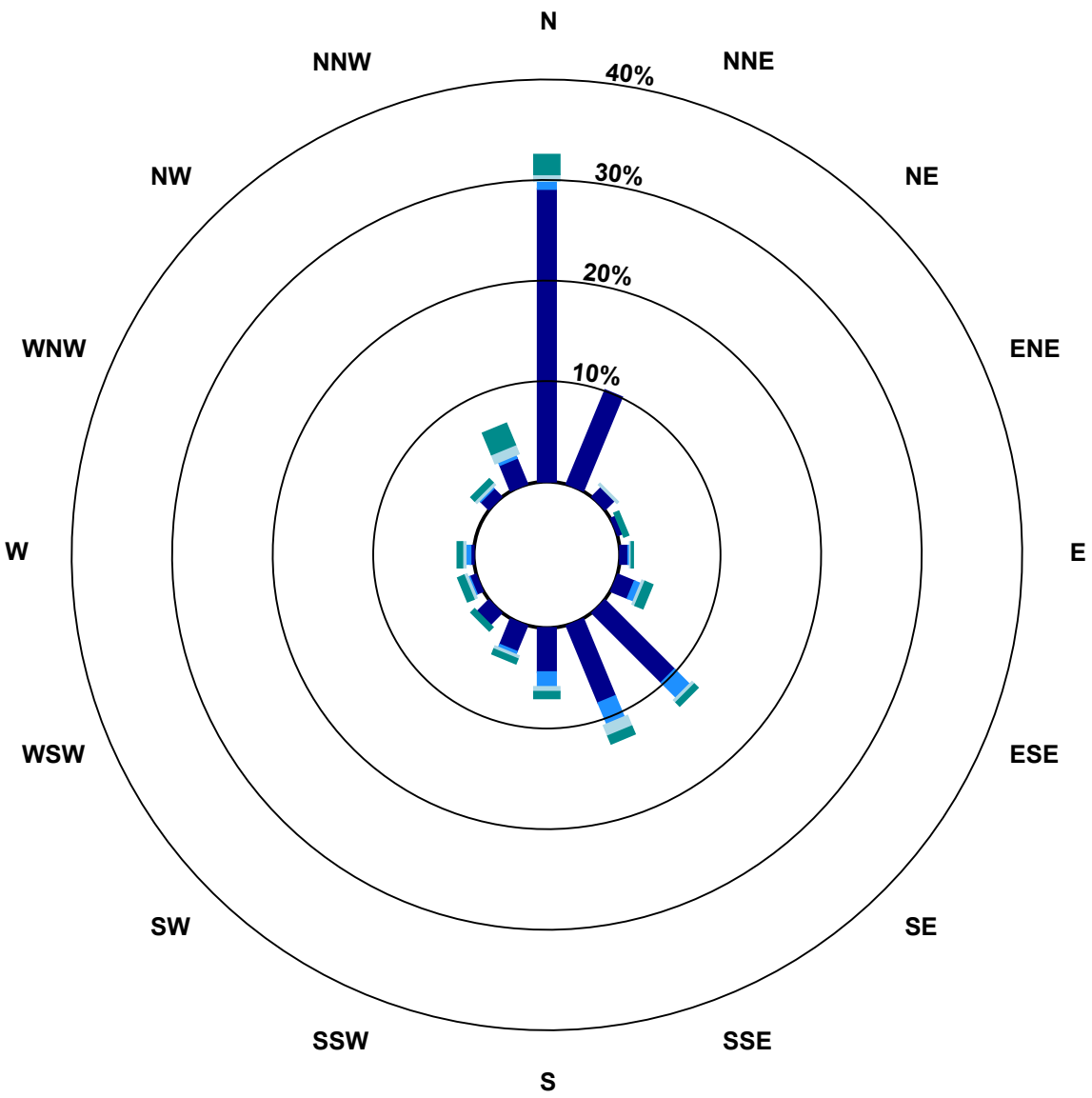
Total Number of Hours: 672

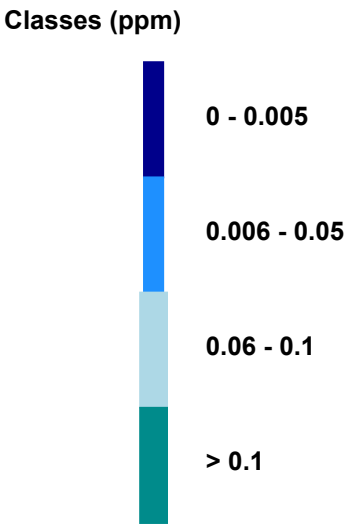
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Mildred Lake





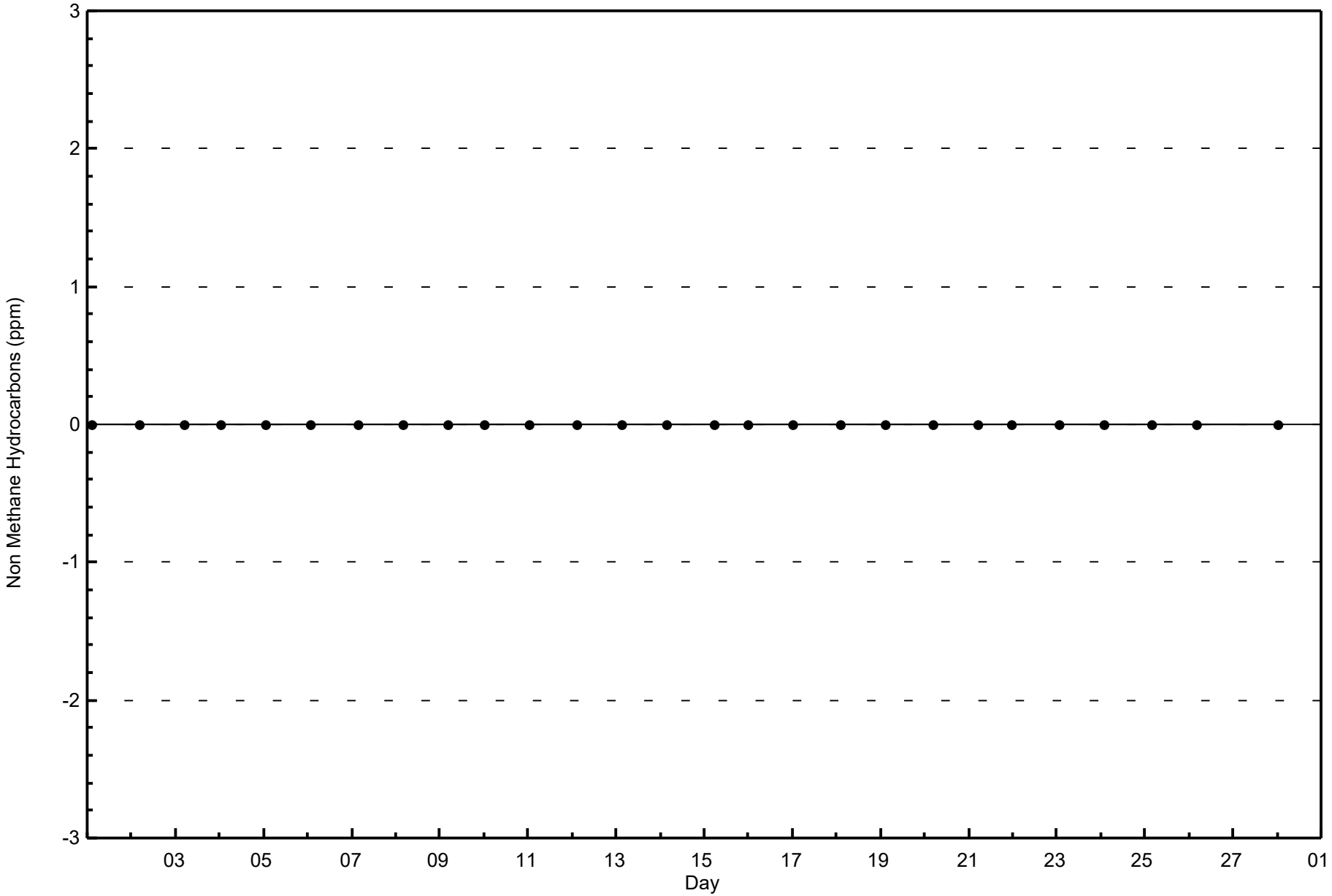
Total Number of Valid Hours: 615

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Mildred Lake - February 2026

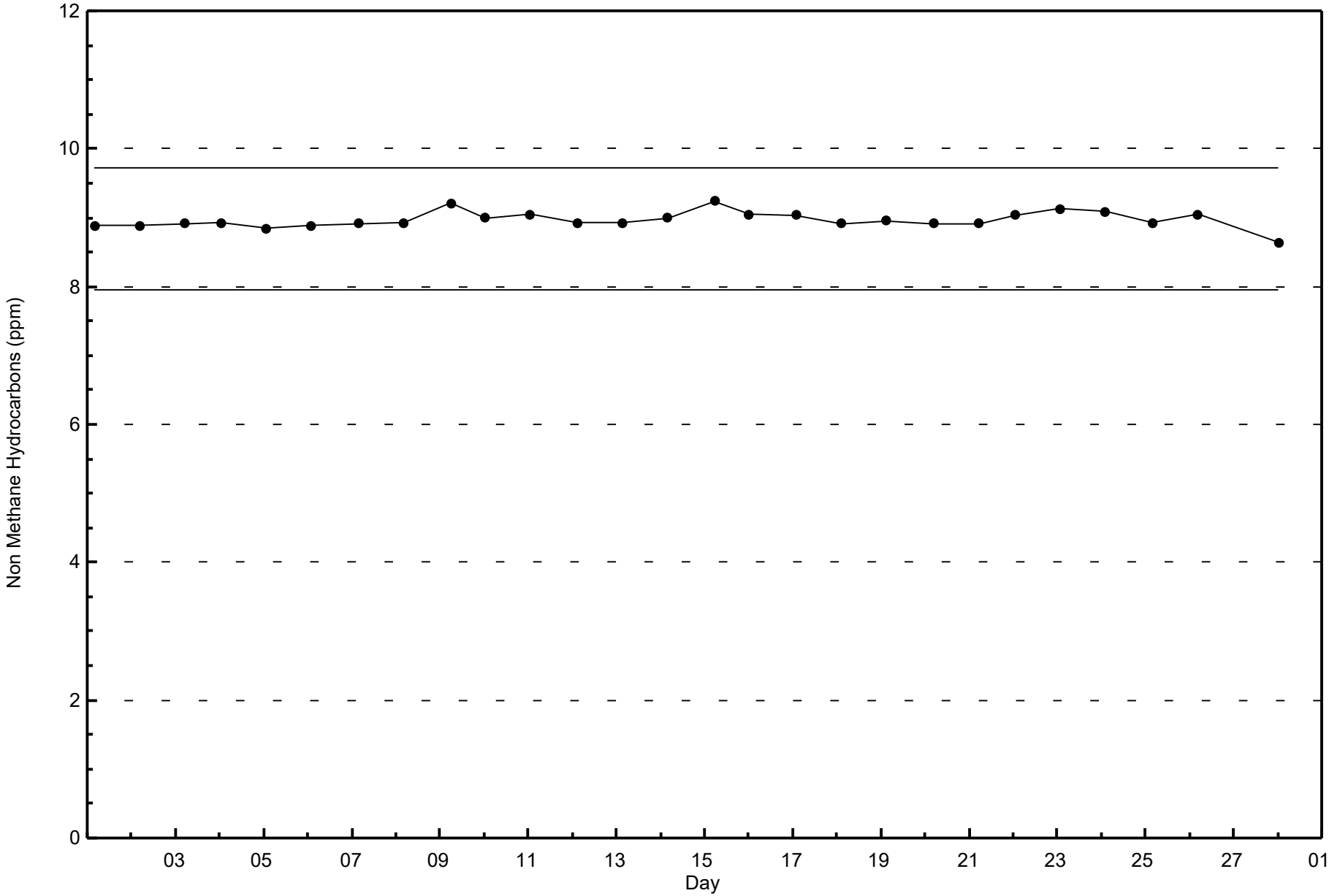


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Mildred Lake - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Mildred Lake - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 4.3 ppm on Feb 14 22:00

Maximum Daily Average: 2.7 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 12 20:00

Minimum Daily Average: 2.0 ppm on Feb 17

Maximum Diurnal Average: 2.4 ppm at hour 1

Minimum Diurnal Average: 2.1 ppm at hour 16

Monthly Average: 2.22 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.1 Median = 2.1 Q_3 = 2.2 P_{90} = 2.5 P_{99} = 3.7

Hours in Service:	672
Hours of Data:	617
Hours of Missing Data:	55
Hours of Calibration:	40
Percent Operational Time:	97.8

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.0	2.0	2.0	Z	2.0	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
2-Feb	2.2	2.2	2.2	2.1	Z	2.1	2.1	2.4	2.5	2.1	2.1	2.1	2.1	2.0	2.1	2.2	2.4	2.4	2.2	2.1	2.2	2.6	2.3	2.2	2.2	2.6
3-Feb	2.1	2.1	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.3	2.4	2.1	2.2	2.3	2.2	2.1	2.2	2.1	2.1	2.4
4-Feb	Z	2.1	2.3	2.2	2.1	2.6	2.6	2.4	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.6
5-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.1
6-Feb	2.1	2.1	Z	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.3	2.2	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.2	2.2	2.5	2.5	2.3	2.2	2.5
7-Feb	2.2	2.3	2.3	Z	2.5	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5
8-Feb	2.2	2.2	2.3	2.3	Z	2.3	2.3	2.6	2.7	2.7	2.9	2.4	2.2	2.1	2.2	2.1	2.1	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.3	2.9
9-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
10-Feb	Z	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.3	2.5	3.3	2.7	2.5	2.3	2.2	2.2	2.8	3.1	2.4	2.4	2.4	2.6	3.4	2.9	2.5	3.4
11-Feb	2.9	Z	2.4	3.3	2.9	2.4	2.3	3.2	3.4	2.6	2.8	2.7	2.3	2.3	2.9	2.0	2.0	2.0	2.1	2.1	2.3	2.9	2.4	2.9	2.6	3.4
12-Feb	3.8	2.5	Z	2.1	2.0	2.2	2.2	2.1	2.0	2.0	2.1	2.1	2.5	2.6	2.2	2.0	2.0	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.2	3.8
13-Feb	2.0	2.0	2.0	Z	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.7	2.8	3.9	2.2	3.9
14-Feb	3.3	2.5	2.5	4.0	Z	2.1	2.1	2.0	2.2	2.1	2.8	2.5	2.3	2.3	2.2	2.2	2.3	2.6	3.3	3.2	3.5	4.3	3.0	2.5	2.7	4.3
15-Feb	2.3	2.1	2.1	2.0	2.1	Z	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
16-Feb	Z	2.2	2.3	2.2	2.2	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3
17-Feb	2.1	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
18-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.2	2.2	2.0	2.3
19-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.3	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.1	2.2	2.1	2.2	2.1	2.1	2.2	2.1	2.1	2.3
20-Feb	2.1	2.4	2.1	2.4	Z	2.1	2.2	2.1	2.2	2.1	2.4	2.4	2.1	2.1	2.1	2.1	2.3	2.4	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.4
21-Feb	2.1	2.1	2.1	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.2
22-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.0	2.1	2.3
23-Feb	2.1	Z	2.1	2.1	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.5	2.3	2.2	2.2	2.2	2.8	2.6	2.7	2.8	2.8	2.8	3.9	2.4	3.9
24-Feb	3.7	4.1	Z	3.7	3.2	3.1	2.6	2.4	2.2	2.3	2.6	2.3	2.3	2.1	2.2	2.2	2.2	2.2	2.4	2.8	2.6	2.8	2.5	2.8	2.7	4.1
25-Feb	2.3	2.3	2.2	Z	2.1	2.2	2.3	2.4	2.4	2.3	2.8	2.4	2.2	2.1	2.2	2.2	2.2	2.2	2.8	2.6	2.2	2.1	2.1	2.1	2.3	2.8
26-Feb	2.1	2.0	2.1	2.1	Z	2.1	2.2	2.2	2.1	2.1	2.1	C	C	C	C	C	C	C	C	M	M	M	M	M	--	2.2
27-Feb	M	M	M	M	M	M	M	M	M	M	C	C	C	C	C	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	--	2.1
28-Feb	Z	2.5	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.3	2.3	2.1	2.4	2.4	2.3	2.1	2.2	2.2	2.5
	2.4	2.3	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	Diurnal Average	
	3.8	4.1	2.5	4.0	3.2	3.1	2.6	3.2	3.4	2.7	3.3	2.7	2.5	2.6	2.9	2.3	2.8	3.1	3.3	3.2	3.5	4.3	3.4	3.9	Diurnal Maximum	

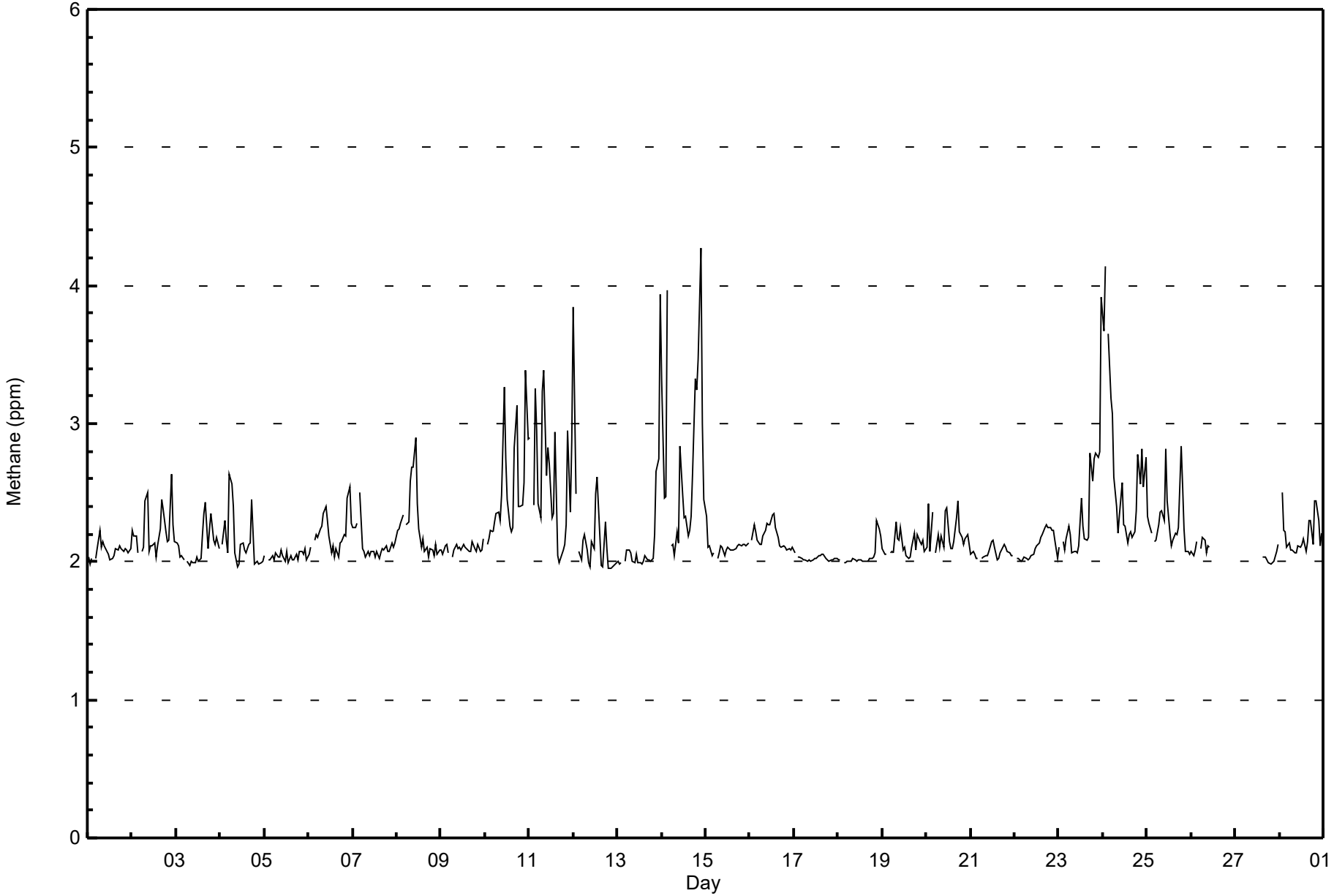
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Mildred Lake - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	154	24.96	24.96
2.1 - 3.0	443	71.80	96.76
3.1 - 10.0	20	3.24	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 617

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Mildred Lake - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	70	28	3	2	1	2	9	2	7	7	9	8	0	0	3	3	154
2.1 - 3.0	128	34	6	4	7	19	67	70	32	15	4	3	10	0	8	34	441
3.1 - 10.0	2	0	0	0	0	1	2	5	4	2	0	0	0	0	2	2	20
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	200	62	9	6	8	22	78	77	43	24	13	11	10	0	13	39	615

Total Number of Valid Hours: 615

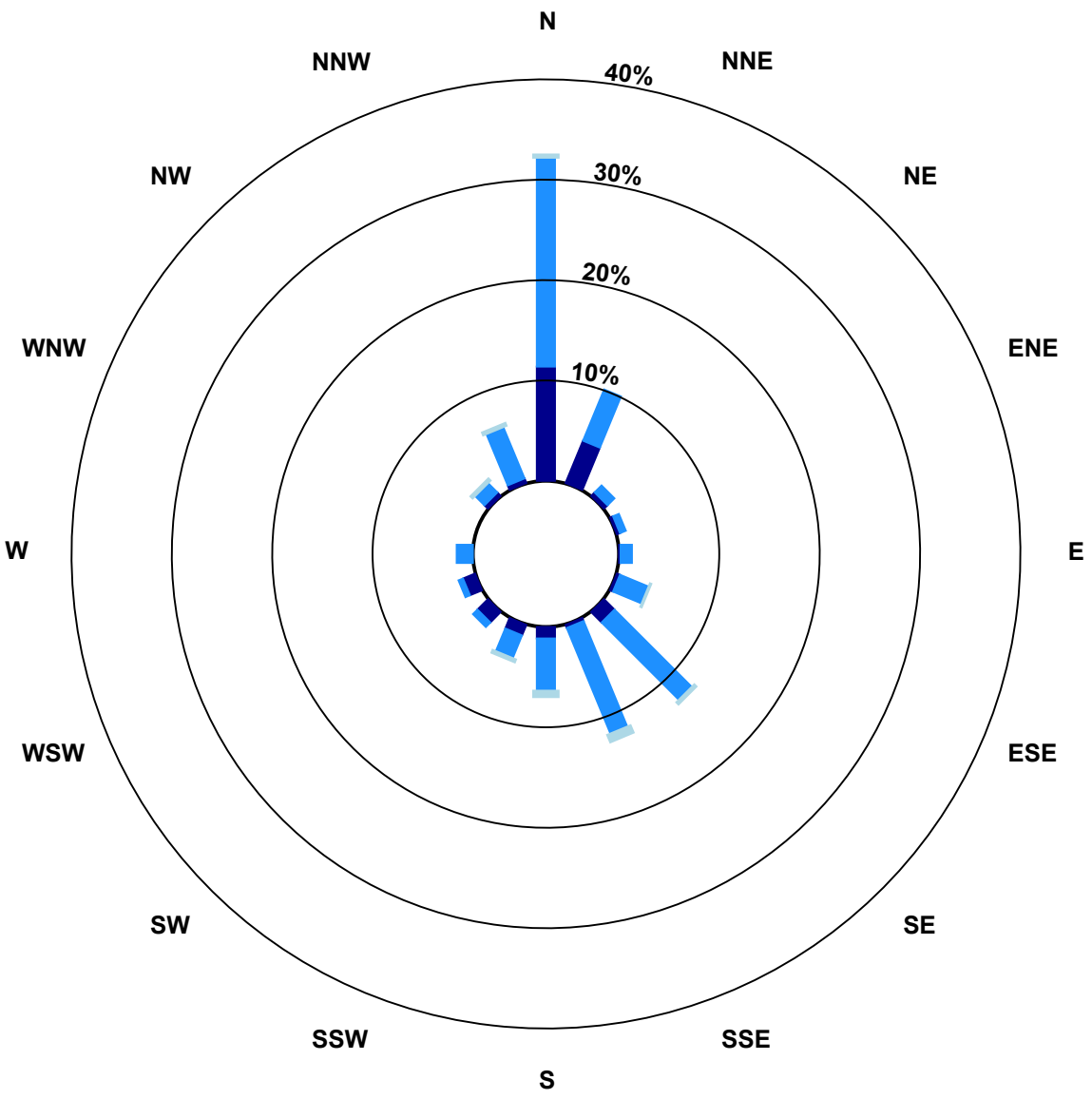
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Mildred Lake



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

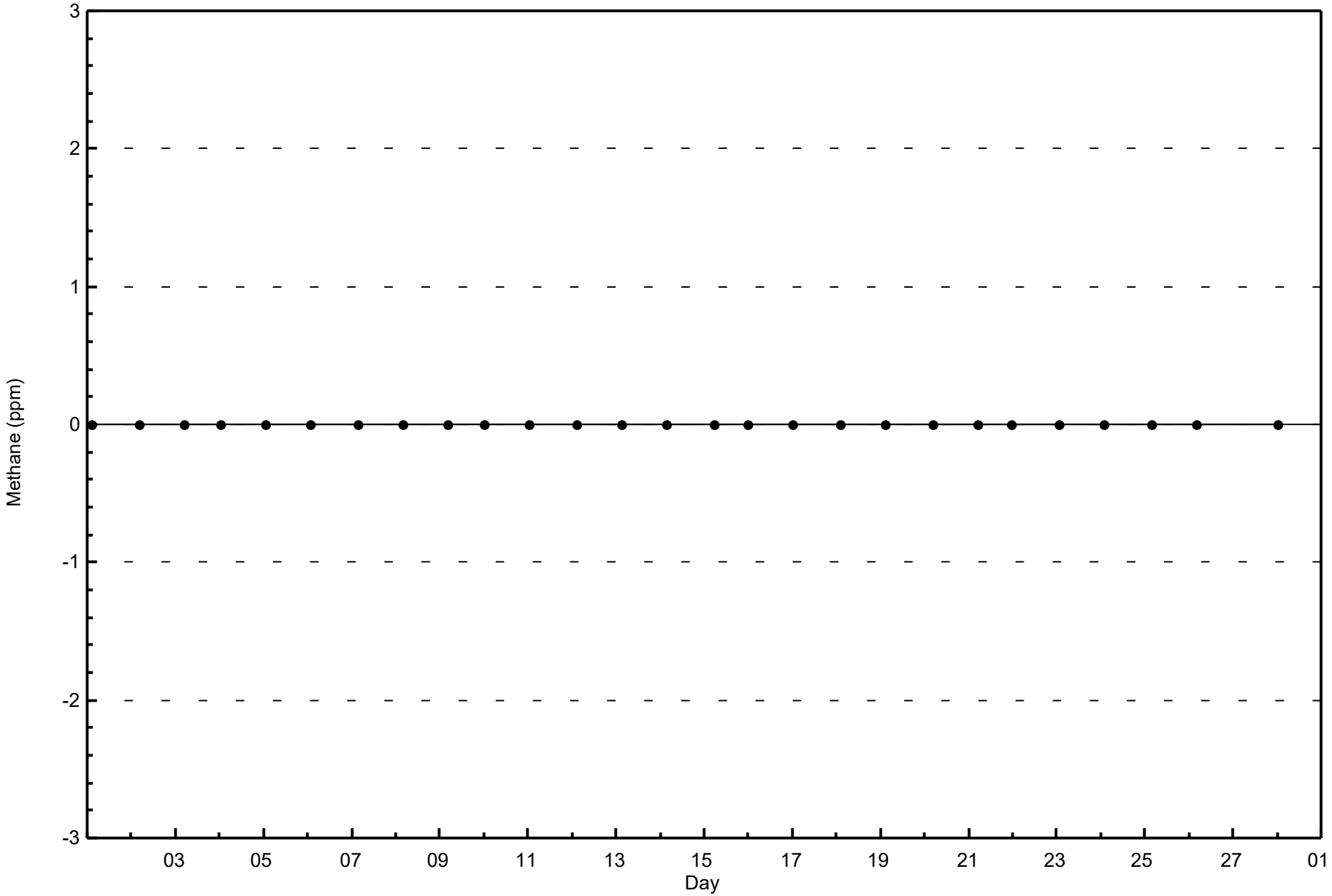
Total Number of Valid Hours: 615

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Mildred Lake - February 2026

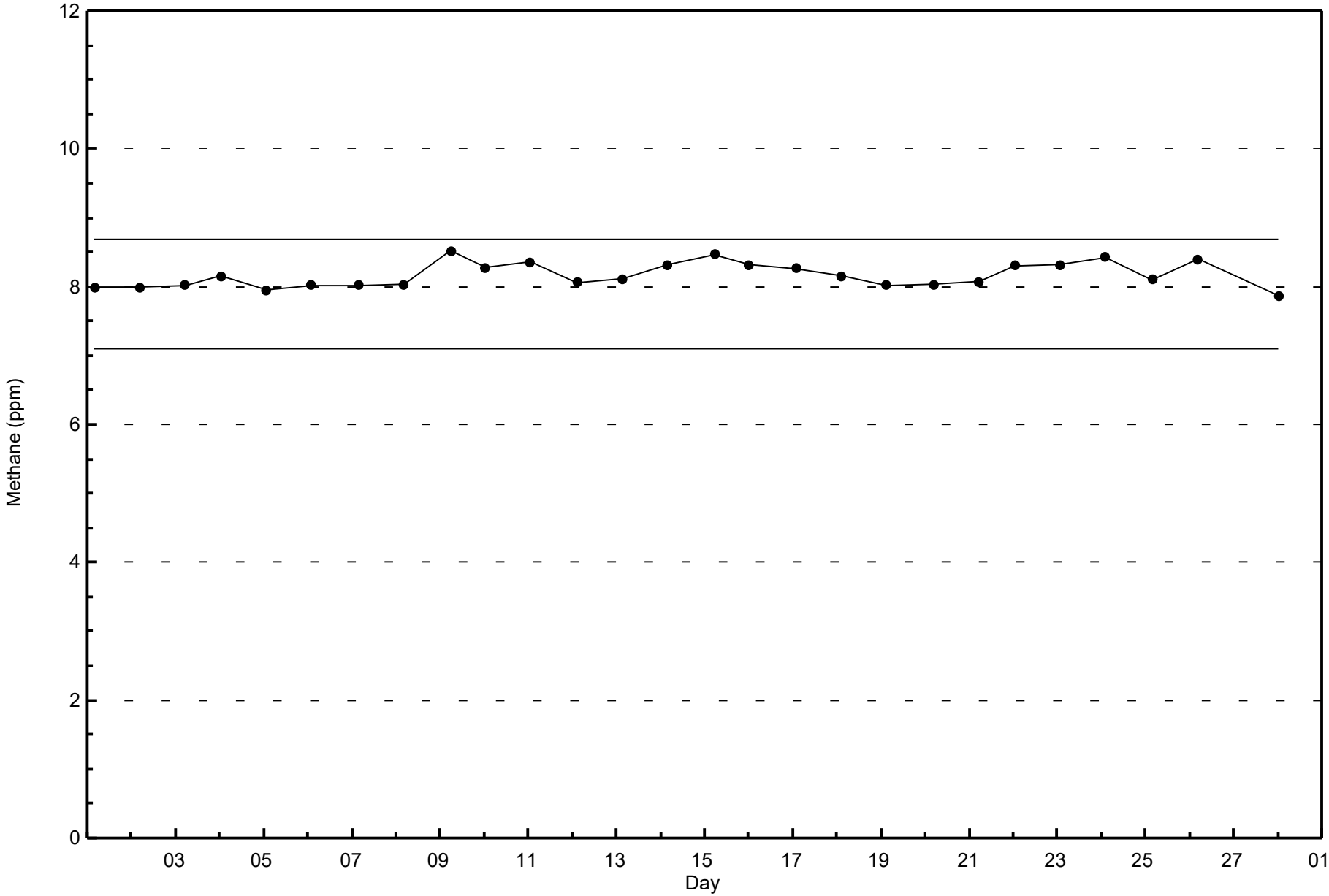


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Mildred Lake - February 2026



Maximum Value: 9.6 C on Feb 4 16:00

Maximum Daily Average: 2.0 C on Feb 4

Minimum Value: -36.8 C on Feb 28 07:00

Minimum Daily Average: -30.6 C on Feb 18

Maximum Diurnal Average: -11.6 C at hour 16

Minimum Diurnal Average: -17.8 C at hour 7

Monthly Average: -15.17 C

Percentiles: P_1 = -35.7 P_{10} = -28.1 Q_1 = -22.5 Median = -15.0 Q_3 = -8.6 P_{90} = -1.4 P_{99} = 5.5

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

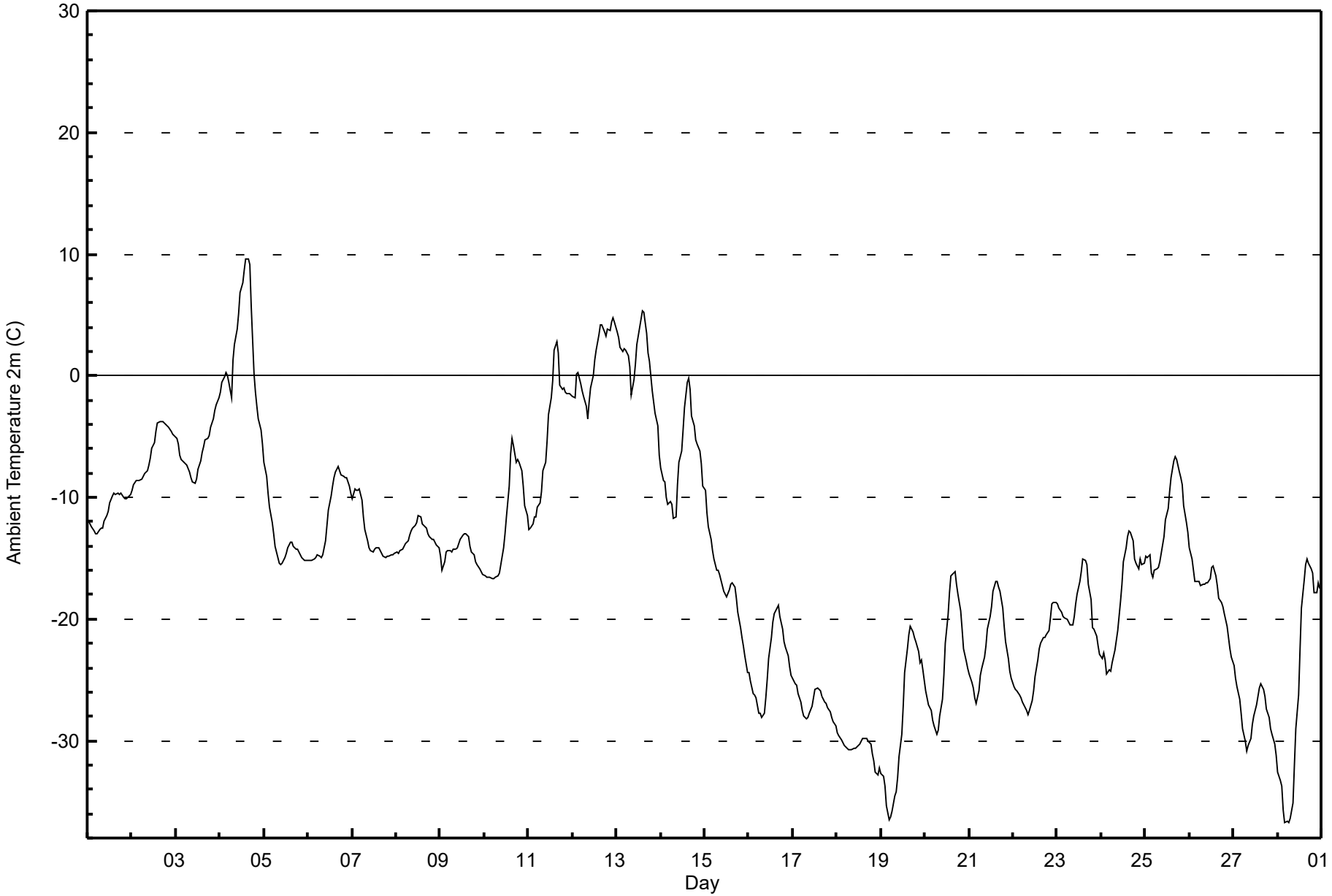
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.9	-12.1	-12.5	-12.8	-13.0	-12.9	-12.6	-12.5	-12.5	-12.0	-11.4	-11.1	-10.4	-9.9	-9.7	-9.8	-9.7	-9.8	-9.7	-10.0	-10.1	-10.1	-10.0	-9.7	-11.1	-9.7
2-Feb	-9.4	-9.0	-8.6	-8.6	-8.6	-8.5	-8.2	-8.1	-7.8	-7.4	-6.7	-6.0	-5.5	-4.5	-3.9	-3.8	-3.7	-3.8	-3.9	-4.1	-4.2	-4.5	-4.8	-5.0	-6.2	-3.7
3-Feb	-5.1	-5.6	-6.6	-6.8	-7.1	-7.2	-7.3	-7.9	-8.4	-8.7	-8.8	-8.5	-7.7	-7.0	-6.3	-5.8	-5.3	-5.2	-4.9	-4.2	-3.5	-2.9	-2.3	-1.8	-6.0	-1.8
4-Feb	-1.4	-0.5	-0.1	0.3	0.0	-0.6	-1.8	1.3	2.6	3.8	5.1	6.8	7.7	8.7	9.6	9.6	9.1	5.7	0.1	-1.3	-2.5	-3.5	-4.5	-5.6	2.0	9.6
5-Feb	-7.1	-8.2	-9.6	-10.8	-12.0	-13.0	-14.0	-15.0	-15.4	-15.5	-15.4	-15.0	-14.6	-14.2	-13.7	-13.6	-14.0	-14.2	-14.2	-14.4	-14.9	-15.1	-15.2	-15.2	-13.5	-7.1
6-Feb	-15.1	-15.2	-15.1	-15.1	-15.0	-14.7	-14.9	-14.9	-14.7	-13.6	-12.3	-11.0	-9.9	-9.1	-8.4	-7.9	-7.5	-7.8	-8.1	-8.3	-8.4	-8.4	-9.1	-9.7	-11.4	-7.5
7-Feb	-10.1	-9.3	-9.4	-9.4	-9.3	-10.2	-11.6	-12.6	-13.5	-14.2	-14.4	-14.5	-14.3	-14.1	-14.2	-14.4	-14.6	-14.9	-15.0	-14.9	-14.8	-14.8	-14.7	-14.7	-13.1	-9.3
8-Feb	-14.5	-14.6	-14.4	-14.3	-14.0	-13.8	-13.5	-13.1	-12.7	-12.5	-12.3	-12.0	-11.5	-11.7	-12.1	-12.3	-12.5	-13.0	-13.2	-13.4	-13.5	-13.7	-13.9	-14.1	-13.2	-11.5
9-Feb	-14.8	-16.0	-15.3	-14.5	-14.3	-14.3	-14.5	-14.2	-14.3	-14.1	-13.8	-13.4	-13.1	-13.0	-13.0	-13.3	-14.0	-14.4	-14.7	-15.2	-15.5	-15.9	-16.1	-16.3	-14.5	-13.0
10-Feb	-16.5	-16.6	-16.6	-16.6	-16.7	-16.7	-16.6	-16.4	-16.2	-15.5	-14.1	-13.0	-11.6	-9.0	-6.4	-5.1	-5.8	-7.2	-6.9	-7.1	-7.8	-9.1	-10.6	-11.5	-12.1	-5.1
11-Feb	-12.7	-12.5	-12.2	-11.6	-11.7	-10.8	-10.4	-9.5	-7.8	-7.1	-5.4	-3.2	-1.8	-0.4	2.1	2.8	1.9	-0.7	-1.1	-1.0	-1.3	-1.4	-1.5	-1.6	-5.0	2.8
12-Feb	-1.7	-1.8	0.2	0.3	-0.6	-1.2	-1.7	-2.5	-3.5	-2.1	-1.0	0.0	1.3	2.1	3.4	4.1	4.2	3.6	3.3	3.9	3.7	4.4	4.7	4.4	1.2	4.7
13-Feb	3.6	3.2	2.3	2.0	2.2	2.1	1.7	0.7	-1.6	-0.3	0.9	2.5	4.0	4.6	5.4	5.3	3.5	1.8	1.2	-1.3	-2.1	-3.1	-4.1	-6.6	1.2	5.4
14-Feb	-7.6	-8.6	-8.7	-10.0	-10.5	-10.3	-10.6	-11.7	-11.6	-9.0	-7.1	-6.1	-4.4	-2.6	-0.6	-0.2	-1.1	-3.3	-4.1	-5.3	-5.6	-6.2	-7.2	-9.1	-6.7	-0.2
15-Feb	-9.4	-11.2	-12.5	-13.4	-14.4	-15.1	-16.0	-16.0	-16.3	-16.8	-17.7	-17.9	-18.2	-17.6	-17.2	-17.0	-17.3	-18.3	-19.5	-20.8	-21.5	-22.2	-23.1	-24.3	-17.2	-9.4
16-Feb	-24.5	-25.1	-26.1	-26.2	-26.5	-27.7	-27.8	-28.1	-27.8	-26.5	-24.9	-23.2	-21.5	-20.3	-19.5	-19.1	-18.9	-19.8	-20.8	-21.8	-22.4	-23.0	-23.9	-24.6	-23.8	-18.9
17-Feb	-25.1	-25.3	-25.4	-26.2	-26.8	-27.5	-28.0	-28.2	-28.1	-27.8	-27.2	-26.5	-25.8	-25.7	-25.8	-25.9	-26.3	-26.8	-26.9	-27.2	-27.6	-28.1	-28.4	-28.7	-26.9	-25.1
18-Feb	-29.3	-29.6	-29.9	-30.2	-30.4	-30.5	-30.7	-30.7	-30.7	-30.7	-30.7	-30.6	-30.3	-30.1	-29.8	-29.8	-29.8	-30.0	-30.3	-31.1	-31.7	-32.6	-32.8	-32.3	-30.6	-29.3
19-Feb	-32.7	-32.9	-33.7	-35.4	-36.5	-36.3	-35.8	-34.5	-34.2	-33.0	-31.3	-29.4	-27.1	-24.4	-22.5	-21.3	-20.6	-21.1	-21.6	-21.9	-22.7	-23.6	-23.4	-24.2	-28.3	-20.6
20-Feb	-25.9	-26.4	-27.1	-27.5	-28.4	-28.8	-29.5	-29.2	-28.0	-26.6	-24.6	-22.0	-19.7	-17.8	-16.4	-16.3	-16.1	-17.1	-17.9	-19.3	-20.9	-22.5	-23.5	-24.1	-23.1	-16.1
21-Feb	-24.6	-25.2	-25.7	-26.4	-26.9	-25.9	-24.7	-24.1	-23.2	-22.2	-20.9	-19.8	-19.0	-17.7	-16.9	-16.9	-17.3	-17.7	-19.2	-20.6	-21.8	-23.3	-24.3	-24.9	-22.0	-16.9
22-Feb	-25.5	-25.8	-25.9	-26.3	-26.5	-26.8	-27.3	-27.6	-27.8	-27.5	-26.7	-25.9	-24.7	-23.4	-22.5	-22.0	-21.5	-21.5	-21.3	-21.0	-20.0	-18.7	-18.6	-18.7	-23.9	-18.6
23-Feb	-18.8	-19.1	-19.5	-19.8	-20.0	-20.0	-20.2	-20.5	-20.5	-19.8	-18.8	-18.0	-16.9	-16.1	-15.1	-15.2	-15.5	-17.2	-18.5	-20.7	-20.8	-21.4	-22.2	-22.8	-19.1	-15.1
24-Feb	-23.2	-22.8	-23.3	-24.5	-24.2	-24.3	-23.6	-22.6	-21.7	-20.9	-18.5	-17.1	-15.3	-14.2	-13.3	-12.8	-12.9	-13.6	-15.0	-15.4	-15.9	-15.0	-15.5	-15.4	-18.4	-12.8
25-Feb	-14.9	-15.0	-14.7	-16.2	-16.6	-15.9	-15.8	-15.7	-15.3	-13.9	-13.3	-11.9	-10.9	-9.6	-8.4	-7.0	-6.6	-6.9	-8.0	-8.3	-8.9	-10.7	-12.1	-12.9	-12.1	-6.6
26-Feb	-14.2	-15.1	-16.0	-16.9	-16.9	-16.9	-17.2	-17.2	-17.1	-17.0	-17.0	-16.7	-15.8	-15.7	-16.5	-17.3	-18.2	-18.7	-19.0	-19.6	-20.6	-21.5	-22.4	-23.1	-17.8	-14.2
27-Feb	-23.9	-24.8	-25.6	-26.6	-27.8	-29.0	-30.0	-30.9	-30.4	-29.8	-28.7	-28.0	-27.1	-26.3	-25.6	-25.4	-25.8	-26.3	-27.4	-28.1	-29.1	-29.5	-30.2	-31.2	-27.8	-23.9
28-Feb	-32.6	-33.3	-33.7	-35.7	-36.7	-36.6	-36.8	-36.4	-35.1	-32.0	-29.0	-26.3	-22.5	-19.1	-16.8	-15.5	-15.1	-15.5	-15.9	-16.2	-17.8	-17.8	-17.0	-17.5	-25.5	-15.1
	-16.0	-16.4	-16.6	-17.1	-17.5	-17.6	-17.8	-17.8	-17.6	-16.9	-15.9	-14.9	-13.8	-12.8	-11.9	-11.6	-11.8	-12.6	-13.3	-13.9	-14.4	-14.8	-15.2	-15.8	Diurnal Average	
	3.6	3.2	2.3	2.0	2.2	2.1	1.7	1.3	2.6	3.8	5.1	6.8	7.7	8.7	9.6	9.6	9.1	5.7	3.3	3.9	3.7	4.4	4.7	4.4	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Mildred Lake - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	208	30.95	30.95
-20 - 0	415	61.76	92.71
0 - 10	49	7.29	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 94.3 % on Feb 3 02:00

Maximum Daily Average: 86.1 % on Feb 10

Minimum Value: 39.0 % on Feb 13 16:00

Minimum Daily Average: 50.7 % on Feb 13

Maximum Diurnal Average: 79.1 % at hour 9

Minimum Diurnal Average: 67.1 % at hour 15

Monthly Average: 75.35 %

Percentiles: P_1 = 46.4 P_{10} = 61.8 Q_1 = 68.8 Median = 76.9 Q_3 = 83.2 P_{90} = 87.2 P_{99} = 93.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

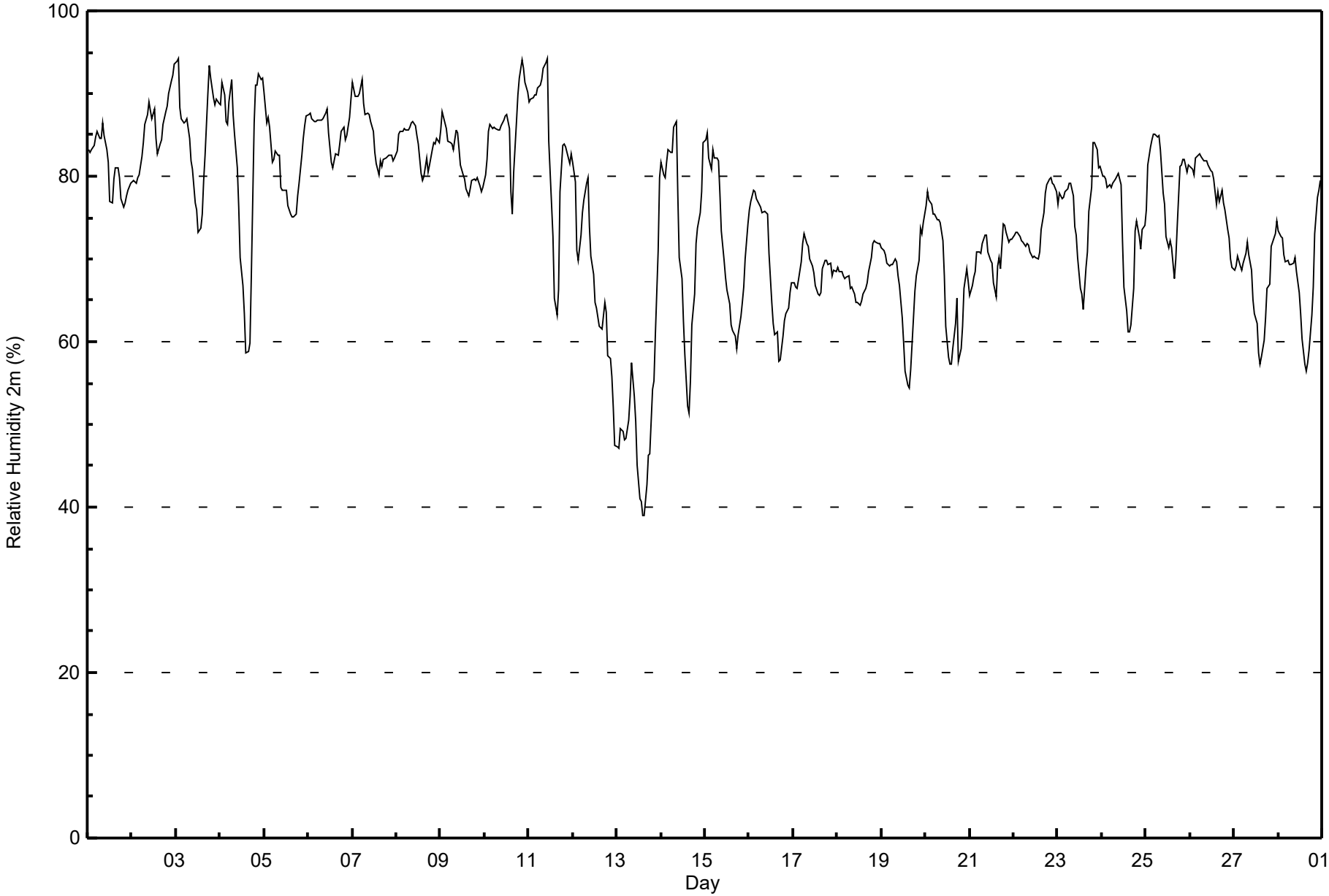
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	83.2	82.9	83.2	83.7	84.7	85.4	84.5	84.6	86.4	84.9	83.3	81.8	77.0	76.9	79.7	81.1	81.1	79.8	77.3	76.3	76.8	77.6	78.4	79.2	81.2	86.4
2-Feb	79.4	79.4	79.1	79.8	80.2	82.4	84.1	86.3	87.5	88.9	88.0	86.9	88.1	84.6	82.7	83.9	84.4	86.3	87.8	88.4	90.0	91.6	92.2	93.6	85.6	93.6
3-Feb	93.9	94.3	88.4	86.9	86.5	86.6	87.0	84.6	81.9	80.9	76.8	75.9	73.2	73.8	75.5	79.5	82.6	90.0	93.4	91.8	89.5	88.7	89.3	88.9	85.0	94.3
4-Feb	88.7	91.4	89.9	86.7	86.2	89.1	91.8	87.4	85.1	81.1	76.3	70.2	66.8	63.4	58.7	58.9	59.8	68.1	86.4	90.9	91.0	92.4	91.7	91.8	81.0	92.4
5-Feb	90.3	86.5	87.1	86.0	81.7	82.0	83.0	82.5	82.5	78.6	78.2	78.2	78.3	76.5	75.4	75.0	75.1	75.5	77.6	79.2	82.6	84.6	86.1	87.2	81.2	90.3
6-Feb	87.5	87.6	87.0	86.6	86.6	86.8	86.7	86.7	86.9	87.7	88.2	85.3	81.7	81.1	81.9	82.7	82.5	84.0	85.5	86.0	84.5	84.9	87.2	89.3	85.6	89.3
7-Feb	91.3	89.7	89.6	89.6	90.0	91.6	88.8	87.4	87.6	87.4	86.6	85.4	82.9	81.6	80.2	81.9	81.2	82.0	82.2	82.4	82.6	82.5	81.9	82.3	85.4	91.6
8-Feb	83.0	85.0	85.4	85.4	85.7	85.6	85.6	86.0	86.4	86.5	86.1	84.9	84.0	80.3	79.4	79.9	82.2	80.5	81.4	83.2	84.1	83.9	84.6	84.1	83.9	86.5
9-Feb	85.6	87.8	86.5	85.8	84.2	84.1	83.9	83.1	85.6	85.3	83.4	81.3	80.2	79.7	78.4	77.7	78.5	79.5	79.7	79.4	79.8	78.8	78.1	78.7	81.9	87.8
10-Feb	80.1	82.0	85.4	86.3	85.8	85.9	85.8	85.6	85.6	86.0	86.8	87.2	87.4	85.7	78.2	75.4	80.5	86.7	89.9	91.9	94.1	93.0	91.3	90.2	86.1	94.1
11-Feb	89.0	89.4	89.5	89.9	89.8	90.7	91.1	91.7	93.1	93.7	94.3	84.2	76.7	72.7	65.2	63.2	66.2	78.1	83.7	83.9	83.6	82.8	81.5	82.8	83.6	94.3
12-Feb	81.6	79.4	70.9	69.8	72.9	75.6	77.1	79.2	79.8	73.9	70.3	68.1	64.7	64.1	61.9	61.7	61.5	64.7	63.6	58.3	57.9	55.8	52.0	47.4	67.2	81.6
13-Feb	47.2	47.1	49.5	49.2	48.2	48.3	50.5	53.5	57.5	53.3	50.4	45.1	41.1	40.6	39.1	39.0	42.7	46.2	46.5	54.3	55.3	60.9	71.0	79.8	50.7	79.8
14-Feb	81.8	80.2	79.9	81.7	83.3	82.8	82.9	85.9	86.6	77.7	70.2	67.6	62.5	58.4	52.1	51.4	55.3	62.0	65.8	71.8	73.7	75.7	78.2	84.0	73.0	86.6
15-Feb	84.4	85.2	82.2	80.9	83.1	82.1	82.2	81.9	78.0	73.4	69.8	67.8	66.3	64.5	62.1	61.3	60.6	59.2	60.8	63.1	64.7	66.6	69.9	74.3	71.9	85.2
16-Feb	76.0	76.9	78.4	78.1	77.3	76.5	76.3	75.7	75.7	75.6	75.4	70.7	64.7	62.2	60.9	61.2	57.6	57.7	60.6	62.6	63.5	64.0	65.9	67.2	69.2	78.4
17-Feb	67.1	66.7	66.5	67.5	69.7	71.8	73.1	71.9	71.5	70.0	69.1	68.3	66.8	65.8	65.6	65.9	68.9	69.9	69.8	69.4	69.5	68.0	68.6	68.5	68.7	73.1
18-Feb	69.0	68.5	68.5	67.9	67.6	67.8	67.9	66.4	66.6	65.8	64.7	64.8	64.4	64.9	65.8	66.5	67.2	68.5	70.1	71.8	72.1	72.1	71.8	71.9	68.0	72.1
19-Feb	71.4	71.0	70.5	69.4	69.2	69.3	69.3	70.0	69.6	68.0	66.9	62.8	59.9	56.4	54.7	54.4	56.6	62.9	66.1	68.0	69.9	73.7	73.0	74.3	66.6	74.3
20-Feb	76.5	78.1	77.1	76.7	75.5	75.4	74.7	74.7	74.4	72.2	67.9	61.9	58.2	57.2	57.4	59.1	62.1	65.2	57.7	59.1	61.8	66.4	68.8	67.4	67.7	78.1
21-Feb	65.6	66.9	67.8	68.6	70.8	70.9	70.6	71.9	72.9	72.8	70.9	69.8	69.5	67.1	65.4	69.2	70.2	68.7	74.3	74.1	73.2	72.1	72.4	72.4	70.3	74.3
22-Feb	72.9	73.2	73.2	72.8	72.1	72.0	71.4	71.9	71.7	70.9	70.1	70.4	70.2	70.0	70.9	73.5	75.7	77.9	79.0	79.7	79.8	79.2	79.0	78.1	74.0	79.8
23-Feb	76.6	77.9	77.2	77.5	78.1	78.4	79.2	79.2	77.7	74.0	72.8	70.3	66.4	65.8	63.9	69.0	70.9	75.7	78.7	84.1	84.0	83.2	81.0	81.2	75.9	84.1
24-Feb	80.0	80.0	79.7	78.6	79.1	78.6	79.1	79.7	80.0	80.3	78.9	72.2	66.6	63.7	61.3	61.2	62.0	66.4	73.3	74.6	72.8	71.1	73.6	74.1	73.6	80.3
25-Feb	75.9	81.3	83.5	84.5	85.2	85.0	84.8	84.9	83.3	78.0	76.6	72.7	71.3	72.3	71.3	67.7	69.9	73.9	81.2	81.4	82.1	82.0	80.5	81.3	78.8	85.2
26-Feb	81.2	80.8	80.2	82.2	82.6	82.6	82.3	81.8	81.9	81.8	81.3	80.6	80.5	79.7	76.6	78.1	77.0	78.4	76.8	75.9	73.5	72.5	70.0	69.0	78.6	82.6
27-Feb	68.7	69.2	70.3	69.2	68.7	69.4	70.6	72.0	70.4	68.6	65.1	63.4	62.3	58.7	57.3	58.1	60.2	62.8	66.5	67.0	71.5	72.1	73.0	74.5	67.1	74.5
28-Feb	73.3	72.7	72.5	70.5	69.7	69.8	69.3	69.4	69.6	70.2	68.4	66.0	63.4	60.3	57.3	56.4	57.4	59.1	63.1	66.6	73.0	77.4	78.3	79.4	68.1	79.4
	78.6	79.0	78.5	78.3	78.4	78.8	79.1	79.1	79.1	77.4	75.6	73.0	70.5	68.9	67.1	67.6	68.9	71.8	74.2	75.6	76.3	76.9	77.5	78.3	Diurnal Average	
	93.9	94.3	89.9	89.9	90.0	91.6	91.8	91.7	93.1	93.7	94.3	87.2	88.1	85.7	82.7	83.9	84.4	90.0	93.4	91.9	94.1	93.0	92.2	93.6	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Mildred Lake - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Mildred Lake - February 2026

Maximum Speed: 32 km/h on Feb 26 20:00

Maximum Daily Speed Average: 23.7 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 7 01:00

Minimum Daily Speed Average: 0.3 km/h on Feb 14

Maximum Diurnal Speed Average: 5.0 km/h at hour 19

Minimum Diurnal Speed Average: 2.5 km/h at hour 10

Monthly Average Velocity: 3.7 km/h 18.5 deg

Percentiles: P_1 = 1 P_{10} = 4 Q_1 = 6 Median = 9 Q_3 = 13 P_{90} = 18 P_{99} = 29

Hours in Service:	672
Hours of Data:	670
Hours of Missing Data:	2
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ENE7	ENE8	E9	ESE8	ESE8	ESE8	SE7	ESE7	SE9	SE14	SE16	SE16	SE16	SE15	SE16	SE18	SE16	SE15	SE20	SE20	SE21	SE20	SE17	SSE14	SE12.8	SE21
2-Feb	SSE14	SSE12	SSE13	SE13	SE11	SE12	SE12	SE10	SSE8	SSE7	SSE9	SE9	SSE9	SSE9	SSE9	SSE8	SE5	ESE2	N5	N5	N6	N8	N7	N7	SE5.9	SSE14
3-Feb	N8	NNE9	NNE9	N9	N5	NNE6	NE4	NNE8	NNE7	NE6	NNE6	N4	NNE3	ESE5	SSE5	SE5	SSE5	SSE8	SSE7	SSE7	SE13	SE14	SSE15	SSE16	E3.2	SSE16
4-Feb	SSE13	SE18	SSE17	SSE16	SSE10	SSE9	SSW10	SW9	SW11	SW14	WSW14	W18	W16	W12	W13	W11	W14	NNW16	N20	N15	N16	NNE12	NNE12	N14	W3.4	N20
5-Feb	N16	N18	N20	N18	NNE20	N18	N18	N17	N16	N14	NNE12	NNE10	N10	N8	NNE6	NNE6	NE7	NE6	NNE4	NNE8	NNE8	NNE7	N7	NNE7	N11.4	NNE20
6-Feb	N8	N7	N6	N5	N5	N5	N5	NNW5	N5	N3	NE2	ESE8	SE13	SE16	SE13	SE12	SE10	ESE7	ESE4	SE6	SE6	S7	SE2	SE2	ESE2.8	SE16
7-Feb	E0	N6	N6	N4	N7	NNE10	NNE11	N15	N16	N13	N13	N12	NNE11	NNE10	NNE10	N11	N13	N11	N10	N11	N11	N12	N9	N11	N10.1	N16
8-Feb	N12	N9	N7	NNW8	NNW9	NNW9	NNW7	NNW9	NNW5	NNW7	NNW10	NNW12	NNW12	N12	N12	N9	NNE9	NNE7	NNE5	NNE6	N7	NNE7	NNE5	NE3	N7.8	N12
9-Feb	NNE2	NNE3	NNE4	NE4	NE5	NNE4	N7	NNE5	NNE7	N8	N9	N11	N11	N12	NNE10	N12	N14	N12	N14	N14	N13	N11	N11	N11	N8.8	N14
10-Feb	N11	N9	N8	N8	N7	NNW6	NNW4	NNW4	NNW3	NNW3	NW1	S2	SSW4	S5	SSW5	SSE9	SSE7	SSE5	SSE9	S7	S9	SSE9	S4	SW2	S0.6	N11
11-Feb	S4	E3	SE7	SSE9	SE3	E4	ESE5	SSE7	SE7	SSE5	SE9	SSE9	SE12	SE11	S7	SSW9	S6	S5	SE4	S5	SSE8	SE4	E3	SSE4	SSE5.7	SE12
12-Feb	SSE7	S8	SW8	WSW9	WSW8	WSW7	WSW8	SW5	S7	SSW9	SSE11	SE12	SSE12	SE12	S7	SSE9	S10	SSE12	SSE15	S17	S11	SSW10	SW13	WSW14	S8.3	S17
13-Feb	SW13	SW15	WSW17	WSW19	WSW19	W21	W20	W14	SSW11	SW14	WSW13	WSW11	SW12	SW8	SW7	SW4	SSW4	WSW4	SSW4	SSW6	W5	NW3	NNW5	SSW2	WSW9.6	W21
14-Feb	S5	SSW5	SSE4	SE4	S7	S8	S7	S3	SSE3	SSW4	ENE3	ENE4	N3	ESE2	SSE4	ENE1	ESE2	NNW10	N10	NNW10	NW6	N3	N9	N9	NNE0.3	NNW10
15-Feb	NNW7	N15	N13	N15	N13	N12	N11	N10	N12	NNE11	NNE12	NNE11	NNE10	NNE8	NNE7	NNW7	N6	NNE9	NNE8	NNE7	NNE8	NNE6	N6	NNW5	N9.4	N15
16-Feb	NNW7	N6	N4	N4	NNE6	NNE0	NNE5	N3	NNW4	NNW5	N6	NNW8	NW10	NNW12	N16	N13	N14	N13	N17	N18	N19	N20	N18	N20	N10.1	N20
17-Feb	N19	NNE16	NNE15	NNE11	N17	N20	N23	NNE19	N21	N23	NNE22	N23	N30	N28	N29	N29	N28	N29	N28	N28	N26	N29	N29	N28	N23.7	N30
18-Feb	N29	N28	N30	N26	N26	N25	N24	N26	N24	N23	N24	N21	N21	N20	N18	N16	N15	N13	NNW10	NW7	NW5	N3	S4	SSW5	N17.5	N30
19-Feb	SSW5	SSW4	S5	S4	S3	S7	S7	SSE8	SSE9	SSE9	SE12	SE16	SE14	SE16	SE16	SE16	SE12	SSE8	SSE10	SSE8	SSE6	S5	SSE9	S7	SSE8.5	SE16
20-Feb	S7	SSE7	S8	SSE7	S8	S5	SSE5	S6	S4	S6	SE8	SE7	ESE3	NNE2	NW5	NW11	NNW10	N10	N14	N15	N15	N12	N13	N13	NNE1.8	N15
21-Feb	N13	N11	N12	N12	N10	N5	NNE6	N4	NNW7	N8	NW5	NW9	NNW13	N11	NNE9	NNE12	NNE12	NNE12	N15	N15	N17	N18	N18	N15	N10.9	N18
22-Feb	N13	N13	N14	N16	N16	N15	N16	N13	N12	N12	N11	N10	N11	N11	NNW11	NNW10	N10	N9	N9	N8	ENE5	ESE9	ESE12	SE11	N9.2	N16
23-Feb	SE12	SE11	SE13	SSE9	SSE8	SE5	SSE4	S5	SE4	S6	SSW5	N1	NNW1	NNW4	SE1	SE3	SSE4	SSE6	SSE6	NE2	E3	S0	NW2	NNW2	SSE3.7	SE13
24-Feb	SSW3	S3	SE4	S4	ESE4	SSE5	SSE4	SSE5	S4	SSE6	SSE7	SE9	SE11	SE10	SE11	ESE11	ESE11	ESE9	ESE7	SE8	SE10	SSE10	ESE6	ESE5	SE6.5	SE11
25-Feb	ESE5	E5	E3	N3	NNW6	N7	NNW5	UO	SSW4	SSW5	SE9	SE12	SE12	SE9	SE8	SE6	E5	N7	N11	N12	N16	N17	N17	N17	NE3.7	N17
26-Feb	N17	N17	N18	N15	N13	N14	N16	N18	N18	N20	N23	N24	N25	N27	N24	N22	N27	N25	N30	N32	N31	N28	N25	N23	N22.1	N32
27-Feb	N22	N17	N17	N14	N15	N12	N9	N8	N8	N9	N9	NW12	NW12	NW10	NW10	NW12	NW9	NNW5	NNE4	NNE4	NNE5	N5	N7	UO	N9.5	N22
28-Feb	SW1	SSW6	S3	S5	S4	S5	SSW7	SSW7	SSW7	S7	SE10	SE13	SE14	SE15	SE18	SE17	SSE13	SSE11	SSE8	SSE8	SSE6	SSE6	SSE8	SSE6	SSE7.9	SE18
	NNE4.1	NNE4.0	NNE3.7	NNE3.4	N3.9	N3.9	N3.7	N3.7	N3.2	N2.5	NNE2.8	NNE3.0	NNE3.0	NE3.2	NE2.7	NE2.7	NNE3.5	NNE4.5	NNE5.0	NNE4.9	NNE4.9	NNE4.7	NNE4.7	NNE4.4	Diurnal Average	
	N29	N28	N30	N26	N26	N25	N24	N26	N24	N23	N24	N24	N30	N28	N29	N29	N28	N29	N30	N32	N31	N29	N29	N28	Diurnal Maximum	

UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 7 km/h on Feb 4 18:00

Minimum Value: 1 km/h on Feb 27 23:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 7

Hours in Service:	672
Hours of Data:	670
Hours of Missing Data:	2
Hours of Calibration:	0
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	2	2	2	1	1	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2-Feb	3	3	3	2	2	2	2	2	2	2	3	2	1	2	2	2	2	1	1	1	1	2	1	1	3
3-Feb	1	2	2	2	2	2	1	2	2	2	1	1	2	2	2	2	2	2	2	1	3	3	3	3	3
4-Feb	3	3	4	3	3	3	2	3	4	5	4	6	4	3	4	4	4	7	5	3	3	3	3	3	7
5-Feb	3	4	4	4	6	4	5	4	3	4	3	3	3	2	1	2	2	2	1	2	2	2	1	1	6
6-Feb	1	1	1	1	1	1	1	1	1	1	1	3	3	3	2	2	2	1	2	1	2	1	1	2	3
7-Feb	2	1	1	1	2	3	5	3	4	4	3	3	3	3	2	2	2	2	2	2	2	2	2	2	5
8-Feb	2	1	1	1	1	1	1	2	1	1	2	2	2	2	2	2	2	2	1	2	1	2	2	1	2
9-Feb	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	2	2	3	2	2	2	2	2	3
10-Feb	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	2	2	2	1	1	2	1	2	1	2
11-Feb	2	1	1	1	2	2	1	1	2	2	2	2	2	2	2	2	1	1	1	2	1	1	1	3	3
12-Feb	1	2	3	3	4	3	2	2	2	3	2	2	3	3	3	2	2	2	3	3	4	3	4	4	4
13-Feb	4	5	5	6	6	7	6	4	3	4	4	3	4	3	3	2	2	2	1	1	2	2	1	2	7
14-Feb	2	1	1	2	2	1	2	2	2	2	2	1	3	2	1	1	1	4	1	1	3	1	5	6	6
15-Feb	6	3	4	3	3	3	2	2	3	3	3	3	2	2	2	1	2	2	2	2	2	1	1	1	6
16-Feb	1	2	1	2	2	1	1	1	1	1	1	1	1	2	2	2	3	3	3	3	4	4	3	4	4
17-Feb	4	4	4	4	4	5	5	4	5	5	5	5	6	7	6	7	6	6	6	6	6	6	6	7	7
18-Feb	6	6	7	6	6	6	7	6	6	5	5	5	4	4	4	3	3	3	2	1	1	1	1	1	7
19-Feb	1	1	2	1	1	2	2	2	1	2	2	2	2	2	2	2	2	2	2	1	2	1	1	2	2
20-Feb	1	2	2	1	2	2	1	1	1	2	1	1	2	1	3	2	2	1	3	3	3	2	2	3	3
21-Feb	2	2	2	2	2	2	2	1	1	1	2	3	2	3	3	3	3	3	3	4	4	4	4	3	4
22-Feb	3	2	2	3	3	3	3	2	2	3	2	2	2	2	1	1	2	1	1	1	2	2	2	2	3
23-Feb	2	2	2	2	1	1	1	1	2	1	2	1	1	2	2	2	1	1	3	1	1	1	2	1	3
24-Feb	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	2	1	2	1	2	2	1	2
25-Feb	2	1	2	1	1	1	1	UO	1	1	2	2	2	1	1	2	1	4	2	2	3	3	3	4	4
26-Feb	3	4	3	3	3	3	3	3	4	4	4	5	5	6	6	5	6	7	7	7	6	6	5	5	7
27-Feb	6	4	3	4	4	2	2	2	2	2	3	2	2	2	2	2	1	2	1	1	1	1	1	UO	6
28-Feb	2	1	1	2	1	2	1	1	1	2	2	3	2	3	3	3	3	3	2	2	1	1	1	2	3
	6	6	7	6	6	7	7	6	6	5	5	6	6	7	6	7	6	7	7	7	6	6	6	7	
	Diurnal Maximum																								

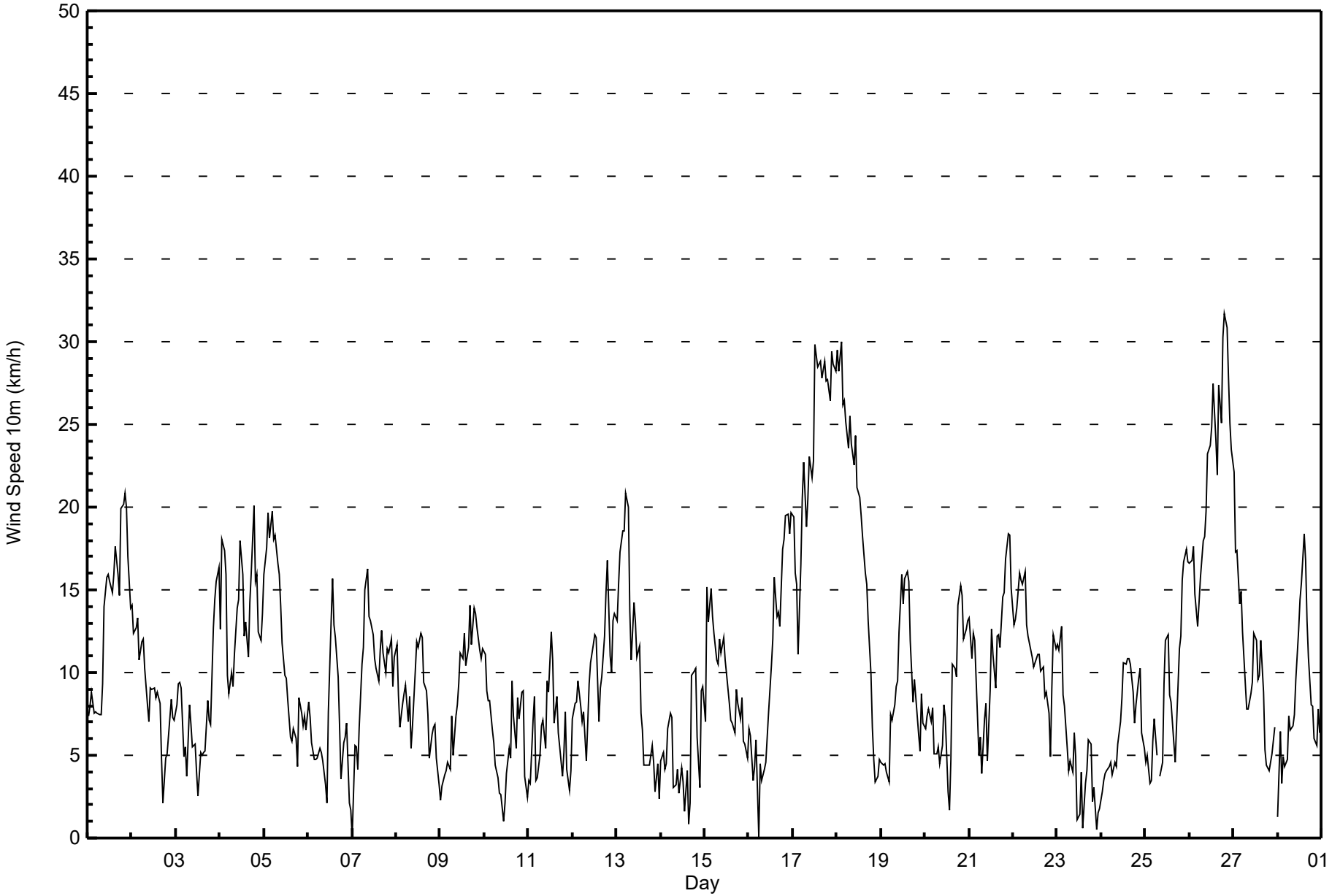
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Mildred Lake - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	157	23.43	23.43
6 - 11	272	40.60	64.03
12 - 19	182	27.16	91.19
20 - 28	48	7.16	98.36
29 - 38	11	1.64	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 670

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Mildred Lake - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	22	15	6	4	8	10	13	15	23	14	4	1	1	0	6	15	157
6 - 11	70	38	3	2	1	12	27	48	22	10	5	5	1	0	8	20	272
12 - 19	91	10	0	0	0	1	38	14	1	0	6	6	6	0	3	6	182
20 - 28	40	2	0	0	0	0	3	1	0	0	0	0	2	0	0	0	48
29 - 38	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	234	65	9	6	9	23	81	78	46	24	15	12	10	0	17	41	670

Total Number of Valid Hours: 670

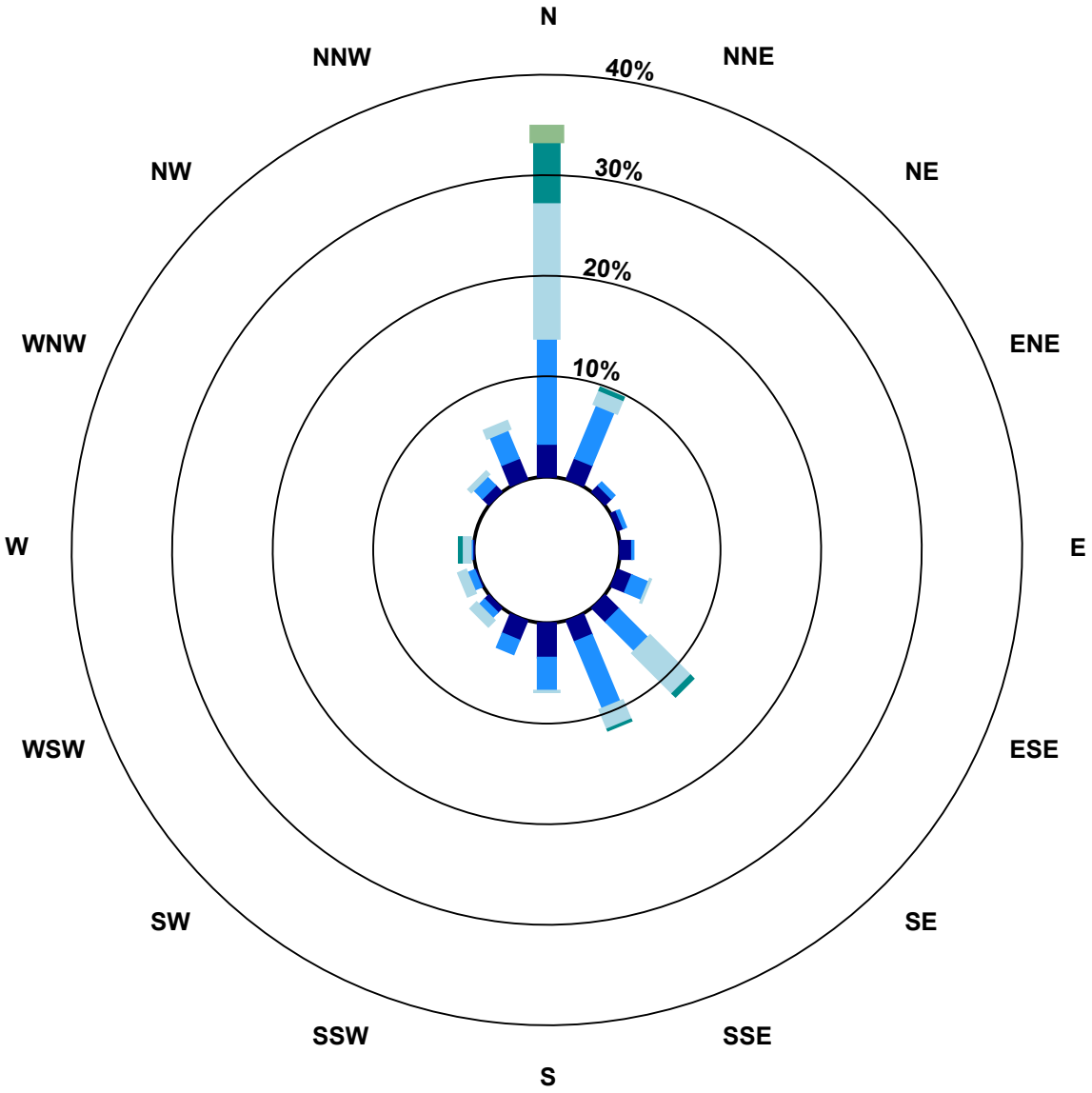
Total Number of Hours: 672

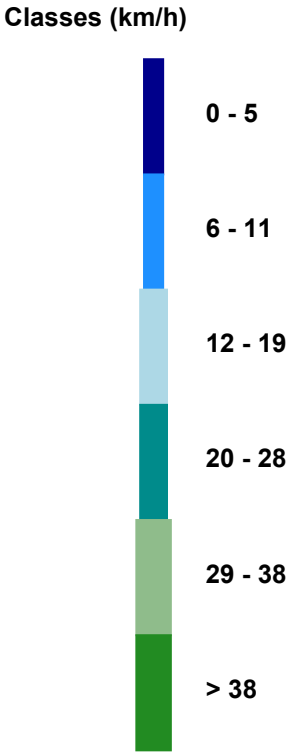
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Mildred Lake





Total Number of Valid Hours: 670

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Mildred Lake - February 2026

Direction of Maximum Speed: 356 deg on Feb 26 20:00
Direction of Maximum Daily Speed Average: 8.0 deg on Feb 17

Direction of Minimum Speed: 91 deg on Feb 7 01:00

Direction of Minimum Daily Speed Average: 0.3 deg on Feb 14

Monthly Average Direction: 18.5 deg

Hours in Service:	672
Hours of Data:	670
Hours of Missing Data:	2
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	73	74	96	104	108	116	138	119	128	142	143	146	140	145	139	142	139	129	146	143	145	144	146	150	135.5
2-Feb	154	159	152	138	141	142	146	143	149	151	147	145	151	157	156	148	124	121	9	1	352	10	8	5	138.1
3-Feb	354	16	12	10	9	17	44	30	23	44	18	10	25	119	148	138	148	168	165	168	142	145	147	147	96.3
4-Feb	157	146	158	151	154	153	209	236	233	233	239	261	275	275	275	267	279	343	4	359	0	21	30	9	266.7
5-Feb	4	7	5	9	13	5	4	8	358	6	12	19	1	356	22	28	45	42	31	14	20	24	9	12	10.4
6-Feb	358	355	351	2	354	351	351	347	353	3	35	114	127	143	140	142	135	116	113	134	146	174	145	125	104.6
7-Feb	91	2	354	350	5	30	14	8	6	9	6	2	12	17	16	5	359	5	10	5	5	358	4	358	6.8
8-Feb	358	355	351	334	340	344	334	329	336	343	333	341	348	352	358	9	12	23	30	16	11	24	21	40	354.6
9-Feb	19	18	24	53	56	18	5	30	12	11	6	2	5	357	14	7	355	360	0	3	6	7	1	1	7.1
10-Feb	1	360	354	358	353	347	348	346	343	335	307	176	204	184	195	165	158	167	167	178	179	166	169	232	184.0
11-Feb	191	91	142	153	139	80	119	151	145	148	142	148	138	137	171	198	185	171	143	183	149	140	97	152	149.5
12-Feb	165	183	217	239	238	250	247	224	172	204	160	134	151	146	184	156	178	157	165	172	177	213	227	237	187.1
13-Feb	234	235	242	239	245	260	270	262	209	229	246	238	222	223	225	219	212	243	209	210	260	324	334	213	241.5
14-Feb	185	192	147	146	177	177	183	190	163	201	62	73	5	120	156	57	116	348	352	340	319	352	350	6	22.0
15-Feb	343	6	11	4	4	8	354	357	8	18	16	18	24	14	13	333	355	20	20	27	16	16	0	339	7.8
16-Feb	339	355	1	351	12	23	24	355	338	346	357	335	317	332	349	351	1	4	1	0	1	4	1	2	355.0
17-Feb	6	12	12	17	10	10	10	13	10	11	13	11	6	7	8	9	4	3	6	7	6	7	4	6	8.0
18-Feb	6	6	6	8	6	9	8	7	5	5	4	1	360	360	2	358	358	352	339	324	315	356	173	198	2.4
19-Feb	205	208	184	184	180	190	186	164	158	153	145	134	134	132	134	131	141	157	158	156	166	172	166	173	153.7
20-Feb	169	168	181	161	180	181	161	187	169	178	133	136	103	23	318	321	346	349	3	8	8	356	352	359	12.9
21-Feb	360	355	0	2	2	7	17	2	346	355	318	320	331	6	23	15	13	15	6	9	9	8	7	9	2.7
22-Feb	10	4	4	3	1	359	2	359	356	360	350	354	350	349	335	338	355	357	353	353	70	113	123	131	4.7
23-Feb	137	137	146	149	150	143	161	183	142	172	210	5	341	334	131	139	157	149	159	53	82	178	315	334	148.3
24-Feb	201	180	146	175	120	157	157	166	183	163	152	128	133	133	136	123	118	113	117	137	135	150	120	122	138.1
25-Feb	117	95	81	350	338	353	345	UO	194	194	146	141	135	135	126	127	98	351	355	6	6	5	5	4	38.9
26-Feb	7	8	360	0	354	358	2	2	4	3	1	6	3	9	7	3	1	357	356	356	356	355	356	357	0.6
27-Feb	3	2	0	9	7	7	7	3	9	11	3	318	318	323	318	316	319	337	25	24	14	352	351	UO	352.3
28-Feb	217	201	175	187	187	188	209	201	205	188	145	137	142	141	145	142	150	150	156	153	160	158	153	152	158.9
	12.0	18.6	17.9	15.9	8.9	6.7	358.6	1.9	9.2	7.6	26.5	31.7	27.5	37.6	38.1	36.0	25.6	20.9	19.5	17.0	21.5	23.8	18.7	14.8	
	Diurnal Average																								

UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 91 deg on Feb 7 01:00

Minimum Value: 6 deg on Feb 27 16:00

Percentiles: $P_1 = 7$ $P_{10} = 10$ $Q_1 = 12$ Median = 15 $Q_3 = 20$ $P_{90} = 29$ $P_{99} = 68$

Hours in Service:	672
Hours of Data:	670
Hours of Missing Data:	2
Hours of Calibration:	0
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	14	13	10	18	11	10	13	19	9	10	11	10	12	13	11	11	13	12	10	10	10	10	10	14	19
2-Feb	14	15	13	8	9	8	8	10	15	15	15	15	13	18	14	31	38	49	13	13	12	15	14	14	49
3-Feb	9	22	17	17	18	21	27	20	20	25	19	39	35	26	28	20	29	15	15	15	10	13	11	11	39
4-Feb	17	10	14	13	18	20	14	34	29	27	25	20	16	17	18	20	16	33	16	14	14	22	22	17	34
5-Feb	14	16	16	16	20	16	16	17	13	22	20	22	20	16	27	30	20	27	23	16	18	17	13	15	30
6-Feb	11	11	11	14	11	7	8	9	11	17	30	18	14	11	10	12	14	13	17	13	22	17	46	58	58
7-Feb	91	12	15	17	13	21	20	16	15	18	18	13	20	24	21	14	12	14	14	13	15	14	14	11	91
8-Feb	12	11	22	13	10	9	10	8	15	22	12	11	13	12	13	15	18	19	21	18	15	18	25	22	25
9-Feb	16	24	17	20	22	16	14	27	16	16	15	13	15	12	20	16	11	13	14	14	15	15	12	12	27
10-Feb	12	12	11	11	13	10	16	17	18	15	65	62	28	30	27	14	12	16	9	14	9	8	66	39	66
11-Feb	52	50	10	7	53	38	13	20	14	24	13	13	8	8	23	15	12	11	22	22	16	47	62	59	62
12-Feb	10	10	36	27	43	34	21	48	17	22	23	11	12	11	17	16	16	18	13	12	23	23	27	24	48
13-Feb	25	23	20	22	21	19	16	27	21	23	23	24	26	31	39	35	53	32	23	14	45	63	19	64	64
14-Feb	14	17	27	34	12	12	14	68	42	45	41	34	52	91	16	76	29	20	10	7	17	18	13	32	91
15-Feb	41	16	22	15	15	15	10	12	16	19	19	20	19	17	18	18	32	15	17	24	15	17	17	13	41
16-Feb	6	15	16	24	11	88	15	15	17	16	10	17	7	15	8	11	15	14	15	14	15	16	14	14	88
17-Feb	16	17	17	22	17	17	17	18	18	18	18	19	19	19	19	19	18	18	19	17	18	18	17	19	22
18-Feb	18	17	18	19	18	17	19	17	18	17	16	15	14	14	16	13	12	11	10	16	8	26	15	15	26
19-Feb	18	19	21	26	31	13	20	15	11	14	10	8	9	8	8	7	10	15	12	10	16	25	9	15	31
20-Feb	10	14	14	13	6	13	21	17	17	23	13	17	65	65	20	8	8	9	16	15	16	11	9	12	65
21-Feb	13	11	14	14	15	23	22	18	11	11	25	14	22	19	24	20	18	18	15	15	16	16	16	16	25
22-Feb	16	14	14	14	14	12	14	12	11	11	12	11	11	10	11	11	9	10	9	10	39	12	11	11	39
23-Feb	11	10	11	13	12	24	14	22	25	24	29	58	31	15	82	28	17	11	47	23	17	81	51	20	82
24-Feb	68	13	16	23	8	28	21	24	25	16	17	10	10	14	11	16	9	9	7	11	8	12	10	17	68
25-Feb	27	16	36	15	16	9	12	UO	13	21	14	16	10	14	11	22	20	24	12	14	16	15	15	15	36
26-Feb	16	17	14	13	12	13	13	14	15	16	16	15	17	19	19	18	17	15	16	15	15	12	13	14	19
27-Feb	16	15	15	17	16	14	13	12	16	16	23	8	10	13	9	6	6	18	12	12	12	9	9	UO	23
28-Feb	68	8	37	29	20	16	10	10	13	19	16	10	12	11	9	10	12	10	11	11	10	11	9	11	68
	91	50	37	34	53	88	27	68	42	45	65	62	65	91	82	76	53	49	47	24	45	81	66	64	
	Diurnal Maximum																								

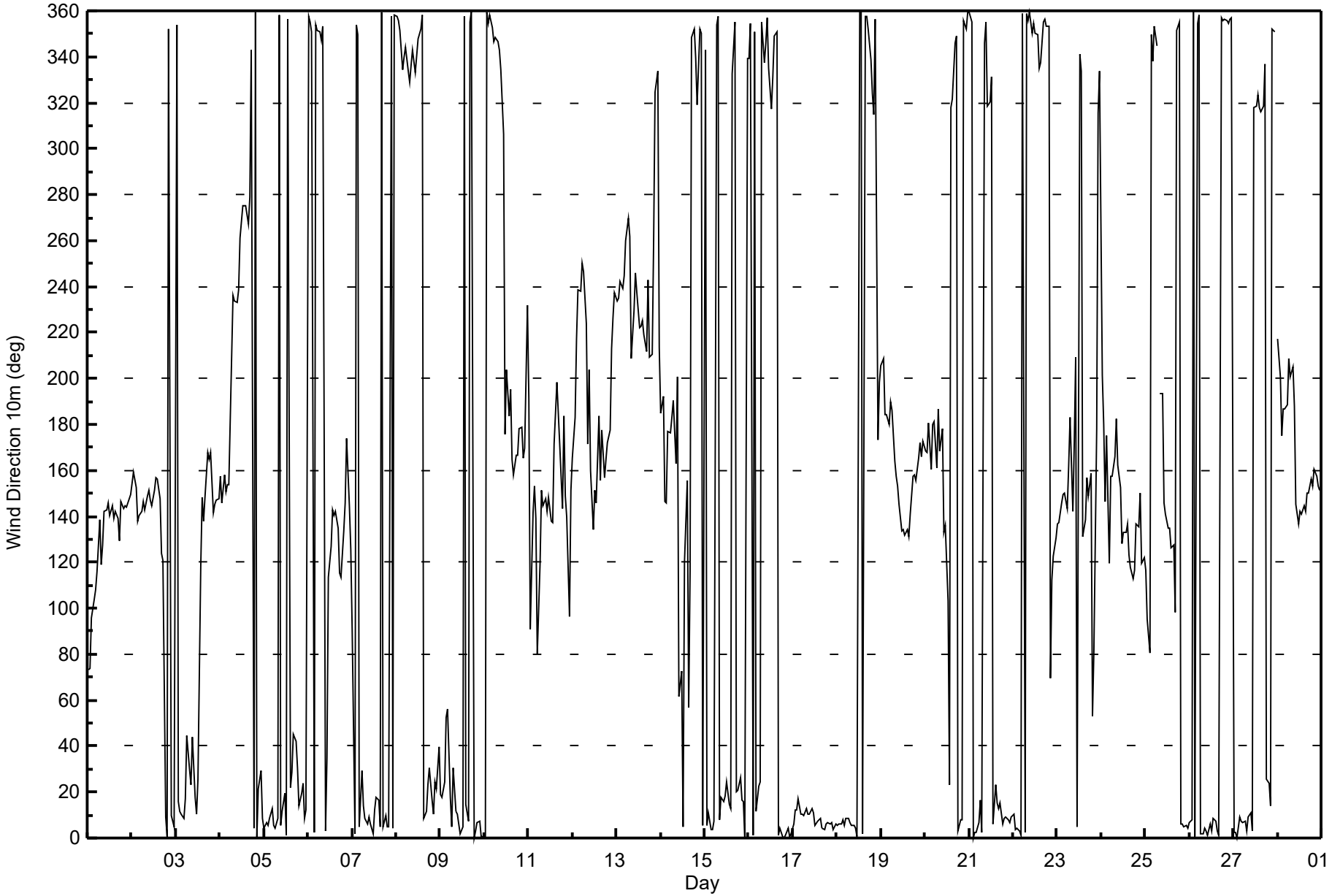
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Mildred Lake - February 2026



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS03
LOWER CAMP METEOROLOGY
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - LOWER CAMP MET TOWER (AMS03)
FEBRUARY 2026

MONTHLY SUMMARY for
AMD SECTION III.B.1(c)

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
Temperature 20 m (C) Average	604	0	68	89.88	9.1	-	2.5	-
Temperature 45 m (C) Average	672	0	0	100	9.8	-	2.8	-
Temperature 100 m (C) Average	672	0	0	100	10.2	-	2.8	-
Temperature 163 m (C) Average	672	0	0	100	10	-	2.6	-
Relative Humidity 20 m (%) Average	604	0	68	89.88	91.1	-	83.7	-
Relative Humidity 45 m (%) Average	672	0	0	100	93.3	-	85.2	-
Relative Humidity 100 m (%) Average	672	0	0	100	94.3	-	85.3	-
Relative Humidity 163 m (%) Average	672	0	0	100	95.4	-	86.3	-
Wind Speed 20 m (km/h) Average	672	0	0	100	27	-	18.0	-
Wind Speed 45 m (km/h) Average	672	0	0	100	38	-	28.0	-
Wind Speed 100 m (km/h) Average	666	0	6	99.11	46	-	32.0	-
Wind Speed 163 m (km/h) Average	657	0	15	97.77	55	-	34.0	-
Wind Direction 20 m (deg) Average	672	0	0	100	-	-	-	-
Wind Direction 45 m (deg) Average	672	0	0	100	-	-	-	-
Wind Direction 100 m (deg) Average	666	0	6	99.11	-	-	-	-
Wind Direction 163 m (deg) Average	657	0	15	97.77	-	-	-	-
Vertical Wind Speed 20 m (km/h) Average	672	0	0	100	0.4	-	0.0	-
Vertical Wind Speed 45 m (km/h) Average	672	0	0	100	1.2	-	0.5	-
Vertical Wind Speed 100 m (km/h) Average	666	0	6	99.11	3.4	-	0.9	-
Vertical Wind Speed 163 m (km/h) Average	657	0	15	97.77	4.3	-	1.7	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - LOWER CAMP MET TOWER (AMS03)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
Temperature 20 m (C) Average	604	-13.14	8.9	-	-36.6	-25	-18.9	-13.7	-7.6	-0.6	9.1
Temperature 45 m (C) Average	672	-14.59	9.9	-	-36.4	-27.9	-22.4	-14.4	-8	-0.3	9.8
Temperature 100 m (C) Average	672	-14.46	9.9	-	-34.5	-27.5	-21.5	-14.6	-7.7	0	10.2
Temperature 163 m (C) Average	672	-14.58	9.9	-	-32.9	-27.9	-21.4	-15	-8.2	-0.1	10
Relative Humidity 20 m (%) Average	604	72.67	10.8	-	38.1	55.9	66.5	75.2	80	85.1	91.1
Relative Humidity 45 m (%) Average	672	72.6	11.1	-	34.3	56.4	66.2	74.2	80.8	85.8	93.3
Relative Humidity 100 m (%) Average	672	73.15	11.5	-	34.6	56.7	66.9	74.2	81.8	85.9	94.3
Relative Humidity 163 m (%) Average	672	72.19	12	-	33.1	55.4	65.4	73.7	82.1	85	95.4
Wind Speed 20 m (km/h) Average	672	9.1	6	-	0	2	5	8	12	17	27
Wind Speed 45 m (km/h) Average	672	13.1	8	-	0	4	7	12	17	25	38
Wind Speed 100 m (km/h) Average	666	15.8	10	-	0	5	8	14	21	30	46
Wind Speed 163 m (km/h) Average	657	17.7	10	-	1	6	10	16	23	33	55
Wind Direction 20 m (deg) Average	672	-	-	-	-	-	-	-	-	-	-
Wind Direction 45 m (deg) Average	672	-	-	-	-	-	-	-	-	-	-
Wind Direction 100 m (deg) Average	666	-	-	-	-	-	-	-	-	-	-
Wind Direction 163 m (deg) Average	657	-	-	-	-	-	-	-	-	-	-
Vertical Wind Speed 20 m (km/h) Average	672	-0.18	0.2	-	-1.2	-0.5	-0.3	-0.1	0	0.1	0.4
Vertical Wind Speed 45 m (km/h) Average	672	0.24	0.2	-	-0.5	0	0.1	0.2	0.4	0.6	1.2
Vertical Wind Speed 100 m (km/h) Average	666	0.13	0.5	-	-0.9	-0.3	-0.1	0	0.2	0.6	3.4
Vertical Wind Speed 163 m (km/h) Average	657	0.4	0.7	-	-0.9	-0.2	0	0.2	0.6	1.3	4.3

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - LOWER CAMP MET TOWER (AMS03)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
Ambient Temperature, Relative Humidity, 20m	16 Feb 2026 00:00	28 Feb 2026 10:00	68	DAS Failure - data not recorded
Vertical Wind Speed, Wind Speed, Wind Direction, 100m	10 Feb 2026 06:00	10 Feb 2026 11:00	6	Flat line in sensor output signal
Vertical Wind Speed, Wind Speed, Wind Direction, 163m	04 Feb 2026 02:00	04 Feb 2026 03:00	2	Flat line in sensor output signal
Vertical Wind Speed, Wind Speed, Wind Direction, 163m	05 Feb 2026 02:00	05 Feb 2026 14:00	13	Flat line in sensor output signal

Wood Buffalo Environmental Association

Summary of Hour Averages

Ambient Temperature 20m (AT20) - C

Lower Camp Met Tower - February 2026

Maximum Value: 9.1 C on Feb 4 16:00

Maximum Daily Average: 2.5 C on Feb 4

Minimum Value: -36.6 C on Feb 28 07:00

Minimum Daily Average: -22.9 C on Feb 22

Maximum Diurnal Average: -10.4 C at hour 18

Minimum Diurnal Average: -15.4 C at hour 5

Monthly Average: -13.14 C

Percentiles: P_1 = -32.0 P_{10} = -25.0 Q_1 = -18.9 Median = -13.7 Q_3 = -7.6 P_{90} = -0.6 P_{99} = 6.1

Hours in Service:	672
Hours of Data:	604
Hours of Missing Data:	68
Hours of Calibration:	0
Percent Operational Time:	89.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.4	-11.5	-11.9	-12.2	-12.3	-12.2	-12.0	-12.0	-11.9	-11.5	-11.1	-10.8	-10.1	-9.1	-9.2	-9.2	-9.1	-9.2	-9.2	-9.5	-9.5	-9.5	-9.4	-9.0	-10.5	-9.0
2-Feb	-8.6	-8.2	-7.9	-7.9	-7.9	-7.7	-7.5	-7.3	-7.2	-6.8	-6.4	-5.6	-5.2	-4.3	-3.5	-3.4	-3.2	-3.2	-3.4	-3.6	-3.7	-3.9	-4.1	-4.4	-5.6	-3.2
3-Feb	-4.5	-5.1	-6.0	-6.3	-6.5	-6.7	-6.8	-7.2	-7.8	-8.2	-7.8	-7.6	-7.1	-6.6	-5.8	-5.1	-4.8	-4.7	-4.2	-3.4	-2.7	-2.1	-1.7	-0.9	-5.4	-0.9
4-Feb	-0.3	0.3	1.4	1.5	1.7	0.6	-0.5	1.0	2.4	4.3	5.6	6.5	7.8	8.8	8.4	9.1	8.0	6.0	0.9	-0.4	-1.7	-3.0	-4.0	-4.9	2.5	9.1
5-Feb	-6.3	-7.5	-8.9	-10.0	-11.3	-12.5	-13.5	-14.4	-14.7	-15.0	-14.8	-14.2	-13.7	-13.2	-12.9	-13.0	-13.3	-13.5	-13.5	-13.7	-14.3	-14.4	-14.5	-14.6	-12.8	-6.3
6-Feb	-14.6	-14.6	-14.6	-14.7	-14.5	-14.4	-14.4	-14.5	-14.5	-13.9	-13.0	-10.8	-9.4	-8.7	-8.1	-7.6	-7.1	-7.0	-7.2	-7.4	-7.7	-8.5	-9.2	-9.7	-11.1	-7.0
7-Feb	-10.0	-10.2	-9.5	-9.2	-9.2	-9.7	-10.9	-11.9	-12.8	-13.5	-13.7	-13.8	-13.8	-13.6	-13.4	-13.6	-13.9	-14.1	-14.3	-14.2	-14.0	-14.0	-13.9	-13.8	-12.5	-9.2
8-Feb	-13.9	-13.7	-13.6	-13.5	-13.6	-13.4	-13.1	-12.9	-12.7	-12.3	-11.8	-11.4	-10.8	-10.8	-11.2	-11.5	-12.0	-12.4	-12.7	-12.9	-12.9	-13.1	-13.2	-13.5	-12.6	-10.8
9-Feb	-13.8	-14.7	-15.1	-15.0	-14.7	-14.5	-14.2	-13.9	-13.7	-13.3	-12.8	-12.4	-12.2	-12.0	-12.1	-12.6	-13.1	-13.6	-13.9	-14.6	-14.9	-15.3	-15.4	-15.5	-13.9	-12.0
10-Feb	-15.7	-15.9	-16.0	-16.1	-16.1	-16.1	-16.2	-16.1	-15.9	-15.2	-14.2	-13.2	-11.7	-9.7	-7.0	-4.9	-4.3	-4.6	-5.1	-7.4	-10.5	-10.2	-10.0	-10.8	-11.8	-4.3
11-Feb	-11.5	-14.1	-12.3	-11.7	-11.8	-11.9	-12.3	-12.3	-12.3	-11.6	-9.9	-7.6	-4.5	-2.5	0.2	2.0	2.1	1.1	0.6	-0.8	-1.6	-1.4	-1.7	-1.4	-6.1	2.1
12-Feb	-1.4	-0.6	-0.8	-1.3	-0.5	-1.5	-1.8	-2.1	-2.8	-3.7	-2.9	-0.4	1.4	2.8	4.7	5.0	5.5	4.8	5.2	4.8	5.4	5.6	6.0	6.1	1.6	6.1
13-Feb	5.4	4.7	3.7	3.2	2.2	1.3	0.6	0.0	-0.1	0.0	0.8	2.1	3.4	4.2	5.0	5.3	4.8	2.6	0.2	-0.9	-1.0	-3.0	-5.1	-6.9	1.4	5.4
14-Feb	-7.7	-8.0	-8.1	-8.3	-9.0	-9.6	-10.5	-11.0	-11.4	-10.4	-7.0	-4.7	-2.1	-0.7	0.0	2.0	0.6	-2.1	-3.4	-4.1	-5.1	-5.4	-6.3	-8.1	-5.8	2.0
15-Feb	-8.5	-10.3	-11.8	-12.7	-13.6	-14.5	-15.1	-15.4	-15.7	-16.1	-16.7	-17.1	-17.3	-16.6	-15.6	-15.3	-15.9	-17.5	-19.1	-20.1	-21.0	-21.7	-23.4	DF	-16.1	-8.5
16-Feb	DF	-26.9	-27.4	-29.1	DF	DF	DF	DF	DF	DF	-24.0	-21.0	-19.8	-18.2	-17.4	-17.2	-17.5	-18.8	-20.0	-21.1	-21.7	-22.3	-23.3	-24.1	--	-17.2
17-Feb	-24.7	-25.0	-25.3	-25.9	-26.4	-27.0	-27.5	-27.8	-27.7	-27.3	-26.7	-26.0	-25.0	-24.8	-25.1	-25.3	DF	DF	DF	DF	DF	DF	DF	DF	--	-24.7
18-Feb	DF	DF	DF	DF	DF	DF	DF	DF	DF	DF	DF	-29.6	-29.3	-29.1	-29.1	-29.0	-29.1	DF	DF	DF	DF	-32.0	-32.8	-33.9	--	-29.0
19-Feb	-34.8	DF	DF	DF	DF	DF	DF	DF	DF	DF	DF	-29.6	-26.3	-24.0	-21.9	-20.4	-19.4	-19.2	-19.7	-21.1	-21.9	-22.2	-23.6	-24.6	--	-19.2
20-Feb	DF	DF	-27.3	-28.2	-28.7	DF	DF	DF	DF	DF	-27.3	-23.8	-20.3	-17.3	-16.0	-15.0	-13.9	-15.6	-17.5	-18.9	-20.4	-21.9	-22.9	-23.8	--	-13.9
21-Feb	-24.5	-24.9	-25.7	-26.3	-27.1	-26.7	-26.2	-25.6	-24.8	-22.6	-20.4	-18.9	-17.8	-16.6	-16.2	-16.1	-16.5	-17.1	-18.3	-20.1	-21.3	-22.6	-23.7	-24.3	-21.8	-16.1
22-Feb	-25.0	-25.2	-25.3	-25.6	-25.8	-26.2	-26.5	DF	-26.9	DF	-25.8	-25.1	-23.7	-22.2	-21.1	-20.9	-20.7	-20.7	-20.8	-20.7	-20.2	-18.2	-17.9	-18.2	-22.9	-17.9
23-Feb	-18.3	-18.6	-18.9	-19.2	-19.4	-19.5	-19.7	-20.0	-19.9	-19.5	-18.9	-18.2	-16.9	-16.1	-15.7	-15.0	-15.0	-15.9	-17.3	-19.9	-21.0	-22.7	-23.5	-24.4	-18.9	-15.0
24-Feb	-25.2	-25.3	-25.1	-24.4	-24.6	-24.8	-24.5	-23.9	-24.1	-23.2	-20.8	-17.9	-15.6	-13.8	-13.0	-12.2	-12.0	-12.3	-13.9	-15.5	-16.1	-16.4	-15.9	-15.3	-19.0	-12.0
25-Feb	-15.0	-15.1	-16.0	-16.6	-16.9	-17.0	-16.4	-16.2	-15.7	-14.3	-13.3	-11.9	-10.1	-9.3	-7.9	-6.6	-6.1	-6.1	DF	-7.4	-8.2	-9.8	-11.2	-12.0	-12.1	-6.1
26-Feb	-13.3	-14.5	-15.2	-16.1	-16.4	-16.3	-16.6	-16.7	-16.5	-16.5	-16.3	-16.0	-15.2	-15.0	-16.3	-16.6	-17.7	-18.3	-18.5	-19.0	-20.0	-21.0	-22.0	-22.6	-17.2	-13.3
27-Feb	-23.6	-24.3	-24.9	-26.0	-27.1	DF	DF	DF	DF	-28.4	-26.9	-25.5	-24.7	-23.8	-23.4	-23.5	-22.9	-24.6	DF	DF	DF	DF	DF	DF	--	-22.9
28-Feb	DF	DF	DF	DF	-35.6	-36.4	-36.6	DF	DF	DF	-31.3	-28.0	-24.3	-20.3	-16.9	-14.6	-13.8	-13.8	-14.4	-15.4	-16.5	-16.6	-16.9	-17.7	--	-13.8
	-13.6	-13.7	-14.5	-14.9	-15.4	-14.6	-14.9	-13.3	-13.9	-13.6	-14.9	-14.7	-13.4	-12.2	-11.5	-10.9	-10.4	-10.4	-10.8	-11.5	-12.1	-13.3	-13.8	-13.9	Diurnal Average	
	5.4	4.7	3.7	3.2	2.2	1.3	0.6	1.0	2.4	4.3	5.6	6.5	7.8	8.8	8.4	9.1	8.0	6.0	5.2	4.8	5.4	5.6	6.0	6.1	Diurnal Maximum	

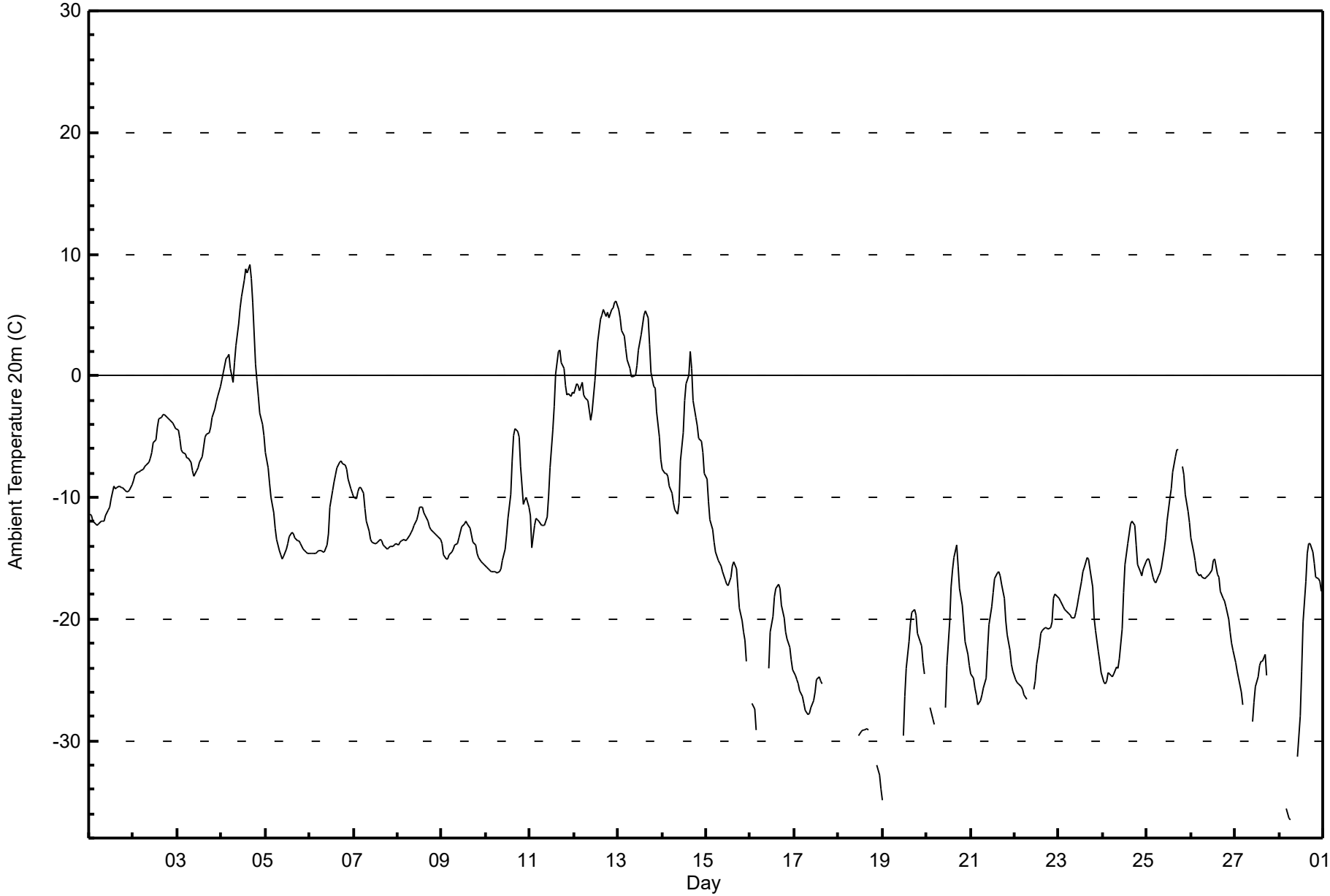
DF - DAS Failure

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 20m (AT20) - C

Lower Camp Met Tower - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	135	22.35	22.35
-20 - 0	416	68.87	91.23
0 - 10	53	8.77	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 604

Total Number of Hours: 672

Maximum Value: 9.8 C on Feb 4 16:00

Maximum Daily Average: 2.8 C on Feb 4

Minimum Value: -36.4 C on Feb 28 08:00

Minimum Daily Average: -29.9 C on Feb 18

Maximum Diurnal Average: -10.9 C at hour 17

Minimum Diurnal Average: -17.6 C at hour 8

Monthly Average: -14.59 C

Percentiles: P_1 = -35.2 P_{10} = -27.9 Q_1 = -22.4 Median = -14.4 Q_3 = -8.0 P_{90} = -0.3 P_{99} = 6.4

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

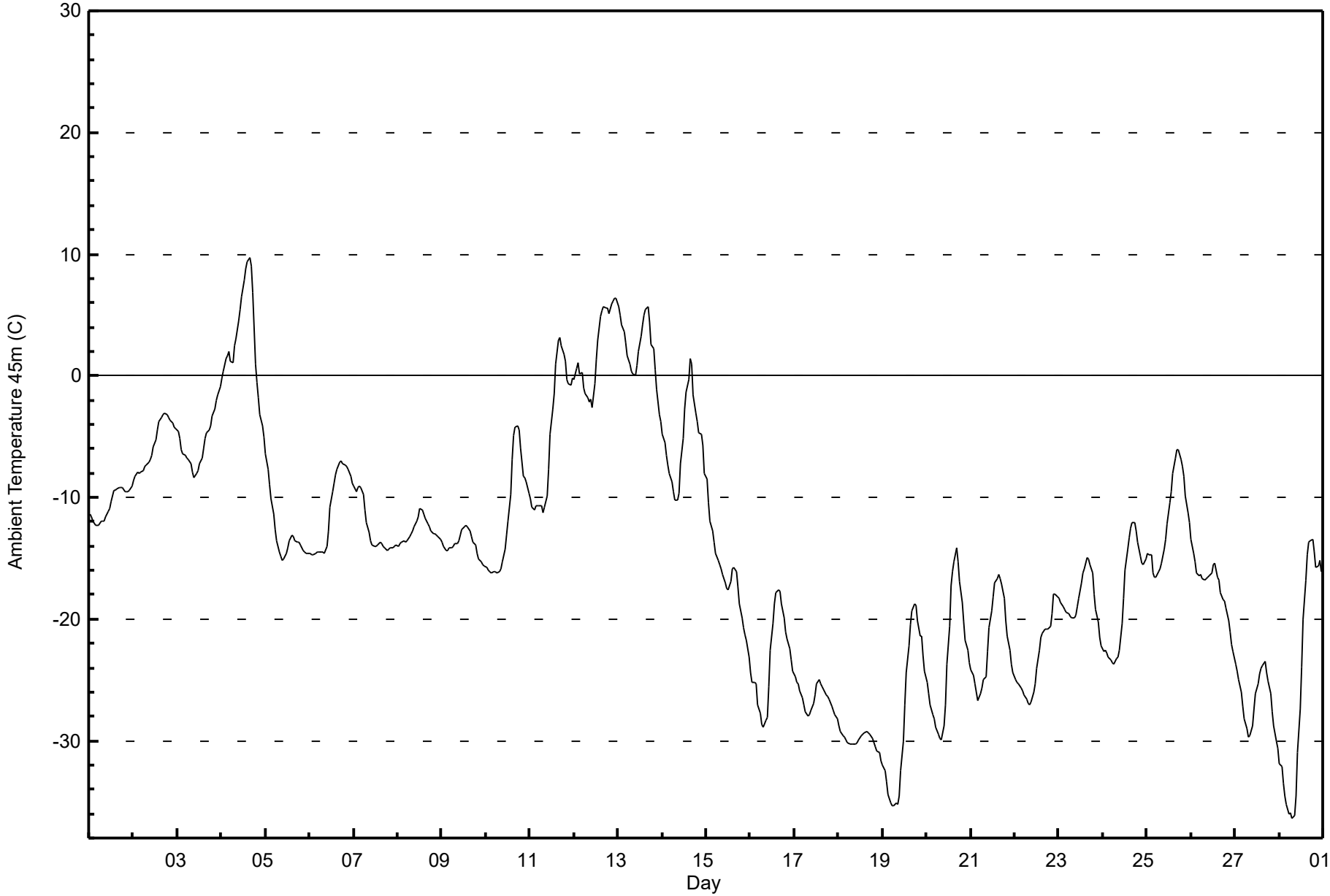
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.4	-11.6	-12.0	-12.2	-12.3	-12.3	-12.0	-12.0	-12.0	-11.6	-11.2	-10.9	-10.3	-9.5	-9.4	-9.3	-9.2	-9.2	-9.2	-9.5	-9.6	-9.6	-9.4	-9.1	-10.6	-9.1
2-Feb	-8.6	-8.2	-8.0	-8.0	-7.9	-7.7	-7.4	-7.3	-7.2	-6.9	-6.6	-5.8	-5.3	-4.4	-3.7	-3.4	-3.1	-3.0	-3.2	-3.4	-3.6	-3.9	-4.2	-4.4	-5.6	-3.0
3-Feb	-4.5	-5.2	-6.1	-6.4	-6.5	-6.7	-6.8	-7.2	-7.9	-8.4	-8.1	-7.8	-7.3	-6.7	-5.9	-5.2	-4.7	-4.5	-4.1	-3.3	-2.7	-2.1	-1.6	-0.9	-5.4	-0.9
4-Feb	-0.2	0.3	1.4	1.7	2.0	1.2	1.1	2.5	3.0	4.6	5.5	6.5	7.8	8.8	9.3	9.8	9.0	6.9	0.9	-0.5	-1.8	-3.2	-4.1	-5.1	2.8	9.8
5-Feb	-6.5	-7.7	-9.0	-10.2	-11.4	-12.6	-13.6	-14.5	-14.9	-15.2	-15.1	-14.6	-14.1	-13.6	-13.1	-13.2	-13.5	-13.7	-13.6	-13.9	-14.4	-14.5	-14.6	-14.6	-13.0	-6.5
6-Feb	-14.6	-14.7	-14.7	-14.6	-14.5	-14.5	-14.5	-14.5	-14.5	-14.0	-12.8	-10.8	-9.5	-8.8	-8.2	-7.7	-7.1	-7.0	-7.2	-7.4	-7.5	-7.7	-8.3	-8.9	-11.0	-7.0
7-Feb	-9.1	-9.5	-9.2	-9.1	-9.1	-9.8	-11.0	-12.1	-12.9	-13.6	-13.9	-14.0	-14.1	-13.9	-13.7	-13.8	-14.0	-14.2	-14.4	-14.3	-14.1	-14.1	-14.0	-13.9	-12.6	-9.1
8-Feb	-14.0	-13.8	-13.7	-13.6	-13.6	-13.5	-13.2	-12.9	-12.7	-12.4	-12.0	-11.6	-10.9	-11.1	-11.4	-11.7	-12.1	-12.4	-12.8	-12.9	-13.0	-13.2	-13.3	-13.5	-12.7	-10.9
9-Feb	-13.7	-14.1	-14.4	-14.3	-14.1	-14.1	-14.0	-13.8	-13.8	-13.5	-13.1	-12.7	-12.5	-12.3	-12.4	-12.7	-13.2	-13.7	-14.0	-14.6	-15.0	-15.4	-15.5	-15.6	-13.9	-12.3
10-Feb	-15.8	-15.9	-16.1	-16.2	-16.1	-16.2	-16.2	-16.1	-15.9	-15.2	-14.3	-13.1	-12.0	-9.8	-6.9	-4.9	-4.2	-4.1	-4.4	-5.9	-8.2	-8.4	-8.8	-9.6	-11.4	-4.1
11-Feb	-10.2	-10.8	-11.0	-10.7	-10.7	-10.6	-10.7	-11.2	-10.8	-9.8	-7.7	-4.9	-2.8	-1.5	0.9	2.9	3.1	2.4	1.8	1.2	-0.3	-0.7	-0.7	-0.2	-4.7	3.1
12-Feb	-0.3	0.6	1.1	0.2	0.3	-1.0	-1.5	-1.8	-2.2	-1.9	-2.6	-0.7	1.3	2.9	4.8	5.3	5.7	5.6	5.6	5.1	5.9	6.2	6.4	6.4	2.1	6.4
13-Feb	5.7	5.0	4.1	3.6	2.6	1.6	0.9	0.3	0.2	0.1	0.8	2.0	3.3	4.2	5.0	5.5	5.7	4.4	2.6	2.2	0.4	-1.1	-3.2	-3.7	2.2	5.7
14-Feb	-4.8	-5.5	-6.5	-7.4	-8.1	-8.7	-9.5	-10.2	-10.3	-9.6	-7.2	-5.1	-2.7	-1.4	-0.3	1.4	1.0	-1.6	-3.1	-3.7	-4.7	-4.8	-5.7	-8.0	-5.3	1.4
15-Feb	-8.5	-10.5	-11.9	-12.8	-13.7	-14.6	-15.2	-15.5	-15.8	-16.3	-17.0	-17.5	-17.6	-16.9	-15.9	-15.7	-16.1	-17.3	-18.8	-19.9	-20.7	-21.3	-21.7	-23.1	-16.4	-8.5
16-Feb	-24.4	-25.2	-25.2	-25.3	-27.0	-27.7	-28.7	-28.9	-28.3	-28.1	-25.6	-22.5	-20.4	-18.8	-17.8	-17.6	-17.7	-18.7	-19.9	-21.1	-21.7	-22.4	-23.4	-24.2	-23.4	-17.6
17-Feb	-24.8	-25.2	-25.4	-25.9	-26.5	-27.0	-27.6	-27.9	-27.8	-27.5	-27.0	-26.3	-25.3	-25.0	-25.3	-25.5	-25.8	-26.2	-26.4	-26.6	-27.1	-27.5	-27.9	-28.2	-26.5	-24.8
18-Feb	-28.8	-29.2	-29.6	-29.7	-29.9	-30.1	-30.3	-30.3	-30.3	-30.3	-30.1	-30.0	-29.6	-29.4	-29.3	-29.2	-29.3	-29.5	-29.8	-30.2	-30.5	-30.8	-31.0	-31.6	-29.9	-28.8
19-Feb	-32.1	-32.5	-33.4	-34.4	-35.1	-35.4	-35.3	-35.1	-35.2	-34.5	-32.5	-30.1	-27.0	-24.4	-22.2	-20.5	-19.3	-18.8	-18.9	-20.1	-21.4	-21.5	-23.0	-24.3	-27.8	-18.8
20-Feb	-25.2	-26.1	-27.0	-27.8	-28.2	-28.9	-29.5	-29.8	-29.9	-28.7	-27.0	-23.7	-20.6	-17.2	-16.1	-15.3	-14.1	-15.3	-17.0	-18.6	-20.2	-21.7	-22.6	-23.6	-23.1	-14.1
21-Feb	-24.2	-24.6	-25.3	-26.0	-26.7	-26.1	-25.6	-24.9	-24.7	-22.7	-20.7	-19.3	-18.2	-17.0	-16.6	-16.3	-16.6	-17.1	-18.3	-20.2	-21.4	-22.6	-23.7	-24.4	-21.8	-16.3
22-Feb	-25.0	-25.2	-25.3	-25.6	-25.9	-26.3	-26.6	-26.9	-27.1	-26.9	-26.1	-25.4	-24.0	-22.6	-21.5	-21.1	-20.9	-20.8	-20.8	-20.7	-19.5	-18.0	-18.0	-18.2	-23.3	-18.0
23-Feb	-18.3	-18.6	-19.0	-19.2	-19.4	-19.6	-19.7	-19.9	-19.9	-19.6	-19.0	-18.3	-17.0	-16.2	-15.8	-14.9	-15.1	-15.6	-16.2	-17.9	-19.2	-20.2	-21.6	-22.2	-18.4	-14.9
24-Feb	-22.7	-22.5	-22.8	-23.2	-23.3	-23.6	-23.7	-23.3	-23.2	-22.5	-20.3	-18.2	-16.0	-14.3	-13.3	-12.5	-12.1	-12.0	-12.7	-13.7	-14.8	-15.4	-15.5	-15.1	-18.2	-12.0
25-Feb	-14.6	-14.7	-14.7	-16.2	-16.6	-16.6	-16.1	-15.8	-15.4	-14.2	-13.4	-12.2	-10.5	-9.5	-8.0	-6.8	-6.1	-6.0	-6.9	-7.5	-8.2	-9.9	-11.3	-12.1	-11.8	-6.0
26-Feb	-13.4	-14.6	-15.3	-16.2	-16.5	-16.4	-16.7	-16.8	-16.6	-16.6	-16.5	-16.2	-15.5	-15.4	-16.6	-16.8	-17.9	-18.4	-18.5	-19.1	-20.1	-21.1	-22.1	-22.7	-17.3	-13.4
27-Feb	-23.7	-24.3	-24.9	-26.0	-27.1	-28.2	-29.0	-29.7	-29.6	-28.7	-27.4	-26.1	-25.3	-24.5	-24.0	-23.9	-23.5	-24.4	-25.1	-26.1	-27.6	-28.8	-30.0	-30.6	-26.6	-23.5
28-Feb	-31.9	-32.1	-33.5	-34.6	-35.2	-36.0	-35.9	-36.4	-36.2	-34.5	-31.0	-27.3	-23.9	-20.0	-16.8	-14.7	-13.7	-13.6	-13.5	-14.5	-15.8	-15.6	-15.2	-16.1	-24.9	-13.5
	-15.2	-15.6	-16.0	-16.4	-16.8	-17.2	-17.4	-17.6	-17.6	-17.1	-16.1	-14.9	-13.6	-12.4	-11.6	-11.0	-10.9	-11.4	-12.1	-12.8	-13.5	-13.9	-14.4	-14.9	Diurnal Average	
	5.7	5.0	4.1	3.6	2.6	1.6	1.1	2.5	3.0	4.6	5.5	6.5	7.8	8.8	9.3	9.8	9.0	6.9	5.6	5.1	5.9	6.2	6.4	6.4	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 45m (AT45) - C

Lower Camp Met Tower - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	199	29.61	29.61
-20 - 0	410	61.01	90.63
0 - 10	63	9.38	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Ambient Temperature 100m (AT100) - C

Lower Camp Met Tower - February 2026

Maximum Value: 10.2 C on Feb 4 16:00

Maximum Daily Average: 2.8 C on Feb 4

Minimum Value: -34.5 C on Feb 19 07:00

Minimum Daily Average: -30.4 C on Feb 18

Maximum Diurnal Average: -11.3 C at hour 17

Minimum Diurnal Average: -17.0 C at hour 9

Monthly Average: -14.46 C

Percentiles: P_1 = -33.2 P_{10} = -27.5 Q_1 = -21.5 Median = -14.6 Q_3 = -7.7 P_{90} = 0.0 P_{99} = 6.6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

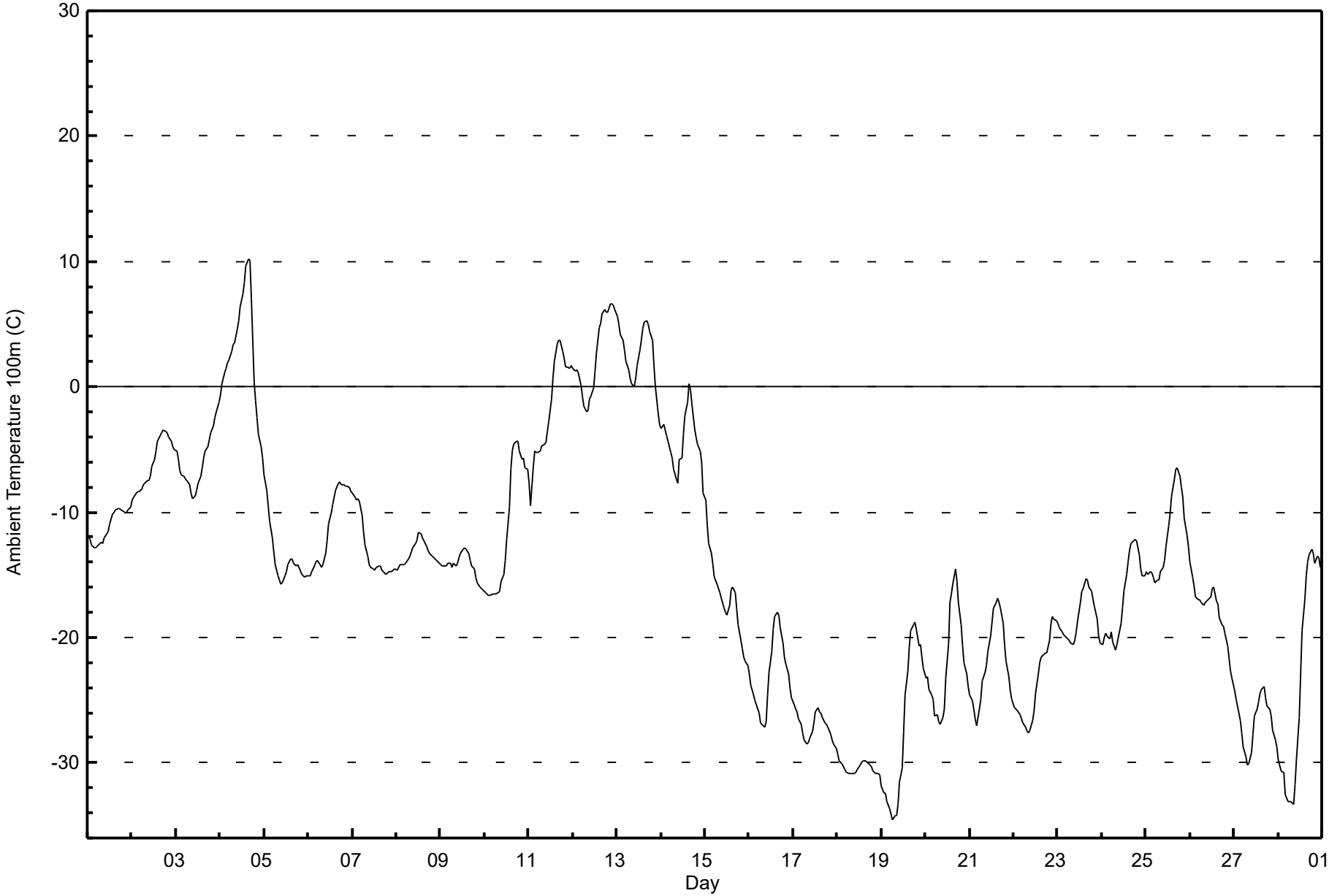
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.9	-12.2	-12.6	-12.8	-12.8	-12.7	-12.5	-12.4	-12.5	-12.1	-11.7	-11.5	-10.9	-10.2	-10.0	-9.9	-9.8	-9.7	-9.8	-10.0	-10.0	-10.0	-9.9	-9.6	-11.1	-9.6
2-Feb	-9.0	-8.8	-8.4	-8.4	-8.4	-8.2	-7.8	-7.7	-7.4	-7.4	-7.2	-6.4	-5.8	-5.2	-4.4	-3.9	-3.7	-3.5	-3.5	-3.6	-4.1	-4.4	-4.8	-5.0	-6.1	-3.5
3-Feb	-5.1	-5.8	-6.7	-7.0	-7.1	-7.3	-7.4	-7.8	-8.5	-9.0	-8.7	-8.3	-7.7	-7.2	-6.5	-5.6	-5.2	-4.8	-4.3	-3.6	-3.1	-2.4	-2.0	-1.2	-5.9	-1.2
4-Feb	-0.6	0.2	1.1	1.4	1.9	2.2	2.8	3.4	3.5	4.6	5.3	6.4	7.4	8.2	9.7	10.2	10.1	7.1	0.4	-1.1	-2.4	-3.8	-4.8	-5.7	2.8	10.2
5-Feb	-7.1	-8.3	-9.5	-10.8	-12.0	-13.2	-14.2	-15.1	-15.5	-15.8	-15.6	-15.1	-14.7	-14.1	-13.7	-13.8	-14.1	-14.3	-14.2	-14.5	-15.0	-15.1	-15.2	-15.1	-13.6	-7.1
6-Feb	-15.1	-15.1	-14.7	-14.3	-13.9	-13.9	-14.2	-14.4	-14.2	-13.3	-12.3	-11.0	-10.1	-9.4	-8.8	-8.3	-7.7	-7.5	-7.8	-7.9	-7.9	-7.9	-8.1	-8.3	-11.1	-7.5
7-Feb	-8.5	-8.8	-9.1	-8.9	-9.1	-10.3	-11.7	-12.6	-13.5	-14.2	-14.4	-14.6	-14.6	-14.5	-14.3	-14.3	-14.6	-14.8	-15.0	-14.9	-14.7	-14.7	-14.6	-14.5	-13.0	-8.5
8-Feb	-14.6	-14.4	-14.2	-14.2	-14.2	-14.1	-13.7	-13.5	-13.2	-12.9	-12.5	-12.2	-11.6	-11.7	-12.1	-12.3	-12.7	-13.0	-13.3	-13.5	-13.6	-13.7	-13.8	-14.0	-13.3	-11.6
9-Feb	-14.2	-14.3	-14.3	-14.3	-14.0	-14.1	-14.4	-14.1	-14.3	-14.1	-13.6	-13.3	-13.0	-12.8	-12.9	-13.3	-13.8	-14.3	-14.6	-15.2	-15.6	-15.9	-16.1	-16.2	-14.3	-12.8
10-Feb	-16.4	-16.5	-16.7	-16.7	-16.6	-16.6	-16.5	-16.4	-16.3	-15.5	-14.9	-13.9	-12.1	-9.5	-6.6	-5.1	-4.6	-4.3	-4.3	-5.1	-5.8	-5.7	-6.5	-6.6	-11.2	-4.3
11-Feb	-7.7	-9.5	-6.3	-5.1	-5.3	-5.3	-5.1	-4.7	-4.7	-4.5	-3.6	-2.7	-1.0	0.7	2.0	3.3	3.7	3.8	2.9	2.2	1.6	1.6	1.5	1.7	-1.7	3.8
12-Feb	1.5	1.2	1.3	1.2	0.1	-0.7	-1.6	-1.9	-1.9	-1.0	-0.8	0.0	1.3	2.7	4.8	5.1	5.9	6.1	6.0	6.0	6.6	6.6	6.5	6.2	2.5	6.6
13-Feb	5.6	5.0	4.2	3.7	2.9	2.1	1.4	0.7	0.3	0.0	0.7	1.7	3.0	3.8	4.6	5.2	5.3	4.9	4.4	3.7	1.7	0.0	-2.1	-3.0	2.5	5.6
14-Feb	-3.4	-3.0	-3.5	-3.9	-4.4	-5.3	-5.7	-6.6	-7.4	-7.7	-5.8	-5.7	-3.8	-2.3	-1.2	0.3	-0.2	-1.4	-3.3	-4.0	-4.6	-5.1	-6.0	-8.5	-4.3	0.3
15-Feb	-9.0	-11.1	-12.5	-13.3	-14.2	-15.2	-15.8	-16.0	-16.4	-16.9	-17.6	-18.0	-18.2	-17.4	-16.2	-16.0	-16.4	-17.8	-19.0	-20.2	-20.9	-21.6	-21.9	-22.3	-16.8	-9.0
16-Feb	-22.9	-23.8	-24.6	-25.0	-25.4	-26.1	-26.8	-27.0	-27.2	-26.8	-24.6	-22.8	-21.1	-19.4	-18.3	-18.0	-18.3	-19.2	-20.4	-21.5	-22.2	-22.9	-24.0	-24.8	-23.0	-18.0
17-Feb	-25.4	-25.7	-26.0	-26.4	-27.0	-27.6	-28.2	-28.5	-28.4	-28.1	-27.6	-26.9	-25.9	-25.6	-25.9	-26.1	-26.4	-26.8	-26.9	-27.1	-27.7	-28.1	-28.5	-28.8	-27.1	-25.4
18-Feb	-29.3	-29.8	-30.1	-30.3	-30.5	-30.7	-30.9	-30.9	-30.8	-30.8	-30.7	-30.5	-30.2	-30.0	-29.9	-29.8	-29.9	-30.1	-30.3	-30.6	-30.8	-30.8	-30.8	-31.0	-30.4	-29.3
19-Feb	-31.9	-32.4	-32.4	-33.1	-33.7	-34.1	-34.5	-34.2	-34.2	-33.3	-31.5	-30.4	-27.5	-24.6	-22.7	-20.8	-19.5	-19.0	-18.8	-19.3	-20.6	-20.5	-21.5	-22.4	-27.2	-18.8
20-Feb	-23.3	-23.2	-24.1	-24.6	-24.9	-26.2	-26.2	-26.7	-26.9	-26.4	-25.7	-23.2	-20.6	-17.2	-16.6	-15.7	-14.5	-15.5	-17.2	-19.0	-20.7	-22.1	-22.9	-23.9	-22.0	-14.5
21-Feb	-24.5	-25.0	-25.7	-26.5	-27.0	-25.8	-24.9	-23.4	-22.8	-22.2	-21.2	-19.9	-18.8	-17.6	-17.2	-16.9	-17.2	-17.7	-18.9	-20.7	-21.9	-23.1	-24.3	-25.0	-22.0	-16.9
22-Feb	-25.6	-25.8	-25.8	-26.2	-26.5	-26.9	-27.2	-27.5	-27.7	-27.4	-26.6	-25.8	-24.5	-22.9	-22.0	-21.6	-21.3	-21.2	-21.3	-20.2	-18.8	-18.3	-18.5	-18.7	-23.7	-18.3
23-Feb	-18.8	-19.2	-19.6	-19.8	-19.9	-20.1	-20.2	-20.4	-20.6	-20.2	-19.6	-18.6	-17.2	-16.3	-16.1	-15.3	-15.5	-15.9	-16.3	-17.0	-17.6	-18.5	-19.9	-20.4	-18.5	-15.3
24-Feb	-20.6	-20.0	-19.7	-19.9	-20.2	-19.6	-20.3	-21.0	-20.6	-20.1	-18.9	-17.7	-16.3	-15.0	-14.0	-13.1	-12.5	-12.3	-12.2	-12.3	-13.4	-14.5	-15.1	-15.1	-16.8	-12.2
25-Feb	-14.7	-15.0	-14.7	-14.9	-15.2	-15.7	-15.4	-15.5	-14.8	-14.4	-13.9	-12.7	-11.1	-10.0	-8.7	-7.4	-6.6	-6.5	-7.1	-8.0	-8.8	-10.5	-11.8	-12.7	-11.9	-6.5
26-Feb	-14.0	-15.1	-15.9	-16.8	-17.0	-17.0	-17.2	-17.4	-17.2	-17.1	-17.0	-16.7	-16.1	-15.9	-17.1	-17.4	-18.5	-18.9	-19.1	-19.6	-20.6	-21.7	-22.6	-23.3	-17.9	-14.0
27-Feb	-24.2	-24.9	-25.5	-26.6	-27.6	-28.7	-29.5	-30.2	-30.1	-29.2	-27.7	-26.3	-25.7	-25.1	-24.5	-24.1	-23.9	-24.8	-25.5	-25.7	-26.3	-27.4	-28.1	-28.7	-26.7	-23.9
28-Feb	-29.7	-30.7	-30.8	-30.7	-32.6	-33.1	-33.1	-33.1	-33.4	-31.8	-29.7	-26.4	-22.9	-19.4	-17.0	-15.1	-14.0	-13.4	-13.0	-13.3	-14.1	-13.5	-13.6	-14.4	-23.3	-13.0
	-15.0	-15.4	-15.6	-15.9	-16.2	-16.6	-16.8	-17.0	-17.0	-16.7	-16.0	-15.1	-13.9	-12.8	-12.0	-11.4	-11.3	-11.6	-12.2	-12.7	-13.3	-13.7	-14.3	-14.7	Diurnal Average	
	5.6	5.0	4.2	3.7	2.9	2.2	2.8	3.4	3.5	4.6	5.3	6.4	7.4	8.2	9.7	10.2	10.1	7.1	6.0	6.0	6.6	6.6	6.5	6.2	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 100m (AT100) - C

Lower Camp Met Tower - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	198	29.46	29.46
-20 - 0	406	60.42	89.88
0 - 10	66	9.82	99.70
10 - 20	2	0.30	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Ambient Temperature 163m (AT163) - C

Lower Camp Met Tower - February 2026

Maximum Value: 10.0 C on Feb 4 17:00

Maximum Daily Average: 2.6 C on Feb 12

Minimum Value: -32.9 C on Feb 19 07:00

Minimum Daily Average: -31.1 C on Feb 18

Maximum Diurnal Average: -11.8 C at hour 17

Minimum Diurnal Average: -16.9 C at hour 9

Monthly Average: -14.58 C

Percentiles: P_1 = -31.6 P_{10} = -27.9 Q_1 = -21.4 Median = -15.0 Q_3 = -8.2 P_{90} = -0.1 P_{99} = 6.3

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

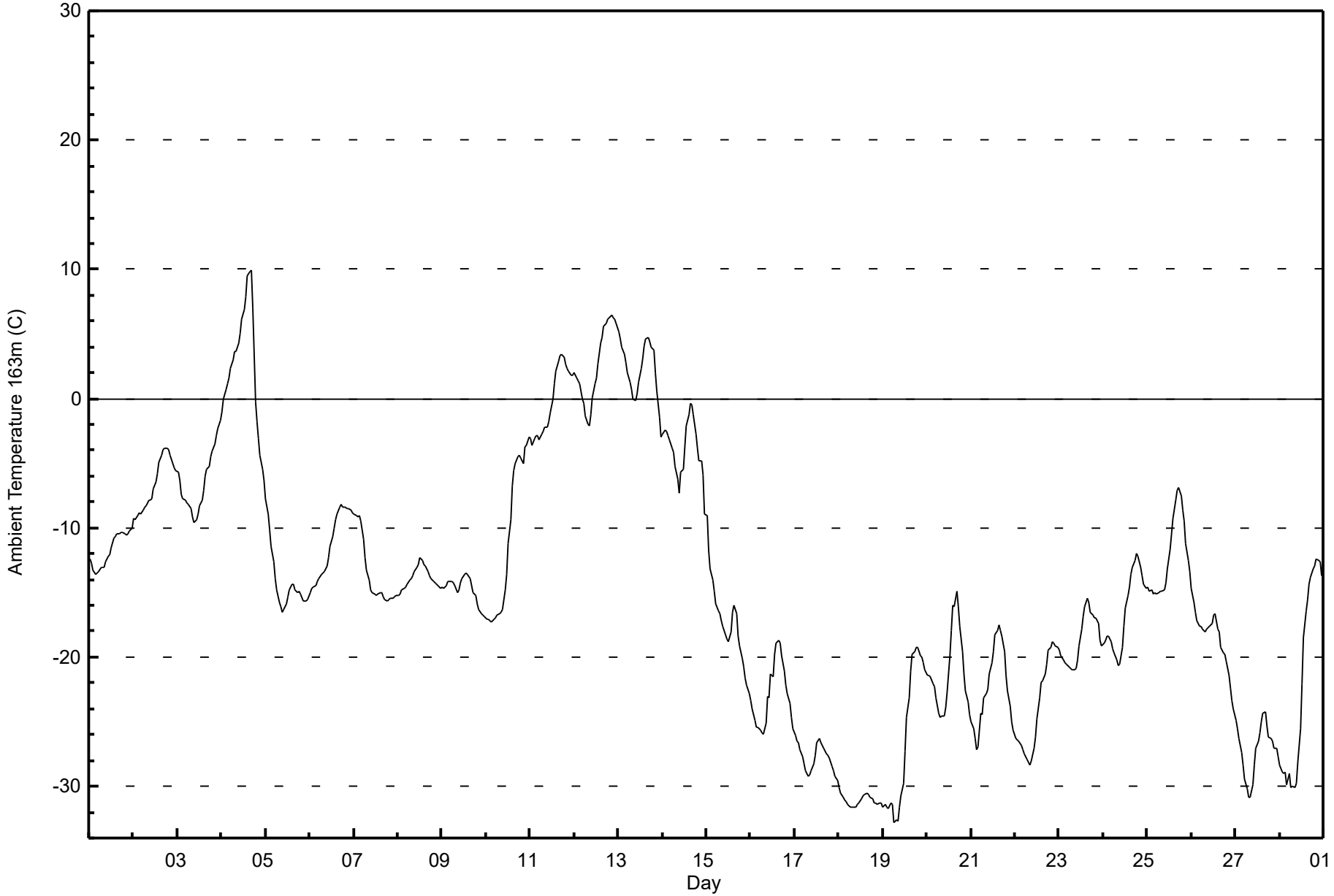
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.4	-12.8	-13.3	-13.6	-13.5	-13.3	-13.1	-13.0	-13.1	-12.6	-12.2	-12.1	-11.6	-10.8	-10.7	-10.5	-10.4	-10.4	-10.4	-10.4	-10.6	-10.4	-10.3	-10.0	-11.7	-10.0
2-Feb	-9.3	-9.4	-9.0	-8.8	-8.9	-8.7	-8.4	-8.3	-7.9	-7.9	-7.7	-7.0	-6.4	-5.8	-4.9	-4.4	-4.0	-3.8	-3.8	-4.0	-4.4	-5.0	-5.4	-5.6	-6.6	-3.8
3-Feb	-5.7	-6.3	-7.5	-7.8	-7.9	-8.0	-8.1	-8.5	-9.2	-9.6	-9.4	-9.0	-8.3	-7.8	-7.1	-6.0	-5.5	-5.2	-4.5	-4.0	-3.6	-2.9	-2.3	-1.6	-6.5	-1.6
4-Feb	-1.0	0.0	0.7	1.1	1.6	2.3	3.0	3.6	3.7	4.3	5.1	6.1	6.9	7.8	9.5	9.8	10.0	7.0	-0.2	-1.8	-3.1	-4.4	-5.4	-6.4	2.5	10.0
5-Feb	-7.7	-9.0	-10.2	-11.4	-12.7	-13.9	-14.8	-15.7	-16.2	-16.5	-16.3	-15.8	-15.4	-14.8	-14.4	-14.4	-14.8	-15.0	-14.9	-15.2	-15.7	-15.7	-15.7	-15.5	-14.2	-7.7
6-Feb	-15.1	-14.7	-14.6	-14.5	-14.2	-13.9	-13.7	-13.5	-13.4	-13.0	-12.3	-11.5	-10.7	-10.0	-9.4	-8.9	-8.4	-8.2	-8.4	-8.4	-8.5	-8.5	-8.6	-8.8	-11.3	-8.2
7-Feb	-8.9	-9.1	-9.2	-9.0	-9.5	-10.9	-12.3	-13.2	-14.1	-14.8	-15.1	-15.1	-15.2	-15.1	-15.0	-15.1	-15.4	-15.5	-15.6	-15.6	-15.5	-15.4	-15.3	-15.2	-13.5	-8.9
8-Feb	-15.2	-15.1	-14.8	-14.7	-14.6	-14.4	-14.1	-13.9	-13.7	-13.4	-13.1	-12.9	-12.3	-12.5	-12.8	-13.0	-13.4	-13.7	-13.9	-14.1	-14.3	-14.4	-14.5	-14.7	-13.9	-12.3
9-Feb	-14.6	-14.7	-14.5	-14.2	-14.1	-14.2	-14.2	-14.4	-15.0	-14.8	-14.3	-14.0	-13.6	-13.5	-13.6	-14.0	-14.5	-15.0	-15.3	-15.9	-16.3	-16.6	-16.8	-16.9	-14.8	-13.5
10-Feb	-17.0	-17.1	-17.2	-17.3	-17.1	-17.0	-16.8	-16.6	-16.6	-16.3	-14.8	-13.6	-11.3	-9.3	-6.8	-5.5	-5.1	-4.5	-4.4	-4.6	-5.1	-3.7	-3.6	-3.0	-11.0	-3.0
11-Feb	-3.1	-3.7	-3.0	-2.9	-2.9	-3.2	-2.8	-2.5	-2.2	-2.2	-1.8	-1.1	-0.1	1.1	2.1	2.9	3.3	3.4	3.2	2.7	2.3	2.1	1.8	1.7	-0.2	3.4
12-Feb	2.0	1.6	1.3	1.1	-0.1	-0.4	-1.4	-2.0	-2.1	-1.3	0.0	1.1	1.6	2.7	4.3	4.7	5.6	5.8	6.1	6.2	6.5	6.3	6.1	5.8	2.6	6.5
13-Feb	5.2	4.6	3.9	3.4	2.7	2.0	1.3	0.7	0.0	-0.2	0.4	1.2	2.4	3.1	4.0	4.6	4.7	4.4	4.0	3.8	2.0	0.6	-1.5	-2.9	2.3	5.2
14-Feb	-2.8	-2.4	-2.5	-2.9	-3.2	-3.8	-4.1	-5.2	-6.3	-7.3	-5.7	-5.5	-3.7	-2.1	-1.3	-0.4	-0.4	-1.2	-2.7	-3.9	-4.8	-4.9	-5.9	-9.0	-3.8	-0.4
15-Feb	-9.0	-11.8	-13.2	-14.0	-14.9	-15.8	-16.4	-16.7	-17.1	-17.6	-18.3	-18.6	-18.8	-18.1	-16.5	-16.0	-16.7	-18.3	-19.2	-20.2	-20.8	-21.7	-22.2	-22.8	-17.3	-9.0
16-Feb	-23.4	-24.1	-24.9	-25.4	-25.4	-25.7	-25.9	-26.0	-25.1	-23.1	-23.1	-21.3	-21.5	-19.8	-18.9	-18.7	-18.9	-19.9	-21.1	-22.1	-22.8	-23.6	-24.7	-25.5	-22.9	-18.7
17-Feb	-26.1	-26.5	-26.7	-27.1	-27.7	-28.3	-28.8	-29.2	-29.1	-28.8	-28.3	-27.6	-26.7	-26.3	-26.6	-26.8	-27.1	-27.5	-27.6	-27.9	-28.4	-28.8	-29.2	-29.5	-27.8	-26.1
18-Feb	-30.1	-30.5	-30.9	-31.0	-31.2	-31.4	-31.6	-31.6	-31.6	-31.6	-31.4	-31.2	-30.9	-30.7	-30.6	-30.5	-30.6	-30.8	-31.0	-31.3	-31.3	-31.4	-31.3	-31.3	-31.1	-30.1
19-Feb	-31.6	-31.4	-31.6	-31.8	-31.3	-31.4	-32.9	-32.6	-32.7	-31.6	-30.8	-29.8	-27.3	-24.7	-23.1	-21.1	-19.8	-19.5	-19.3	-19.2	-19.8	-20.0	-20.5	-21.0	-26.4	-19.2
20-Feb	-21.4	-21.4	-21.5	-22.1	-22.2	-23.2	-24.4	-24.7	-24.5	-24.6	-23.9	-22.7	-19.9	-17.9	-16.0	-16.1	-14.9	-16.1	-17.7	-19.6	-21.3	-22.6	-23.5	-24.4	-21.1	-14.9
21-Feb	-25.0	-25.5	-26.3	-27.2	-26.9	-24.3	-24.5	-23.1	-22.9	-22.5	-21.3	-20.5	-19.5	-18.3	-17.9	-17.6	-17.9	-18.4	-19.5	-21.4	-22.6	-23.9	-25.0	-25.7	-22.4	-17.6
22-Feb	-26.3	-26.4	-26.5	-26.9	-27.2	-27.5	-27.9	-28.1	-28.3	-28.0	-27.1	-26.2	-24.7	-23.1	-21.9	-21.8	-21.3	-20.6	-19.5	-19.3	-18.8	-18.9	-19.2	-19.3	-24.0	-18.8
23-Feb	-19.5	-19.9	-20.2	-20.5	-20.6	-20.8	-20.9	-21.0	-21.0	-20.9	-20.3	-19.2	-17.8	-16.8	-16.1	-15.5	-15.8	-16.5	-16.7	-16.9	-17.0	-17.4	-18.7	-19.2	-18.7	-15.5
24-Feb	-18.9	-18.7	-18.3	-18.4	-18.8	-19.3	-19.7	-20.2	-20.6	-20.6	-19.2	-17.6	-16.2	-15.2	-14.6	-13.6	-13.0	-12.5	-12.0	-12.2	-13.1	-13.7	-14.3	-14.7	-16.5	-12.0
25-Feb	-14.6	-14.9	-14.8	-15.1	-15.0	-15.1	-15.0	-14.9	-14.9	-14.8	-14.3	-13.2	-11.6	-10.5	-9.2	-7.9	-7.1	-6.9	-7.5	-8.6	-9.5	-11.2	-12.5	-13.4	-12.2	-6.9
26-Feb	-14.7	-15.8	-16.5	-17.2	-17.6	-17.6	-17.9	-18.1	-17.9	-17.7	-17.6	-17.4	-16.7	-16.6	-17.8	-18.1	-19.2	-19.6	-19.8	-20.4	-21.4	-22.4	-23.4	-24.0	-18.6	-14.7
27-Feb	-24.9	-25.6	-26.3	-27.4	-28.4	-29.4	-30.2	-30.8	-30.9	-29.9	-28.4	-27.0	-26.5	-25.9	-25.0	-24.4	-24.3	-25.4	-26.2	-26.3	-26.5	-27.0	-27.1	-27.7	-27.1	-24.3
28-Feb	-28.3	-28.9	-29.0	-28.9	-29.8	-29.0	-30.1	-30.0	-30.1	-29.7	-28.1	-25.5	-22.1	-18.5	-16.4	-15.6	-14.4	-13.8	-13.2	-12.9	-12.4	-12.5	-12.6	-13.7	-21.9	-12.4
	-15.0	-15.3	-15.6	-15.9	-16.1	-16.3	-16.6	-16.8	-16.9	-16.7	-16.0	-15.2	-14.2	-13.2	-12.4	-11.9	-11.8	-12.1	-12.5	-13.0	-13.5	-13.9	-14.3	-14.8	Diurnal Average	
	5.2	4.6	3.9	3.4	2.7	2.3	3.0	3.6	3.7	4.3	5.1	6.1	6.9	7.8	9.5	9.8	10.0	7.0	6.1	6.2	6.5	6.3	6.1	5.8	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 163m (AT163) - C

Lower Camp Met Tower - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	195	29.02	29.02
-20 - 0	411	61.16	90.18
0 - 10	66	9.82	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 20m (RH20) - %

Lower Camp Met Tower - February 2026

Maximum Value: 91.1 % on Feb 10 22:00

Maximum Daily Average: 83.7 % on Feb 10

Minimum Value: 38.1 % on Feb 13 16:00

Minimum Daily Average: 49.6 % on Feb 13

Maximum Diurnal Average: 79.1 % at hour 8

Minimum Diurnal Average: 63.3 % at hour 16

Monthly Average: 72.67 %

Percentiles: P_1 = 42.0 P_{10} = 55.9 Q_1 = 66.5 Median = 75.2 Q_3 = 80.0 P_{90} = 85.1 P_{99} = 89.3

Hours in Service:	672
Hours of Data:	604
Hours of Missing Data:	68
Hours of Calibration:	0
Percent Operational Time:	89.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	78.9	78.5	79.2	78.9	78.5	79.5	79.5	80.7	81.0	81.7	80.5	77.6	74.8	74.1	76.6	77.8	76.8	75.3	73.9	72.5	73.8	74.1	74.7	75.4	77.2	81.7
2-Feb	75.6	76.3	75.4	75.5	75.2	77.3	78.6	81.2	83.6	86.5	85.7	84.0	85.8	82.9	80.5	80.4	79.8	80.8	83.5	85.1	86.0	86.7	87.1	89.0	81.8	89.0
3-Feb	89.3	89.1	83.3	82.6	82.1	82.1	82.2	81.2	77.3	74.5	72.2	71.6	70.2	70.3	74.7	76.2	77.0	84.8	87.9	85.8	84.2	84.5	85.3	84.8	80.6	89.3
4-Feb	83.3	87.2	81.9	80.2	78.3	83.1	86.4	83.7	82.5	77.5	72.6	68.9	63.6	59.8	61.5	59.3	62.8	67.7	81.9	85.7	87.1	89.4	87.1	87.2	77.5	89.4
5-Feb	85.7	81.9	84.8	82.6	79.5	78.9	79.7	80.0	77.1	73.1	71.9	72.9	72.0	69.1	69.3	69.5	71.0	72.4	73.6	75.3	79.4	81.2	82.8	84.1	77.0	85.7
6-Feb	84.7	85.2	85.1	85.2	85.2	85.3	85.2	85.1	84.8	84.2	83.5	79.8	76.7	76.9	77.7	77.9	78.0	78.4	79.2	79.7	80.9	85.0	87.9	89.2	82.5	89.2
7-Feb	89.7	89.0	88.3	87.6	88.1	88.2	81.2	82.9	83.7	81.6	80.3	79.4	79.0	77.2	76.6	77.1	76.9	77.7	79.3	77.8	77.8	77.7	77.6	78.2	81.4	89.7
8-Feb	78.9	79.5	79.9	80.6	83.1	84.3	83.8	85.0	85.7	86.0	84.3	81.4	79.6	74.3	74.1	75.2	77.9	76.5	76.4	80.3	80.2	80.8	79.8	80.1	80.3	86.0
9-Feb	81.8	85.2	85.6	84.8	84.4	84.5	82.9	80.4	81.3	80.7	77.8	76.3	74.1	72.9	73.2	73.3	73.1	74.3	75.6	75.2	75.2	75.1	74.5	75.8	78.2	85.6
10-Feb	78.4	78.8	81.0	85.3	86.2	85.2	85.5	85.2	85.0	85.1	85.1	85.3	86.1	82.5	74.8	71.8	75.8	80.1	83.3	87.4	90.4	91.1	90.7	89.9	83.7	91.1
11-Feb	88.4	86.6	88.3	88.6	88.3	88.2	88.0	87.9	87.8	88.1	87.9	84.2	79.5	74.6	67.8	63.3	67.7	75.4	73.1	78.2	80.3	77.4	78.0	76.8	81.0	88.6
12-Feb	76.2	72.0	72.1	74.2	70.5	73.5	74.1	74.6	76.4	78.2	75.9	69.5	64.4	60.8	57.7	55.9	54.9	58.4	55.9	55.3	51.4	50.2	46.9	41.0	64.2	78.2
13-Feb	41.3	42.0	44.7	45.3	47.8	50.4	51.9	52.6	51.6	52.8	50.9	47.3	43.1	40.8	38.8	38.1	39.4	46.7	52.2	54.9	53.5	59.7	68.0	75.7	49.6	75.7
14-Feb	80.0	78.4	77.2	75.8	78.5	80.3	82.8	83.8	83.4	78.0	64.9	59.7	52.9	50.1	50.7	45.0	49.1	57.4	63.7	66.6	70.5	72.0	74.9	78.6	68.9	83.8
15-Feb	78.6	79.9	78.5	77.7	79.4	79.6	78.5	78.3	74.0	69.0	65.7	63.0	61.5	59.1	54.9	53.6	54.6	55.2	59.2	60.3	63.1	65.3	70.6	DF	67.8	79.9
16-Feb	DF	76.6	75.1	74.2	DF	DF	DF	DF	DF	DF	59.8	57.9	56.5	52.1	50.9	50.3	50.3	53.9	56.8	59.4	60.4	60.6	62.3	64.5	--	76.6
17-Feb	65.2	64.5	64.5	64.5	67.1	68.5	70.0	69.8	69.6	68.0	67.5	66.2	63.7	63.6	64.6	64.4	DF	DF	DF	DF	DF	DF	DF	DF	--	70.0
18-Feb	DF	DF	DF	DF	DF	DF	DF	DF	DF	DF	DF	61.3	60.2	62.2	63.3	62.9	65.4	DF	DF	DF	DF	71.6	71.7	70.2	--	71.7
19-Feb	70.1	DF	DF	DF	DF	DF	DF	DF	DF	DF	DF	65.3	60.8	55.2	53.3	52.1	52.2	55.8	59.2	62.4	67.1	69.2	72.1	73.3	--	73.3
20-Feb	DF	DF	75.2	74.8	74.5	DF	DF	DF	DF	DF	72.6	70.9	62.0	58.0	55.8	56.9	54.3	59.8	59.2	58.0	60.6	63.6	65.4	66.2	--	75.2
21-Feb	66.9	67.3	68.3	68.8	70.0	69.5	70.4	70.8	71.9	70.4	67.9	65.5	63.5	61.3	61.0	60.7	65.4	68.3	71.8	70.1	70.2	70.3	70.8	70.2	68.0	71.9
22-Feb	70.7	70.6	70.4	70.4	69.9	70.4	69.5	DF	70.2	DF	66.0	67.4	66.4	64.9	66.1	69.7	73.0	76.3	77.4	78.4	78.8	76.5	75.8	75.4	71.6	78.8
23-Feb	75.3	77.8	76.6	76.0	75.8	74.3	77.0	78.5	77.4	74.4	71.2	69.8	66.9	66.5	68.0	65.6	67.3	71.1	77.6	83.0	81.5	79.4	78.9	77.9	74.5	83.0
24-Feb	77.5	77.0	77.4	77.9	77.6	77.5	77.9	78.3	78.0	78.3	78.7	72.4	66.3	62.4	59.3	57.3	58.3	61.0	69.4	75.7	74.3	73.4	71.7	70.8	72.0	78.7
25-Feb	73.4	79.8	82.5	83.3	83.2	83.3	83.4	83.0	81.8	78.7	74.7	71.6	69.1	70.1	68.2	64.9	67.2	69.4	DF	77.4	78.0	79.1	77.8	77.8	76.4	83.4
26-Feb	77.4	76.9	76.6	79.7	81.1	78.7	79.7	78.4	79.2	79.5	79.8	78.4	76.4	75.7	71.1	71.2	71.8	74.0	77.2	71.7	71.2	69.2	67.0	67.0	75.4	81.1
27-Feb	64.7	65.2	67.0	65.6	65.1	DF	DF	DF	DF	61.7	55.4	51.7	50.7	48.0	48.9	52.1	48.6	53.8	DF	DF	DF	DF	DF	DF	--	67.0
28-Feb	DF	DF	DF	DF	69.5	69.0	68.8	DF	DF	DF	69.9	69.0	65.1	60.0	54.7	51.3	50.9	53.4	57.2	61.0	65.1	68.0	74.0	77.3	--	77.3
	76.3	76.9	76.8	76.8	76.8	77.9	78.1	79.1	78.3	76.7	73.2	70.3	67.5	65.2	64.1	63.3	64.4	67.6	71.0	72.7	73.6	74.3	75.1	75.9	Diurnal Average	
	89.7	89.1	88.3	88.6	88.3	88.2	88.0	87.9	87.8	88.1	87.9	85.3	86.1	82.9	80.5	80.4	79.8	84.8	87.9	87.4	90.4	91.1	90.7	89.9	Diurnal Maximum	

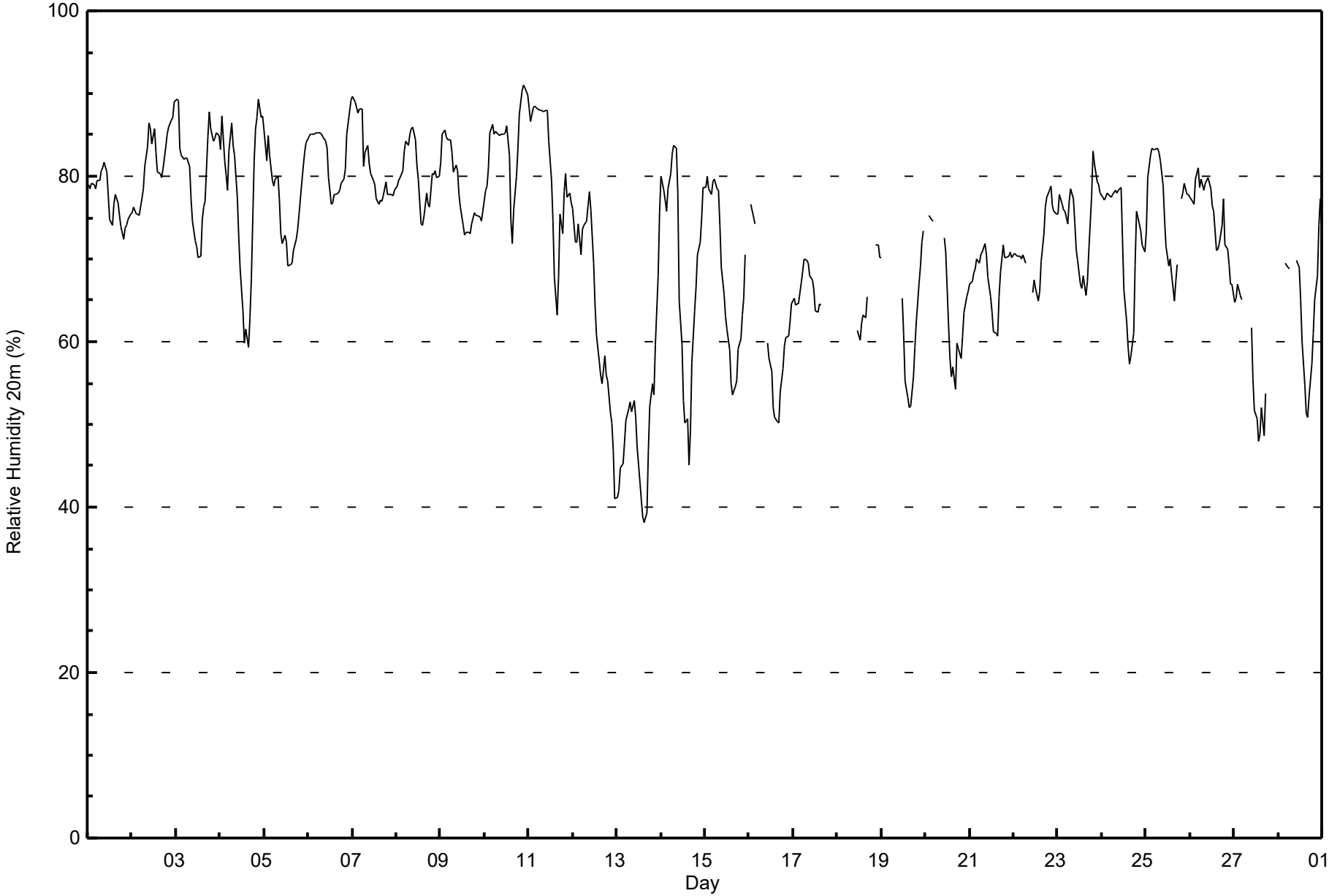
DF - DAS Failure

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 20m (RH20) - %

Lower Camp Met Tower - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	3	0.50	0.50
40 - 60	83	13.74	14.24
60 - 80	366	60.60	74.83
80 - 100	152	25.17	100.00

Total Number of Valid Hours: 604

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 45m (RH45) - %

Lower Camp Met Tower - February 2026

Maximum Value: 93.3 % on Feb 10 22:00

Maximum Daily Average: 85.2 % on Feb 10

Minimum Value: 34.3 % on Feb 13 17:00

Minimum Daily Average: 45.5 % on Feb 13

Maximum Diurnal Average: 77.0 % at hour 8

Minimum Diurnal Average: 64.1 % at hour 16

Monthly Average: 72.60 %

Percentiles: P_1 = 40.4 P_{10} = 56.4 Q_1 = 66.2 Median = 74.2 Q_3 = 80.8 P_{90} = 85.8 P_{99} = 91.1

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

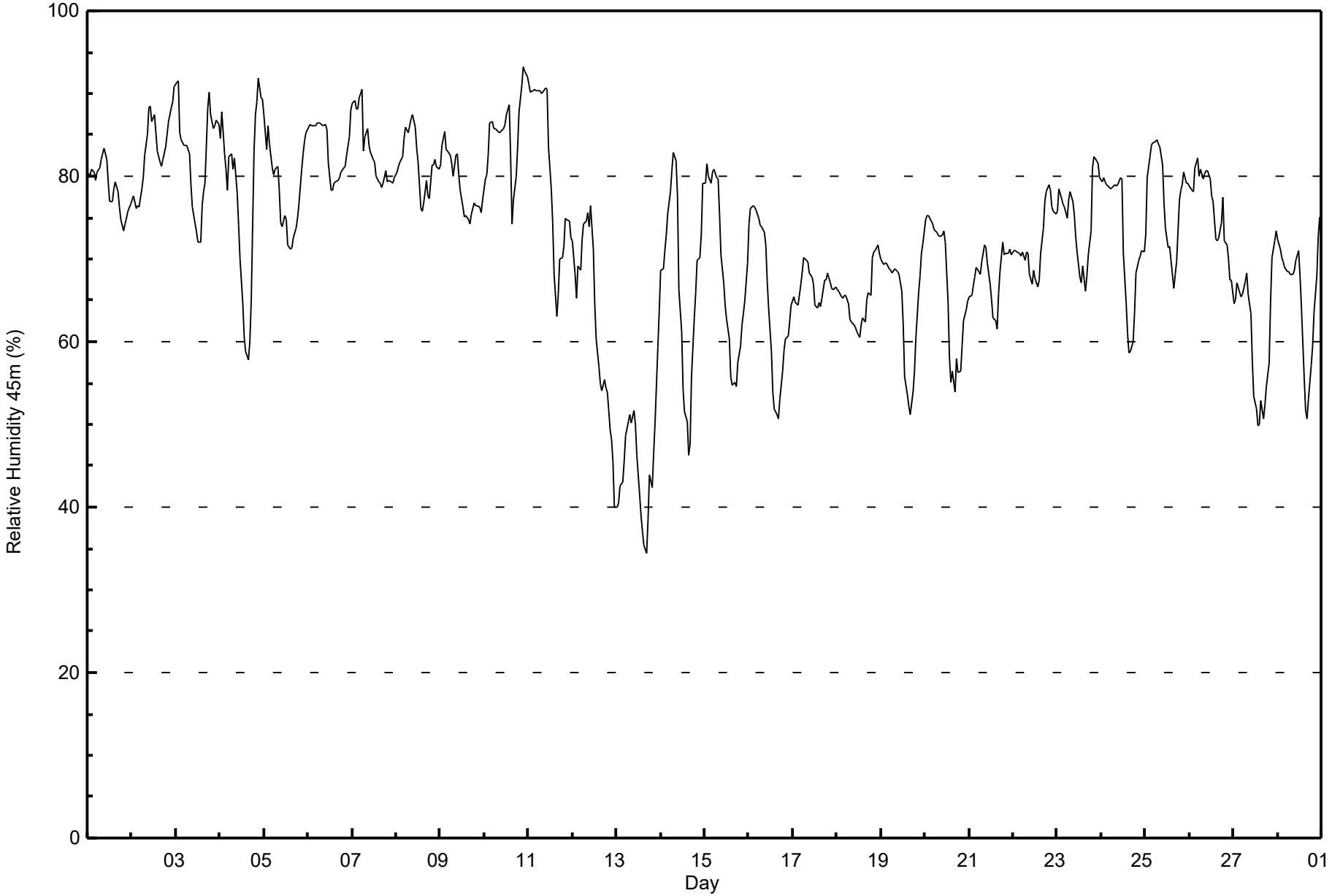
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	80.3	80.1	80.8	80.5	79.5	80.5	80.9	82.1	82.8	83.4	82.0	79.3	76.9	76.9	78.5	79.3	78.2	76.4	74.8	73.4	74.2	75.0	75.7	76.7	78.7	83.4
2-Feb	77.0	77.6	76.1	76.5	76.2	78.5	79.8	82.6	85.1	88.4	88.5	86.7	87.5	85.3	83.1	81.8	81.2	82.1	83.6	85.0	86.7	88.2	89.0	90.9	83.2	90.9
3-Feb	91.4	91.5	85.2	84.4	83.8	83.7	83.8	82.8	79.0	76.3	74.3	73.2	72.1	72.0	76.5	78.1	79.2	88.4	90.1	87.4	85.7	86.1	86.8	86.3	82.4	91.5
4-Feb	84.6	87.8	82.8	80.8	78.3	82.4	82.7	80.8	82.2	77.9	74.1	70.0	64.5	60.5	58.7	57.8	60.0	65.0	83.0	87.4	89.0	91.9	89.5	89.3	77.5	91.9
5-Feb	87.4	83.1	86.1	83.9	81.0	80.2	80.9	81.2	78.3	74.5	74.0	75.3	74.8	71.7	71.3	71.4	72.6	73.8	74.9	76.6	80.9	82.8	84.2	85.2	78.6	87.4
6-Feb	86.0	86.3	86.2	86.1	86.0	86.4	86.5	86.3	86.2	86.3	85.6	81.4	78.2	78.3	79.2	79.3	79.5	79.8	80.5	81.0	81.1	82.5	84.8	88.0	83.4	88.0
7-Feb	88.8	89.1	88.1	88.1	89.5	90.4	83.1	84.8	85.7	83.8	82.8	82.0	81.6	80.0	79.3	79.1	78.6	79.2	80.7	79.4	79.4	79.3	79.2	79.8	83.0	90.4
8-Feb	80.5	81.1	81.7	82.4	84.6	85.9	85.2	86.1	86.9	87.5	86.0	83.4	81.7	76.1	75.8	76.8	79.5	77.7	77.3	81.4	81.4	82.0	81.2	80.8	81.8	87.5
9-Feb	81.3	83.7	85.4	83.2	83.1	82.6	81.6	79.9	82.5	82.7	80.1	78.4	76.3	75.1	75.2	74.8	74.3	75.4	76.8	76.4	76.4	76.3	75.7	77.0	78.9	85.4
10-Feb	79.6	80.3	82.6	86.4	86.7	85.7	85.7	85.4	85.2	85.4	85.8	86.3	87.5	88.6	82.4	74.3	77.1	80.0	83.5	87.8	91.1	93.3	92.7	92.0	85.2	93.3
11-Feb	91.1	90.1	90.4	90.5	90.4	90.4	90.4	89.9	90.1	90.7	90.5	83.6	78.4	74.5	68.1	63.0	65.8	70.0	70.2	71.5	74.9	74.8	74.5	72.6	80.7	91.1
12-Feb	72.2	68.1	65.2	69.2	68.6	72.4	74.2	74.6	75.6	73.9	76.5	71.3	64.7	60.4	56.9	55.0	54.1	55.5	54.4	53.9	49.4	48.1	45.4	39.9	62.5	76.5
13-Feb	40.0	40.5	42.5	43.0	45.5	48.6	50.3	51.1	50.2	51.7	50.0	46.3	41.6	39.1	37.0	35.5	34.3	38.4	43.9	42.4	46.5	50.2	59.4	63.7	45.5	63.7
14-Feb	68.6	68.8	71.0	72.9	75.5	78.1	80.6	82.8	81.9	77.6	66.2	61.2	54.2	51.5	50.4	46.3	47.5	55.7	62.9	65.9	69.7	70.1	73.1	79.2	67.2	82.8
15-Feb	79.1	81.5	80.0	79.1	80.6	80.9	79.8	79.6	75.4	70.5	67.1	64.4	62.8	60.4	55.8	54.8	55.0	54.6	57.5	59.5	62.1	63.4	64.9	69.6	68.3	81.5
16-Feb	74.2	76.1	76.4	76.2	75.9	74.9	74.0	73.9	73.2	71.7	67.3	64.1	58.8	54.0	51.8	51.1	50.6	53.0	56.4	59.0	60.3	60.6	62.4	64.4	65.0	76.4
17-Feb	65.3	64.7	64.6	64.4	66.9	68.5	70.2	69.8	69.6	68.2	67.9	66.9	64.4	64.1	64.8	64.3	65.3	67.4	67.5	68.3	67.1	66.5	66.2	66.7	66.6	70.2
18-Feb	66.3	66.0	65.4	65.3	65.7	65.6	64.5	62.7	62.4	62.1	61.8	61.3	60.5	62.1	62.8	62.4	65.1	65.9	65.6	70.2	70.9	71.0	71.7	70.7	65.3	71.7
19-Feb	70.0	69.4	69.4	69.4	68.9	68.6	68.3	68.9	68.7	68.4	68.1	66.1	62.1	55.8	53.5	52.3	51.2	53.9	56.3	60.4	65.9	68.0	70.7	71.9	64.4	71.9
20-Feb	74.8	75.3	75.2	74.6	74.2	73.6	73.2	72.8	72.7	72.8	73.3	72.1	64.7	57.9	55.0	56.5	53.9	57.9	56.3	56.4	59.4	62.5	64.0	64.9	66.4	75.3
21-Feb	65.4	65.6	66.7	67.9	69.1	68.6	68.1	69.7	71.8	71.3	69.4	67.0	65.2	62.8	62.6	61.5	65.8	68.5	72.0	70.6	70.6	70.7	71.1	70.6	68.0	72.0
22-Feb	71.0	71.0	70.8	70.7	70.4	70.9	69.9	70.8	70.6	68.1	66.9	68.7	67.7	66.5	67.5	70.6	73.8	77.0	78.2	79.0	78.3	76.3	75.8	75.4	71.9	79.0
23-Feb	75.8	78.4	77.3	76.7	76.3	74.9	77.1	78.1	77.0	75.4	72.6	70.8	67.8	67.1	69.2	66.1	68.0	70.4	73.3	81.0	82.4	81.9	81.6	79.9	75.0	82.4
24-Feb	79.2	79.7	79.3	79.0	78.7	78.5	78.7	79.0	78.8	78.9	79.9	79.6	70.7	64.8	61.0	58.6	58.8	60.0	63.6	68.4	69.9	70.4	71.0	70.8	72.4	79.9
25-Feb	73.1	79.8	82.4	83.7	84.0	84.1	84.5	83.9	83.6	81.3	76.8	73.8	71.3	71.5	69.8	66.5	68.2	69.7	77.1	78.3	79.0	80.5	79.1	79.1	77.5	84.5
26-Feb	78.8	78.2	78.1	81.0	82.3	80.0	80.8	79.7	80.4	80.7	80.7	79.7	77.7	77.0	72.3	72.2	72.6	74.4	77.4	72.2	71.7	70.1	67.5	67.4	76.4	82.3
27-Feb	64.6	65.1	67.2	66.0	65.4	65.7	67.3	68.4	65.8	63.4	57.6	53.4	51.8	49.8	50.0	52.8	50.7	52.4	54.5	57.4	64.8	70.2	72.2	73.3	61.2	73.3
28-Feb	72.3	71.2	70.1	69.7	69.0	68.5	68.4	68.1	68.1	68.7	69.8	71.0	67.9	64.3	55.5	51.7	50.7	53.1	57.1	59.6	63.6	67.9	72.7	75.1	65.6	75.1
	75.7	76.1	76.0	76.1	76.3	76.8	76.8	77.0	76.8	75.8	74.1	72.0	69.0	66.7	65.1	64.1	64.7	67.0	69.6	71.1	72.6	73.6	74.4	75.0	Diurnal Average	
	91.4	91.5	90.4	90.5	90.4	90.4	90.4	89.9	90.1	90.7	90.5	86.7	87.5	88.6	83.1	81.8	81.2	88.4	90.1	87.8	91.1	93.3	92.7	92.0	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 45m (RH45) - %

Lower Camp Met Tower - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	7	1.04	1.04
40 - 60	80	11.90	12.95
60 - 80	397	59.08	72.02
80 - 100	188	27.98	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 94.3 % on Feb 4 22:00

Maximum Daily Average: 85.3 % on Feb 10

Minimum Value: 34.6 % on Feb 13 17:00

Minimum Daily Average: 43.6 % on Feb 13

Maximum Diurnal Average: 77.4 % at hour 8

Minimum Diurnal Average: 65.4 % at hour 16

Monthly Average: 73.15 %

Percentiles: P_1 = 38.8 P_{10} = 56.7 Q_1 = 66.9 Median = 74.2 Q_3 = 81.8 P_{90} = 85.9 P_{99} = 92.3

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

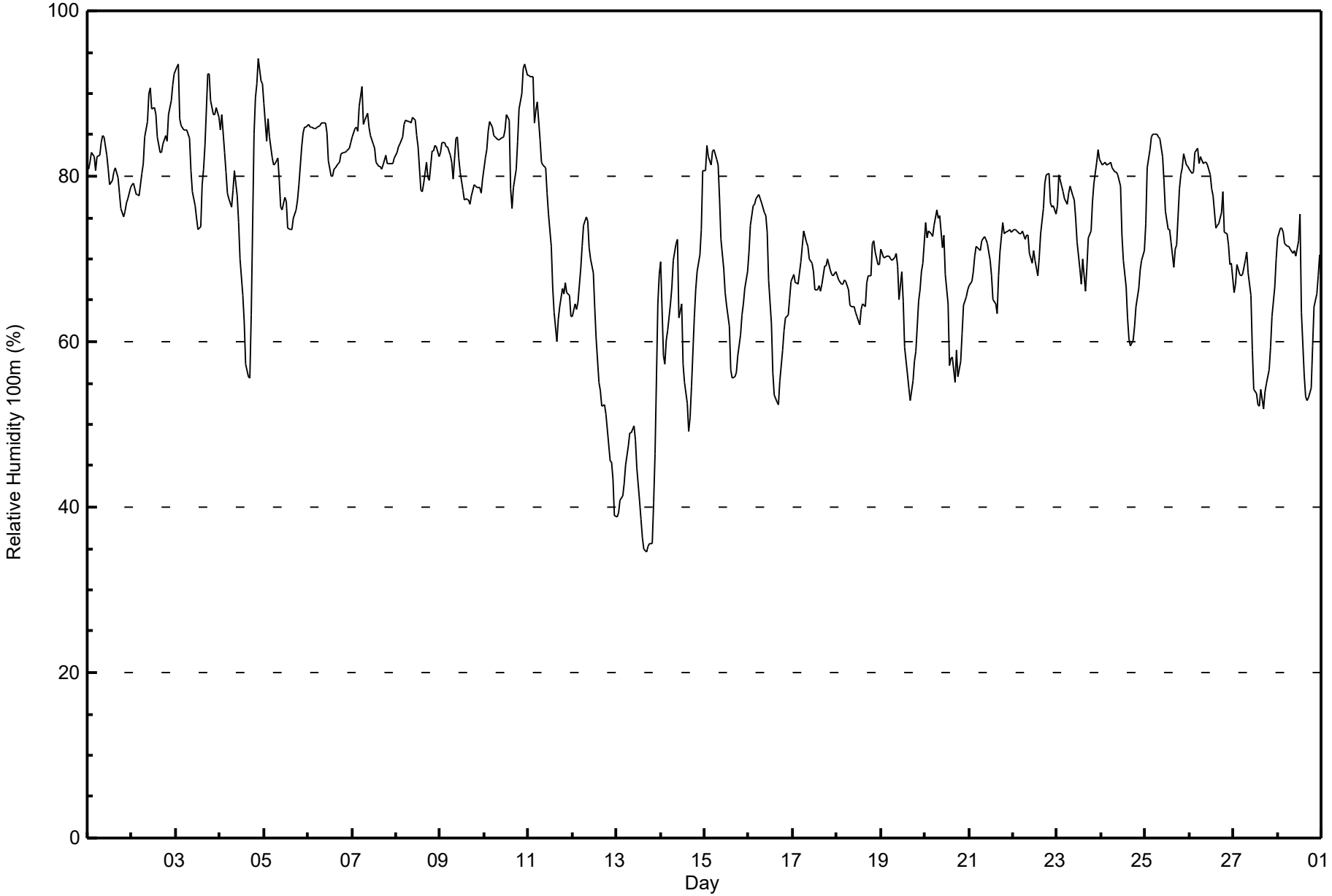
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	80.9	81.6	82.9	82.4	80.7	82.4	82.6	84.1	84.9	84.7	82.5	80.8	79.0	79.4	80.5	80.9	79.8	78.0	76.1	75.0	75.7	76.7	77.4	78.6	80.3	84.9
2-Feb	79.0	79.2	77.7	77.8	77.7	80.3	81.5	84.8	86.6	90.1	90.6	88.2	88.3	87.5	84.7	82.9	82.9	83.9	85.0	84.2	87.4	89.1	91.0	92.5	84.7	92.5
3-Feb	93.2	93.6	87.0	86.1	85.7	85.5	85.6	84.6	80.7	78.1	76.5	75.0	73.5	73.9	78.9	80.8	83.7	92.3	92.4	89.1	87.4	87.5	88.3	87.1	84.4	93.6
4-Feb	85.6	87.4	83.0	80.5	77.9	77.3	76.3	78.3	80.7	77.6	74.5	70.0	65.7	62.4	57.3	55.8	55.7	63.2	85.0	89.6	91.3	94.3	91.6	91.3	77.2	94.3
5-Feb	88.8	84.3	86.9	84.8	82.3	81.4	81.6	82.1	79.5	76.2	75.9	77.4	76.9	73.8	73.5	73.6	75.0	76.0	77.1	79.0	83.5	85.3	85.9	85.9	80.3	88.8
6-Feb	86.2	86.0	85.9	85.7	85.8	86.0	86.2	86.5	86.4	86.4	85.2	81.9	80.0	80.0	80.9	81.1	81.6	81.6	82.7	82.9	82.8	83.0	83.4	84.0	83.8	86.5
7-Feb	84.8	85.7	85.9	85.4	88.5	90.9	86.2	86.8	87.7	85.9	84.9	83.9	83.4	81.7	81.2	81.1	80.8	81.3	82.5	81.5	81.6	81.5	81.5	82.2	84.0	90.9
8-Feb	82.9	83.5	83.9	84.7	86.2	86.9	86.6	86.6	86.5	87.1	86.8	84.9	83.5	78.3	78.2	79.2	81.7	79.9	79.5	83.1	83.0	83.8	83.5	82.4	83.4	87.1
9-Feb	82.9	84.0	84.1	83.6	83.6	82.6	81.8	79.6	84.6	84.8	82.1	80.5	78.4	77.2	77.3	77.1	76.6	77.6	79.0	78.8	78.6	78.7	78.0	79.7	80.5	84.8
10-Feb	82.2	83.2	85.4	86.6	85.9	84.9	84.7	84.4	84.4	84.6	84.8	85.7	87.5	86.8	78.5	76.1	78.6	80.8	84.2	88.1	90.1	93.1	93.5	92.2	85.3	93.5
11-Feb	92.1	92.1	92.1	86.5	88.0	89.0	84.4	81.7	81.4	81.0	78.0	75.3	71.6	66.7	63.6	60.0	62.6	64.3	66.4	65.7	67.1	66.0	65.5	63.1	75.2	92.1
12-Feb	63.1	64.6	63.9	64.7	68.8	71.5	74.1	75.1	74.6	71.3	70.1	68.3	64.0	60.3	55.1	54.0	52.2	52.3	51.2	49.3	45.5	45.5	43.5	39.1	60.1	75.1
13-Feb	38.8	39.4	40.8	41.3	42.9	45.0	47.5	49.0	49.0	49.8	48.1	44.7	40.6	38.5	36.2	34.9	34.6	35.2	35.6	35.5	40.5	46.4	64.6	68.2	43.6	68.2
14-Feb	69.7	58.4	57.3	60.1	61.4	64.5	66.7	69.8	71.9	72.4	62.9	64.6	57.2	55.2	52.6	49.2	50.9	54.5	62.9	66.2	68.4	70.5	73.5	80.8	63.4	80.8
15-Feb	80.8	83.8	82.4	81.4	83.0	83.2	82.1	81.3	77.3	72.3	68.8	66.0	64.5	61.9	56.6	55.5	55.7	56.3	58.3	60.9	63.3	64.5	66.5	68.6	69.8	83.8
16-Feb	70.8	74.1	76.5	76.6	77.3	77.8	77.4	76.8	75.5	75.2	73.2	67.5	62.1	56.3	53.5	52.7	52.4	55.3	58.9	61.4	62.9	63.1	65.2	67.2	67.1	77.8
17-Feb	68.1	67.2	67.2	67.0	69.6	71.5	73.4	72.1	71.5	70.1	69.5	68.5	66.2	66.3	66.7	66.1	67.0	69.2	69.1	69.9	68.6	68.2	68.0	68.4	68.7	73.4
18-Feb	68.0	67.5	66.9	67.0	67.4	67.2	66.2	64.4	64.3	64.2	63.6	63.0	62.1	63.9	64.5	64.3	67.1	68.0	68.0	71.8	72.2	70.9	69.4	69.2	66.7	72.2
19-Feb	71.2	70.1	70.1	70.3	70.3	70.0	69.9	70.2	70.6	69.1	65.1	68.5	65.0	59.3	56.1	54.4	52.9	55.3	57.6	58.8	64.9	66.2	68.4	69.5	65.2	71.2
20-Feb	74.4	72.5	73.3	73.1	72.8	74.1	76.0	75.0	75.3	71.3	72.8	68.1	64.6	57.1	58.0	58.1	55.1	59.0	55.7	57.7	61.1	64.4	65.3	66.3	66.7	76.0
21-Feb	66.8	67.3	68.5	70.3	71.6	71.2	71.0	72.1	72.7	72.3	71.8	69.8	68.0	65.0	64.6	63.3	68.0	70.9	74.4	73.0	73.2	73.4	73.6	73.2	70.2	74.4
22-Feb	73.6	73.5	73.4	73.1	73.0	73.3	72.4	72.9	72.9	70.6	69.5	71.0	69.8	68.0	70.1	73.0	76.1	79.1	80.2	80.3	76.7	76.2	76.4	75.4	73.8	80.3
23-Feb	76.4	80.2	78.8	78.1	77.3	76.6	78.0	78.8	77.6	77.1	74.9	72.1	68.8	67.0	70.0	66.1	68.9	72.5	73.4	77.0	79.1	81.7	83.3	82.1	75.7	83.3
24-Feb	81.3	81.5	81.7	81.3	81.6	81.7	81.1	80.5	80.5	80.2	78.8	72.9	69.9	66.6	62.9	60.3	59.5	60.2	61.9	64.3	66.4	68.7	69.8	71.1	72.7	81.7
25-Feb	74.3	80.9	83.3	84.7	85.0	85.1	85.1	84.8	84.6	82.3	79.2	75.8	73.5	73.5	72.0	68.9	71.2	71.7	78.5	80.1	81.1	82.8	81.3	81.2	79.2	85.1
26-Feb	80.9	80.3	80.6	82.9	83.3	81.6	82.4	81.5	81.8	81.7	81.4	80.2	78.6	77.6	73.7	74.0	74.3	75.6	78.2	73.2	73.0	71.6	69.3	69.4	77.8	83.3
27-Feb	66.0	67.0	69.3	68.1	67.9	68.1	69.8	70.8	68.3	65.5	59.1	54.2	53.7	52.4	52.2	54.2	51.8	53.8	54.9	56.6	59.3	63.1	66.7	70.0	61.8	70.8
28-Feb	72.5	73.7	73.7	73.2	71.9	71.6	71.4	71.3	70.8	71.0	70.4	72.2	75.4	63.6	55.9	53.4	52.9	53.2	54.4	59.5	64.2	65.8	67.9	70.6	66.7	75.4
	76.3	76.5	76.5	76.3	76.7	77.2	77.2	77.4	77.2	76.2	74.3	72.5	70.4	67.9	66.3	65.4	66.1	67.9	70.1	71.2	72.5	73.6	74.7	75.3	Diurnal Average	
	93.2	93.6	92.1	86.6	88.5	90.9	86.6	86.8	87.7	90.1	90.6	88.2	88.3	87.5	84.7	82.9	83.7	92.3	92.4	89.6	91.3	94.3	93.5	92.5	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 100m (RH100) - %

Lower Camp Met Tower - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	10	1.49	1.49
40 - 60	77	11.46	12.95
60 - 80	351	52.23	65.18
80 - 100	234	34.82	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 163m (RH163) - %

Lower Camp Met Tower - February 2026

Maximum Value: 95.4 % on Feb 4 22:00

Maximum Daily Average: 86.3 % on Feb 3

Minimum Value: 33.1 % on Feb 13 20:00

Minimum Daily Average: 41.7 % on Feb 13

Maximum Diurnal Average: 76.1 % at hour 8

Minimum Diurnal Average: 65.2 % at hour 16

Monthly Average: 72.19 %

Percentiles: P_1 = 37.4 P_{10} = 55.4 Q_1 = 65.4 Median = 73.7 Q_3 = 82.1 P_{90} = 85.0 P_{99} = 92.9

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

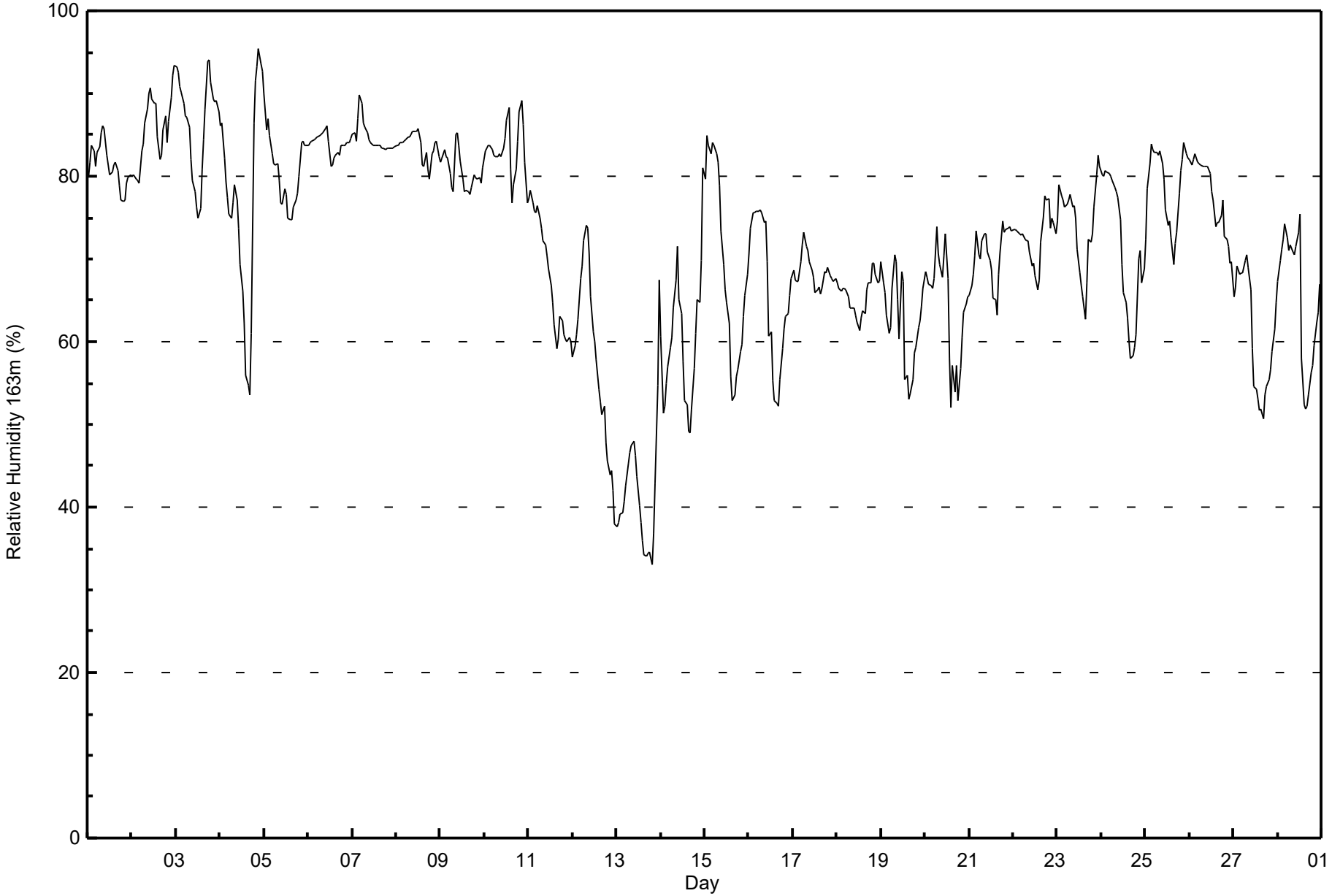
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	79.9	81.8	83.8	83.0	81.1	83.0	83.6	85.2	86.0	85.7	82.5	81.4	80.2	80.5	81.4	81.7	80.7	78.9	77.1	77.0	77.1	79.1	79.8	80.1	81.3	86.0
2-Feb	80.0	80.2	79.6	79.4	79.1	83.0	83.9	86.5	88.1	90.0	90.8	89.4	88.8	88.7	84.8	82.1	82.6	85.5	87.2	84.1	86.5	89.5	92.3	93.4	85.6	93.4
3-Feb	93.3	92.5	90.8	90.1	88.8	87.3	87.1	86.0	82.1	79.5	78.2	76.3	74.9	76.0	80.9	84.4	88.1	93.9	94.0	91.4	89.3	89.0	89.1	87.8	86.3	94.0
4-Feb	86.1	86.5	82.3	79.3	77.5	75.4	74.9	76.8	79.1	77.1	73.7	69.4	66.1	62.3	55.9	54.7	53.6	61.0	86.4	91.6	93.2	95.4	93.5	92.7	76.8	95.4
5-Feb	90.0	85.7	87.0	84.9	82.8	81.6	81.3	81.4	79.6	76.7	76.6	78.4	77.8	74.9	74.8	74.8	76.2	77.1	78.0	80.1	84.1	84.2	83.7	83.7	80.6	90.0
6-Feb	83.8	84.0	84.2	84.3	84.5	84.7	85.0	85.0	85.2	85.7	86.2	84.2	81.1	81.3	82.1	82.5	82.9	82.6	83.8	83.7	83.7	84.1	84.1	84.6	83.9	86.2
7-Feb	85.0	85.3	84.2	87.0	89.8	88.8	86.5	85.9	85.2	84.3	84.0	83.8	83.7	83.7	83.7	83.7	83.5	83.4	83.3	83.3	83.4	83.4	83.5	83.6	84.7	89.8
8-Feb	83.7	83.8	84.0	84.1	84.2	84.4	84.7	84.8	85.0	85.3	85.5	85.4	85.8	84.0	81.4	81.1	83.0	80.8	79.7	82.8	83.1	84.1	84.2	82.4	83.6	85.8
9-Feb	81.7	82.2	83.3	82.4	82.2	80.3	78.7	78.1	85.1	85.2	83.7	81.9	79.6	78.2	78.3	78.2	77.7	78.6	80.2	79.9	79.7	79.7	79.2	81.1	80.6	85.2
10-Feb	83.1	83.4	83.7	83.7	83.2	82.5	82.3	82.4	82.8	82.4	83.4	84.6	86.9	88.3	80.8	76.8	79.0	80.8	84.2	87.7	89.2	86.2	81.6	76.8	83.1	89.2
11-Feb	77.3	78.3	76.8	75.7	75.5	76.5	74.9	73.8	72.2	71.8	70.3	68.8	66.8	64.7	62.1	59.1	60.3	63.0	62.5	60.9	60.3	60.0	60.6	60.0	68.0	78.3
12-Feb	58.1	59.5	60.9	62.8	67.6	69.2	72.2	74.1	73.7	70.6	65.4	61.1	60.0	57.7	54.3	52.7	51.3	52.1	47.9	45.7	43.9	44.4	42.1	38.0	57.7	74.1
13-Feb	37.7	38.1	39.2	39.4	40.6	42.5	45.2	46.7	47.5	47.9	46.3	43.7	40.2	38.2	35.9	34.3	34.1	34.5	34.5	33.1	36.7	42.9	54.8	67.4	41.7	67.4
14-Feb	60.7	51.4	52.2	54.8	57.0	59.3	60.6	64.1	67.5	71.5	65.1	63.5	57.6	52.8	52.3	49.2	49.0	51.8	56.9	60.9	65.0	64.8	69.8	81.1	60.0	81.1
15-Feb	79.7	84.9	83.7	82.7	84.1	83.8	82.7	81.7	78.9	73.3	69.4	66.3	64.7	62.2	55.7	52.9	53.5	55.8	56.7	58.8	59.7	63.1	65.6	68.1	69.5	84.9
16-Feb	70.7	73.7	75.6	75.6	75.7	75.8	75.9	75.5	74.5	74.7	69.6	60.6	61.1	55.3	52.9	52.5	52.2	55.4	59.1	61.5	63.1	63.4	65.6	67.6	66.2	75.9
17-Feb	68.6	67.5	67.3	67.3	69.6	71.7	73.2	71.5	71.0	69.7	68.6	67.8	66.0	66.3	66.5	65.8	66.4	68.4	68.2	69.1	67.9	67.6	67.3	67.7	68.4	73.2
18-Feb	67.1	66.5	66.1	66.4	66.4	66.3	65.4	64.0	64.0	64.0	63.2	62.4	61.3	62.9	63.7	63.4	66.3	67.1	67.1	69.5	69.5	68.1	67.1	67.4	65.6	69.5
19-Feb	69.7	67.1	65.9	63.2	61.0	61.7	66.5	70.4	69.6	65.1	60.3	68.5	67.3	55.5	56.0	53.1	53.8	55.4	58.6	59.3	61.6	62.6	64.2	66.5	62.6	70.4
20-Feb	68.5	67.9	66.9	66.8	66.5	67.7	73.8	70.6	69.2	67.8	70.3	73.0	67.6	57.9	52.1	57.1	53.8	57.1	52.9	56.7	60.5	63.6	64.5	65.4	64.1	73.8
21-Feb	65.6	66.7	68.1	70.3	73.4	70.5	69.9	72.1	73.1	73.0	70.9	69.8	68.6	65.3	65.0	63.3	68.1	70.7	74.5	73.3	73.6	73.7	73.9	73.3	70.3	74.5
22-Feb	73.6	73.5	73.4	73.0	72.9	73.0	72.3	72.2	72.3	70.9	69.1	69.6	68.0	66.3	67.5	72.1	75.1	77.7	77.2	77.2	73.8	74.9	74.4	73.0	72.6	77.7
23-Feb	74.6	79.0	77.7	77.2	76.2	76.6	77.1	77.7	76.2	76.4	74.9	71.2	68.4	66.8	65.4	62.8	67.1	72.4	72.0	73.0	76.3	80.3	82.5	81.2	74.3	82.5
24-Feb	80.2	80.1	80.7	80.6	80.3	80.0	79.4	78.6	78.1	77.4	74.7	69.3	65.9	64.7	62.8	60.1	57.9	58.2	59.4	60.8	70.0	71.0	67.2	68.8	71.1	80.7
25-Feb	72.3	78.5	81.6	83.8	83.2	82.9	82.8	82.6	83.1	81.5	79.7	76.0	74.1	74.6	72.5	69.3	71.9	73.3	78.0	80.7	82.1	84.1	82.8	82.2	78.9	84.1
26-Feb	82.1	81.3	82.0	82.6	81.7	81.5	81.4	81.2	81.2	81.2	81.1	80.4	78.2	77.2	73.8	74.4	74.4	75.3	77.2	72.6	72.4	71.6	69.4	69.6	77.7	82.6
27-Feb	65.4	66.6	69.2	68.2	68.3	68.4	69.8	70.5	69.1	66.2	59.2	54.6	54.2	53.0	51.7	51.9	50.6	53.5	54.6	55.4	56.6	58.9	61.5	64.8	60.9	70.5
28-Feb	67.3	69.7	71.2	72.4	74.3	72.5	71.0	71.8	70.8	70.5	71.5	73.2	75.4	58.0	52.3	51.9	52.3	53.6	56.3	57.1	59.5	62.4	63.5	67.0	65.2	75.4
	74.5	74.8	75.0	75.0	75.3	75.4	75.8	76.1	76.1	75.2	73.4	71.9	70.4	67.8	65.9	65.2	65.9	67.8	69.6	70.3	71.5	72.6	73.1	74.1	Diurnal Average	
	93.3	92.5	90.8	90.1	89.8	88.8	87.1	86.5	88.1	90.0	90.8	89.4	88.8	88.7	84.8	84.4	88.1	93.9	94.0	91.6	93.2	95.4	93.5	93.4	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 163m (RH163) - %

Lower Camp Met Tower - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	13	1.93	1.93
40 - 60	90	13.39	15.33
60 - 80	345	51.34	66.67
80 - 100	224	33.33	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 20m (WS20) - km/h

Lower Camp Met Tower - February 2026

Maximum Speed: 27 km/h on Feb 13 04:00

Maximum Daily Speed Average: 18.3 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 2 11:00

Minimum Daily Speed Average: 0.4 km/h on Feb 10

Maximum Diurnal Speed Average: 3.3 km/h at hour 21

Minimum Diurnal Speed Average: 1.0 km/h at hour 16

Monthly Average Velocity: 2.1 km/h 20.2 deg

Percentiles: $P_1 = 1$ $P_{10} = 2$ $Q_1 = 5$ Median = 8 $Q_3 = 12$ $P_{90} = 17$ $P_{99} = 24$

Hours in Service: 672

Hours of Data: 672

Hours of Missing Data: 0

Percent Operational Time: 100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ENE5	ENE5	ENE5	ESE3	ESE5	ESE5	SE6	ESE5	ESE7	SE12	SE16	SE16	ESE12	SE10	ESE15	SE16	ESE14	SE12	SE15	ESE18	SE17	ESE16	SE11	SE12	ESE10.5	ESE18
2-Feb	SSE20	SSE19	SE18	SE10	SE17	SE12	SE8	SE8	SE5	SSE1	E0	ESE4	SE7	SE6	ESE4	SE6	E2	SE2	NNW3	NW2	NW3	NNW6	NNW6	N5	SE5.2	SSE20
3-Feb	NNW6	N10	N9	N7	NNW4	N6	N4	NNE6	NNE7	N5	N4	NW4	NW4	S2	SSE5	SE1	NNW2	SE5	SE10	SE11	SE13	SE16	SE15	SE15	E2.5	SE16
4-Feb	SSE14	SE14	SE23	SE22	SE18	SE10	SSW5	W5	SW4	WSW13	WSW12	WSW12	SSE6	S5	WSW11	WSW13	WSW11	NW9	N16	N14	N14	N15	N13	N12	SW1.6	SE23
5-Feb	N12	N13	N17	N15	N15	NNW18	NNW18	NNW16	N12	N15	N12	N10	N8	N6	NNW5	N6	NE6	NE4	N4	N7	N5	N5	NNW5	NNW4	N9.6	NNW18
6-Feb	NW4	NW4	NNW3	NNW5	NNW5	NNW3	NNW5	NNW5	NNW4	NNW6	N7	ESE6	ESE12	ESE12	SE9	SE10	SE7	SE5	SSE2	SE4	SSE1	NNW4	NNW5	NW2	ENE1.3	ESE12
7-Feb	NNW3	NW2	NNW4	NNW2	N6	N11	NNW11	N12	N13	N12	N13	N13	N13	N12	N9	N11	NNW11	N8	NNW8	NNW9	NNW8	NNW7	NNW6	NNW6	N8.5	N13
8-Feb	NNW6	NNW5	NW6	NW6	NW7	NW6	NW6	NW5	NNW3	NNW4	NW7	NW8	NNW9	NNW10	NNW9	N9	N10	N8	N6	N6	NNW7	N4	N4	N2	NNW6.2	NNW10
9-Feb	NNW2	NNW1	NNW3	NW2	NNW3	NNW3	NNW5	NNW3	NNW4	NNW5	NNW8	NNW8	NNW11	N11	NNW12	NNW12	N13	NNW11	NNW11	N11	NNW10	NNW9	NNW6	NNW7	NNW7.0	N13
10-Feb	NNW6	NNW4	NW5	NNW5	NNW4	NNW4	NNW4	NNW3	NNW2	N3	N1	NE1	W1	N2	N1	SE8	SE9	S6	SSE6	N2	NNW3	SE6	SE5	SSE4	NNE0.4	SE9
11-Feb	SSW2	NW2	SE7	SE13	SE13	SE8	SE8	SE12	SE13	SE14	SE16	SE15	SE13	SE12	SE11	SE9	SE7	SE4	SE8	SE5	SE8	SE10	SE4	SE8	SE9.0	SE16
12-Feb	SE11	SE12	SE12	SSE5	SE5	S4	SE3	SSE6	SE9	SE15	SE11	SE8	SE13	SE14	S12	SE17	SSE19	SE17	SSE24	SSE26	SSE22	S18	SSW16	SW21	SSE11.8	SSE26
13-Feb	SW18	SW21	WSW25	WSW27	WSW24	WSW20	WSW13	SW10	WSW11	WSW14	WSW17	WSW17	WSW17	SW14	SW12	SW11	SW8	SSW2	NNW2	S2	SSE1	W2	SW1	SSW1	WSW11.8	WSW27
14-Feb	SSE2	SSW3	SSE7	SE10	SE11	SE12	SE12	SE8	SE10	SE6	SE2	ESE1	NNW2	WNW0	SSW3	WSW1	W2	NNW7	NW3	NW3	W1	NW1	NNW5	NNW7	SE2.2	SE12
15-Feb	NNW3	N11	N11	N11	N10	N10	NNW9	NNW9	N11	N11	N10	N11	N11	NNW9	NNW7	WNW5	NNW4	N7	N5	N5	NNW5	WNW2	NW2	NNW5	N7.4	N11
16-Feb	NW2	NW3	NW4	NNW3	WNW3	NNW2	NW3	NNW3	NW3	NW2	N4	NNW4	NW8	NNW8	NNW11	NNW11	N13	N10	NNW10	NNW11	NNW11	NNW14	NNW14	N15	NNW6.9	N15
17-Feb	N13	N12	N11	N10	N10	N16	N17	N14	N16	N18	N19	N21	N24	N21	N22	N23	N23	N21	N21	N18	N22	N22	N22	N20	N18.3	N24
18-Feb	N20	N23	N23	N22	N19	N18	N23	N24	N20	N20	N20	N19	N17	N15	NNW16	N13	NNW11	NNW9	NNW7	NW5	WNW1	W0	S1	E1	N14.3	N24
19-Feb	E2	SE5	SE8	SE9	SE8	SE11	SE10	SE13	SE10	SE11	SE13	SE12	SE9	SE14	SE15	SE14	SSE15	SSE14	SSE15	SE12	ESE7	SE10	SE6	SE8	SE10.3	SSE15
20-Feb	SE13	SE12	SE11	SE13	SE13	SE10	SE9	SE9	SE11	SE9	SE10	SE6	SSE4	S2	WSW4	W5	NNW8	NNW6	NNW9	NNW11	NNW11	NNW8	NNW8	NNW7	ESE2.8	SE13
21-Feb	NNW6	NNW6	NNW7	NNW5	NNW5	NNW2	NNW2	NNW2	NW3	NW3	WNW4	NW5	NNW9	N11	N11	N13	NNE12	NNE10	N11	NNE14	N14	N12	N12	N12	N7.4	NNE14
22-Feb	N9	NNW9	NNW11	NNW11	NNW9	NNW8	NNW11	NNW8	NNW6	NNW7	NW7	NW8	NW7	NW8	NW8	NW6	NW5	NW4	NW4	NNW4	N6	ESE8	ESE11	ESE11	NNW5.4	ESE11
23-Feb	SE7	SE6	SE8	SSE6	SSE8	SE7	SE4	S2	N0	S4	SSW5	SW4	SSW3	SW6	SW5	S2	SE6	SSE5	E1	NNW3	NW1	NW1	NNW4	NNW2	SSE2.7	SSE8
24-Feb	SE1	ESE4	SE4	SE4	SE4	SE7	SE9	SE10	SE13	SE11	SE11	SE10	SE9	SE7	SE9	SE7	SE6	SE4	SE3	ESE4	ESE7	ESE6	SE4	SE3	SE6.4	SE13
25-Feb	SE1	NW2	NW4	NNW2	NNW4	WNW2	NNW2	NNW0	S0	S1	SE8	SE11	SE8	SE7	SSE4	SSE3	SE5	N3	NNW8	NNW9	N12	N14	N14	N12	NNE1.9	N14
26-Feb	N13	N12	NNW12	NNW8	NW7	N11	NNW11	NNW12	N11	NNW13	N16	N18	N22	N20	N21	N18	N22	NNW23	NNW21	NNW27	NNW24	NNW22	NNW21	NNW17	NNW16.6	NNW27
27-Feb	N20	N14	NNW13	N13	NNW13	N11	NNW7	NNW5	NNW5	NNW8	NNW11	NNW8	NNW8	NNW7	NW5	W5	N6	NNW4	N4	NW2	NW2	NW3	NW3	NNW2	NNW7.2	N20
28-Feb	SW1	SE1	SE6	SE10	SE10	SE9	SE12	SE13	SSE11	SSE9	SE11	SE14	SE14	SE20	SE21	SSE24	SSE22	SE11	SE15	SE9	ESE9	ESE10	SE18	SE10	SE11.9	SSE24
	N2.0	N2.2	NNE1.8	NNE1.2	NE1.0	NNE2.0	N2.4	NNE2.0	NE2.1	NNE2.0	NNE2.2	NNE1.8	NNE2.5	NE2.1	NNE1.2	NE1.0	NNE1.9	NNE2.6	NNE2.7	NNE3.2	NNE3.3	NNE2.9	NNE3.0	N2.5	Diurnal Average	
	N20	N23	WSW25	WSW27	WSW24	WSW20	N23	N24	N20	N20	N20	N21	N24	N21	N22	SSE24	N23	NNW23	SSE24	NNW27	NNW24	N22	N22	SW21	Diurnal Maximum	

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 20m (WS20) - km/h

Lower Camp Met Tower - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 10 km/h on Feb 26 21:00

Minimum Value: 1 km/h on Feb 18 23:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 3 Q_3 = 4 P_{90} = 5 P_{99} = 8

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

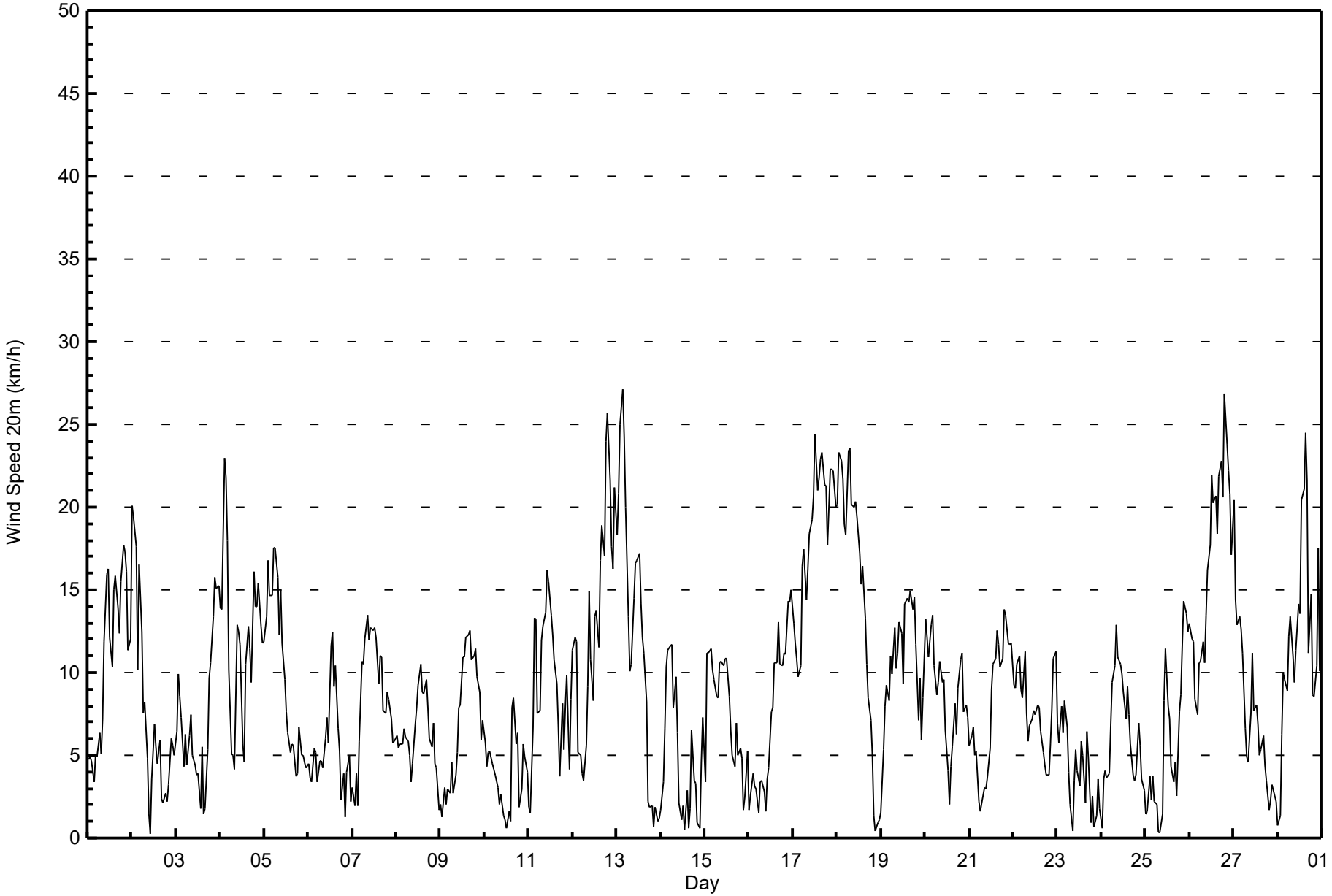
Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	3	2	2	2	2	2	3	3	4	6	5	5	4	5	5	5	5	5	6	6	5	5	6	6
2-Feb	4	3	5	3	3	5	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	2	2	2	5
3-Feb	3	4	4	3	2	2	2	3	3	2	2	1	2	1	2	1	1	2	3	3	4	4	4	6	6
4-Feb	5	6	6	4	6	3	3	3	3	4	5	6	2	2	3	4	5	5	6	5	4	5	4	4	6
5-Feb	4	5	5	5	5	5	6	5	4	5	4	3	3	2	2	2	2	2	1	3	2	2	2	2	6
6-Feb	2	2	2	2	2	2	2	3	2	2	3	5	4	5	4	3	3	3	2	2	1	2	2	1	5
7-Feb	2	1	2	1	3	4	4	4	4	4	4	4	4	4	3	3	3	3	2	3	3	3	2	2	4
8-Feb	2	2	2	2	2	2	2	2	1	1	3	3	4	4	3	3	3	2	2	2	2	1	2	1	4
9-Feb	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	3	3	2	3	4
10-Feb	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	5	2	2	1	2	2	3	3	2	5
11-Feb	1	1	3	4	4	1	2	2	3	2	3	3	5	3	2	2	3	2	2	3	2	2	2	2	5
12-Feb	2	1	2	3	3	2	1	2	3	2	2	3	4	3	3	4	3	3	4	3	3	2	4	4	4
13-Feb	3	4	5	5	5	5	4	4	4	5	4	4	4	3	2	2	1	3	1	2	2	3	1	1	5
14-Feb	1	1	3	1	2	2	2	2	2	2	1	1	2	1	1	1	1	3	2	2	1	1	4	6	6
15-Feb	3	4	4	3	4	3	3	3	4	3	4	4	3	3	3	2	2	3	2	3	2	1	1	2	4
16-Feb	2	1	1	1	2	1	1	1	1	1	1	2	3	3	4	3	4	3	4	4	4	5	4	4	5
17-Feb	4	4	3	4	4	6	6	6	6	6	6	8	8	7	7	7	8	6	7	6	7	7	7	7	8
18-Feb	7	7	8	7	7	6	8	7	7	7	6	6	6	5	5	4	4	3	3	2	1	1	1	1	8
19-Feb	1	2	2	2	1	2	2	3	3	3	3	3	3	4	4	3	2	1	2	4	3	3	2	2	4
20-Feb	2	2	2	3	3	2	2	2	2	1	3	2	1	1	1	2	4	3	4	3	4	3	2	2	4
21-Feb	2	2	2	2	2	2	1	2	1	1	2	2	3	4	4	4	4	3	4	5	4	4	4	4	5
22-Feb	3	3	3	4	4	3	4	3	2	2	2	3	3	3	3	2	2	2	1	2	3	4	4	4	4
23-Feb	3	2	3	2	2	2	1	1	1	2	2	1	1	2	2	1	3	1	1	2	1	1	1	1	3
24-Feb	1	2	2	2	1	2	2	2	2	2	2	2	3	2	2	3	2	1	2	2	2	2	1	1	3
25-Feb	1	1	1	2	1	1	1	1	1	2	3	3	2	2	1	1	1	2	3	3	4	4	4	4	4
26-Feb	5	4	4	4	3	4	3	4	3	4	5	6	6	7	8	6	8	8	7	9	10	8	7	6	10
27-Feb	7	6	5	5	5	4	2	2	2	4	4	3	3	3	3	3	2	1	2	1	1	1	1	1	7
28-Feb	1	1	2	1	2	3	1	1	2	2	3	3	4	3	4	3	4	2	2	4	4	2	3	5	5
	7	7	8	7	7	6	8	7	7	7	6	8	8	7	8	7	8	8	7	9	10	8	7	7	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 20m (WS20) - km/h

Lower Camp Met Tower - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	223	33.18	33.18
6 - 11	249	37.05	70.24
12 - 19	152	22.62	92.86
20 - 28	48	7.14	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 672

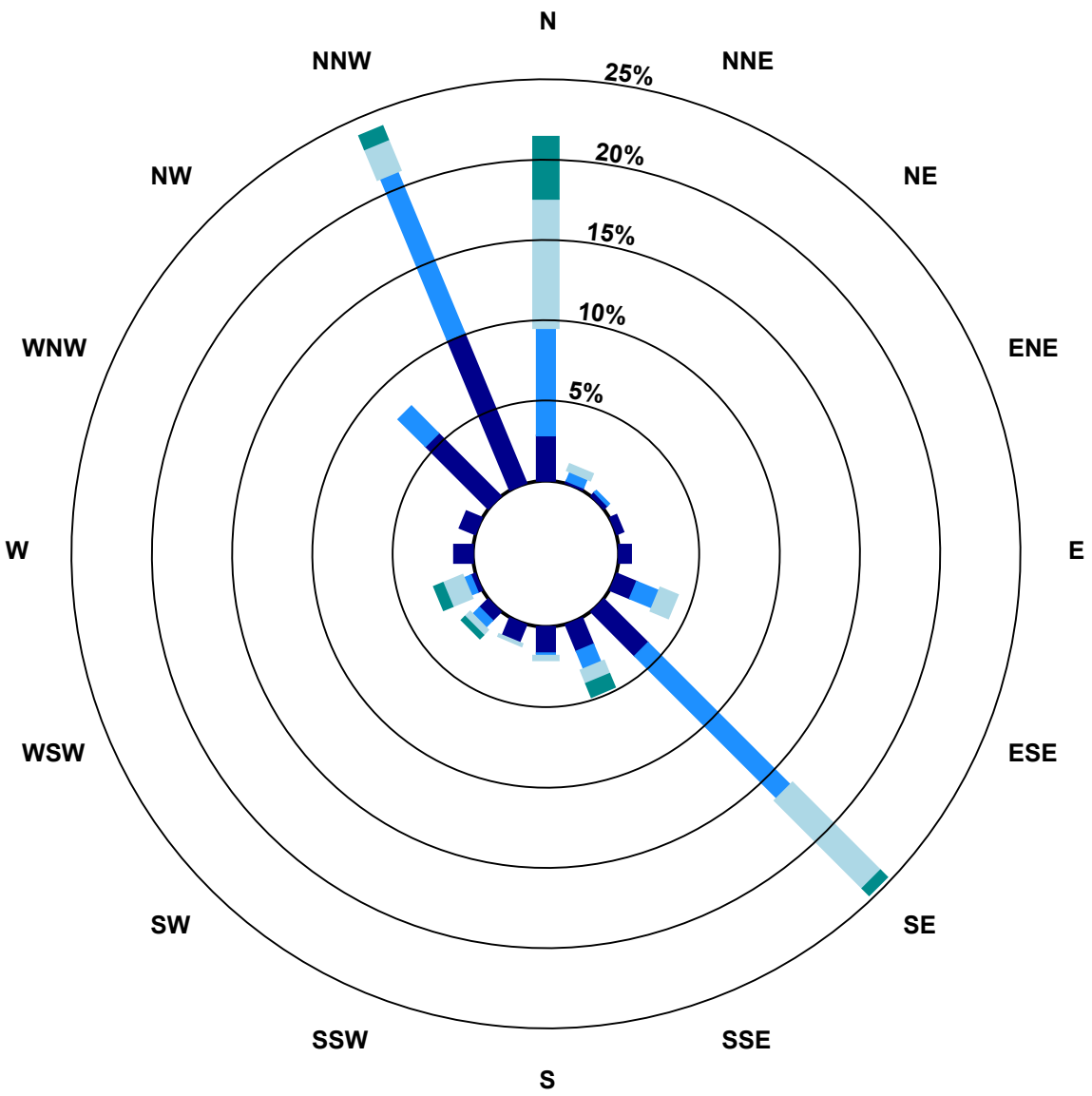
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 20m (WS20) - km/h

Lower Camp Met Tower



Classes (km/h)

- 0 - 5
- 6 - 11
- 12 - 19
- 20 - 28
- 29 - 38
- > 38

Total Number of Valid Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 45m (WS45) - km/h

Lower Camp Met Tower - February 2026

Maximum Speed: 38 km/h on Feb 26 20:00

Maximum Daily Speed Average: 28.0 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 23 22:00

Minimum Daily Speed Average: 0.7 km/h on Feb 10

Maximum Diurnal Speed Average: 5.4 km/h at hour 21

Minimum Diurnal Speed Average: 2.3 km/h at hour 16

Monthly Average Velocity: 4.0 km/h 19.5 deg

Percentiles: P_1 = 1 P_{10} = 4 Q_1 = 7 Median = 12 Q_3 = 17 P_{90} = 25 P_{99} = 36

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE9	ENE8	ENE7	ESE5	ESE8	ESE9	SE9	ESE8	ESE11	ESE19	ESE25	SE23	ESE18	ESE16	ESE24	ESE24	ESE21	SE20	SE25	ESE27	SE30	ESE26	ESE19	SE17	ESE16.4	SE30
2-Feb	SSE23	SE24	SE26	SE17	SE21	SE20	SE14	SE15	SE12	SE4	ESE3	ESE5	SE8	SE6	ESE6	SE7	ESE4	SE3	N4	NNW4	NNW6	N10	NNW8	N8	SE7.7	SE26
3-Feb	N10	N15	N13	N11	NNW7	N11	N7	NNE9	NNE11	N7	N6	NNW5	NW4	SSE2	SE7	SE3	WSW1	SE9	SE13	SE15	SE18	SE21	SE22	SE23	ENE4.0	SE23
4-Feb	SSE17	SE23	SE29	SE27	SE23	SE17	SW9	WSW14	WSW11	WSW20	WSW19	WSW17	S5	SSW4	WSW16	WSW19	WSW20	NNW15	N25	N21	N22	N23	N19	N19	WSW2.4	SE29
5-Feb	N20	N22	N25	N24	N22	NNW25	N26	N23	N19	N22	N16	N13	N10	N8	N7	N7	NE8	NE5	N5	N11	N7	N7	NNW7	NNW6	N14.2	N26
6-Feb	NNW8	NNW6	NNW6	NNW7	NNW8	NNW5	NNW7	NNW7	NNW7	NNW7	N7	ESE10	ESE17	ESE19	ESE13	SE15	SE9	SE7	SE3	SE5	SE3	N0	NNW5	NNW5	ENE2.4	ESE19
7-Feb	NW5	NNW6	NNW7	NNW5	N9	N15	NNW16	N19	N20	N18	N19	N18	N19	N17	N13	N15	N16	N12	N11	N13	N12	NNW11	NNW9	NNW9	N13.0	N20
8-Feb	NNW9	NNW8	NNW7	NW7	NW9	NW8	NW8	NW7	NNW5	NNW6	NW9	NW11	NNW12	NNW15	NNW12	N13	N15	N13	N10	N8	N10	N7	N6	N3	NNW8.9	NNW15
9-Feb	N3	NNW4	NNW6	NNE3	N3	NNW6	NNW8	N5	N6	N8	N11	NNW11	N14	N15	N17	NNW17	N19	N16	NNW16	N17	N15	N13	NNW10	NNW11	N10.5	N19
10-Feb	NNW9	NNW7	NW8	NNW8	NNW6	NNW6	NNW5	NNW4	NNW3	NNW3	NW2	NNE0	W2	NNW0	SE2	SE11	SE10	SSE8	SSE9	SW2	NW2	SE11	ESE11	SE11	E0.7	ESE11
11-Feb	SSE7	SSE3	SE12	SE17	SE14	SE11	SE13	SE17	ESE16	ESE14	ESE17	SE19	SE19	SE15	SE10	SSE6	SSE11	SSE10	SE10	SE10	SE13	ESE13	SE8	SE12	SE12.2	SE19
12-Feb	SE16	SE13	SE8	SW8	S4	WSW8	SSW3	SSW6	SSW8	SE12	ESE14	SE15	SE15	SE18	S15	SSE20	SSE23	SSE22	SSE30	SSE31	S27	S21	SW21	SW26	SSE13.5	SSE31
13-Feb	SW23	SW27	WSW34	WSW36	WSW34	WSW29	WSW21	SW16	SW16	WSW22	WSW24	WSW22	WSW23	SW18	SW16	SW14	SW12	SSW7	S1	SSW8	SW4	W6	ESE0	SSW3	WSW17.0	WSW36
14-Feb	SE7	SE8	SE12	SE14	SE15	SE16	ESE14	SE9	SE11	SE7	E2	ENE1	NNW2	W1	S3	WSW1	SSW1	NNW12	NNW8	NNW8	WNW1	NNW2	NNW8	NNW11	ESE3.0	SE16
15-Feb	NNW6	N18	N16	N17	N16	N14	NNW13	NNW12	N16	N16	N15	N17	N15	NNW11	NNW9	WNW6	NNW8	N12	N11	N9	N7	NNW3	NW4	NNW8	N11.2	N18
16-Feb	NW4	NNW3	NNW5	NW5	N5	NNE2	NNW3	NW4	NNW5	NW4	NW3	NW5	NW10	NNW10	NNW15	NNW15	N20	N17	NNW16	NNW17	NNW17	N21	N20	N24	NNW10.1	N24
17-Feb	N20	N18	N17	N15	N16	N26	N26	N23	N25	N28	N29	N31	N36	N31	N33	N35	N38	N33	N33	N27	N34	N34	N34	N31	N28.0	N38
18-Feb	N31	N36	N35	N33	N28	N29	N36	N36	N32	N30	N31	N29	N25	N22	N24	N20	NNW15	NNW13	NNW12	NW8	NW5	NNW2	SSW2	SSE3	N21.8	N36
19-Feb	SSW3	SE6	SE10	ESE11	SE10	SE14	SE11	SE16	SE15	SE16	SE17	SE17	SE13	SE20	SE19	SE17	SSE17	SSE18	SSE20	SE18	SE13	SE14	SE11	SE13	SE13.6	SSE20
20-Feb	SE14	SE15	ESE14	SE16	ESE15	SE13	SE11	SE11	SE10	ESE9	SE10	SE7	SE4	SSE1	W4	WNW7	NNW13	NNW12	NNW16	N18	N17	NNW14	NNW14	NNW13	ENE3.6	N18
21-Feb	NNW12	NNW12	NNW12	NNW10	NNW11	NNW7	NNW4	NW4	NNW5	NW5	WNW4	NW7	NNW12	N15	N16	N19	NNE17	NNE15	N17	NNE21	N21	N18	N19	N19	N12.0	N21
22-Feb	N16	NNW14	N16	NNW16	NNW14	NNW13	NNW16	NNW12	NNW9	NNW11	NW9	NW9	NW9	NW9	NW10	NW9	NNW8	NNW7	NNW6	NNW6	NE5	ESE13	ESE16	ESE18	NNW7.6	ESE18
23-Feb	ESE12	SE8	SE11	SE8	SE10	SE8	SE5	S4	WNW1	S4	SSW5	WSW3	SW2	SW5	SW5	S2	SE6	SE7	SE5	NNW4	NE1	WNW0	WNW4	W1	SSE3.4	ESE12
24-Feb	SW0	SE8	SE10	SE7	SE8	SE11	SE14	ESE13	ESE14	ESE12	ESE11	ESE10	ESE10	ESE9	SE11	ESE9	ESE9	ESE8	ESE9	SE11	ESE12	ESE11	ESE7	ESE6	ESE9.5	ESE14
25-Feb	SE5	ESE1	NNW4	NNW4	NNW5	NNW5	NW4	NNW2	SW3	SSE3	SE10	SE14	SE10	SE8	SE5	SE3	ESE6	N4	NNW13	N14	N19	N23	N22	N21	NNE4.0	N23
26-Feb	N21	N20	NNW17	NNW13	NNW12	N17	N16	N18	N18	N20	N25	N27	N34	N32	N32	N28	N33	N34	NNW30	NNW38	NNW35	NNW32	NNW31	N26	N25.2	NNW38
27-Feb	N32	N21	N19	N20	N19	N17	NNW11	NNW8	NNW8	N11	NNW15	NNW10	NNW9	NNW8	NW6	WNW6	N8	N9	N9	N6	NNW3	NNW5	NNW4	NW4	N10.8	N32
28-Feb	SSE1	SE8	SE13	SE12	ESE10	ESE11	SE13	SE14	SE11	SE11	SE13	SE17	SE19	SE24	SE25	SSE27	SSE25	SE14	SE17	SE16	ESE12	SE15	SE22	SE17	SE15.1	SSE27
	NNE4.1	NNE4.2	NNE3.8	NNE3.0	NNE2.9	NNE4.0	N4.2	NNE3.8	NNE4.0	NNE3.9	NNE4.0	NNE3.3	NNE4.1	NE3.7	NNE2.8	NNE2.3	NNE3.4	NNE4.3	NNE4.8	NNE5.3	NNE5.4	NNE4.9	NNE4.9	NNE4.3	Diurnal Average	
	N32	N36	N35	WSW36	WSW34	WSW29	N36	N36	N32	N30	N31	N31	N36	N32	N33	N35	N38	N34	N33	NNW38	NNW35	N34	N34	N31	Diurnal Maximum	

All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 11 km/h on Feb 26 21:00

Minimum Value: 1 km/h on Feb 18 23:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 2 Q_3 = 4 P_{90} = 5 P_{99} = 8

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

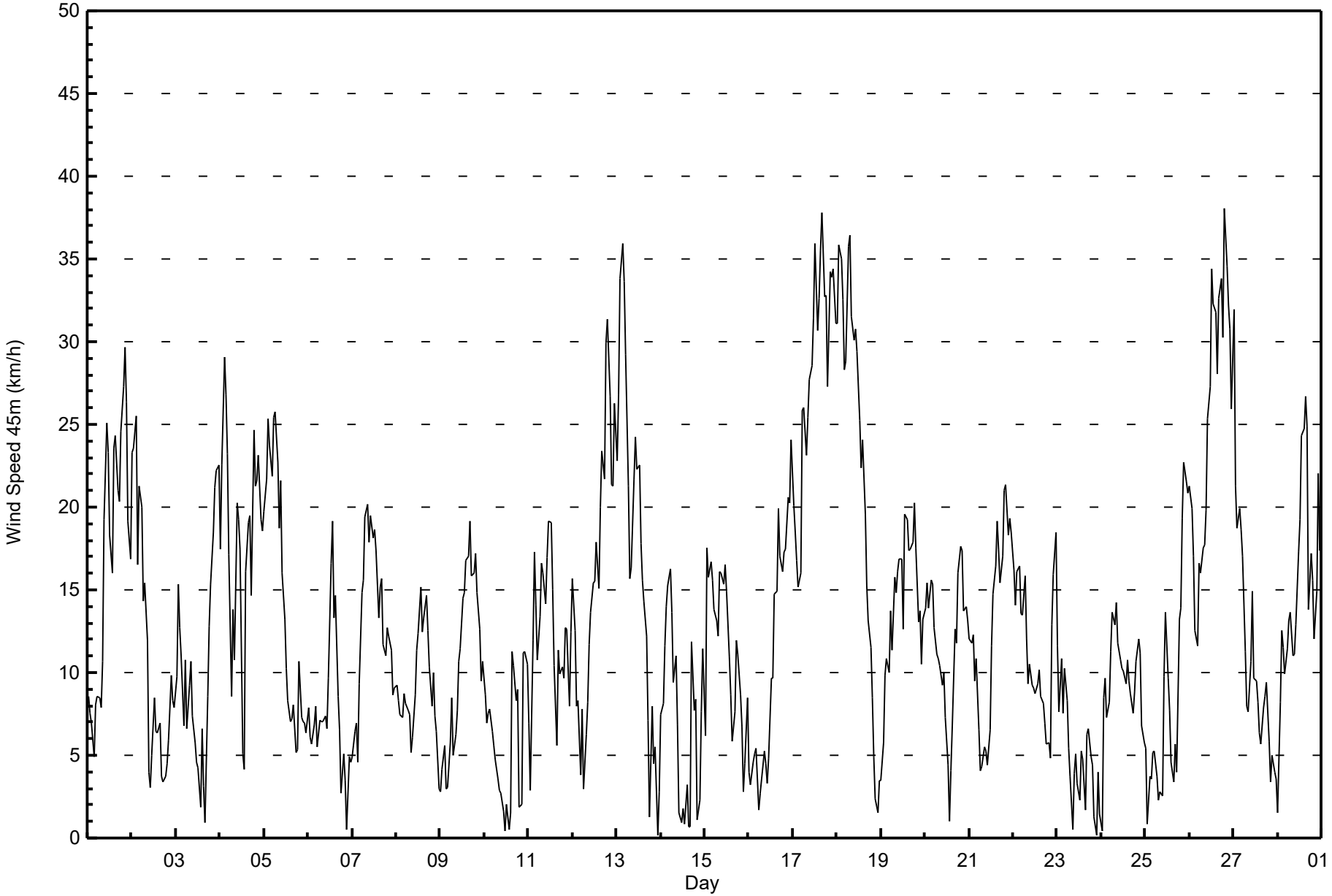
Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	3	3	2	2	3	2	2	3	4	5	5	4	5	4	5	4	4	4	5	5	4	4	5	5	5
2-Feb	4	4	4	4	4	4	3	3	4	2	2	3	2	2	2	2	1	1	2	1	1	3	2	2	4
3-Feb	3	4	4	3	3	3	2	3	3	2	1	1	1	1	2	2	1	2	2	3	3	4	4	6	6
4-Feb	5	5	5	3	5	2	3	4	4	4	5	8	2	2	2	3	5	8	6	4	4	4	3	4	8
5-Feb	4	4	4	5	5	5	5	5	4	5	5	3	3	2	2	2	2	3	2	3	2	2	1	1	5
6-Feb	2	2	1	2	1	2	3	3	2	2	3	7	4	5	5	4	3	4	2	2	2	1	2	2	7
7-Feb	2	3	2	1	4	4	3	5	3	4	3	3	2	3	3	3	3	3	2	2	2	3	2	2	5
8-Feb	2	2	2	2	2	2	2	2	1	1	2	3	4	3	3	3	3	2	2	2	1	1	2	1	4
9-Feb	1	1	1	1	2	2	2	3	3	3	2	2	2	2	2	3	2	3	3	3	2	2	2	3	3
10-Feb	2	2	1	2	2	1	1	1	1	1	1	1	1	1	2	5	2	2	2	1	2	5	3	2	5
11-Feb	2	2	3	3	5	1	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	1	2	1	5
12-Feb	2	2	2	4	3	4	2	2	3	3	2	2	3	2	4	5	3	3	4	4	4	3	4	4	5
13-Feb	4	5	4	4	4	4	4	5	4	6	3	3	3	3	2	2	1	4	2	3	3	2	1	1	6
14-Feb	2	1	3	1	2	1	2	1	3	2	1	1	1	1	1	1	1	6	2	3	1	1	7	8	8
15-Feb	6	4	4	3	5	3	3	3	3	3	3	3	3	3	3	2	3	2	3	5	3	2	2	2	6
16-Feb	3	1	2	1	1	1	1	1	1	2	1	2	2	3	4	3	5	3	4	4	4	4	4	3	5
17-Feb	4	5	3	4	3	5	6	6	5	6	7	8	8	7	7	7	8	6	7	6	7	6	7	8	8
18-Feb	8	7	8	7	6	6	8	7	8	7	6	6	6	5	5	5	4	4	3	2	1	1	1	2	8
19-Feb	1	2	1	1	2	2	1	2	3	2	2	3	3	3	3	3	2	1	2	1	3	2	2	1	3
20-Feb	1	1	2	3	2	2	1	2	2	1	3	2	1	1	2	2	5	3	4	2	4	2	3	2	5
21-Feb	2	2	2	2	2	3	1	1	1	1	2	3	3	4	5	5	4	3	4	4	3	4	3	3	5
22-Feb	3	3	3	3	4	3	3	2	2	2	2	2	2	2	2	2	2	2	1	2	3	4	4	4	4
23-Feb	4	2	3	2	2	2	1	1	1	2	2	1	1	2	2	1	3	1	2	1	1	1	2	2	4
24-Feb	1	2	1	2	1	1	1	1	1	2	1	1	2	2	2	3	2	2	2	1	2	1	2	2	3
25-Feb	1	2	3	3	2	1	1	1	1	1	2	2	3	2	2	1	1	3	2	2	5	4	3	4	5
26-Feb	5	4	4	5	3	5	3	3	3	3	4	6	6	7	8	7	8	7	8	9	11	7	7	6	11
27-Feb	7	6	4	4	4	4	3	2	2	4	3	3	3	3	3	2	2	2	1	2	1	1	2	1	7
28-Feb	1	1	1	1	1	2	2	2	2	2	3	3	4	2	2	3	3	2	1	1	3	3	2	3	4
	8	7	8	7	6	6	8	7	8	7	7	8	8	7	8	7	8	8	8	9	11	7	7	8	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 45m (WS45) - km/h

Lower Camp Met Tower - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	123	18.30	18.30
6 - 11	211	31.40	49.70
12 - 19	208	30.95	80.65
20 - 28	87	12.95	93.60
29 - 38	43	6.40	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 672

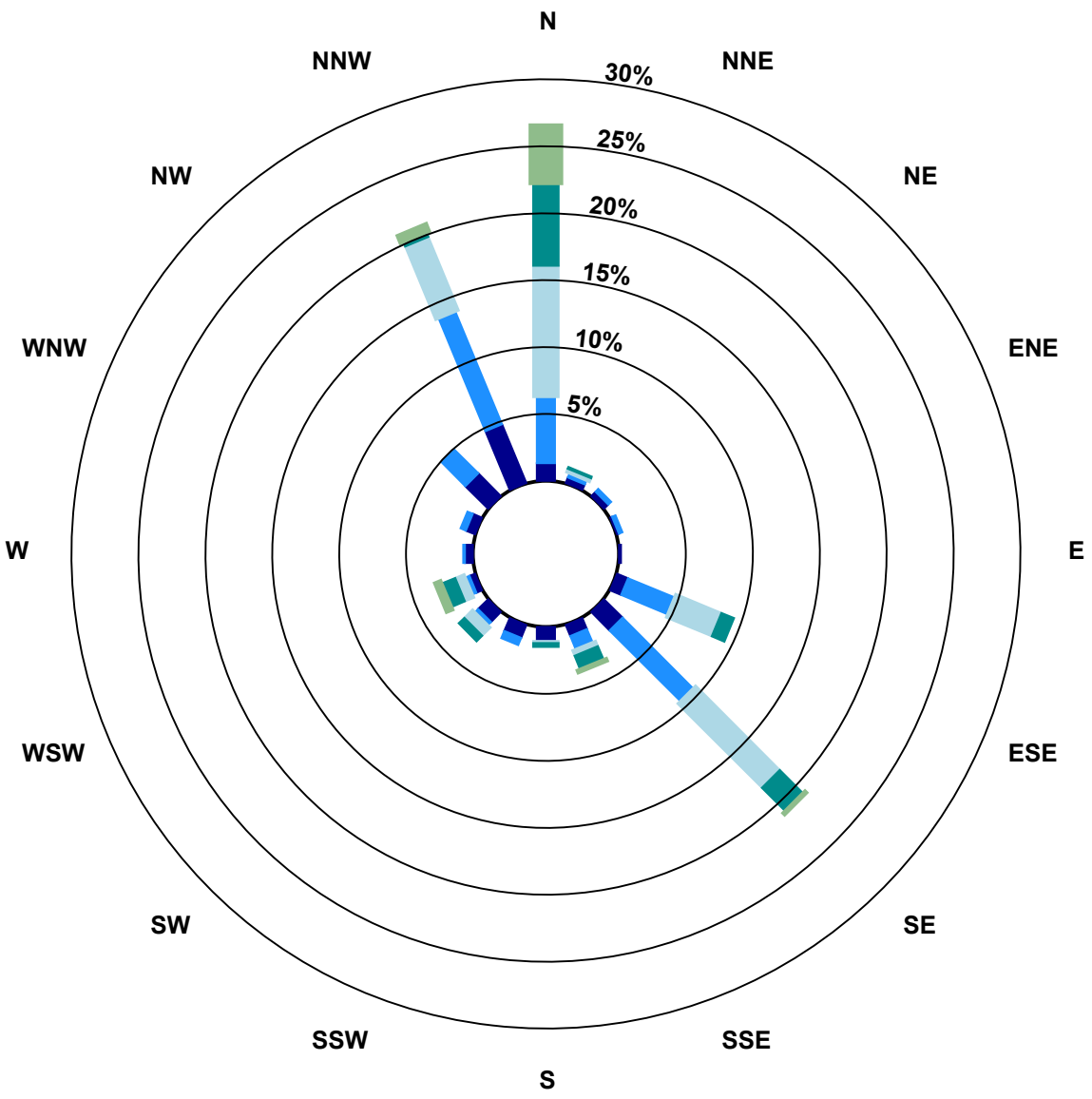
Total Number of Hours: 672

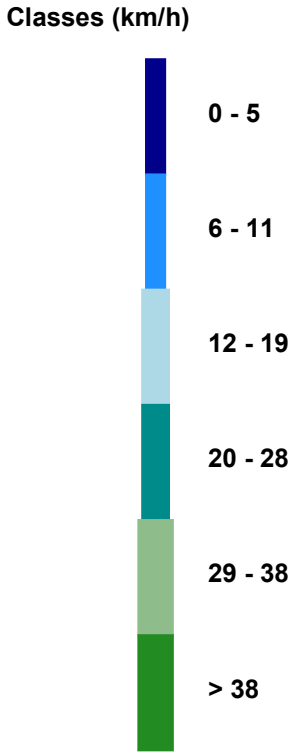
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 45m (WS45) - km/h

Lower Camp Met Tower





Total Number of Valid Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 100m (WS100) - km/h

Lower Camp Met Tower - February 2026

Maximum Speed: 46 km/h on Feb 13 04:00

Maximum Daily Speed Average: 32.2 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 25 04:00

Minimum Daily Speed Average: 0.8 km/h on Feb 14

Maximum Diurnal Speed Average: 5.1 km/h at hour 20

Minimum Diurnal Speed Average: 2.2 km/h at hour 5

Monthly Average Velocity: 3.7 km/h 15.6 deg

Percentiles: P_1 = 1 P_{10} = 5 Q_1 = 8 Median = 14 Q_3 = 21 P_{90} = 30 P_{99} = 42

Hours in Service:	672
Hours of Data:	666
Hours of Missing Data:	6
Percent Operational Time:	99.1

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE13	ENE11	ENE8	E7	ESE11	ESE11	SSE11	ESE11	ESE16	SE26	SE30	SE28	ESE23	SE21	SE28	SE30	SE26	SE25	SE30	SE33	SE34	SE33	SE27	SE23	ESE20.7	SE34
2-Feb	SSE27	SE25	SE28	SE23	SE27	SE27	SE20	SE20	SE19	SE10	SE8	SE7	SSE9	SE8	SE7	SSE8	SE5	SSE3	N2	N6	N8	N14	N11	N11	SE10.2	SE28
3-Feb	N12	NNE17	N15	N13	N8	N13	N8	NNE10	NNE12	N8	NNE6	N4	NNW4	SE4	SE8	SE7	SSE5	SSE11	SE18	SE20	SE23	SE25	SE28	SE28	E5.3	SE28
4-Feb	SSE23	SE29	SE31	SSE30	SSE26	SSE14	SW19	WSW29	WSW25	WSW31	WSW31	WSW27	WSW6	WSW9	W24	WSW24	W26	NNW19	N28	N23	N23	N24	NNE20	N20	WSW7.0	WSW31
5-Feb	N22	N24	N26	N26	N26	N29	N30	N26	N21	N24	NNE18	N15	N12	N9	N8	N8	NE8	NE6	N5	N11	NNE9	N7	N8	N6	N15.8	N30
6-Feb	N10	N8	N3	E2	E1	N2	N6	NNW6	NNW4	E4	ESE9	ESE17	ESE21	SE25	SE20	SE19	SE11	ESE11	ESE5	SE8	SE7	SSE5	SE3	SE3	ESE5.9	SE25
7-Feb	SE2	N6	NNE6	NE4	N11	N16	N18	N21	N22	N19	N19	N18	N18	N18	N14	N15	N17	N14	N12	N14	N14	N13	N10	NNW11	N13.6	N22
8-Feb	NNW13	NNW10	NNW8	NNW9	NNW10	NNW11	NW9	NW9	NW8	NW8	NW11	NNW14	NNW15	NNW17	NNW14	N14	N15	N12	N11	N9	N10	NNE8	N6	NE4	NNW10.1	NNW17
9-Feb	NE3	NNE2	NE2	E3	E5	NE5	NNE10	NE8	NNE8	N9	N10	N13	N14	N16	N17	N18	N20	N18	N18	N18	N17	N14	N12	N13	N10.7	N20
10-Feb	N12	N9	NNW9	NNW10	NNW7	UO	UO	UO	UO	UO	UO	WSW2	SSW6	S7	S10	SE12	SE13	SSE11	SSE13	S6	SSE12	SSE16	SE17	SSE15	SSE4.9	SE17
11-Feb	SE14	SE12	SE15	SE17	SE15	SE13	SSE12	SSE17	SSE17	SSE20	SSE22	SSE21	SSE18	SSE15	S11	SW12	S13	SSW18	S14	S11	SSE13	SSE12	SSE6	S10	SSE13.7	SSE22
12-Feb	S13	SSW10	SW7	WSW22	SW9	WSW18	WSW13	WSW14	SW19	SSW13	SSE14	SE15	SSE15	SSE20	SSW22	SSE25	S31	S28	S41	S44	SSW34	SSW25	SW31	SW37	SSW18.6	S44
13-Feb	SW33	SW37	WSW45	WSW46	WSW45	WSW43	WSW32	WSW22	WSW26	WSW32	WSW33	WSW29	WSW27	SW21	SW20	SW19	SW15	SW13	SW13	WSW17	WSW15	W7	NW4	SSW2	WSW24.4	WSW46
14-Feb	S3	SSW5	SSE9	SSE10	SSE14	SSE15	S14	S6	S10	SSW5	NE2	ESE4	E1	WNW0	SE5	SE1	ESE5	NNW12	N12	NNW12	NNW8	NNW7	NNW11	N15	SSE0.8	SSE15
15-Feb	N8	N19	N18	N19	N19	N16	N17	N16	N18	N17	N16	N16	N15	N11	NNW9	NW6	N10	NNE16	NNE19	NNE18	NNE13	NNE7	N8	N12	N14.0	N19
16-Feb	NNW11	NNW11	N7	N8	N8	NNE5	N6	NNW5	NNW5	NW8	NNW8	NW6	NW10	NNW10	NNW17	NNW17	N22	N19	N20	N22	N21	N24	N23	N27	N12.9	N27
17-Feb	N23	N22	N20	N19	N19	N30	N30	N27	N28	N32	N33	N37	N41	N34	N37	N39	N43	N37	N37	N32	N39	N39	N39	N36	N32.2	N43
18-Feb	N36	N41	N40	N37	N32	N34	N40	N41	N36	N34	N34	N33	N28	N26	N27	N23	NNW19	NNW16	NNW16	NNW12	NNW9	N5	NE1	S3	N25.6	N41
19-Feb	WSW9	SW7	SSE5	S6	SSE10	SSE12	S9	SSE13	SSE13	SSE13	SSE13	SE18	SE16	SE19	SE19	SSE17	SSE18	S22	S24	SSE24	SSE17	SSE18	SSE17	SSE16	SSE14.0	SSE24
20-Feb	SSE11	SSE14	SSE15	SSE16	SSE18	SSE9	SSE8	SSE8	SSE6	S7	SE10	SSE5	ESE4	SE0	NW5	NW8	N15	N17	N22	N23	N23	N20	NNW21	N19	NNE2.1	N23
21-Feb	N18	N16	N17	N14	N15	NNE13	NNE9	NNE8	N12	N12	NW4	NW7	NNW12	N16	NNE19	N22	NNE20	NNE19	N20	NNE25	N24	N21	N23	N21	N15.6	NNE25
22-Feb	N18	N17	N18	N20	N17	NNW18	N18	N15	NNW12	NNW13	NNW10	NNW9	NNW10	NNW9	NW11	NNW9	NNW10	N10	NNW9	ENE4	ESE14	SE20	ESE21	SE25	N8.5	SE25
23-Feb	ESE18	SE10	SE15	SE10	SSE12	SE10	SE7	S5	SSW2	S4	SW5	WSW2	W1	WSW3	SW3	E1	SE4	SSE6	SSE7	ESE3	SE5	SSE5	W4	NW5	SSE4.6	ESE18
24-Feb	WSW3	SSW4	SSE4	S5	SSE7	SSW7	SSW8	SSW7	S8	S9	SSE8	SE9	SE11	SE11	ESE11	ESE11	ESE12	ESE12	SE14	SE16	SE19	SE17	ESE14	ESE13	SE8.8	SE19
25-Feb	SE10	ESE7	ESE4	W0	NNW5	NNW11	NW6	NW1	S4	SSE5	SE9	SE13	SE10	SE8	SE6	ESE5	E5	N6	N15	N17	N21	N24	N23	N23	NNE4.6	N24
26-Feb	N23	N22	N21	N16	NNW16	N19	N19	N21	N20	N22	N28	N31	N37	N35	N36	N31	N38	N40	N36	NNW45	NNW41	NNW39	N36	N31	N29.3	NNW45
27-Feb	N38	N26	N22	N23	N21	N20	N13	N11	N11	N13	NNW16	NNW10	NNW10	NNW9	NNW7	NW6	NNE8	N11	NNE13	NNE13	NNE10	N6	N5	NW4	N13.2	N38
28-Feb	WSW3	S4	SSE3	SSE8	SSE7	SSE12	SSE14	SE13	SSE11	SSE15	SE11	SE21	SE22	SSE28	SSE27	SSE28	SSE27	SSE21	SSE24	SSE19	SSE19	SSE23	SSE29	SSE23	SSE16.8	SSE29
	NNE4.6	NNE5.0	NNE3.8	N2.7	N2.2	N4.0	NNW4.7	NNW4.2	N3.4	NNW3.0	N3.1	NNE2.7	NNE3.7	NE3.1	NNE2.4	NNE2.4	NNE3.5	NNE4.4	NNE4.7	NNE5.1	NNE5.0	NNE4.6	NNE4.7	NNE4.2	Diurnal Average	
	N38	N41	WSW45	WSW46	WSW45	WSW43	N40	N41	N36	N34	N34	N37	N41	N35	N37	N39	N43	N40	S41	NNW45	NNW41	NNW39	N39	SW37	Diurnal Maximum	

UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 100m (WS100) - km/h

Lower Camp Met Tower - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 10 km/h on Feb 4 12:00

Minimum Value: 1 km/h on Feb 24 02:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 2 Q_3 = 3 P_{90} = 5 P_{99} = 8

Hours in Service:	672
Hours of Data:	666
Hours of Missing Data:	6
Hours of Calibration:	0
Percent Operational Time:	99.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	3	4	2	2	3	2	2	3	5	5	4	3	4	4	4	3	4	3	4	3	3	3	4	4	5
2-Feb	4	3	3	3	3	3	2	2	2	3	3	4	2	2	2	1	1	1	2	1	1	2	2	2	4
3-Feb	3	4	4	2	3	2	2	3	3	2	1	2	1	3	2	2	3	2	4	2	3	3	4	4	4
4-Feb	6	4	4	5	6	3	8	3	3	4	5	10	4	4	2	2	4	6	5	3	3	4	3	3	10
5-Feb	3	4	4	4	5	3	4	4	4	5	4	3	3	2	2	2	2	3	2	2	3	2	1	1	5
6-Feb	1	2	1	2	1	1	2	3	2	3	5	7	4	4	5	3	4	4	2	2	3	2	2	1	7
7-Feb	2	2	2	2	5	4	3	3	3	3	3	3	2	2	3	2	2	2	1	2	2	2	2	2	5
8-Feb	2	2	2	1	2	2	2	2	1	1	2	3	3	3	2	3	3	2	1	1	1	2	1	2	3
9-Feb	1	1	1	1	2	1	2	3	3	3	2	2	1	2	2	2	2	2	2	2	2	2	1	2	3
10-Feb	1	2	1	1	2	UO	UO	UO	UO	UO	UO	1	1	2	3	3	2	2	2	3	4	2	2	2	4
11-Feb	1	2	2	2	4	2	1	2	2	2	1	2	2	2	2	2	1	3	3	3	2	2	2	3	4
12-Feb	2	2	3	5	5	3	4	4	4	3	1	1	3	2	4	4	4	4	4	3	5	3	5	3	5
13-Feb	4	4	3	3	2	3	4	5	4	5	3	2	2	3	2	2	1	2	2	3	8	3	2	1	8
14-Feb	1	2	1	1	2	2	3	2	3	2	1	1	1	1	1	1	1	7	4	1	2	1	9	9	9
15-Feb	7	3	4	3	4	3	3	2	3	2	2	2	2	2	3	2	3	2	4	6	3	3	2	2	7
16-Feb	1	1	2	2	2	1	1	1	2	2	2	1	3	3	3	3	5	3	4	2	3	3	3	3	5
17-Feb	3	4	3	4	3	5	5	5	4	5	6	7	6	5	6	5	6	6	6	6	6	5	5	8	8
18-Feb	7	6	7	6	5	5	7	6	7	6	4	5	5	4	4	4	3	4	3	2	1	2	1	1	7
19-Feb	3	3	1	1	3	4	2	2	3	2	1	2	2	2	2	2	1	2	1	2	2	2	2	2	4
20-Feb	1	2	1	2	4	3	2	2	2	2	4	2	1	1	2	2	4	2	3	2	3	1	2	2	4
21-Feb	2	2	2	2	2	2	2	2	2	3	2	3	3	3	5	4	4	3	4	5	3	3	3	2	5
22-Feb	2	2	2	2	3	3	2	2	2	2	2	2	2	2	2	2	1	1	1	3	6	3	4	3	6
23-Feb	4	2	3	3	2	2	1	1	1	2	2	1	1	2	2	1	2	1	2	1	1	1	2	2	4
24-Feb	1	1	2	2	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1	1	2	2	2	2	2
25-Feb	2	3	2	1	3	1	2	1	1	1	2	2	2	1	1	1	1	4	2	2	4	3	3	3	4
26-Feb	4	3	2	4	3	3	2	2	2	2	3	4	5	6	7	6	7	6	8	8	10	7	6	6	10
27-Feb	7	7	4	5	4	3	2	2	2	3	2	3	3	3	2	2	2	2	1	1	3	1	1	1	7
28-Feb	1	1	1	2	2	1	2	2	2	2	2	3	3	3	3	2	2	2	1	2	3	2	3	3	3
	7	7	7	6	6	5	8	6	7	6	6	10	6	6	7	6	7	7	8	8	10	7	9	9	
	Diurnal Maximum																								

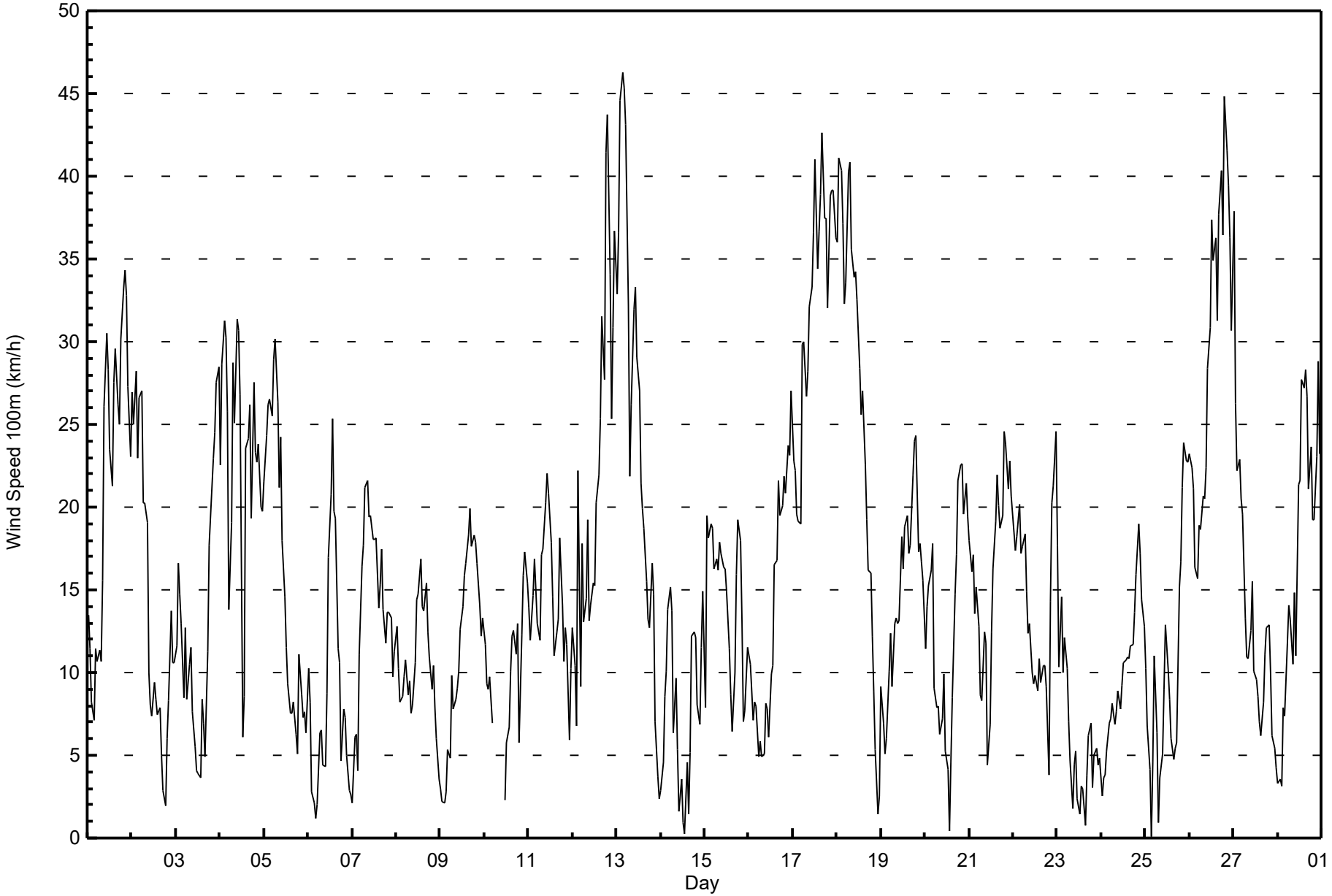
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 100m (WS100) - km/h

Lower Camp Met Tower - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	85	12.76	12.76
6 - 11	182	27.33	40.09
12 - 19	200	30.03	70.12
20 - 28	125	18.77	88.89
29 - 38	54	8.11	97.00
> 38	20	3.00	100.00

Total Number of Valid Hours: 666

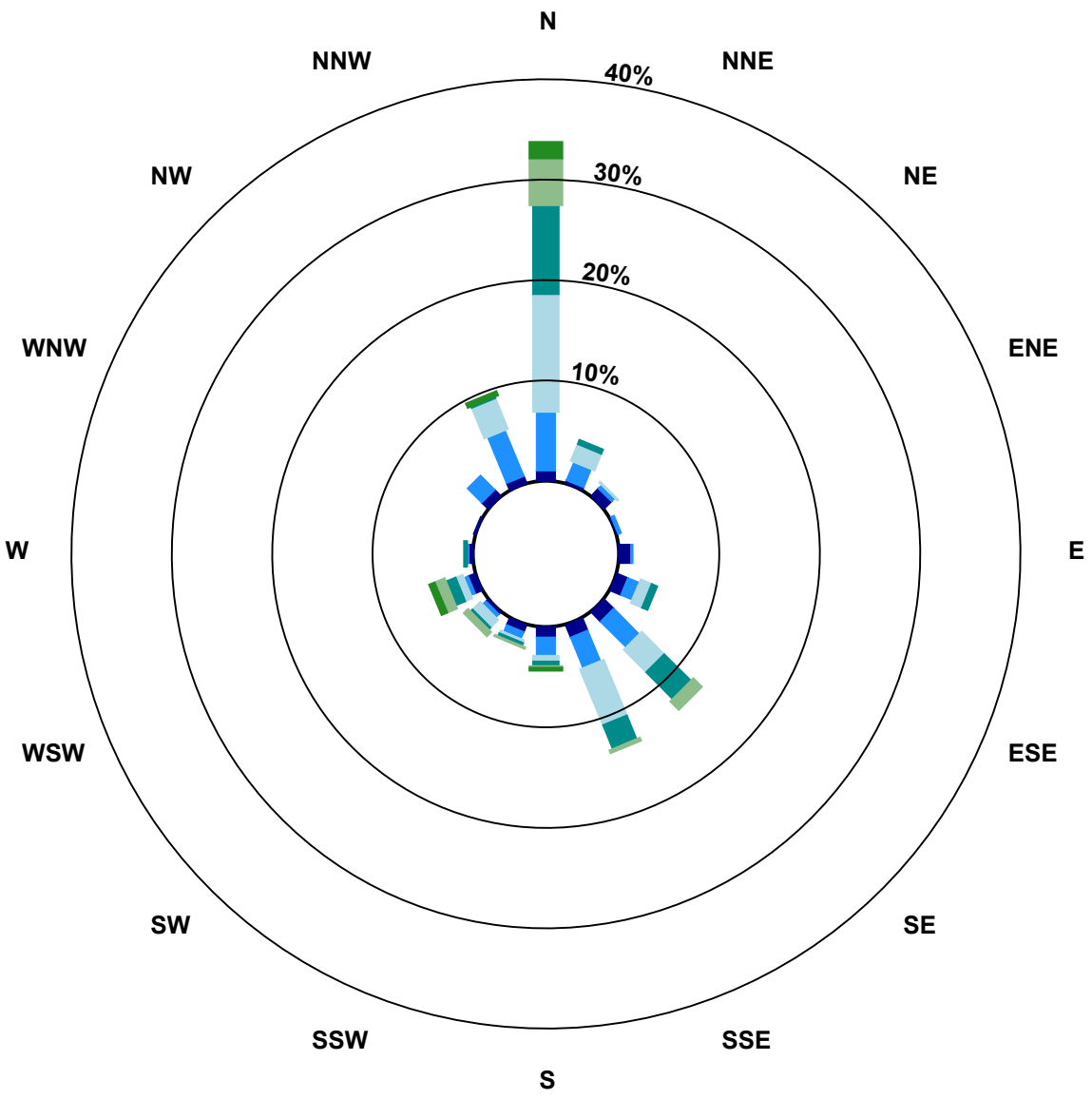
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 100m (WS100) - km/h

Lower Camp Met Tower



Classes (km/h)

- 0 - 5
- 6 - 11
- 12 - 19
- 20 - 28
- 29 - 38
- > 38

Total Number of Valid Hours: 666

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 163m (WS163) - km/h

Lower Camp Met Tower - February 2026

Maximum Speed: 55 km/h on Feb 13 04:00

Maximum Daily Speed Average: 34.4 km/h on Feb 17

Minimum Speed Value: 1 km/h on Feb 25 07:00

Minimum Daily Speed Average: 2.4 km/h on Feb 20

Maximum Diurnal Speed Average: 4.9 km/h at hour 20

Minimum Diurnal Speed Average: 1.2 km/h at hour 10

Monthly Average Velocity: 2.8 km/h 21.6 deg

Percentiles: $P_1 = 2$ $P_{10} = 6$ $Q_1 = 10$ Median = 16 $Q_3 = 23$ $P_{90} = 33$ $P_{99} = 47$

Hours in Service:	672
Hours of Data:	657
Hours of Missing Data:	15
Percent Operational Time:	97.8

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE14	ENE13	ENE9	E9	ESE13	SE12	SSE12	SE13	SE20	SE29	SE31	SE30	SE25	SE25	SE30	SE31	SE31	SE30	SE34	SE33	SE37	SE33	SE30	SE27	SE22.5	SE37
2-Feb	SSE31	SSE25	SE27	SE27	SE28	SE27	SE21	SE19	SE18	SSE15	SSE12	SSE11	SSE12	SSE9	SSE8	SSE9	SSW5	SW4	NW5	N8	N13	NNE17	NNE12	NNE13	SE10.4	SSE31
3-Feb	N13	NNE17	NNE16	NNE13	N9	NNE15	NNE9	NNE11	NNE12	NNE7	NE5	NNE4	NNE3	ESE7	SE10	SSE10	SSE11	SSE14	SSE21	SSE20	SSE24	SSE27	SSE29	SSE31	ESE6.3	SSE31
4-Feb	SSE28	UO	UO	SSE37	S29	SSW12	WSW30	WSW41	WSW37	WSW39	WSW39	WSW35	W15	W17	W27	W25	W30	NNW23	N27	N24	N22	NNE23	NNE20	NNE19	W13.1	WSW41
5-Feb	NNE22	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	NNE7	NNE7	NE8	ENE7	NNE5	NNE11	NE10	NNE8	NNE8	NE7	----	NNE22
6-Feb	NE7	ENE6	SE6	ESE8	SE7	ESE5	ESE6	ESE6	ESE9	SE14	SE20	SE24	SE25	SE29	SE23	SE22	SE15	SE15	ESE9	SE12	SE12	SSE9	SE7	SE6	SE12.1	SE29
7-Feb	SSE3	NNE3	ENE6	NE6	NNE14	NNE17	N17	NNE20	N21	N18	N18	N16	NNE16	NNE16	NNE12	N14	N17	N14	NNE12	N14	N13	N13	N10	N11	NNE12.9	N21
8-Feb	N13	N11	N8	N8	N10	N11	N8	NNW9	NNW10	NNW10	NNW11	NNW16	NNW16	N17	N14	N13	N15	N13	NNE12	NNE11	N11	NNE9	NNE6	NE5	N10.6	N17
9-Feb	ENE4	E4	ESE5	ESE7	ESE9	E9	NE9	ENE9	NNE12	NNE10	NNE9	N12	N13	N15	N16	N17	N19	N18	N18	N17	N17	NNE14	N12	N14	NNE10.3	N19
10-Feb	N12	N10	N9	N9	N6	N4	N3	N3	NW3	WNW4	SW6	S6	SSE6	S13	S17	SSE15	SSE14	SSE19	SSE19	SSE12	SSE18	SSE26	SSE24	S19	SSE6.2	SSE26
11-Feb	S17	S13	SSW13	SSW17	SSW18	SSW8	SSW8	SSW15	SSW18	S19	S20	S18	S15	SSW13	SW13	SW18	SSW15	SSW19	SSW18	SSW17	SSW14	SSW12	WSW7	SW9	SSW14.3	S20
12-Feb	SW16	SW19	WSW18	W30	WSW20	W23	WSW25	WSW26	WSW25	SW20	S13	S11	S17	S22	SSW26	S31	SSW36	S29	SSW48	SSW51	SW37	SW28	SW37	WSW43	SW24.0	SSW51
13-Feb	WSW40	WSW44	WSW52	WSW55	WSW53	WSW50	W38	W29	WSW33	WSW39	WSW38	WSW32	WSW28	WSW23	WSW21	WSW21	WSW18	WSW15	WSW13	WSW18	WSW20	W9	W7	W2	WSW28.7	WSW55
14-Feb	WSW8	SW11	SW10	SSW10	SSW12	SSW12	SW14	SW11	SW15	WSW11	WNW3	SE4	SE2	E3	ESE4	ESE3	ESE7	N7	N17	NNE11	N8	W1	NNW8	NNE18	WSW2.5	NNE18
15-Feb	N9	N20	N19	N19	N21	NNE20	N20	N19	NNE18	NNE16	NNE15	NNE15	N13	N11	N8	N7	N11	NNE18	NNE23	NE28	NE24	NE17	NNE14	NNE14	NNE16.3	NE28
16-Feb	N12	N11	NNE10	N11	NNE13	NNE10	NNE12	NNE10	NE8	NE3	NNE6	N7	NNW10	NNW11	N17	N17	N21	NNE23	N23	NNE25	N24	N24	N24	N30	N14.7	N30
17-Feb	N24	N25	NNE23	NNE24	NNE22	N33	N34	NNE29	N29	N35	N36	NNE40	N43	N34	N37	N42	N45	N41	N40	N34	N41	N41	N41	N38	N34.4	N45
18-Feb	N39	N44	N43	N39	N35	N37	N42	N43	N38	N34	N34	N33	N30	N26	N27	N23	N21	N18	NNW18	NNW13	NNW11	N8	NNE4	SSE2	N27.2	N44
19-Feb	SW8	SW11	SSW9	SSW12	S14	S15	S14	SSE13	SSE16	S13	S11	SSE16	SSE16	SSE19	SSE19	SSE19	S18	S22	S24	S27	S26	S20	S21	SSW17	S15.9	S27
20-Feb	SSW13	SSW10	SSW11	S15	S12	S10	SSE16	SSE20	SSE17	S17	SSE10	SE7	SE4	ESE3	NNW5	NNW10	N16	N20	N27	NNE27	N27	N23	N24	N24	NE2.4	NNE27
21-Feb	N25	N20	N20	N17	NNE23	NNE28	NNE21	NE21	NNE19	NNE17	NNE8	NW7	NNW13	N16	NNE20	NNE23	NNE22	NNE22	NNE21	NNE29	NNE26	NNE22	N25	N22	NNE20.0	NNE29
22-Feb	NNE21	N19	N20	N22	N20	N19	N19	N15	N14	N13	N10	N10	N11	N10	N10	N11	NNE11	NE7	ESE8	SE16	SE25	SE24	SE26	SE28	NE8.9	SE28
23-Feb	SE21	SE13	SE18	SE12	SSE13	SE11	SSE6	S5	SE1	S5	SW6	W3	NW2	NW4	NNW3	N2	SSE2	S6	S10	S10	S12	SW9	W7	NNW10	SSE5.0	SE21
24-Feb	NNW7	W3	WSW10	WSW13	WSW9	WSW13	WSW17	WSW18	SW14	SSW10	SSW8	S8	S10	SE10	SE11	SE11	SE12	SE12	SE11	SSE18	SE19	SSE20	SE20	SE20	S8.2	SE20
25-Feb	SE17	ESE16	ESE14	SE7	S1	NNE3	NE1	SSE3	S6	SSE8	SSE9	SSE13	SE10	SE9	SE7	ESE6	E4	NNE8	NNE16	NNE19	NNE22	N24	N23	N23	ENE5.2	N24
26-Feb	N23	N23	N22	NNE18	N18	N20	N19	N22	N22	N24	N30	N34	N39	N36	N38	N32	N40	N44	N40	N49	N46	N44	N39	N33	N31.2	N49
27-Feb	N42	N31	N24	N26	N22	N21	NNE15	NNE15	NNE15	NNE14	N16	N10	NNW9	NNW8	NNW7	NNW7	NNE8	N10	NNE13	NNE12	NNE11	NE10	NE6	ESE2	N14.2	N42
28-Feb	WSW2	SW2	S5	S9	SSE17	SSE23	SSE26	SSE24	SSE23	SSE23	SSE13	SE18	SSE24	SSE31	S31	SSE29	SSE26	S22	S23	S24	S29	S29	S26	S26	SSE20.7	SSE31
	NNE4.6	N4.8	N3.5	NNW1.5	NNW1.2	N3.4	NNW3.3	NNW2.8	NNW1.8	WNW1.2	N1.5	NNE1.6	NE2.8	ENE2.2	NNE1.8	NE2.0	NNE3.1	NNE4.4	NE4.6	NE4.9	NE4.5	NE4.1	NE4.1	NE4.2	Diurnal Average	
	N42	WSW44	WSW52	WSW55	WSW53	WSW50	N42	N43	N38	WSW39	WSW39	NNE40	N43	N36	N38	N42	N45	N44	SSW48	SSW51	N46	N44	N41	WSW43	Diurnal Maximum	

UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 163m (WS163) - km/h

Lower Camp Met Tower - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 11 km/h on Feb 4 07:00

Minimum Value: 0 km/h on Feb 10 06:00

Percentiles: $P_1 = 1$ $P_{10} = 1$ $Q_1 = 2$ Median = 2 $Q_3 = 3$ $P_{90} = 5$ $P_{99} = 8$

Hours in Service:	672
Hours of Data:	657
Hours of Missing Data:	15
Hours of Calibration:	0
Percent Operational Time:	97.8

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	3	2	3	2	2	3	3	4	4	3	2	3	4	3	3	3	3	3	3	3	2	3	4	4
2-Feb	4	3	4	3	3	3	2	3	2	3	3	3	2	2	2	1	1	1	2	1	2	2	2	2	4
3-Feb	2	3	4	3	2	3	2	3	3	2	1	1	1	4	2	2	2	3	4	3	3	4	4	5	5
4-Feb	6	UO	UO	5	7	3	11	2	2	3	4	11	5	5	2	3	4	5	5	3	3	3	3	3	11
5-Feb	3	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	2	2	2	3	1	2	3	1	1	1	3
6-Feb	1	2	3	3	3	2	2	2	3	4	4	4	3	3	4	3	3	4	2	3	2	3	2	1	4
7-Feb	2	2	2	2	5	5	3	4	3	4	3	3	2	2	3	3	2	3	2	2	2	2	2	1	5
8-Feb	1	2	2	1	1	1	1	2	1	1	2	2	2	3	2	2	3	2	1	1	1	2	2	1	3
9-Feb	1	2	1	1	1	4	4	2	3	3	2	2	2	2	2	2	2	3	2	2	2	2	2	2	4
10-Feb	1	1	1	1	2	0	1	1	1	1	1	2	3	3	4	4	3	3	2	4	3	3	3	2	4
11-Feb	2	2	2	3	4	1	2	2	2	1	2	2	2	1	3	2	2	2	2	2	2	2	4	3	4
12-Feb	2	2	4	2	6	2	2	2	3	4	2	1	4	2	4	5	4	5	5	3	6	4	6	3	6
13-Feb	4	4	4	3	2	3	4	3	3	4	4	2	2	3	2	2	1	2	2	2	6	2	3	1	6
14-Feb	4	3	2	1	1	2	2	2	2	3	2	2	2	2	1	1	1	5	1	1	1	1	9	9	9
15-Feb	5	3	5	3	4	3	3	2	3	3	2	2	2	2	2	2	3	2	2	2	3	3	4	2	5
16-Feb	2	1	2	2	1	1	1	1	2	2	2	2	2	2	3	3	4	5	4	3	3	4	3	3	5
17-Feb	4	5	4	5	4	6	8	5	4	5	7	7	7	5	6	6	7	6	6	6	7	5	6	9	9
18-Feb	9	7	8	7	6	6	7	6	7	6	5	5	6	4	3	3	3	4	3	2	1	1	1	1	9
19-Feb	3	2	1	2	1	2	2	3	1	2	1	2	2	2	2	2	1	2	1	1	2	3	2	2	3
20-Feb	1	2	1	2	2	1	3	1	2	1	2	2	2	2	2	1	2	2	4	3	3	2	2	2	4
21-Feb	2	3	3	2	3	3	3	4	2	4	3	3	3	3	5	4	4	3	5	5	3	5	4	3	5
22-Feb	3	3	2	2	2	2	3	2	1	2	1	2	2	2	1	2	1	1	3	5	4	3	3	2	5
23-Feb	3	2	3	3	3	2	1	1	1	1	2	1	2	2	1	2	2	1	2	2	2	1	1	1	3
24-Feb	2	1	3	1	2	4	2	1	2	1	2	1	1	1	2	1	2	2	2	3	2	2	2	1	4
25-Feb	4	2	2	1	2	1	1	1	2	2	2	2	2	1	1	2	1	3	2	2	3	3	3	3	4
26-Feb	4	4	3	4	3	3	3	2	3	3	4	6	5	7	7	7	7	6	8	7	10	5	6	6	10
27-Feb	6	8	4	6	5	4	3	3	3	3	3	3	3	3	3	2	2	2	1	1	1	1	1	1	8
28-Feb	1	1	1	2	4	2	2	3	3	4	2	2	4	2	1	2	2	2	1	2	1	1	2	3	4
	9	8	8	7	7	6	11	6	7	6	7	11	7	7	7	7	7	6	8	7	10	5	9	9	
	Diurnal Maximum																								

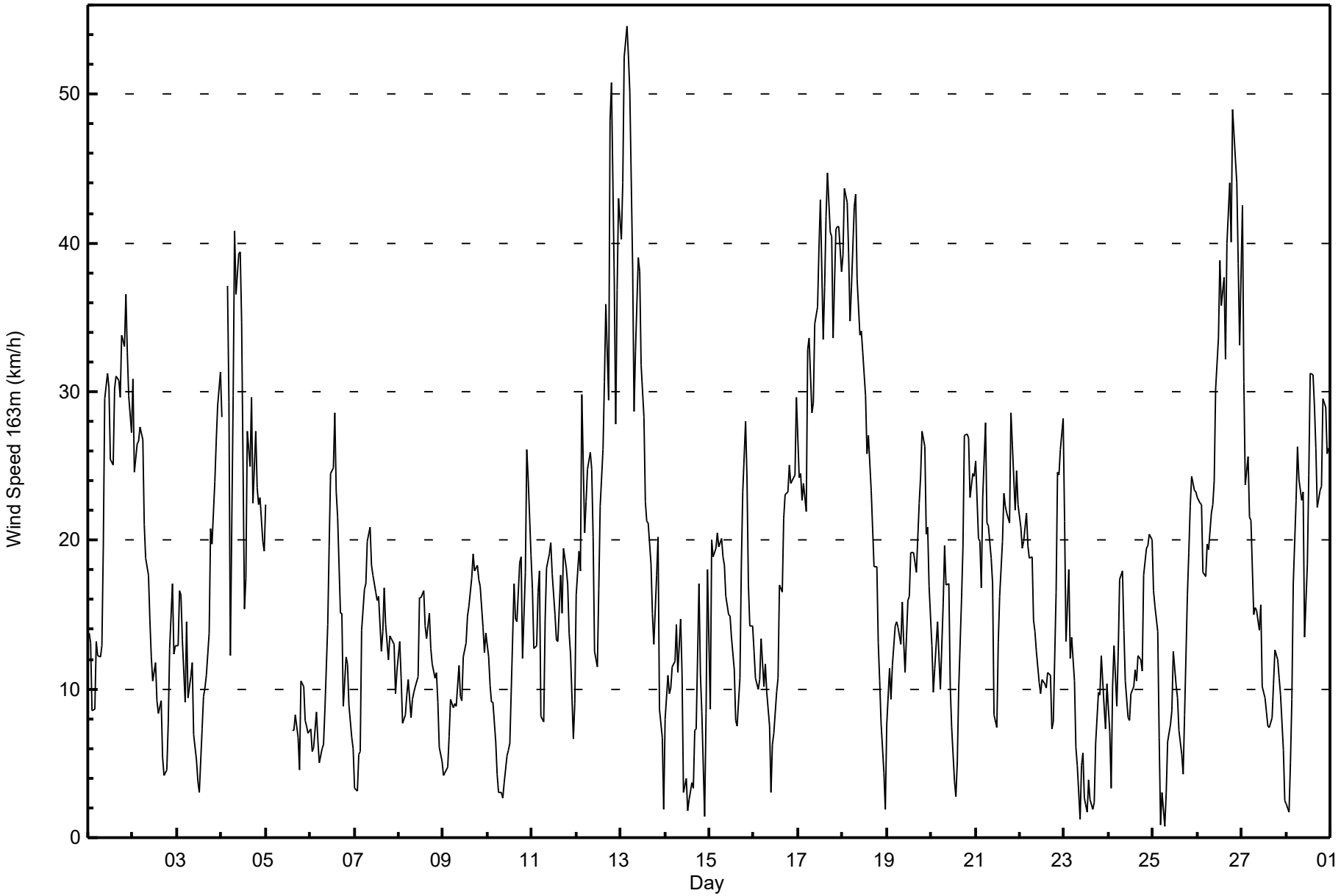
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 163m (WS163) - km/h

Lower Camp Met Tower - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	52	7.91	7.91
6 - 11	164	24.96	32.88
12 - 19	200	30.44	63.32
20 - 28	140	21.31	84.63
29 - 38	64	9.74	94.37
> 38	37	5.63	100.00

Total Number of Valid Hours: 657

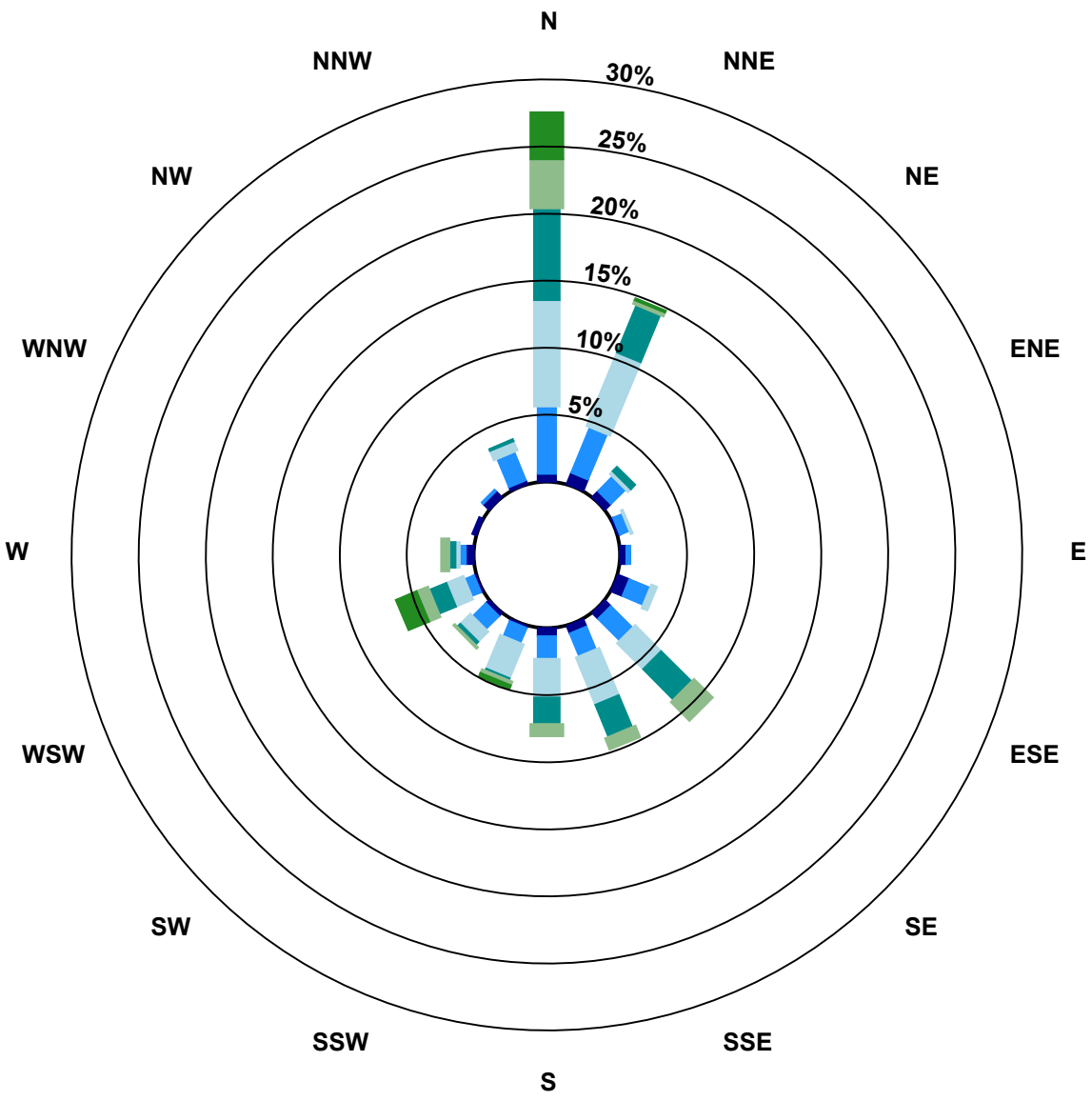
Total Number of Hours: 672

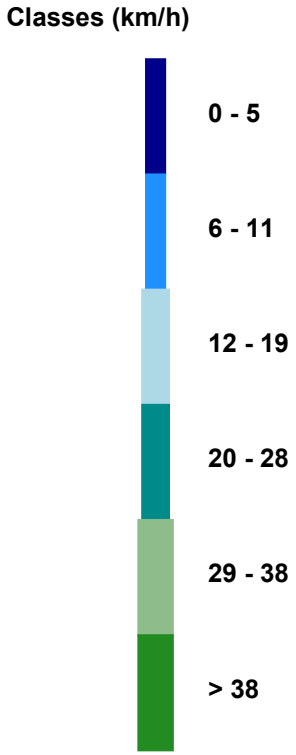
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 163m (WS163) - km/h

Lower Camp Met Tower





Total Number of Valid Hours: 657

Direction of Maximum Speed: 241 deg on Feb 13 04:00
Direction of Maximum Daily Speed Average: 355.5 deg on Feb 17

Direction of Minimum Speed: 82 deg on Feb 2 11:00

Direction of Minimum Daily Speed Average: 0.4 deg on Feb 10

Monthly Average Direction: 20.2 deg

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	58	64	76	110	113	108	139	104	119	124	124	133	122	124	123	125	122	126	126	122	130	123	124	142	122.0
2-Feb	152	148	141	136	146	133	125	130	126	159	82	104	138	135	120	138	99	137	345	322	319	346	342	350	134.4
3-Feb	346	11	3	352	333	5	11	12	20	1	349	323	314	173	148	134	332	134	134	135	137	140	133	136	83.0
4-Feb	157	133	143	140	139	135	208	262	232	249	256	241	165	175	250	245	254	317	350	355	353	3	11	4	214.4
5-Feb	357	358	352	358	353	346	346	345	359	356	11	0	359	351	346	2	35	41	357	5	358	355	341	333	355.7
6-Feb	326	323	335	337	338	336	338	341	338	345	349	106	114	121	136	141	141	140	155	140	167	343	341	325	60.3
7-Feb	330	315	335	329	351	356	340	4	351	356	355	353	351	7	359	349	346	356	345	344	346	336	347	329	350.2
8-Feb	328	333	325	316	318	320	315	324	334	341	315	324	337	345	340	356	356	350	354	352	348	356	2	350	337.7
9-Feb	337	340	328	323	337	333	339	345	342	348	346	343	348	351	348	343	353	348	344	349	344	347	336	343	345.1
10-Feb	336	329	322	330	332	329	340	346	339	349	1	37	269	8	5	140	145	172	160	11	347	144	132	159	20.2
11-Feb	207	319	146	141	136	143	139	135	135	135	128	128	133	129	130	130	144	125	130	137	139	132	144	127	134.5
12-Feb	134	125	125	152	140	191	145	162	143	125	126	127	136	138	181	144	152	141	152	162	167	170	213	229	154.8
13-Feb	225	232	242	241	245	250	255	233	238	244	249	238	242	234	231	225	219	193	327	171	157	279	230	203	238.7
14-Feb	151	209	147	137	136	137	129	143	136	136	135	116	345	291	207	249	276	334	322	317	268	318	337	343	137.2
15-Feb	335	354	353	352	353	8	338	334	5	360	1	2	351	343	337	294	334	2	357	349	342	295	323	332	349.4
16-Feb	317	311	313	333	299	339	325	337	320	311	356	340	310	330	336	338	352	354	339	342	340	346	348	356	339.7
17-Feb	352	356	1	358	351	353	352	358	356	359	2	4	3	352	352	353	355	353	353	355	355	351	352	358	355.5
18-Feb	359	355	355	354	353	355	356	355	359	352	353	356	359	351	348	349	337	341	330	308	290	270	181	90	352.4
19-Feb	96	132	138	133	135	134	132	132	126	129	129	132	131	132	133	140	152	161	150	134	123	138	137	135	136.3
20-Feb	136	136	131	133	132	135	135	137	141	142	143	130	156	173	237	277	339	337	342	344	348	339	340	337	119.9
21-Feb	336	330	338	331	334	335	339	335	321	317	293	307	334	351	11	9	15	15	9	13	360	355	352	352	353.0
22-Feb	354	343	344	343	337	334	343	335	332	331	321	318	316	315	311	323	325	324	320	332	351	106	115	120	340.7
23-Feb	124	136	142	152	149	140	135	172	359	177	209	223	205	217	228	191	141	147	94	334	307	326	327	339	163.8
24-Feb	131	120	125	145	126	131	130	134	133	133	129	133	129	124	135	131	127	124	130	120	117	119	131	138	129.5
25-Feb	126	312	326	343	337	301	328	332	185	177	135	136	132	145	147	151	136	354	337	347	354	353	353	356	16.3
26-Feb	360	351	341	338	324	349	347	344	353	348	350	350	355	357	357	357	350	348	344	344	344	338	346	346	348.1
27-Feb	354	351	348	357	348	349	344	330	338	344	342	346	339	339	316	280	8	339	357	316	325	320	318	327	343.7
28-Feb	220	134	132	144	139	138	142	146	148	147	137	141	134	133	141	153	153	141	133	132	122	122	128	129	139.5
	9.0	10.8	20.6	29.9	35.9	19.4	6.9	19.9	36.7	19.9	18.5	30.5	24.9	38.5	17.4	48.8	33.3	19.1	20.9	14.4	11.7	20.8	12.2	8.6	
	Diurnal Average																								

All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 108 deg on Feb 2 11:00

Minimum Value: 5 deg on Feb 28 19:00

Percentiles: P_1 = 6 P_{10} = 9 Q_1 = 15 Median = 18 Q_3 = 23 P_{90} = 44 P_{99} = 85

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

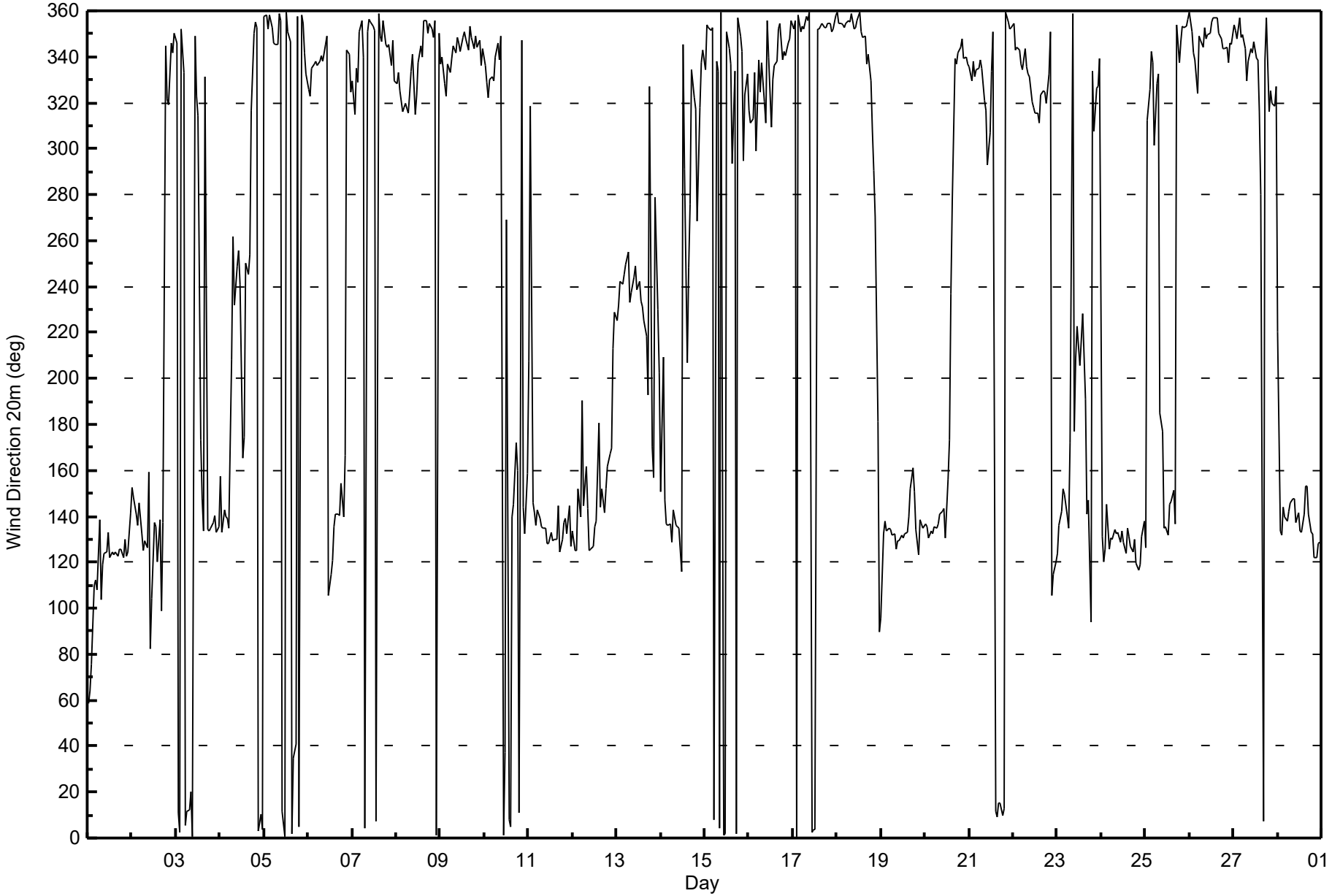
Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	32	32	26	28	16	22	19	25	23	19	16	16	19	21	17	16	16	18	15	15	16	16	21	22	32
2-Feb	9	9	14	19	11	19	26	23	44	95	108	47	17	25	22	12	28	36	28	26	16	17	16	17	108
3-Feb	15	19	21	17	27	22	20	16	22	22	21	29	29	59	18	83	43	26	11	12	12	12	15	19	83
4-Feb	23	23	11	9	12	17	41	41	50	14	23	47	33	33	13	13	21	49	16	16	15	16	16	18	50
5-Feb	18	18	14	16	17	14	14	15	19	20	19	21	25	18	26	27	22	33	24	19	24	21	17	20	33
6-Feb	17	22	23	18	18	19	29	35	18	17	16	66	17	21	22	20	23	25	60	28	74	29	15	53	74
7-Feb	36	44	33	49	25	18	16	21	16	18	18	17	16	18	19	14	15	21	17	15	17	17	19	17	49
8-Feb	17	17	25	16	14	15	13	15	21	21	20	18	20	17	17	18	17	15	16	15	13	17	22	31	31
9-Feb	22	59	26	43	19	31	18	70	37	22	13	17	13	15	14	13	15	14	15	15	17	15	18	17	70
10-Feb	18	19	15	18	20	18	19	25	44	22	55	68	98	70	69	46	11	20	23	84	49	29	62	40	98
11-Feb	65	68	25	10	8	8	10	9	9	8	9	11	16	10	8	10	20	22	6	24	8	8	41	10	68
12-Feb	7	7	8	43	53	46	41	25	20	9	10	21	10	11	20	7	8	10	8	7	8	7	21	9	53
13-Feb	8	12	11	9	11	13	15	19	18	17	14	12	11	11	11	7	7	75	41	73	94	79	69	37	94
14-Feb	25	15	22	6	6	6	6	9	8	9	31	76	71	82	17	88	36	14	41	39	82	67	22	40	88
15-Feb	77	18	20	15	16	21	17	18	19	19	20	21	15	19	21	28	46	21	29	38	24	75	39	20	77
16-Feb	70	25	26	19	26	35	13	18	18	54	23	23	27	20	17	17	20	16	19	16	16	13	14	15	70
17-Feb	16	18	18	18	17	15	16	18	16	15	18	18	16	16	16	16	17	15	16	17	16	14	16	18	18
18-Feb	18	16	17	16	17	18	16	16	17	17	17	17	19	18	15	18	16	19	17	14	29	81	45	78	81
19-Feb	49	19	9	7	7	7	7	9	14	13	11	12	16	13	13	12	6	6	9	12	22	11	18	9	49
20-Feb	5	7	8	8	8	8	12	9	8	9	9	12	14	33	28	27	25	16	13	12	15	15	15	13	33
21-Feb	15	14	14	19	14	54	42	37	18	24	32	28	21	17	22	20	18	15	17	16	16	17	17	15	54
22-Feb	19	16	14	14	17	17	15	17	18	17	18	19	20	19	22	16	17	17	20	28	29	31	19	18	31
23-Feb	24	20	18	17	19	20	12	60	95	24	21	19	29	22	14	25	17	16	73	32	88	73	12	35	95
24-Feb	84	21	23	25	12	5	9	8	5	9	9	9	17	18	14	19	24	21	25	18	11	14	33	31	84
25-Feb	74	76	17	78	16	37	43	77	76	59	12	13	18	11	14	17	16	77	14	14	16	15	15	17	78
26-Feb	17	18	15	19	18	19	15	15	18	15	16	17	15	17	19	18	16	15	15	14	16	16	15	17	19
27-Feb	17	19	19	18	15	15	16	19	25	18	16	22	23	28	44	42	21	19	16	66	23	15	25	44	66
28-Feb	69	28	9	8	9	14	8	6	7	11	10	8	14	7	9	6	6	7	5	18	14	7	5	17	69
	84	76	33	78	53	54	43	77	95	95	108	76	98	82	69	88	46	77	73	84	94	81	69	78	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 20m (WD20) - deg

Lower Camp Met Tower - February 2026



Direction of Maximum Speed: 346 deg on Feb 26 20:00
Direction of Maximum Daily Speed Average: 357.4 deg on Feb 17

Direction of Minimum Speed: 289 deg on Feb 23 22:00

Direction of Minimum Daily Speed Average: 0.7 deg on Feb 10

Monthly Average Direction: 19.5 deg

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	56	62	74	103	110	109	136	104	119	120	123	128	118	121	123	123	122	124	125	122	127	123	120	134	119.7
2-Feb	148	141	134	130	138	128	124	125	125	128	112	109	138	124	121	141	118	137	355	344	331	351	346	354	125.3
3-Feb	349	11	4	353	340	3	7	12	20	2	359	329	319	149	142	126	248	137	134	133	133	137	131	132	78.5
4-Feb	150	130	140	140	139	130	217	249	245	246	255	243	184	203	255	239	246	327	352	357	355	3	10	2	240.3
5-Feb	359	359	354	0	356	348	349	349	360	358	9	1	1	354	357	3	36	46	3	6	5	358	348	341	358.1
6-Feb	330	327	336	341	340	336	340	338	337	343	354	112	116	118	122	127	129	129	141	139	145	351	346	334	64.5
7-Feb	326	340	337	333	352	356	344	3	354	358	356	356	355	7	1	352	350	355	351	350	352	341	347	333	352.4
8-Feb	333	337	332	319	321	324	318	323	335	339	316	326	337	347	340	356	357	353	359	355	350	360	3	8	340.9
9-Feb	355	345	347	17	355	338	348	5	352	354	352	344	351	352	351	346	356	352	347	352	350	350	339	347	350.3
10-Feb	339	333	326	331	335	329	336	339	328	336	322	14	262	335	142	135	142	151	150	229	314	133	123	139	95.0
11-Feb	151	158	128	130	124	127	129	126	118	115	122	132	132	126	129	160	152	162	124	128	127	120	130	127	129.6
12-Feb	126	131	128	234	172	237	211	206	192	141	118	125	135	138	188	147	160	151	156	167	176	181	217	229	165.7
13-Feb	226	230	239	237	241	246	253	236	234	241	248	238	239	233	231	226	221	209	187	213	235	275	117	193	236.7
14-Feb	132	136	129	126	127	128	122	128	124	125	92	69	331	269	179	244	204	332	331	328	290	330	333	345	111.2
15-Feb	342	357	354	354	356	7	342	340	5	1	2	2	353	346	339	298	346	7	11	11	356	332	321	337	354.0
16-Feb	315	339	337	324	349	18	331	320	339	314	313	319	310	328	338	340	355	357	343	346	344	349	351	357	342.9
17-Feb	356	356	360	2	353	357	355	359	357	359	3	4	3	355	355	355	357	354	356	357	358	354	355	360	357.4
18-Feb	360	357	356	357	355	357	357	356	359	355	356	358	360	353	352	350	338	344	334	321	313	339	201	154	354.0
19-Feb	207	142	127	121	124	127	127	127	124	126	127	128	127	128	128	136	151	168	159	139	124	136	131	128	134.3
20-Feb	125	126	123	124	122	126	126	127	126	122	128	124	135	165	259	289	344	341	345	350	352	341	339	338	72.5
21-Feb	337	333	341	335	337	337	330	313	328	322	287	306	333	353	10	9	13	12	7	12	0	356	356	356	352.6
22-Feb	357	347	349	347	341	336	345	341	336	334	326	320	318	317	316	326	330	330	329	341	37	116	117	120	347.5
23-Feb	120	128	131	143	146	135	134	181	298	176	209	237	217	223	225	173	135	138	132	348	50	289	300	263	151.9
24-Feb	231	130	129	139	132	132	125	121	119	121	116	122	122	121	128	122	116	115	123	125	120	117	121	122	123.2
25-Feb	125	118	330	335	336	340	323	344	218	157	130	131	124	134	133	134	122	350	339	351	356	354	356	357	13.3
26-Feb	1	353	344	339	330	351	351	349	355	351	353	353	356	359	358	357	353	351	346	346	346	339	348	349	350.5
27-Feb	356	356	349	359	352	352	346	338	344	349	344	347	340	337	321	294	10	354	10	356	333	330	331	320	348.8
28-Feb	150	145	128	129	123	123	129	134	135	133	125	133	128	133	141	150	151	143	140	131	120	126	133	129	134.6
	14.1	19.9	25.6	20.7	22.2	19.4	6.3	11.6	19.5	11.9	15.6	27.8	24.6	34.4	17.5	27.6	25.1	17.2	20.5	17.7	18.0	23.3	17.9	17.9	
	Diurnal Average																								

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 45m (WD45) - deg

Lower Camp Met Tower - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 105 deg on Feb 25 02:00

Minimum Value: 2 deg on Feb 20 02:00

Percentiles: P_1 = 3 P_{10} = 6 Q_1 = 8 Median = 10 Q_3 = 16 P_{90} = 29 P_{99} = 90

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

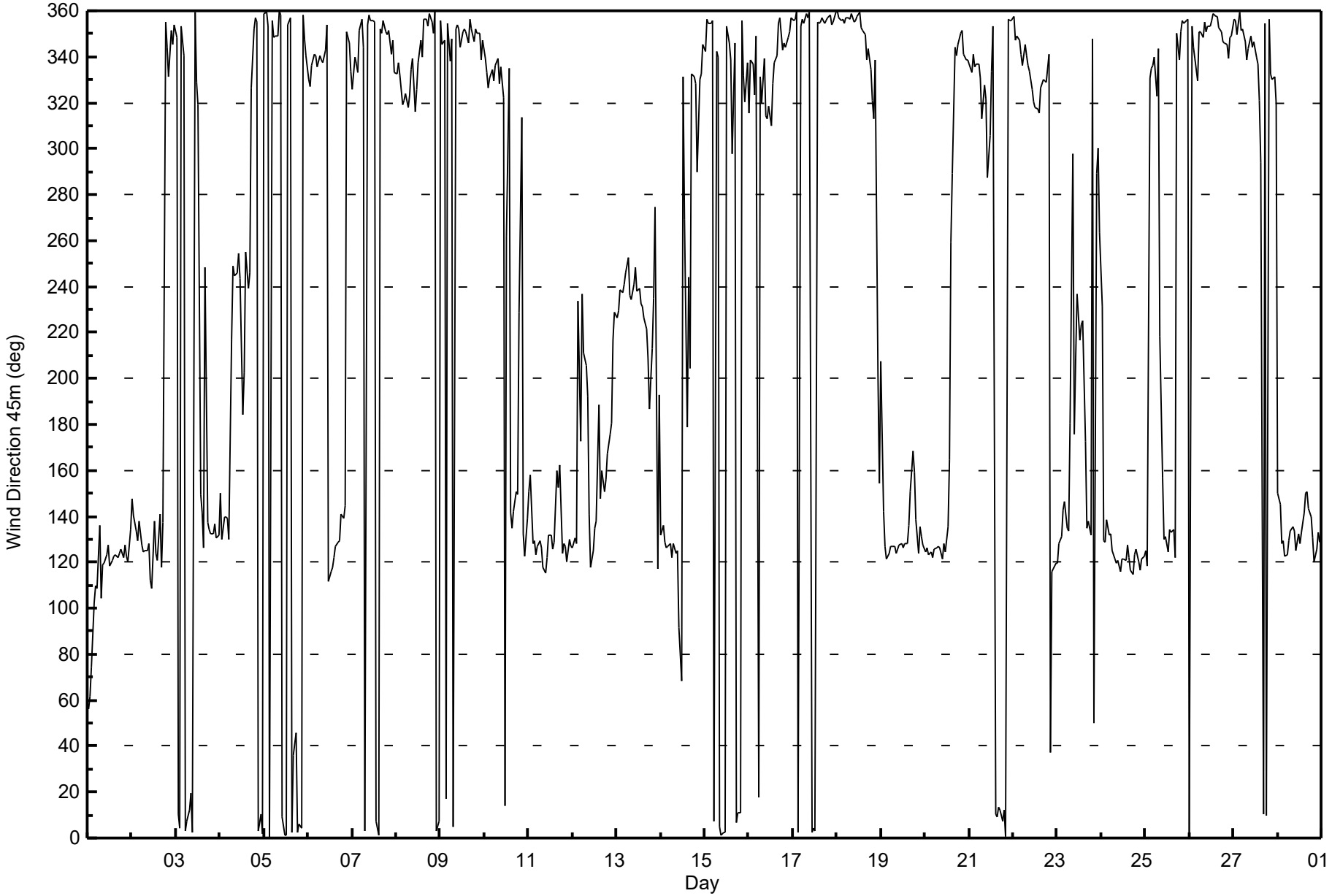
Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	14	19	14	19	9	15	16	16	15	11	8	9	11	12	8	8	8	8	7	7	5	7	11	18	19
2-Feb	9	7	7	10	9	10	11	10	17	49	73	33	14	23	18	9	21	17	41	14	9	11	10	12	73
3-Feb	9	11	14	10	18	10	11	10	14	14	15	20	28	69	16	62	76	10	8	7	7	8	10	13	76
4-Feb	20	13	8	8	9	5	22	10	18	8	14	32	41	43	6	6	11	42	9	10	8	8	9	10	43
5-Feb	9	10	8	9	12	8	9	9	11	15	15	13	20	12	19	19	16	24	22	10	18	14	10	13	24
6-Feb	9	12	13	16	12	13	13	24	11	15	31	64	10	11	14	13	17	26	43	18	28	102	26	13	102
7-Feb	22	14	20	25	17	13	10	12	9	11	10	10	8	11	11	8	8	14	10	8	9	11	13	9	25
8-Feb	12	11	22	11	10	11	8	10	12	16	15	12	14	11	10	10	9	8	7	10	7	11	15	23	23
9-Feb	23	8	11	29	26	11	10	38	24	16	8	9	6	9	8	7	8	8	8	8	10	8	10	10	38
10-Feb	11	12	10	10	13	11	12	14	16	21	62	93	39	88	96	24	9	13	13	65	77	7	8	12	96
11-Feb	14	49	7	5	5	5	4	5	4	4	10	5	5	7	9	22	10	8	8	7	4	4	18	5	49
12-Feb	4	8	17	44	65	23	57	26	27	23	5	6	6	10	17	7	9	9	7	6	8	8	16	7	65
13-Feb	8	9	6	5	6	7	8	11	9	10	7	7	5	8	8	5	5	17	94	23	61	39	93	43	94
14-Feb	6	6	5	3	3	2	5	7	5	11	46	74	67	75	18	75	71	11	11	8	41	29	22	36	75
15-Feb	63	13	15	9	12	14	12	12	11	11	12	12	8	14	14	25	39	9	13	28	22	49	24	8	63
16-Feb	50	28	14	18	8	29	21	25	6	18	20	20	19	16	11	11	13	10	11	9	10	8	8	7	50
17-Feb	9	10	10	12	9	9	9	10	8	9	11	11	10	10	9	8	9	9	9	10	9	8	9	11	12
18-Feb	11	9	10	9	10	9	10	8	10	10	9	10	12	11	9	13	11	13	12	7	6	42	19	53	53
19-Feb	24	38	8	3	4	3	6	4	7	4	4	7	10	6	6	9	4	7	6	10	9	8	5	3	38
20-Feb	3	2	4	3	3	4	5	6	4	7	9	9	22	90	29	16	20	12	8	5	9	8	8	8	90
21-Feb	8	8	9	10	6	11	14	13	12	13	28	24	20	13	16	13	12	9	10	9	9	11	8	8	28
22-Feb	7	9	7	8	12	11	8	10	12	10	14	14	15	15	15	12	11	10	12	23	54	14	10	8	54
23-Feb	14	16	12	15	16	15	11	35	85	25	24	23	42	29	17	55	17	10	29	13	54	91	22	38	91
24-Feb	76	6	5	5	4	3	5	4	3	5	4	6	10	11	11	16	12	9	6	4	6	6	13	18	76
25-Feb	24	105	41	26	17	11	17	36	15	31	8	8	13	9	18	17	12	60	9	9	8	7	8	8	105
26-Feb	9	10	10	13	12	11	9	8	9	8	8	9	7	9	12	11	11	9	9	9	10	11	9	10	13
27-Feb	9	13	13	11	10	10	10	13	16	11	10	14	22	25	32	45	16	11	5	16	12	10	39	22	45
28-Feb	45	5	3	5	5	5	7	4	8	6	6	7	5	3	9	5	4	9	5	4	9	7	7	8	45
	76	105	41	44	65	29	57	38	85	49	73	93	67	90	96	75	76	60	94	65	77	102	93	53	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 45m (WD45) - deg

Lower Camp Met Tower - February 2026



Direction of Maximum Speed: 239 deg on Feb 13 04:00
Direction of Maximum Daily Speed Average: 0.7 deg on Feb 17

Direction of Minimum Speed: 265 deg on Feb 25 04:00

Direction of Minimum Daily Speed Average: 0.8 deg on Feb 14

Monthly Average Direction: 15.6 deg

Hours in Service:	672
Hours of Data:	666
Hours of Missing Data:	6
Percent Operational Time:	99.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	55	59	73	97	112	123	148	121	120	127	127	131	123	126	125	127	125	126	128	127	130	128	128	138	123.4
2-Feb	147	144	137	134	138	132	130	133	132	133	130	133	150	137	138	155	142	164	353	3	351	4	358	4	129.7
3-Feb	355	15	8	359	351	9	9	17	22	7	16	349	332	126	142	133	153	148	140	139	138	143	139	140	94.2
4-Feb	151	139	145	149	154	165	236	248	247	246	252	251	254	250	264	252	260	331	358	1	359	7	14	5	250.0
5-Feb	3	5	359	5	2	353	353	353	2	360	12	4	1	356	5	6	35	50	11	10	17	11	360	7	2.9
6-Feb	349	350	6	97	87	2	351	339	343	101	113	119	121	124	126	128	128	122	120	140	146	148	127	128	113.4
7-Feb	142	11	29	36	7	3	353	6	358	2	360	0	1	11	8	358	353	0	359	357	359	349	351	344	0.8
8-Feb	342	346	346	327	330	332	326	320	320	322	321	330	340	348	343	1	359	359	4	2	357	13	9	36	344.5
9-Feb	36	32	38	99	86	56	17	45	12	5	1	350	355	357	356	352	358	357	353	358	357	359	349	354	2.3
10-Feb	351	350	339	340	338	UO	UO	UO	UO	UO	UO	241	203	182	169	145	146	157	151	171	158	149	142	150	151.7
11-Feb	143	126	146	146	146	134	148	156	156	160	158	157	150	162	172	223	183	195	177	180	157	159	148	179	160.2
12-Feb	174	196	222	252	234	249	252	241	228	209	152	142	154	153	200	163	180	169	175	186	197	204	226	234	197.4
13-Feb	231	233	239	239	244	249	257	250	238	241	251	242	240	234	234	231	228	227	219	239	241	268	321	213	240.7
14-Feb	185	192	166	158	165	160	170	177	183	212	45	113	92	298	129	124	119	345	352	336	328	333	337	1	163.6
15-Feb	352	2	0	358	1	10	351	351	7	6	6	6	358	353	345	324	359	18	25	30	28	13	0	352	4.3
16-Feb	338	342	4	357	8	13	7	341	329	321	333	318	313	330	342	345	0	4	355	356	355	355	356	0	350.6
17-Feb	359	1	5	5	1	2	1	4	1	3	5	6	5	358	358	358	359	358	359	1	360	357	358	1	0.7
18-Feb	2	360	358	0	358	359	359	360	2	358	359	0	3	356	354	352	344	347	339	335	333	349	35	182	356.8
19-Feb	238	219	166	176	161	161	169	151	147	154	155	135	136	137	133	147	164	181	176	162	147	160	158	162	158.3
20-Feb	160	162	162	158	160	164	157	162	161	172	133	152	123	146	305	315	353	353	356	1	359	350	346	351	26.7
21-Feb	354	349	351	349	354	14	20	22	359	354	311	309	336	359	14	11	16	17	10	16	7	2	1	1	2.6
22-Feb	3	356	357	354	350	346	351	349	342	344	335	334	332	332	324	336	343	350	348	57	123	124	122	124	3.5
23-Feb	122	127	131	138	150	135	140	187	210	181	215	258	269	249	232	93	134	148	152	123	143	155	266	320	149.8
24-Feb	244	194	154	172	165	196	194	199	189	185	160	134	135	127	123	119	117	118	128	143	135	132	123	121	142.8
25-Feb	125	108	111	265	327	340	326	320	170	150	137	140	128	130	130	121	101	354	356	5	2	359	1	1	30.1
26-Feb	3	359	353	350	342	353	355	353	359	358	357	359	359	0	359	360	354	353	349	348	348	343	351	351	353.8
27-Feb	359	2	354	3	359	358	359	357	1	358	347	347	341	336	330	323	14	4	13	25	25	357	349	324	357.9
28-Feb	247	181	165	152	158	151	157	146	148	150	142	129	138	147	154	149	151	158	158	153	155	158	156	154	151.6
	11.5	12.6	16.0	3.3	11.1	1.3	346.1	348.7	350.9	344.1	4.0	26.6	26.5	39.8	19.3	27.8	24.2	19.3	26.0	25.7	31.5	31.2	26.8	23.8	
	Diurnal Average																								

UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 100m (WD100) - deg

Lower Camp Met Tower - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 101 deg on Feb 20 14:00

Minimum Value: 3 deg on Feb 28 19:00

Percentiles: P_1 = 3 P_{10} = 5 Q_1 = 6 Median = 8 Q_3 = 13 P_{90} = 26 P_{99} = 82

Hours in Service:	672
Hours of Data:	666
Hours of Missing Data:	6
Hours of Calibration:	0
Percent Operational Time:	99.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	7	11	11	15	6	10	16	13	9	6	4	6	6	7	5	4	6	6	4	4	3	4	5	11	16
2-Feb	7	7	5	5	5	4	4	4	4	13	32	26	14	18	15	9	12	19	91	9	5	8	8	8	91
3-Feb	7	10	9	8	13	7	10	9	13	12	16	28	28	82	18	15	36	9	7	6	5	8	8	9	82
4-Feb	13	7	6	8	7	12	10	6	5	5	8	16	42	31	4	4	8	36	7	8	6	7	7	8	42
5-Feb	7	8	6	7	9	6	6	7	10	14	12	10	15	10	16	12	10	18	24	7	15	14	10	14	24
6-Feb	4	6	51	58	87	54	13	12	50	46	32	21	7	6	7	7	13	14	32	16	17	27	47	35	87
7-Feb	76	30	14	27	13	11	9	8	6	9	8	8	8	8	9	8	5	10	9	7	7	7	8	7	76
8-Feb	7	7	19	10	7	7	6	5	4	13	12	8	9	8	8	10	7	7	6	7	5	11	17	19	19
9-Feb	22	29	26	22	11	25	9	27	14	16	10	6	6	7	7	6	5	6	6	6	8	7	7	7	29
10-Feb	7	10	7	6	9	UO	UO	UO	UO	UO	UO	32	18	18	17	9	9	11	9	18	14	5	7	6	32
11-Feb	8	7	6	6	7	5	5	5	3	4	4	4	6	5	16	6	9	6	10	13	7	7	24	9	24
12-Feb	12	14	30	8	42	6	11	11	8	20	9	7	8	10	11	8	9	12	5	4	7	7	10	5	42
13-Feb	6	6	3	3	3	3	3	8	4	6	4	4	4	5	6	4	5	5	8	6	26	23	23	34	34
14-Feb	29	30	11	9	5	5	6	14	16	15	69	28	97	90	9	81	9	52	6	5	5	5	9	27	97
15-Feb	49	11	14	8	10	11	9	8	8	9	10	10	8	12	12	23	25	7	7	12	14	21	16	8	49
16-Feb	9	11	7	8	5	9	12	11	9	16	6	15	14	15	7	9	10	7	8	6	7	6	7	5	16
17-Feb	6	7	7	10	8	7	7	8	6	7	8	9	7	8	7	6	6	7	7	9	6	6	7	9	10
18-Feb	9	7	7	8	8	7	7	7	7	8	7	8	10	9	6	10	8	10	8	5	10	10	41	30	41
19-Feb	7	23	17	11	5	10	14	6	8	11	9	6	6	6	7	9	7	4	6	6	7	9	5	3	23
20-Feb	4	4	7	4	3	6	7	8	11	10	13	11	15	101	27	13	15	7	5	5	7	3	5	5	101
21-Feb	6	6	6	7	4	8	7	15	8	12	30	21	18	13	12	10	10	8	7	7	7	9	7	6	30
22-Feb	7	8	6	5	8	6	6	6	8	6	11	12	12	13	12	9	7	4	5	57	20	7	7	5	57
23-Feb	6	11	8	11	14	11	10	24	60	20	17	29	78	79	43	66	26	10	14	18	10	11	30	14	79
24-Feb	32	12	17	13	13	14	13	18	13	10	16	9	10	4	7	9	7	5	7	5	6	6	6	7	32
25-Feb	12	15	43	94	42	5	16	67	33	17	11	14	11	7	12	14	14	44	7	8	6	5	6	6	94
26-Feb	7	8	6	7	9	7	6	5	6	6	6	7	5	7	9	10	8	6	7	7	7	7	6	7	10
27-Feb	7	10	10	10	9	8	9	10	12	9	8	12	18	21	28	42	12	6	7	4	6	6	7	32	42
28-Feb	44	23	35	17	8	11	9	5	8	7	14	6	6	5	6	4	3	4	3	5	4	3	3	4	44
	76	30	51	94	87	54	16	67	60	46	69	32	97	101	43	81	36	52	91	57	26	27	47	35	
	Diurnal Maximum																								

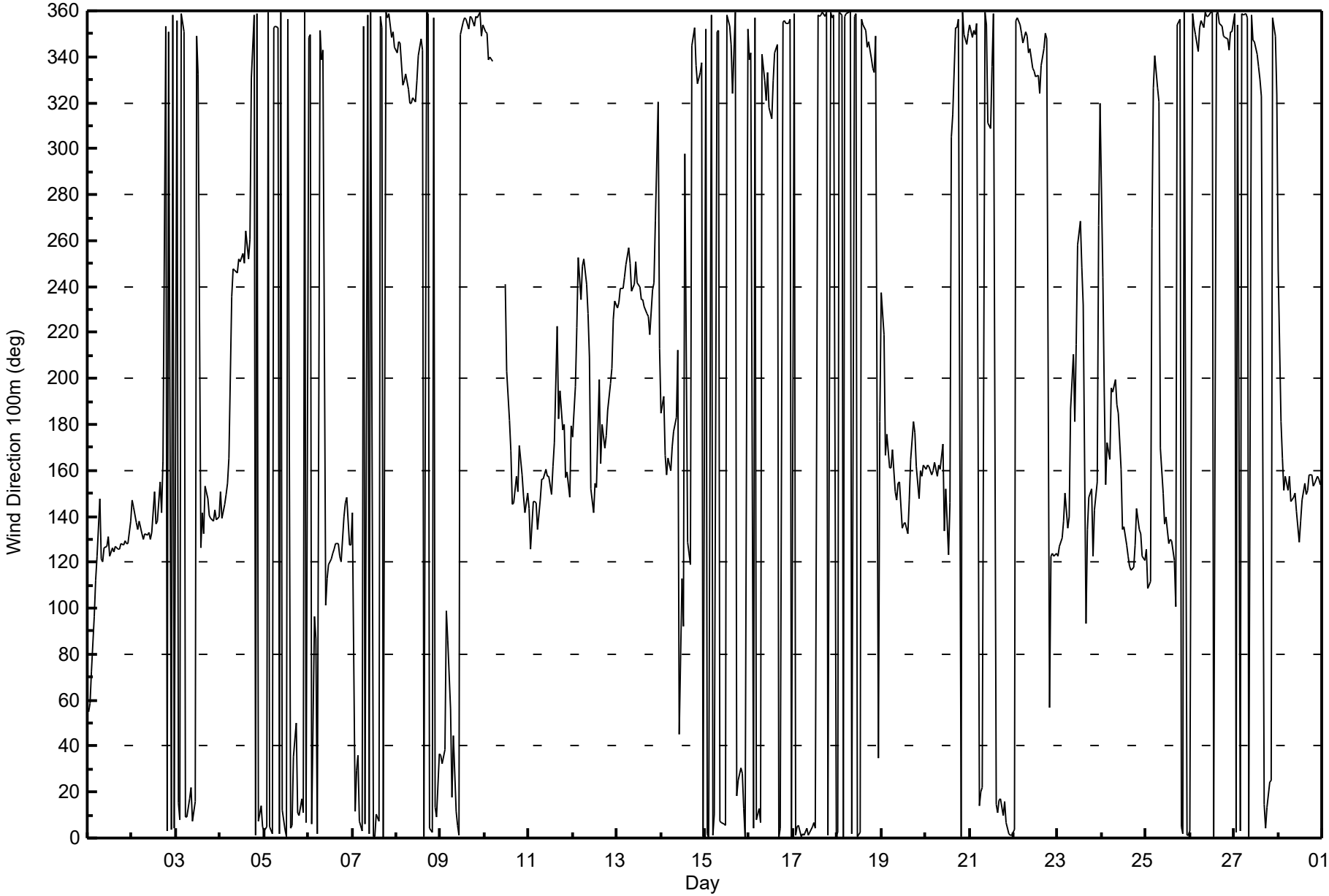
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 100m (WD100) - deg

Lower Camp Met Tower - February 2026



Direction of Maximum Speed: 246 deg on Feb 13 04:00
Direction of Maximum Daily Speed Average: 8.5 deg on Feb 17

Direction of Minimum Speed: 38 deg on Feb 25 07:00

Direction of Minimum Daily Speed Average: 2.4 deg on Feb 20

Monthly Average Direction: 21.6 deg

Hours in Service:	672
Hours of Data:	657
Hours of Missing Data:	15
Percent Operational Time:	97.8

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	50	60	74	98	123	136	159	136	129	135	134	137	132	134	129	133	130	129	134	137	136	138	139	144	130.6
2-Feb	147	151	145	143	143	141	139	143	144	150	148	152	165	160	161	166	192	233	319	358	360	15	16	17	139.6
3-Feb	5	23	16	12	3	15	16	26	30	21	40	20	28	119	144	147	164	155	151	154	148	151	149	148	108.7
4-Feb	154	UO	UO	161	179	209	243	253	251	250	254	256	266	267	274	265	273	333	8	8	7	15	19	13	266.2
5-Feb	12	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	14	12	41	58	25	18	34	32	30	52	--
6-Feb	47	73	135	123	129	118	106	107	116	131	130	125	128	133	133	134	131	126	121	139	140	150	144	134	127.5
7-Feb	158	14	63	54	20	15	8	13	7	11	9	10	12	17	17	8	1	9	14	11	11	1	3	2	12.0
8-Feb	357	1	11	351	349	353	354	335	331	336	334	337	348	352	351	11	6	9	15	14	9	27	19	54	357.3
9-Feb	78	94	109	112	109	100	50	65	33	22	15	1	7	6	8	3	5	6	5	10	9	12	5	4	20.4
10-Feb	6	8	354	354	352	353	359	358	321	284	221	182	164	172	182	163	156	167	155	149	160	166	166	180	164.5
11-Feb	188	190	196	204	205	195	197	194	194	190	179	182	183	201	218	230	204	211	207	210	205	212	244	216	200.8
12-Feb	217	222	247	261	250	263	257	252	244	228	187	182	171	172	207	177	196	187	192	200	214	222	235	239	217.4
13-Feb	237	239	245	246	251	257	265	265	248	248	257	247	243	239	238	238	238	244	239	257	250	273	274	273	248.5
14-Feb	239	228	228	204	210	202	221	228	228	247	291	142	142	82	112	106	108	356	360	13	351	263	340	14	251.2
15-Feb	9	10	10	6	11	18	5	6	14	17	16	15	10	5	356	351	11	28	32	42	38	34	30	16	17.9
16-Feb	10	10	13	6	14	18	18	19	52	47	25	3	329	342	351	353	9	14	11	12	10	6	8	9	8.5
17-Feb	6	9	12	13	12	11	11	14	10	11	11	12	10	6	6	5	7	5	7	9	6	5	5	8	8.5
18-Feb	9	7	6	6	5	6	6	6	8	5	7	7	10	3	2	358	353	353	347	347	347	0	24	152	4.1
19-Feb	224	229	203	203	182	180	175	167	164	190	170	155	150	154	147	168	187	191	190	182	180	190	188	200	180.2
20-Feb	201	197	193	172	187	179	160	168	166	173	158	145	133	104	335	331	4	7	10	12	9	4	359	10	39.8
21-Feb	11	9	7	6	17	24	31	36	25	18	18	323	345	9	23	17	23	24	16	21	16	13	11	11	16.2
22-Feb	15	10	11	6	4	358	2	5	356	1	351	354	355	351	349	359	18	54	103	128	129	129	128	131	33.9
23-Feb	127	128	134	138	154	141	152	182	127	185	227	259	304	313	331	11	150	173	170	172	186	215	273	329	161.4
24-Feb	329	272	245	248	242	243	242	242	228	211	197	185	175	143	130	124	128	134	145	154	146	151	135	133	177.3
25-Feb	133	121	114	125	174	30	38	159	171	164	158	156	140	138	139	122	81	13	16	20	12	10	11	10	67.2
26-Feb	11	9	7	12	357	1	5	3	9	10	7	9	6	7	4	5	360	359	355	354	354	349	356	356	1.4
27-Feb	3	10	1	10	9	9	14	17	19	12	355	350	344	342	343	344	19	11	19	28	31	45	54	113	9.6
28-Feb	254	226	176	174	162	166	160	157	156	160	160	144	153	164	172	163	168	170	182	172	182	183	179	174	167.8
	20.9	8.4	1.2	346.6	340.7	358.1	340.6	339.2	342.3	297.5	351.3	27.9	36.5	62.9	27.8	37.7	26.7	29.6	34.9	42.7	43.2	41.9	36.4	36.9	
	Diurnal Average																								

UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 163m (WD163) - deg

Lower Camp Met Tower - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 100 deg on Feb 25 07:00

Minimum Value: 2 deg on Feb 19 20:00

Percentiles: P_1 = 3 P_{10} = 4 Q_1 = 6 Median = 8 Q_3 = 11 P_{90} = 17 P_{99} = 65

Hours in Service:	672
Hours of Data:	657
Hours of Missing Data:	15
Hours of Calibration:	0
Percent Operational Time:	97.8

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	7	8	11	12	5	9	15	16	6	5	4	5	6	7	3	5	4	5	4	5	4	4	5	7	16
2-Feb	4	6	6	4	4	4	4	6	6	12	14	14	11	17	12	7	13	18	27	9	8	8	9	7	27
3-Feb	9	10	8	8	13	6	8	9	13	16	16	37	38	20	17	12	9	10	8	9	8	8	7	8	38
4-Feb	10	UO	UO	8	9	11	10	3	3	3	4	9	12	12	5	4	9	37	7	8	7	7	6	7	37
5-Feb	6	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	19	15	9	19	28	9	12	12	8	11	28
6-Feb	10	23	17	21	22	15	17	14	11	12	10	7	7	5	6	6	10	7	13	10	11	16	17	11	23
7-Feb	68	32	25	13	7	12	10	7	6	8	8	7	6	6	8	10	6	10	8	8	7	7	8	6	68
8-Feb	5	6	13	7	4	4	11	12	5	14	16	8	6	7	7	11	6	7	5	6	6	11	17	17	17
9-Feb	12	13	10	6	7	14	15	14	11	16	10	7	8	8	8	6	6	6	7	7	8	7	8	6	16
10-Feb	7	8	6	5	7	9	16	18	37	24	17	38	26	10	10	12	9	6	8	9	7	7	6	6	38
11-Feb	8	14	11	13	7	8	14	8	6	6	8	7	10	6	12	5	7	6	5	6	13	7	24	15	24
12-Feb	7	7	13	4	17	4	4	4	6	12	10	10	8	10	8	6	10	11	4	4	7	7	7	4	17
13-Feb	5	5	3	2	3	4	3	6	3	5	3	4	3	4	6	5	7	7	11	4	10	21	16	54	54
14-Feb	11	13	10	10	7	9	9	13	14	4	59	33	87	57	15	14	7	63	6	8	10	57	45	24	87
15-Feb	39	11	13	8	9	7	8	6	6	9	9	9	10	14	11	17	17	3	2	5	5	8	9	9	39
16-Feb	7	9	6	6	4	3	3	9	8	27	10	20	13	11	7	10	10	7	8	6	7	6	7	5	27
17-Feb	7	8	8	10	8	7	7	8	7	7	7	8	7	7	7	6	6	7	7	8	6	6	6	8	10
18-Feb	8	6	7	7	8	8	7	6	7	8	8	8	10	9	7	9	6	8	7	3	11	7	8	52	52
19-Feb	14	8	6	9	8	9	7	8	6	14	8	6	7	7	9	10	6	3	5	2	6	11	9	5	14
20-Feb	9	8	9	9	6	8	5	4	5	4	7	7	14	44	28	10	9	5	4	5	5	4	5	3	44
21-Feb	4	5	5	6	5	3	5	5	6	5	23	21	21	13	12	8	9	6	6	5	7	8	6	6	23
22-Feb	6	8	6	6	7	6	7	6	6	6	8	9	9	9	9	8	13	14	15	10	5	4	5	4	15
23-Feb	5	7	6	8	12	10	12	13	68	21	21	35	85	37	36	70	26	8	8	9	9	4	28	7	85
24-Feb	10	24	6	6	11	8	4	4	7	8	12	9	11	7	7	9	8	6	6	5	5	6	4	4	24
25-Feb	8	6	3	10	93	19	100	17	7	12	14	16	14	7	9	20	11	24	5	6	6	6	6	5	100
26-Feb	6	8	6	6	7	7	5	5	6	6	6	6	6	8	8	11	7	6	6	5	6	5	6	6	11
27-Feb	6	9	10	9	8	8	8	8	9	10	9	16	19	21	22	25	12	6	7	4	7	5	5	31	31
28-Feb	34	45	9	7	5	3	6	5	4	5	10	5	8	4	5	8	8	9	4	5	3	2	5	5	45
	68	45	25	21	93	19	100	18	68	27	59	38	87	57	36	70	26	63	28	10	13	57	45	54	
	Diurnal Maximum																								

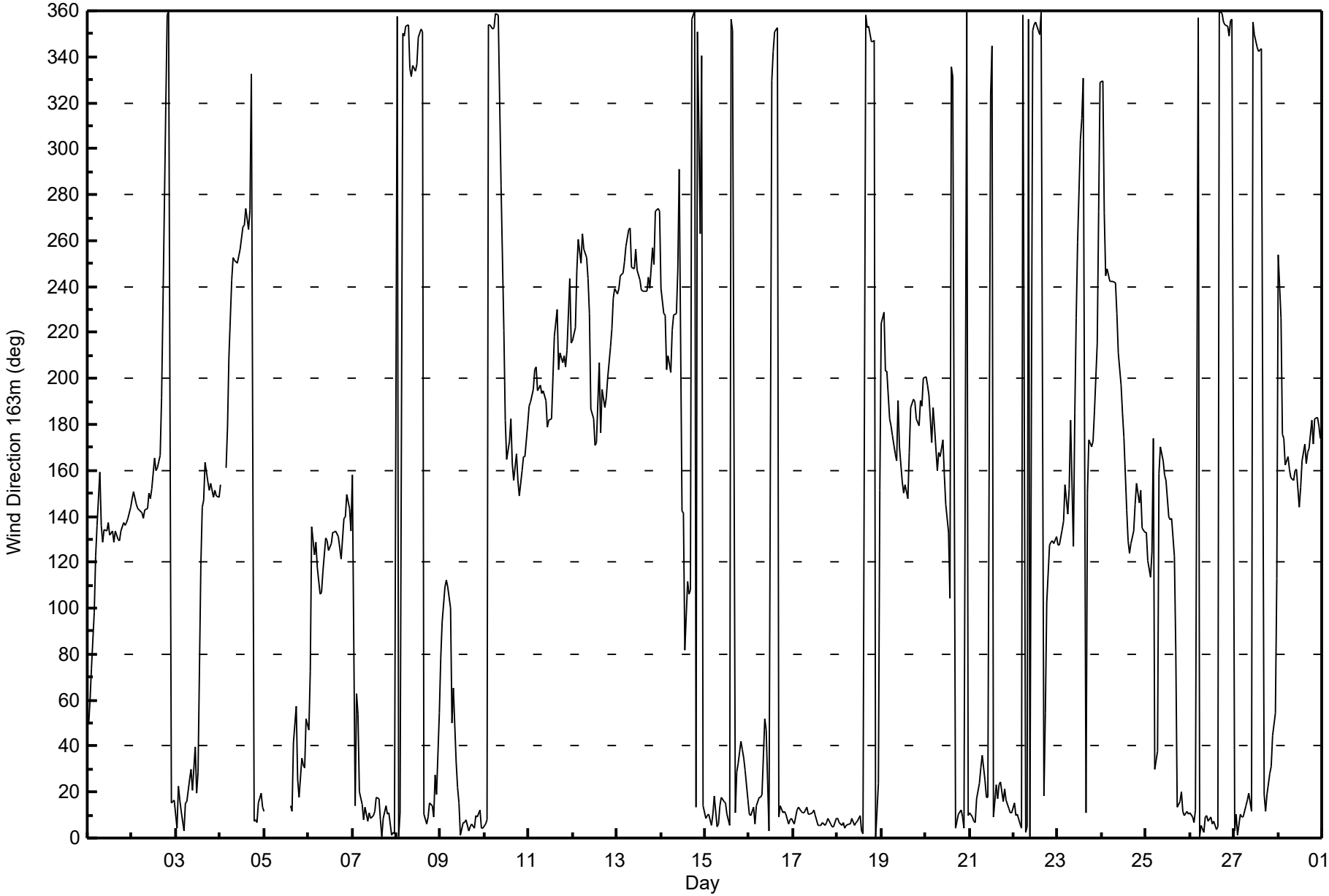
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 163m (WD163) - deg

Lower Camp Met Tower - February 2026



Maximum Value: 0.4 km/h on Feb 24 14:00

Maximum Daily Average: 0.0 km/h on Feb 14

Minimum Value: -1.2 km/h on Feb 13 05:00

Minimum Daily Average: -0.5 km/h on Feb 13

Maximum Diurnal Average: -0.1 km/h at hour 9

Minimum Diurnal Average: -0.3 km/h at hour 14

Monthly Average: -0.18 km/h

Percentiles: P_1 = -1.0 P_{10} = -0.5 Q_1 = -0.3 Median = -0.1 Q_3 = 0.0 P_{90} = 0.1 P_{99} = 0.3

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	-0.1	0.0	-0.2	-0.1	-0.2	-0.1	-0.2	-0.3	-0.2	-0.4	-0.6	-0.2	-0.2	-0.4	-0.3	-0.3	-0.2	-0.4	-0.6	-0.5	-0.5	-0.4	-0.3	-0.3	0.1
2-Feb	-0.5	-1.0	-0.7	-0.2	-0.6	-0.2	-0.3	-0.1	0.1	0.2	0.0	0.1	-0.2	0.0	-0.1	-0.3	-0.1	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0	-0.2	0.2
3-Feb	-0.2	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.2	-0.1	0.0	0.0	-0.1	-0.4	-0.2	-0.4	-0.7	-0.6	-0.3	-0.2	0.0
4-Feb	-0.4	-0.5	-1.0	-0.8	-0.7	-0.1	-0.2	-0.1	0.0	-0.6	-0.6	-0.6	-0.3	-0.4	-0.7	-0.4	-0.4	-0.3	-0.5	-0.2	-0.3	-0.2	0.1	0.1	-0.4	0.1
5-Feb	0.1	0.0	-0.5	0.0	-0.1	-0.7	-0.5	-0.5	-0.2	-0.4	-0.3	-0.2	0.0	-0.2	0.0	-0.3	-0.1	0.1	-0.1	0.3	0.0	-0.1	-0.1	-0.1	-0.2	0.3
6-Feb	0.1	-0.1	0.0	-0.2	-0.2	-0.1	-0.2	-0.1	0.0	-0.2	-0.1	0.0	-0.3	-0.2	-0.2	-0.3	-0.1	-0.3	-0.1	-0.3	0.1	0.1	0.0	0.0	-0.1	0.1
7-Feb	-0.1	0.0	-0.1	0.0	-0.1	-0.2	-0.1	0.2	-0.4	-0.2	-0.3	-0.4	-0.3	-0.1	-0.1	-0.4	-0.5	-0.1	-0.2	-0.3	-0.3	0.0	0.0	0.1	-0.2	0.2
8-Feb	0.0	0.0	-0.2	-0.2	-0.3	-0.1	-0.3	-0.1	-0.1	-0.2	-0.3	0.0	-0.1	-0.2	-0.2	-0.1	-0.1	-0.2	-0.1	-0.1	-0.3	-0.1	-0.1	0.0	-0.1	0.0
9-Feb	-0.1	0.0	-0.1	0.0	0.0	-0.1	-0.2	0.0	0.0	-0.1	-0.3	-0.1	-0.5	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.3	-0.2	-0.3	0.0	-0.1	-0.2	0.0
10-Feb	0.0	0.1	-0.1	0.1	-0.1	-0.1	-0.2	0.0	0.1	-0.1	0.0	0.1	0.1	-0.1	0.0	-0.2	-0.4	-0.2	-0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1
11-Feb	0.0	0.0	0.2	0.0	-0.1	0.1	0.1	-0.1	-0.1	-0.2	-0.6	-0.9	-0.5	-0.5	0.0	-0.1	-0.1	0.0	0.3	0.2	0.2	0.0	0.1	0.2	-0.1	0.3
12-Feb	0.0	0.1	0.4	0.2	-0.2	-0.1	0.1	0.0	-0.1	-0.1	-0.8	-0.2	-0.5	-0.4	-0.4	-0.2	-0.3	0.0	-0.3	-0.9	-1.0	-1.0	-0.5	-0.5	-0.3	0.4
13-Feb	-0.7	-0.6	-1.1	-1.1	-1.2	-1.1	-0.7	-0.2	-0.2	-0.7	-0.8	-0.6	-0.9	-0.6	-0.6	-0.4	-0.2	0.0	0.0	0.1	-0.1	0.0	0.0	0.0	-0.5	0.1
14-Feb	0.0	0.0	0.2	0.3	0.3	0.1	0.0	0.1	0.1	0.1	-0.1	-0.1	0.3	-0.1	-0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.3
15-Feb	0.1	-0.1	-0.2	-0.3	-0.2	-0.2	-0.2	-0.3	0.0	0.0	-0.2	-0.1	-0.5	-0.2	-0.1	-0.2	-0.1	0.0	0.0	-0.2	-0.1	0.0	0.1	-0.1	-0.1	0.1
16-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	-0.2	0.2	0.2	-0.1	-0.1	-0.2	-0.2	-0.3	-0.1	-0.2	-0.3	-0.2	-0.6	-0.3	-0.1	-0.1	0.2
17-Feb	-0.2	-0.1	-0.2	0.1	-0.1	-0.2	-0.5	0.0	-0.3	-0.4	0.0	0.1	-0.3	-0.8	-0.4	-0.4	0.0	-0.4	-0.3	-0.2	-0.3	-0.5	-0.5	-0.3	-0.3	0.1
18-Feb	0.0	-0.4	-0.6	-0.4	-0.3	0.0	-0.3	-0.3	-0.2	-0.3	-0.3	-0.4	-0.4	-0.3	-0.5	-0.3	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.0	0.1	-0.2	0.1
19-Feb	0.1	0.2	0.2	0.3	-0.1	-0.3	-0.2	-0.5	-0.2	-0.5	-0.7	-0.7	-0.4	-0.7	-0.5	-0.6	-0.1	-0.4	0.1	0.0	-0.4	0.1	0.1	-0.1	-0.2	0.3
20-Feb	-0.4	-0.1	-0.2	-0.1	-0.2	-0.1	-0.1	-0.1	0.0	-0.1	-0.2	-0.2	-0.4	-0.2	-0.2	0.0	-0.1	-0.1	-0.2	-0.2	-0.2	0.0	0.0	-0.1	-0.2	0.0
21-Feb	0.0	-0.2	-0.2	-0.1	-0.1	0.0	0.0	-0.1	-0.1	0.0	0.1	-0.1	-0.2	-0.2	0.2	0.0	0.1	-0.1	0.0	0.3	0.0	-0.1	-0.2	-0.2	-0.1	0.3
22-Feb	-0.1	-0.2	-0.3	-0.3	-0.2	0.0	-0.4	-0.1	0.1	0.1	-0.3	-0.3	-0.3	-0.2	-0.1	-0.2	0.1	0.0	0.0	0.0	-0.1	-0.2	-0.4	-0.4	-0.1	0.1
23-Feb	-0.1	-0.2	-0.4	-0.1	-0.3	-0.2	0.0	0.0	-0.1	-0.2	-0.4	-0.5	-0.4	-0.7	-0.5	-0.4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.0
24-Feb	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.1	0.1	-0.1	-0.3	-0.5	-0.2	0.4	-0.3	-0.1	-0.3	0.0	0.1	0.0	0.1	0.1	0.0	-0.1	0.0	0.4
25-Feb	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.3	-0.4	-0.1	-0.4	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.1	-0.3	-0.3	-0.3	-0.1	0.0
26-Feb	-0.3	0.0	-0.4	-0.1	-0.1	-0.3	-0.3	-0.4	-0.1	-0.6	-0.5	-0.4	-0.4	-0.3	-0.4	-0.3	-0.5	-0.6	-0.6	-0.7	-0.4	-0.5	-0.5	-0.4	-0.4	0.0
27-Feb	-0.2	-0.2	-0.1	0.0	-0.2	-0.2	-0.1	-0.2	0.0	-0.3	-0.3	-0.3	-0.4	-0.2	-0.1	0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1
28-Feb	0.0	0.0	0.2	0.1	-0.1	-0.2	-0.2	0.0	-0.3	0.0	-0.4	-0.4	-0.5	-0.7	-0.6	-0.7	-0.4	0.0	0.0	-0.1	-0.2	-0.3	-0.5	-0.3	-0.2	0.2
	-0.1	-0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	Diurnal Average	
	0.1	0.2	0.4	0.3	0.3	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.4	0.2	0.1	0.1	0.1	0.3	0.3	0.2	0.1	0.1	0.2	Diurnal Maximum	

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 4.4 km/h on Feb 17 17:00

Minimum Value: 0.1 km/h on Feb 18 23:00

Percentiles: P_1 = 0.1 P_{10} = 0.4 Q_1 = 0.7 Median = 1.2 Q_3 = 2.1 P_{90} = 2.8 P_{99} = 4.1

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1.2	1.3	1.1	0.8	1.0	1.0	0.9	1.1	1.6	2.7	3.3	2.9	2.7	2.4	3.0	3.2	2.6	2.5	3.1	3.4	3.4	3.2	2.7	2.2	3.4
2-Feb	2.1	2.1	2.7	2.2	2.3	2.6	2.0	2.1	1.8	1.0	1.0	1.0	1.1	1.4	1.1	0.7	0.3	0.2	0.3	0.3	0.5	1.1	1.0	0.9	2.7
3-Feb	1.1	2.0	1.6	1.4	0.9	1.3	0.9	1.1	1.4	1.0	1.0	1.0	1.0	0.6	0.9	0.6	0.5	0.8	1.1	1.6	2.0	2.2	2.8	3.1	3.1
4-Feb	2.1	2.9	2.8	2.5	2.2	1.5	0.7	1.0	1.1	2.1	2.7	2.0	1.1	0.9	1.4	1.5	1.8	1.9	2.9	2.6	2.5	2.8	2.4	2.3	2.9
5-Feb	2.4	2.7	2.8	2.8	2.7	2.7	3.0	2.6	2.3	2.8	2.2	1.9	1.7	1.4	1.3	1.2	1.3	1.0	0.8	1.4	1.2	0.9	0.9	0.8	3.0
6-Feb	1.0	0.8	0.7	0.8	0.8	0.7	0.9	0.7	0.9	1.0	1.2	2.0	2.2	2.8	2.0	2.0	1.4	1.1	0.7	0.8	0.7	0.6	0.5	0.2	2.8
7-Feb	0.3	0.4	0.6	0.3	1.2	2.0	1.9	2.4	2.3	2.2	2.3	2.2	2.1	2.2	2.0	1.7	1.9	1.6	1.4	1.5	1.6	1.5	1.2	1.3	2.4
8-Feb	1.3	1.1	1.0	1.0	1.1	1.2	1.0	0.9	0.6	0.8	1.2	1.7	1.9	1.9	1.7	1.6	1.8	1.3	1.2	0.9	1.1	0.8	0.8	0.3	1.9
9-Feb	0.2	0.1	0.3	0.3	0.4	0.4	0.7	0.6	0.8	1.1	1.2	1.6	1.6	1.8	1.9	1.9	2.1	1.8	1.9	1.9	1.7	1.4	1.2	1.4	2.1
10-Feb	1.2	1.0	1.0	1.1	1.0	0.8	0.7	0.6	0.6	0.6	0.5	0.6	0.7	0.5	0.5	1.1	0.8	0.6	0.5	0.5	0.5	0.7	0.7	0.5	1.2
11-Feb	0.4	0.3	0.5	0.9	1.2	0.6	0.6	1.1	1.4	1.4	2.0	2.2	2.0	1.5	1.1	0.9	0.7	0.5	0.4	0.5	0.6	0.9	0.6	0.6	2.2
12-Feb	0.9	0.7	1.0	1.2	1.3	1.1	0.7	0.9	1.2	1.1	1.4	2.0	1.6	1.7	1.2	1.4	1.5	1.2	2.1	2.0	1.7	1.2	2.0	2.2	2.2
13-Feb	1.9	2.3	2.9	2.9	3.1	3.0	2.1	1.4	1.5	2.3	2.7	2.2	2.0	1.4	1.1	0.8	0.6	0.5	0.3	0.6	0.8	0.7	0.1	0.1	3.1
14-Feb	0.1	0.4	0.4	0.6	0.6	0.7	0.9	0.5	0.6	0.7	0.4	0.6	0.9	0.9	0.6	0.4	0.3	1.1	0.7	0.7	0.3	0.1	0.8	1.5	1.5
15-Feb	1.1	2.3	2.1	2.0	1.8	1.9	1.6	1.5	2.1	2.1	2.0	2.2	1.9	1.8	1.5	1.3	1.2	1.2	1.2	1.4	0.8	0.6	0.4	0.6	2.3
16-Feb	0.4	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.4	0.8	1.1	1.8	1.8	2.1	1.9	2.4	1.8	2.0	2.0	2.1	2.3	2.4	2.7	2.7
17-Feb	2.5	2.3	2.2	1.9	1.9	3.1	3.2	2.9	3.1	3.4	3.7	3.9	4.4	3.6	3.8	4.1	4.4	3.9	3.9	3.3	4.0	3.7	4.0	3.8	4.4
18-Feb	3.9	4.1	4.4	3.9	3.5	3.5	4.2	4.1	4.0	3.8	3.6	3.6	3.3	2.8	2.8	2.5	2.1	1.8	1.4	0.6	0.1	0.1	0.1	0.3	4.4
19-Feb	0.4	0.6	0.6	0.7	0.7	1.0	1.0	1.5	1.8	1.8	2.0	2.1	1.9	2.4	2.3	2.0	0.9	0.6	0.9	1.4	1.4	0.9	0.8	1.0	2.4
20-Feb	1.0	1.1	1.2	1.2	1.4	1.0	1.2	1.0	0.9	0.7	1.0	0.8	0.6	0.5	0.9	1.3	1.6	1.1	1.3	1.5	2.0	1.3	1.4	1.2	2.0
21-Feb	1.0	0.9	1.0	1.0	0.8	0.3	0.3	0.3	0.5	0.7	1.1	1.5	1.7	2.1	2.3	2.4	2.2	1.8	2.0	2.6	2.5	2.2	2.2	2.1	2.6
22-Feb	1.9	1.6	1.7	1.9	1.7	1.9	1.9	1.5	1.3	1.5	1.4	1.5	1.5	1.8	1.7	1.4	1.2	0.9	0.7	0.7	1.2	1.9	2.1	2.4	2.4
23-Feb	1.7	1.2	1.5	1.1	1.1	1.1	0.5	0.4	0.3	0.8	1.0	0.8	0.6	1.0	0.9	0.4	0.7	0.4	0.2	0.2	0.1	0.1	0.2	0.1	1.7
24-Feb	0.1	0.2	0.2	0.2	0.2	0.4	0.9	1.0	1.0	1.2	1.3	1.3	1.7	1.8	1.5	1.4	1.1	0.6	0.3	0.4	0.6	0.6	0.5	0.6	1.8
25-Feb	0.5	0.4	0.4	0.5	0.5	0.3	0.3	0.1	0.2	0.4	1.1	1.7	1.6	1.0	0.9	0.7	0.7	0.6	1.3	1.5	2.2	2.5	2.4	2.3	2.5
26-Feb	2.4	2.5	2.1	1.6	1.5	2.1	1.8	2.1	2.2	2.3	2.8	3.2	3.8	3.7	3.8	3.5	3.9	4.1	3.5	4.3	4.2	3.9	3.5	3.1	4.3
27-Feb	3.8	2.9	2.3	2.5	2.1	1.9	1.1	0.8	1.1	1.5	2.1	1.7	1.8	1.8	1.6	1.6	1.3	0.7	0.4	0.2	0.1	0.2	0.1	0.1	3.8
28-Feb	0.1	0.2	0.4	0.8	0.9	1.2	0.8	1.0	0.9	1.0	1.3	1.2	2.2	2.1	2.1	1.7	1.6	0.8	0.8	1.0	0.8	0.8	1.1	1.5	2.2
	3.9	4.1	4.4	3.9	3.5	3.5	4.2	4.1	4.0	3.8	3.7	3.9	4.4	3.7	3.8	4.1	4.4	4.1	3.9	4.3	4.2	3.9	4.0	3.8	
	Diurnal Maximum																								

Maximum Value: 1.2 km/h on Feb 2 02:00

Maximum Daily Average: 0.5 km/h on Feb 1

Minimum Value: -0.5 km/h on Feb 23 14:00

Minimum Daily Average: 0.1 km/h on Feb 8

Maximum Diurnal Average: 0.4 km/h at hour 2

Minimum Diurnal Average: 0.2 km/h at hour 13

Monthly Average: 0.24 km/h

Percentiles: P_1 = -0.3 P_{10} = 0.0 Q_1 = 0.1 Median = 0.2 Q_3 = 0.4 P_{90} = 0.6 P_{99} = 0.9

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	0.2	0.0	0.2	0.5	0.4	0.4	0.2	0.3	0.9	0.6	0.7	0.8	0.8	0.4	0.7	0.4	0.7	0.4	0.6	0.7	0.8	0.7	0.6	0.5	0.9
2-Feb	1.2	1.2	1.2	0.6	0.9	0.6	0.6	0.7	0.7	0.3	0.2	0.3	0.1	0.5	0.3	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.5	1.2
3-Feb	0.1	0.3	0.4	0.2	0.2	0.2	0.1	0.3	0.1	0.1	0.3	0.2	0.1	0.0	0.3	0.2	0.2	0.2	0.0	0.2	0.3	0.6	0.5	0.6	0.2	0.6
4-Feb	0.5	0.9	1.2	0.6	0.3	0.7	0.2	0.4	0.3	0.1	-0.1	0.2	-0.1	-0.2	0.2	0.7	0.5	0.1	0.2	0.0	0.1	0.1	0.3	0.4	0.3	1.2
5-Feb	0.6	0.5	0.0	0.3	0.4	-0.2	0.1	0.2	0.2	0.0	0.0	0.3	0.4	-0.2	0.0	0.0	0.2	0.3	0.0	0.5	0.1	0.1	0.1	0.1	0.2	0.6
6-Feb	0.1	0.1	-0.1	-0.2	-0.2	0.0	-0.1	0.1	0.0	-0.1	0.1	0.6	0.5	0.7	0.8	0.6	0.3	0.3	0.1	-0.1	0.1	0.2	0.2	0.2	0.2	0.8
7-Feb	0.1	0.2	-0.1	0.0	0.1	0.0	0.0	0.5	0.2	0.3	0.1	0.0	0.0	0.1	0.3	0.0	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.5
8-Feb	0.3	0.1	0.1	0.0	-0.2	0.1	-0.3	-0.1	0.1	0.0	0.1	0.0	0.2	0.0	-0.1	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.3
9-Feb	0.1	0.2	0.1	0.3	0.1	0.0	0.1	0.3	0.2	0.2	-0.1	0.0	-0.1	0.1	-0.1	0.0	0.0	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.3
10-Feb	0.1	0.2	0.0	0.1	0.2	0.0	0.1	0.3	0.2	0.2	0.2	0.2	0.0	0.1	0.1	0.1	-0.1	0.2	0.2	0.3	0.2	0.7	0.6	0.4	0.2	0.7
11-Feb	0.3	0.2	0.7	0.5	0.4	0.7	0.8	0.7	0.9	0.6	0.6	0.1	0.5	0.4	0.5	0.1	0.3	-0.1	0.5	0.7	0.7	0.6	0.6	0.8	0.5	0.9
12-Feb	0.9	0.6	0.7	0.7	0.2	-0.1	0.0	0.1	0.1	0.2	-0.2	0.4	0.3	0.6	0.2	0.4	-0.2	0.7	0.1	-0.4	-0.3	-0.1	0.4	0.5	0.3	0.9
13-Feb	0.2	0.3	0.2	0.4	0.3	0.0	0.1	0.5	0.6	0.4	0.3	0.6	0.1	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.0	0.0	0.1	0.2	0.3	0.6
14-Feb	0.5	0.5	0.7	0.7	0.8	0.6	0.5	0.7	0.6	0.6	0.2	0.0	0.4	-0.1	-0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.3	0.8
15-Feb	0.2	0.2	0.3	0.0	0.1	0.1	0.0	-0.1	0.3	0.4	0.4	0.2	-0.1	0.0	-0.1	0.0	0.3	0.3	0.6	0.3	0.0	0.1	0.1	0.0	0.2	0.6
16-Feb	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	-0.2	0.5	0.3	0.1	0.0	-0.2	0.0	0.0	0.2	0.1	0.2	0.0	0.1	0.2	0.3	0.1	0.5
17-Feb	0.3	0.6	0.2	0.4	0.2	0.5	0.3	0.4	0.3	0.3	0.4	0.6	0.3	0.4	0.1	0.1	0.4	0.0	0.4	0.6	0.1	0.2	0.4	0.3	0.3	0.6
18-Feb	0.6	0.5	0.2	0.1	0.4	0.5	0.4	0.2	0.3	0.3	0.3	0.0	0.4	0.1	0.0	0.0	0.2	0.3	0.0	0.1	0.1	0.1	0.1	0.3	0.2	0.6
19-Feb	0.1	0.4	0.6	0.7	0.2	0.1	0.0	-0.3	0.0	-0.1	-0.1	-0.1	0.2	0.3	0.4	0.3	0.5	-0.1	0.4	0.9	-0.2	0.6	0.7	0.7	0.3	0.9
20-Feb	-0.1	0.3	0.3	0.2	0.2	0.3	0.5	0.3	0.3	0.4	0.3	0.3	-0.3	-0.1	0.4	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.5
21-Feb	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.3	-0.1	0.2	0.7	0.4	0.5	0.4	0.5	0.7	0.5	0.6	0.4	0.4	0.3	0.7
22-Feb	0.3	0.3	0.3	0.1	0.0	0.3	-0.1	0.1	0.3	0.1	-0.1	0.1	0.2	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.4	0.3	0.6	0.2	0.6
23-Feb	0.7	0.3	0.3	0.3	0.2	0.2	0.2	0.4	0.1	-0.1	0.0	-0.2	-0.1	-0.5	-0.3	-0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.7
24-Feb	0.1	0.4	0.5	0.5	0.5	0.7	0.9	0.6	0.7	0.5	0.3	0.0	0.2	0.7	0.5	0.6	0.3	0.3	0.5	0.5	0.5	0.5	0.2	0.2	0.4	0.9
25-Feb	0.4	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.6	0.1	0.1	0.0	0.3	0.2	0.2	0.4	0.3	0.3	0.3	0.4	0.2	0.6
26-Feb	0.5	0.3	0.0	0.1	0.1	0.0	0.3	-0.1	0.4	0.3	0.3	0.2	0.0	0.3	0.5	0.1	0.2	0.2	0.0	-0.1	-0.1	-0.2	0.2	0.0	0.1	0.5
27-Feb	0.5	0.4	0.0	0.1	0.2	0.1	0.1	0.1	0.2	0.0	-0.1	-0.3	0.0	0.2	0.3	0.6	-0.1	0.4	0.3	0.3	0.1	0.2	0.2	0.1	0.2	0.6
28-Feb	0.1	0.4	0.6	0.6	0.4	0.2	0.2	0.7	0.2	0.8	0.0	0.1	-0.1	0.0	0.2	0.2	0.4	0.5	0.6	0.7	0.2	0.0	-0.1	0.4	0.3	0.8
	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.3	Diurnal Average	
	1.2	1.2	1.2	0.7	0.9	0.7	0.9	0.7	0.9	0.9	0.6	0.7	0.8	0.8	0.8	0.7	0.5	0.7	0.6	0.9	0.7	0.8	0.7	0.8	Diurnal Maximum	

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 3.9 km/h on Feb 17 13:00

Minimum Value: 0.1 km/h on Feb 18 23:00

Percentiles: P_1 = 0.2 P_{10} = 0.4 Q_1 = 0.7 Median = 1.2 Q_3 = 1.8 P_{90} = 2.4 P_{99} = 3.5

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1.3	1.5	1.1	0.9	0.9	0.9	1.2	1.2	1.7	2.4	2.2	2.3	2.4	2.2	2.1	2.4	2.3	2.0	2.1	2.5	2.2	2.4	2.5	2.4	2.5
2-Feb	2.2	1.9	2.0	1.9	2.1	2.3	1.8	1.8	1.9	1.3	1.3	1.1	1.1	1.6	1.0	0.6	0.5	0.2	0.3	0.3	0.5	0.9	1.0	0.9	2.3
3-Feb	0.9	1.5	1.3	1.1	0.8	0.9	0.8	1.0	1.3	1.0	1.0	1.0	1.0	0.7	1.0	0.7	0.6	0.8	1.1	1.3	1.7	1.9	2.5	2.9	2.9
4-Feb	2.4	2.7	2.3	2.1	1.8	0.9	0.6	1.2	1.5	1.9	2.7	1.9	1.3	1.2	0.8	1.0	1.2	1.6	2.1	2.0	1.8	2.0	2.0	1.7	2.7
5-Feb	1.9	2.2	1.8	2.3	2.5	2.2	2.4	2.1	1.9	2.3	2.0	1.7	1.6	1.4	1.3	1.1	1.2	1.1	0.8	1.2	1.3	0.9	0.7	0.5	2.5
6-Feb	0.9	0.7	0.6	0.6	0.6	0.5	0.7	0.5	0.7	0.9	1.5	1.8	1.9	2.4	2.2	2.0	1.5	1.2	1.0	1.1	1.0	0.7	0.4	0.3	2.4
7-Feb	0.3	0.4	0.4	0.2	1.0	1.8	1.6	1.9	1.8	1.7	1.6	1.5	1.4	1.8	1.6	1.2	1.4	1.4	1.1	1.2	1.2	1.3	1.0	1.1	1.9
8-Feb	1.4	1.1	1.0	1.0	1.0	1.3	0.9	0.8	0.5	0.5	1.3	1.9	1.7	1.5	1.5	1.2	1.3	1.0	0.8	0.6	0.7	0.7	0.7	0.3	1.9
9-Feb	0.2	0.1	0.2	0.3	0.3	0.4	0.6	0.5	0.8	0.9	0.8	1.2	1.1	1.4	1.3	1.5	1.4	1.4	1.5	1.4	1.4	1.2	1.2	1.1	1.5
10-Feb	1.1	1.0	0.9	1.0	0.9	0.7	0.5	0.5	0.4	0.4	0.4	0.4	0.6	0.4	0.6	1.0	0.9	0.8	0.7	0.7	0.7	0.8	1.0	0.9	1.1
11-Feb	0.6	0.5	0.6	0.8	0.7	0.4	0.6	0.5	0.6	0.6	0.8	0.8	0.9	0.6	0.5	0.9	0.6	0.6	0.4	0.5	0.5	0.6	0.7	0.5	0.9
12-Feb	0.6	0.9	1.1	1.6	1.9	1.3	1.0	1.3	1.5	1.2	0.7	1.2	1.0	1.3	1.4	1.3	1.7	1.4	2.1	2.1	2.0	1.7	2.5	2.6	2.6
13-Feb	2.4	2.4	2.3	2.3	2.2	2.6	1.9	1.5	1.5	2.0	1.9	1.6	1.3	1.1	1.0	0.8	0.5	0.8	0.6	0.8	1.2	0.8	0.2	0.2	2.6
14-Feb	0.2	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.7	0.9	0.8	0.5	0.5	0.4	1.2	0.8	0.8	0.2	0.3	0.8	1.5	1.5
15-Feb	1.1	2.0	1.9	1.6	1.8	1.7	1.5	1.4	1.5	1.7	1.7	1.6	1.4	1.5	1.2	1.3	1.1	1.1	1.3	1.6	1.1	1.0	0.6	0.8	2.0
16-Feb	0.6	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.8	1.2	2.2	1.9	1.9	1.8	1.8	1.5	1.7	1.6	1.8	1.8	1.9	2.0	2.2
17-Feb	2.0	2.1	1.9	2.0	1.7	2.7	2.6	2.6	2.6	2.9	3.3	3.9	3.9	3.1	3.1	3.0	3.6	3.0	3.4	2.9	3.2	3.1	3.1	3.4	3.9
18-Feb	3.4	3.3	3.9	3.1	2.9	3.0	3.5	3.3	3.0	2.9	2.9	2.7	2.9	2.4	2.2	2.1	2.0	1.5	1.5	0.6	0.1	0.1	0.1	0.3	3.9
19-Feb	0.6	0.8	0.4	0.5	0.5	0.7	0.7	0.9	1.4	0.8	0.9	1.5	1.5	1.4	1.7	1.6	0.8	0.5	0.8	0.8	1.2	1.0	0.7	0.8	1.7
20-Feb	0.5	0.5	0.7	0.8	0.6	0.5	0.7	0.6	0.6	0.4	0.8	0.7	0.5	0.6	1.1	1.3	1.4	1.0	1.1	1.0	1.7	1.2	1.4	1.2	1.7
21-Feb	1.1	1.0	1.1	1.0	0.8	0.3	0.3	0.3	0.4	0.7	1.3	1.6	1.6	1.8	2.3	2.1	2.0	1.7	1.7	2.3	2.0	2.1	1.8	1.7	2.3
22-Feb	1.4	1.5	1.2	1.5	1.7	1.8	1.6	1.4	1.4	1.5	1.5	1.7	1.6	1.8	1.8	1.4	1.2	0.9	0.8	1.0	1.6	2.0	2.0	1.9	2.0
23-Feb	1.7	1.2	1.5	1.2	1.1	1.2	0.6	0.4	0.3	0.8	1.2	0.8	0.9	1.0	1.0	0.4	0.6	0.5	0.5	0.3	0.2	0.2	0.2	0.2	1.7
24-Feb	0.2	0.2	0.2	0.3	0.2	0.4	0.5	0.6	0.5	0.5	0.6	0.8	1.4	1.6	1.4	1.3	0.9	0.6	0.4	0.5	0.6	0.8	0.8	0.9	1.6
25-Feb	0.7	0.7	0.5	0.4	0.4	0.4	0.4	0.2	0.3	0.5	0.8	1.1	1.5	0.8	0.8	0.9	0.5	0.6	1.1	1.3	1.7	1.8	1.7	1.6	1.8
26-Feb	2.0	1.9	1.9	1.6	1.5	1.5	1.5	1.6	1.7	1.7	2.2	2.6	2.6	3.0	3.3	2.9	3.2	3.3	3.1	3.8	3.7	3.7	3.0	2.7	3.8
27-Feb	3.1	2.7	2.1	2.2	1.9	1.6	1.1	1.1	1.1	1.2	1.7	1.8	1.8	1.8	1.8	1.7	1.2	0.7	0.4	0.3	0.2	0.3	0.2	0.1	3.1
28-Feb	0.2	0.3	0.3	0.5	0.5	0.6	0.6	0.7	0.9	0.8	0.7	1.0	1.1	1.1	1.8	1.8	1.4	1.0	0.8	0.6	0.9	1.0	1.2	1.2	1.8
	3.4	3.3	3.9	3.1	2.9	3.0	3.5	3.3	3.0	2.9	3.3	3.9	3.9	3.1	3.3	3.0	3.6	3.3	3.4	3.8	3.7	3.7	3.1	3.4	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Summary of Hour Averages

Vertical Wind Speed 100m (VW100) - km/h

Lower Camp Met Tower - February 2026

Maximum Value: 3.4 km/h on Feb 2 02:00

Maximum Daily Average: 0.9 km/h on Feb 2

Minimum Value: -0.9 km/h on Feb 10 13:00

Minimum Daily Average: -0.1 km/h on Feb 8

Maximum Diurnal Average: 0.4 km/h at hour 2

Minimum Diurnal Average: 0.0 km/h at hour 21

Monthly Average: 0.13 km/h

Percentiles: P_1 = -0.6 P_{10} = -0.3 Q_1 = -0.1 Median = 0.0 Q_3 = 0.2 P_{90} = 0.6 P_{99} = 2.1

Hours in Service:	672
Hours of Data:	666
Hours of Missing Data:	6
Hours of Calibration:	0
Percent Operational Time:	99.1

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	0.2	-0.2	0.0	0.6	0.4	0.4	0.1	0.1	1.5	0.4	1.5	1.0	1.2	0.3	0.6	0.1	0.7	0.1	0.7	0.0	0.8	1.6	2.2	0.6	2.2
2-Feb	3.4	3.4	2.4	1.8	1.9	1.5	1.4	1.0	1.8	1.1	0.9	0.1	-0.2	0.9	0.4	-0.1	0.1	-0.1	0.0	0.0	-0.1	0.0	0.0	0.1	0.9	3.4
3-Feb	0.0	0.2	0.2	0.1	-0.1	-0.1	-0.2	0.0	-0.4	0.1	0.1	0.1	-0.2	0.0	0.1	0.5	-0.1	-0.1	-0.4	0.1	0.2	1.5	1.4	2.3	0.2	2.3
4-Feb	1.5	3.1	2.4	0.8	0.3	0.0	0.2	0.2	0.5	0.0	0.2	0.2	-0.3	-0.4	-0.1	0.4	0.5	-0.1	0.2	-0.2	-0.1	-0.5	-0.3	0.1	0.4	3.1
5-Feb	0.7	0.4	-0.1	0.4	0.4	-0.4	-0.2	0.1	0.2	-0.1	-0.3	0.0	0.6	-0.5	-0.1	-0.2	0.3	-0.1	-0.2	0.3	0.1	-0.2	0.0	-0.1	0.0	0.7
6-Feb	-0.1	-0.2	-0.1	0.1	-0.1	-0.1	-0.1	-0.2	-0.1	0.0	0.4	0.8	0.2	1.3	2.0	1.8	1.0	0.8	-0.5	-0.4	-0.6	0.1	0.1	0.1	0.3	2.0
7-Feb	0.0	0.0	-0.1	0.0	-0.1	-0.2	-0.2	0.4	0.1	0.0	-0.2	-0.4	-0.3	-0.5	0.0	-0.1	-0.1	0.0	0.0	-0.1	0.2	-0.2	-0.2	-0.1	-0.1	0.4
8-Feb	-0.1	0.0	-0.1	-0.2	-0.2	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.2	-0.1	-0.2	-0.4	0.1	-0.1	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.1
9-Feb	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	-0.2	-0.2	-0.4	0.0	-0.3	-0.1	-0.4	0.1	0.0	-0.1	0.1	-0.1	0.0	0.2	0.0	0.2
10-Feb	0.1	0.0	-0.1	-0.2	0.0	UO	UO	UO	UO	UO	UO	-0.2	-0.9	-0.7	-0.1	0.0	-0.3	0.0	-0.1	0.0	0.3	0.8	0.8	0.6	0.0	0.8
11-Feb	0.6	0.4	0.7	0.6	0.8	0.6	0.4	0.0	0.6	0.0	0.7	0.9	1.5	0.6	0.2	0.1	0.1	-0.2	0.0	-0.1	0.3	0.2	0.2	-0.2	0.4	1.5
12-Feb	-0.2	-0.2	-0.2	1.3	-0.4	-0.2	-0.4	-0.1	0.5	0.0	0.3	1.2	0.3	1.0	0.4	-0.2	-0.5	0.0	-0.6	-0.2	-0.2	0.2	0.2	0.2	0.1	1.3
13-Feb	0.3	0.4	0.1	0.3	0.2	0.0	0.2	0.6	0.9	1.1	0.4	0.9	0.1	0.2	0.1	0.1	0.0	0.3	0.4	0.1	0.1	-0.1	-0.1	0.0	0.3	1.1
14-Feb	0.0	0.0	-0.2	0.2	0.0	-0.1	0.1	0.0	-0.2	-0.1	0.1	0.0	0.1	-0.4	0.0	0.1	0.2	-0.1	0.0	0.2	-0.1	-0.1	-0.1	-0.1	0.0	0.2
15-Feb	0.1	0.5	0.2	-0.2	0.0	-0.1	-0.2	-0.3	-0.1	0.0	0.5	-0.3	-0.3	-0.3	-0.7	0.3	0.6	0.6	1.3	0.8	-0.4	-0.2	0.0	-0.3	0.1	1.3
16-Feb	0.0	0.2	0.1	0.0	0.1	0.1	0.1	0.1	0.0	-0.3	-0.2	-0.3	-0.2	0.2	-0.3	-0.5	-0.3	0.1	0.0	0.1	-0.2	-0.1	-0.1	0.1	-0.1	0.2
17-Feb	0.1	0.5	0.1	0.1	0.0	0.4	0.3	0.4	0.3	-0.3	0.1	-0.1	-0.2	0.2	0.0	-0.1	0.1	-0.3	0.0	0.3	-0.4	-0.1	0.2	0.3	0.1	0.5
18-Feb	0.4	0.0	0.1	-0.2	0.1	0.4	-0.2	-0.3	0.2	0.3	0.1	-0.5	0.1	-0.2	-0.2	-0.5	-0.1	0.2	-0.2	0.0	-0.1	0.0	0.0	0.0	0.0	0.4
19-Feb	0.2	0.3	0.0	-0.2	-0.2	-0.3	0.1	0.3	0.1	-0.1	0.1	-0.1	0.5	0.4	0.4	0.7	-0.1	-0.3	0.0	1.1	-0.1	0.2	0.4	0.6	0.2	1.1
20-Feb	-0.4	-0.1	0.1	0.0	0.1	-0.2	0.0	-0.2	0.1	-0.1	0.3	0.1	-0.2	-0.5	0.1	-0.2	-0.1	0.1	0.0	0.0	0.0	0.1	-0.2	0.0	-0.1	0.3
21-Feb	0.0	-0.2	-0.2	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.2	0.3	-0.3	0.2	1.0	0.2	0.4	0.1	0.5	0.3	0.2	0.6	0.1	0.2	0.1	1.0
22-Feb	0.0	0.2	0.2	0.0	-0.1	0.1	-0.1	-0.1	0.0	-0.2	-0.1	0.3	0.3	0.2	-0.2	0.1	-0.1	0.1	0.0	0.1	0.4	0.5	0.1	0.6	0.1	0.6
23-Feb	1.3	0.7	1.2	0.3	0.4	0.1	0.1	0.2	0.0	-0.1	-0.2	-0.3	-0.1	-0.4	-0.2	-0.1	0.0	0.0	0.3	0.1	0.1	0.0	-0.1	-0.1	0.1	1.3
24-Feb	0.0	-0.1	0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.3	-0.2	-0.1	-0.3	-0.2	0.2	0.2	0.5	0.5	0.2	0.5	0.7	0.6	0.4	0.4	0.2	0.1	0.7
25-Feb	0.2	0.1	0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.1	-0.2	0.0	0.5	0.0	0.0	0.0	0.1	0.0	-0.1	0.3	0.1	0.0	-0.1	0.3	0.0	0.5
26-Feb	0.4	0.5	-0.3	0.1	-0.2	-0.2	0.2	-0.1	0.3	0.0	0.2	0.2	-0.2	0.0	0.1	0.1	0.1	0.0	-0.4	-0.3	-0.5	-0.5	-0.2	0.0	0.0	0.5
27-Feb	0.3	0.3	-0.4	-0.4	0.0	-0.3	-0.3	0.1	-0.1	-0.1	-0.5	-0.7	0.4	0.5	0.5	0.8	-0.1	0.3	0.1	0.3	0.1	0.1	0.0	-0.1	0.0	0.8
28-Feb	0.0	-0.1	0.0	0.2	0.0	0.1	-0.1	0.9	-0.2	1.2	-0.4	0.0	1.1	0.5	0.2	0.2	0.4	0.5	0.1	1.0	-0.4	-0.8	-0.2	0.5	0.2	1.2
	0.3	0.4	0.2	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.3	Diurnal Average	
	3.4	3.4	2.4	1.8	1.9	1.5	1.4	1.0	1.8	1.5	0.9	1.5	1.5	1.3	2.0	1.8	1.0	0.8	1.3	1.1	0.6	1.5	1.6	2.3	Diurnal Maximum	

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Vertical Wind Speed 100m (VW100) - km/h

Lower Camp Met Tower - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 4.4 km/h on Feb 17 13:00

Minimum Value: 0.1 km/h on Feb 18 22:00

Percentiles: P_1 = 0.2 P_{10} = 0.4 Q_1 = 0.7 Median = 1.2 Q_3 = 1.8 P_{90} = 2.4 P_{99} = 3.9

Hours in Service:	672
Hours of Data:	666
Hours of Missing Data:	6
Hours of Calibration:	0
Percent Operational Time:	99.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1.1	1.4	1.1	1.1	0.7	1.2	1.3	1.4	1.7	2.0	1.6	2.1	2.0	2.1	1.9	2.0	2.2	2.2	2.1	2.2	1.8	1.8	1.9	2.0	2.2
2-Feb	2.2	2.1	2.0	1.7	2.0	1.8	1.0	1.3	1.1	1.6	1.5	1.3	1.2	1.6	1.1	0.8	0.5	0.2	0.2	0.3	0.4	1.1	1.1	1.0	2.2
3-Feb	1.0	1.5	1.5	1.2	0.9	0.9	1.0	1.2	1.4	1.0	0.9	0.9	0.8	0.8	1.1	1.1	0.9	1.2	1.5	1.7	2.0	2.3	2.5	3.1	3.1
4-Feb	2.8	2.7	3.1	3.2	2.2	1.1	0.7	1.2	1.2	1.5	2.3	1.8	1.8	1.7	0.9	0.8	1.1	2.0	2.1	2.2	1.8	2.0	1.9	1.9	3.2
5-Feb	1.9	2.7	1.9	2.8	2.7	2.0	2.0	1.8	2.2	2.4	2.4	1.8	2.1	1.3	1.5	1.3	1.4	1.3	0.8	1.2	1.4	0.9	0.6	0.4	2.8
6-Feb	0.5	0.4	0.6	0.9	0.7	0.4	0.6	0.5	0.5	1.4	2.2	2.3	1.9	2.1	1.9	1.8	1.8	1.4	1.1	1.5	1.6	1.2	0.6	0.4	2.3
7-Feb	0.3	0.3	0.4	0.2	1.1	2.1	1.6	2.1	1.8	2.0	1.6	1.6	1.5	1.9	1.6	1.2	1.2	1.5	1.1	1.1	1.2	1.1	0.9	0.9	2.1
8-Feb	1.0	0.8	0.7	0.8	0.8	1.0	0.6	0.4	0.2	0.4	1.1	1.7	1.7	1.4	1.4	1.2	1.3	0.9	0.7	0.5	0.6	0.8	0.9	0.5	1.7
9-Feb	0.4	0.1	0.1	0.3	0.3	0.5	0.6	0.6	0.9	0.9	0.8	1.1	1.1	1.3	1.2	1.2	1.3	1.4	1.2	1.3	1.4	1.1	1.0	1.0	1.4
10-Feb	1.0	0.8	0.8	0.7	0.7	UO	UO	UO	UO	UO	UO	0.4	0.6	0.8	1.1	1.4	1.3	1.5	1.2	0.8	1.2	0.8	0.8	0.8	1.5
11-Feb	0.8	1.1	0.9	1.3	1.0	0.7	0.7	0.8	1.0	0.8	0.8	1.0	1.3	0.7	0.7	0.8	0.6	0.4	0.7	0.8	0.8	0.8	0.9	0.4	1.3
12-Feb	0.7	1.3	1.3	1.4	2.8	1.3	1.5	1.6	1.2	1.4	1.0	0.7	1.2	1.5	1.3	1.0	1.4	0.8	1.4	1.5	2.4	2.3	2.5	2.2	2.8
13-Feb	2.3	2.3	1.7	1.6	1.3	1.3	1.0	1.0	1.3	1.3	1.1	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.4	1.0	0.9	0.3	0.1	2.3
14-Feb	0.2	0.4	0.5	0.5	0.8	0.8	0.8	0.6	0.5	0.5	0.3	0.4	0.9	0.6	0.4	0.5	0.6	0.5	0.5	0.4	0.4	0.3	0.6	1.2	1.2
15-Feb	0.9	2.2	2.0	1.8	2.1	2.1	1.6	1.3	1.7	1.8	1.8	1.5	1.3	1.6	1.2	1.5	1.2	1.3	1.6	2.2	1.5	1.8	0.9	1.0	2.2
16-Feb	0.6	0.5	0.3	0.4	0.2	0.2	0.2	0.1	0.2	0.2	0.5	1.1	2.2	2.3	2.0	1.8	1.9	1.9	1.8	1.5	1.8	1.6	1.9	2.1	2.3
17-Feb	2.2	2.5	2.1	2.8	2.1	3.1	3.0	2.8	2.7	3.4	3.9	4.4	4.4	3.1	3.5	3.2	3.7	3.3	3.4	3.2	3.6	3.1	3.7	3.9	4.4
18-Feb	4.0	3.9	4.0	3.5	3.1	3.3	3.9	3.6	3.6	3.2	2.9	2.8	3.1	2.3	2.1	1.9	1.9	1.5	1.2	0.4	0.2	0.1	0.1	0.2	4.0
19-Feb	0.8	1.2	0.6	0.4	0.4	0.7	0.9	0.8	0.9	0.8	0.7	1.2	1.3	1.5	2.1	1.7	0.7	0.4	0.2	0.8	1.5	1.7	1.3	0.9	2.1
20-Feb	0.5	0.6	0.7	0.8	0.7	0.5	0.5	0.4	0.6	0.5	0.7	0.5	0.5	0.6	1.4	1.2	1.3	0.9	1.1	1.4	1.8	0.8	1.2	1.0	1.8
21-Feb	1.3	1.0	1.1	1.1	0.6	0.5	0.5	0.5	0.4	0.7	1.2	1.8	2.0	2.1	2.7	2.5	2.4	1.9	2.0	2.5	2.3	2.2	1.9	1.6	2.7
22-Feb	1.7	1.5	1.2	1.4	1.5	1.4	1.4	1.0	1.1	1.1	1.6	1.7	1.8	1.9	1.6	1.3	0.8	0.5	0.6	1.4	2.2	1.8	1.9	1.5	2.2
23-Feb	1.4	1.2	1.5	1.3	1.5	1.3	0.7	0.5	0.3	1.0	1.2	0.8	1.2	0.8	0.8	0.5	0.4	0.6	0.8	0.4	0.3	0.3	0.3	0.3	1.5
24-Feb	0.2	0.2	0.2	0.2	0.3	0.6	0.6	0.9	0.7	0.6	0.6	0.7	0.7	0.9	1.1	1.1	0.8	0.6	0.6	0.9	0.8	0.8	0.8	0.9	1.1
25-Feb	1.0	1.1	0.9	0.4	0.3	0.3	0.4	0.2	0.3	0.6	0.8	1.3	1.3	0.7	0.8	0.7	0.4	0.5	0.6	1.3	1.7	1.7	1.8	1.7	1.8
26-Feb	2.0	1.9	1.4	1.2	1.1	1.4	1.3	1.3	1.6	1.5	2.0	2.5	2.8	3.2	3.7	3.4	3.2	3.5	2.8	3.6	3.4	3.5	2.9	2.7	3.7
27-Feb	3.1	2.9	2.3	2.6	2.2	2.0	1.1	1.3	1.4	1.3	1.7	2.4	2.4	2.3	2.1	1.9	1.5	0.6	0.3	0.4	0.3	0.3	0.2	0.2	3.1
28-Feb	0.2	0.2	0.3	0.5	0.6	0.7	0.8	0.9	0.9	1.1	0.7	1.0	1.4	1.7	1.9	1.9	1.5	1.2	0.8	0.9	1.0	1.0	1.3	1.3	1.9
	4.0	3.9	4.0	3.5	3.1	3.3	3.9	3.6	3.6	3.4	3.9	4.4	4.4	3.2	3.7	3.4	3.7	3.5	3.4	3.6	3.6	3.5	3.7	3.9	
	Diurnal Maximum																								

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Vertical Wind Speed 163m (VW163) - km/h

Lower Camp Met Tower - February 2026

Maximum Value: 4.3 km/h on Feb 2 01:00

Maximum Daily Average: 1.7 km/h on Feb 13

Minimum Value: -0.9 km/h on Feb 18 02:00

Minimum Daily Average: -0.2 km/h on Feb 17

Maximum Diurnal Average: 0.6 km/h at hour 10

Minimum Diurnal Average: 0.1 km/h at hour 21

Monthly Average: 0.40 km/h

Percentiles: P_1 = -0.7 P_{10} = -0.2 Q_1 = 0.0 Median = 0.2 Q_3 = 0.6 P_{90} = 1.3 P_{99} = 2.9

Hours in Service:	672
Hours of Data:	657
Hours of Missing Data:	15
Hours of Calibration:	0
Percent Operational Time:	97.8

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	0.0	-0.1	0.0	0.4	0.5	0.8	0.1	0.1	1.9	0.2	2.3	1.2	1.7	-0.2	0.4	-0.5	0.4	-0.4	0.9	-0.1	1.3	2.4	3.4	0.7	3.4
2-Feb	4.3	3.7	2.8	2.2	2.4	1.8	1.9	1.4	1.7	2.2	1.7	-0.1	0.0	1.4	0.7	0.0	0.2	0.2	0.1	0.1	0.0	0.2	0.1	0.3	1.2	4.3
3-Feb	0.0	0.3	0.2	0.2	0.0	0.0	-0.2	0.1	-0.5	0.1	0.0	0.1	-0.1	0.0	0.4	1.1	0.9	0.5	0.5	1.1	1.0	2.6	2.6	3.7	0.6	3.7
4-Feb	2.3	UO	UO	1.1	0.6	0.4	1.7	2.6	2.5	2.1	2.7	2.2	0.5	0.6	1.3	1.5	1.9	0.6	0.2	-0.4	0.0	-0.5	-0.6	0.0	1.0	2.7
5-Feb	0.5	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	-0.2	-0.1	0.2	-0.1	0.0	0.4	0.3	-0.1	0.1	-0.1	--	0.5
6-Feb	0.0	-0.1	0.7	0.8	0.5	0.3	0.4	0.4	0.6	1.0	1.4	1.1	-0.1	1.2	2.8	2.9	2.0	1.4	-0.2	-0.2	-0.8	0.7	0.3	0.3	0.7	2.9
7-Feb	0.3	0.2	-0.1	0.0	0.2	-0.1	0.0	0.5	0.1	0.1	0.1	-0.2	-0.2	-0.6	0.0	0.0	-0.1	0.1	0.0	0.0	0.3	0.0	0.0	0.2	0.0	0.5
8-Feb	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	-0.1	0.0	-0.1	-0.2	0.3	-0.1	-0.1	0.3	0.1	-0.1	0.2	0.1	-0.1	0.1	0.3
9-Feb	0.1	0.1	0.1	0.2	0.1	0.1	-0.1	0.0	0.1	0.4	-0.1	-0.1	-0.4	0.3	-0.3	-0.1	-0.5	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.4
10-Feb	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.2	0.6	0.3	0.0	0.3	0.4	0.3	0.6	0.4	0.8	0.3	0.2	0.8	0.8	0.6	0.3	0.4	0.8
11-Feb	0.2	0.3	0.3	0.4	0.6	0.2	0.2	0.3	0.5	0.3	0.5	0.9	0.9	0.8	1.0	1.1	1.0	0.9	1.1	0.7	0.6	0.5	0.4	0.4	0.6	1.1
12-Feb	0.8	0.9	0.6	3.2	0.6	1.4	1.1	1.3	1.9	1.3	0.3	0.9	0.6	1.4	1.4	0.5	0.6	0.8	1.0	1.8	1.1	1.5	2.1	2.2	1.2	3.2
13-Feb	2.2	2.4	2.1	2.2	2.4	2.8	1.8	2.2	2.6	3.3	2.8	2.6	1.2	1.1	1.1	1.0	0.9	1.0	0.9	1.1	1.4	0.5	0.5	0.2	1.7	3.3
14-Feb	0.4	0.5	0.6	0.4	0.5	0.4	0.9	0.6	0.6	0.5	0.1	0.2	0.3	-0.1	0.2	0.1	0.2	0.1	0.1	0.3	0.1	0.2	0.2	-0.2	0.3	0.9
15-Feb	0.1	0.5	0.1	-0.1	-0.1	-0.2	-0.3	-0.4	-0.2	0.0	0.4	-0.4	-0.2	-0.2	-0.7	0.6	1.0	0.8	1.7	0.9	-0.7	0.0	0.1	0.0	0.1	1.7
16-Feb	0.1	0.4	0.1	0.1	0.1	0.2	0.3	0.1	-0.2	0.0	0.0	0.0	0.1	0.6	-0.1	-0.4	-0.4	0.2	0.0	0.2	-0.2	-0.2	-0.2	-0.2	0.0	0.6
17-Feb	-0.2	0.4	-0.1	-0.3	-0.1	0.2	-0.3	0.4	0.0	-0.5	-0.4	-0.7	-0.7	0.6	-0.2	-0.8	-0.3	-0.4	-0.6	0.0	-0.7	-0.5	-0.2	0.3	-0.2	0.6
18-Feb	0.1	-0.9	0.0	-0.6	-0.1	0.1	-0.7	-0.7	-0.3	0.2	0.0	-0.8	-0.1	-0.4	-0.4	-0.7	0.1	0.2	0.1	0.1	0.0	0.0	0.1	0.2	-0.2	0.2
19-Feb	0.7	1.1	0.4	0.3	0.2	0.1	0.8	0.4	0.8	0.5	0.6	0.4	0.5	0.5	0.4	1.0	0.5	0.5	1.0	1.6	-0.2	0.6	0.5	0.8	0.6	1.6
20-Feb	0.2	0.3	0.4	0.2	0.3	0.3	0.5	0.2	0.7	0.1	0.8	0.5	0.0	-0.1	0.1	-0.1	0.1	0.1	0.0	0.1	-0.1	0.1	-0.1	-0.1	0.2	0.8
21-Feb	-0.1	-0.3	-0.1	0.0	-0.1	-0.5	-0.2	-0.5	0.1	0.0	0.0	0.6	-0.2	0.2	0.8	0.0	-0.2	0.1	0.7	0.0	0.2	0.5	0.1	0.1	0.0	0.8
22-Feb	0.1	0.2	0.4	-0.1	-0.1	0.1	0.0	0.1	0.3	-0.1	0.1	0.3	0.2	0.0	0.1	0.3	-0.3	0.1	0.0	0.3	0.2	0.1	-0.4	0.5	0.1	0.5
23-Feb	1.6	1.3	2.0	0.8	1.0	0.6	0.1	0.3	0.2	0.3	0.4	0.0	0.1	-0.2	0.0	0.0	0.2	0.1	0.9	0.2	0.2	0.4	0.4	0.1	0.5	2.0
24-Feb	0.2	0.2	0.5	0.7	0.5	0.5	1.0	1.0	0.7	0.3	0.1	0.2	-0.1	0.1	0.0	0.4	0.8	0.3	0.6	0.9	0.9	1.0	0.8	0.5	0.5	1.0
25-Feb	0.7	0.1	-0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.4	0.1	0.3	0.3	0.4	0.2	0.3	0.0	0.1	0.1	0.4	0.1	0.0	-0.1	0.3	0.2	0.7
26-Feb	0.5	0.6	-0.4	0.2	-0.2	-0.1	0.0	0.0	0.4	0.1	0.2	0.0	-0.5	-0.4	-0.4	0.1	0.0	0.1	-0.2	-0.1	-0.5	-0.4	-0.3	0.1	-0.1	0.6
27-Feb	-0.2	0.4	-0.7	-0.6	0.0	-0.4	0.1	0.1	0.0	0.2	-0.5	-0.9	0.7	0.9	0.6	1.0	0.1	0.3	0.2	0.4	0.2	-0.1	-0.2	0.1	0.1	1.0
28-Feb	0.2	0.2	0.1	0.2	0.6	0.4	1.1	2.1	1.0	1.9	-0.3	1.0	1.9	1.2	0.7	-0.2	0.0	0.5	0.3	1.2	-0.1	-0.3	-0.1	0.3	0.6	2.1
	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.4	0.4	0.2	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.1	0.3	0.3	0.5	Diurnal Average	
	4.3	3.7	2.8	3.2	2.4	2.8	1.9	2.6	2.6	3.3	2.8	2.6	1.9	1.7	2.8	2.9	2.0	1.4	1.7	1.8	1.4	2.6	2.6	3.7	Diurnal Maximum	

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Vertical Wind Speed 163m (VW163) - km/h

Lower Camp Met Tower - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 4.4 km/h on Feb 18 01:00

Minimum Value: 0.1 km/h on Feb 18 23:00

Percentiles: P_1 = 0.2 P_{10} = 0.4 Q_1 = 0.7 Median = 1.1 Q_3 = 1.7 P_{90} = 2.5 P_{99} = 4.0

Hours in Service:	672
Hours of Data:	657
Hours of Missing Data:	15
Hours of Calibration:	0
Percent Operational Time:	97.8

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	0.8	1.2	0.9	0.8	0.7	1.4	1.3	1.4	1.5	2.1	1.9	2.1	2.2	2.2	1.7	2.1	1.9	2.1	2.0	2.6	2.1	2.1	2.2	2.0	2.6
2-Feb	2.0	2.3	2.3	2.0	2.2	2.2	1.5	1.6	1.6	2.1	1.8	1.6	1.4	1.6	1.1	0.7	0.6	0.3	0.2	0.5	0.3	1.2	1.3	1.2	2.3
3-Feb	1.2	1.1	1.4	1.2	1.0	0.7	0.9	1.1	1.1	1.0	0.9	0.8	0.6	0.6	1.3	1.5	1.0	1.5	2.0	2.0	2.4	2.7	2.7	3.7	3.7
4-Feb	3.4	UO	UO	2.8	1.8	0.9	1.3	1.3	1.2	1.4	1.7	2.1	2.0	1.9	1.3	1.1	1.5	2.1	2.4	2.3	1.9	1.9	1.7	1.8	3.4
5-Feb	2.0	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	1.6	1.3	1.2	1.2	0.7	1.0	1.4	0.9	0.5	0.5	2.0
6-Feb	0.4	0.6	0.9	1.4	1.2	0.7	0.9	0.8	1.0	2.0	2.3	2.4	1.9	2.2	1.9	1.7	1.6	1.3	1.3	1.5	1.7	1.3	0.9	0.6	2.4
7-Feb	0.5	0.3	0.4	0.3	0.9	2.3	1.6	2.0	1.8	1.8	1.7	1.5	1.3	1.6	1.4	1.3	1.1	1.3	1.0	1.2	1.1	1.0	0.8	0.6	2.3
8-Feb	0.6	0.7	0.5	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.8	1.0	1.5	1.5	1.2	1.3	1.3	1.0	0.8	0.6	0.5	0.8	0.8	0.6	1.5
9-Feb	0.5	0.3	0.2	0.2	0.3	0.5	0.5	0.6	1.0	1.0	0.8	1.0	1.2	1.5	1.3	1.2	1.3	1.4	1.3	1.4	1.5	1.3	0.8	1.0	1.5
10-Feb	1.0	0.8	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.7	1.1	1.3	1.4	1.5	1.3	1.6	1.1	1.4	1.3	1.3	0.8	1.6
11-Feb	1.0	1.5	1.4	1.7	0.9	0.5	0.8	0.9	1.1	0.9	1.0	1.0	1.4	0.8	1.0	0.9	1.0	0.4	0.9	1.1	0.8	0.8	0.9	0.6	1.7
12-Feb	0.8	1.4	1.4	1.4	2.8	1.2	1.3	1.3	1.1	1.6	1.2	0.9	0.9	1.2	1.4	0.6	1.6	0.8	1.2	2.1	2.6	2.5	2.6	2.2	2.8
13-Feb	2.3	2.3	1.8	1.6	1.6	1.5	1.2	1.1	1.3	1.1	1.2	0.9	0.9	0.8	0.8	0.9	0.8	0.8	0.7	0.4	1.0	0.8	0.5	0.3	2.3
14-Feb	0.7	0.7	1.0	0.8	0.9	0.9	1.0	0.9	0.7	0.4	0.3	0.4	0.6	0.6	0.4	0.5	0.9	0.5	0.4	0.5	0.3	0.6	0.6	1.0	1.0
15-Feb	0.9	2.3	2.1	1.8	2.2	2.0	1.6	1.2	1.6	1.7	2.0	1.6	1.5	1.5	1.0	1.6	1.3	1.0	0.7	1.0	1.1	1.6	0.9	1.1	2.3
16-Feb	0.7	0.5	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.8	1.9	2.2	1.7	1.8	1.9	2.0	2.3	1.6	1.9	1.8	2.2	2.1	2.3
17-Feb	2.3	2.7	2.4	3.1	2.3	3.2	3.3	3.0	2.8	3.4	4.0	4.2	4.3	3.4	3.7	3.2	4.0	3.7	3.5	3.6	3.9	3.5	3.7	4.2	4.3
18-Feb	4.4	3.9	4.0	3.7	3.5	3.9	4.0	3.6	3.6	3.5	3.4	3.0	3.5	2.5	2.4	1.8	1.8	1.4	0.9	0.4	0.4	0.2	0.1	0.3	4.4
19-Feb	0.6	0.9	0.4	0.5	0.4	0.9	1.4	1.2	1.1	0.9	0.6	1.1	1.5	1.4	1.9	1.3	0.6	0.4	0.3	0.4	1.7	1.8	1.3	1.0	1.9
20-Feb	0.6	0.7	0.7	0.9	0.5	0.5	0.5	0.5	0.6	0.4	0.8	0.5	0.4	0.5	1.1	0.8	1.1	1.1	1.2	1.5	1.6	1.0	0.9	0.9	1.6
21-Feb	1.1	1.1	0.9	1.1	0.7	0.6	0.7	0.9	0.8	0.9	1.1	1.5	1.8	2.2	3.2	2.5	2.2	1.8	1.9	2.2	2.1	2.6	2.1	1.8	3.2
22-Feb	1.6	1.9	1.5	1.4	1.5	1.1	1.2	1.0	0.9	0.8	1.1	1.2	1.2	1.4	0.9	0.7	0.7	0.5	0.6	2.0	1.8	1.5	1.7	1.5	2.0
23-Feb	1.3	1.1	1.4	1.5	1.9	1.3	0.7	0.4	0.3	0.9	1.0	0.8	1.3	1.2	0.8	0.4	0.4	0.5	1.3	0.7	0.5	0.4	0.4	0.3	1.9
24-Feb	0.1	0.2	0.3	0.4	0.4	0.9	0.3	0.6	0.7	0.7	0.6	0.7	0.8	0.9	1.0	0.8	0.9	0.7	0.7	1.2	1.2	0.8	0.8	0.7	1.2
25-Feb	0.9	0.9	0.7	0.7	0.5	0.4	0.4	0.3	0.6	0.8	0.8	1.1	1.1	0.7	0.6	0.7	0.4	0.4	0.7	1.5	1.8	1.7	1.7	1.6	1.8
26-Feb	2.0	2.1	1.5	1.3	0.8	1.2	1.4	1.3	1.6	1.6	2.1	2.8	3.1	3.5	4.2	3.6	3.4	3.8	2.7	3.7	3.4	3.0	3.0	2.8	4.2
27-Feb	3.1	3.1	2.5	2.6	2.3	1.8	1.5	1.6	1.7	1.5	1.7	2.6	2.8	2.6	2.5	2.0	1.6	0.6	0.3	0.3	0.2	0.2	0.2	0.2	3.1
28-Feb	0.2	0.2	0.1	0.3	0.6	0.7	0.9	1.1	1.1	0.8	1.1	1.2	1.1	1.0	1.1	1.4	1.0	1.0	0.4	0.7	0.6	0.6	0.7	1.1	1.4
	4.4	3.9	4.0	3.7	3.5	3.9	4.0	3.6	3.6	3.5	4.0	4.2	4.3	3.5	4.2	3.6	4.0	3.8	3.5	3.7	3.9	3.5	3.7	4.2	
	Diurnal Maximum																								

UO - Unstable Operation

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS04
BUFFALO VIEWPOINT
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BUFFALO VIEWPOINT (AMS04)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	638	32	34	99.7	14.1	0	1.8	0
H2S (ppb) Average	637	33	35	99.7	5.8	0	1.3	0
THC (ppm) Average	637	32	35	99.55	3.7	-	2.5	-
NMHC(ppm) Average	637	32	35	99.55	0.258	-	0.034	-
CH4(ppm) Average	637	32	35	99.55	3.7	-	2.5	-
O3(ppb) Average	639	31	33	99.7	47.2	0	40.8	-
NO2(ppb) Average	616	37	56	97.17	51.2	0	21.8	-
NO(ppb) Average	616	37	56	97.17	96	-	19.2	-
NOX(ppb) Average	616	37	56	97.17	147.2	-	40.9	-
PM2.5(ug/m3) Average	669	1	3	99.7	15.4	0	6.9	0
Temperature (C) Average	671	0	1	99.85	10.1	-	2.5	-
Relative Humidity (%) Average	671	0	1	99.85	93.5	-	85.1	-
Wind Speed 10 m (km/h) Average	670	0	2	99.7	29	-	22	-
Wind Direction 10 m (deg) Average	670	0	2	99.7	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BUFFALO VIEWPOINT (AMS04)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	638	0.24	0.9	-	0	0	0	0.1	0.2	0.5	14.1
H2S (ppb) Average	637	0.29	0.5	-	0	0.1	0.1	0.1	0.2	0.6	5.8
THC (ppm) Average	637	2.18	0.2	-	2	2.1	2.1	2.1	2.2	2.3	3.7
NMHC(ppm) Average	637	0.005	0.024	-	0	0	0	0	0	0	0.258
CH4(ppm) Average	637	2.17	0.2	-	2	2.1	2.1	2.1	2.2	2.3	3.7
O3(ppb) Average	639	20.86	11.5	-	0	3.1	11.6	23.3	28.7	33.3	47.2
NO2(ppb) Average	616	8.78	9.2	-	0.3	1	2.3	5.7	10.9	22.9	51.2
NO(ppb) Average	616	4.35	11	-	0	0	0.1	0.4	3.1	11.9	96
NOX(ppb) Average	616	13.13	18.4	-	0.3	1.3	2.8	7	14.8	31.7	147.2
PM2.5(ug/m3) Average	669	3.65	2	-	0.6	1.9	2.5	3.1	4.3	6.1	15.4
Temperature 2 m (C) Average	671	-14.99	10	-	-39.2	-27.9	-22.5	-14.7	-8.6	-1.2	10.1
Relative Humidity (%) Average	671	74.51	10.8	-	34.2	60.3	67.9	76.1	82.8	86.6	93.5
Wind Speed 10 m (km/h) Average	670	9.1	6	-	1	4	5	7	11	17	29
Wind Direction 10 m (deg) Average	670	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BUFFALO VIEWPOINT (AMS04)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
ALL PARAMETERS (except NO2)	05 Feb 2026 12:00	05 Feb 2026 12:00	1-2	DAS Failure - data not recorded
NO2	05 Feb 2026 15:00	06 Feb 2026 09:00	19	Maintenance - replace analyzer
THC/NMHC/CH4	06 Feb 2026 08:00	06 Feb 2026 08:00	1	Maintenance - replaced support gas cylinder

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Buffalo Viewpoint - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 14.1 ppb on Feb 20 15:00 Maximum Daily Average: 1.8 ppb on Feb 20

Minimum Value: 0.0 ppb on Feb 4 19:00 Minimum Daily Average: 0.0 ppb on Feb 9
Maximum Diurnal Average: 0.9 ppb at hour 16 Minimum Diurnal Average: 0.1 ppb at hour 4
Monthly Average: 0.24 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.2 P_{90} = 0.5 P_{99} = 2.4

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	32
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.3	0.2	0.2	0.4	1.7	1.4	1.8	0.7	0.5	0.6	0.5	0.5	0.5	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1.8
2-Feb	0.1	Z	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.3	0.4
3-Feb	0.2	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8	0.7	0.4	0.3	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.8
4-Feb	0.3	0.2	0.2	Z	0.4	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
5-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	DF	DF	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
6-Feb	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2
7-Feb	0.2	0.3	Z	0.1	0.0	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
8-Feb	0.0	0.0	0.0	Z	0.1	0.1	0.3	0.4	0.7	0.4	0.3	0.5	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
9-Feb	0.0	0.0	0.1	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
10-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
11-Feb	Z	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
12-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
13-Feb	0.1	0.3	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
14-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	1.5	1.6	1.9	0.6	0.7	0.9	1.4	0.9	0.9	0.6	0.1	0.5	1.9
15-Feb	0.1	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
16-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.2	0.2	0.1	0.7	0.9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9
17-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.1
19-Feb	0.1	0.1	Z	0.1	0.1	0.2	0.7	0.7	0.7	0.7	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7
20-Feb	0.0	0.0	0.0	Z	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.6	14.1	12.7	7.2	1.2	0.3	0.3	0.6	0.6	0.9	0.9	1.8	14.1
21-Feb	0.9	0.6	0.5	0.7	Z	0.8	0.8	0.6	0.4	0.4	0.4	0.3	0.7	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9
22-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3
23-Feb	Z	0.1	0.1	0.0	0.0	0.1	0.0	C	C	C	C	0.1	0.0	0.3	1.1	4.3	2.7	0.4	0.1	0.1	0.1	0.0	0.4	0.5	0.5	4.3
24-Feb	0.3	Z	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3
25-Feb	0.1	0.2	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.2	2.8	2.8	1.7	0.7	0.4	0.4	0.5	2.8
26-Feb	0.4	0.3	0.3	Z	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
27-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.5	0.0	1.9	1.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.2	1.9
28-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.7	1.1	1.2	0.7	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.3	0.3	0.2	0.3	0.4	1.2
	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.8	0.9	0.5	0.2	0.2	0.2	0.2	0.1	0.1	0.1	Diurnal Average	
	0.9	0.6	0.5	0.7	0.4	1.7	1.4	1.8	1.2	0.7	0.8	0.7	0.7	1.5	14.1	12.7	7.2	1.2	2.8	2.8	1.7	0.9	0.9	0.9	Diurnal Maximum	

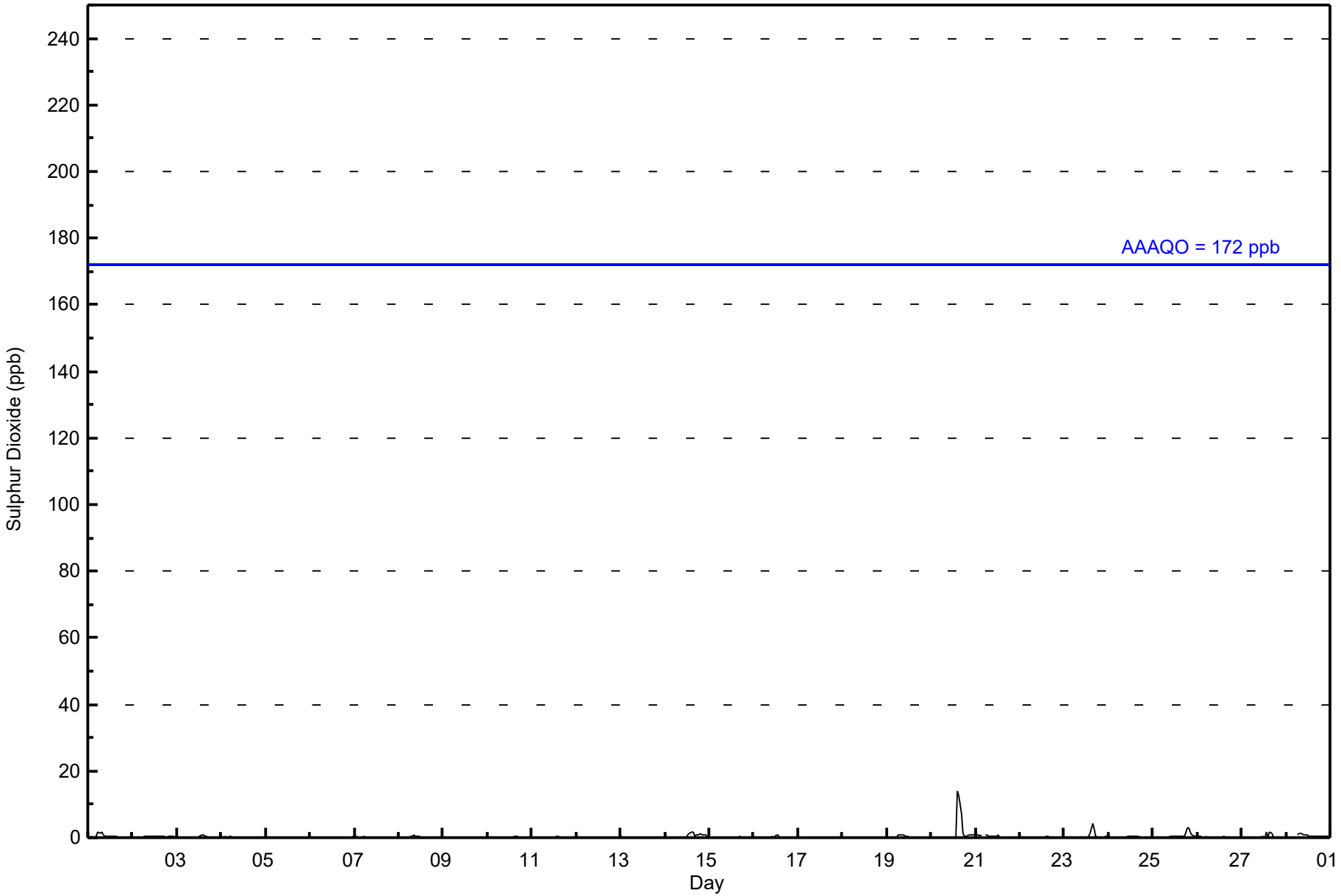
Z - zerospan C - Calibration DF - DAS Failure
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Buffalo Viewpoint - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Buffalo Viewpoint - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	636	99.69	99.69
11 - 20	2	0.31	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Buffalo Viewpoint - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	220	76	14	6	8	22	64	98	41	7	10	24	10	7	14	15	636
11 - 20	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	220	77	14	6	8	22	64	98	41	7	10	24	10	7	15	15	638

Total Number of Valid Hours: 638

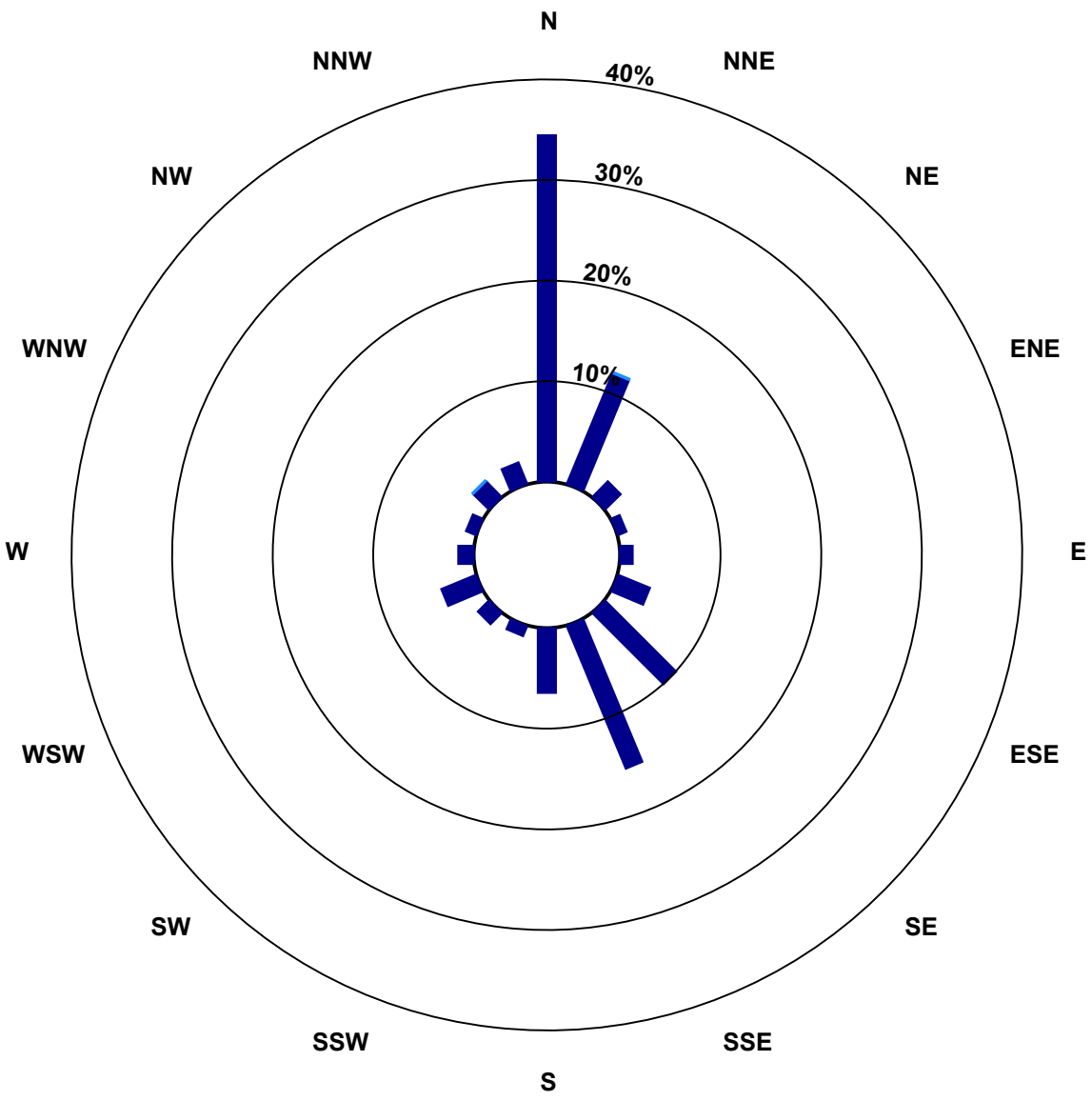
Total Number of Hours: 672

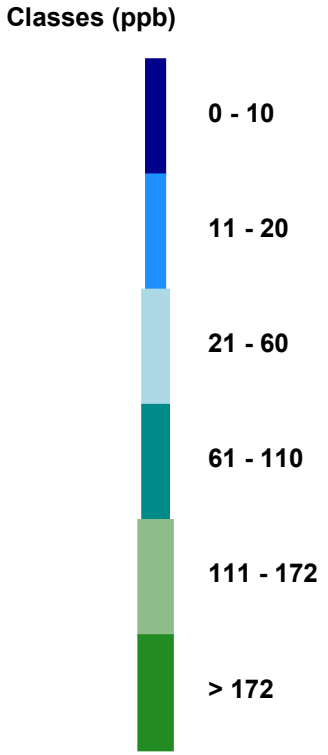
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Buffalo Viewpoint





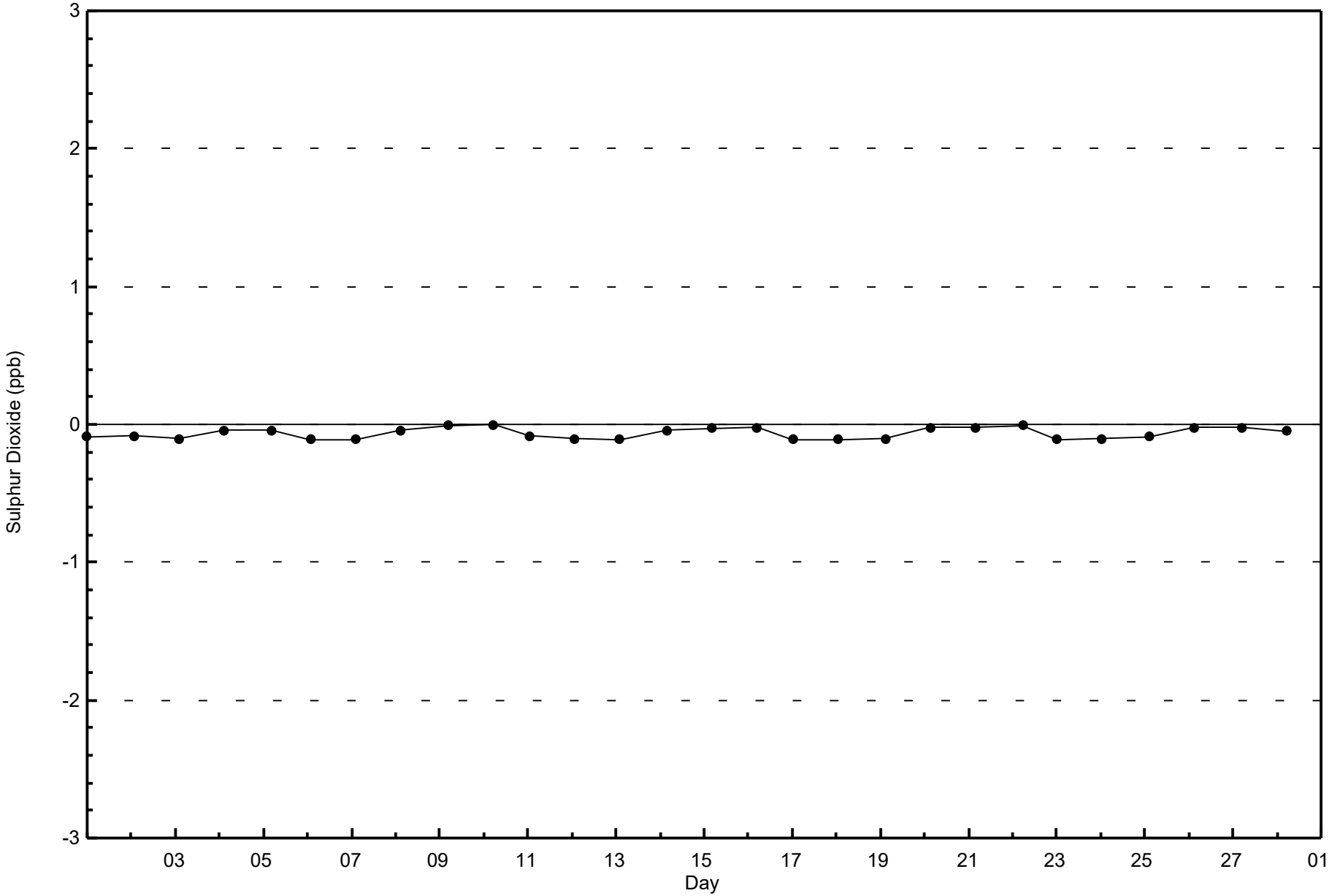
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Buffalo Viewpoint - February 2026

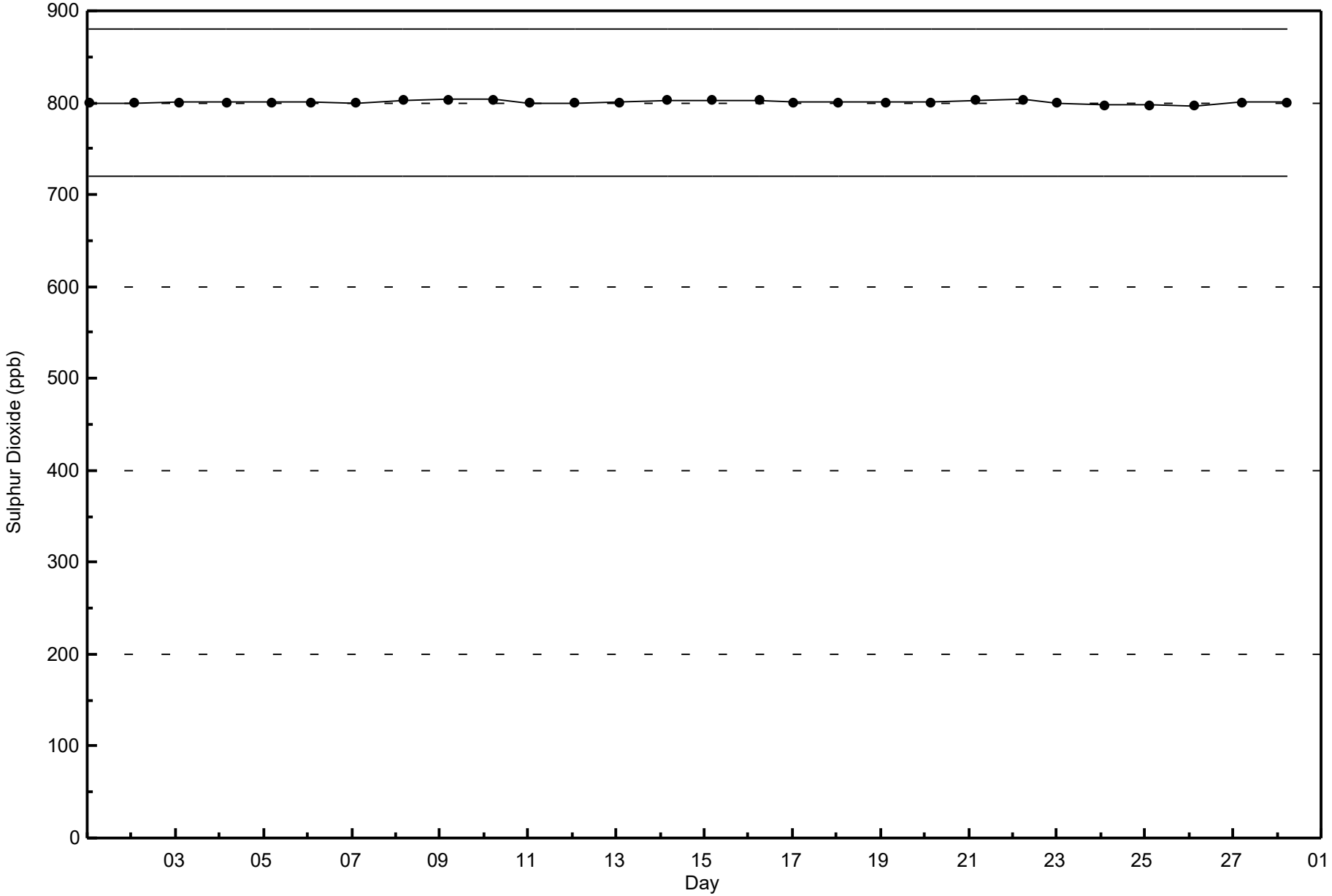


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Buffalo Viewpoint - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Buffalo Viewpoint - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 5.8 ppb on Feb 14 22:00 Maximum Daily Average: 1.3 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 19 16:00
Maximum Diurnal Average: 0.5 ppb at hour 24
Monthly Average: 0.29 ppb

Minimum Daily Average: 0.1 ppb on Feb 17
Minimum Diurnal Average: 0.2 ppb at hour 5
Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.1 Median = 0.1 Q_3 = 0.2 P_{90} = 0.6 P_{99} = 3.0

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	33
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	Z	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
2-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.8	0.5	0.3	0.2	0.8
3-Feb	0.3	0.3	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.4
4-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
5-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.1	DF	DF	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
6-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	2.7	0.2	2.7
7-Feb	2.3	3.1	1.2	Z	0.2	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	3.1
8-Feb	0.2	0.4	0.2	0.3	Z	0.6	0.5	1.6	2.1	3.6	1.5	0.6	0.4	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.6	3.6
9-Feb	0.1	0.1	0.1	0.2	0.2	Z	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
10-Feb	Z	0.2	0.2	0.2	0.3	0.4	0.5	0.8	2.4	1.9	1.1	1.0	1.1	0.7	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.7	0.2	0.6	0.6	2.4
11-Feb	0.5	Z	0.6	0.4	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.6
12-Feb	0.1	0.1	Z	0.1	0.1	0.1	C	C	C	C	C	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
13-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	1.8	4.3	0.4	4.3
14-Feb	0.4	0.3	0.4	0.2	0.2	Z	0.1	0.1	0.1	0.2	0.3	0.9	0.9	1.4	1.0	1.0	0.9	0.9	2.5	2.6	3.6	5.8	4.4	0.7	1.3	5.8
15-Feb	0.7	0.3	0.2	0.2	0.3	Z	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.7
16-Feb	Z	0.2	0.3	0.4	0.3	0.4	0.6	0.5	0.5	1.5	2.6	0.6	0.9	0.9	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.5	2.6
17-Feb	0.0	Z	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2
19-Feb	0.2	0.2	0.2	Z	0.3	0.2	0.2	0.3	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
20-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.0	1.7	2.0	1.0	0.6	0.2	0.1	0.2	0.2	0.2	0.4	2.0
21-Feb	0.1	0.1	0.2	0.1	0.1	Z	0.2	0.1	0.2	0.2	0.2	0.2	0.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8
22-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.6	0.4	0.4	0.5	0.4	0.4	0.3	0.1	0.1	0.2	0.6
23-Feb	0.1	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.4	0.5	0.3	0.1	0.1	0.1	0.2	0.2	1.6	2.6	0.3	2.6
24-Feb	3.3	0.5	Z	0.9	0.9	0.4	0.5	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.6	0.7	0.4	0.3	0.2	0.2	0.5	3.3
25-Feb	0.1	0.1	0.1	Z	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.4	0.9	1.0	0.5	0.2	0.2	0.2	0.3	1.0
26-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
27-Feb	0.1	0.1	0.0	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.4	0.6	0.3	0.3	0.2	0.2	0.3	0.5	0.8	0.2	0.8
28-Feb	Z	0.9	0.8	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.9
	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.5	Diurnal Average	
	3.3	3.1	1.2	0.9	0.9	0.6	0.6	1.6	2.4	3.6	2.6	1.0	1.1	1.4	1.0	1.7	2.0	1.0	2.5	2.6	3.6	5.8	4.4	4.3	Diurnal Maximum	

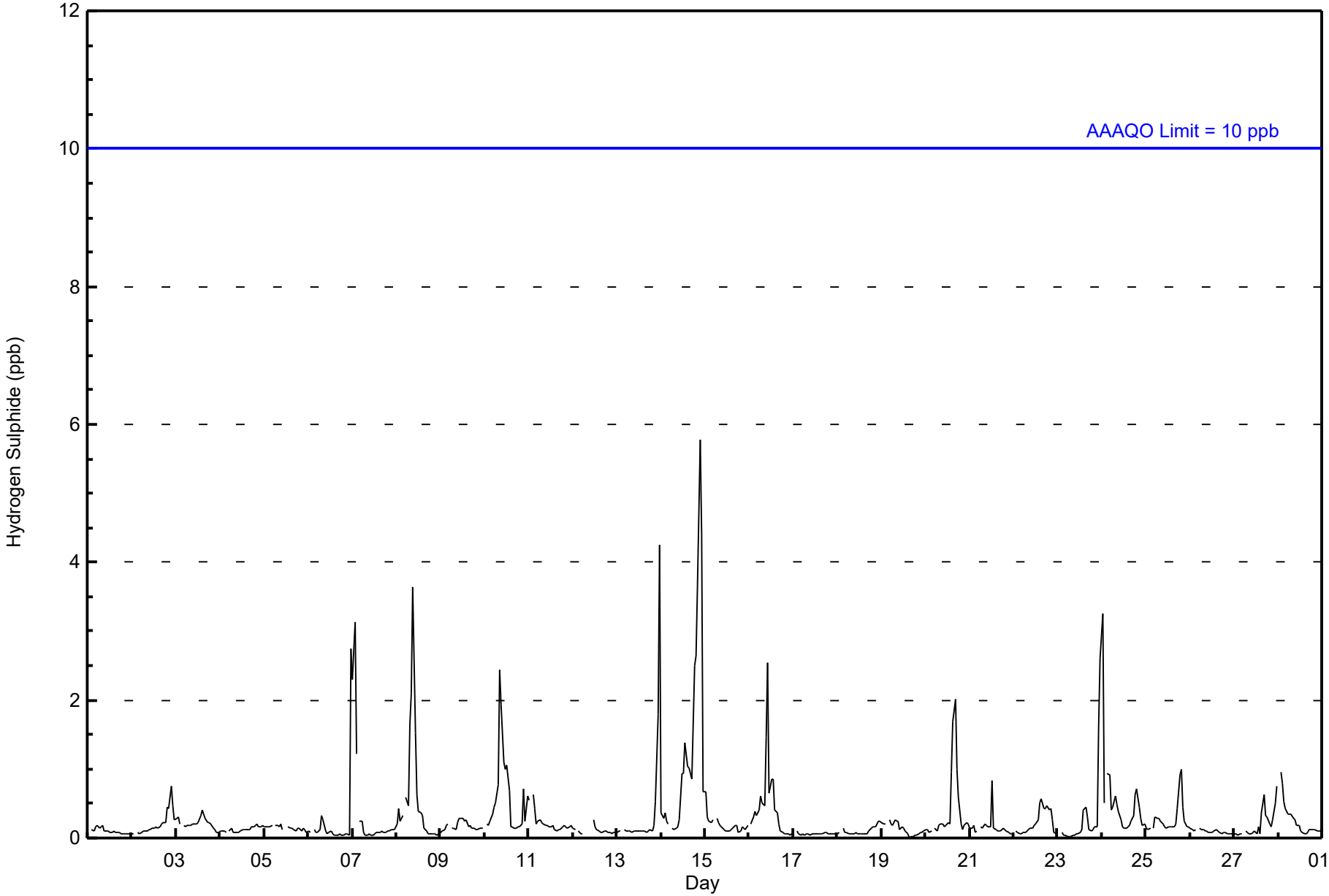
Z - zerospan C - Calibration DF - DAS Failure
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Buffalo Viewpoint - February 2026



Hydrogen Sulphide (H_2S) - ppb
Buffalo Viewpoint - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	626	98.27	98.27
3 - 4	10	1.57	99.84
5 - 7	1	0.16	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Buffalo Viewpoint - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	217	74	14	7	7	22	64	100	42	7	9	21	10	6	13	13	626
3 - 4	1	2	0	0	0	0	0	0	0	1	0	1	0	0	2	3	10
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	218	76	14	7	7	22	64	100	42	8	9	22	10	7	15	16	637

Total Number of Valid Hours: 637

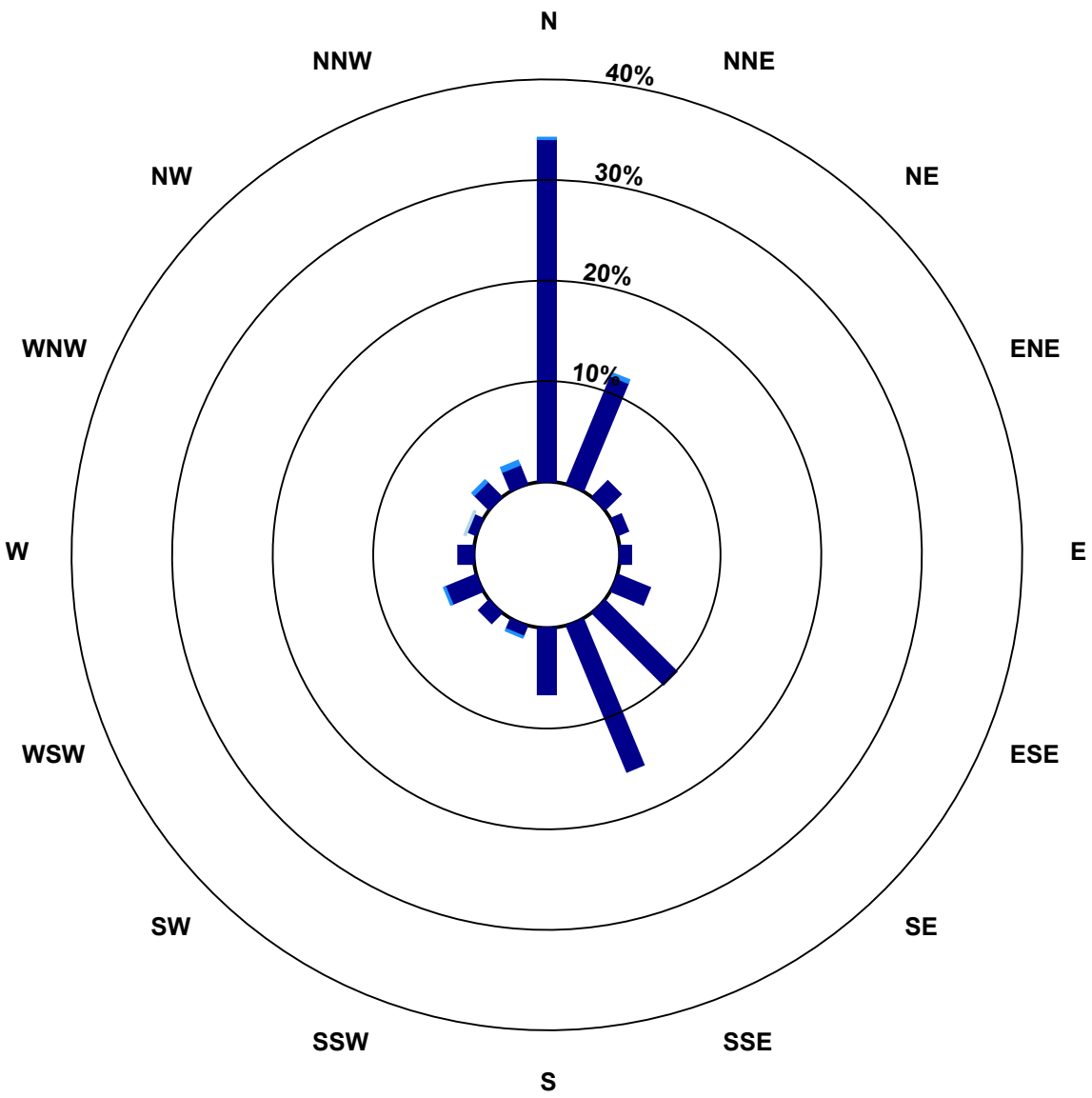
Total Number of Hours: 672

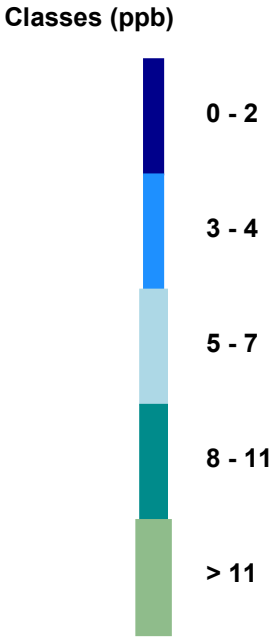
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Buffalo Viewpoint





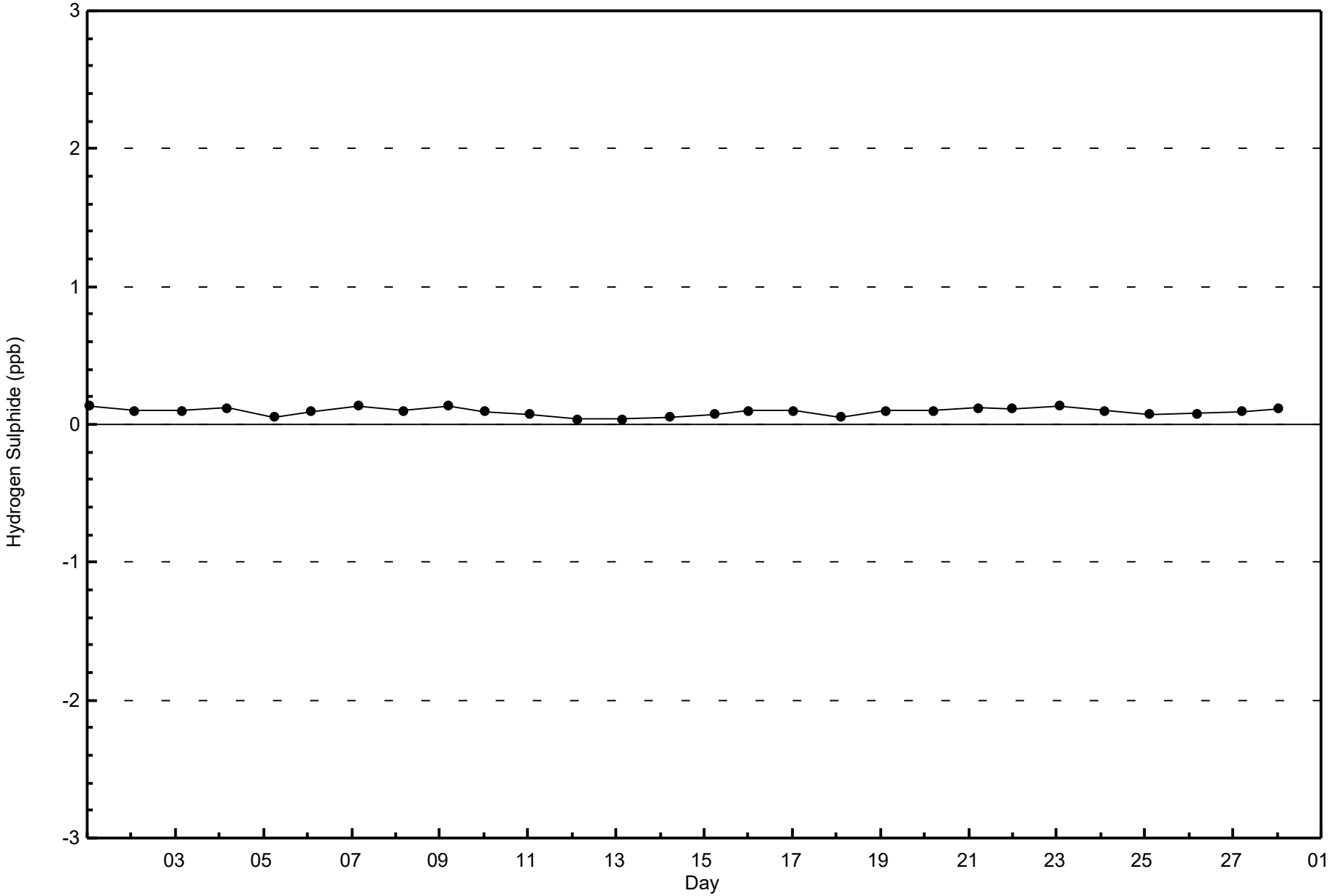
Total Number of Valid Hours: 637

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Buffalo Viewpoint - February 2026

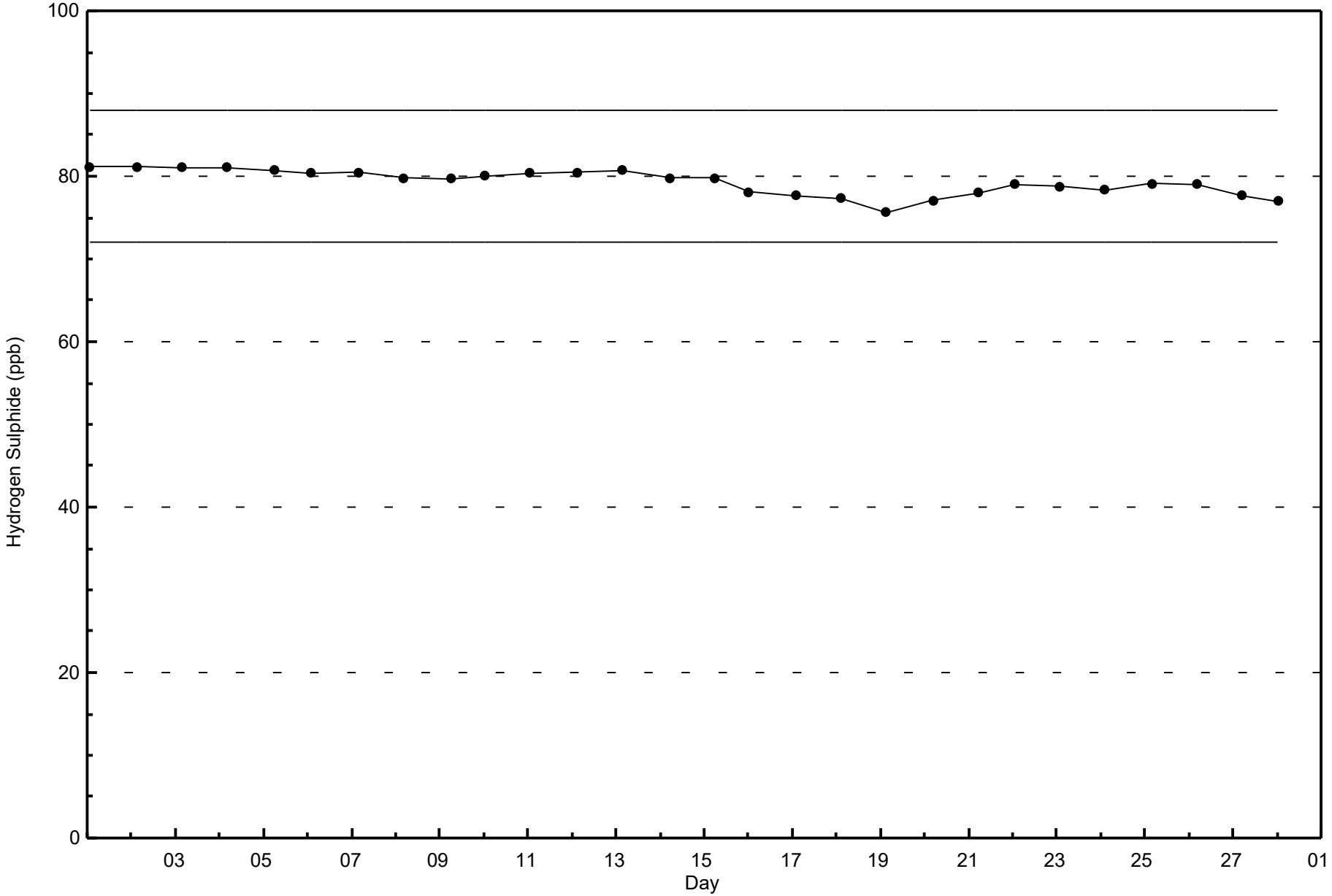


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Buffalo Viewpoint - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Buffalo Viewpoint - February 2026

Maximum Value: 3.7 ppm on Feb 7 00:00

Maximum Daily Average: 2.5 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 4 16:00

Minimum Daily Average: 2.0 ppm on Feb 12

Maximum Diurnal Average: 2.2 ppm at hour 24

Minimum Diurnal Average: 2.1 ppm at hour 15

Monthly Average: 2.18 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.1 Q_1 = 2.1 Median = 2.1 Q_3 = 2.2 P_{90} = 2.3 P_{99} = 3.3

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	32
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.1	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
2-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.5	2.4	2.3	2.1	2.5
3-Feb	2.2	2.2	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2
4-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
5-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	DF	DF	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
6-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	M	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.7	2.2	3.7
7-Feb	3.2	3.6	Z	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	3.6
8-Feb	2.2	2.3	2.3	Z	2.6	2.5	2.6	3.1	3.3	3.0	3.0	2.6	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	3.3
9-Feb	2.1	2.1	2.1	2.2	Z	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
10-Feb	2.1	2.1	2.2	2.2	2.2	Z	2.3	2.4	2.8	2.6	2.7	2.5	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.3	2.8
11-Feb	Z	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.3
12-Feb	2.1	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
13-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.5	2.1	2.5
14-Feb	2.1	2.2	2.2	2.2	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.4	2.3	2.3	2.5	3.0	2.6	3.6	3.4	3.6	3.2	3.3	2.5	2.5	3.6
15-Feb	2.5	2.2	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5
16-Feb	2.2	2.2	2.2	2.2	2.2	Z	2.3	2.3	2.3	2.6	2.8	2.3	2.4	2.6	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.8
17-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
18-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.2
19-Feb	2.2	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
20-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.2	2.1	2.2	2.2	2.1	2.1	2.2	2.4	2.2	2.3	2.5	2.7	2.5	2.2	2.1	2.2	2.2	2.2	2.2	2.7
21-Feb	2.1	2.2	2.2	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
22-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.5	2.4	2.4	2.4	2.3	2.3	2.2	2.1	2.1	2.2	2.5
23-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	C	C	C	C	2.1	2.1	2.1	2.3	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.7	3.1	2.2	3.1
24-Feb	3.1	Z	2.3	2.5	2.6	2.3	2.3	2.4	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.7	2.3	2.4	2.2	2.2	2.2	2.1	2.2	2.3	3.1
25-Feb	2.1	2.1	Z	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.2	3.5	2.8	2.9	2.4	2.2	2.1	2.1	2.3	3.5
26-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
27-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.3
28-Feb	2.2	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
	2.2	2.2	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	Diurnal Average	
	3.2	3.6	2.3	2.5	2.6	2.5	2.6	3.1	3.3	3.0	3.0	2.6	2.4	2.6	2.3	2.5	3.0	3.5	3.6	3.4	3.6	3.2	3.3	3.7	Diurnal Maximum	

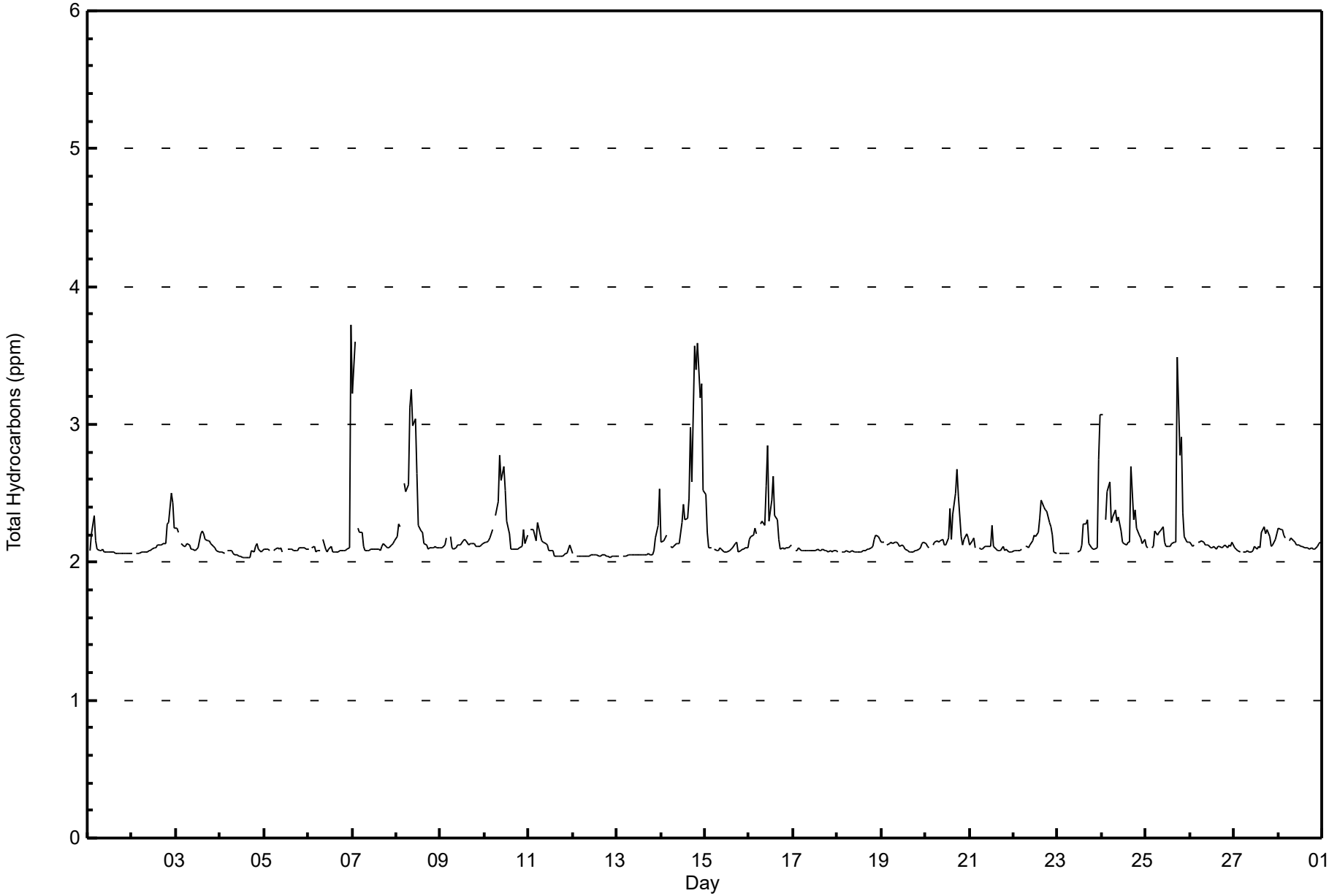
Z - zerospan C - Calibration M - Maintenance DF - DAS Failure

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Buffalo Viewpoint - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	36	5.65	5.65
2.1 - 3.0	588	92.31	97.96
3.1 - 10.0	13	2.04	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Buffalo Viewpoint - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	0	0	0	0	0	0	1	4	2	2	5	13	8	1	0	0	36
2.1 - 3.0	219	75	13	5	8	22	63	94	39	5	5	9	2	5	11	13	588
3.1 - 10.0	1	2	1	0	0	0	0	0	0	0	0	2	0	1	4	2	13
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	220	77	14	5	8	22	64	98	41	7	10	24	10	7	15	15	637

Total Number of Valid Hours: 637

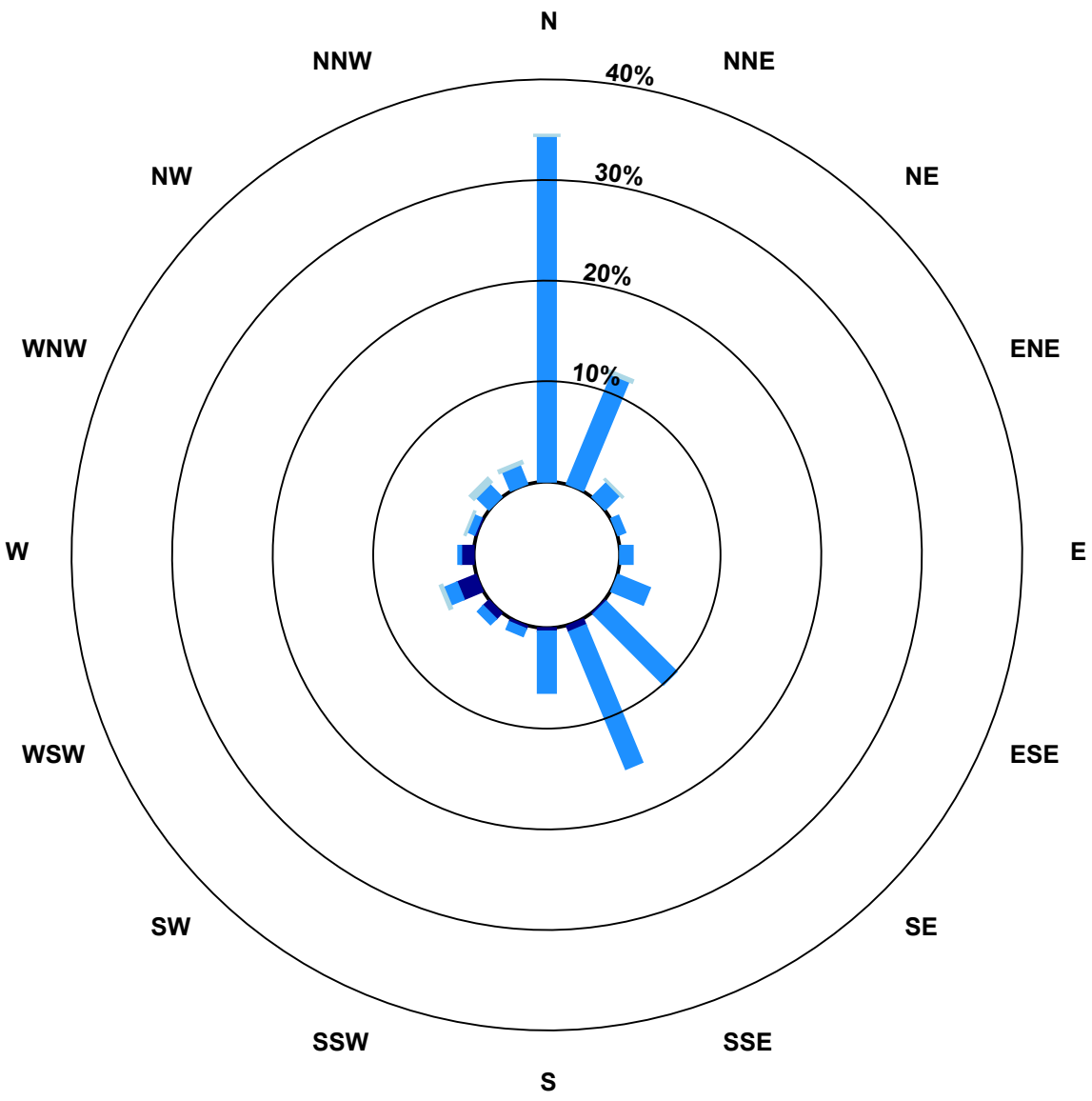
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Buffalo Viewpoint



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

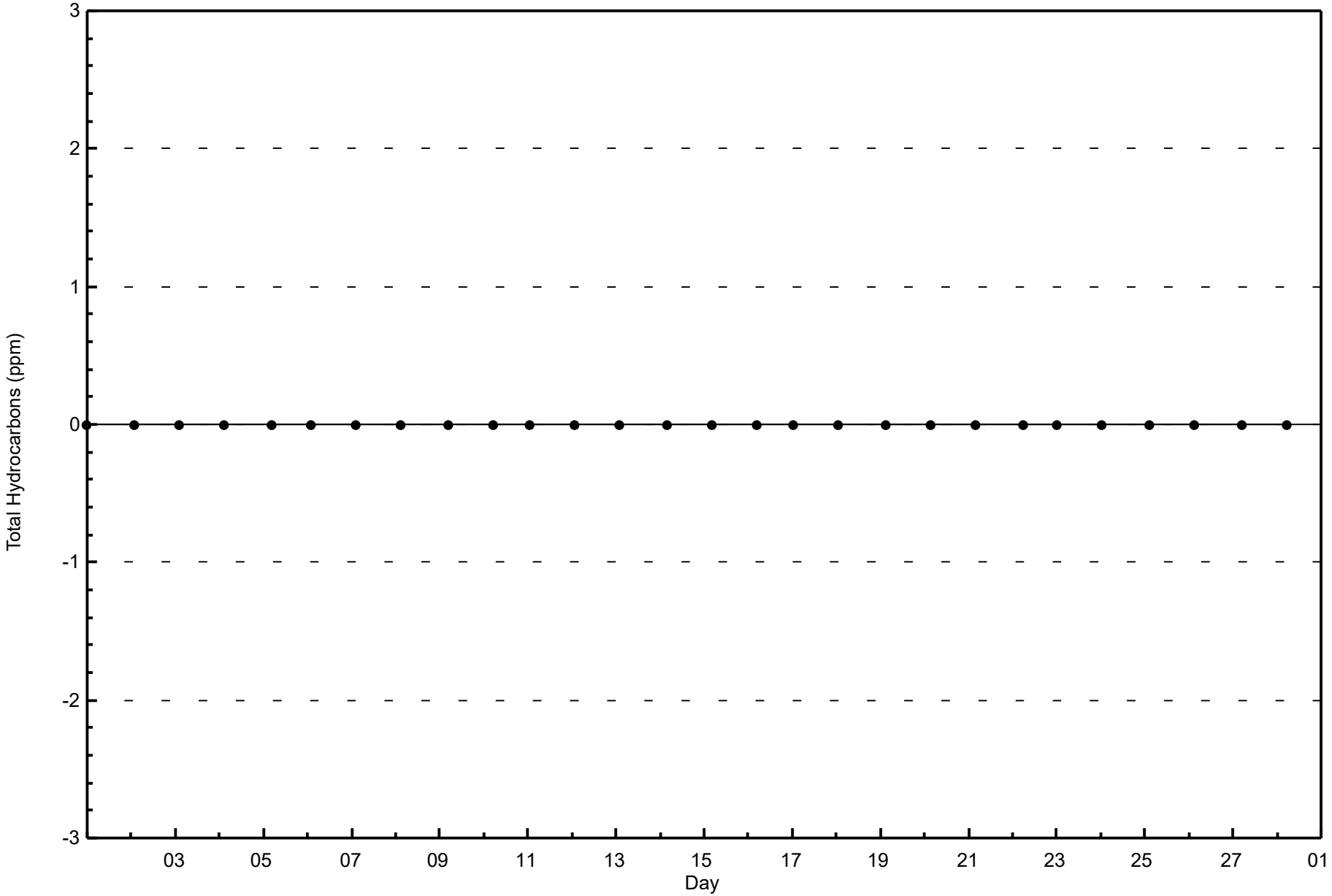
Total Number of Valid Hours: 637

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Buffalo Viewpoint - February 2026

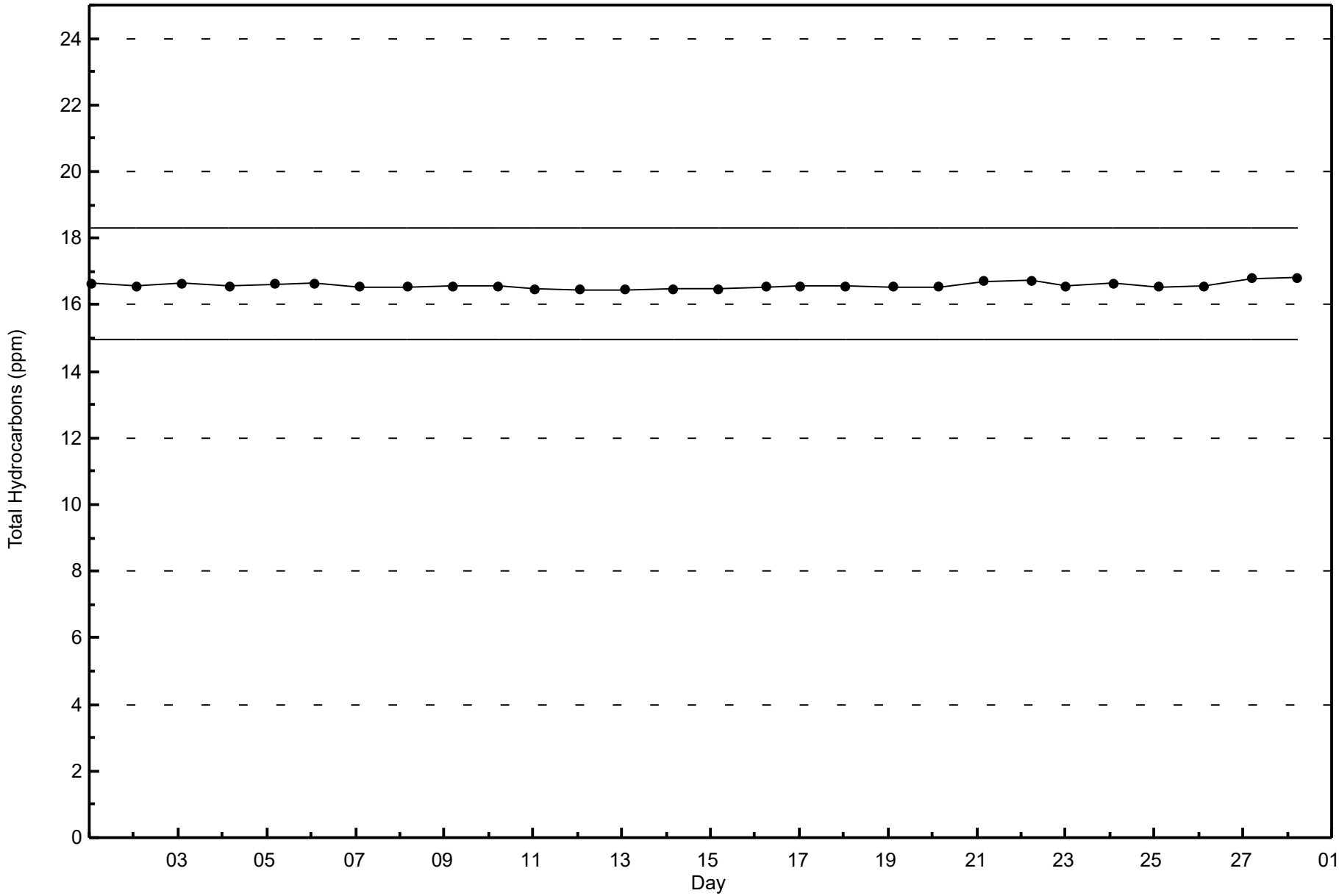


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Buffalo Viewpoint - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Buffalo Viewpoint - February 2026

Maximum Value: 0.258 ppm on Feb 8 08:00

Maximum Daily Average: 0.034 ppm on Feb 8

Minimum Value: 0.000 ppm on Feb 1 03:00

Minimum Daily Average: 0.000 ppm on Feb 5

Maximum Diurnal Average: 0.018 ppm at hour 19

Minimum Diurnal Average: 0.000 ppm at hour 21

Monthly Average: 0.005 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.0 P_{99} = 0.1

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	32
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
2-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.001	0.000	0.001	0.001	0.001	0.002	0.000	0.000	0.000	0.020	0.001	0.001	0.001	0.020
3-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005
4-Feb	0.000	0.001	0.000	Z	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006
5-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	DF	DF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	M	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
8-Feb	0.000	0.000	0.000	Z	0.091	0.141	0.183	0.258	0.000	0.000	0.021	0.016	0.016	0.000	0.048	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.034	0.258
9-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.001	0.002	0.000	0.002	0.031	0.038	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.038
11-Feb	Z	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
12-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.021	0.213	0.067	0.000	0.000	0.000	0.000	0.013	0.213
15-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.031	0.104	0.038	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.104
17-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.015	0.219	0.150	0.000	0.000	0.000	0.000	0.000	0.017	0.219
21-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
22-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.031	0.076	0.139	0.150	0.103	0.078	0.008	0.000	0.000	0.000	0.000	0.025	0.150
23-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	C	C	C	C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.090
24-Feb	0.072	Z	0.009	0.031	0.044	0.004	0.007	0.007	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.029	0.008	0.000	0.000	0.000	0.000	0.009	0.072
25-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.040	0.041	0.181	0.000	0.000	0.000	0.000	0.011	0.181
26-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.051	0.003	0.051
27-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
28-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.003	0.000	0.000	0.001	0.006	0.006	0.007	0.010	0.000	0.000	0.002	0.002	0.002	0.005	0.006	0.007	0.006	0.014	0.018	0.009	0.000	0.001	0.000	0.005	Diurnal Average	
	0.072	0.001	0.009	0.031	0.091	0.141	0.183	0.258	0.000	0.002	0.031	0.038	0.031	0.104	0.076	0.139	0.150	0.219	0.213	0.181	0.000	0.020	0.013	0.090	Diurnal Maximum	

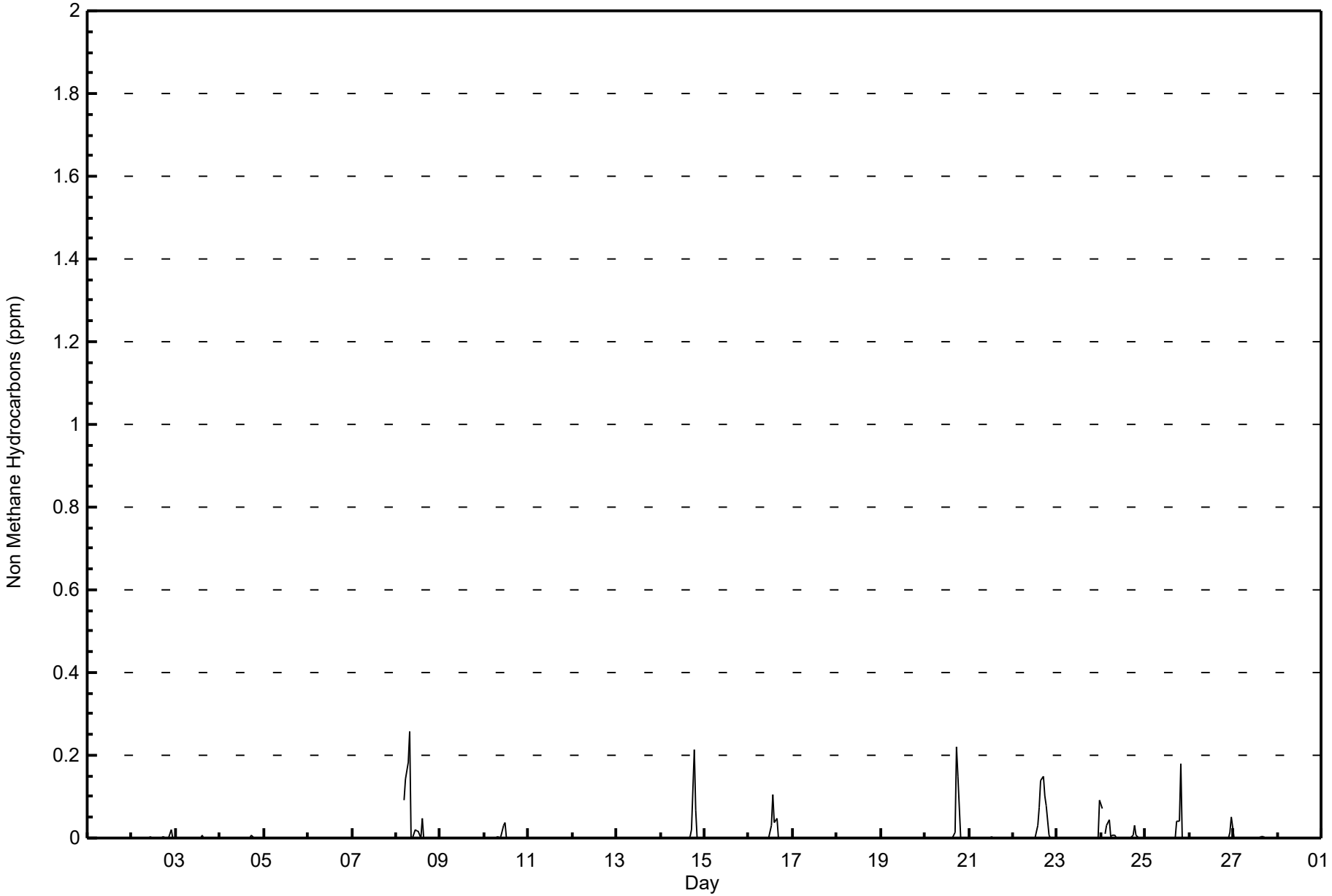
Z - zerospan C - Calibration M - Maintenance DF - DAS Failure

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Buffalo Viewpoint - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	593	93.09	93.09
0.006 - 0.05	27	4.24	97.33
0.06 - 0.1	12	1.88	99.22
> 0.1	5	0.78	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Buffalo Viewpoint - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	202	75	13	5	8	22	61	93	40	7	10	23	9	7	10	8	593
0.006 - 0.05	9	2	1	0	0	0	3	5	1	0	0	0	1	0	4	1	27
0.06 - 0.1	6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5	12
> 0.1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5
Totals	220	77	14	5	8	22	64	98	41	7	10	24	10	7	15	15	637

Total Number of Valid Hours: 637

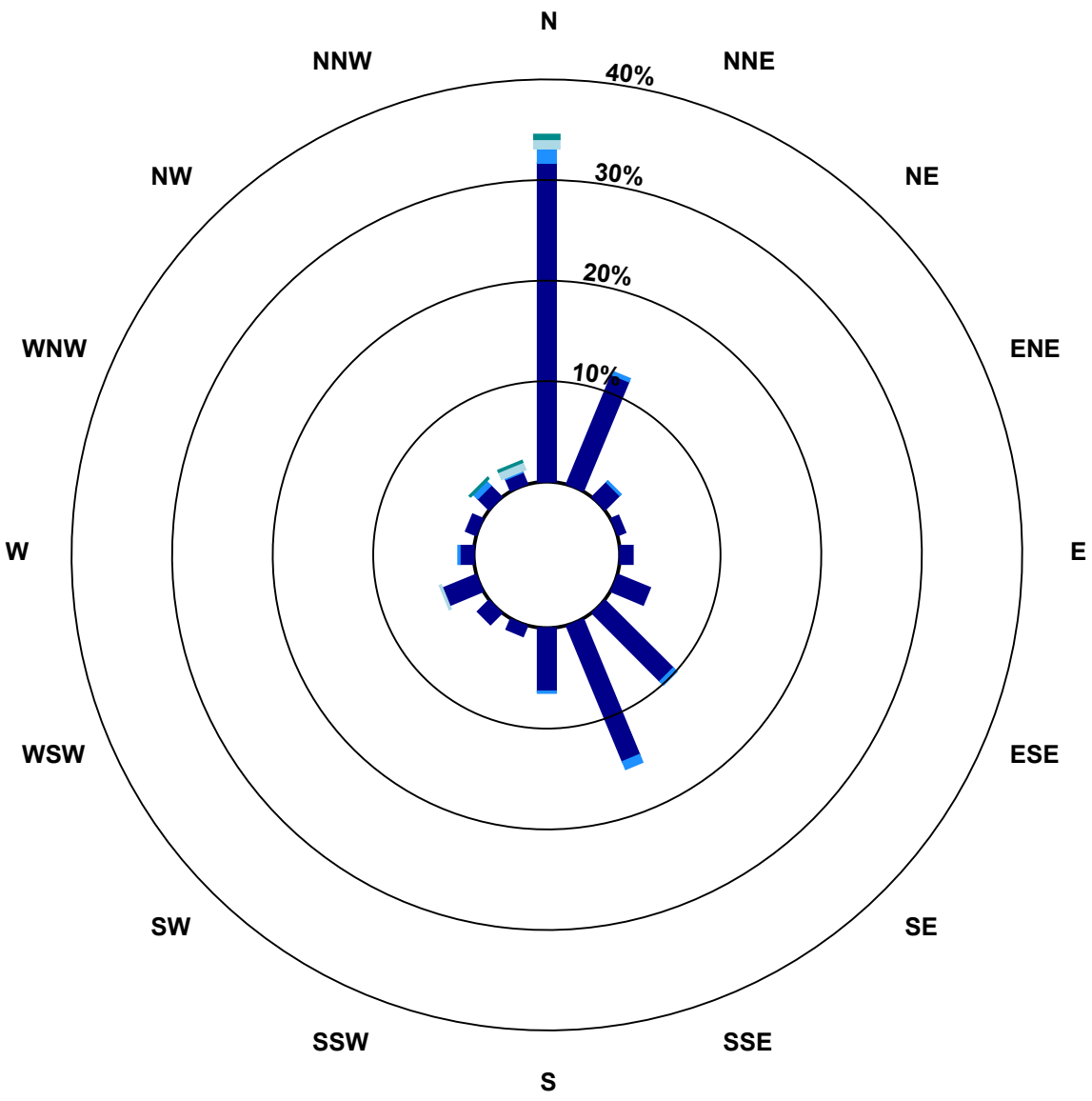
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Buffalo Viewpoint



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

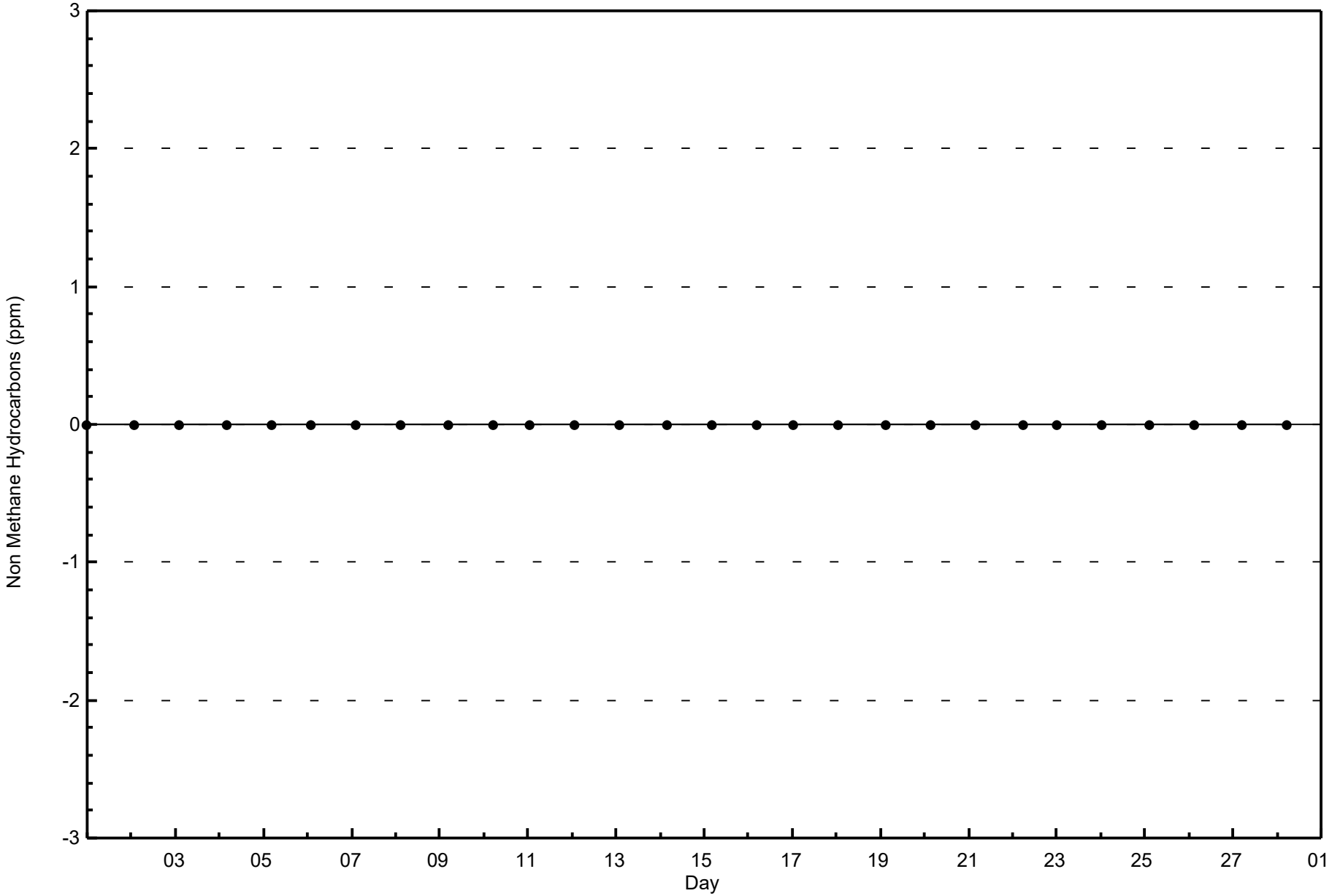
Total Number of Valid Hours: 637

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Buffalo Viewpoint - February 2026

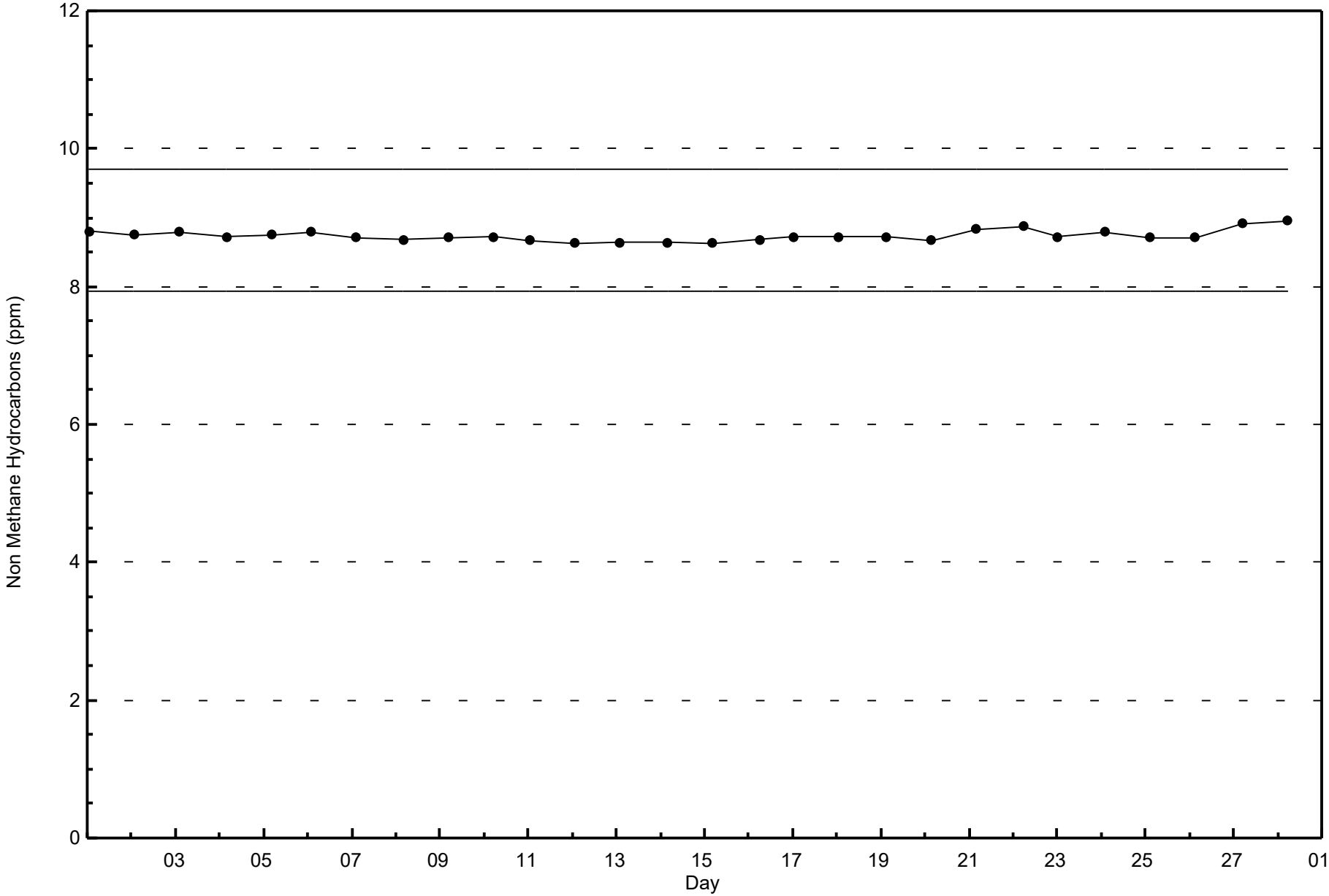


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Buffalo Viewpoint - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Buffalo Viewpoint - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 3.7 ppm on Feb 7 00:00

Maximum Daily Average: 2.5 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 4 16:00

Minimum Daily Average: 2.0 ppm on Feb 12

Maximum Diurnal Average: 2.2 ppm at hour 24

Minimum Diurnal Average: 2.1 ppm at hour 15

Monthly Average: 2.17 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.1 Q_1 = 2.1 Median = 2.1 Q_3 = 2.2 P_{90} = 2.3 P_{99} = 3.3

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	32
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.1	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
2-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.5	2.4	2.3	2.1	2.5
3-Feb	2.2	2.2	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2
4-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
5-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	DF	DF	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
6-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	M	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.7	2.2	3.7
7-Feb	3.2	3.6	Z	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	3.6
8-Feb	2.2	2.3	2.3	Z	2.5	2.4	2.4	2.9	3.3	3.0	3.0	2.6	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	3.3
9-Feb	2.1	2.1	2.1	2.2	Z	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
10-Feb	2.1	2.1	2.2	2.2	2.2	Z	2.3	2.4	2.8	2.6	2.7	2.5	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.3	2.8
11-Feb	Z	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.3
12-Feb	2.1	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
13-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.5	2.1	2.5
14-Feb	2.1	2.2	2.2	2.2	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.4	2.3	2.3	2.5	3.0	2.6	3.4	3.3	3.6	3.2	3.3	2.5	2.5	3.6
15-Feb	2.5	2.2	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5
16-Feb	2.2	2.2	2.2	2.2	2.2	Z	2.3	2.3	2.3	2.6	2.8	2.3	2.4	2.5	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.8
17-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
18-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.2
19-Feb	2.2	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
20-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.2	2.1	2.2	2.2	2.1	2.1	2.2	2.4	2.2	2.3	2.5	2.5	2.3	2.2	2.1	2.2	2.2	2.2	2.2	2.5
21-Feb	2.1	2.2	2.2	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
22-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.2	2.3
23-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	C	C	C	C	2.1	2.1	2.1	2.3	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.7	3.0	2.2	3.0
24-Feb	3.0	Z	2.3	2.5	2.5	2.3	2.3	2.4	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.7	2.3	2.4	2.2	2.2	2.2	2.1	2.2	2.3	3.0
25-Feb	2.1	2.1	Z	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.4	2.7	2.7	2.4	2.2	2.1	2.1	2.3	3.4
26-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
27-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.3
28-Feb	2.2	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	Diurnal Average	
	3.2	3.6	2.3	2.5	2.5	2.4	2.4	2.9	3.3	3.0	3.0	2.6	2.4	2.5	2.3	2.5	3.0	3.4	3.4	3.3	3.6	3.2	3.3	3.7	Diurnal Maximum	

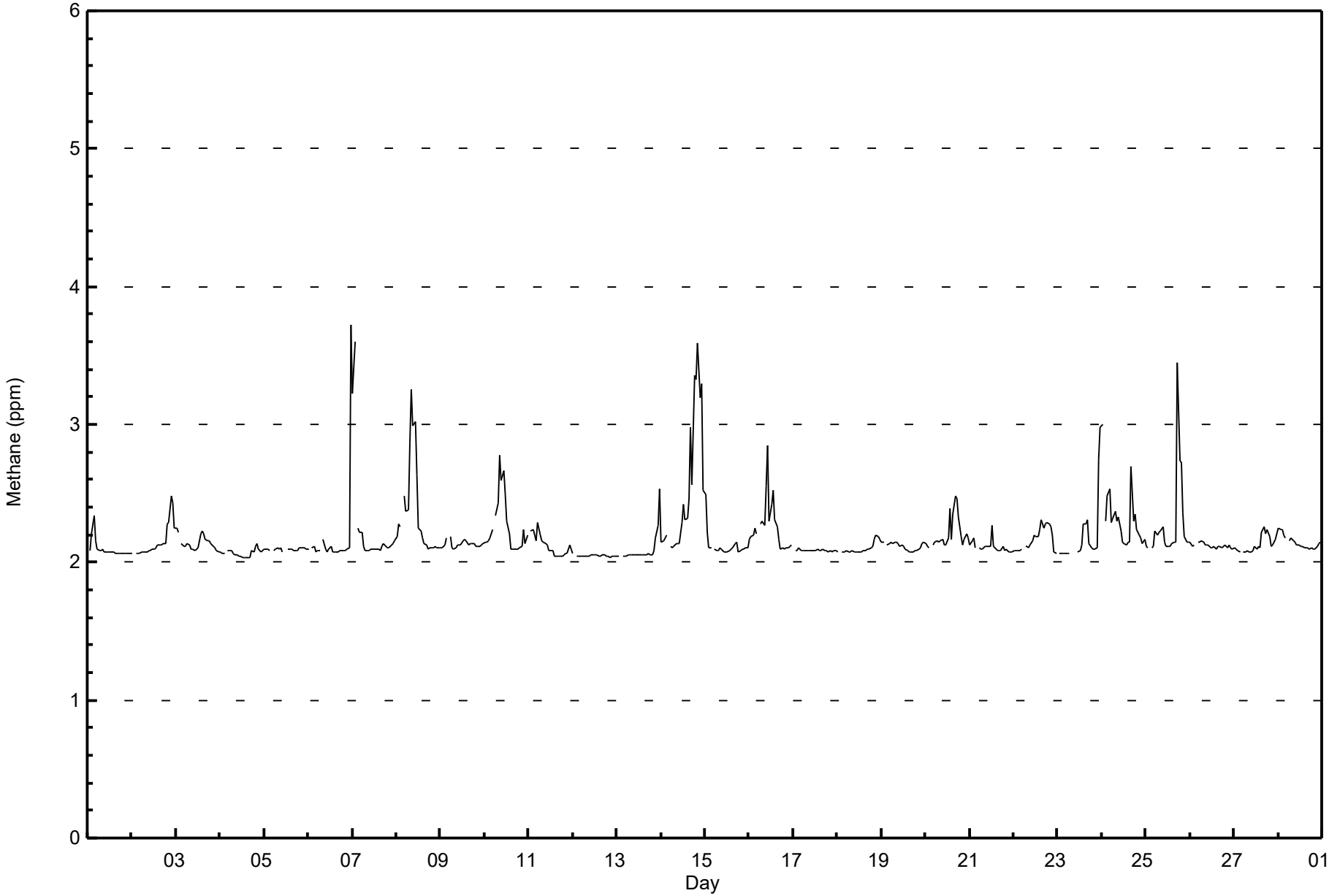
Z - zerospan C - Calibration M - Maintenance DF - DAS Failure

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Buffalo Viewpoint - February 2026



Methane (CH_4) - ppm
Buffalo Viewpoint - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	36	5.65	5.65
2.1 - 3.0	591	92.78	98.43
3.1 - 10.0	10	1.57	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Buffalo Viewpoint - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	0	0	0	0	0	0	1	4	2	2	5	13	8	1	0	0	36
2.1 - 3.0	219	75	13	5	8	22	63	94	39	5	5	10	2	5	12	14	591
3.1 - 10.0	1	2	1	0	0	0	0	0	0	0	0	1	0	1	3	1	10
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	220	77	14	5	8	22	64	98	41	7	10	24	10	7	15	15	637

Total Number of Valid Hours: 637

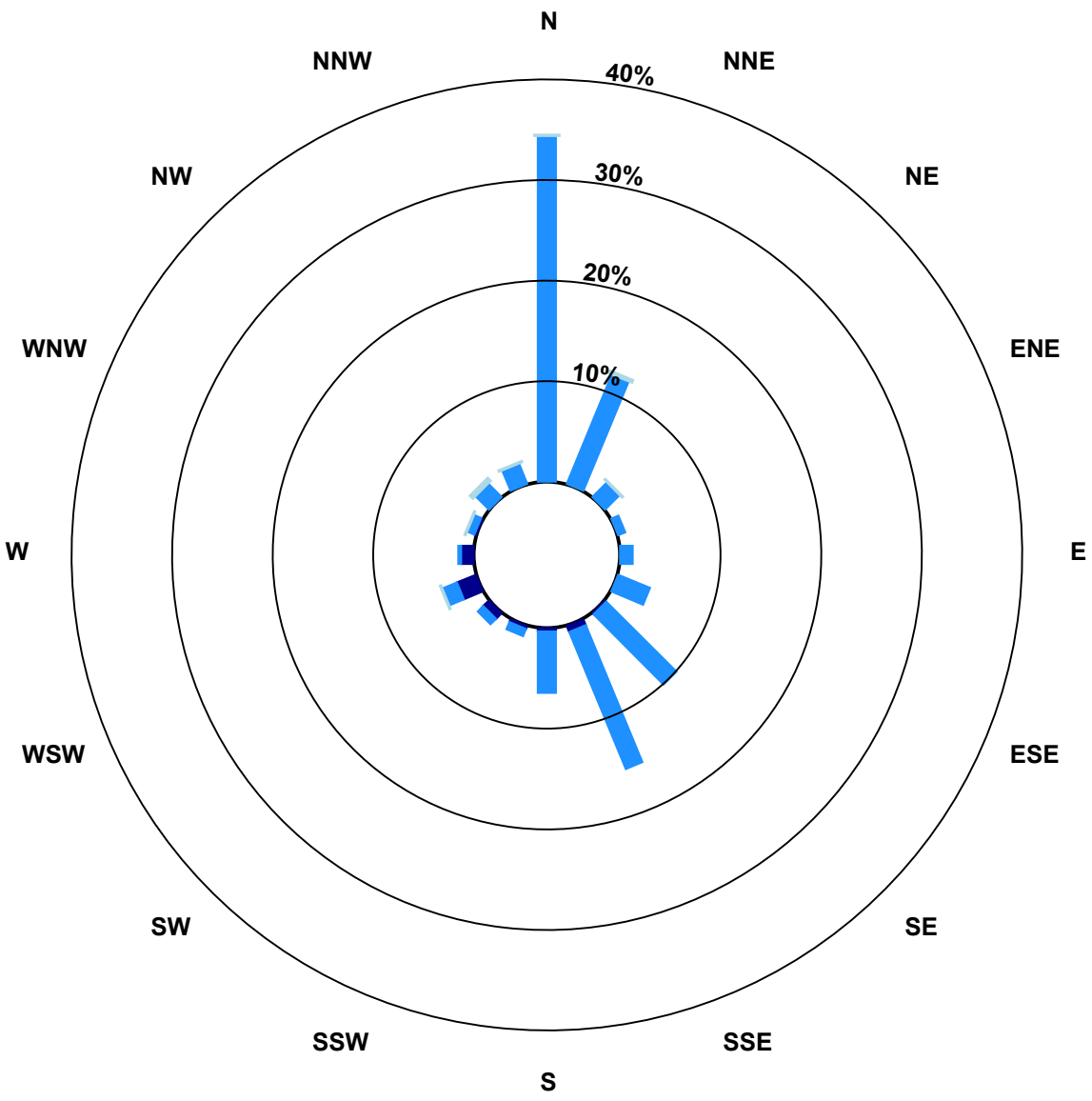
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Buffalo Viewpoint



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

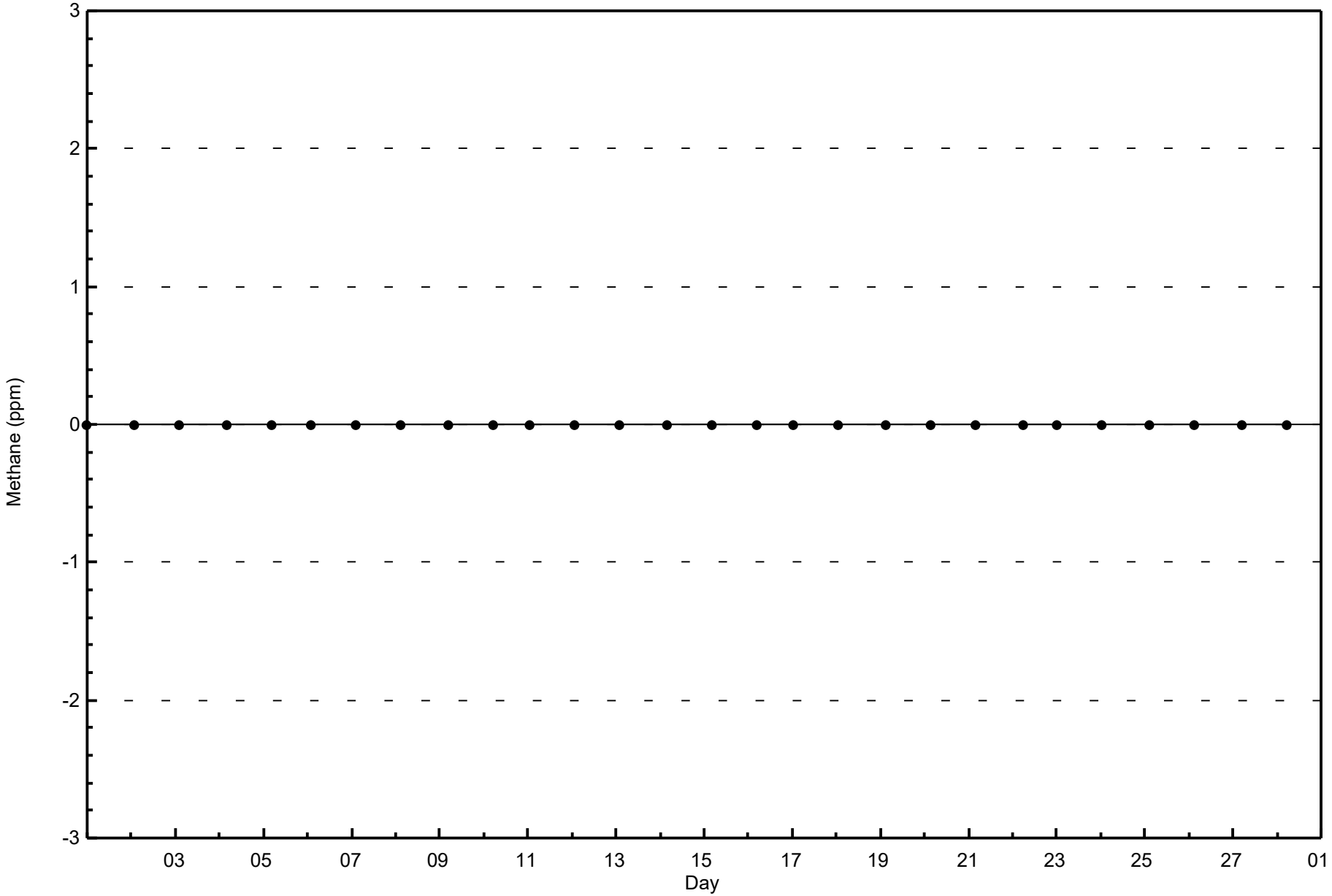
Total Number of Valid Hours: 637

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Buffalo Viewpoint - February 2026

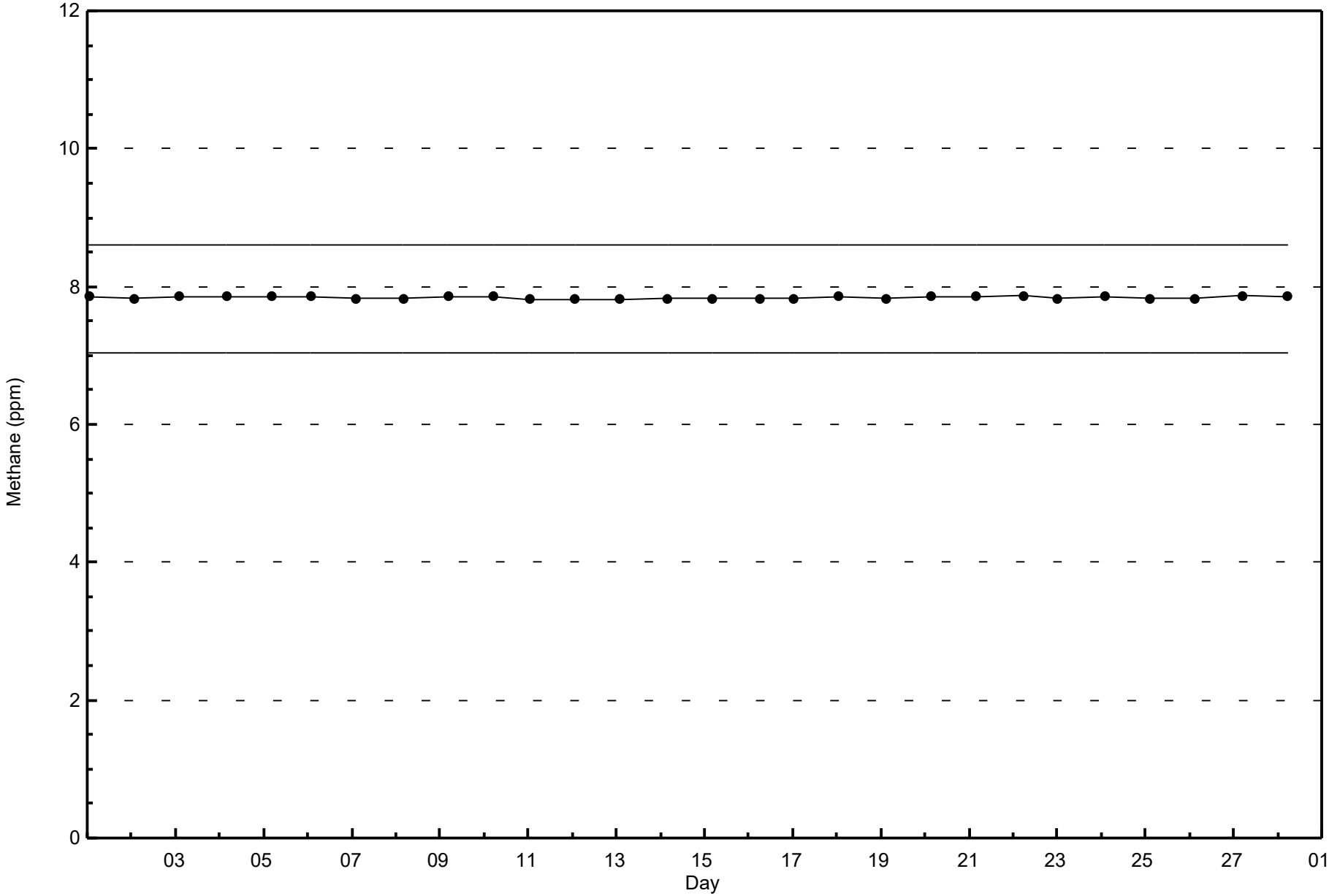


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Buffalo Viewpoint - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Buffalo Viewpoint - February 2026

Maximum Value: 96.0 ppb on Feb 14 19:00

Maximum Daily Average: 19.2 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 1 01:00

Minimum Daily Average: 0.1 ppb on Feb 4

Maximum Diurnal Average: 7.5 ppb at hour 10

Minimum Diurnal Average: 0.7 ppb at hour 5

Monthly Average: 4.35 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.4 Q_3 = 3.1 P_{90} = 11.9 P_{99} = 65.9

Hours in Service:	672
Hours of Data:	616
Hours of Missing Data:	56
Hours of Calibration:	37
Percent Operational Time:	97.2

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	Z	0.3	0.3	0.0	0.4	0.6	0.2	0.2	0.1	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.6
2-Feb	0.1	0.1	0.0	0.2	Z	0.4	0.2	0.0	0.0	0.1	0.3	0.5	0.5	0.9	0.6	0.6	0.3	0.4	0.4	1.0	1.4	16.1	7.1	0.6	1.4	16.1
3-Feb	0.5	0.6	0.0	0.0	0.0	Z	0.3	0.2	0.2	0.0	0.0	0.4	1.0	1.7	2.5	2.1	1.0	0.2	0.2	0.2	0.0	0.1	0.0	0.0	0.5	2.5
4-Feb	Z	0.3	0.1	0.2	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.3	0.0	0.1	0.1	0.0	0.1	0.2	0.3	0.3	0.1	0.0	0.1	0.1	0.3
5-Feb	0.1	Z	0.5	0.0	0.0	0.0	0.0	C	C	C	C	C	C	C	M	M	M	M	M	M	M	M	M	M	--	0.5
6-Feb	M	M	M	M	M	M	M	M	M	C	C	C	2.3	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.4	--	42.4
7-Feb	27.0	46.5	16.6	1.0	0.7	Z	0.1	0.1	0.3	0.4	0.5	0.9	1.1	0.8	0.7	0.3	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.3	46.5
8-Feb	Z	0.4	0.2	1.4	3.3	1.6	1.2	16.5	45.0	39.2	23.5	15.9	6.6	5.1	3.7	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	45.0
9-Feb	0.0	Z	0.0	0.1	0.2	2.4	0.3	0.1	0.5	2.2	2.4	2.7	4.4	4.0	3.4	1.5	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.4
10-Feb	0.0	0.1	Z	0.1	0.2	0.2	0.8	4.7	12.0	26.3	34.6	22.4	9.5	4.8	0.9	0.7	0.4	0.1	0.0	0.0	0.3	2.2	0.1	0.3	5.3	34.6
11-Feb	0.3	0.7	2.7	Z	0.1	0.6	0.9	0.3	1.2	2.2	2.3	2.1	2.1	3.1	0.5	0.2	0.1	0.1	0.1	0.2	0.0	0.0	0.1	0.1	0.9	3.1
12-Feb	0.1	0.0	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	3.6	6.2	3.1	0.8	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.2
13-Feb	0.0	0.0	0.1	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	1.3	7.5	0.4	7.5
14-Feb	0.0	Z	0.0	0.1	0.0	0.0	0.0	0.0	0.8	2.3	4.1	10.5	11.7	6.8	5.2	6.5	5.8	5.2	96.0	69.2	66.8	61.0	68.7	19.6	19.2	96.0
15-Feb	20.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.3	0.4	0.5	0.9	2.2	1.6	1.3	0.6	0.5	0.2	0.7	0.1	0.1	0.5	1.3	20.0
16-Feb	0.4	0.3	Z	1.1	1.0	1.8	5.6	8.2	19.2	42.9	60.0	23.6	21.2	21.2	19.7	17.7	5.2	1.2	1.1	0.8	0.6	0.6	0.5	0.7	11.1	60.0
17-Feb	0.4	0.2	0.3	Z	0.3	0.4	0.5	0.7	0.9	1.0	1.0	1.0	1.3	1.1	0.8	0.7	0.7	0.3	0.4	0.3	0.3	0.2	0.2	0.3	0.6	1.3
18-Feb	0.4	0.8	1.2	1.1	Z	1.5	1.5	1.3	1.6	2.2	2.1	2.4	2.2	2.2	3.4	3.5	3.9	3.8	5.0	5.7	6.7	7.2	17.7	17.2	4.1	17.7
19-Feb	13.0	10.6	7.3	5.1	7.3	Z	7.3	9.1	10.3	12.9	6.2	11.0	7.7	6.3	2.6	0.3	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.1	5.1	13.0
20-Feb	Z	0.1	0.1	0.2	0.0	0.1	0.1	4.3	8.7	11.0	9.8	9.9	12.5	8.3	13.6	17.1	23.1	25.3	12.8	0.3	0.2	0.4	0.5	0.4	6.9	25.3
21-Feb	0.0	Z	1.1	0.2	0.0	0.0	0.1	0.3	4.2	5.0	5.0	3.3	10.6	3.7	2.1	1.0	0.7	0.3	0.2	0.2	0.3	0.3	0.3	0.1	1.7	10.6
22-Feb	0.2	0.2	Z	0.2	0.3	1.1	1.6	2.7	6.8	10.7	12.0	15.3	16.5	21.5	23.8	25.6	25.9	25.2	31.5	26.6	23.4	7.6	0.0	0.0	12.1	31.5
23-Feb	0.0	0.1	0.0	Z	0.0	0.0	0.0	0.0	0.4	0.8	0.8	0.7	3.3	3.7	6.0	4.7	2.4	0.7	0.1	0.0	0.1	0.1	80.6	93.1	8.6	93.1
24-Feb	69.0	10.5	11.7	27.4	Z	9.5	13.8	19.0	18.5	16.5	9.9	4.7	4.2	3.4	4.4	5.4	6.8	4.6	16.4	13.9	5.9	0.4	0.1	0.1	12.0	69.0
25-Feb	0.0	0.0	0.0	0.0	0.1	Z	1.4	2.8	4.4	4.1	1.9	1.9	2.9	2.8	2.3	1.9	1.6	1.8	24.1	38.7	0.3	0.0	0.0	0.0	4.0	38.7
26-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.7	1.2	1.2	1.2	2.0	2.3	1.6	2.1	1.0	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.6	2.3
27-Feb	0.0	Z	0.0	0.1	0.0	0.0	0.1	0.4	1.0	1.0	1.8	3.2	3.0	4.9	3.8	8.4	7.7	3.1	8.5	3.3	0.8	0.1	1.3	2.3	2.4	8.5
28-Feb	9.4	3.3	Z	1.8	1.1	1.3	1.4	2.7	7.9	11.0	7.1	8.1	4.3	3.2	1.6	1.4	0.8	0.3	0.1	0.1	0.0	0.1	0.1	0.0	2.9	11.0
	6.1	3.6	1.8	1.8	0.7	1.0	1.4	2.9	5.6	7.5	7.3	5.7	5.0	4.2	3.9	3.9	3.4	2.7	7.3	6.0	4.0	3.6	6.6	6.9	Diurnal Average	
	69.0	46.5	16.6	27.4	7.3	9.5	13.8	19.0	45.0	42.9	60.0	23.6	21.2	21.5	23.8	25.6	25.9	25.3	96.0	69.2	66.8	61.0	80.6	93.1	Diurnal Maximum	

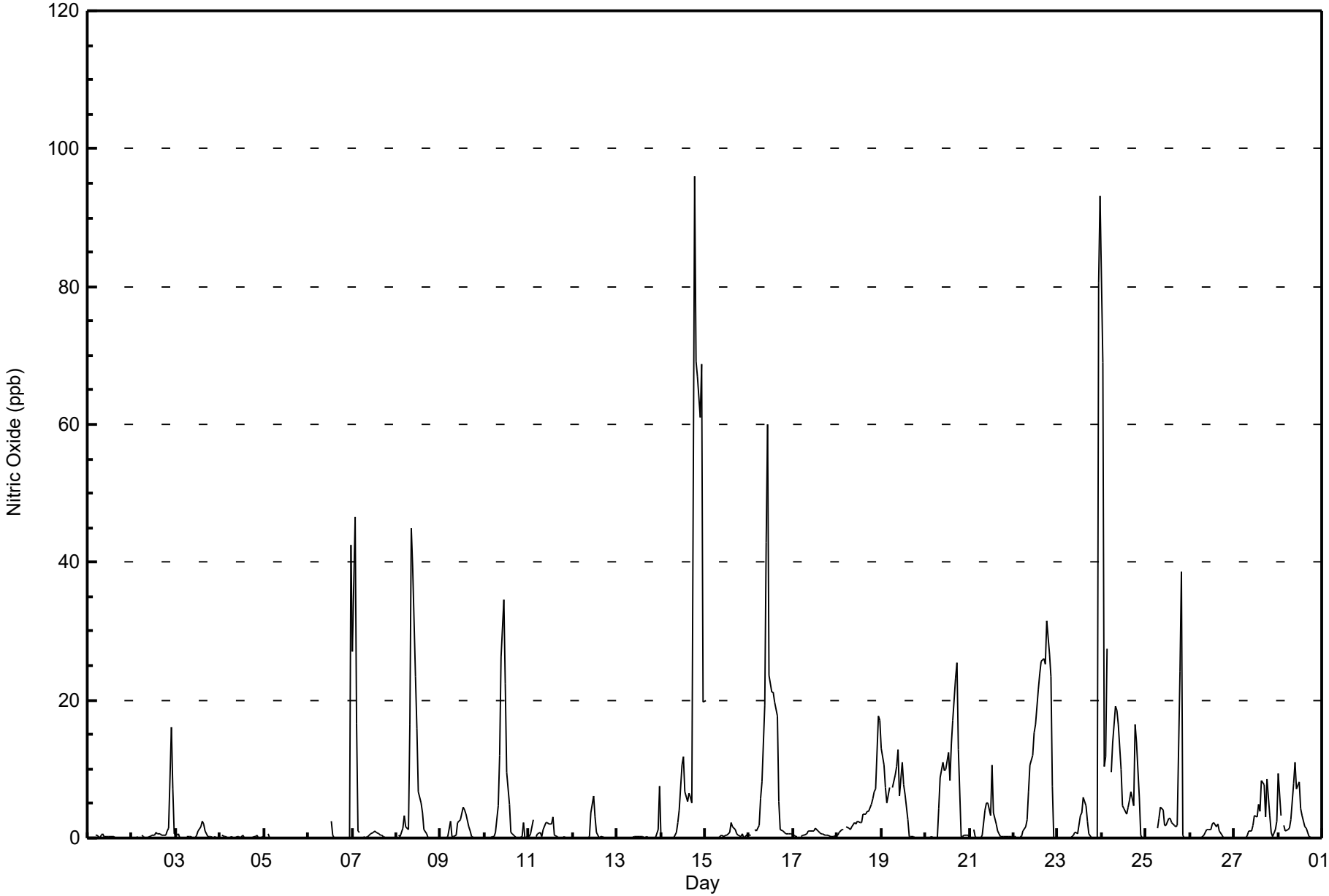
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Buffalo Viewpoint - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	581	94.32	94.32
21 - 40	22	3.57	97.89
11 - 80	10	1.62	99.51
81 - 159	2	0.32	99.84
> 159	0	0.00	99.84

Total Number of Valid Hours: 616

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Buffalo Viewpoint - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	204	61	10	5	5	18	62	100	41	8	10	22	10	5	8	12	581
21 - 40	10	1	1	0	0	0	0	1	1	0	0	1	1	0	4	2	22
11 - 80	1	2	0	0	0	0	0	0	0	0	0	1	0	1	3	2	10
81 - 159	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	216	64	11	5	5	18	62	101	42	8	10	24	11	6	15	17	615

Total Number of Valid Hours: 616

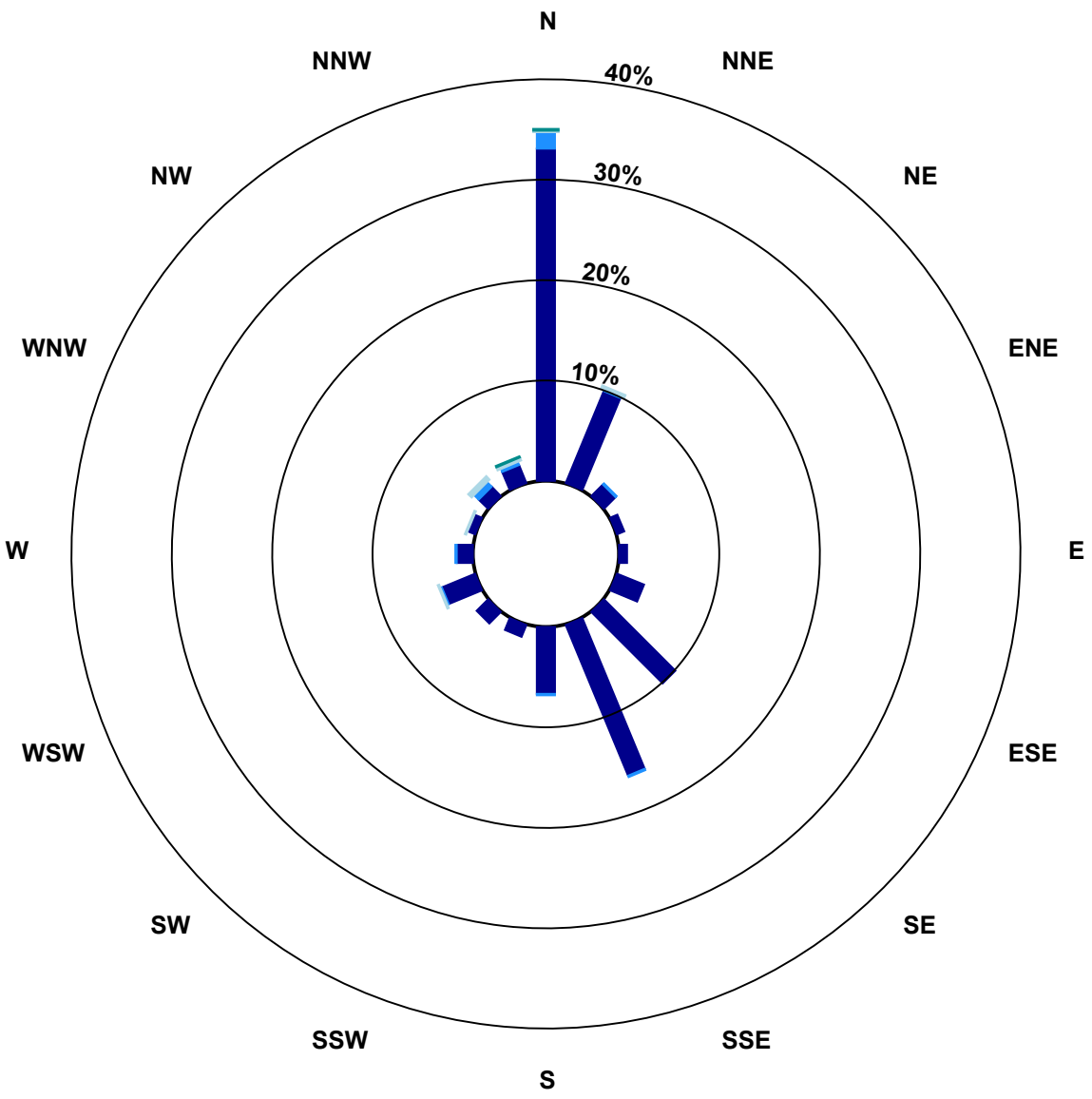
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Buffalo Viewpoint



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

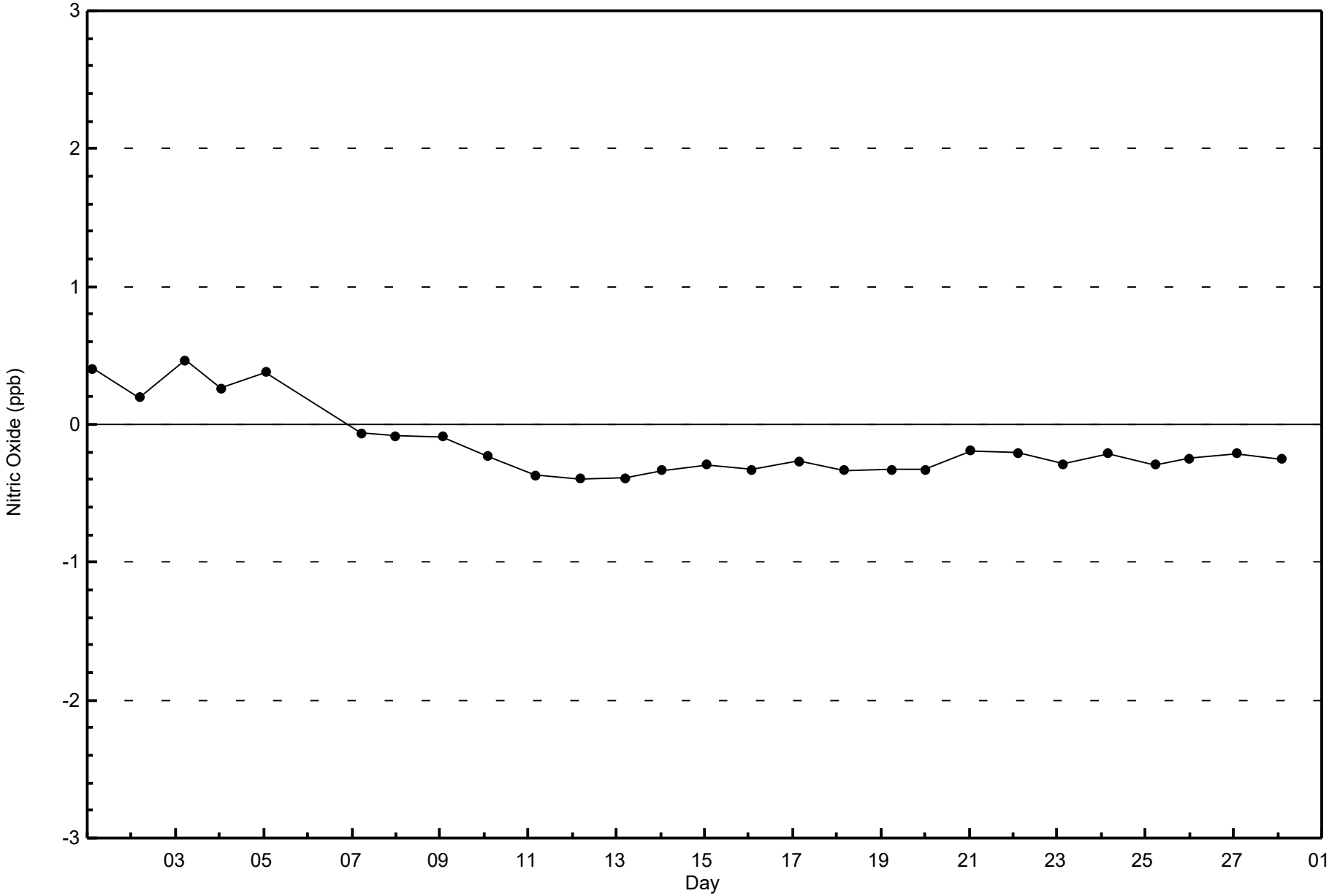
Total Number of Valid Hours: 616

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Buffalo Viewpoint - February 2026

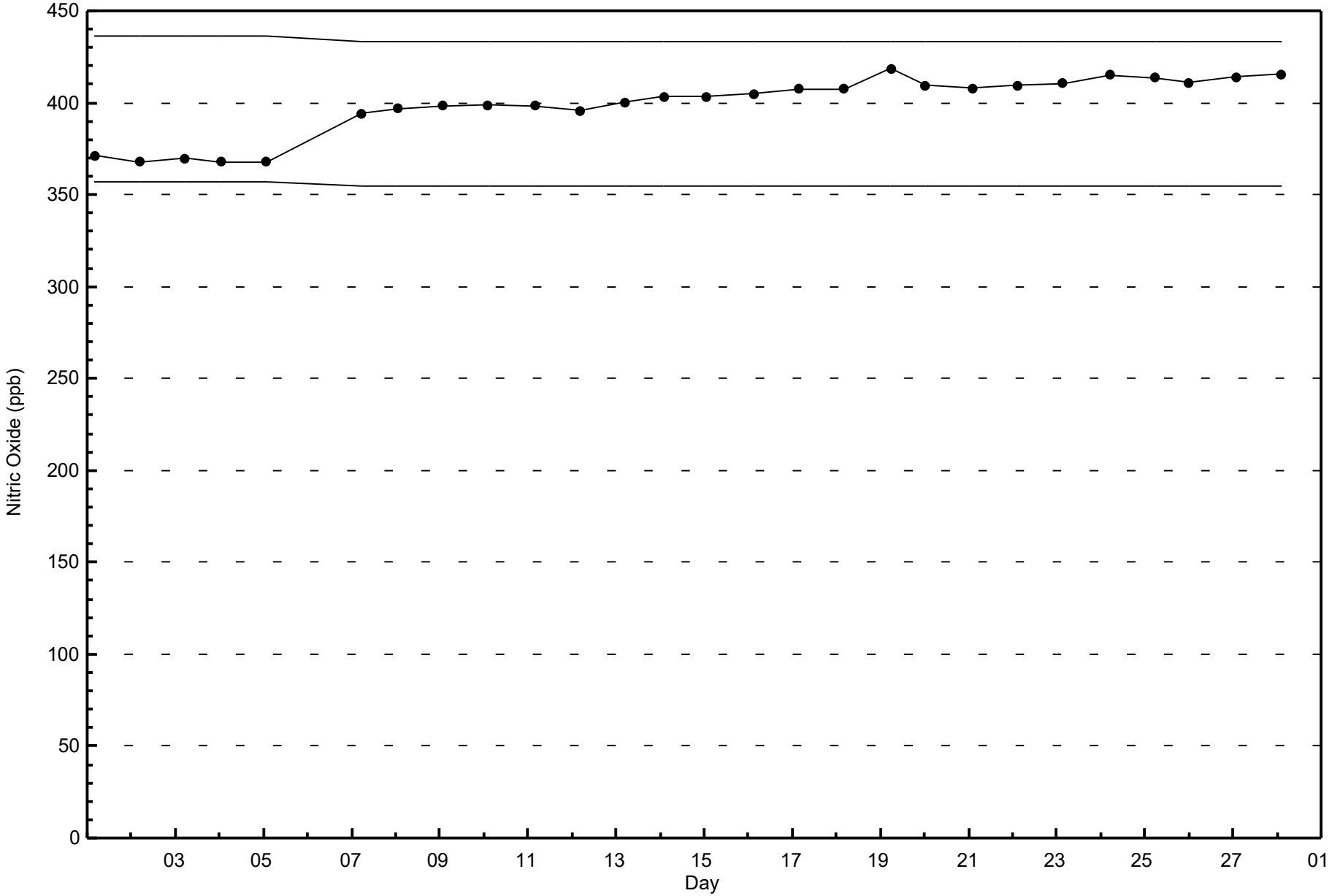


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Buffalo Viewpoint - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Buffalo Viewpoint - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 51.2 ppb on Feb 14 19:00
Maximum Daily Average: 21.8 ppb on Feb 14

Minimum Value: 0.3 ppb on Feb 4 17:00
Minimum Daily Average: 1.6 ppb on Feb 4
Maximum Diurnal Average: 11.9 ppb at hour 19
Minimum Diurnal Average: 5.3 ppb at hour 14
Monthly Average: 8.78 ppb
Percentiles: P_1 = 0.5 P_{10} = 1.0 Q_1 = 2.3 Median = 5.7 Q_3 = 10.9 P_{90} = 22.9 P_{99} = 40.3

Hours in Service:	672
Hours of Data:	616
Hours of Missing Data:	56
Hours of Calibration:	37
Percent Operational Time:	97.2

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.9	1.9	2.8	Z	5.8	7.6	3.5	8.6	14.2	1.8	1.8	1.5	1.1	1.2	1.8	1.1	0.8	2.0	0.7	0.7	0.5	0.5	0.5	0.6	2.7	14.2
2-Feb	0.7	0.7	0.9	0.8	Z	1.2	1.4	1.3	1.7	2.1	1.7	2.3	2.8	3.3	3.0	4.5	5.8	9.1	9.4	13.0	15.2	18.6	21.7	11.9	5.8	21.7
3-Feb	10.6	9.7	3.3	4.0	2.2	Z	4.6	5.6	4.3	2.3	1.4	2.5	4.2	6.9	10.7	11.5	10.6	8.1	8.4	5.3	2.6	2.5	1.4	1.6	5.4	11.5
4-Feb	Z	1.5	1.7	2.0	2.3	2.7	3.0	1.4	0.9	0.8	0.6	0.6	0.8	0.5	0.4	0.5	0.3	2.2	2.5	3.3	4.6	1.8	0.7	2.3	1.6	4.6
5-Feb	2.5	Z	2.2	1.9	0.8	1.6	2.2	C	C	C	C	C	C	C	M	M	M	M	M	M	M	M	M	M	--	2.5
6-Feb	M	M	M	M	M	M	M	M	M	C	C	C	9.2	2.2	1.3	1.3	1.4	1.1	1.2	2.1	1.4	1.4	2.3	24.0	--	24.0
7-Feb	21.5	26.0	25.4	20.4	17.0	Z	3.7	2.7	3.2	2.8	2.4	3.0	3.8	2.9	2.5	2.2	6.3	8.2	7.0	6.0	6.4	8.6	9.1	11.6	8.8	26.0
8-Feb	Z	24.8	21.9	25.4	31.6	29.9	27.6	32.7	32.0	30.1	25.3	21.7	14.4	12.1	10.9	6.6	6.7	3.6	4.8	5.4	4.5	3.8	3.5	3.2	16.6	32.7
9-Feb	3.9	Z	6.7	9.5	9.7	23.8	8.8	4.7	6.6	10.7	8.0	6.8	9.6	10.1	9.2	8.3	10.7	10.3	7.8	5.0	6.6	7.0	7.8	9.4	8.7	23.8
10-Feb	10.2	10.8	Z	16.8	24.5	29.2	34.7	37.4	34.8	32.4	29.6	24.6	15.2	9.3	2.5	2.8	3.6	6.2	6.6	6.4	10.9	11.9	13.5	13.8	16.9	37.4
11-Feb	12.6	14.4	15.0	Z	7.5	12.4	19.8	14.6	11.3	8.5	5.7	4.8	4.9	6.5	1.5	1.1	0.8	3.3	6.9	8.4	4.9	2.3	9.7	7.4	8.0	19.8
12-Feb	3.3	2.4	1.2	0.5	Z	0.6	0.5	0.5	0.7	0.7	8.3	10.9	6.3	2.7	0.6	1.1	1.9	2.7	2.3	1.1	0.8	0.7	0.6	0.5	2.2	10.9
13-Feb	0.4	0.5	0.7	0.8	0.6	Z	0.6	0.8	0.7	0.9	0.5	0.6	0.6	0.6	0.6	0.8	1.3	5.5	6.8	4.3	9.4	8.8	13.1	29.7	3.9	29.7
14-Feb	10.3	Z	8.4	9.7	6.6	5.4	7.0	7.0	9.0	9.1	8.8	16.3	17.4	13.3	13.5	20.3	30.6	35.4	51.2	49.6	47.0	45.8	45.2	33.8	21.8	51.2
15-Feb	33.2	Z	3.3	3.9	3.5	3.2	3.3	3.7	3.9	2.5	1.3	1.3	1.2	1.9	4.4	4.2	7.0	9.9	8.3	6.4	13.8	8.5	10.7	16.0	6.8	33.2
16-Feb	19.2	20.3	Z	23.1	23.0	19.4	24.0	24.9	23.8	23.3	23.6	15.0	14.1	15.0	14.4	14.2	9.2	7.7	7.6	5.2	5.4	4.8	5.7	7.7	15.2	24.9
17-Feb	4.5	2.3	2.5	Z	3.3	2.9	2.0	3.3	2.8	1.7	1.4	1.2	1.5	1.7	1.5	2.1	4.0	3.4	2.3	1.5	2.1	1.3	2.2	2.2	2.3	4.5
18-Feb	1.0	1.2	1.1	0.8	Z	1.2	1.2	1.0	1.1	0.8	0.7	0.7	0.6	0.7	1.0	1.2	1.8	3.6	5.8	7.1	7.4	7.4	9.6	8.6	2.9	9.6
19-Feb	7.9	7.5	7.0	6.8	7.7	Z	7.0	7.2	5.7	4.6	2.6	3.8	3.2	3.7	2.4	0.7	0.9	2.1	3.5	7.0	11.6	9.5	11.5	14.5	6.0	14.5
20-Feb	Z	13.6	8.9	11.5	10.2	9.5	9.6	22.9	17.8	13.8	10.8	10.0	12.5	10.7	16.8	23.8	33.7	41.9	34.6	15.6	8.9	18.2	20.0	17.4	17.1	41.9
21-Feb	10.6	Z	20.3	7.6	8.2	8.6	10.0	10.5	14.4	9.5	6.9	5.2	11.3	5.3	3.6	2.9	3.6	3.6	8.5	4.0	4.6	3.1	2.6	2.2	7.3	20.3
22-Feb	3.1	4.2	Z	4.1	5.0	7.7	7.6	7.8	5.7	4.9	5.0	5.9	6.0	7.4	10.6	14.0	16.3	18.7	21.5	21.4	23.3	20.5	3.1	1.1	9.8	23.3
23-Feb	1.1	4.4	0.7	Z	1.1	0.9	0.8	1.4	2.9	2.7	1.4	1.2	4.4	4.3	10.1	12.4	10.5	9.0	9.3	11.0	15.6	14.4	30.5	38.3	8.2	38.3
24-Feb	34.2	24.1	25.6	32.4	Z	23.5	24.3	28.4	22.7	13.9	8.5	4.5	4.1	3.9	5.4	8.6	15.5	22.8	37.2	37.4	34.0	24.3	13.1	11.3	20.0	37.4
25-Feb	4.3	2.3	6.6	7.3	5.9	Z	26.7	25.6	15.6	9.5	4.3	2.9	4.7	6.2	5.8	6.6	9.2	21.2	37.1	40.6	26.8	7.3	4.3	4.7	12.4	40.6
26-Feb	Z	3.1	3.8	5.7	6.7	9.0	10.2	8.9	5.6	5.6	4.1	2.1	3.3	3.9	4.1	5.3	4.7	5.9	5.2	5.1	3.8	5.6	4.4	4.7	5.3	10.2
27-Feb	5.2	Z	2.2	2.2	2.8	2.1	4.9	6.7	3.8	1.6	1.8	2.6	2.1	3.5	3.3	7.8	10.6	11.6	19.9	20.0	17.9	14.0	15.7	20.1	7.9	20.1
28-Feb	22.2	20.2	Z	16.0	15.3	14.7	19.5	17.2	10.9	8.9	5.6	6.0	3.9	3.6	2.4	2.7	2.8	3.4	5.4	3.8	5.1	6.8	6.9	6.7	9.1	22.2
	9.8	9.3	7.5	9.3	8.8	9.9	9.9	11.0	9.9	7.9	6.6	6.1	6.0	5.3	5.3	6.2	7.8	9.7	11.9	11.0	10.9	9.6	10.0	11.3	Diurnal Average	
	34.2	26.0	25.6	32.4	31.6	29.9	34.7	37.4	34.8	32.4	29.6	24.6	17.4	15.0	16.8	23.8	33.7	41.9	51.2	49.6	47.0	45.8	45.2	38.3	Diurnal Maximum	

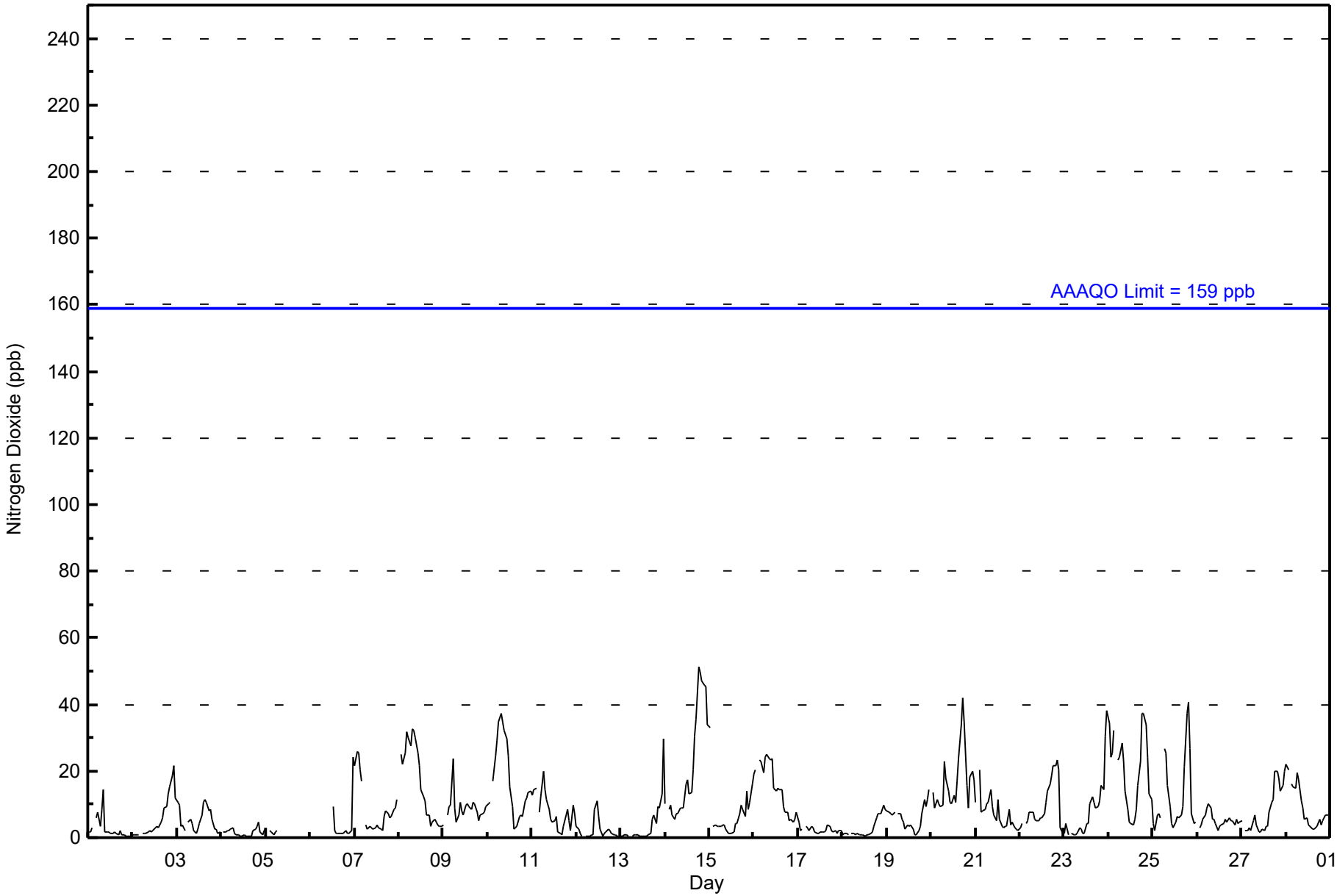
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Buffalo Viewpoint - February 2026



Nitrogen Dioxide (NO_2) - ppb
Buffalo Viewpoint - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	543	88.15	88.15
21 - 40	66	10.71	98.86
11 - 80	7	1.14	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 616

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Buffalo Viewpoint - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	195	60	8	4	4	18	59	90	40	7	10	22	10	5	5	6	543
21 - 40	18	3	3	1	1	0	3	11	2	1	0	2	1	1	9	10	66
11 - 80	3	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	7
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	216	64	11	5	5	18	62	101	42	8	10	24	11	7	15	17	616

Total Number of Valid Hours: 616

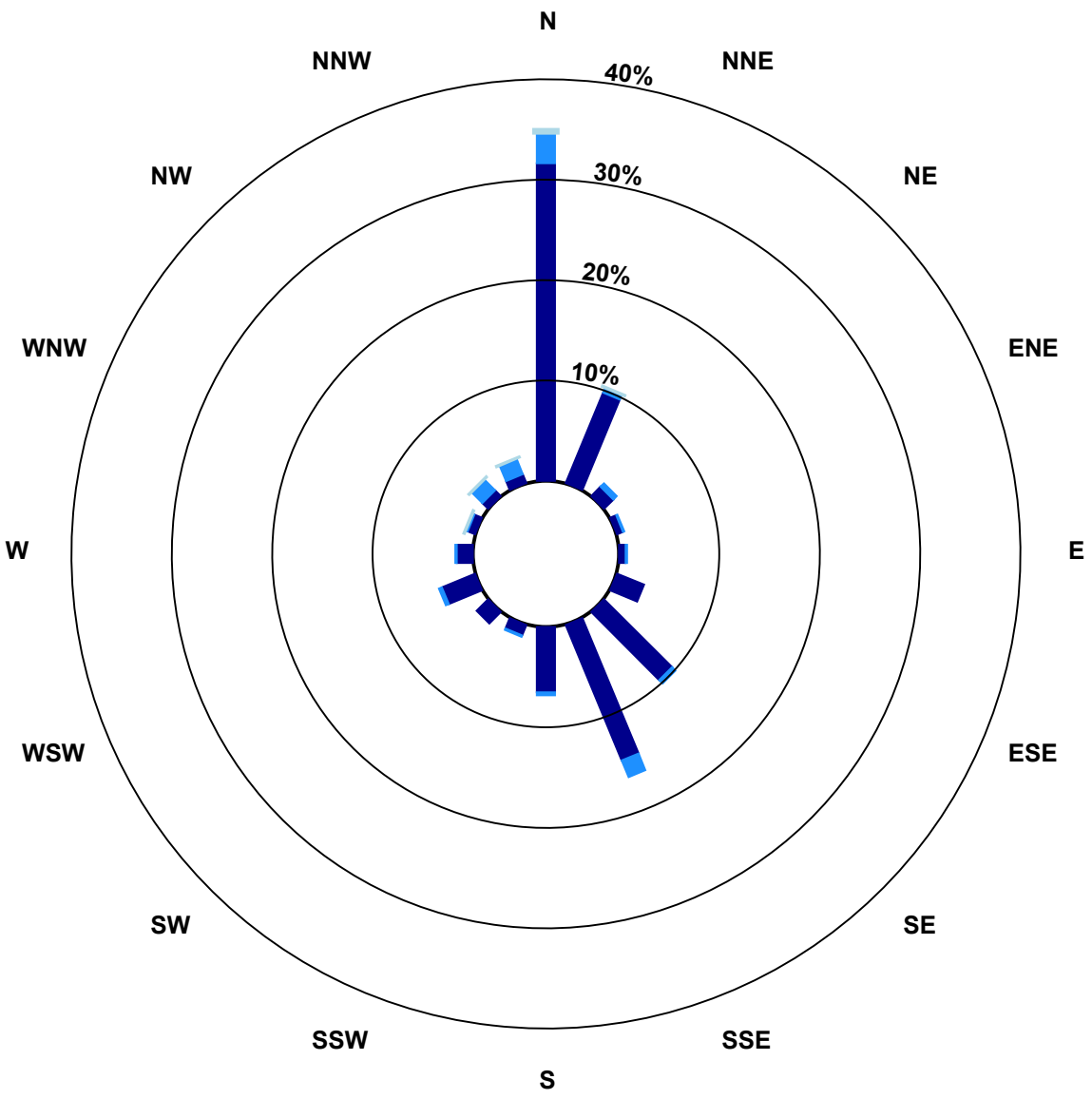
Total Number of Hours: 672

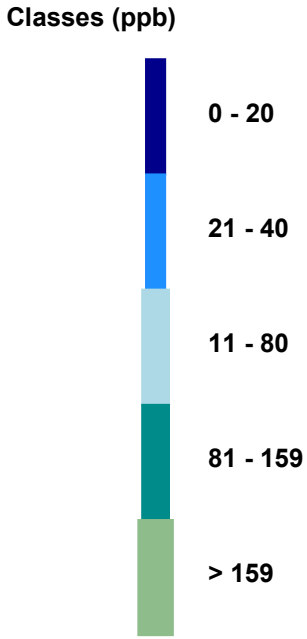
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Buffalo Viewpoint





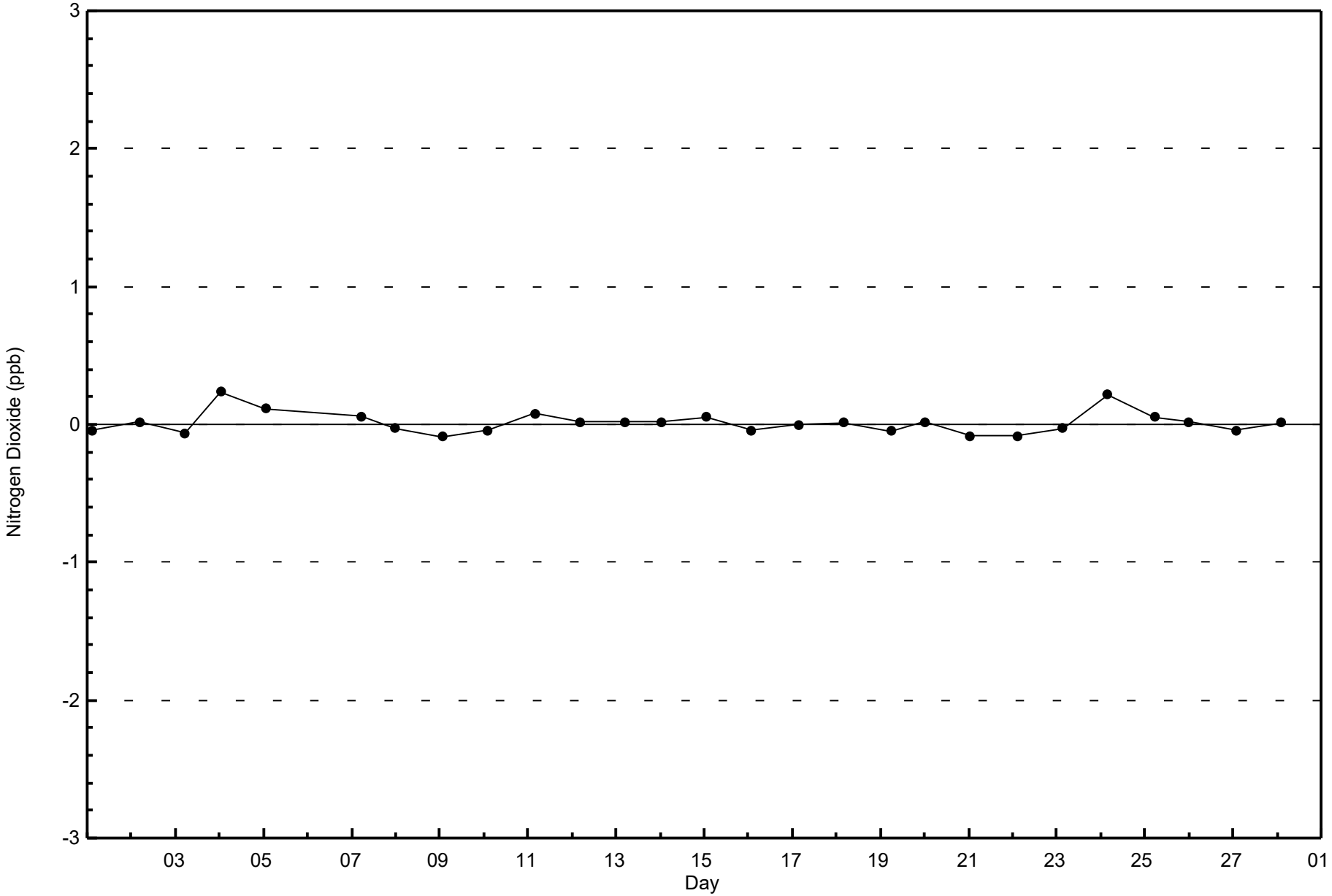
Total Number of Valid Hours: 616

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Buffalo Viewpoint - February 2026

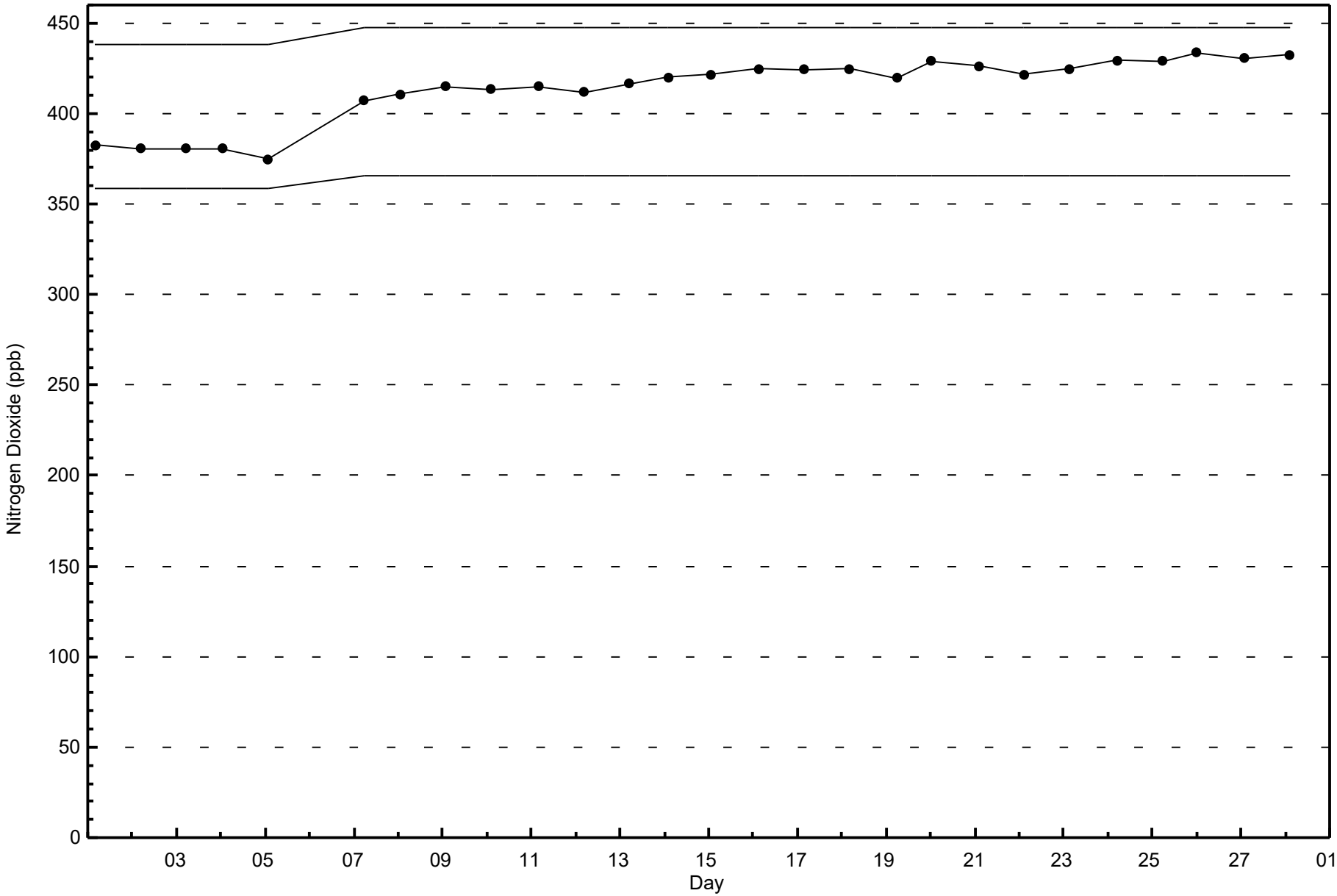


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Buffalo Viewpoint - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Buffalo Viewpoint - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 147.2 ppb on Feb 14 19:00 Maximum Daily Average: 40.9 ppb on Feb 14

Minimum Value: 0.3 ppb on Feb 4 17:00
Maximum Diurnal Average: 19.2 ppb at hour 19
Monthly Average: 13.13 ppb

Minimum Daily Average: 1.7 ppb on Feb 4
Minimum Diurnal Average: 9.3 ppb at hour 15
Percentiles: P_1 = 0.5 P_{10} = 1.3 Q_1 = 2.8 Median = 7.0 Q_3 = 14.8 P_{90} = 31.7 P_{99} = 106.3

Hours in Service:	672
Hours of Data:	616
Hours of Missing Data:	56
Hours of Calibration:	37
Percent Operational Time:	97.2

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.9	1.9	2.8	Z	6.1	7.9	3.5	9.0	14.8	2.0	2.0	1.6	1.4	1.4	2.0	1.2	0.9	2.0	0.7	0.7	0.5	0.5	0.5	0.7	2.9	14.8
2-Feb	0.8	0.8	0.9	1.0	Z	1.6	1.6	1.3	1.7	2.2	2.0	2.8	3.3	4.2	3.6	5.1	6.1	9.5	9.8	14.0	16.6	34.7	28.8	12.5	7.2	34.7
3-Feb	11.1	10.3	3.3	4.0	2.2	Z	4.9	5.8	4.5	2.3	1.4	2.9	5.2	8.6	13.2	13.6	11.6	8.3	8.6	5.5	2.6	2.6	1.4	1.6	5.9	13.6
4-Feb	Z	1.8	1.8	2.2	2.4	2.7	3.1	1.4	0.9	0.9	0.7	0.7	1.1	0.5	0.5	0.6	0.3	2.3	2.7	3.6	4.9	1.9	0.7	2.4	1.7	4.9
5-Feb	2.6	Z	2.7	1.9	0.8	1.6	2.2	C	C	C	C	C	C	C	M	M	M	M	M	M	M	M	M	M	--	2.7
6-Feb	M	M	M	M	M	M	M	M	M	C	C	C	11.5	2.5	1.4	1.4	1.4	1.1	1.2	2.1	1.4	1.4	2.3	66.4	--	66.4
7-Feb	48.5	72.5	42.0	21.4	17.7	Z	3.8	2.8	3.5	3.2	2.9	3.9	4.9	3.7	3.2	2.5	6.7	8.3	7.1	6.1	6.5	8.7	9.2	11.7	13.1	72.5
8-Feb	Z	25.2	22.1	26.8	34.9	31.5	28.8	49.2	77.0	69.3	48.8	37.6	21.0	17.2	14.6	7.9	7.4	3.6	4.8	5.4	4.5	3.8	3.5	3.2	23.8	77.0
9-Feb	3.9	Z	6.7	9.6	9.9	26.2	9.1	4.8	7.1	12.9	10.4	9.5	14.0	14.1	12.6	9.8	11.7	10.5	7.8	5.0	6.6	7.0	7.8	9.4	9.9	26.2
10-Feb	10.2	10.9	Z	16.9	24.7	29.4	35.5	42.1	46.8	58.7	64.2	47.0	24.7	14.1	3.4	3.5	4.0	6.3	6.6	6.4	11.2	14.1	13.6	14.1	22.1	64.2
11-Feb	12.9	15.1	17.7	Z	7.6	13.0	20.7	14.9	12.5	10.7	8.0	6.9	7.0	9.6	2.0	1.3	0.9	3.4	7.0	8.6	4.9	2.3	9.8	7.5	8.9	20.7
12-Feb	3.4	2.4	1.3	0.6	Z	0.7	0.6	0.6	0.8	0.8	11.9	17.1	9.4	3.5	0.7	1.2	2.0	2.8	2.3	1.1	0.8	0.7	0.6	0.5	2.9	17.1
13-Feb	0.4	0.5	0.8	0.8	0.6	Z	0.6	0.8	0.7	1.0	0.6	0.7	0.8	0.7	0.7	0.9	1.4	5.5	6.8	4.3	9.4	8.9	14.4	37.2	4.3	37.2
14-Feb	10.3	Z	8.4	9.8	6.6	5.4	7.0	7.0	9.8	11.4	12.9	26.8	29.1	20.1	18.7	26.8	36.4	40.6	147.2	118.8	113.8	106.8	113.9	53.4	40.9	147.2
15-Feb	53.2	Z	3.3	3.9	3.5	3.2	3.3	3.7	4.2	2.9	1.6	1.7	1.7	2.8	6.6	5.8	8.3	10.5	8.8	6.6	14.5	8.6	10.8	16.5	8.1	53.2
16-Feb	19.6	20.6	Z	24.2	24.0	21.2	29.6	33.1	43.0	66.2	83.6	38.6	35.3	36.2	34.1	31.9	14.4	8.9	8.7	6.0	6.0	5.4	6.2	8.4	26.3	83.6
17-Feb	4.9	2.5	2.8	Z	3.6	3.3	2.5	4.0	3.7	2.7	2.4	2.2	2.8	2.8	2.3	2.8	4.7	3.7	2.7	1.8	2.4	1.5	2.4	2.5	2.9	4.9
18-Feb	1.4	2.0	2.3	1.9	Z	2.7	2.7	2.3	2.7	3.0	2.8	3.1	2.8	2.9	4.4	4.7	5.7	7.4	10.8	12.8	14.1	14.6	27.3	25.8	7.0	27.3
19-Feb	20.9	18.1	14.3	11.9	15.0	Z	14.3	16.3	16.0	17.5	8.8	14.8	10.9	10.0	5.0	1.0	1.1	2.2	3.5	7.0	11.7	9.6	11.6	14.6	11.1	20.9
20-Feb	Z	13.7	9.0	11.7	10.2	9.6	9.7	27.2	26.5	24.8	20.6	19.9	25.0	19.0	30.4	40.9	56.8	67.2	47.4	15.9	9.1	18.6	20.5	17.8	24.0	67.2
21-Feb	10.6	Z	21.4	7.8	8.2	8.6	10.1	10.8	18.6	14.5	11.9	8.5	21.9	9.0	5.7	3.9	4.3	3.9	8.7	4.2	4.9	3.4	2.9	2.3	9.0	21.9
22-Feb	3.3	4.4	Z	4.3	5.3	8.8	9.2	10.5	12.5	15.6	17.0	21.2	22.5	28.9	34.4	39.6	42.2	43.9	53.0	48.0	46.7	28.1	3.1	1.1	21.9	53.0
23-Feb	1.1	4.5	0.7	Z	1.1	0.9	0.8	1.4	3.3	3.5	2.2	1.9	7.7	8.0	16.1	17.1	12.9	9.7	9.4	11.0	15.7	14.5	111.1	131.4	16.8	131.4
24-Feb	103.2	34.6	37.3	59.8	Z	33.0	38.1	47.4	41.2	30.4	18.4	9.2	8.3	7.3	9.8	14.0	22.3	27.4	53.6	51.3	39.9	24.7	13.2	11.4	32.0	103.2
25-Feb	4.3	2.3	6.6	7.3	6.0	Z	28.1	28.4	20.0	13.6	6.2	4.8	7.6	9.0	8.1	8.5	10.8	23.0	61.2	79.3	27.1	7.3	4.3	4.7	16.5	79.3
26-Feb	Z	3.1	3.8	5.7	6.7	9.0	10.3	9.3	6.3	6.8	5.3	3.3	5.3	6.2	5.7	7.4	5.7	6.3	5.3	5.2	3.8	5.6	4.4	4.7	5.9	10.3
27-Feb	5.2	Z	2.2	2.3	2.8	2.1	5.0	7.1	4.8	2.6	3.6	5.8	5.1	8.4	7.1	16.2	18.3	14.7	28.4	23.3	18.7	14.1	17.0	22.4	10.3	28.4
28-Feb	31.6	23.5	Z	17.8	16.4	16.0	20.9	19.9	18.8	19.9	12.7	14.1	8.2	6.8	4.0	4.1	3.6	3.7	5.5	3.9	5.1	6.9	7.0	6.7	12.0	31.6
	15.9	12.9	9.3	11.0	9.4	10.8	11.3	13.9	15.5	15.4	14.0	11.8	11.1	9.5	9.3	10.1	11.2	12.5	19.2	17.0	14.9	13.2	16.6	18.2	Diurnal Average	
	103.2	72.5	42.0	59.8	34.9	33.0	38.1	49.2	77.0	69.3	83.6	47.0	35.3	36.2	34.4	40.9	56.8	67.2	147.2	118.8	113.8	106.8	113.9	131.4	Diurnal Maximum	

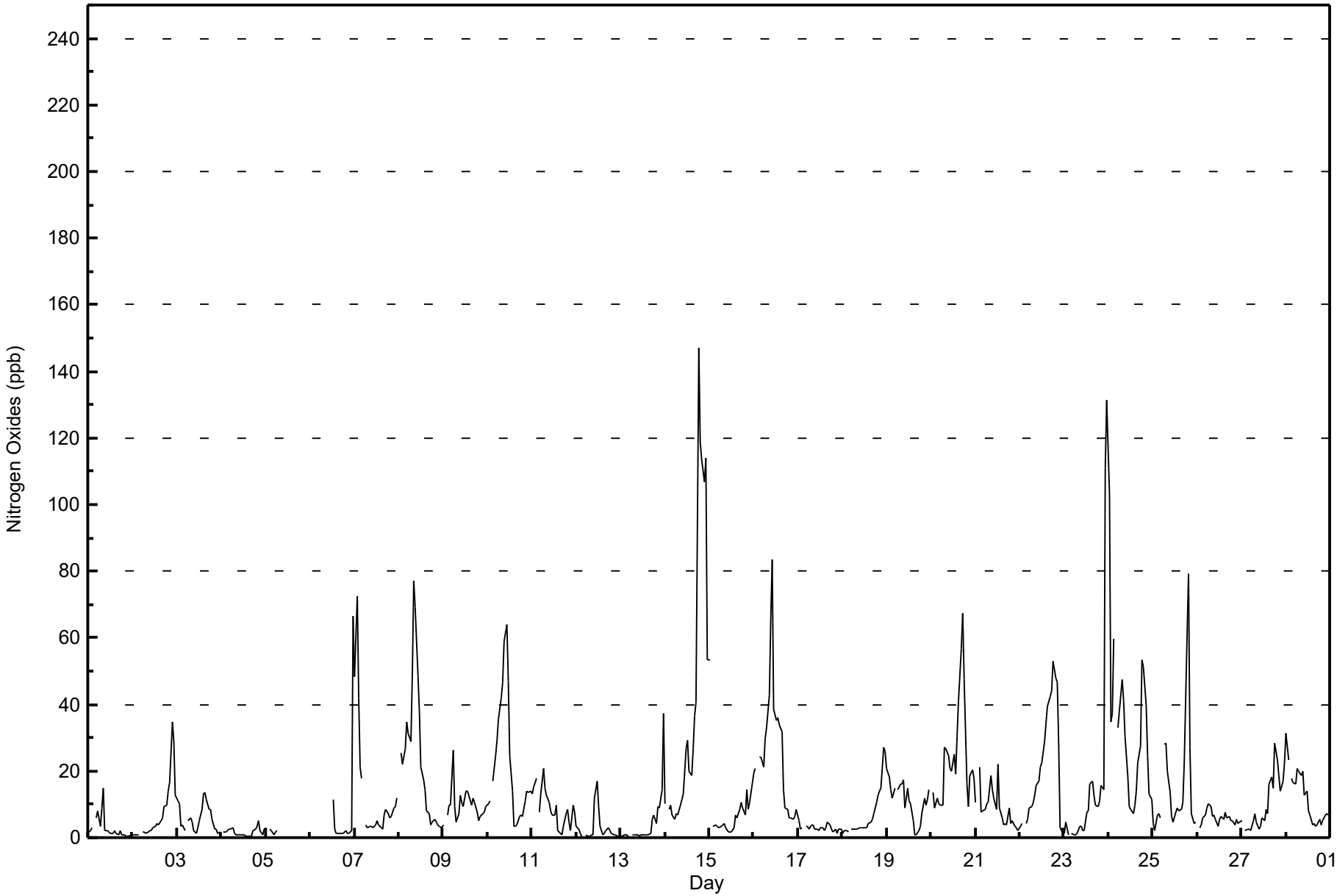
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Buffalo Viewpoint - February 2026



Nitrogen Oxides (NO_X) - ppb
Buffalo Viewpoint - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	504	81.82	81.82
21 - 40	69	11.20	93.02
11 - 80	34	5.52	98.54
81 - 159	9	1.46	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 616

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Buffalo Viewpoint - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	179	54	8	4	4	16	57	88	34	7	9	22	9	5	4	4	504
21 - 40	25	6	2	1	1	2	4	9	7	1	1	0	1	0	1	8	69
11 - 80	10	3	1	0	0	0	1	4	1	0	0	1	1	0	9	3	34
81 - 159	2	1	0	0	0	0	0	0	0	0	0	1	0	2	1	2	9
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	216	64	11	5	5	18	62	101	42	8	10	24	11	7	15	17	616

Total Number of Valid Hours: 616

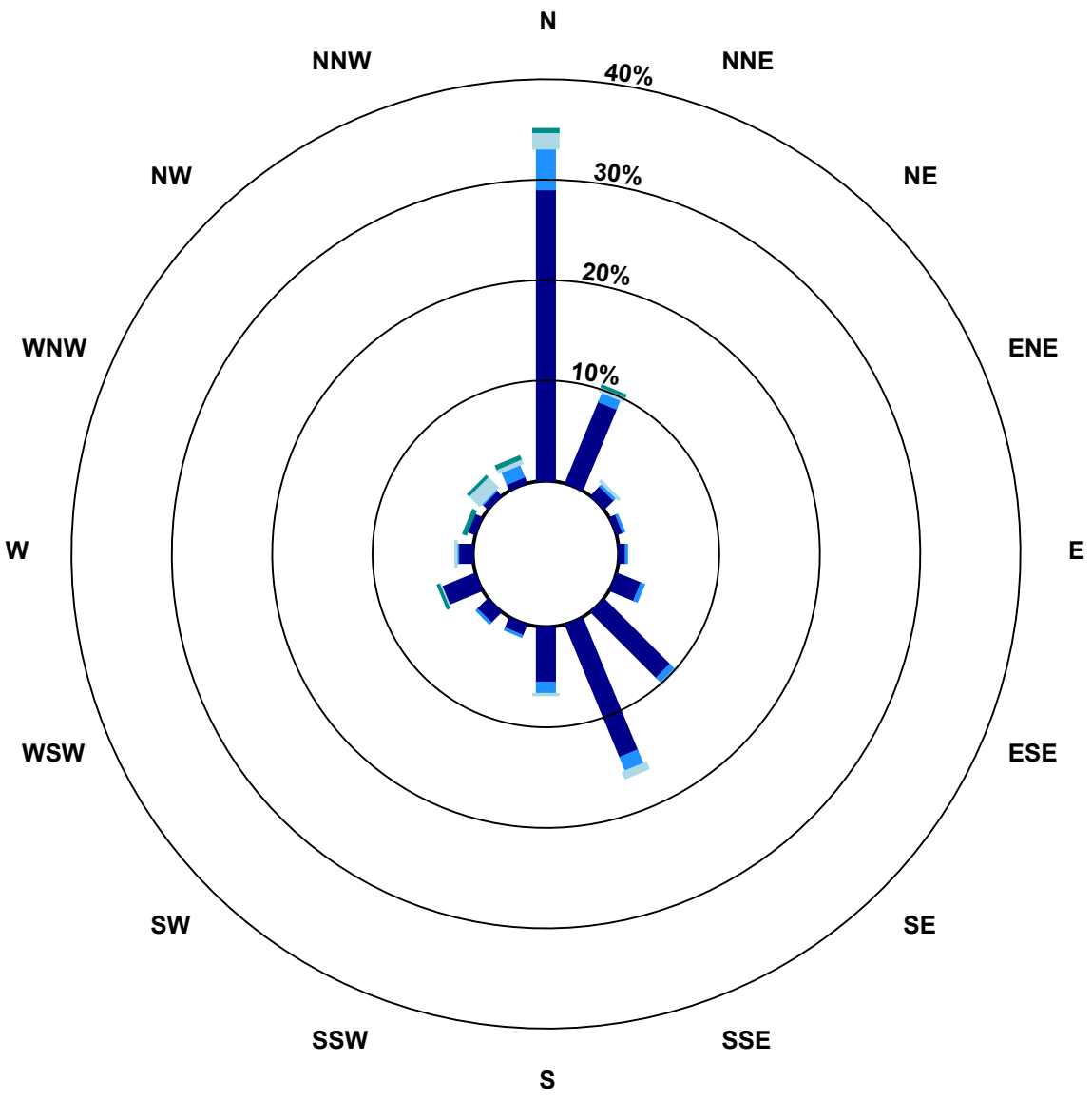
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Buffalo Viewpoint



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

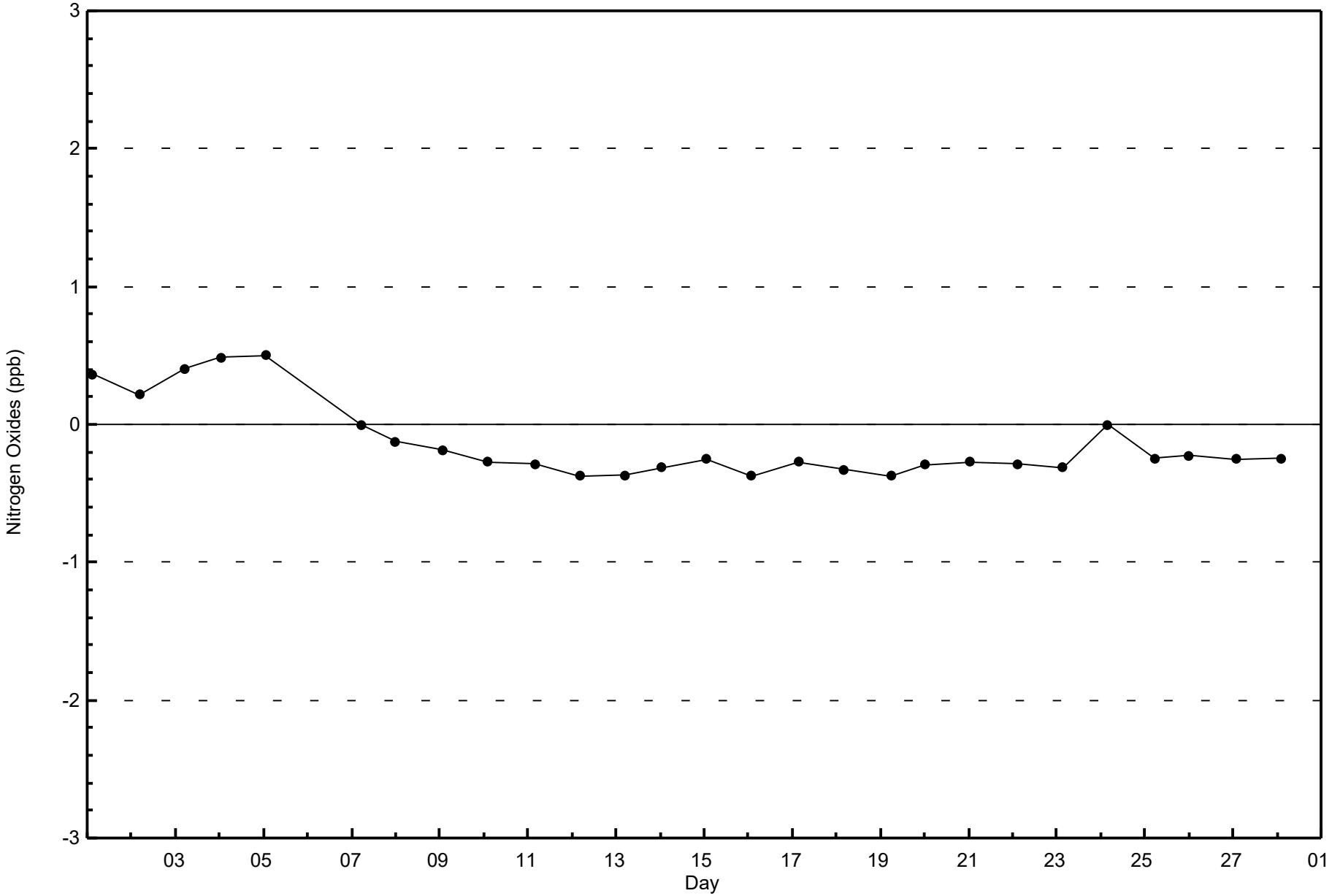
Total Number of Valid Hours: 616

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Buffalo Viewpoint - February 2026

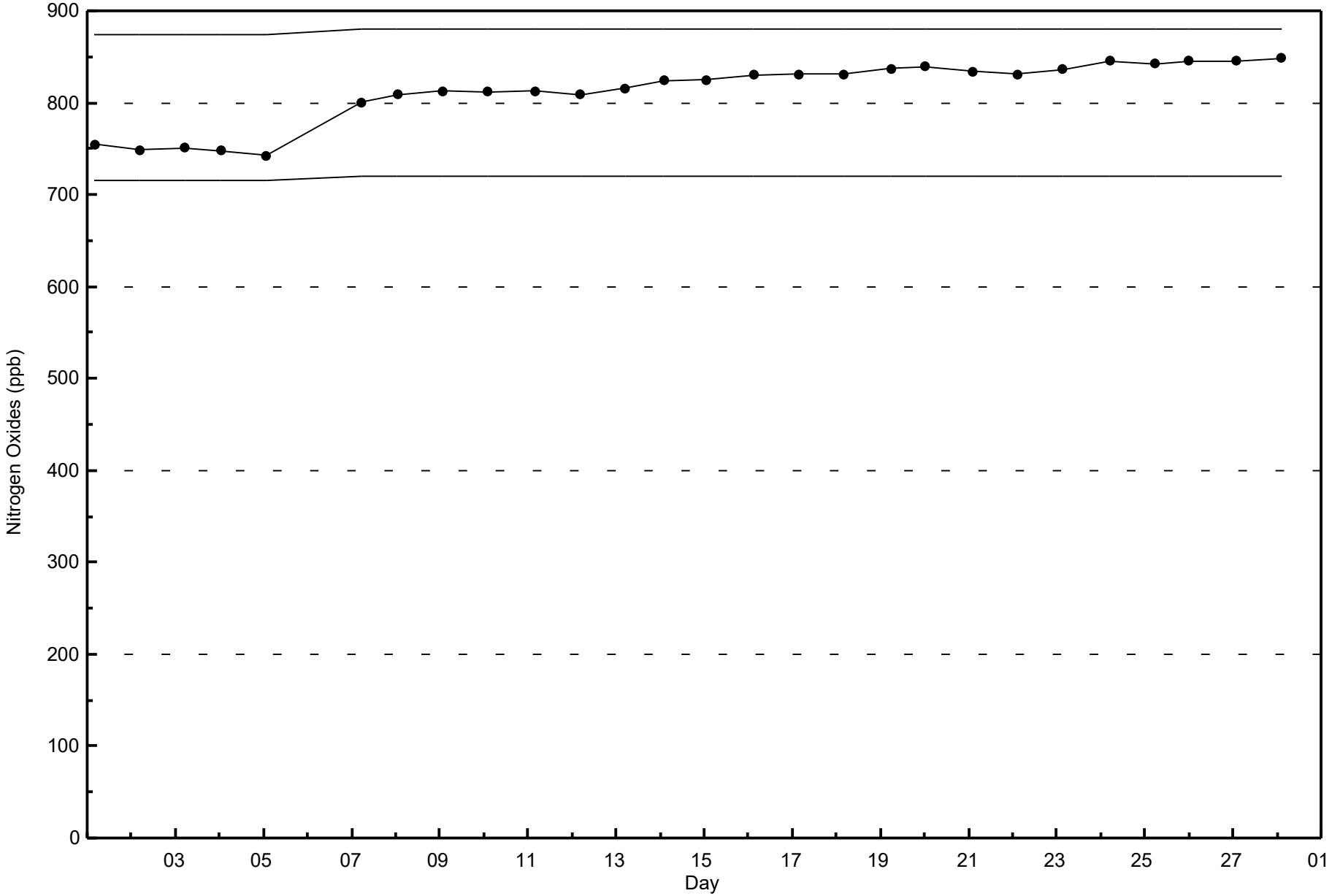


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Buffalo Viewpoint - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ozone (O_3) - ppb

Buffalo Viewpoint - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 47.2 ppb on Feb 13 00:00 Maximum Daily Average: 40.8 ppb on Feb 13

Minimum Value: 0.0 ppb on Feb 19 02:00 Minimum Daily Average: 2.6 ppb on Feb 18
Maximum Diurnal Average: 26.4 ppb at hour 15 Minimum Diurnal Average: 16.3 ppb at hour 8
Monthly Average: 20.86 ppb Percentiles: P_1 = 0.3 P_{10} = 3.1 Q_1 = 11.6 Median = 23.3 Q_3 = 28.7 P_{90} = 33.3 P_{99} = 46.3

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	31
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	36.0	35.7	Z	36.0	32.3	28.9	32.6	26.0	23.2	35.6	35.4	36.2	36.3	35.9	35.5	35.9	36.5	35.5	36.8	36.5	36.9	36.8	36.3	35.7	34.5	36.9
2-Feb	35.4	35.0	34.7	Z	33.2	32.9	32.2	31.3	30.0	29.7	29.7	29.0	28.0	26.9	26.2	24.0	21.9	17.6	15.4	8.7	7.4	5.3	3.2	13.4	24.0	35.4
3-Feb	12.3	14.5	23.8	24.2	Z	25.1	21.9	21.8	25.9	30.2	32.4	31.0	29.1	25.8	21.5	18.0	17.4	17.5	15.7	18.3	21.9	22.5	25.8	26.4	22.7	32.4
4-Feb	25.9	25.6	24.8	25.0	25.9	Z	23.7	30.9	30.6	30.8	32.0	33.0	32.5	33.1	33.6	34.0	34.0	30.0	26.1	23.7	22.5	27.1	29.0	27.3	28.7	34.0
5-Feb	Z	27.8	28.7	29.7	32.7	31.9	30.6	29.9	29.6	30.5	33.3	DF	DF	30.5	30.4	29.3	30.1	31.1	30.9	27.6	28.1	27.7	27.8	29.7	29.9	33.3
6-Feb	29.6	29.1	26.7	Z	32.3	33.2	22.8	9.7	12.1	25.8	29.9	26.6	23.2	29.0	29.3	29.2	29.0	28.0	26.5	26.0	26.2	25.4	23.1	5.0	25.1	33.2
7-Feb	2.4	1.0	1.3	3.9	Z	15.1	27.3	29.8	29.3	30.3	31.4	30.4	30.6	30.9	31.4	31.5	27.1	25.0	25.9	26.4	26.1	23.4	22.9	20.0	22.8	31.5
8-Feb	15.3	7.6	10.1	7.6	1.6	Z	4.4	0.8	1.0	2.4	6.3	9.5	18.1	20.7	22.0	25.3	24.9	28.0	27.0	26.3	27.0	27.7	27.9	27.2	16.0	28.0
9-Feb	Z	24.9	21.4	18.8	18.1	4.2	17.8	23.2	22.1	19.5	22.7	24.9	23.6	24.6	26.1	26.9	25.5	25.8	27.6	30.7	29.1	29.0	28.6	27.1	23.6	30.7
10-Feb	26.7	Z	23.9	19.4	11.4	7.1	2.9	1.0	3.6	6.3	9.4	12.1	18.0	21.6	25.6	24.9	23.6	20.5	18.0	16.8	11.0	9.3	10.2	9.7	14.5	26.7
11-Feb	9.5	8.1	Z	6.0	15.1	14.3	9.9	11.6	15.6	20.0	24.8	28.4	29.4	28.7	38.7	40.2	39.3	33.9	26.5	24.2	27.3	30.5	23.7	25.5	23.1	40.2
12-Feb	28.3	30.3	39.7	Z	41.8	41.2	41.3	40.9	40.2	40.2	31.3	29.0	33.9	38.2	41.6	41.8	41.3	40.0	41.0	43.8	44.8	46.3	46.4	47.2	39.6	47.2
13-Feb	47.1	47.1	46.7	46.9	Z	46.4	45.6	C	C	C	44.4	44.7	45.3	45.8	46.0	45.9	45.3	40.5	38.7	40.4	28.9	33.1	27.7	8.7	40.8	47.1
14-Feb	22.9	18.4	20.7	18.9	27.3	28.7	Z	29.9	24.7	26.4	29.3	25.4	24.3	30.2	30.3	25.9	20.3	11.6	1.2	1.2	1.3	1.2	1.2	1.2	18.4	30.3
15-Feb	Z	17.4	26.1	24.4	25.1	26.0	27.3	27.0	27.1	29.0	30.7	30.4	29.6	28.4	26.0	26.0	23.5	19.9	20.9	22.5	15.0	19.0	16.8	11.3	23.9	30.7
16-Feb	8.3	Z	2.3	3.5	4.4	5.4	1.8	1.1	4.3	6.0	6.9	13.6	14.9	14.3	12.1	10.3	11.5	11.4	11.1	13.1	13.1	13.3	11.9	9.5	8.9	14.9
17-Feb	12.7	16.0	Z	14.3	16.4	14.6	14.6	13.6	14.8	16.6	18.5	20.2	21.8	23.0	24.9	26.2	23.3	23.4	22.9	21.6	19.2	19.3	13.8	10.1	18.3	26.2
18-Feb	6.7	3.8	2.2	Z	2.3	2.0	2.0	2.3	2.5	3.3	4.0	3.9	4.2	4.4	4.4	3.9	3.5	2.2	0.8	0.3	0.2	0.2	0.2	0.2	2.6	6.7
19-Feb	0.1	0.0	0.0	0.3	Z	0.5	0.3	0.5	2.2	4.7	9.3	9.4	11.4	14.8	21.4	29.5	28.2	26.5	25.5	23.2	19.0	21.9	21.3	18.7	12.6	29.5
20-Feb	20.1	19.4	21.4	18.7	20.7	Z	18.5	9.9	12.0	15.9	22.1	24.2	23.2	26.0	22.5	18.2	9.4	2.7	6.8	18.7	21.6	11.2	8.1	9.6	16.6	26.0
21-Feb	Z	12.8	7.1	16.6	15.4	16.1	15.1	13.5	9.9	13.8	16.7	21.5	16.3	23.5	25.8	26.6	26.8	26.1	18.6	21.8	17.8	14.9	13.1	12.5	17.5	26.8
22-Feb	10.6	Z	8.7	8.9	6.6	3.1	2.2	1.5	3.4	4.6	5.2	5.8	6.9	7.2	6.2	4.4	2.8	1.0	0.3	0.3	0.5	6.4	28.4	30.1	6.7	30.1
23-Feb	29.5	25.6	Z	28.1	27.5	27.5	27.3	26.2	24.7	25.5	26.8	27.9	25.0	26.0	23.4	23.7	24.7	23.2	22.1	20.9	16.1	15.3	6.0	0.8	22.8	29.5
24-Feb	1.1	2.2	3.0	Z	1.1	2.0	2.0	1.4	7.2	12.0	18.2	21.9	23.0	23.8	23.2	22.1	17.5	12.0	1.4	0.7	3.2	11.3	20.8	21.5	11.0	23.8
25-Feb	27.9	30.6	26.6	25.1	Z	4.9	6.2	6.5	15.3	22.0	27.9	29.9	28.9	28.1	29.4	29.1	26.8	16.2	2.2	1.6	10.8	25.4	27.4	27.3	20.7	30.6
26-Feb	26.5	28.0	27.7	25.3	24.6	Z	21.0	22.0	25.2	25.2	26.4	28.8	29.3	29.9	29.8	28.5	27.8	26.2	27.0	25.7	25.9	23.2	24.4	25.0	26.2	29.9
27-Feb	Z	29.8	31.5	31.2	29.0	28.0	24.4	21.5	22.2	21.7	20.4	19.8	19.7	19.7	21.4	18.0	14.3	11.5	3.2	3.1	4.5	7.0	5.4	1.2	17.8	31.5
28-Feb	0.3	Z	0.6	3.7	3.7	4.4	3.0	5.0	11.7	14.8	20.6	21.6	25.1	27.2	30.4	30.7	30.3	29.6	27.5	28.6	26.6	24.6	24.5	25.2	18.2	30.7
	18.9	20.5	19.2	19.0	19.5	18.5	17.7	16.3	17.4	20.1	23.1	23.7	24.1	25.7	26.4	26.1	24.5	22.0	19.6	19.7	19.0	19.9	19.8	18.1	Diurnal Average	
	47.1	47.1	46.7	46.9	41.8	46.4	45.6	40.9	40.2	40.2	44.4	44.7	45.3	45.8	46.0	45.9	45.3	40.5	41.0	43.8	44.8	46.3	46.4	47.2	Diurnal Maximum	

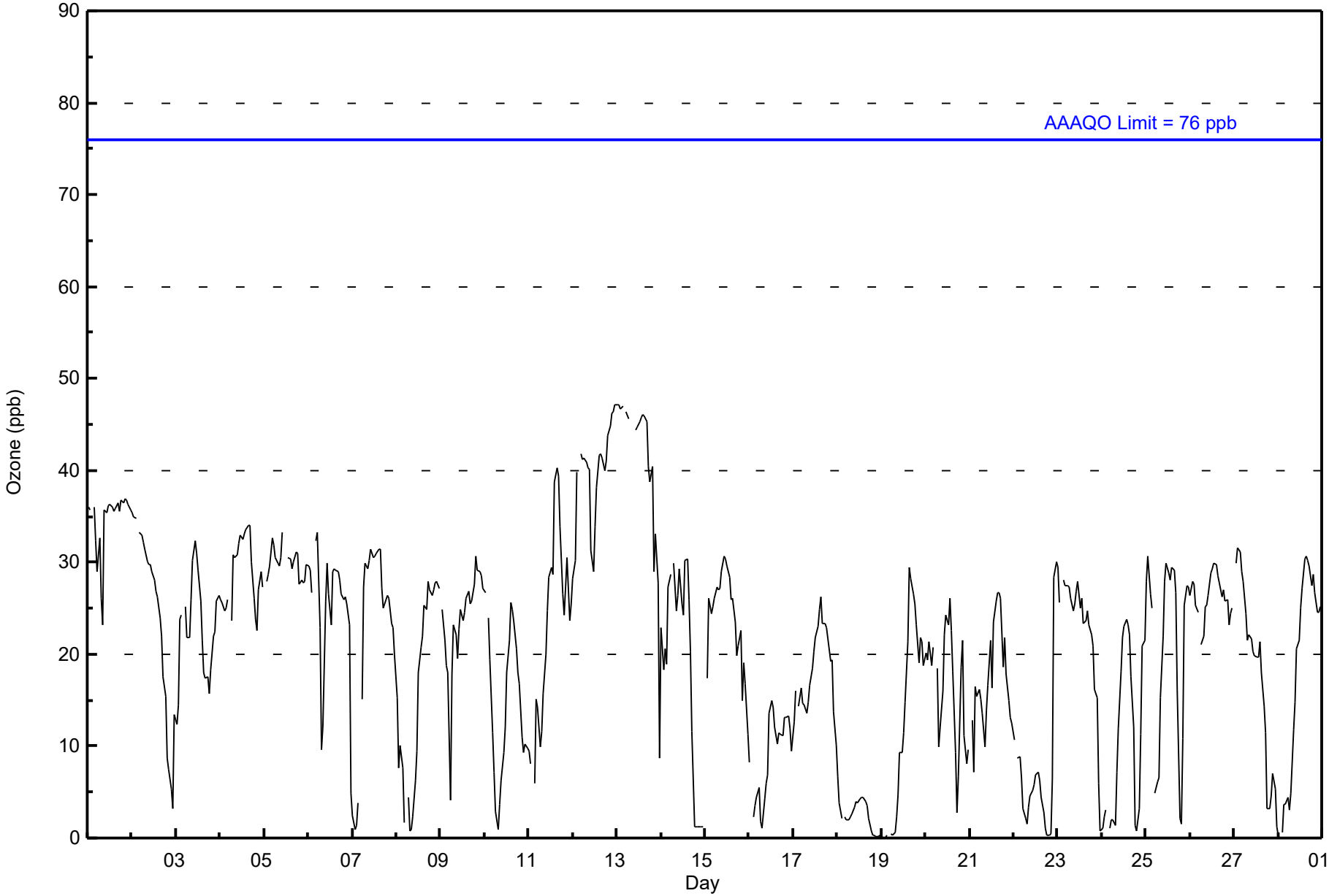
Z - zerospan C - Calibration DF - DAS Failure
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 76 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ozone (O_3) - ppb

Buffalo Viewpoint - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	260	40.69	40.69
21 - 50	379	59.31	100.00
51 - 82	0	0.00	100.00
> 83	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	116	23	6	2	3	3	15	34	20	4	1	2	2	4	11	14	260
21 - 50	106	52	8	4	4	18	51	65	22	4	8	20	10	2	3	2	379
51 - 82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	222	75	14	6	7	21	66	99	42	8	9	22	12	6	14	16	639

Total Number of Valid Hours: 639

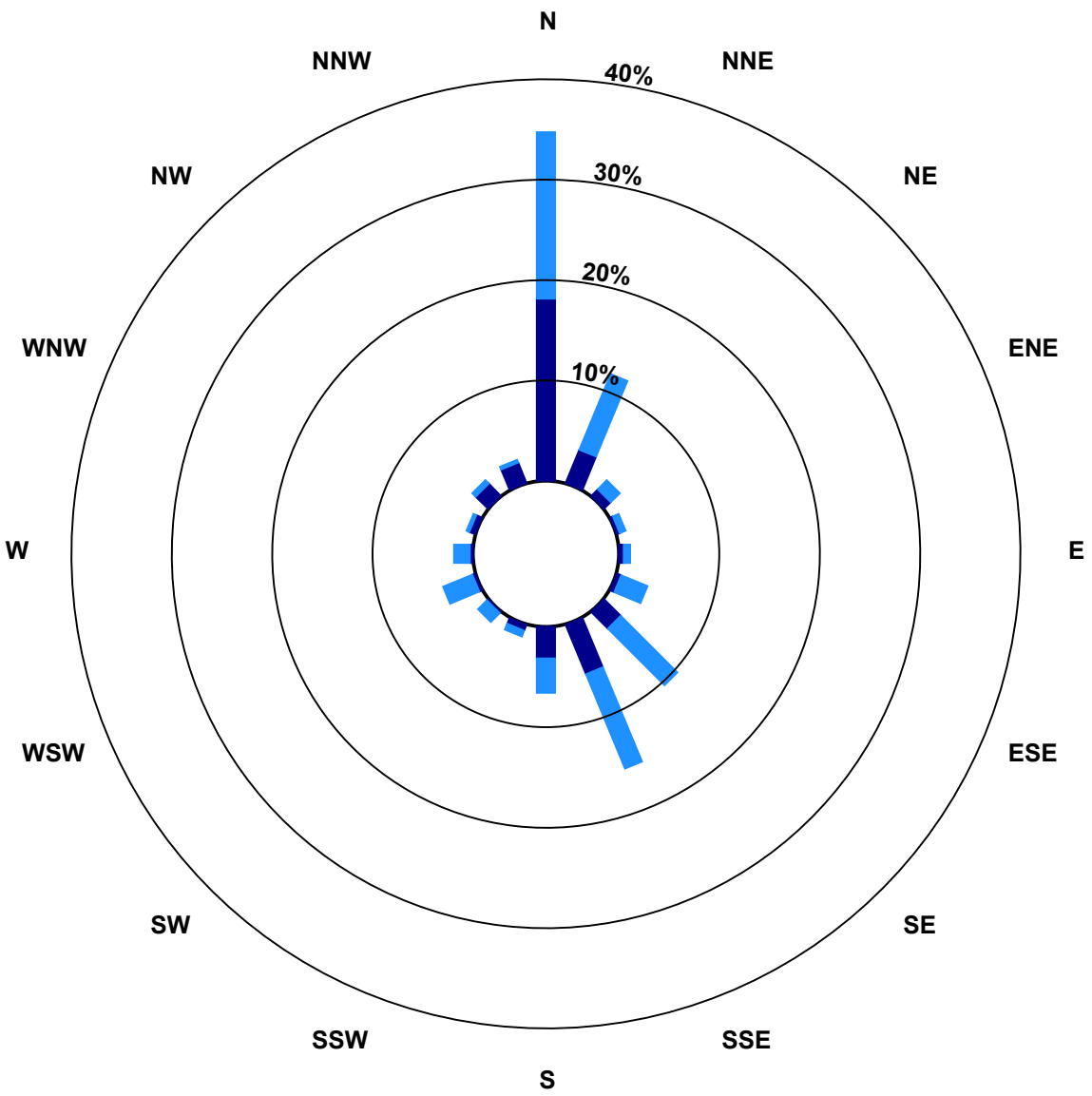
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Ozone (O_3) - ppb

Buffalo Viewpoint



Classes (ppb)

- 0 - 20
- 21 - 50
- 51 - 82
- > 83

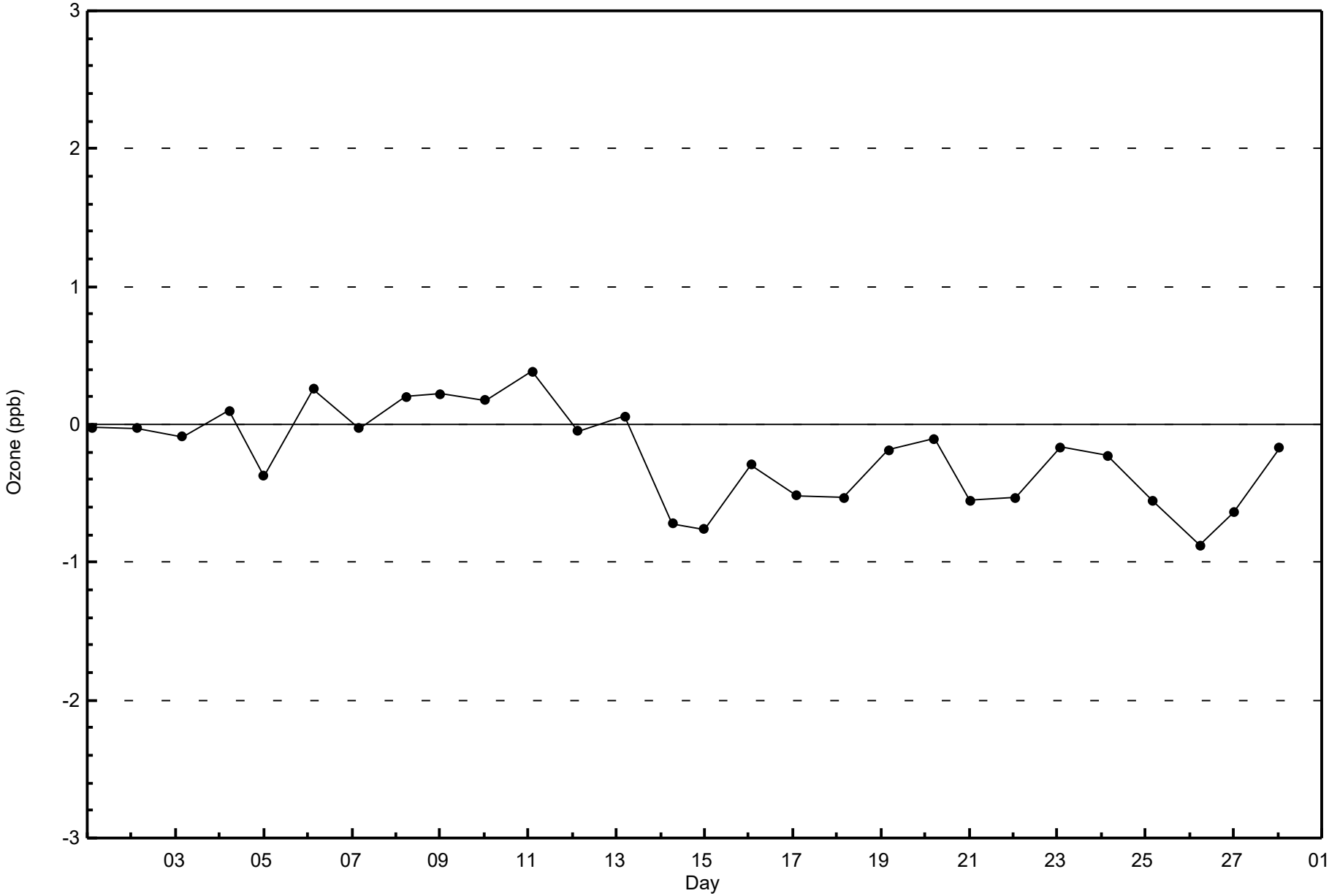
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Ozone (O_3) - ppb

Buffalo Viewpoint - February 2026

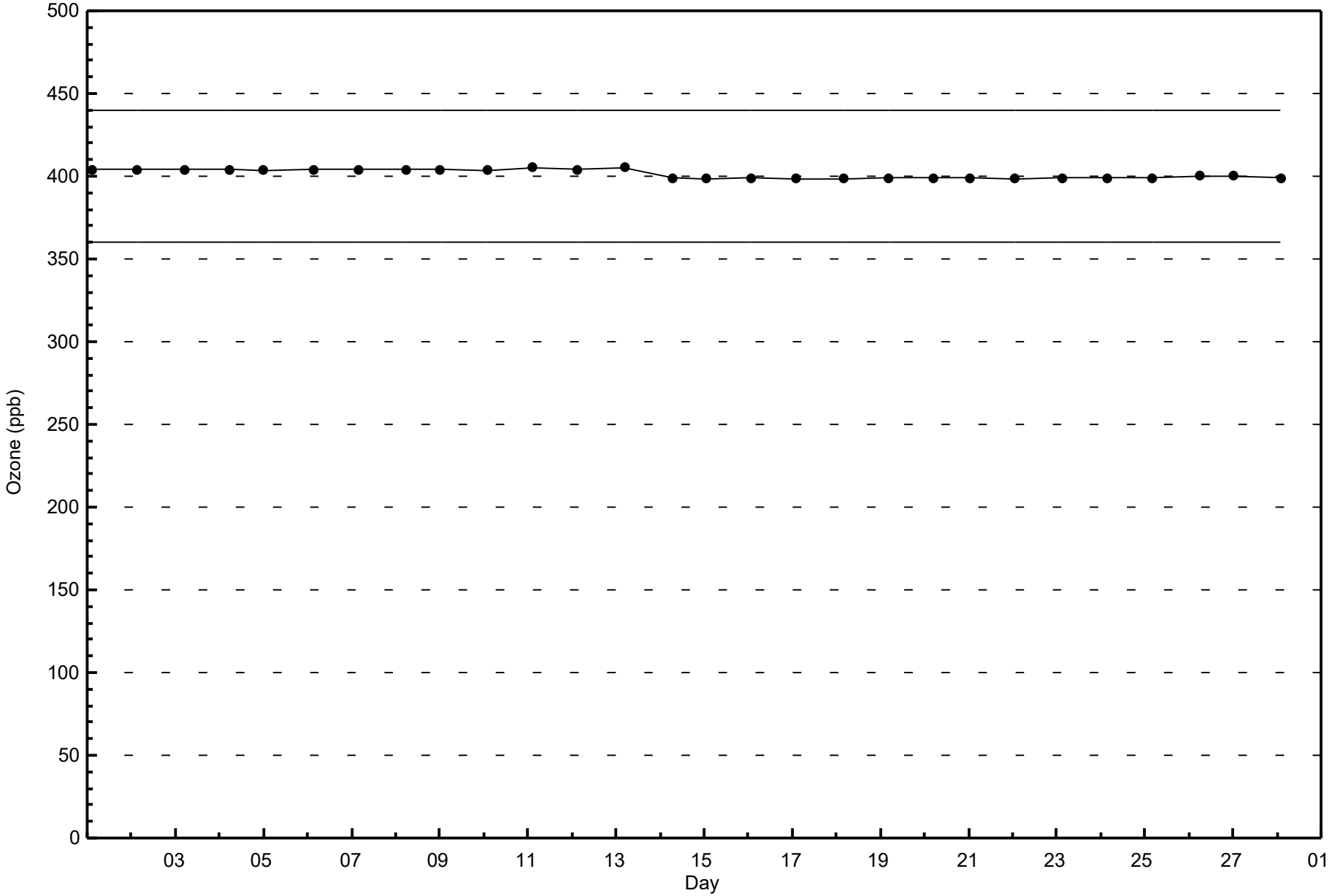


Wood Buffalo Environmental Association

Span Responses

Ozone (O_3) - ppb

Buffalo Viewpoint - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Buffalo Viewpoint - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 15.4 $\mu g/m^3$ on Feb 10 11:00

Maximum Daily Average: 6.9 $\mu g/m^3$ on Feb 10

Minimum Value: 0.6 $\mu g/m^3$ on Feb 12 20:00

Minimum Daily Average: 1.5 $\mu g/m^3$ on Feb 12

Maximum Diurnal Average: 4.0 $\mu g/m^3$ at hour 19

Minimum Diurnal Average: 3.3 $\mu g/m^3$ at hour 5

Monthly Average: 3.65 $\mu g/m^3$

Percentiles: P_1 = 1.0 P_{10} = 1.9 Q_1 = 2.5 Median = 3.1 Q_3 = 4.3 P_{90} = 6.1 P_{99} = 11.6

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Hours of Calibration:	1
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	3.5	3.5	3.2	2.5	2.6	3.2	3.1	3.3	3.3	3.0	2.8	2.2	1.9	2.3	2.5	2.3	2.1	1.8	1.6	1.6	1.8	1.8	1.8	1.9	2.5	3.5
2-Feb	2.1	2.1	1.9	1.8	1.7	1.8	2.1	2.3	2.4	2.6	2.9	3.5	3.8	4.2	4.6	5.0	5.1	5.7	6.3	6.7	8.0	7.6	7.2	7.1	4.1	8.0
3-Feb	7.4	7.4	6.5	5.3	4.5	4.5	4.5	4.5	4.0	3.1	2.9	2.9	3.2	3.9	6.5	7.2	7.4	9.1	9.4	8.5	6.7	8.9	6.6	5.2	5.8	9.4
4-Feb	4.8	4.4	4.5	5.1	5.6	5.7	5.5	3.2	2.8	2.6	2.2	1.7	1.4	1.3	1.2	1.2	1.0	1.3	3.3	4.3	4.7	4.0	3.3	3.5	3.3	5.7
5-Feb	3.5	2.9	2.7	2.4	2.1	2.0	2.0	2.1	1.9	1.9	1.8	DF	DF	2.3	2.3	2.3	2.1	1.9	2.0	2.2	2.3	2.5	2.6	2.6	2.3	3.5
6-Feb	2.6	2.8	3.0	2.9	2.5	2.6	2.8	3.3	3.5	2.9	2.8	3.1	3.3	2.9	2.9	2.8	3.0	3.0	3.0	3.0	2.9	2.9	3.0	4.2	3.0	4.2
7-Feb	4.1	4.5	4.9	5.2	5.1	5.1	2.8	2.8	3.1	3.3	3.5	3.5	3.5	3.1	2.5	2.6	2.8	3.0	3.0	3.0	3.0	3.2	3.2	3.2	3.5	5.2
8-Feb	3.5	3.7	3.5	3.8	4.4	4.2	4.3	4.7	5.6	5.3	5.2	5.1	3.7	3.7	3.4	3.0	2.9	3.3	3.5	3.5	3.5	3.4	3.6	3.6	3.9	5.6
9-Feb	3.8	3.9	4.2	4.6	4.4	5.1	3.9	3.3	3.6	4.3	4.7	5.0	4.9	4.4	3.9	3.1	2.9	2.7	2.7	2.5	2.6	2.6	2.7	2.7	3.7	5.1
10-Feb	2.9	3.0	3.3	3.6	4.1	5.2	6.6	8.7	14.1	14.6	15.4	12.6	8.7	6.8	4.8	4.8	4.7	4.9	5.3	5.7	6.0	6.2	6.7	6.6	6.9	15.4
11-Feb	6.7	7.2	7.0	6.9	5.9	6.6	6.9	6.6	5.8	6.1	5.7	4.2	3.4	3.3	1.6	1.1	0.9	1.1	1.6	1.4	1.3	1.4	1.5	1.3	4.0	7.2
12-Feb	1.1	1.1	1.8	2.0	2.2	2.3	2.1	2.0	2.4	2.2	1.8	C	1.7	1.1	0.8	0.8	0.7	1.0	1.1	0.6	1.0	2.0	1.8	1.1	1.5	2.4
13-Feb	1.0	1.2	1.5	1.7	1.9	2.0	2.1	2.2	2.1	2.2	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.4	2.6	2.4	2.7	2.6	2.5	3.4	2.2	3.4
14-Feb	2.7	2.7	2.9	3.8	3.5	2.7	2.8	2.6	2.7	3.3	3.2	7.5	11.2	8.0	7.4	8.8	9.9	9.7	13.1	11.5	11.3	10.6	11.7	8.0	6.7	13.1
15-Feb	7.2	4.4	3.2	3.3	3.1	3.2	3.1	3.0	2.8	2.5	2.1	2.2	2.3	2.6	3.5	3.4	3.9	4.0	2.9	2.8	4.9	4.6	4.6	4.6	3.5	7.2
16-Feb	4.9	5.5	6.5	6.0	5.0	4.7	5.5	6.4	7.1	10.3	11.8	6.8	6.1	6.9	6.0	7.8	5.0	3.4	3.5	3.1	3.1	3.6	3.4	3.7	5.7	11.8
17-Feb	3.0	2.4	2.3	2.8	2.7	2.8	2.3	2.7	2.7	2.6	2.7	2.8	2.9	3.5	3.5	3.8	4.6	4.1	3.4	3.3	3.1	2.8	2.8	2.9	3.0	4.6
18-Feb	3.1	3.0	2.9	2.9	2.7	2.7	2.6	2.3	2.3	2.3	2.4	2.4	2.3	2.2	2.4	2.2	2.1	2.1	2.1	2.3	2.3	2.3	2.5	2.5	2.5	3.1
19-Feb	2.4	2.6	2.8	2.7	3.3	4.7	3.5	3.8	3.2	3.1	2.8	3.2	2.8	2.8	2.4	1.2	1.3	1.5	1.5	2.2	2.5	2.4	2.3	2.6	2.7	4.7
20-Feb	2.6	2.5	2.3	2.7	2.7	2.7	2.8	3.5	3.5	4.3	3.5	3.5	4.4	4.7	5.1	7.3	10.0	9.9	6.5	3.2	2.8	3.4	3.9	3.5	4.2	10.0
21-Feb	2.8	2.8	3.0	2.2	2.2	2.4	2.4	2.5	2.8	2.7	2.6	2.7	4.1	2.9	2.8	2.7	2.7	2.6	3.1	2.6	3.0	2.9	2.7	2.6	2.7	4.1
22-Feb	2.6	2.7	2.6	2.7	2.9	3.1	3.2	3.4	3.3	3.4	3.4	3.6	3.6	3.7	4.3	4.8	4.2	4.4	5.0	4.5	4.2	3.3	2.0	1.8	3.4	5.0
23-Feb	1.7	2.0	1.7	1.7	1.7	1.6	1.6	1.6	1.7	2.0	2.1	2.3	3.1	5.1	5.2	8.8	6.3	3.4	3.1	3.0	3.4	3.0	5.4	6.3	3.2	8.8
24-Feb	5.9	3.6	3.5	5.3	5.4	3.9	3.9	4.9	5.1	4.4	4.0	4.3	4.4	4.8	4.9	5.1	5.4	5.6	6.4	6.0	4.9	4.5	3.7	3.6	4.7	6.4
25-Feb	3.1	3.0	3.3	3.3	3.1	4.2	4.3	4.1	4.1	4.3	4.0	3.9	4.0	4.3	4.6	4.8	5.0	5.2	5.9	7.0	5.5	3.4	2.9	2.9	4.2	7.0
26-Feb	3.0	2.9	3.0	3.0	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.7	2.6	2.8	2.6	2.8	2.8	2.8	2.8	2.8	2.7	2.6	2.4	2.5	2.8	3.0
27-Feb	2.4	2.3	1.8	1.8	1.7	1.8	2.1	2.2	2.3	2.3	2.4	2.8	2.4	3.0	2.5	4.1	4.1	3.2	3.5	3.1	3.0	3.0	3.0	3.3	2.7	4.1
28-Feb	3.8	3.4	3.3	3.2	3.1	3.2	3.9	3.3	3.4	3.8	3.2	3.8	3.2	2.8	2.5	2.6	2.5	2.6	2.6	2.7	2.8	3.4	4.3	5.9	3.3	5.9
	3.5	3.3	3.3	3.4	3.3	3.5	3.4	3.5	3.7	3.9	3.8	3.9	3.7	3.6	3.5	3.9	3.8	3.8	4.0	3.8	3.8	3.7	3.7	3.7	Diurnal Average	
	7.4	7.4	7.0	6.9	5.9	6.6	6.9	8.7	14.1	14.6	15.4	12.6	11.2	8.0	7.4	8.8	10.0	9.9	13.1	11.5	11.3	10.6	11.7	8.0	Diurnal Maximum	

C - Calibration DF - DAS Failure

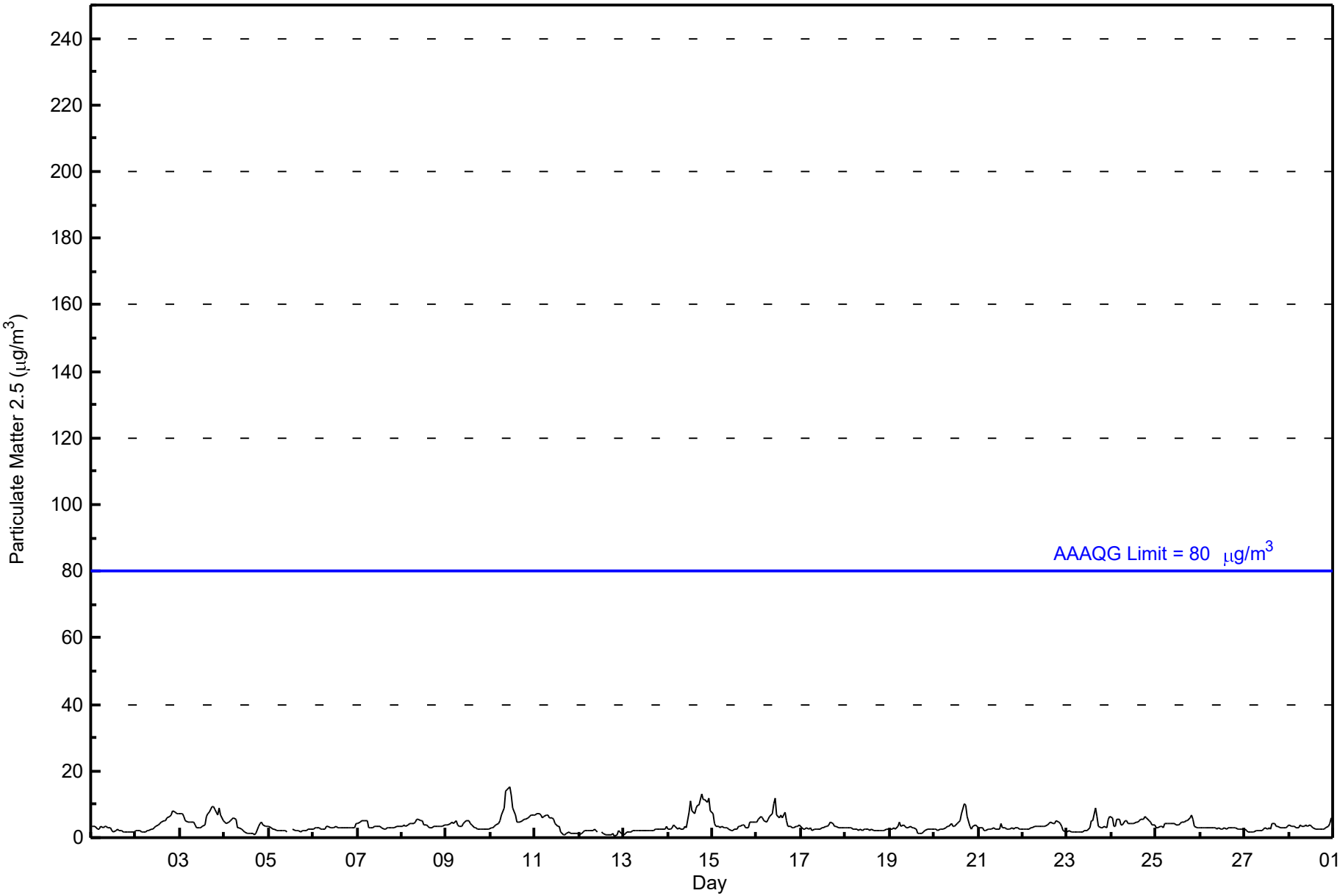
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Buffalo Viewpoint - February 2026



Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	583	87.14	87.15
6 - 15	86	12.86	100.00
16 - 25	0	0.00	100.00
26 - 80	0	0.00	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 669

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Buffalo Viewpoint - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	210	67	15	6	6	21	54	92	36	8	10	24	11	5	7	11	583
6 - 15	20	11	0	1	2	1	12	13	8	0	0	1	1	2	8	6	86
16 - 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	230	78	15	7	8	22	66	105	44	8	10	25	12	7	15	17	669

Total Number of Valid Hours: 669

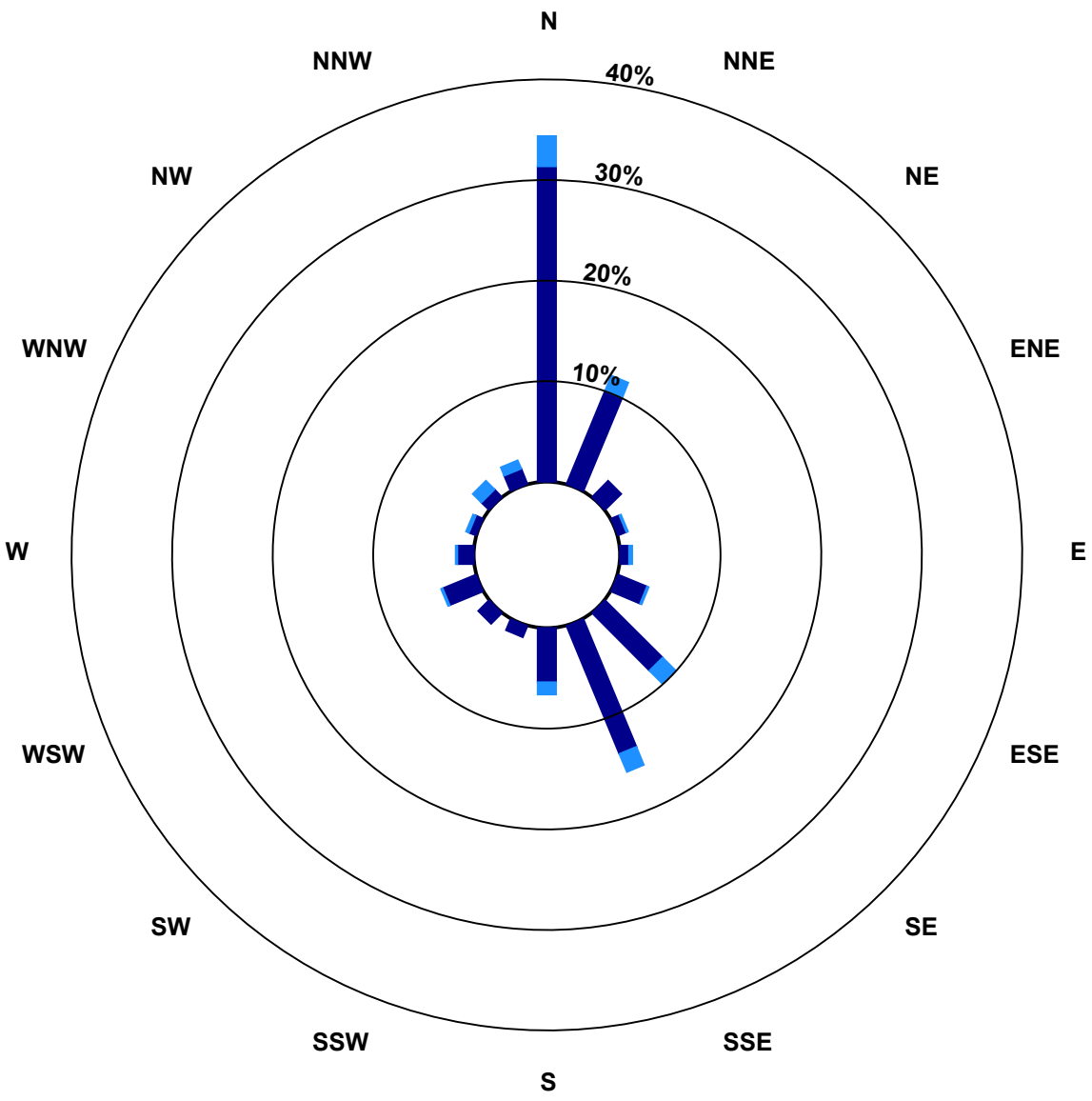
Total Number of Hours: 672

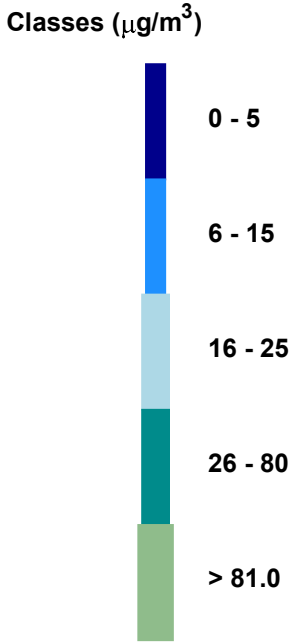
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Buffalo Viewpoint





Total Number of Valid Hours: 669

Wood Buffalo Environmental Association

Summary of Hour Averages

Ambient Temperature 2m (AT2) - C

Buffalo Viewpoint - February 2026

Maximum Value: 10.1 C on Feb 4 16:00

Maximum Daily Average: 2.5 C on Feb 4

Minimum Value: -39.2 C on Feb 28 06:00

Minimum Daily Average: -30.5 C on Feb 18

Maximum Diurnal Average: -11.1 C at hour 16

Minimum Diurnal Average: -17.8 C at hour 8

Monthly Average: -14.99 C

Percentiles: P_1 = -38.0 P_{10} = -27.9 Q_1 = -22.5 Median = -14.7 Q_3 = -8.6 P_{90} = -1.2 P_{99} = 6.3

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	0
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.0	-12.1	-12.4	-12.8	-12.9	-12.9	-12.9	-12.8	-12.6	-12.1	-11.4	-10.8	-10.2	-9.7	-9.9	-9.7	-9.9	-10.0	-9.9	-9.9	-10.1	-10.2	-10.1	-9.8	-11.1	-9.7
2-Feb	-9.5	-9.1	-8.7	-8.4	-8.3	-8.3	-8.2	-8.2	-8.0	-7.6	-6.8	-6.0	-5.5	-4.4	-3.4	-3.3	-3.6	-3.9	-4.0	-3.9	-4.2	-4.5	-4.8	-5.0	-6.2	-3.3
3-Feb	-5.1	-5.3	-6.5	-6.9	-7.1	-7.3	-7.4	-7.6	-8.1	-8.5	-8.5	-8.1	-7.6	-7.1	-6.1	-5.6	-5.2	-5.3	-5.1	-4.6	-3.8	-3.2	-2.5	-2.0	-6.0	-2.0
4-Feb	-1.5	-0.9	-0.5	-0.1	0.4	0.2	-0.2	3.2	3.7	4.9	6.2	7.4	8.4	9.3	9.9	10.1	9.2	6.3	0.4	-1.1	-2.2	-3.2	-4.1	-5.1	2.5	10.1
5-Feb	-6.3	-7.7	-8.9	-10.2	-11.6	-12.6	-13.5	-14.5	-15.1	-15.4	-15.3	DF	-14.0	-13.7	-13.7	-13.5	-13.6	-14.0	-14.1	-14.1	-14.8	-14.9	-15.0	-15.0	-13.1	-6.3
6-Feb	-14.8	-14.8	-14.7	-14.3	-13.2	-12.9	-12.7	-13.4	-13.1	-11.5	-10.9	-10.2	-9.8	-8.9	-8.3	-7.8	-7.4	-8.0	-8.3	-8.4	-8.7	-9.0	-9.3	-9.5	-10.8	-7.4
7-Feb	-10.2	-9.6	-9.2	-9.2	-9.2	-9.7	-11.2	-12.2	-13.1	-13.6	-13.9	-13.8	-13.7	-13.8	-13.7	-14.0	-14.3	-14.7	-14.8	-14.7	-14.6	-14.5	-14.5	-14.4	-12.8	-9.2
8-Feb	-14.3	-14.3	-14.2	-13.9	-13.8	-13.5	-13.2	-13.0	-12.7	-12.1	-11.7	-11.3	-11.2	-11.1	-11.7	-11.9	-12.3	-12.8	-13.2	-13.4	-13.4	-13.7	-13.7	-14.0	-12.9	-11.1
9-Feb	-14.5	-15.1	-15.0	-14.3	-14.2	-14.4	-14.3	-14.3	-14.2	-14.0	-13.6	-12.9	-12.6	-12.5	-12.6	-13.0	-13.8	-14.3	-14.6	-15.0	-15.4	-15.7	-15.9	-16.1	-14.3	-12.5
10-Feb	-16.3	-16.4	-16.4	-16.4	-16.5	-16.4	-16.3	-16.2	-15.9	-15.3	-14.4	-12.7	-10.4	-7.8	-5.1	-4.3	-4.3	-5.4	-6.5	-7.3	-8.6	-9.6	-9.4	-9.8	-11.6	-4.3
11-Feb	-10.5	-10.8	-11.5	-13.1	-11.6	-10.5	-9.1	-10.7	-10.4	-8.7	-5.3	-2.5	-0.7	0.8	3.9	4.4	3.7	1.4	-1.0	-1.5	-1.7	-1.5	-1.5	-1.4	-4.6	4.4
12-Feb	-1.9	-1.7	0.9	0.0	0.0	-0.9	-1.0	-1.2	-1.6	-0.1	0.0	1.3	2.9	4.1	4.9	4.9	4.9	3.7	3.1	3.1	4.1	6.2	5.8	5.4	2.0	6.2
13-Feb	4.6	4.0	3.6	3.2	2.5	1.7	0.9	-0.3	-0.6	0.5	1.6	2.7	4.0	4.7	5.4	5.8	5.3	3.0	1.6	0.2	-2.9	-3.3	-3.9	-5.6	1.6	5.8
14-Feb	-7.5	-8.9	-9.3	-10.4	-10.0	-10.5	-10.7	-10.5	-11.3	-8.5	-5.6	-5.4	-4.4	-2.7	-1.7	-1.2	-1.0	-3.0	-4.6	-5.1	-5.5	-5.5	-6.5	-9.2	-6.6	-1.0
15-Feb	-9.2	-10.4	-12.1	-13.0	-14.1	-14.7	-15.4	-15.7	-15.9	-16.3	-16.9	-17.3	-17.2	-17.3	-16.6	-15.8	-15.9	-18.3	-19.8	-21.2	-22.3	-22.7	-22.9	-23.6	-16.9	-9.2
16-Feb	-24.4	-24.4	-25.1	-26.0	-26.5	-27.1	-27.2	-27.6	-26.7	-25.1	-23.8	-22.2	-20.6	-19.5	-18.7	-18.3	-18.6	-20.6	-21.4	-21.9	-22.4	-22.9	-23.7	-24.3	-23.3	-18.3
17-Feb	-24.8	-25.1	-25.3	-26.3	-26.5	-27.2	-27.8	-28.0	-27.9	-27.5	-26.8	-26.1	-25.3	-25.2	-25.5	-25.7	-26.2	-26.7	-26.8	-27.2	-27.5	-28.0	-28.3	-28.6	-26.7	-24.8
18-Feb	-29.2	-29.5	-29.8	-30.1	-30.3	-30.4	-30.6	-30.6	-30.5	-30.3	-30.3	-30.1	-29.8	-29.6	-29.4	-29.4	-29.6	-30.0	-30.2	-30.9	-31.2	-31.6	-33.4	-34.4	-30.5	-29.2
19-Feb	-35.5	-36.7	-37.7	-38.0	-38.7	-38.6	-37.5	-36.6	-35.3	-33.3	-30.0	-28.2	-25.6	-23.2	-20.9	-18.7	-18.2	-19.6	-21.5	-22.4	-23.2	-23.9	-24.4	-25.3	-28.9	-18.2
20-Feb	-26.2	-26.9	-28.1	-29.1	-29.0	-28.9	-30.1	-30.3	-30.1	-27.5	-23.9	-20.6	-19.2	-18.3	-16.5	-15.4	-15.8	-17.9	-19.1	-20.0	-21.4	-22.9	-23.5	-24.5	-23.6	-15.4
21-Feb	-25.0	-25.6	-26.3	-26.2	-27.0	-25.9	-24.9	-24.0	-22.7	-21.7	-20.3	-18.6	-17.9	-17.1	-16.7	-16.8	-17.3	-17.9	-18.9	-20.5	-21.7	-23.2	-24.1	-24.7	-21.9	-16.7
22-Feb	-25.4	-25.7	-26.0	-26.3	-26.3	-26.6	-26.9	-27.3	-27.5	-27.1	-26.1	-25.1	-23.8	-22.3	-21.6	-21.4	-21.4	-21.4	-21.3	-20.9	-20.3	-19.3	-18.7	-18.9	-23.6	-18.7
23-Feb	-19.1	-19.4	-19.6	-19.8	-20.2	-20.2	-20.5	-20.9	-20.7	-19.9	-18.3	-17.2	-17.3	-16.0	-15.5	-15.4	-15.4	-16.4	-17.9	-18.8	-19.9	-21.9	-21.3	-21.8	-18.9	-15.4
24-Feb	-22.9	-24.9	-24.9	-24.2	-24.4	-25.9	-25.8	-25.6	-24.3	-21.2	-17.4	-15.0	-13.9	-13.3	-12.7	-12.1	-12.3	-13.6	-15.0	-16.9	-17.7	-17.3	-16.8	-16.3	-18.9	-12.1
25-Feb	-15.3	-14.7	-14.6	-15.2	-15.6	-16.0	-15.7	-15.6	-15.4	-13.5	-12.5	-10.5	-9.3	-8.9	-7.8	-6.9	-6.6	-7.0	-8.0	-8.5	-8.8	-10.2	-11.8	-12.6	-11.7	-6.6
26-Feb	-13.7	-14.8	-15.6	-16.5	-16.8	-16.7	-17.0	-17.1	-17.0	-16.9	-16.9	-16.2	-15.5	-15.1	-16.0	-16.9	-18.1	-18.6	-19.0	-19.5	-20.5	-21.3	-22.2	-23.0	-17.5	-13.7
27-Feb	-23.6	-24.7	-25.6	-26.5	-27.8	-29.0	-30.1	-30.6	-29.8	-29.0	-27.9	-26.8	-25.9	-25.1	-24.4	-24.0	-24.6	-25.5	-26.9	-27.7	-28.3	-29.1	-30.8	-32.9	-27.4	-23.6
28-Feb	-35.1	-36.6	-38.1	-38.4	-39.1	-39.2	-38.1	-37.9	-36.3	-32.4	-27.7	-25.8	-21.4	-17.7	-15.4	-14.4	-13.9	-14.8	-15.7	-16.8	-18.0	-18.0	-17.9	-17.6	-26.1	-13.9
	-16.0	-16.5	-16.8	-17.2	-17.4	-17.7	-17.8	-17.8	-17.6	-16.6	-15.3	-14.1	-13.1	-12.2	-11.4	-11.1	-11.3	-12.3	-13.3	-13.9	-14.5	-14.8	-15.2	-15.7	Diurnal Average	
	4.6	4.0	3.6	3.2	2.5	1.7	0.9	3.2	3.7	4.9	6.2	7.4	8.4	9.3	9.9	10.1	9.2	6.3	3.1	3.1	4.1	6.2	5.8	5.4	Diurnal Maximum	

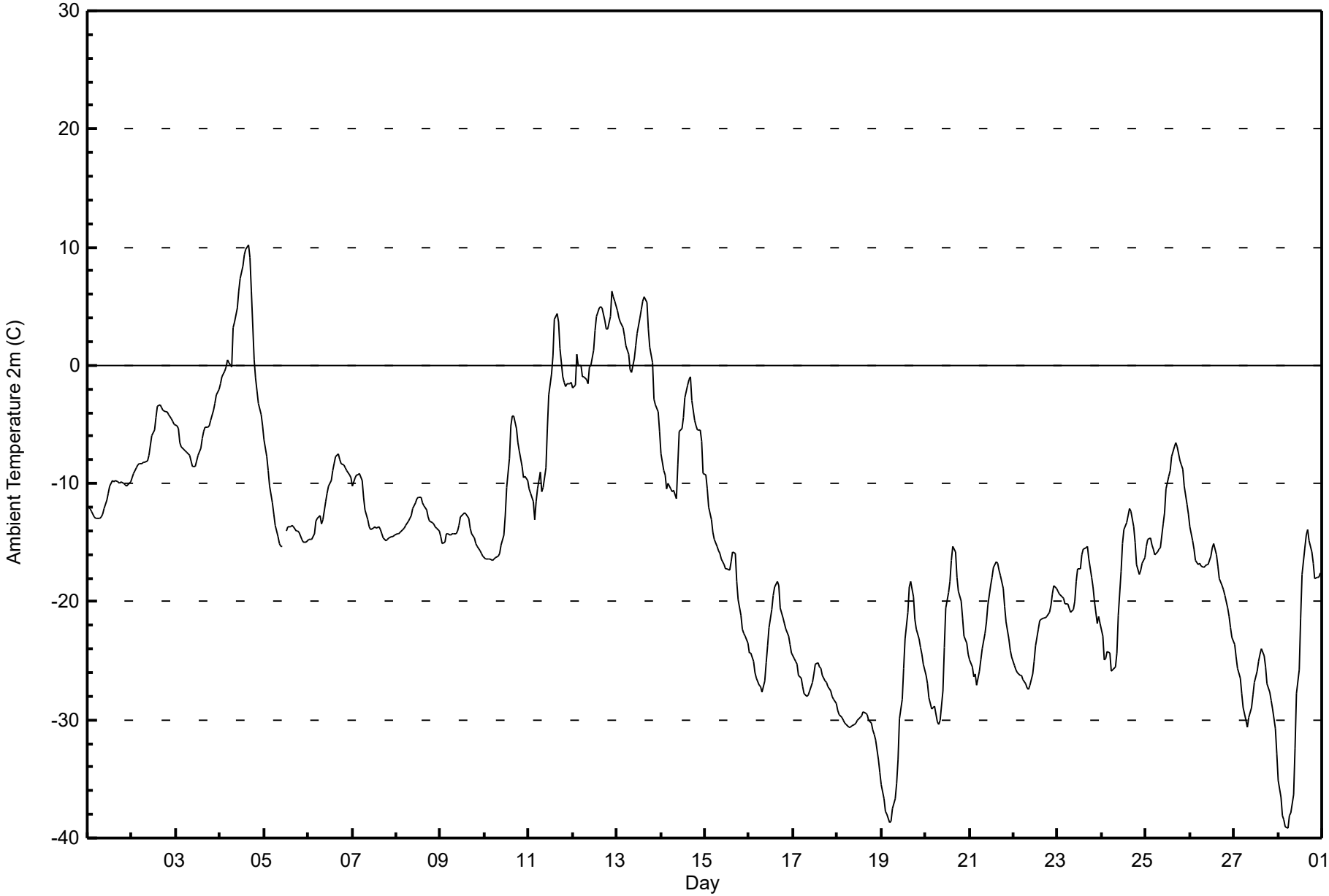
DF - DAS Failure

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Buffalo Viewpoint - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	206	30.70	30.70
-20 - 0	412	61.40	92.10
0 - 10	52	7.75	99.85
10 - 20	1	0.15	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 671

Total Number of Hours: 672

Maximum Value: 93.5 % on Feb 3 02:00
Maximum Daily Average: 85.1 % on Feb 3

Minimum Value: 34.2 % on Feb 13 16:00
Minimum Daily Average: 45.8 % on Feb 13
Maximum Diurnal Average: 78.2 % at hour 2
Minimum Diurnal Average: 66.3 % at hour 15
Monthly Average: 74.51 %
Percentiles: P_1 = 41.8 P_{10} = 60.3 Q_1 = 67.9 Median = 76.1 Q_3 = 82.8 P_{90} = 86.6 P_{99} = 91.9

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	0
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	83.4	83.0	84.7	84.2	83.9	83.7	84.0	84.5	84.8	84.4	83.0	80.0	76.7	75.7	78.3	79.0	79.9	79.1	78.1	77.8	77.3	77.6	78.4	78.2	80.8	84.8
2-Feb	78.1	77.9	77.5	77.7	78.6	81.9	83.7	86.3	87.7	88.1	86.6	85.2	86.4	83.5	79.7	80.5	83.1	85.6	88.0	89.7	90.9	92.2	92.2	92.4	84.7	92.4
3-Feb	92.8	93.5	91.3	89.0	87.6	87.3	87.6	87.8	85.4	81.4	77.3	75.4	74.1	74.0	75.0	77.5	80.8	89.5	90.9	90.1	89.1	88.1	88.3	88.3	85.1	93.5
4-Feb	87.8	92.0	91.5	88.4	86.1	86.4	89.8	80.6	80.3	75.9	70.0	65.3	61.3	58.0	56.3	55.5	58.3	66.3	84.0	90.0	90.9	91.4	90.8	90.7	78.6	92.0
5-Feb	91.4	88.1	88.2	87.6	84.3	83.4	84.1	83.1	83.1	81.1	80.0	DF	78.7	77.5	76.2	75.9	76.8	77.1	79.4	79.6	81.7	83.3	84.2	84.7	82.1	91.4
6-Feb	84.7	85.3	85.5	85.2	83.3	83.9	83.8	83.9	84.3	81.4	80.3	79.5	78.9	79.1	82.5	83.7	82.5	84.2	85.9	85.3	85.6	87.1	88.4	89.5	83.9	89.5
7-Feb	89.6	89.5	89.2	88.8	89.1	90.6	87.8	86.7	86.9	86.1	85.6	84.0	81.7	80.6	79.0	80.3	81.3	81.9	81.8	81.8	81.9	82.1	81.6	81.8	84.6	90.6
8-Feb	82.3	83.2	83.3	83.3	84.9	85.6	85.6	86.1	86.2	86.5	85.8	84.5	82.8	81.6	80.6	80.4	82.2	82.5	82.1	83.2	84.4	84.1	84.4	84.8	83.8	86.5
9-Feb	84.6	85.2	85.3	85.2	85.3	85.3	84.6	83.2	83.8	84.6	83.1	81.2	79.6	79.3	79.0	79.1	80.0	80.1	80.7	80.5	80.8	80.2	79.6	79.8	82.1	85.3
10-Feb	81.8	83.0	84.6	84.6	85.3	85.2	84.7	84.9	85.7	85.7	85.1	85.6	86.5	83.1	74.8	74.1	77.0	83.0	88.6	91.1	91.7	91.9	92.0	91.8	85.1	92.0
11-Feb	91.0	91.0	89.2	88.0	89.3	89.8	90.3	89.7	89.9	90.5	91.5	87.1	76.3	70.0	58.4	56.3	60.3	72.3	83.1	83.9	82.6	81.1	81.2	80.4	81.8	91.5
12-Feb	81.5	78.2	65.9	69.1	68.9	71.6	71.5	71.7	72.5	66.7	64.4	61.1	57.0	55.2	55.4	55.4	56.8	61.3	62.6	60.1	54.9	47.5	45.5	41.8	62.4	81.5
13-Feb	41.8	42.4	42.7	42.7	44.0	46.1	48.4	51.7	51.6	48.2	45.3	42.3	38.8	36.9	35.0	34.2	35.0	40.1	43.5	46.6	59.3	57.4	58.7	66.8	45.8	66.8
14-Feb	73.4	77.9	78.6	80.0	79.2	80.9	82.9	82.7	82.7	73.0	62.3	63.3	62.2	56.9	54.1	53.2	52.6	58.8	67.7	70.5	72.2	71.4	75.1	82.6	70.6	82.9
15-Feb	83.6	83.6	82.1	80.2	81.3	82.3	80.7	80.8	79.1	74.0	70.7	67.8	65.4	64.2	64.5	61.6	59.5	64.2	64.2	65.5	69.5	69.6	70.1	74.4	72.5	83.6
16-Feb	75.5	76.1	75.9	75.7	75.7	75.0	74.5	74.2	74.4	72.9	69.8	67.6	63.6	62.7	58.1	58.9	59.1	62.3	64.4	64.2	64.9	64.6	65.8	67.6	68.5	76.1
17-Feb	67.7	67.0	67.0	68.4	69.6	71.0	72.3	71.6	71.0	69.8	68.8	68.0	67.2	66.8	67.4	67.8	69.6	70.5	70.5	70.8	70.8	69.7	69.4	69.7	69.3	72.3
18-Feb	70.1	69.6	69.5	69.2	69.1	69.0	69.1	68.0	67.8	67.2	66.2	65.3	64.6	65.1	66.0	66.5	66.8	68.1	68.4	69.3	70.1	69.7	69.4	69.3	68.1	70.1
19-Feb	68.5	67.7	67.1	67.0	66.5	66.5	67.0	67.4	67.8	67.6	64.6	60.4	56.8	54.2	53.1	53.2	55.2	60.5	66.5	69.2	70.5	72.8	73.7	74.8	64.9	74.8
20-Feb	75.7	76.4	75.5	74.6	74.4	74.9	73.2	73.2	72.1	70.8	67.2	58.6	58.3	59.3	58.6	58.4	62.0	69.0	68.5	64.7	65.8	69.3	70.3	70.5	68.4	76.4
21-Feb	69.4	70.2	71.0	69.9	70.9	71.3	71.3	71.8	72.5	72.2	69.5	66.0	67.6	65.3	65.4	67.7	70.8	69.9	74.2	74.1	74.5	73.1	72.8	72.6	70.6	74.5
22-Feb	73.2	73.1	73.2	73.2	72.2	72.2	72.2	71.8	71.5	70.1	69.0	68.8	67.6	66.7	68.4	72.3	74.5	76.5	77.9	78.7	79.3	79.0	79.2	79.0	73.3	79.3
23-Feb	78.2	78.5	77.9	78.3	78.8	78.6	78.0	78.4	77.8	74.2	71.3	70.0	72.3	70.1	70.7	70.2	70.4	74.4	78.2	80.4	81.3	79.9	81.9	79.9	76.2	81.9
24-Feb	78.1	76.1	77.4	78.7	78.3	76.0	76.4	76.1	77.0	75.9	70.0	63.6	60.6	60.2	59.7	58.5	60.4	65.1	71.3	77.6	78.9	78.0	77.0	76.8	72.0	78.9
25-Feb	77.0	79.7	82.3	83.1	83.4	83.6	83.7	83.1	82.4	77.4	74.1	68.5	66.4	66.9	65.1	64.9	66.2	72.4	81.0	83.0	82.4	83.2	81.6	81.7	77.2	83.7
26-Feb	81.2	81.0	80.1	81.4	81.8	81.7	81.8	81.5	81.6	81.6	81.7	79.9	79.5	79.3	78.4	79.2	78.2	79.6	79.0	78.8	76.4	75.5	73.4	72.8	79.4	81.8
27-Feb	72.4	72.1	72.3	71.9	71.3	71.1	71.6	71.6	70.0	68.3	65.7	65.9	63.4	62.4	59.8	61.1	64.5	67.4	69.4	69.1	70.1	71.7	70.9	71.1	68.5	72.4
28-Feb	69.4	68.2	67.2	67.3	66.8	66.8	67.2	67.1	67.1	67.8	64.8	62.4	60.5	59.2	57.8	55.6	56.5	60.1	65.4	68.8	74.3	76.0	78.7	79.2	66.4	79.2
	78.0	78.2	77.7	77.6	77.5	77.9	78.1	77.8	77.7	75.8	73.3	70.6	69.1	67.6	66.3	66.5	67.9	71.5	74.8	75.9	76.9	76.7	76.9	77.6	Diurnal Average	
	92.8	93.5	91.5	89.0	89.3	90.6	90.3	89.7	89.9	90.5	91.5	87.1	86.5	83.5	82.5	83.7	83.1	89.5	90.9	91.1	91.7	92.2	92.2	92.4	Diurnal Maximum	

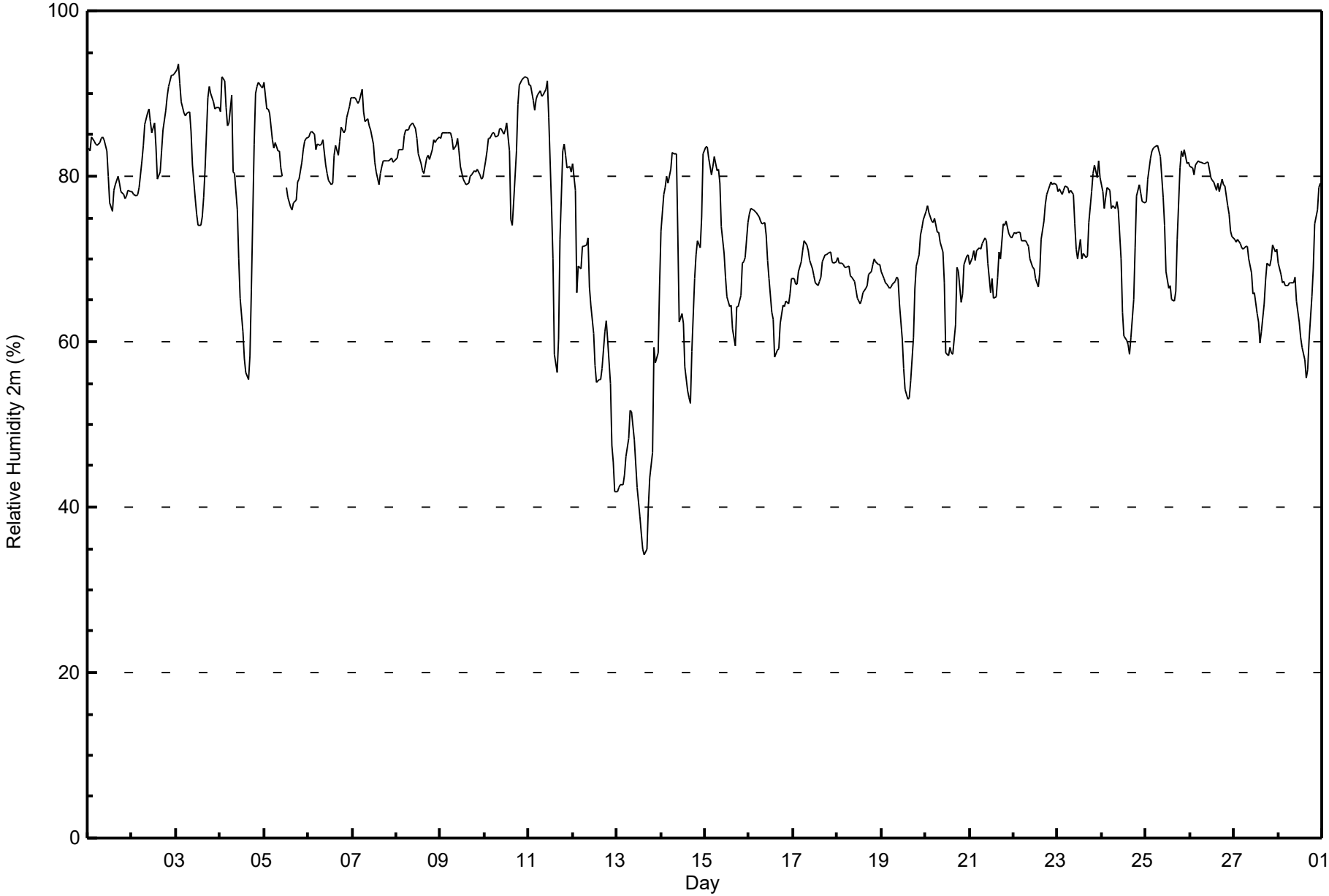
DF - DAS Failure

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Buffalo Viewpoint - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Buffalo Viewpoint - February 2026

Maximum Speed: 29 km/h on Feb 18 01:00

Maximum Daily Speed Average: 21.9 km/h on Feb 17

Minimum Speed Value: 1 km/h on Feb 25 08:00

Minimum Daily Speed Average: 1.3 km/h on Feb 10

Maximum Diurnal Speed Average: 4.6 km/h at hour 20

Minimum Diurnal Speed Average: 2.3 km/h at hour 16

Monthly Average Velocity: 3.2 km/h 11.2 deg

Percentiles: P_1 = 2 P_{10} = 4 Q_1 = 5 Median = 7 Q_3 = 11 P_{90} = 17 P_{99} = 26

Hours in Service:	672
Hours of Data:	670
Hours of Missing Data:	2
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ENE5	E5	E5	ESE4	ESE5	SE4	SE4	SE5	SE7	SE7	SE9	SSE11	SSE10	SE10	ESE10	ESE8	ESE9	SE9	SE8	SE8	SE8	SE8	SSE7	SSE9	SE6.9	SSE11
2-Feb	SSE9	SSE9	SSE9	SSE8	SSE9	SSE8	SSE7	SSE7	S6	S7	SSE7	SSE7	S7	SE6	SSE5	SSE4	SE5	SE5	WNW2	N3	N5	N8	N8	NNE6	SSE4.0	SSE9
3-Feb	N5	N9	NNE9	N6	NNE5	NNE5	N3	NNE5	NNE5	NE6	NNE5	NNE5	NNE5	E4	SSE5	SE4	SSE5	SSE6	SSE5	S4	SE8	SSE9	SSE11	SSE12	E2.4	SSE12
4-Feb	SSE10	SSE10	S11	SSE12	SSE8	SSE5	SW7	WSW20	WSW18	WSW16	WSW18	WSW21	W13	W15	W13	WSW12	WSW13	NW9	N17	N13	N14	N13	NNE11	NNE13	W5.8	WSW21
5-Feb	N13	N16	N17	N16	N21	N17	N16	N17	N15	N15	NNE11	DF	DF	NNE5	NE5	NNE3	NE6	NE5	NE5	NNE8	NNE9	NNE8	NNE6	NNE7	NNE10.7	N21
6-Feb	N5	N5	NNE3	ENE3	SE6	SE5	E6	ENE5	E7	ESE9	ESE8	ESE8	ESE9	SE7	SSE7	SE7	SE6	SE4	SE4	SE5	SSE4	WNW1	NNW3	NW3	ESE3.8	ESE9
7-Feb	WSW2	NNE4	N4	N3	NNE3	NNE11	NNE13	N14	N14	N13	N13	N10	N10	NNE10	NNE10	N11	N10	N10	N10	N11	N11	N10	N8	N8	N9.1	N14
8-Feb	N9	N8	N6	NNW5	NNW7	NNW6	NNW5	NW7	NW5	NNW5	NW7	NNW9	N9	N11	N10	N8	N7	NNE7	NNE5	NNE6	NNE6	NNE6	NNE4	NE3	N6.3	N11
9-Feb	NE3	E2	NE3	NE3	NE4	NE4	NNE6	NE7	NNE8	NNE7	NNE8	N9	N10	N10	N10	N10	N10	N10	N11	N11	N10	N9	N8	N10	N7.2	N11
10-Feb	N10	N8	N6	N6	N5	N3	NNW2	NNW3	NW3	NW3	W3	S3	S5	S6	S10	S10	S9	S6	S6	SSE6	SSE4	S7	SE5	S3	S1.3	S10
11-Feb	S4	NNE3	SSE5	SE7	SE9	E4	SE6	SSE7	SE7	SE6	SE6	SE6	SE8	SE6	WSW8	WSW8	SSW7	SSE6	SE7	SSE7	SSE6	SE6	ENE3	SE7	SSE5.0	SE9
12-Feb	SE8	SSE8	WSW9	WNW10	W14	W14	W19	W19	WSW13	SW4	SE7	SE7	SE6	SSE6	SSW10	S9	S8	SSE9	SSE10	SSE11	S9	SW15	SW17	SW17	SW7.2	W19
13-Feb	SW16	SW17	WSW20	WSW19	WSW20	WSW21	W20	WSW11	SW11	WSW17	W22	WSW16	WSW13	WSW14	WSW14	WSW10	SW7	S5	SSE5	SW5	S5	NW3	WNW3	SSW2	WSW11.5	W22
14-Feb	SSE6	S6	SE7	SSE7	SE7	SSE7	SSE7	SSE7	SSE7	SE4	ENE2	NNE5	NNE7	NNE5	NNE5	NNE5	E3	NNE4	N6	NNW5	NW5	WNW1	NNE4	N11	E1.7	N11
15-Feb	NW3	N13	NNE13	N11	N11	N10	N9	N9	N10	NNE10	N11	NNE12	NNE10	NNE9	N6	N6	NNW4	NNE6	NNE9	NNE9	NNE6	NE5	NNE4	N4	N8.1	NNE13
16-Feb	N4	N5	NNE4	N4	N4	W2	N4	N3	N2	NNW3	N5	N6	NW6	NNW7	N11	N11	N11	N11	N13	NNE16	NNE17	NNE18	NNE16	N19	N8.1	N19
17-Feb	N17	N17	NNE15	NNE9	N16	N20	N21	N18	N19	N23	N21	N21	N25	N25	N27	N25	N26	N26	N26	N27	N25	N27	N26	N25	N21.9	N27
18-Feb	N29	N27	N26	N25	N24	N23	N24	N23	N22	N20	N21	N19	N19	N17	N16	N14	N14	N12	N9	N7	NNW5	N3	S4	S4	N16.2	N29
19-Feb	S4	SSE5	SSE8	SSE8	SSE7	S6	S6	SSE6	S6	SSE6	SSE7	SE9	SE8	ESE9	SE8	S9	SSW8	S6	SSE5	SSE6	SSE8	SSE8	SSE7	SSE7	SSE6.6	S9
20-Feb	SSE6	S6	S7	S8	S7	S6	SSE6	SSE8	SSE8	SSE7	SE6	ESE4	NNE5	NNE7	NNE5	NW6	NW6	N9	N12	N12	N12	N9	N13	N11	NE1.5	N13
21-Feb	N11	N10	N10	N11	NNW5	N4	NNE3	NNE3	N7	N10	N6	N5	NNW8	N10	NNE10	NNE11	N11	NNE12	N13	NNE14	NNE16	N15	N14	N15	N9.5	NNE16
22-Feb	N13	N11	N11	N12	N13	N14	N15	N11	N12	N11	N9	N9	N8	N8	N6	N6	N8	N7	N7	NNE5	NE2	SE3	SE5	ESE7	N7.8	N15
23-Feb	SE7	SE7	SE7	SE3	SSE4	SSE3	SSE3	SSE3	SE3	SSW6	W4	NW4	NNE5	NNE5	NNE6	ENE4	SE4	SSE5	SSE6	SSE6	SSE5	SSE5	WNW4	NNW4	SE2.2	SE7
24-Feb	WSW1	SSE5	SSE9	SSE8	SE7	SSE6	SSE7	SSE6	SSE7	SE5	SE4	SE4	SE6	SE8	ESE8	ESE7	ESE6	SE5	SE6	SSE6	SSE7	SSE5	SSE4	SSE5	SE5.7	SSE9
25-Feb	SSE6	SSE6	SSE4	SE4	ESE2	NNE5	N3	ENE1	SSW3	S3	SSE6	SSE7	SE7	ESE7	ESE6	ESE6	ESE5	NE3	N9	N11	N13	N13	N14	N14	ENE2.6	N14
26-Feb	N14	N18	N15	N15	N14	N13	N15	N16	N17	N18	N19	N22	N22	N22	N20	N19	N24	N23	N26	N27	N28	N23	N22	N22	N19.6	N28
27-Feb	N21	N18	N15	N14	N12	N9	N7	N6	N6	N8	N6	N6	N7	N6	N6	WNW5	NW4	N3	NNE4	N4	N3	N5	N2	SW1	N7.1	N21
28-Feb	S2	S4	SSE8	SSE8	SSE8	S7	S7	SSW7	SSW6	S7	SSE5	SE10	SE8	SE10	SSE11	SSE10	SSE9	SSE6	S6	S5	SSE6	SSE7	SSE8	S6	SSE6.8	SSE11
	N3.3	NNE3.8	NNE3.0	NNE2.5	N2.4	N3.0	N3.1	NNW2.8	N2.7	N2.7	N3.0	NNE2.7	NNE3.9	NNE3.7	N2.9	N2.3	N2.4	NNE3.4	NNE4.5	NNE4.6	NNE4.4	NNE3.9	N3.9	N3.7	Diurnal Average	
	N29	N27	N26	N25	N24	N23	N24	N23	N22	N23	W22	N22	N25	N25	N27	N25	N26	N26	N26	N27	N28	N27	N26	N25	Diurnal Maximum	

DF - DAS Failure

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Buffalo Viewpoint - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 7 km/h on Feb 26 20:00

Minimum Value: 1 km/h on Feb 19 01:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 2 Q_3 = 3 P_{90} = 5 P_{99} = 7

Hours in Service:	672
Hours of Data:	670
Hours of Missing Data:	2
Hours of Calibration:	0
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	1	2	1	1	1	1	2	2	3	3	4	4	3	3	2	3	3	3	3	3	3	2	3	4
2-Feb	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	2	2	1	3
3-Feb	2	3	3	2	2	1	2	2	1	2	2	1	1	1	2	2	2	2	1	1	3	3	4	4	4
4-Feb	3	4	3	4	4	1	4	5	4	5	5	6	4	4	3	3	3	5	5	3	4	3	3	3	6
5-Feb	3	4	5	4	5	4	5	5	4	4	3	DF	DF	2	1	1	2	2	2	3	2	2	2	2	5
6-Feb	1	2	1	2	2	2	2	2	3	3	3	3	3	3	2	3	2	1	1	1	1	1	1	1	3
7-Feb	1	1	1	2	2	4	4	4	4	3	4	3	3	3	3	3	3	2	3	3	3	2	2	2	4
8-Feb	2	2	2	2	2	2	1	2	1	1	2	2	2	3	3	2	2	2	2	2	1	2	1	1	3
9-Feb	1	1	2	1	1	1	2	2	2	2	2	2	2	2	2	3	2	2	2	3	3	2	2	3	3
10-Feb	2	2	1	2	2	1	2	1	1	1	1	1	2	2	3	3	2	2	2	2	2	2	2	1	3
11-Feb	1	1	2	1	1	2	2	1	1	1	1	2	2	2	3	2	2	1	1	1	2	1	2	1	3
12-Feb	1	1	3	3	3	3	4	4	5	2	2	2	2	3	3	3	3	3	3	3	3	4	5	5	5
13-Feb	4	4	5	5	6	5	5	4	3	5	5	5	4	3	3	3	3	1	1	2	1	2	2	2	6
14-Feb	1	2	2	1	1	1	1	2	2	2	2	1	1	2	1	1	1	2	2	1	1	1	4	5	5
15-Feb	2	4	4	3	3	3	2	3	3	3	3	3	3	3	2	2	1	2	2	2	1	1	1	1	4
16-Feb	1	1	2	2	1	1	1	1	1	1	1	1	2	2	3	3	3	2	3	4	4	5	4	5	5
17-Feb	4	5	5	2	5	5	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
18-Feb	7	7	7	7	6	6	7	7	6	6	6	5	5	4	4	4	4	3	3	2	2	2	1	1	7
19-Feb	1	1	1	1	1	2	1	1	1	2	2	3	2	2	3	3	2	2	1	2	2	2	1	1	3
20-Feb	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1	2	2	3	3	2	3	2	3
21-Feb	3	2	2	3	2	1	1	1	2	2	2	2	3	3	3	3	3	3	3	4	5	4	4	3	5
22-Feb	3	3	3	3	3	3	4	3	3	3	2	2	2	2	2	2	2	1	1	1	1	2	2	2	4
23-Feb	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2
24-Feb	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	2	1	1	2	2
25-Feb	2	2	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	2	3	3	3	3	4	4
26-Feb	4	5	5	4	4	3	3	4	4	4	4	5	5	6	7	5	6	6	7	7	7	6	6	5	7
27-Feb	6	5	4	4	3	3	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	6
28-Feb	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	2	1	1	2	2	2	2	3
	7	7	7	7	6	6	7	7	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	
	Diurnal Maximum																								

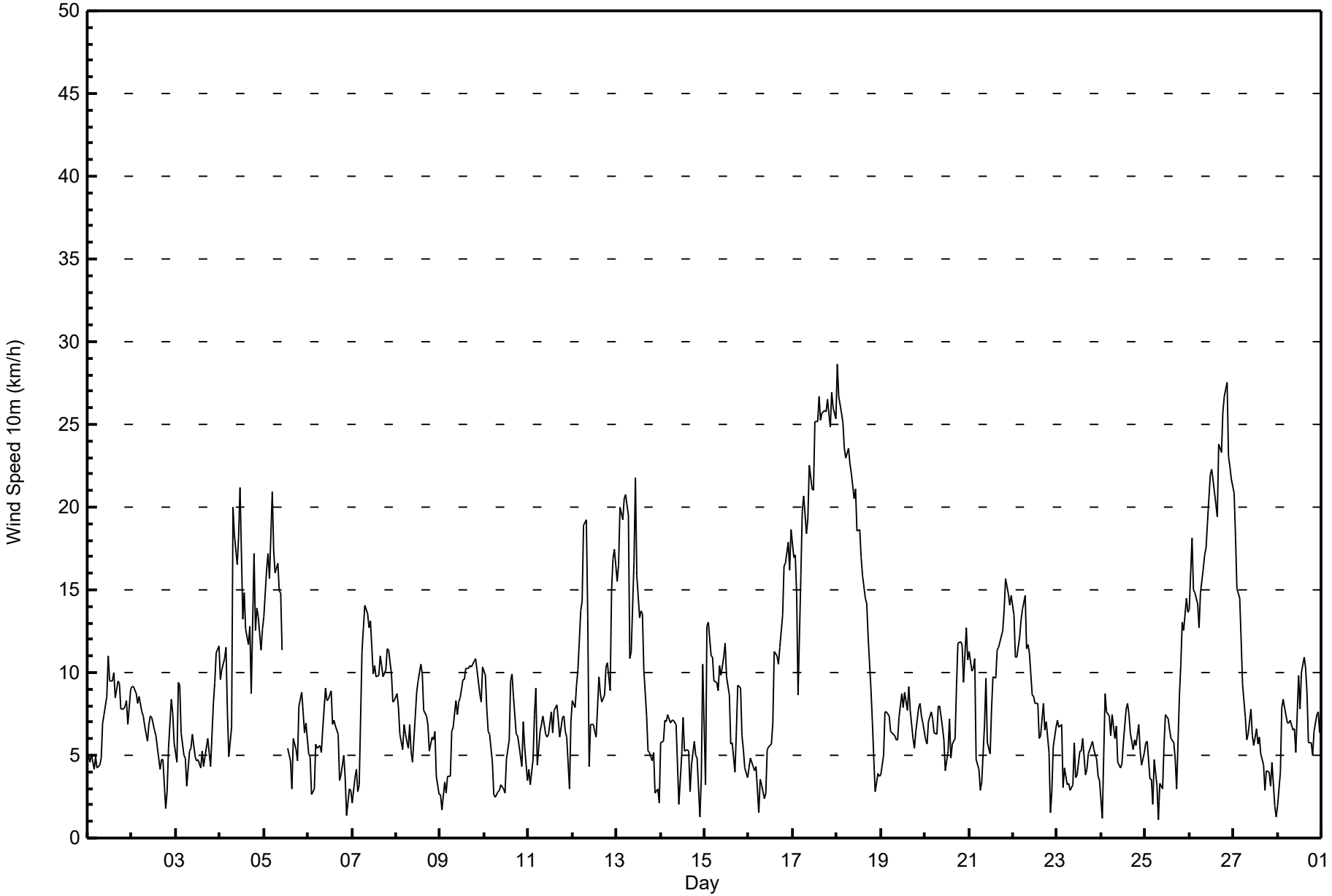
DF - DAS Failure

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Buffalo Viewpoint - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	188	28.06	28.06
6 - 11	329	49.10	77.16
12 - 19	104	15.52	92.69
20 - 28	48	7.16	99.85
29 - 38	1	0.15	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 670

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Buffalo Viewpoint - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	28	32	12	7	6	5	22	25	14	2	3	2	3	6	9	12	188
6 - 11	94	34	3	0	2	17	45	78	30	6	3	5	0	1	6	5	329
12 - 19	66	12	0	0	0	0	0	2	0	0	4	13	7	0	0	0	104
20 - 28	41	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	48
29 - 38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	230	78	15	7	8	22	67	105	44	8	10	25	12	7	15	17	670

Total Number of Valid Hours: 670

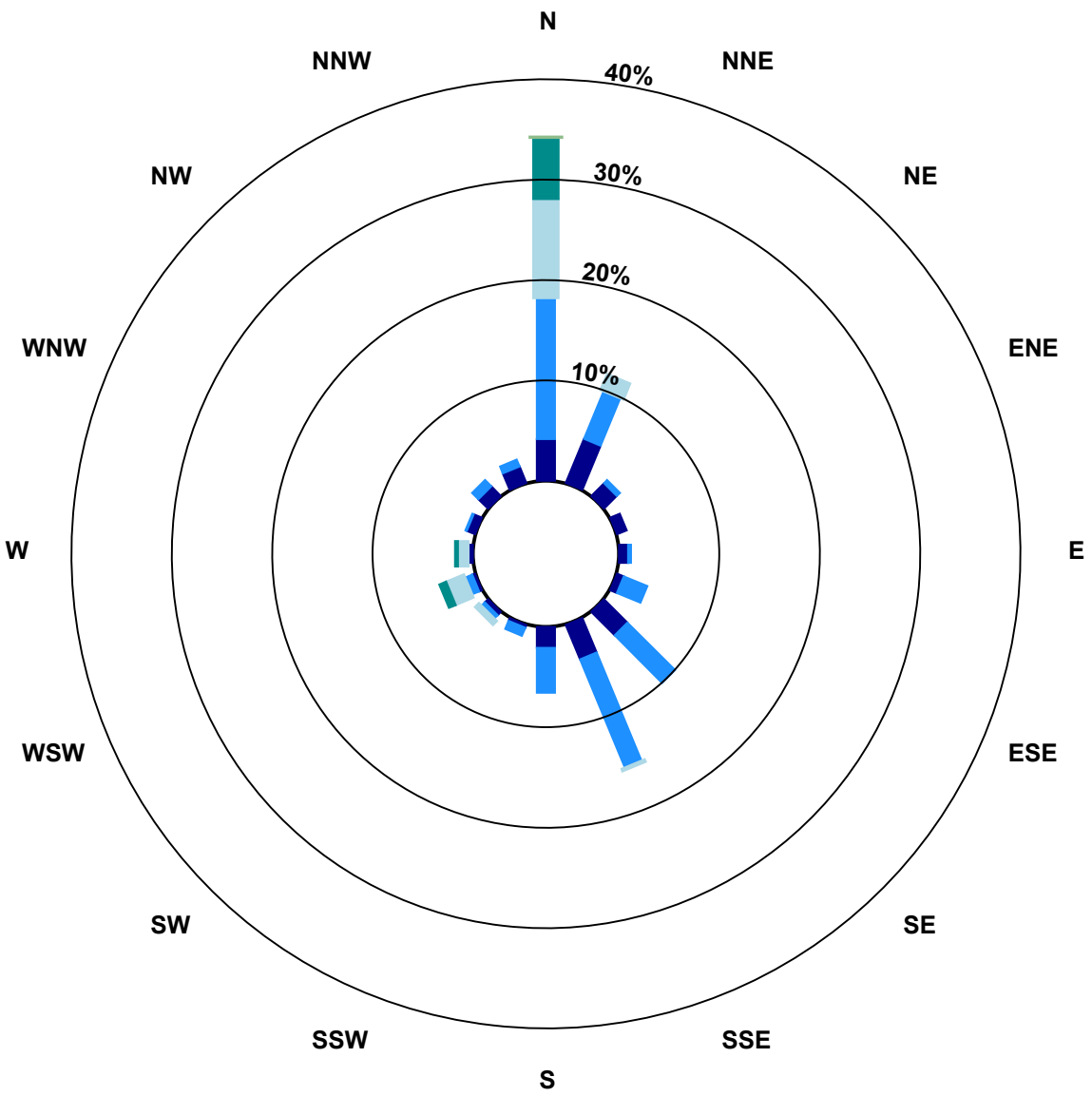
Total Number of Hours: 672

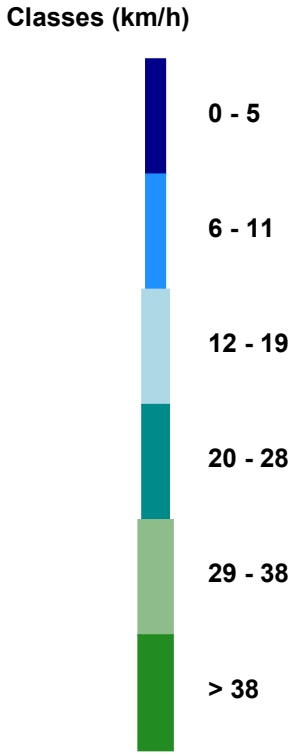
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Buffalo Viewpoint





Total Number of Valid Hours: 670

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Buffalo Viewpoint - February 2026

Direction of Maximum Speed: 3 deg on Feb 18 01:00
Direction of Maximum Daily Speed Average: 4.3 deg on Feb 17

Direction of Minimum Speed: 65 deg on Feb 25 08:00

Direction of Minimum Daily Speed Average: 1.3 deg on Feb 10

Monthly Average Direction: 11.2 deg

Hours in Service:	672
Hours of Data:	670
Hours of Missing Data:	2
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	76	94	87	105	119	138	126	125	136	144	142	156	149	141	121	121	120	129	139	142	143	144	147	157	133.2
2-Feb	160	159	157	157	163	163	163	164	171	172	160	168	169	141	160	160	131	132	283	7	4	9	359	13	152.3
3-Feb	352	10	17	11	12	25	5	33	23	51	32	15	15	96	151	142	153	164	158	173	145	157	154	157	85.9
4-Feb	166	158	169	155	161	152	234	254	258	253	254	255	277	271	268	252	256	319	7	353	356	11	23	13	270.3
5-Feb	4	11	5	6	9	360	358	4	359	8	14	DF	DF	16	45	14	43	51	36	25	31	33	23	29	12.5
6-Feb	0	7	14	73	125	126	98	71	86	114	118	112	114	139	151	138	136	131	137	145	151	291	338	304	112.4
7-Feb	240	22	9	3	27	19	14	5	1	2	6	359	5	22	12	3	357	2	9	6	6	359	4	0	6.0
8-Feb	1	357	3	334	328	341	331	324	322	332	325	342	353	358	358	10	9	16	23	16	16	22	20	50	355.0
9-Feb	40	91	54	52	43	39	24	43	27	21	19	6	4	356	3	354	352	356	357	360	2	1	358	358	9.0
10-Feb	358	356	2	1	357	356	333	331	307	307	275	173	169	172	190	182	184	180	172	168	160	173	144	178	186.9
11-Feb	183	31	148	143	146	86	124	151	142	145	143	144	134	134	250	239	197	165	141	150	148	146	70	144	150.6
12-Feb	142	154	247	283	262	274	266	262	257	217	128	127	124	165	203	169	183	153	162	161	186	223	232	236	217.2
13-Feb	232	234	247	247	253	256	262	251	228	251	260	257	255	254	256	243	235	179	165	217	176	322	283	201	246.5
14-Feb	155	170	145	163	144	157	166	168	157	142	67	30	21	29	27	24	94	22	8	335	320	295	19	6	91.8
15-Feb	324	2	12	359	360	10	0	0	7	22	11	12	19	17	358	359	346	23	29	24	18	43	30	357	10.3
16-Feb	350	358	14	4	357	276	354	355	359	329	6	0	314	338	356	352	356	1	6	15	12	17	14	7	2.4
17-Feb	7	11	12	15	5	2	3	4	5	7	8	6	1	5	4	4	359	1	4	5	4	3	1	3	4.3
18-Feb	3	4	4	4	2	3	3	4	3	1	1	358	359	358	358	356	358	353	353	356	343	360	176	178	0.7
19-Feb	180	156	151	159	163	180	181	165	169	149	150	127	125	117	138	174	194	175	159	164	162	163	166	166	158.5
20-Feb	159	174	172	175	171	182	162	153	147	156	137	123	15	18	17	308	321	358	3	5	5	351	354	358	34.9
21-Feb	355	353	355	359	346	10	24	18	357	8	358	352	338	359	18	18	6	20	6	15	15	9	6	10	5.6
22-Feb	8	358	359	358	359	355	2	355	354	358	2	2	5	7	351	353	1	360	9	12	42	137	127	123	4.0
23-Feb	127	138	142	137	155	155	157	160	140	199	270	317	24	19	22	77	136	168	150	150	151	157	289	334	139.5
24-Feb	256	162	152	152	142	161	148	156	152	140	133	137	124	126	121	113	114	133	135	157	147	164	160	168	143.0
25-Feb	160	150	156	145	121	30	8	65	197	179	148	158	130	117	113	114	116	40	1	5	11	5	4	2	58.6
26-Feb	2	7	359	1	356	358	3	6	8	7	2	8	3	4	0	355	356	356	353	356	358	356	355	359	360.0
27-Feb	2	10	5	5	3	2	2	2	3	3	9	359	8	356	7	303	306	350	16	9	360	350	8	229	1.0
28-Feb	181	175	154	154	158	177	188	196	195	174	148	126	131	134	150	159	157	162	173	170	166	166	161	170	161.0
	10.5	18.2	18.1	13.4	7.8	358.6	351.8	348.1	355.1	5.5	7.0	13.4	16.4	21.8	11.2	5.5	5.9	21.2	20.4	17.9	20.4	15.1	10.3	9.9	
	Diurnal Average																								

DF - DAS Failure
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Buffalo Viewpoint - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 78 deg on Feb 14 23:00

Minimum Value: 5 deg on Feb 24 05:00

Percentiles: P_1 = 8 P_{10} = 15 Q_1 = 19 Median = 22 Q_3 = 28 P_{90} = 35 P_{99} = 62

Hours in Service:	672
Hours of Data:	670
Hours of Missing Data:	2
Hours of Calibration:	0
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	18	24	21	27	23	37	27	34	32	34	31	34	36	33	26	27	26	28	33	34	32	34	34	29	37
2-Feb	32	31	31	32	31	33	29	29	26	27	30	28	30	29	34	33	19	11	65	23	15	16	19	20	65
3-Feb	17	22	22	23	20	23	36	24	22	23	26	22	22	43	39	40	36	30	32	27	29	33	32	34	43
4-Feb	33	37	30	29	38	38	21	17	15	18	19	17	21	16	17	17	14	44	20	24	22	23	20	21	44
5-Feb	21	22	23	22	22	22	22	23	23	25	24	DF	DF	26	29	42	22	23	19	21	18	18	20	17	42
6-Feb	16	18	20	49	29	30	24	38	39	24	26	26	23	37	32	36	29	21	30	31	32	31	35	31	49
7-Feb	46	28	18	25	27	20	22	22	22	22	20	22	22	24	24	21	23	23	22	20	20	21	19	15	46
8-Feb	19	18	23	25	21	20	20	18	19	23	23	21	20	19	21	20	22	21	21	21	21	22	23	21	25
9-Feb	35	50	35	29	18	22	16	25	18	20	21	20	19	20	21	22	21	20	19	21	23	23	20	20	50
10-Feb	21	19	19	18	20	22	26	32	25	27	40	49	41	38	28	30	26	26	22	24	35	23	30	38	49
11-Feb	35	27	27	12	8	41	36	15	14	20	23	22	20	18	31	20	19	21	13	13	18	14	61	9	61
12-Feb	14	15	32	20	15	15	13	14	21	46	34	20	24	45	23	31	30	28	30	28	32	17	19	19	46
13-Feb	17	19	18	18	17	16	14	24	18	18	14	19	21	18	18	20	20	27	29	36	45	49	56	62	62
14-Feb	17	11	16	14	10	16	15	21	16	24	62	19	12	34	20	14	45	56	19	28	16	63	78	22	78
15-Feb	55	22	27	21	21	20	22	21	21	22	23	21	22	22	21	20	29	21	14	18	17	18	23	18	55
16-Feb	13	18	51	8	15	42	12	22	13	41	20	23	32	34	19	22	19	17	18	19	19	21	20	21	51
17-Feb	22	21	21	20	22	22	23	22	23	23	23	22	24	24	24	24	23	25	24	24	23	23	23	24	25
18-Feb	24	24	22	23	23	24	24	23	24	22	22	24	23	22	21	22	23	20	20	17	19	9	16	35	35
19-Feb	16	14	8	7	9	20	18	18	19	25	30	26	26	23	39	30	29	27	28	23	17	21	16	14	39
20-Feb	11	14	11	13	12	10	10	17	10	17	26	43	24	15	17	25	21	16	16	18	17	19	18	16	43
21-Feb	17	15	15	18	21	22	25	32	19	18	24	33	29	20	24	22	20	20	22	21	20	20	21	19	33
22-Feb	20	21	21	20	21	21	21	20	20	19	18	18	19	18	25	22	16	13	13	14	59	29	29	26	59
23-Feb	27	31	30	35	34	34	27	42	44	28	49	33	17	21	21	36	31	17	14	8	6	46	22	33	49
24-Feb	62	11	8	7	5	13	13	13	14	16	28	37	35	24	19	19	21	14	11	15	20	29	28	30	62
25-Feb	33	31	33	29	36	12	19	36	24	53	36	36	30	22	21	18	21	36	19	19	19	20	21	19	53
26-Feb	24	21	22	23	22	19	18	19	18	19	20	21	22	23	22	22	23	22	23	22	22	21	22	21	24
27-Feb	23	22	21	20	20	18	17	19	19	19	23	31	20	31	20	36	26	20	23	11	18	12	69	61	69
28-Feb	65	34	9	7	9	16	14	14	15	25	44	20	29	29	33	35	33	27	29	28	19	22	21	20	65
	65	50	51	49	38	42	36	42	44	53	62	49	41	45	39	42	45	56	65	36	59	63	78	62	
	Diurnal Maximum																								

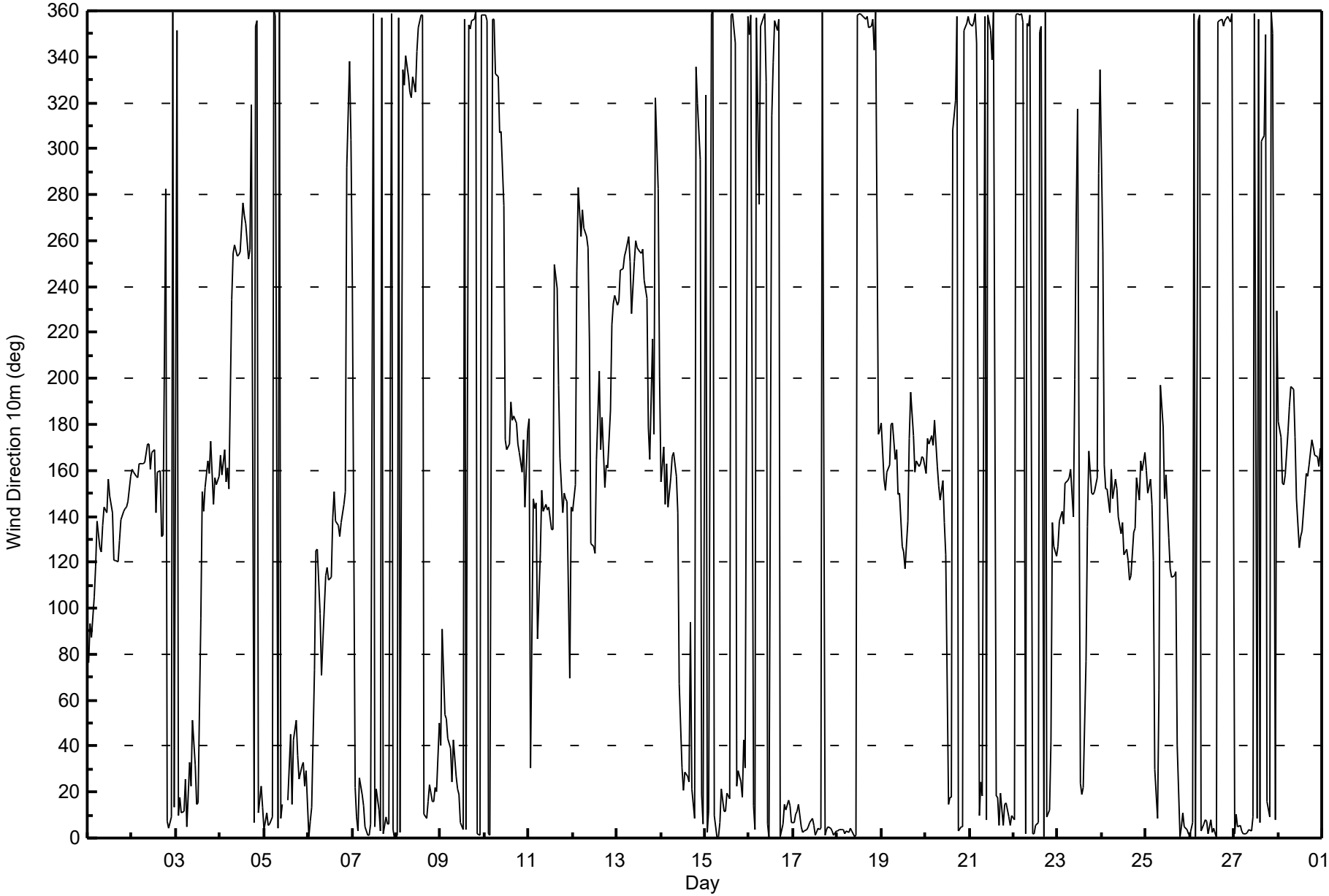
DF - DAS Failure

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Buffalo Viewpoint - February 2026



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS05
MANNIX
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - MANNIX (AMS05)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	640	32	32	100	47.2	0	16.2	0
H2S (ppb) Average	639	32	33	99.85	3	0	1	0
THC (ppm) Average	640	32	32	100	4.6	-	2.5	-
NMHC(ppm) Average	640	32	32	100	1.267	-	0.137	-
CH4(ppm) Average	640	32	32	100	4.6	-	2.4	-
Temperature 2 m (C) Average	672	0	0	100	8.7	-	2.1	-
Temperature 20 m (C) Average	672	0	0	100	9.8	-	2.7	-
Temperature 45 m (C) Average	672	0	0	100	9.7	-	2.6	-
Temperature 75 m (C) Average	672	0	0	100	9.7	-	2.9	-
Temperature 90 m (C) Average	672	0	0	100	9.1	-	2.2	-
Relative Humidity 2 m (%) Average	672	0	0	100	95	-	87	-
Relative Humidity 20 m (%) Average	672	0	0	100	95	-	86	-
Relative Humidity 45 m (%) Average	672	0	0	100	96	-	86	-
Relative Humidity 75 m (%) Average	672	0	0	100	97	-	88	-
Relative Humidity 90 m (%) Average	672	0	0	100	97	-	89	-
Wind Speed 20 m (km/h) Average	467	0	205	69.49	34	-	28	-
Wind Speed 45 m (km/h) Average	526	0	146	78.27	44	-	36	-
Wind Speed 75 m (km/h) Average	514	0	158	76.49	50	-	40	-
Wind Speed 90 m (km/h) Average	513	0	159	76.34	51	-	41	-
Wind Direction 20 m (deg) Average	467	0	205	69.49	-	-	-	-
Wind Direction 45 m (deg) Average	526	0	146	78.27	-	-	-	-
Wind Direction 75 m (deg) Average	514	0	158	76.49	-	-	-	-
Wind Direction 90 m (deg) Average	513	0	159	76.34	-	-	-	-
Vertical Wind Speed 20 m (km/h) Average	467	0	205	69.49	1.3	-	0.6	-
Vertical Wind Speed 45 m (km/h) Average	526	0	146	78.27	2.6	-	1.4	-
Vertical Wind Speed 75 m (km/h) Average	514	0	158	76.49	2	-	0.4	-
Vertical Wind Speed 90 m (km/h) Average	513	0	159	76.34	2	-	0.4	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - MANNIX (AMS05)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	640	2.35	5.6	-	0	0.1	0.1	0.4	1.1	7.6	47.2
H2S (ppb) Average	639	0.38	0.4	-	0	0.1	0.2	0.3	0.4	0.8	3.1
THC (ppm) Average	640	2.12	0.3	-	1.9	2	2	2	2.1	2.3	4.6
NMHC(ppm) Average	640	0.024	0.063	-	0	0	0	0	0	0.1	1.267
CH4(ppm) Average	640	2.1	0.3	-	1.9	2	2	2	2.1	2.2	4.6
Temperature 2 m (C) Average	672	-14.91	9.6	-	-36.1	-27.8	-22.5	-14.4	-8.4	-1.8	8.7
Temperature 20 m (C) Average	672	-14.79	9.9	-	-35.8	-27.9	-21.9	-14.7	-7.9	-0.4	9.8
Temperature 45 m (C) Average	672	-15.09	10.1	-	-36.6	-28.5	-22.5	-15.2	-8.2	-0.4	9.7
Temperature 75 m (C) Average	672	-14.46	10	-	-34.7	-27.8	-21.4	-14.7	-8	0.2	9.7
Temperature 90 m (C) Average	672	-15.61	10.2	-	-35.5	-29.4	-22.8	-15.8	-8.9	-0.4	9.1
Relative Humidity 2 m (%) Average	672	76.6	10	-	42	63	70	78	84	88	95
Relative Humidity 20 m (%) Average	672	74	11	-	37	59	68	75	83	86	95
Relative Humidity 45 m (%) Average	672	73.8	12	-	35	59	67	76	84	86	96
Relative Humidity 75 m (%) Average	672	74.3	12	-	35	59	67	76	85	87	97
Relative Humidity 90 m (%) Average	672	74.8	13	-	35	59	67	77	86	88	97
Wind Speed 20 m (km/h) Average	467	11.3	6	-	0	4	7	10	14	20	34
Wind Speed 45 m (km/h) Average	526	16.4	9	-	1	5	9	16	21	29	44
Wind Speed 75 m (km/h) Average	514	18.1	11	-	0	6	10	17	25	33	50
Wind Speed 90 m (km/h) Average	513	18.9	11	-	1	6	10	17	25	35	51
Wind Direction 20 m (deg) Average	467	-	-	-	-	-	-	-	-	-	-
Wind Direction 45 m (deg) Average	526	-	-	-	-	-	-	-	-	-	-
Wind Direction 75 m (deg) Average	514	-	-	-	-	-	-	-	-	-	-
Wind Direction 90 m (deg) Average	513	-	-	-	-	-	-	-	-	-	-
Vertical Wind Speed 20 m (km/h) Average	467	0.07	0.5	-	-1.6	-0.5	-0.2	0.1	0.5	0.7	1.3
Vertical Wind Speed 45 m (km/h) Average	526	0.01	1.2	-	-3.2	-1.6	-0.7	0.1	0.9	1.5	2.6
Vertical Wind Speed 75 m (km/h) Average	514	-0.17	0.6	-	-1.9	-1	-0.4	-0.1	0.2	0.4	2
Vertical Wind Speed 90 m (km/h) Average	513	0.2	0.4	-	-1.5	-0.3	0	0.2	0.4	0.7	2

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - MANNIX (AMS05)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
H2S	19 Feb 2026 09:00	19 Feb 2026 09:00	1	Maintenance - sample manifold cleaned
Vertical Wind Speed, Wind Speed, Wind Direction, 20m	04 Feb 2026 04:00	28 Feb 2026 14:00	205	Flat line in sensor output signal
Vertical Wind Speed, Wind Speed, Wind Direction, 45m	05 Feb 2026 01:00	11 Feb 2026 02:00	146	Flat line in sensor output signal
Vertical Wind Speed, Wind Speed, Wind Direction, 75m	04 Feb 2026 02:00	04 Feb 2026 03:00	2	Flat line in sensor output signal
Vertical Wind Speed, Wind Speed, Wind Direction, 75m	05 Feb 2026 00:00	11 Feb 2026 11:00	156	Flat line in sensor output signal
Vertical Wind Speed, Wind Speed, Wind Direction, 90m	04 Feb 2026 23:00	11 Feb 2026 13:00	159	Flat line in sensor output signal

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 47.2 ppb on Feb 26 00:00 Maximum Daily Average: 16.2 ppb on Feb 26

Minimum Value: 0.0 ppb on Feb 2 23:00 Minimum Daily Average: 0.1 ppb on Feb 2
Maximum Diurnal Average: 4.5 ppb at hour 3 Minimum Diurnal Average: 1.0 ppb at hour 18
Monthly Average: 2.35 ppb Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.1 Median = 0.4 Q_3 = 1.1 P_{90} = 7.6 P_{99} = 26.8

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	Z	0.1	0.2	0.5	1.0	1.2	0.9	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	1.2
2-Feb	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.0	0.1	0.1	0.3	0.1	0.0	0.0	0.1	0.3
3-Feb	0.0	0.0	0.1	Z	1.4	2.3	0.2	0.0	0.0	0.0	0.0	0.2	0.3	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	2.3
4-Feb	0.0	0.0	0.1	0.1	Z	0.0	0.0	0.0	0.0	0.2	0.5	0.5	0.4	0.3	0.3	0.1	0.1	0.0	4.5	1.0	0.9	0.2	0.0	0.1	0.4	4.5
5-Feb	0.7	3.2	20.2	16.3	5.7	20.7	6.4	9.2	5.8	2.9	0.9	Z	1.8	2.2	1.2	1.5	0.8	0.4	0.4	0.3	0.2	0.2	0.2	0.2	4.4	20.7
6-Feb	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.2	0.1	0.3
7-Feb	0.3	Z	0.2	0.1	0.1	0.6	10.7	7.6	1.0	3.6	3.1	2.1	0.7	0.4	0.3	0.5	0.7	0.6	0.6	0.3	0.4	0.5	0.4	0.7	1.5	10.7
8-Feb	0.5	0.4	Z	0.6	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.9	0.5	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.9
9-Feb	0.1	0.2	0.2	Z	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.8	1.6	7.6	4.3	2.7	14.2	8.4	3.4	1.4	2.1	14.2
10-Feb	1.9	1.0	0.5	0.3	Z	0.4	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.7	0.7	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.5	1.9
11-Feb	0.2	0.1	0.0	0.1	0.1	Z	0.1	0.4	0.1	0.2	0.1	0.2	0.3	0.4	0.5	0.5	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.5
12-Feb	Z	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
13-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.3	0.2	0.2	0.2	0.1	0.2	0.3
14-Feb	0.2	0.1	Z	0.2	0.1	0.2	0.3	0.1	0.3	0.3	0.4	0.4	0.4	0.4	0.6	0.4	0.3	0.5	1.0	1.2	1.0	0.9	0.8	1.6	0.5	1.6
15-Feb	0.4	0.7	0.9	Z	3.2	1.2	2.6	2.1	1.0	0.3	0.2	0.2	0.3	1.0	0.8	1.0	0.3	0.2	0.1	0.1	0.0	0.0	0.1	0.0	0.7	3.2
16-Feb	0.0	0.1	0.0	0.1	Z	0.1	0.2	0.4	0.7	0.4	8.1	2.5	0.9	0.3	0.3	0.3	0.4	0.6	2.8	4.4	5.4	11.7	10.9	10.8	2.7	11.7
17-Feb	21.1	9.6	4.5	5.5	2.7	19.7	10.5	4.1	3.9	7.8	6.4	6.7	17.7	3.6	2.9	Z	4.9	6.5	10.7	12.8	5.3	6.9	15.6	8.7	8.6	21.1
18-Feb	9.9	Z	11.0	3.9	6.0	13.3	15.9	21.9	15.1	13.5	10.4	9.1	11.2	11.2	10.0	21.7	4.7	1.3	0.8	0.6	0.5	0.5	0.5	0.4	8.4	21.9
19-Feb	0.3	Z	0.4	0.5	0.8	1.3	1.6	1.3	C	C	C	C	0.3	0.1	0.1	0.2	0.1	0.1	0.3	0.2	0.1	0.0	0.0	0.0	0.4	1.6
20-Feb	0.0	0.1	Z	0.1	0.0	0.2	0.1	0.2	0.3	0.3	0.3	0.4	0.5	0.5	4.6	13.7	7.8	3.2	3.2	5.6	9.7	9.0	7.0	11.2	3.4	13.7
21-Feb	6.3	8.3	5.4	3.4	Z	7.7	1.4	1.0	2.0	3.9	1.3	1.0	1.0	1.7	0.4	0.3	0.2	0.1	0.1	0.1	0.1	5.6	8.0	3.2	2.7	8.3
22-Feb	5.7	9.0	4.0	7.3	12.0	1.0	Z	4.9	0.8	1.0	0.7	1.2	1.3	1.3	0.9	0.6	1.2	1.1	0.4	0.2	0.1	0.1	0.1	0.1	2.4	12.0
23-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.2	0.6	0.6	1.1	1.9	6.1	5.3	3.2	1.2	0.5	0.4	0.3	0.4	0.3	0.4	1.0	6.1
24-Feb	Z	1.0	1.1	1.0	0.6	0.5	0.8	0.6	0.7	0.5	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.1	0.1	0.2	0.3	0.3	0.5	1.1
25-Feb	0.2	Z	0.2	0.1	0.2	0.2	0.3	0.4	0.7	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	1.1	2.5	3.9	20.0	21.9	47.2	4.5	47.2
26-Feb	26.9	16.5	45.8	34.3	15.3	5.7	6.2	4.5	21.5	26.6	20.2	38.3	37.4	39.2	18.4	8.3	4.6	Z	1.6	0.3	0.2	0.2	0.2	0.7	16.2	45.8
27-Feb	0.8	12.7	12.4	3.6	Z	8.6	0.8	0.7	1.1	0.7	3.0	0.3	0.2	0.2	1.0	1.1	0.8	0.5	0.3	0.1	0.1	0.1	0.2	0.2	2.2	12.7
28-Feb	0.2	0.2	0.2	0.5	Z	0.9	0.7	0.6	0.6	0.9	0.9	0.9	0.7	0.6	0.6	0.6	0.7	0.8	0.7	0.6	0.5	0.3	0.4	0.5	0.6	0.9
	3.0	2.9	4.5	3.1	2.3	3.3	2.3	2.2	2.1	2.4	2.3	2.6	2.9	2.5	1.9	2.2	1.3	1.0	1.2	1.2	1.6	2.4	2.5	3.2	Diurnal Average	
	26.9	16.5	45.8	34.3	15.3	20.7	15.9	21.9	21.5	26.6	20.2	38.3	37.4	39.2	18.4	21.7	7.8	7.6	10.7	12.8	14.2	20.0	21.9	47.2	Diurnal Maximum	

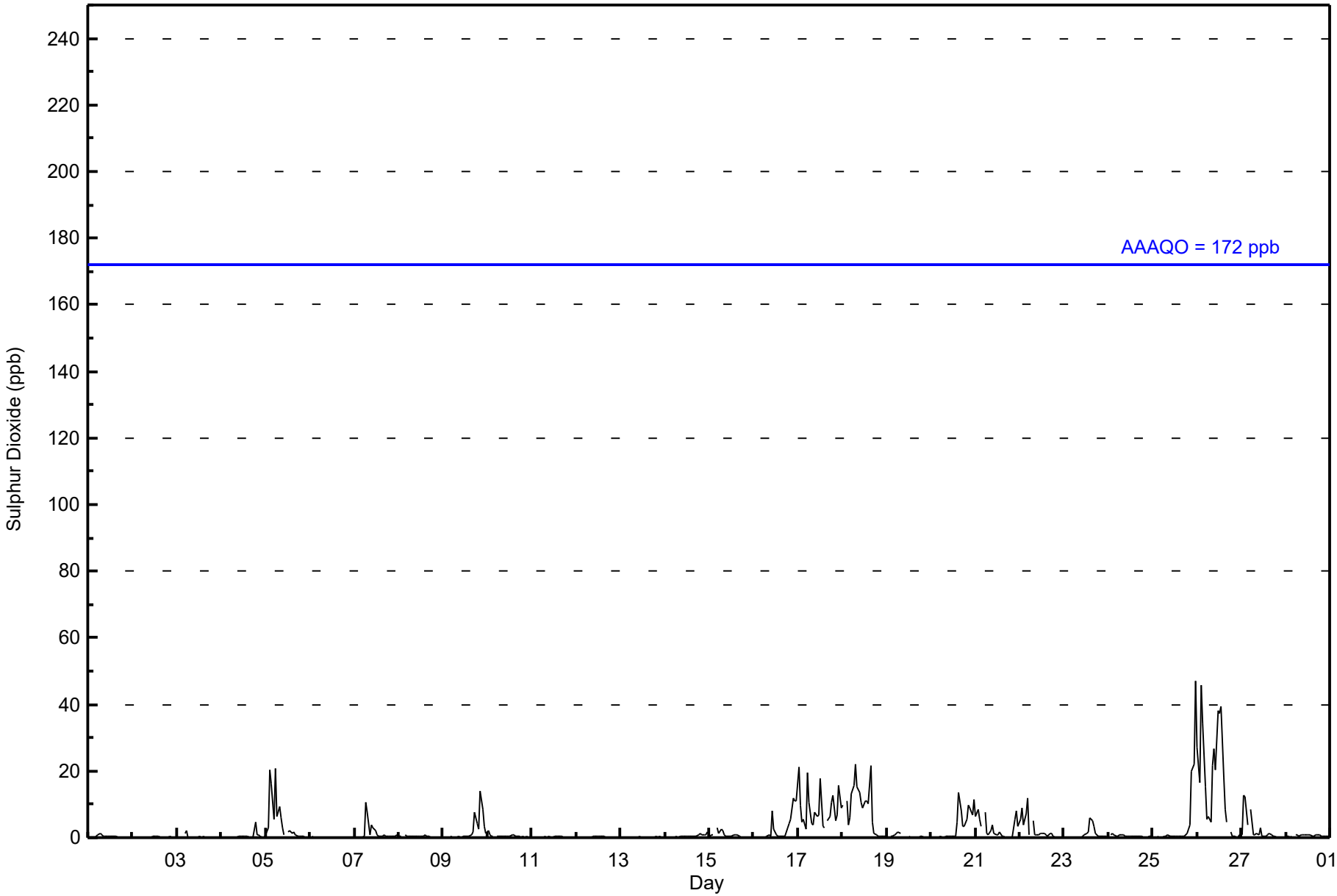
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Mannix - February 2026



Sulphur Dioxide (SO_2) - ppb

Mannix - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	597	93.28	93.28
11 - 20	29	4.53	97.81
21 - 60	14	2.19	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Mannix - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	51	46	1	5	8	5	56	116	21	8	20	18	11	9	27	30	432
11 - 20	5	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
21 - 60	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	57	53	1	5	8	5	56	116	21	8	20	18	11	9	27	30	445

Total Number of Valid Hours: 445

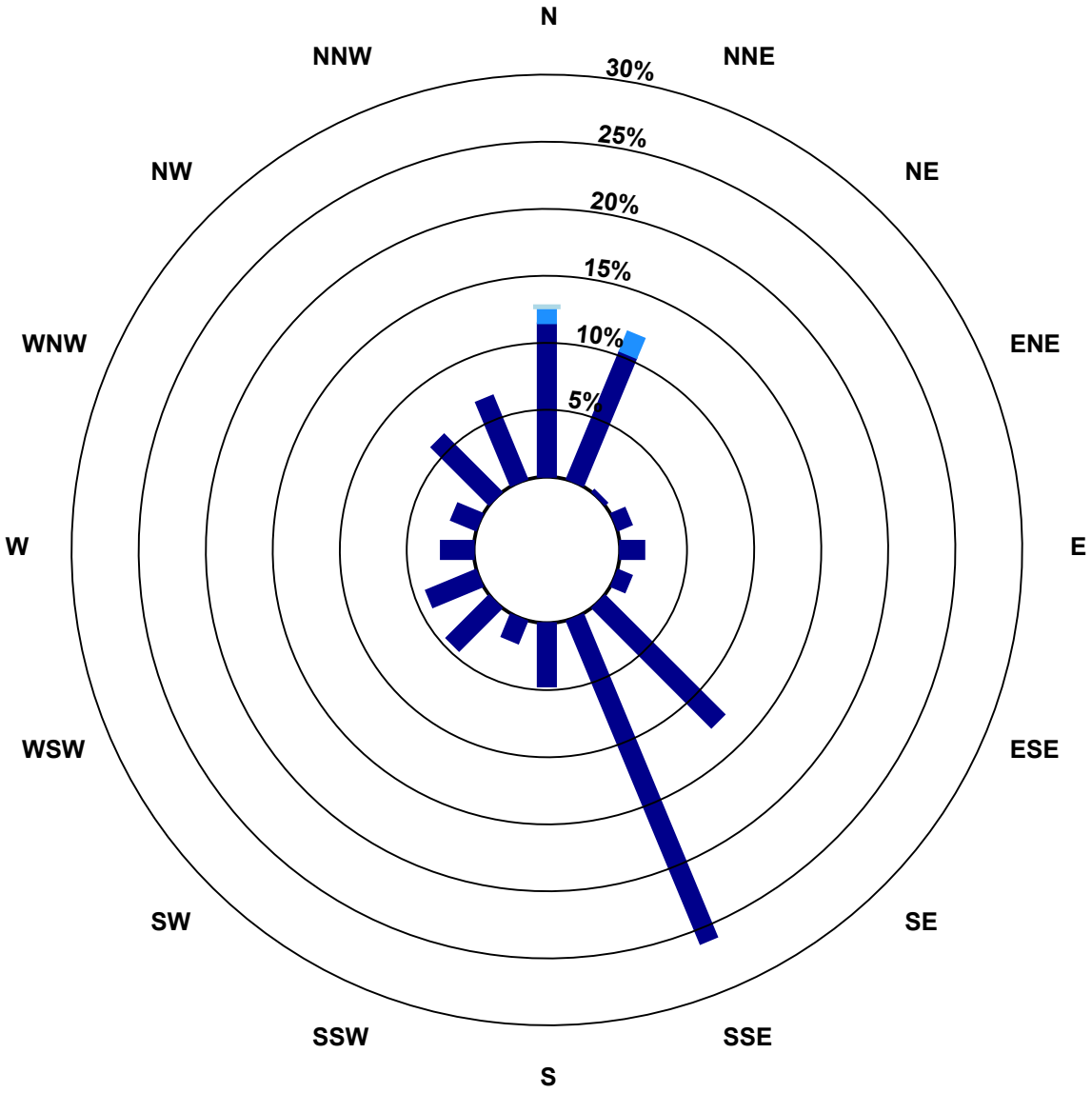
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Mannix



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

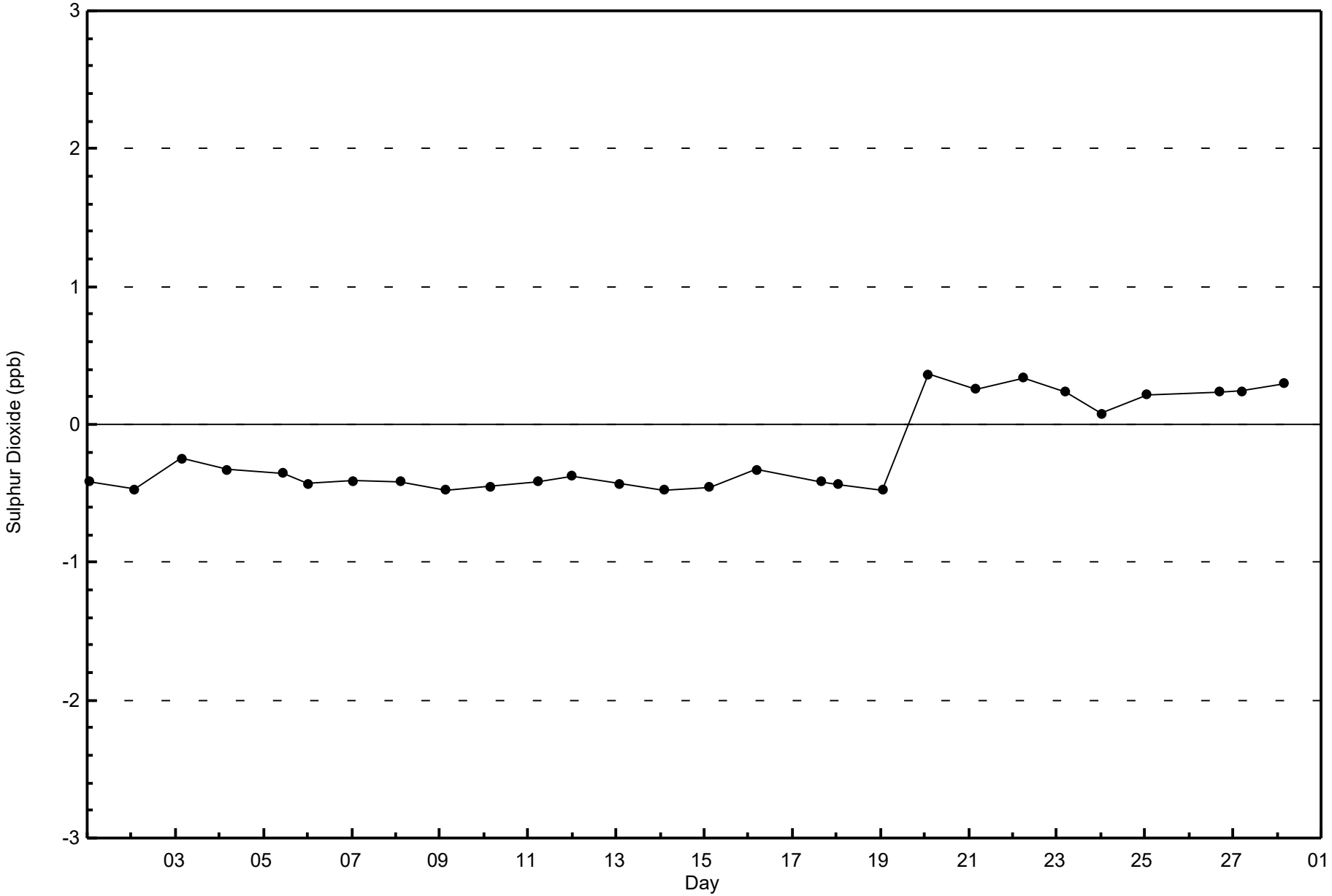
Total Number of Valid Hours: 445

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Mannix - February 2026

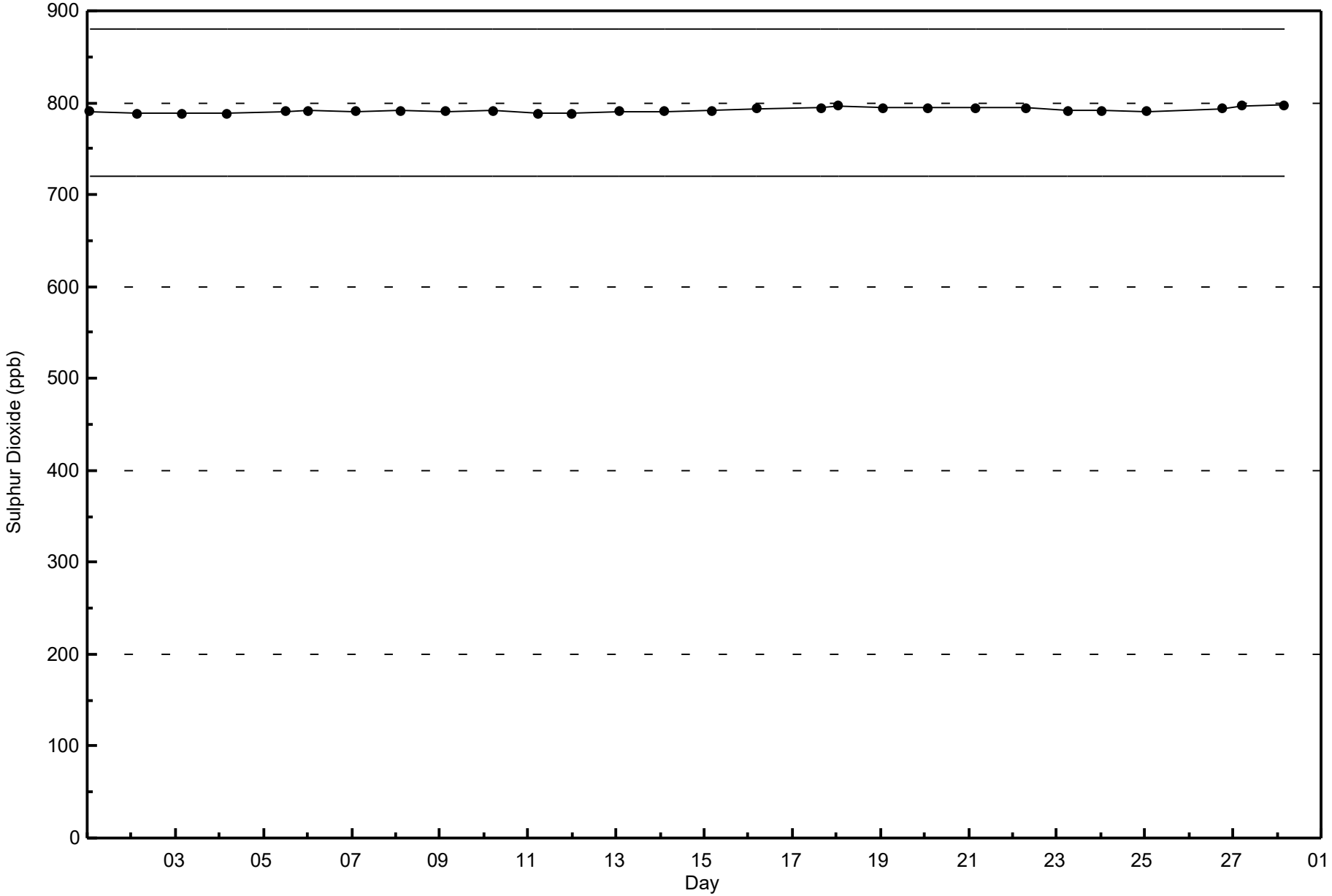


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Mannix - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 3.1 ppb on Feb 24 03:00 Maximum Daily Average: 1.0 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 17 14:00 Minimum Daily Average: 0.1 ppb on Feb 4
Maximum Diurnal Average: 0.5 ppb at hour 9 Minimum Diurnal Average: 0.3 ppb at hour 15
Monthly Average: 0.38 ppb Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.2 Median = 0.3 Q_3 = 0.4 P_{90} = 0.8 P_{99} = 2.3

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.7	0.4	Z	0.2	0.3	0.3	0.2	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.7
2-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.6	0.5	0.3	0.4	0.2	0.6
3-Feb	0.3	0.3	0.2	0.4	Z	0.4	0.3	0.3	0.4	0.3	0.4	0.4	0.6	0.6	0.5	0.4	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.3	0.6
4-Feb	0.1	0.1	0.1	0.1	0.2	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2
5-Feb	Z	0.2	0.5	0.3	0.3	1.0	1.1	0.4	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.2	0.3	1.1
6-Feb	0.3	Z	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.7	0.2	0.7
7-Feb	0.5	0.6	Z	0.7	0.6	0.3	0.4	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.4	0.5	0.6	0.6	0.3	0.7
8-Feb	0.3	0.3	0.5	Z	0.3	0.4	0.5	0.6	1.1	1.1	1.1	0.8	0.5	0.2	0.2	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.3	0.4	1.1
9-Feb	0.3	0.4	0.3	0.9	Z	1.0	0.5	0.6	0.6	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.4	1.0
10-Feb	0.4	0.3	0.2	0.2	0.3	Z	0.5	0.5	0.6	1.2	2.2	2.4	1.6	0.8	0.4	0.3	0.3	0.4	0.3	0.5	0.4	0.5	0.3	0.3	0.6	2.4
11-Feb	Z	0.3	0.2	0.2	0.2	0.3	0.1	0.6	0.3	0.5	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.4	0.3	0.2	0.3	0.2	0.1	0.3	0.6
12-Feb	0.2	Z	0.0	0.1	0.2	0.3	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.4
13-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.4	0.5	0.6	0.2	0.6
14-Feb	0.8	0.5	0.3	Z	0.3	0.3	0.5	0.2	0.5	0.4	0.4	0.3	0.9	1.1	0.8	0.8	0.5	0.9	2.1	2.5	2.4	2.2	2.2	1.4	1.0	2.5
15-Feb	0.7	0.3	0.5	0.4	Z	0.3	0.5	0.6	0.3	0.3	0.3	0.3	0.2	0.4	0.2	0.2	0.2	0.2	0.1	0.3	0.2	0.1	0.2	0.2	0.3	0.7
16-Feb	0.2	0.2	0.2	0.2	0.3	Z	0.7	0.8	1.0	1.1	2.5	1.5	0.3	0.4	0.4	0.4	0.2	0.1	0.5	0.3	0.2	0.6	0.7	0.3	0.6	2.5
17-Feb	0.8	0.8	0.1	0.1	Z	0.5	0.4	C	C	C	C	0.4	0.2	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.4	0.2	0.2	0.8
18-Feb	0.2	0.4	0.5	0.2	0.2	Z	0.9	0.5	0.3	0.3	0.1	0.1	0.3	0.3	0.5	0.9	0.3	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.3	0.9
19-Feb	0.2	0.4	Z	0.5	0.4	0.4	0.4	0.4	M	0.4	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.7
20-Feb	0.3	0.3	0.3	Z	0.3	0.6	0.3	0.6	0.6	0.4	0.3	0.2	0.3	0.8	0.5	1.2	1.4	0.8	0.5	0.2	0.5	0.6	0.4	1.0	0.5	1.4
21-Feb	0.8	0.4	0.3	0.4	0.5	0.8	0.3	Z	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.3	0.8
22-Feb	0.1	0.7	0.3	0.5	1.1	0.2	0.5	Z	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.5	0.7	0.7	0.3	0.2	0.2	0.2	0.2	0.4	1.1
23-Feb	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.6	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	0.3	1.1
24-Feb	2.6	Z	3.1	2.8	1.3	0.7	1.3	0.9	0.9	0.6	0.3	0.2	0.2	0.2	0.3	0.3	0.4	1.7	1.1	0.3	0.1	0.2	0.3	0.2	0.9	3.1
25-Feb	0.2	0.3	Z	0.3	0.4	0.5	0.6	0.9	1.3	0.5	0.3	0.3	0.2	0.2	0.2	0.3	0.5	0.8	0.5	0.6	0.5	0.3	0.3	0.8	0.5	1.3
26-Feb	0.3	0.2	1.2	0.9	0.8	0.9	2.0	0.8	1.8	1.5	1.4	1.1	1.2	0.8	0.3	0.2	0.3	0.1	Z	0.1	0.1	0.1	0.1	0.2	0.7	2.0
27-Feb	0.2	0.3	0.2	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.2	0.3	0.3	0.4	0.7	0.2	0.7
28-Feb	0.8	0.9	1.1	0.8	0.6	Z	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.3	0.2	0.6	0.3	0.3	0.2	0.4	1.1
	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.4	Diurnal Average	
	2.6	0.9	3.1	2.8	1.3	1.0	2.0	0.9	1.8	1.5	2.5	2.4	1.6	1.1	0.8	1.2	1.4	1.7	2.1	2.5	2.4	2.2	2.2	1.4	Diurnal Maximum	

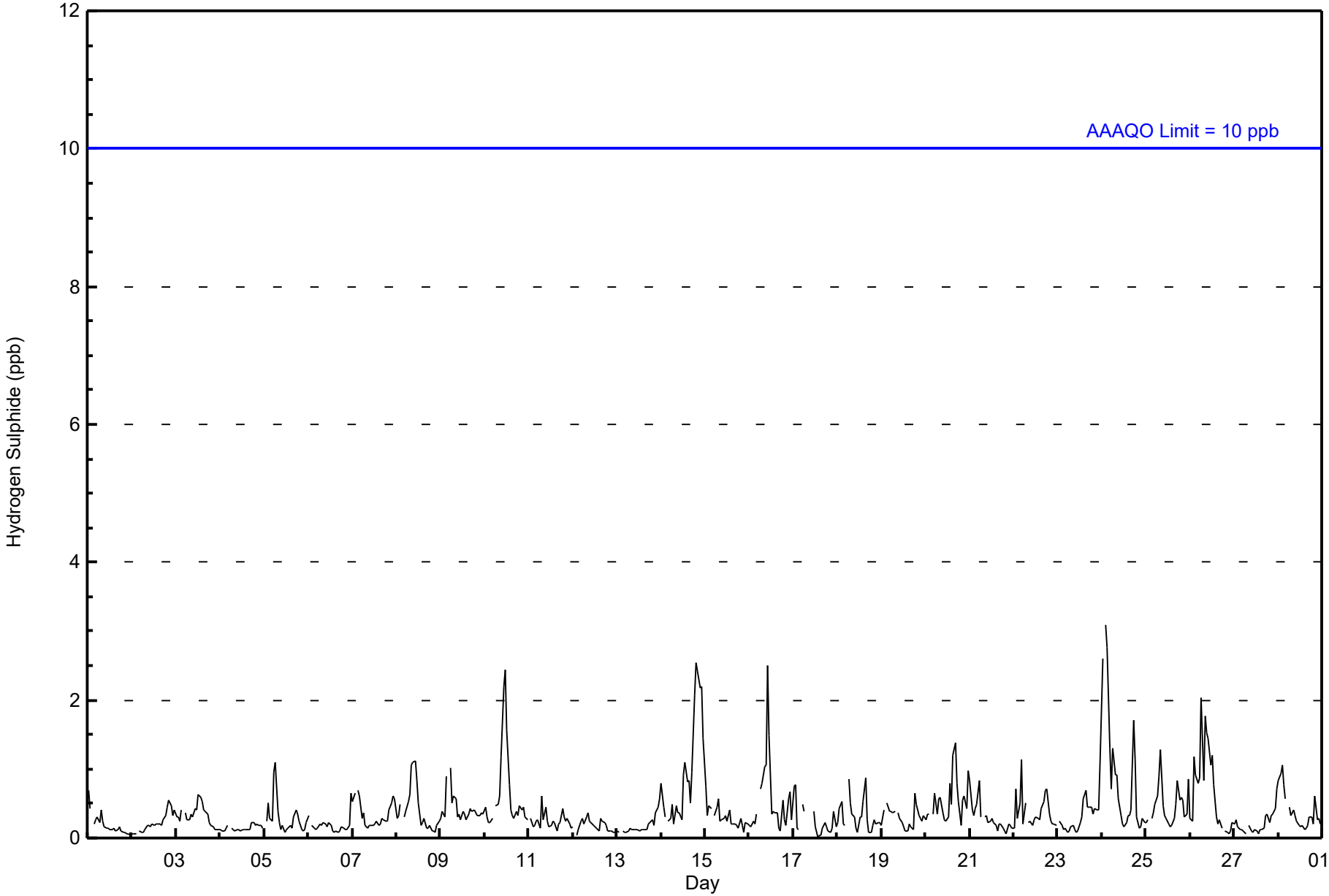
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Mannix - February 2026



Hydrogen Sulphide (H_2S) - ppb

Mannix - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	635	99.37	99.37
3 - 4	4	0.63	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Mannix - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	55	52	1	6	7	5	56	118	20	8	20	17	11	7	28	30	441
3 - 4	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	1	4
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	55	52	1	6	7	5	56	120	20	8	20	17	11	8	28	31	445

Total Number of Valid Hours: 445

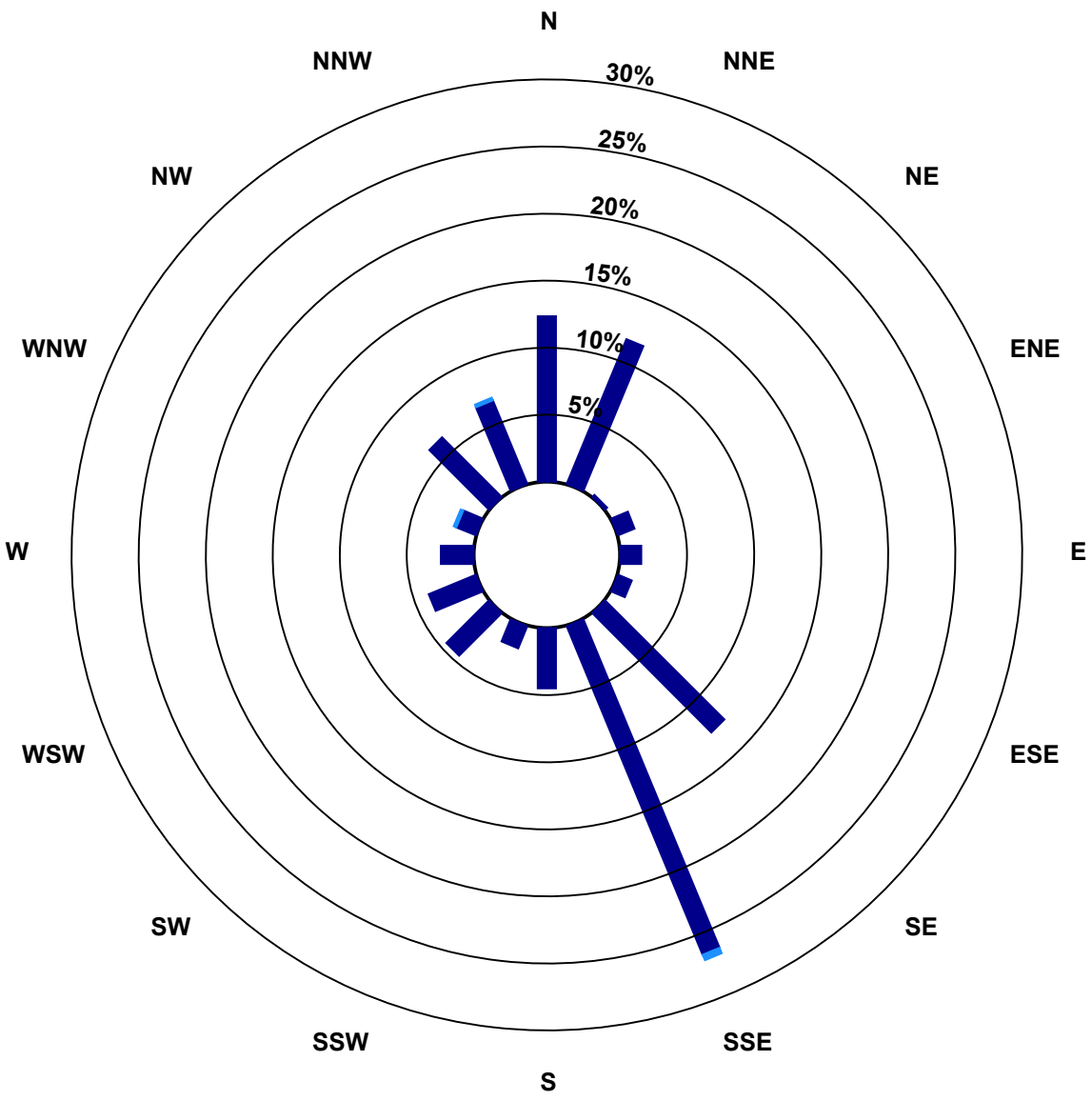
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Mannix



Classes (ppb)

- 0 - 2
- 3 - 4
- 5 - 7
- 8 - 11
- > 11

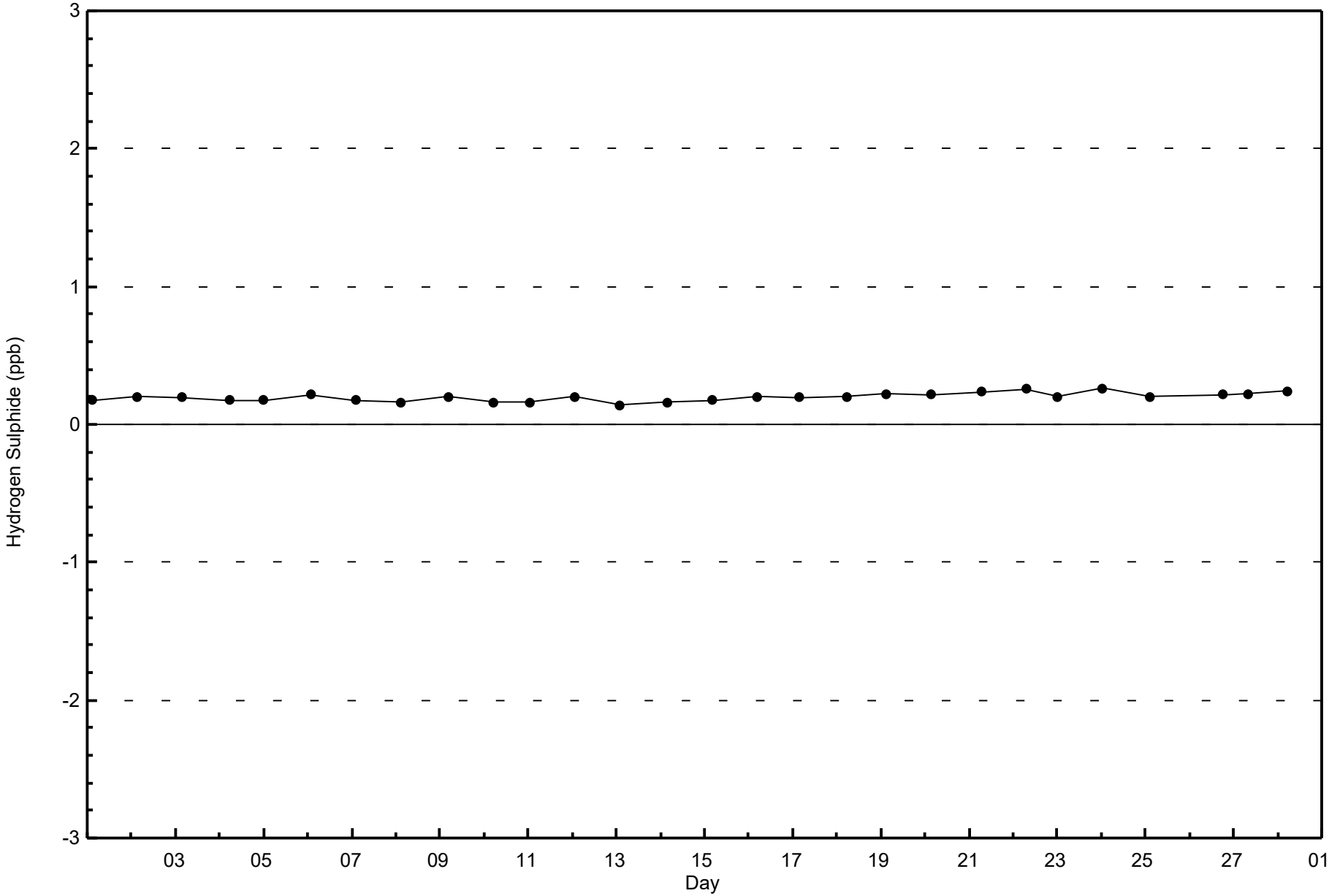
Total Number of Valid Hours: 445

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Mannix - February 2026

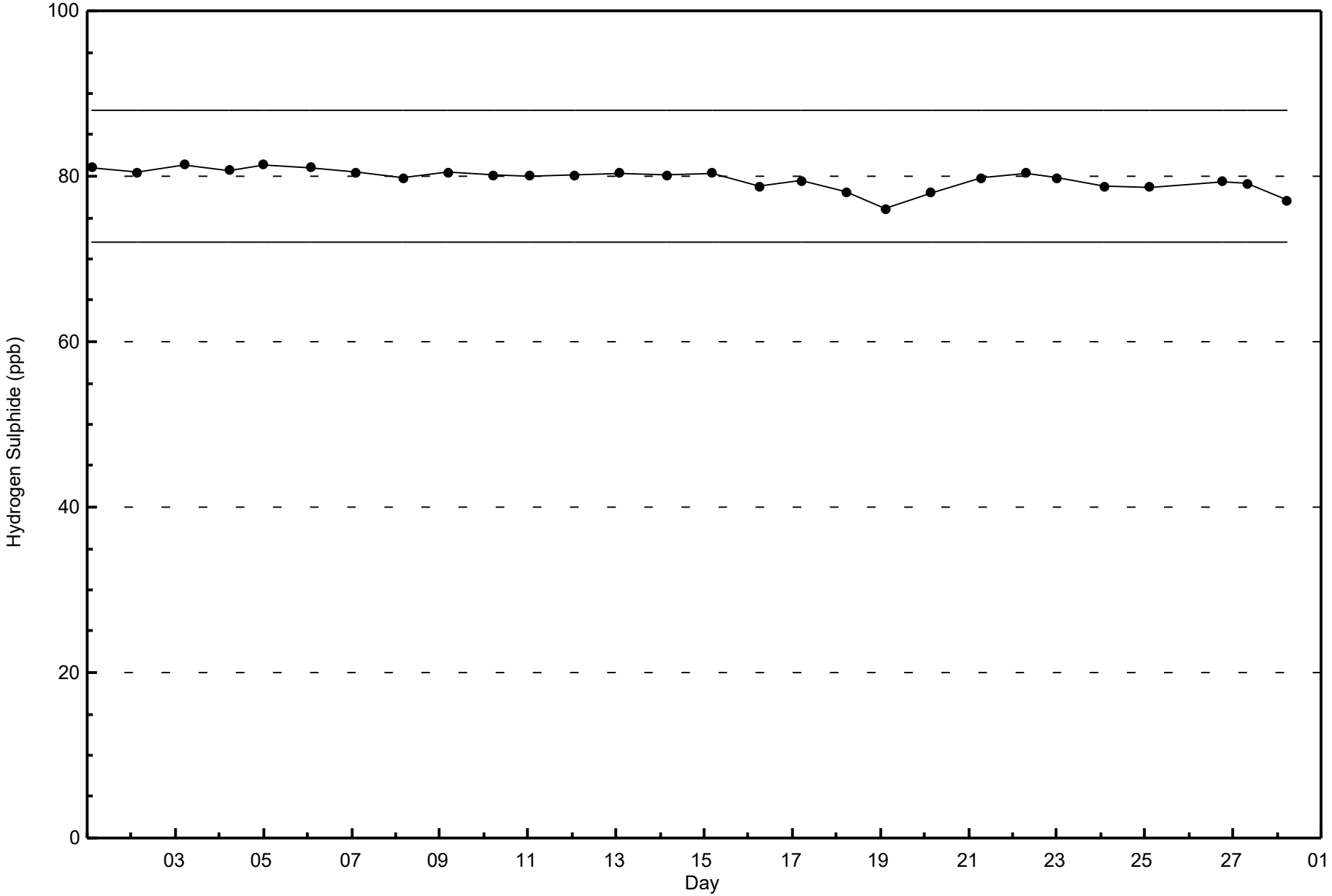


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Mannix - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Mannix - February 2026

Maximum Value: 4.6 ppm on Feb 25 08:00

Maximum Daily Average: 2.5 ppm on Feb 14

Minimum Value: 1.9 ppm on Feb 12 21:00

Minimum Daily Average: 2.0 ppm on Feb 12

Maximum Diurnal Average: 2.2 ppm at hour 8

Minimum Diurnal Average: 2.1 ppm at hour 1

Monthly Average: 2.12 ppm

Percentiles: P_1 = 1.9 P_{10} = 2.0 Q_1 = 2.0 Median = 2.0 Q_3 = 2.1 P_{90} = 2.3 P_{99} = 3.5

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.3	Z	2.0	2.0	2.0	2.0	2.0	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3
2-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	3.4	2.7	2.3	2.2	2.2	2.1	3.4
3-Feb	2.1	2.1	2.1	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.4	2.2	2.3	2.2	2.3	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.4
4-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1
5-Feb	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	Z	2.0	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.1
6-Feb	Z	2.2	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.1	2.3
7-Feb	2.3	Z	2.5	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.5
8-Feb	2.1	2.1	Z	2.7	2.4	2.3	2.6	2.6	3.1	3.1	3.0	3.0	2.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	3.1
9-Feb	2.1	2.1	2.1	Z	2.6	2.7	2.3	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.7
10-Feb	2.0	2.0	2.2	2.1	Z	2.6	2.7	2.5	2.2	2.4	2.6	2.4	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.7
11-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0
12-Feb	Z	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0
13-Feb	1.9	Z	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.4	2.1	2.0	2.4
14-Feb	2.4	2.2	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.5	2.2	3.6	2.4	2.8	3.5	3.9	3.4	3.3	2.6	2.5	3.9
15-Feb	2.2	2.1	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2
16-Feb	2.0	2.1	2.3	2.1	Z	2.0	2.1	2.1	2.2	2.2	2.3	2.1	2.2	2.4	2.3	2.2	2.0	2.1	2.0	2.1	2.1	2.2	2.1	2.0	2.1	2.4
17-Feb	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
18-Feb	2.0	Z	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.4	2.2	2.1	2.0	2.1	2.4
19-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.1	C	C	C	C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.1
20-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.5	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.5
21-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.3
22-Feb	2.0	2.0	2.0	2.0	2.1	2.1	Z	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.5	2.5	2.6	2.3	2.2	2.1	2.1	2.0	2.0	2.2	2.6
23-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.1	2.1	3.0	2.1	3.0
24-Feb	Z	4.0	4.1	3.8	2.6	2.2	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.2	2.1	2.0	2.0	2.1	2.0	2.4	4.1
25-Feb	2.0	Z	2.1	2.1	2.1	2.4	3.9	4.6	3.2	2.3	2.1	2.1	2.0	2.0	2.1	2.1	2.2	2.3	2.8	2.3	2.3	2.2	2.1	2.1	2.4	4.6
26-Feb	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1
27-Feb	2.0	2.1	2.2	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.1	2.2	2.1	2.1	2.2	2.1	2.3
28-Feb	2.1	2.1	2.1	2.1	Z	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	Diurnal Average	
	2.4	4.0	4.1	3.8	2.6	2.7	3.9	4.6	3.2	3.1	3.0	3.0	2.5	2.4	2.5	2.5	3.6	2.6	2.8	3.5	3.9	3.4	3.3	3.0	Diurnal Maximum	

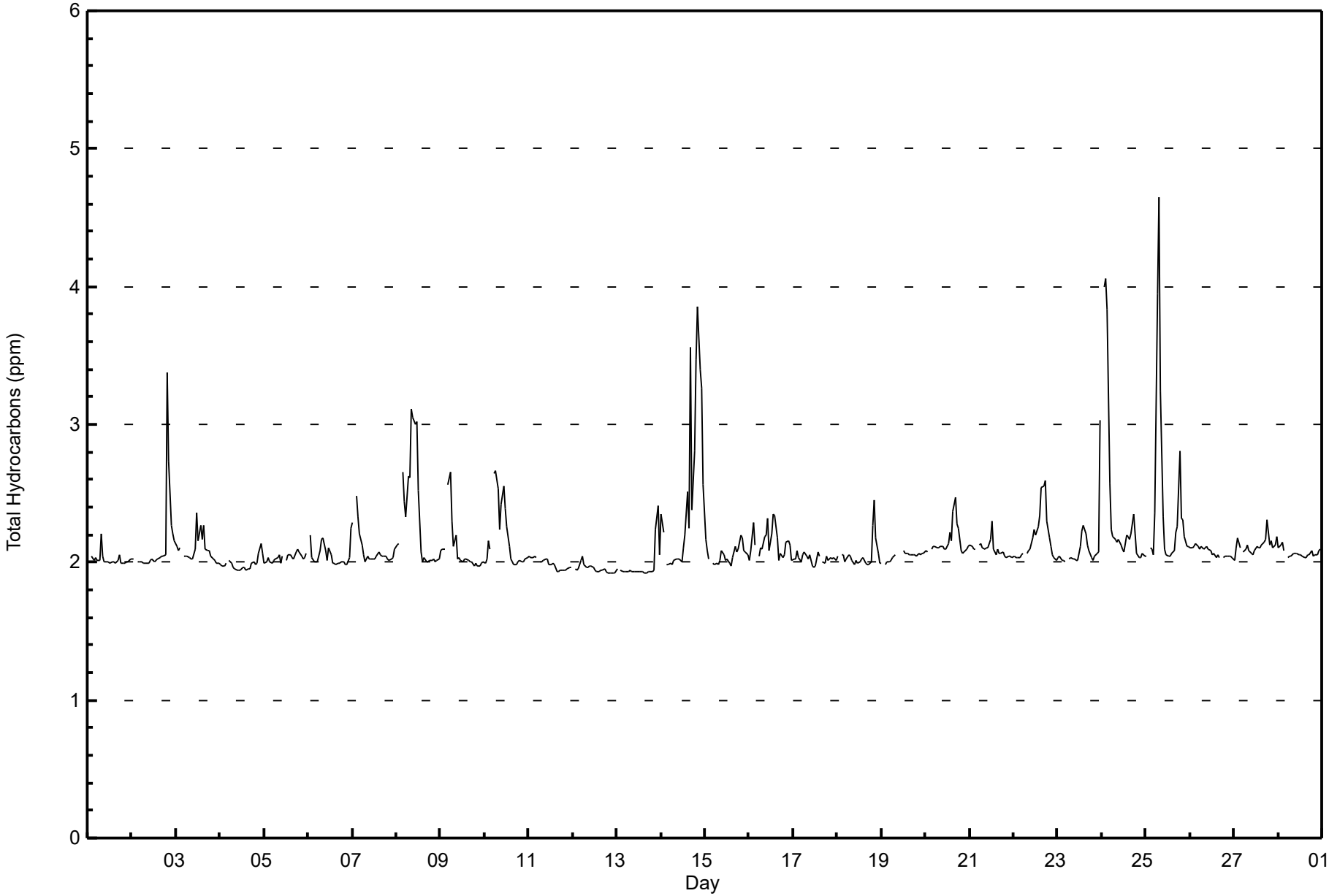
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Mannix - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	329	51.41	51.41
2.1 - 3.0	297	46.41	97.81
3.1 - 10.0	14	2.19	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Mannix - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	41	21	0	0	2	0	40	65	18	7	15	17	3	1	1	9	240
2.1 - 3.0	16	32	1	5	6	4	16	48	3	0	4	1	8	4	23	20	191
3.1 - 10.0	0	0	0	0	0	1	0	3	0	1	1	0	0	4	3	1	14
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	57	53	1	5	8	5	56	116	21	8	20	18	11	9	27	30	445

Total Number of Valid Hours: 445

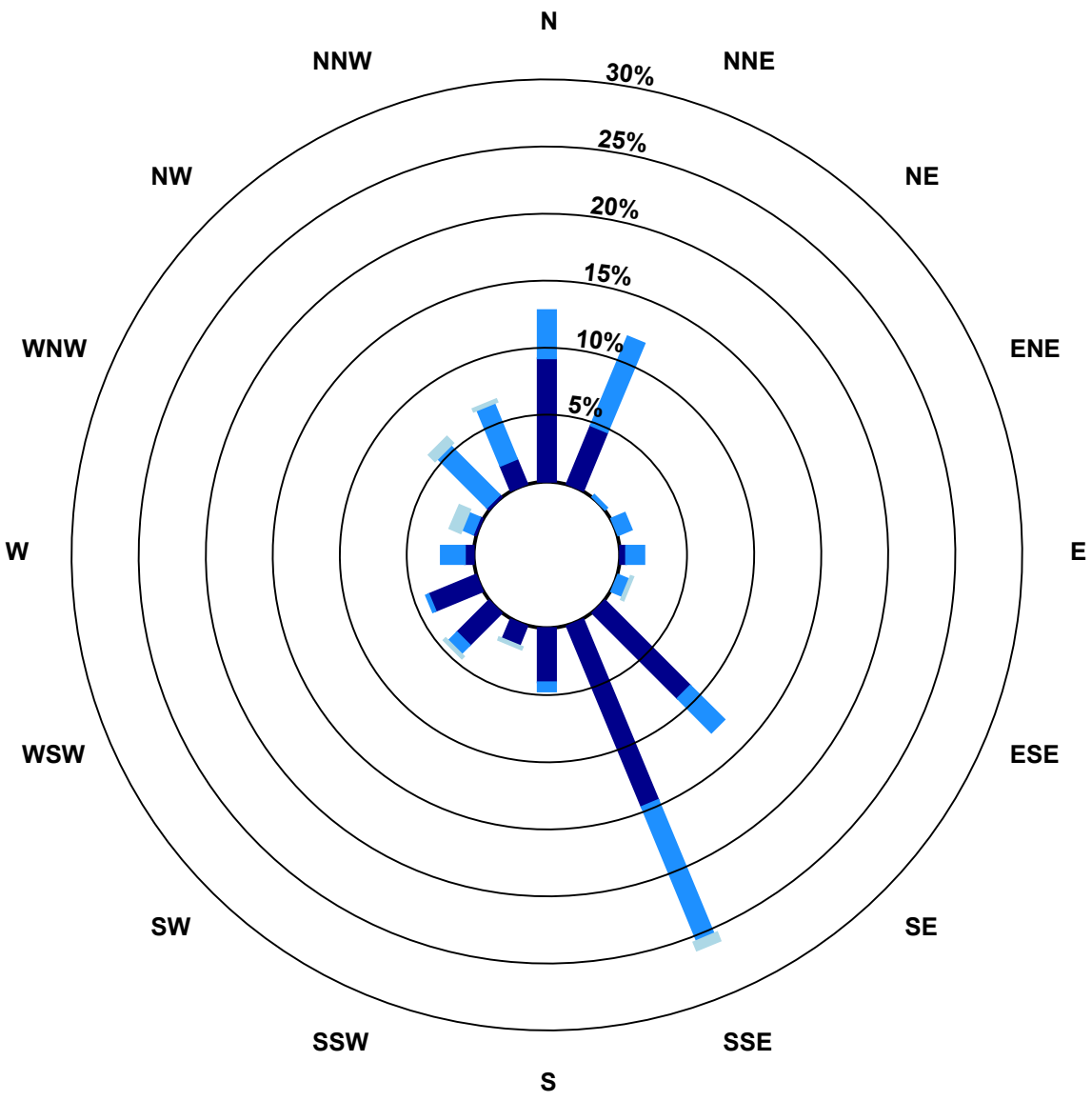
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Mannix



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

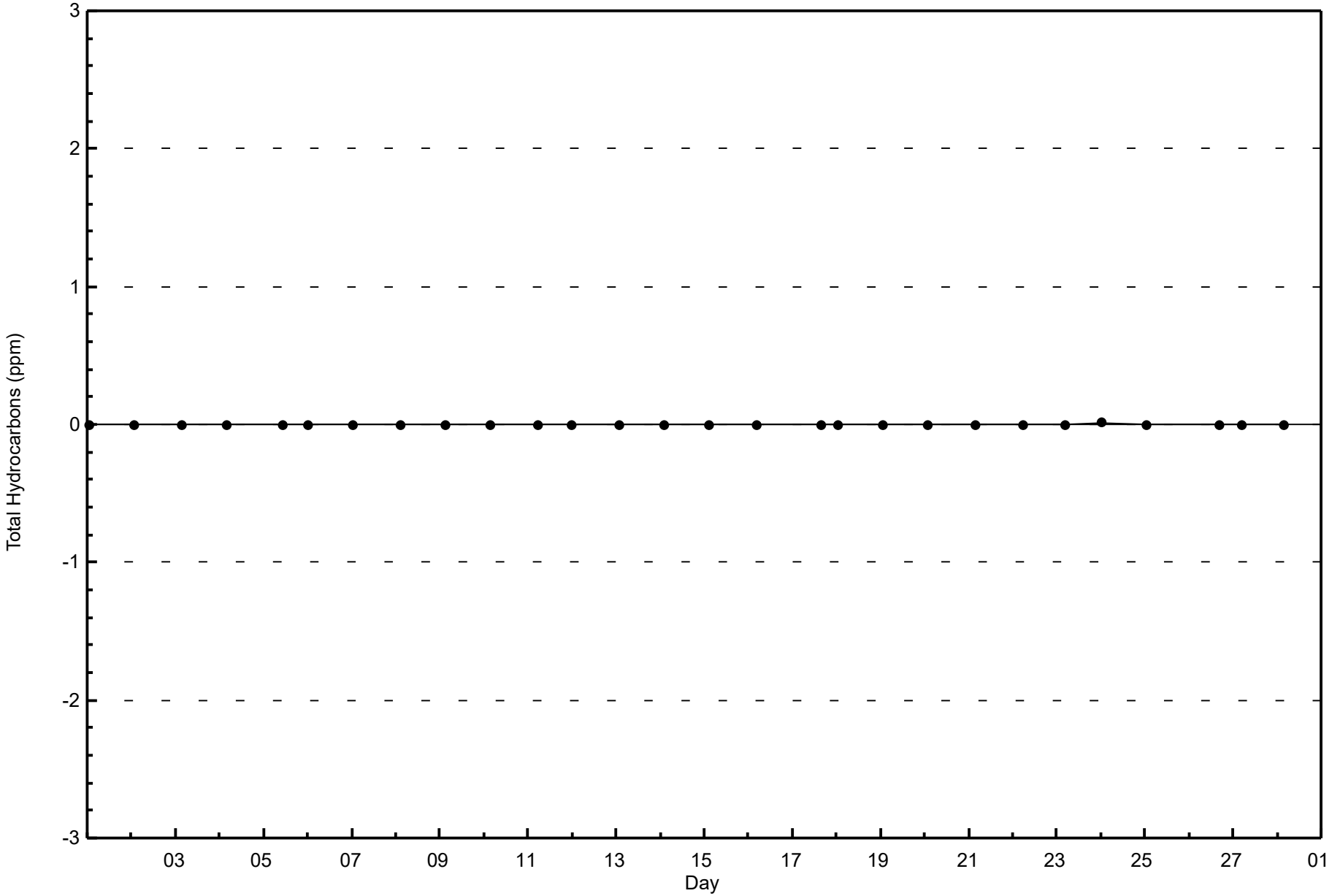
Total Number of Valid Hours: 445

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Mannix - February 2026

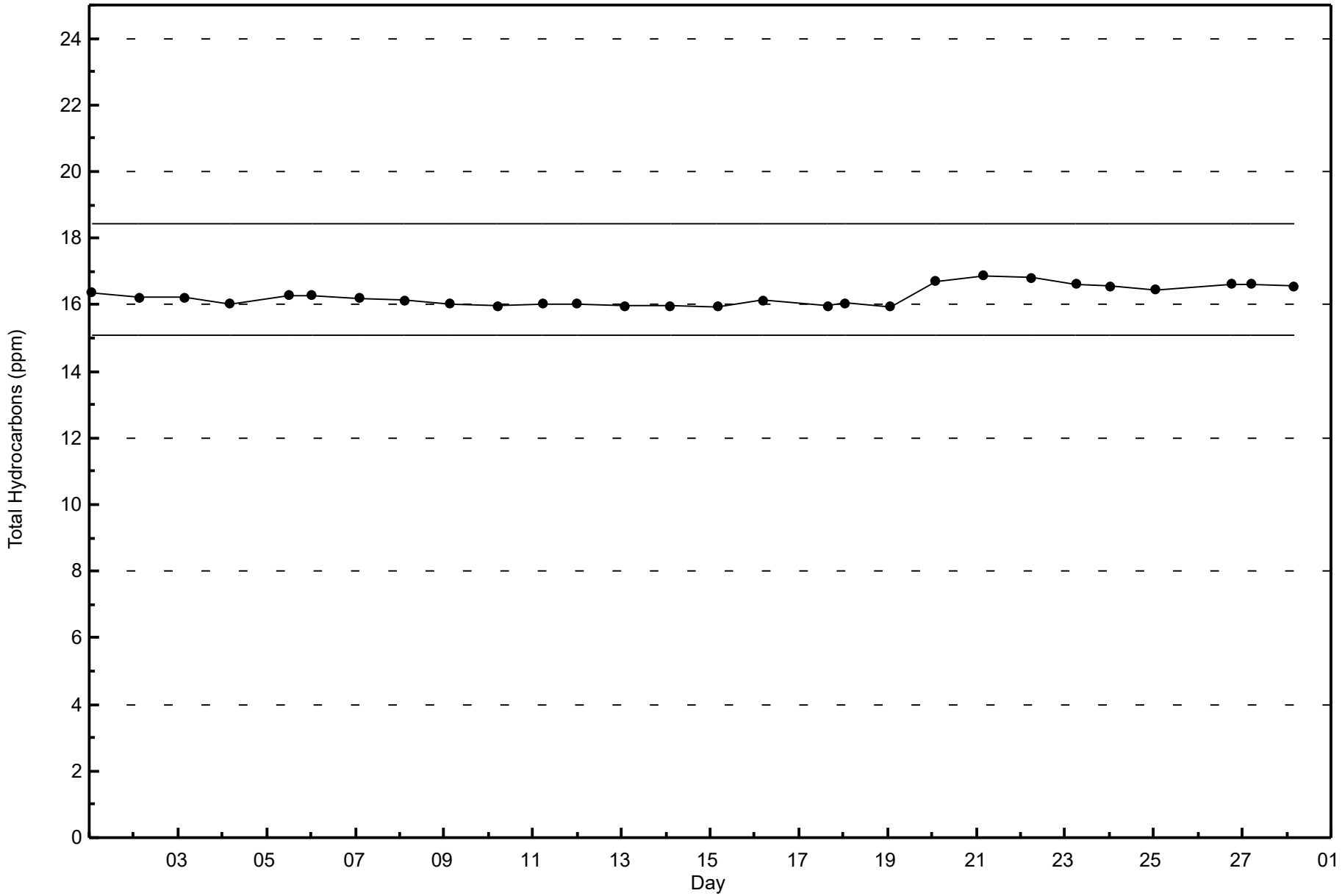


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Mannix - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Mannix - February 2026

Maximum Value: 1.267 ppm on Feb 14 17:00

Maximum Daily Average: 0.137 ppm on Feb 14

Minimum Value: 0.000 ppm on Feb 12 21:00

Minimum Daily Average: 0.001 ppm on Feb 13

Maximum Diurnal Average: 0.057 ppm at hour 17

Minimum Diurnal Average: 0.011 ppm at hour 5

Monthly Average: 0.024 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.1 P_{99} = 0.2

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.156	Z	0.006	0.001	0.001	0.000	0.001	0.001	0.003	0.001	0.004	0.001	0.001	0.001	0.003	0.002	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.008	0.156
2-Feb	0.002	0.001	Z	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.002	0.001	0.001	0.001	0.001	0.009	0.027	0.009	0.053	0.010	0.028	0.007	0.053
3-Feb	0.019	0.016	0.053	Z	0.009	0.024	0.026	0.013	0.014	0.007	0.007	0.004	0.049	0.048	0.000	0.127	0.002	0.002	0.001	0.002	0.001	0.002	0.001	0.001	0.019	0.127
4-Feb	0.002	0.001	0.001	0.002	Z	0.020	0.012	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.010	0.030	0.019	0.004	0.069	0.150	0.071	0.017	0.150
5-Feb	0.003	0.010	0.007	0.008	0.005	0.012	0.002	0.011	0.058	0.000	0.062	Z	0.015	0.007	0.001	0.003	0.011	0.013	0.008	0.003	0.030	0.003	0.005	0.019	0.013	0.062
6-Feb	Z	0.011	0.001	0.000	0.000	0.001	0.001	0.072	0.042	0.047	0.001	0.009	0.001	0.004	0.002	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.007	0.009	0.009	0.072
7-Feb	0.001	Z	0.010	0.005	0.009	0.050	0.048	0.015	0.051	0.030	0.029	0.035	0.042	0.050	0.057	0.014	0.000	0.011	0.024	0.011	0.003	0.000	0.000	0.001	0.022	0.057
8-Feb	0.001	0.001	Z	0.001	0.002	0.003	0.041	0.115	0.198	0.088	0.206	0.154	0.029	0.000	0.000	0.002	0.001	0.002	0.005	0.003	0.002	0.010	0.004	0.002	0.038	0.206
9-Feb	0.003	0.002	0.001	Z	0.026	0.055	0.014	0.026	0.021	0.015	0.008	0.000	0.004	0.009	0.025	0.001	0.002	0.014	0.001	0.022	0.001	0.002	0.000	0.001	0.011	0.055
10-Feb	0.000	0.000	0.001	0.000	Z	0.001	0.001	0.003	0.005	0.011	0.011	0.009	0.012	0.002	0.001	0.003	0.002	0.002	0.003	0.001	0.001	0.001	0.001	0.001	0.003	0.012
11-Feb	0.002	0.002	0.002	0.002	0.000	Z	0.001	0.002	0.004	0.003	0.024	0.002	0.005	0.011	0.014	0.000	0.001	0.001	0.003	0.004	0.002	0.001	0.004	0.003	0.004	0.024
12-Feb	Z	0.000	0.000	0.002	0.031	0.073	0.028	0.016	0.020	0.015	0.005	0.005	0.001	0.001	0.001	0.000	0.004	0.003	0.001	0.000	0.000	0.001	0.001	0.000	0.009	0.073
13-Feb	0.000	Z	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.028	0.002	0.000	0.001	0.028
14-Feb	0.290	0.204	Z	0.001	0.000	0.002	0.001	0.001	0.001	0.003	0.011	0.003	0.084	0.116	0.045	0.086	1.267	0.047	0.165	0.227	0.210	0.153	0.153	0.071	0.137	1.267
15-Feb	0.034	0.009	0.059	Z	0.020	0.040	0.006	0.000	0.054	0.126	0.080	0.048	0.065	0.028	0.001	0.000	0.001	0.049	0.105	0.192	0.172	0.108	0.092	0.074	0.059	0.192
16-Feb	0.014	0.016	0.000	0.000	Z	0.003	0.007	0.003	0.003	0.037	0.038	0.030	0.002	0.023	0.032	0.004	0.005	0.074	0.015	0.047	0.135	0.149	0.114	0.007	0.033	0.149
17-Feb	0.005	0.017	0.100	0.060	0.035	0.087	0.122	0.095	0.070	0.116	0.035	0.025	0.025	0.126	0.097	Z	0.050	0.047	0.091	0.045	0.054	0.049	0.052	0.052	0.063	0.126
18-Feb	0.090	Z	0.092	0.093	0.048	0.065	0.083	0.068	0.038	0.012	0.047	0.027	0.039	0.057	0.073	0.027	0.003	0.000	0.000	0.001	0.005	0.000	0.000	0.000	0.038	0.093
19-Feb	0.000	Z	0.000	0.000	0.000	0.001	0.000	0.005	C	C	C	C	0.004	0.007	0.008	0.001	0.000	0.000	0.000	0.000	0.002	0.000	0.001	0.000	0.002	0.008
20-Feb	0.001	0.001	Z	0.002	0.000	0.001	0.001	0.000	0.001	0.025	0.010	0.006	0.041	0.119	0.044	0.005	0.008	0.018	0.041	0.002	0.000	0.000	0.002	0.001	0.014	0.119
21-Feb	0.031	0.031	0.000	0.000	Z	0.020	0.041	0.012	0.000	0.000	0.022	0.002	0.001	0.000	0.016	0.059	0.032	0.033	0.040	0.015	0.012	0.015	0.015	0.012	0.018	0.059
22-Feb	0.018	0.001	0.000	0.000	0.002	0.000	Z	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.004	0.088	0.094	0.058	0.087	0.020	0.007	0.002	0.002	0.003	0.017	0.094
23-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.001	0.000	0.000	0.000	0.000	0.000	0.009	0.125	0.081	0.031	0.003	0.000	0.001	0.000	0.003	0.002	0.008	0.014	0.012	0.125
24-Feb	Z	0.109	0.133	0.112	0.049	0.016	0.006	0.003	0.001	0.002	0.001	0.001	0.002	0.083	0.036	0.017	0.041	0.207	0.062	0.000	0.000	0.001	0.001	0.002	0.038	0.207
25-Feb	0.000	Z	0.005	0.002	0.001	0.005	0.009	0.034	0.021	0.002	0.014	0.001	0.001	0.001	0.003	0.014	0.060	0.087	0.002	0.057	0.052	0.009	0.002	0.011	0.017	0.087
26-Feb	0.015	0.036	0.016	0.050	0.002	0.002	0.005	0.003	0.006	0.003	0.003	0.005	0.002	0.024	0.011	0.027	0.004	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.050
27-Feb	0.001	0.082	0.142	0.097	Z	0.069	0.082	0.106	0.049	0.034	0.011	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.007	0.100	0.084	0.006	0.002	0.001	0.038	0.142
28-Feb	0.001	0.002	0.001	0.003	Z	0.001	0.000	0.001	0.002	0.001	0.001	0.001	0.002	0.004	0.000	0.001	0.011	0.008	0.040	0.000	0.001	0.001	0.002	0.001	0.004	0.040
	0.027	0.025	0.026	0.018	0.011	0.021	0.020	0.022	0.025	0.021	0.023	0.014	0.016	0.030	0.020	0.019	0.057	0.026	0.026	0.029	0.028	0.024	0.022	0.014	Diurnal Average	
	0.290	0.204	0.142	0.112	0.049	0.087	0.122	0.115	0.198	0.126	0.206	0.154	0.084	0.126	0.097	0.127	1.267	0.207	0.165	0.227	0.210	0.153	0.153	0.074	Diurnal Maximum	

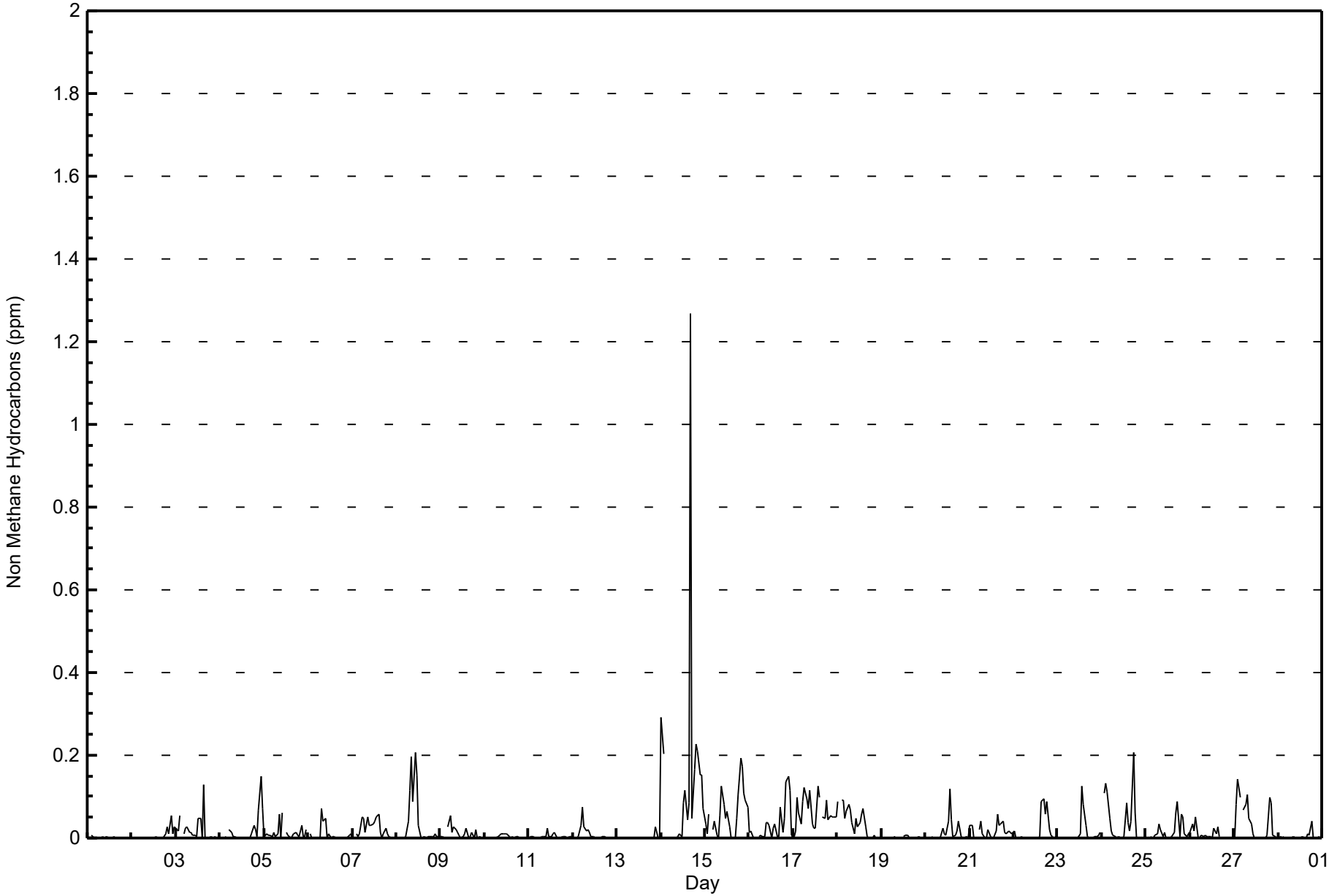
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Mannix - February 2026



Non Methane Hydrocarbons (NMHC) - ppm

Mannix - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	369	57.66	57.66
0.006 - 0.05	187	29.22	86.88
0.06 - 0.1	68	10.63	97.50
> 0.1	16	2.50	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Mannix - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	21	0	0	0	1	0	48	97	18	6	14	18	6	3	16	24	272
0.006 - 0.05	32	28	1	2	4	1	7	14	3	2	4	0	5	2	5	4	114
0.06 - 0.1	4	24	0	2	2	3	1	3	0	0	2	0	0	1	4	0	46
> 0.1	0	1	0	1	1	1	0	2	0	0	0	0	0	3	2	2	13
Totals	57	53	1	5	8	5	56	116	21	8	20	18	11	9	27	30	445

Total Number of Valid Hours: 445

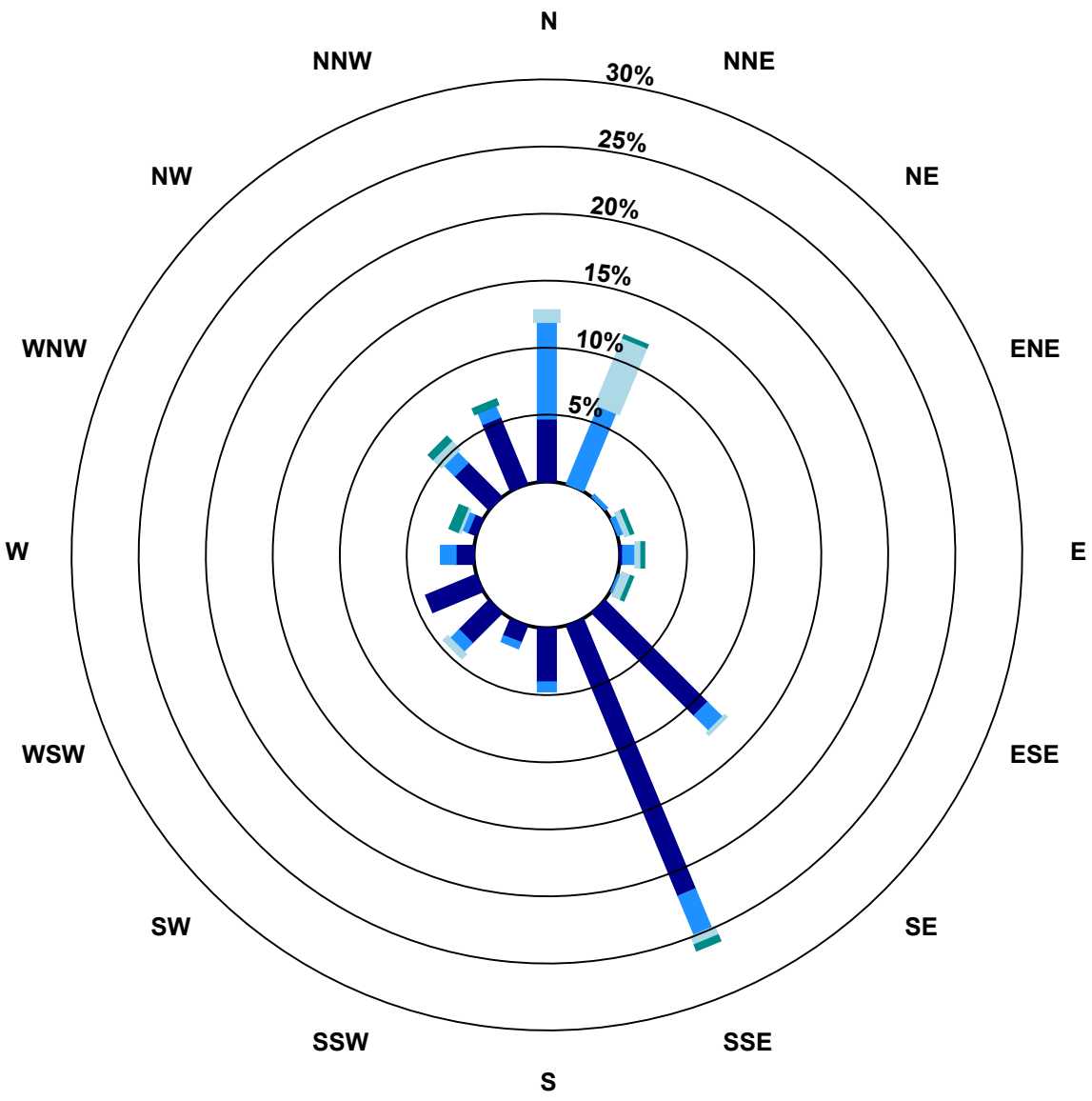
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Mannix



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

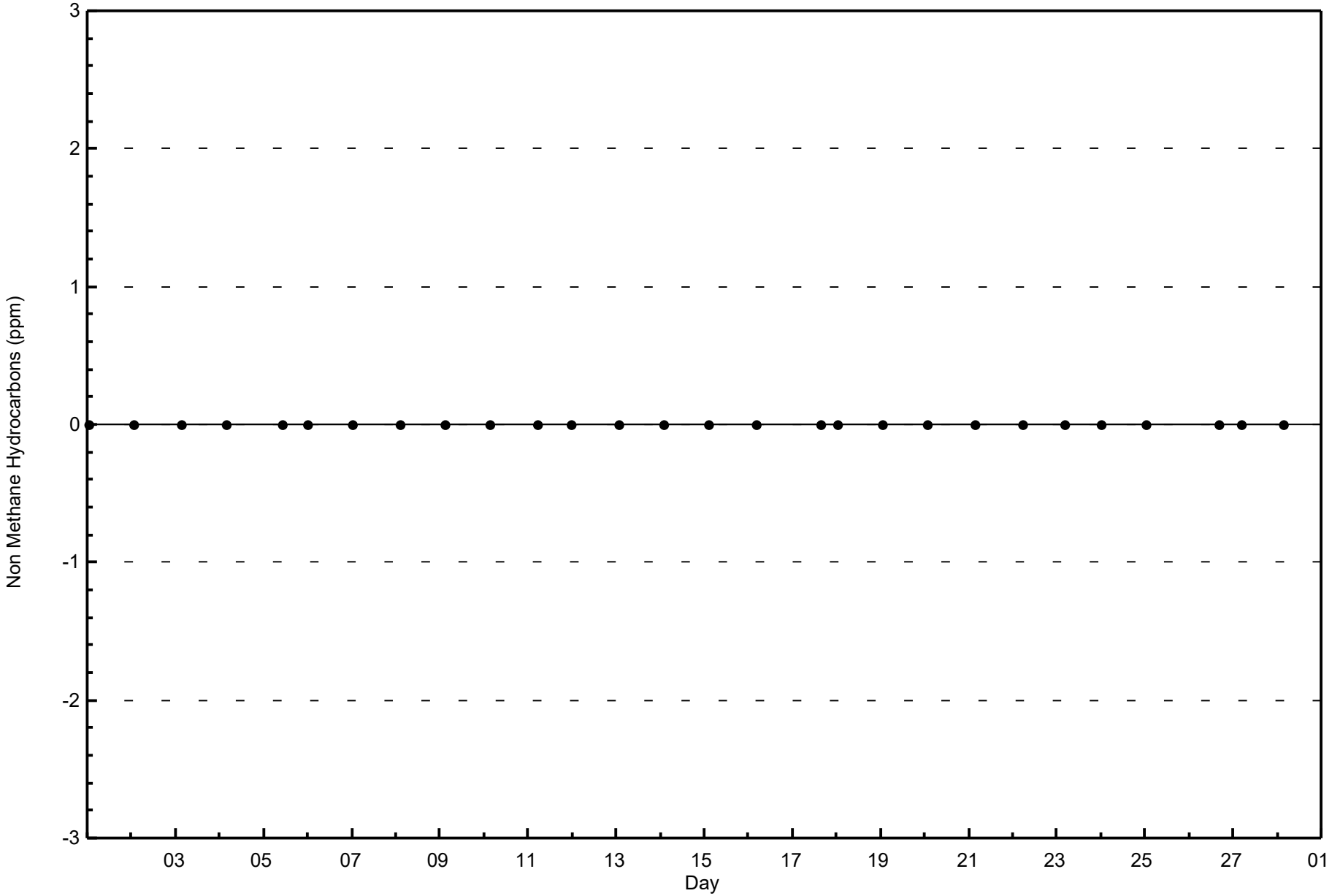
Total Number of Valid Hours: 445

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Mannix - February 2026

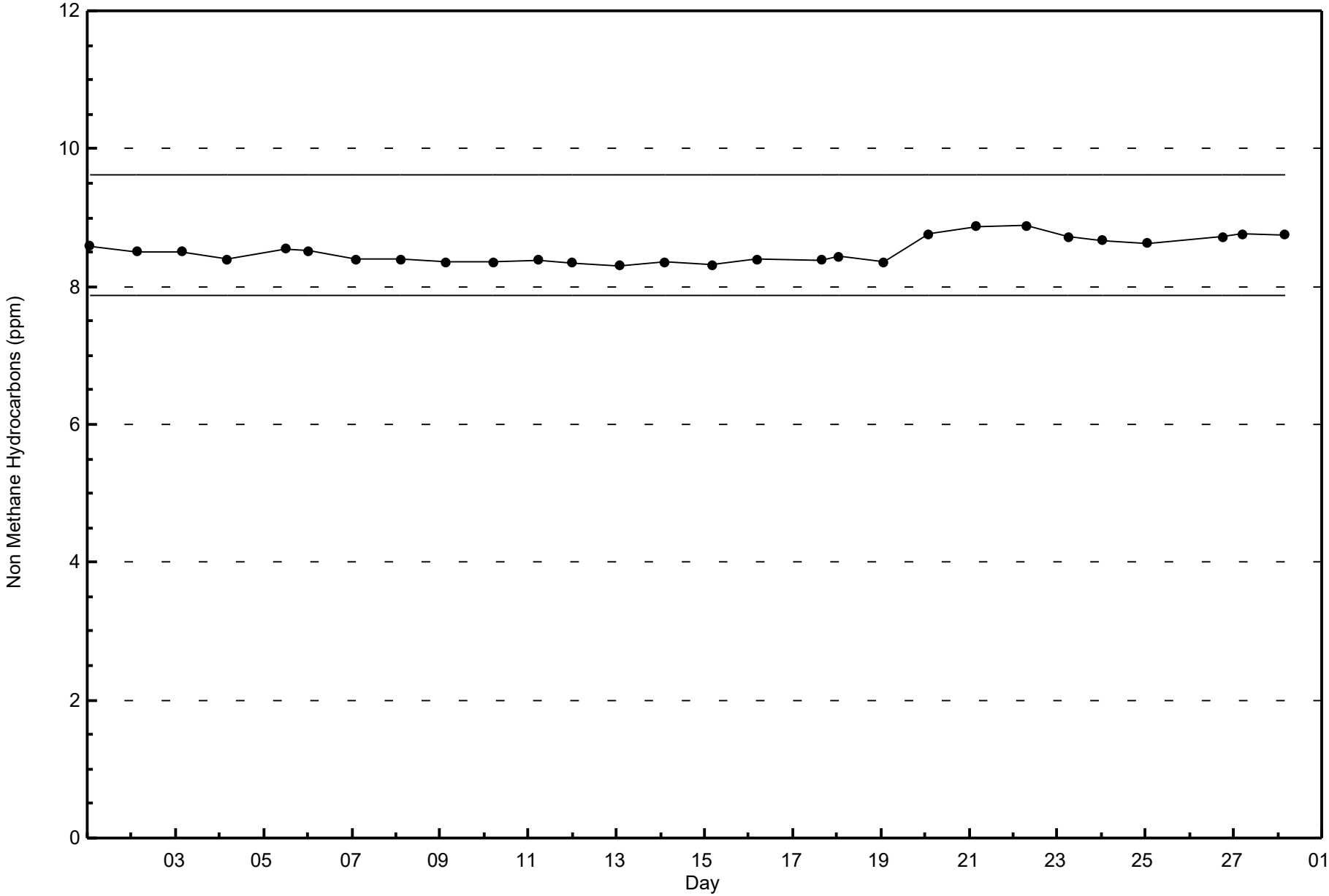


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Mannix - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 4.6 ppm on Feb 25 08:00 Maximum Daily Average: 2.4 ppm on Feb 25

Minimum Value: 1.9 ppm on Feb 12 21:00 Minimum Daily Average: 1.9 ppm on Feb 12
Maximum Diurnal Average: 2.2 ppm at hour 8 Minimum Diurnal Average: 2.1 ppm at hour 1
Monthly Average: 2.10 ppm Percentiles: P_1 = 1.9 P_{10} = 2.0 Q_1 = 2.0 Median = 2.0 Q_3 = 2.1 P_{90} = 2.2 P_{99} = 3.3

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.1	Z	2.0	2.0	2.0	2.0	2.0	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2
2-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.4	2.7	2.2	2.2	2.1	2.1	3.4
3-Feb	2.1	2.1	2.1	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.4	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.4
4-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
5-Feb	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1
6-Feb	Z	2.2	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.0	2.2
7-Feb	2.3	Z	2.5	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.5
8-Feb	2.1	2.1	Z	2.7	2.4	2.3	2.6	2.5	2.9	3.0	2.8	2.9	2.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	3.0
9-Feb	2.1	2.1	2.1	Z	2.5	2.6	2.3	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.6
10-Feb	2.0	2.0	2.2	2.1	Z	2.6	2.7	2.5	2.2	2.4	2.5	2.4	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.7
11-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0
12-Feb	Z	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0
13-Feb	1.9	Z	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.4	2.1	2.0	2.4
14-Feb	2.1	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.5	2.2	2.3	2.3	2.6	3.2	3.6	3.2	3.1	2.5	2.3	3.6
15-Feb	2.1	2.1	2.0	Z	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
16-Feb	2.0	2.1	2.3	2.1	Z	2.0	2.1	2.1	2.2	2.2	2.3	2.1	2.2	2.3	2.3	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3
17-Feb	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	Z	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
18-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.4	2.2	2.1	2.0	2.0	2.4
19-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.1	C	C	C	C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.1
20-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.5	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.5
21-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3
22-Feb	2.0	2.0	2.0	2.0	2.1	2.1	Z	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.5	2.5	2.5	2.2	2.2	2.1	2.1	2.0	2.0	2.2	2.5
23-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.1	2.1	3.0	2.1	3.0
24-Feb	Z	3.9	3.9	3.7	2.5	2.2	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.4	3.9
25-Feb	2.0	Z	2.1	2.1	2.1	2.4	3.9	4.6	3.2	2.3	2.1	2.1	2.0	2.0	2.1	2.1	2.2	2.2	2.8	2.3	2.3	2.2	2.1	2.1	2.4	4.6
26-Feb	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1
27-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.0	2.1	2.1	2.1	2.2	2.1	2.3
28-Feb	2.1	2.1	2.1	2.1	Z	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	Diurnal Average	
	2.3	3.9	3.9	3.7	2.5	2.6	3.9	4.6	3.2	3.0	2.8	2.9	2.5	2.3	2.5	2.5	2.5	2.5	2.8	3.4	3.6	3.2	3.1	3.0	Diurnal Maximum	

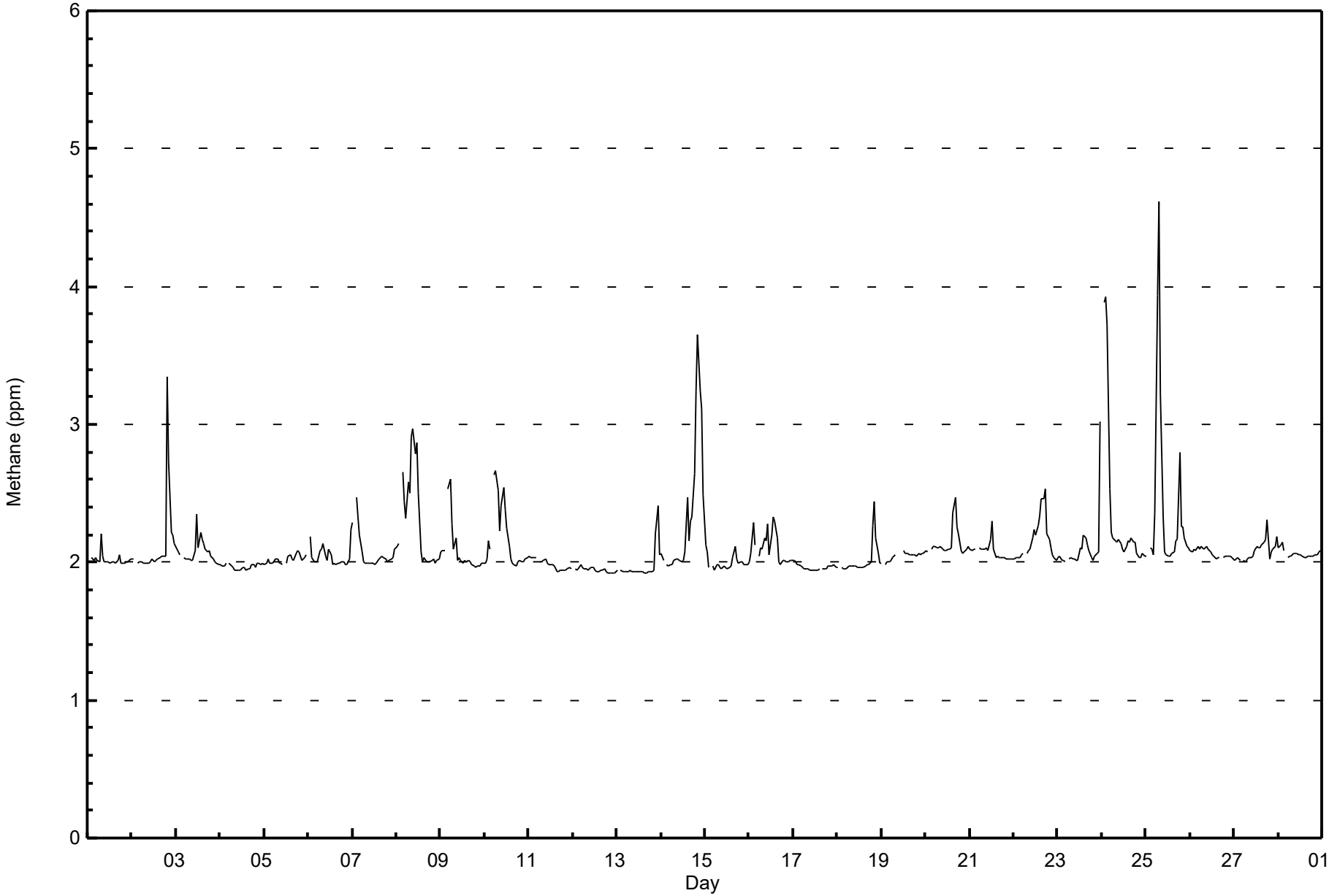
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Mannix - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	386	60.31	60.31
2.1 - 3.0	243	37.97	98.28
3.1 - 10.0	11	1.72	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Mannix - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	44	48	0	1	2	0	40	69	18	7	15	17	4	1	1	10	277
2.1 - 3.0	13	5	1	4	6	5	16	44	3	0	4	1	7	4	25	19	157
3.1 - 10.0	0	0	0	0	0	0	0	3	0	1	1	0	0	4	1	1	11
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	57	53	1	5	8	5	56	116	21	8	20	18	11	9	27	30	445

Total Number of Valid Hours: 445

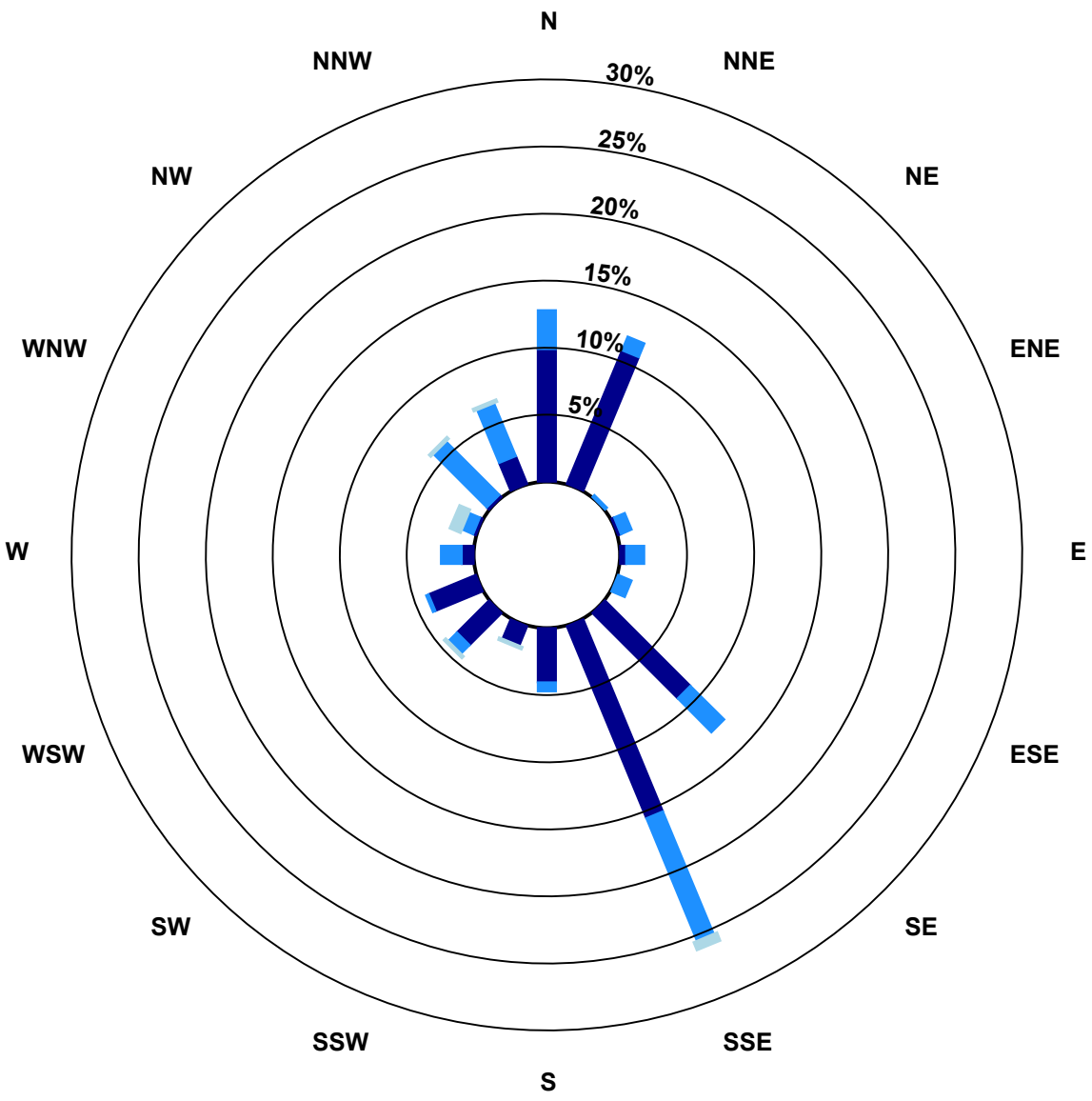
Total Number of Hours: 672

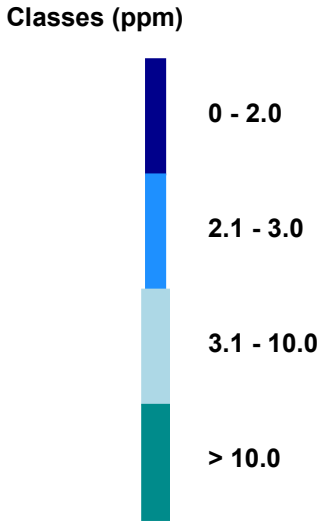
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Mannix





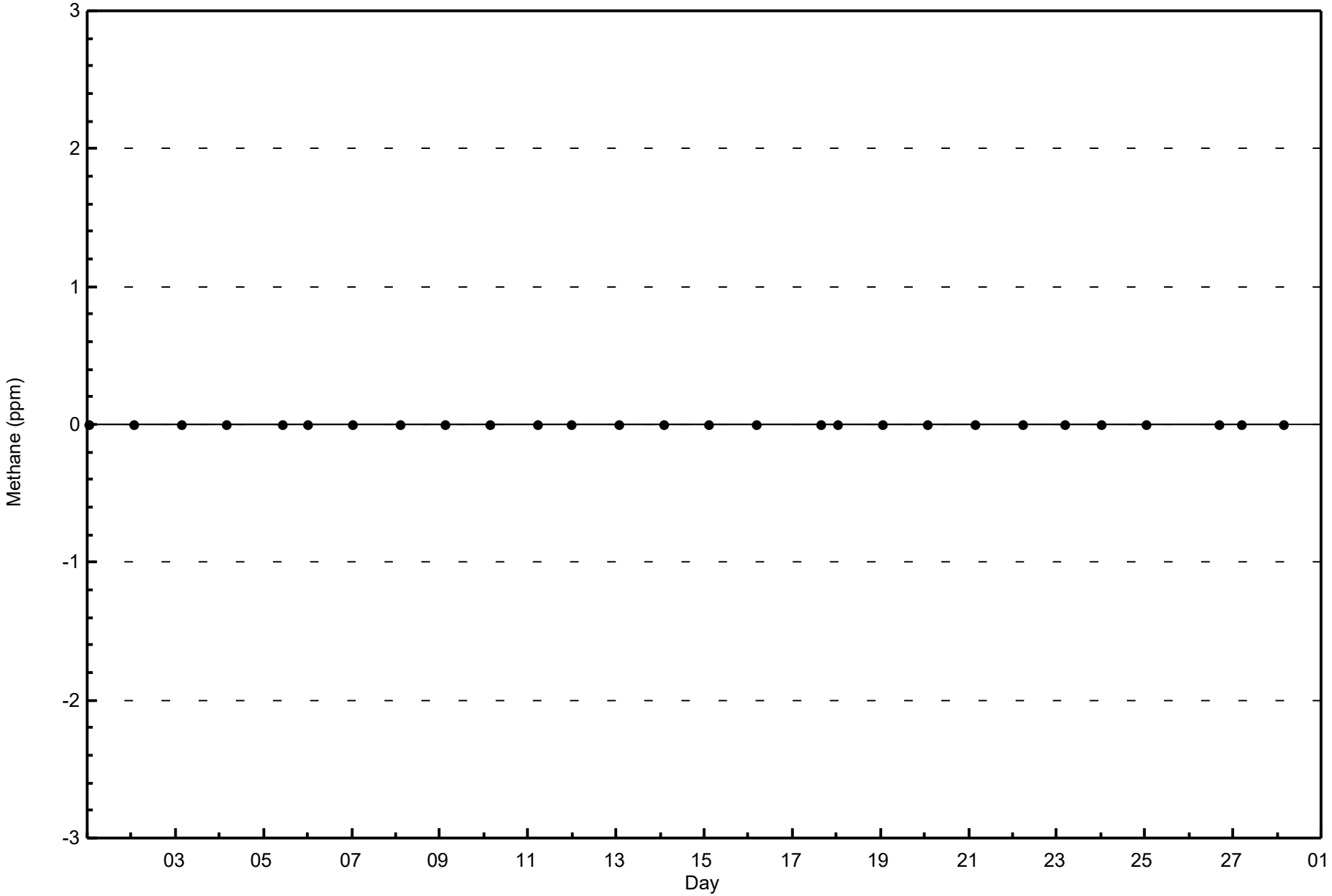
Total Number of Valid Hours: 445

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Mannix - February 2026

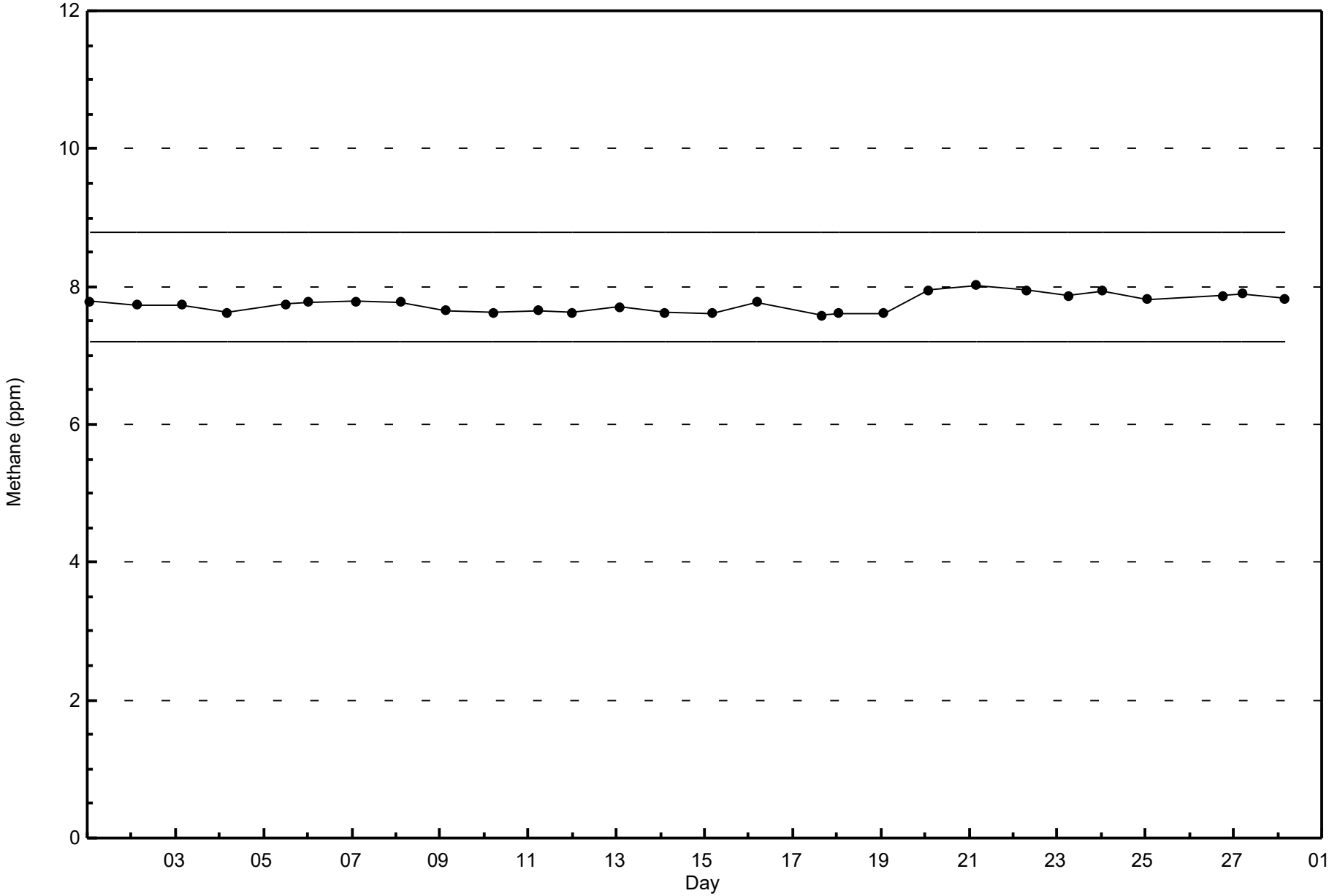


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Mannix - February 2026



Maximum Value: 8.7 C on Feb 4 14:00

Maximum Daily Average: 2.1 C on Feb 4

Minimum Value: -36.1 C on Feb 19 05:00

Minimum Daily Average: -30.3 C on Feb 18

Maximum Diurnal Average: -11.4 C at hour 16

Minimum Diurnal Average: -17.5 C at hour 8

Monthly Average: -14.91 C

Percentiles: P_1 = -35.4 P_{10} = -27.8 Q_1 = -22.5 Median = -14.4 Q_3 = -8.4 P_{90} = -1.8 P_{99} = 5.4

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

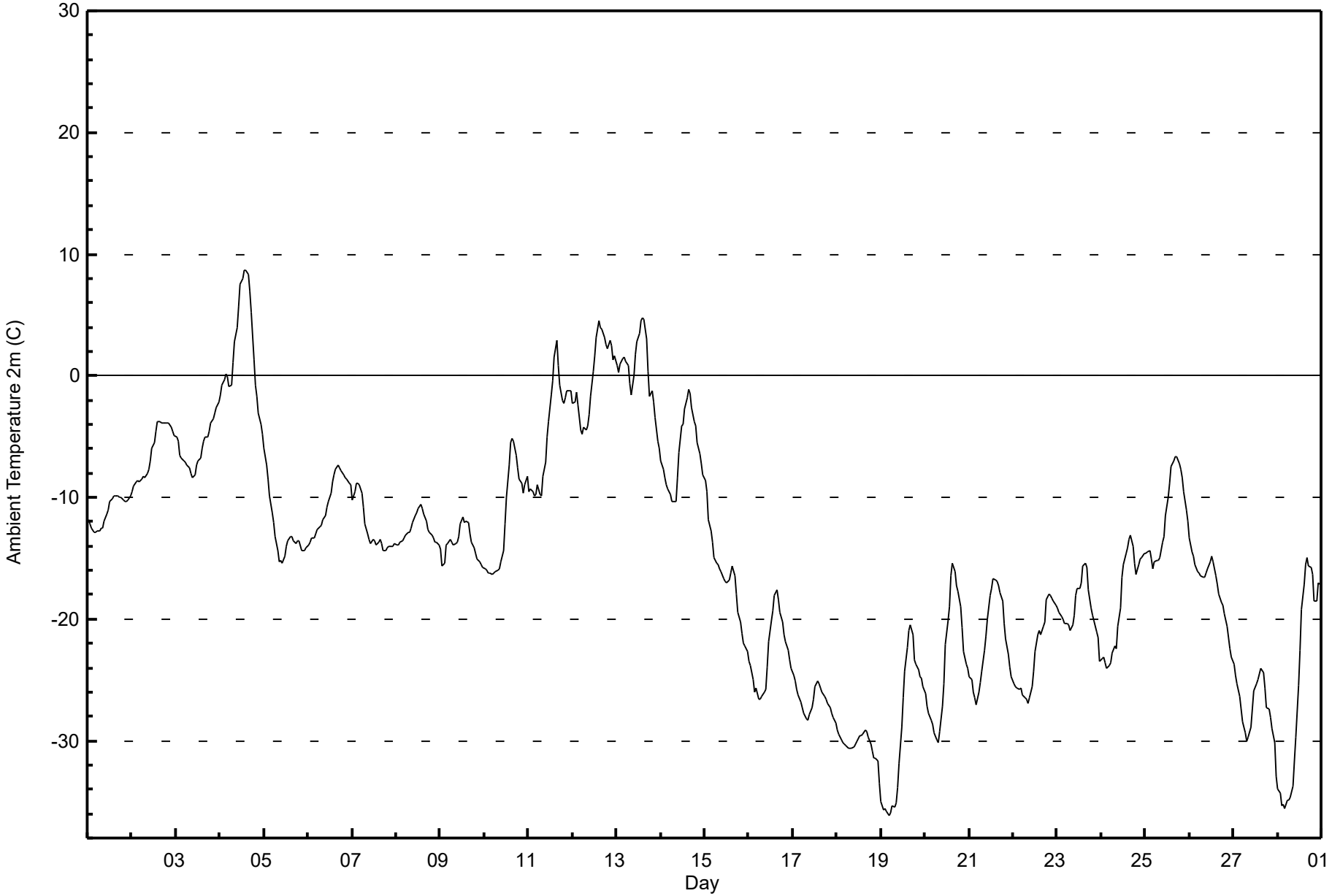
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.8	-12.1	-12.6	-12.8	-12.8	-12.8	-12.7	-12.5	-12.5	-12.0	-11.4	-11.0	-10.3	-10.1	-9.8	-9.9	-9.9	-10.0	-10.0	-10.2	-10.3	-10.3	-10.2	-9.9	-11.2	-9.8
2-Feb	-9.5	-9.1	-8.7	-8.6	-8.7	-8.5	-8.3	-8.3	-8.1	-7.7	-7.0	-5.9	-5.5	-4.6	-3.8	-3.8	-3.9	-3.9	-3.9	-3.9	-3.9	-4.2	-4.6	-4.9	-6.2	-3.8
3-Feb	-5.1	-5.4	-6.6	-6.8	-7.0	-7.1	-7.4	-7.6	-8.1	-8.3	-8.2	-7.4	-7.0	-6.7	-6.0	-5.4	-5.0	-5.0	-4.5	-3.9	-3.5	-3.1	-2.6	-2.1	-5.8	-2.1
4-Feb	-1.5	-0.8	-0.3	0.1	-0.1	-0.9	-0.8	1.1	2.8	3.9	5.7	7.5	8.0	8.7	8.7	8.4	7.0	5.2	1.3	-0.7	-1.7	-3.1	-4.0	-4.8	2.1	8.7
5-Feb	-6.0	-7.3	-8.5	-9.9	-11.3	-12.1	-13.2	-14.4	-15.3	-15.2	-15.5	-14.8	-14.0	-13.6	-13.2	-13.3	-13.6	-13.8	-13.6	-13.6	-14.3	-14.4	-14.4	-14.2	-12.9	-6.0
6-Feb	-13.9	-13.7	-13.3	-13.3	-13.0	-12.7	-12.5	-12.2	-11.9	-11.5	-10.8	-10.3	-9.6	-8.8	-8.2	-7.6	-7.3	-7.6	-7.9	-8.1	-8.4	-8.4	-8.8	-9.0	-10.4	-7.3
7-Feb	-10.3	-9.5	-8.9	-8.9	-8.9	-9.6	-10.8	-12.2	-13.0	-13.4	-13.7	-13.5	-13.6	-13.9	-13.7	-13.5	-13.8	-14.3	-14.3	-14.2	-14.0	-14.0	-14.0	-13.8	-12.5	-8.9
8-Feb	-13.9	-13.9	-13.7	-13.6	-13.4	-13.1	-12.9	-12.8	-12.6	-12.1	-11.5	-11.3	-10.9	-10.6	-11.0	-11.4	-12.0	-12.6	-12.9	-13.1	-13.3	-13.6	-13.6	-14.0	-12.7	-10.6
9-Feb	-14.3	-15.6	-15.4	-13.9	-13.8	-13.4	-13.6	-13.9	-13.8	-13.7	-13.2	-12.2	-11.6	-12.1	-12.0	-12.0	-13.0	-13.7	-14.1	-14.6	-15.0	-15.3	-15.5	-15.7	-13.8	-11.6
10-Feb	-15.8	-16.0	-16.2	-16.2	-16.3	-16.2	-16.1	-15.9	-15.9	-15.3	-14.4	-12.2	-10.0	-7.3	-5.5	-5.1	-5.3	-6.5	-7.5	-8.5	-8.8	-9.7	-8.9	-8.3	-11.6	-5.1
11-Feb	-9.5	-9.3	-9.6	-9.9	-9.8	-8.9	-9.8	-9.9	-8.3	-7.1	-5.0	-3.7	-1.6	-0.5	1.5	2.9	0.8	-0.8	-2.0	-2.2	-1.8	-1.2	-1.2	-1.3	-4.5	2.9
12-Feb	-2.3	-2.1	-1.4	-2.3	-4.5	-4.8	-4.3	-4.4	-4.1	-3.2	-1.7	0.4	1.6	3.1	4.6	3.9	3.9	3.1	2.6	2.2	2.9	2.5	1.3	1.7	-0.1	4.6
13-Feb	0.9	0.3	1.0	1.4	1.6	1.2	0.8	-0.7	-1.6	0.0	1.8	2.8	3.5	4.5	4.8	4.7	3.0	0.4	-1.7	-1.2	-2.2	-3.4	-5.3	-6.0	0.4	4.8
14-Feb	-7.0	-7.6	-8.4	-8.9	-9.3	-9.8	-10.3	-10.4	-10.3	-8.4	-6.3	-4.2	-4.0	-2.7	-1.8	-1.1	-1.5	-2.6	-3.7	-4.1	-5.5	-6.4	-7.3	-8.1	-6.3	-1.1
15-Feb	-8.6	-9.6	-11.8	-12.7	-13.7	-14.9	-15.4	-15.5	-15.9	-16.1	-16.7	-16.9	-17.0	-16.7	-16.2	-15.6	-16.4	-17.9	-19.4	-20.3	-21.2	-22.0	-22.2	-22.7	-16.5	-8.6
16-Feb	-23.4	-23.9	-24.9	-26.0	-25.6	-26.6	-26.6	-26.3	-26.0	-25.8	-23.9	-21.8	-20.2	-19.3	-18.0	-17.6	-18.4	-19.4	-20.2	-21.3	-21.9	-22.5	-23.4	-24.0	-22.8	-17.6
17-Feb	-24.6	-25.1	-25.7	-26.3	-26.8	-27.3	-27.8	-28.2	-28.3	-27.9	-27.3	-26.6	-25.6	-25.1	-25.3	-25.7	-26.0	-26.4	-26.6	-27.0	-27.3	-27.7	-28.0	-28.6	-26.7	-24.6
18-Feb	-29.1	-29.5	-29.9	-30.1	-30.3	-30.4	-30.6	-30.6	-30.6	-30.5	-30.3	-30.0	-29.6	-29.6	-29.5	-29.1	-29.2	-29.7	-30.3	-30.8	-31.4	-31.4	-31.7	-33.5	-30.3	-29.1
19-Feb	-35.0	-35.7	-35.6	-35.8	-36.1	-36.0	-35.3	-35.4	-35.1	-33.9	-31.9	-28.8	-26.5	-24.3	-22.3	-21.0	-20.4	-21.3	-23.3	-23.7	-24.2	-24.8	-24.8	-25.5	-29.0	-20.4
20-Feb	-26.2	-27.1	-27.7	-28.3	-28.7	-29.4	-29.9	-30.2	-29.3	-27.2	-25.3	-22.1	-20.1	-19.0	-16.5	-15.5	-16.1	-17.3	-17.7	-18.9	-20.7	-22.7	-23.7	-24.0	-23.5	-15.5
21-Feb	-24.8	-25.0	-26.0	-26.5	-27.0	-26.1	-25.2	-24.3	-22.5	-21.4	-20.0	-18.1	-17.5	-16.6	-16.8	-16.9	-17.3	-17.8	-18.5	-20.4	-21.6	-22.9	-24.0	-24.7	-21.7	-16.6
22-Feb	-25.4	-25.5	-25.7	-25.7	-25.6	-26.2	-26.5	-26.6	-26.9	-26.5	-25.6	-24.3	-22.7	-21.2	-20.9	-21.2	-20.6	-20.3	-18.4	-17.9	-18.1	-18.3	-18.6	-18.9	-22.8	-17.9
23-Feb	-19.1	-19.5	-19.8	-20.0	-20.4	-20.3	-20.5	-21.0	-20.5	-19.6	-18.1	-17.5	-17.5	-17.1	-15.7	-15.4	-15.8	-17.6	-19.1	-19.6	-20.2	-21.1	-21.5	-23.5	-19.2	-15.4
24-Feb	-23.2	-23.1	-23.6	-24.1	-23.8	-23.6	-22.8	-22.2	-22.4	-20.6	-19.1	-16.5	-15.5	-14.6	-14.1	-13.5	-13.1	-14.0	-15.4	-16.4	-15.5	-15.1	-15.0	-14.6	-18.4	-13.1
25-Feb	-14.6	-14.4	-14.4	-15.1	-15.9	-15.4	-15.1	-15.2	-15.0	-13.7	-13.2	-11.4	-10.0	-8.8	-7.5	-7.0	-6.7	-6.6	-7.2	-7.6	-8.4	-9.6	-11.0	-12.0	-11.5	-6.6
26-Feb	-13.3	-14.5	-14.8	-15.5	-16.1	-16.2	-16.4	-16.6	-16.5	-16.2	-15.8	-15.3	-14.8	-15.2	-16.5	-17.2	-17.9	-18.7	-18.9	-19.6	-20.6	-21.5	-22.5	-23.1	-17.2	-13.3
27-Feb	-23.7	-24.6	-25.3	-26.4	-27.4	-28.5	-29.4	-30.1	-29.8	-28.9	-27.4	-25.9	-25.3	-24.9	-24.5	-24.1	-24.4	-25.6	-27.3	-27.4	-28.0	-29.0	-30.1	-32.9	-27.1	-23.7
28-Feb	-34.0	-34.4	-35.4	-35.3	-35.6	-34.9	-34.9	-34.6	-33.7	-31.7	-29.7	-25.4	-22.5	-19.3	-17.1	-15.5	-14.9	-15.6	-15.7	-16.3	-18.5	-18.5	-17.0	-17.2	-25.3	-14.9
	-15.9	-16.2	-16.5	-16.8	-17.2	-17.3	-17.4	-17.5	-17.3	-16.6	-15.6	-14.2	-13.2	-12.4	-11.6	-11.4	-11.7	-12.5	-13.2	-13.7	-14.2	-14.7	-15.1	-15.6	Diurnal Average	
	0.9	0.3	1.0	1.4	1.6	1.2	0.8	1.1	2.8	3.9	5.7	7.5	8.0	8.7	8.7	8.4	7.0	5.2	2.6	2.2	2.9	2.5	1.3	1.7	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Mannix - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	208	30.95	30.95
-20 - 0	419	62.35	93.30
0 - 10	45	6.70	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 9.8 C on Feb 4 16:00

Maximum Daily Average: 2.7 C on Feb 4

Minimum Value: -35.8 C on Feb 19 06:00

Minimum Daily Average: -30.8 C on Feb 18

Maximum Diurnal Average: -11.7 C at hour 17

Minimum Diurnal Average: -17.3 C at hour 8

Monthly Average: -14.79 C

Percentiles: P_1 = -34.6 P_{10} = -27.9 Q_1 = -21.9 Median = -14.7 Q_3 = -7.9 P_{90} = -0.4 P_{99} = 6.6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

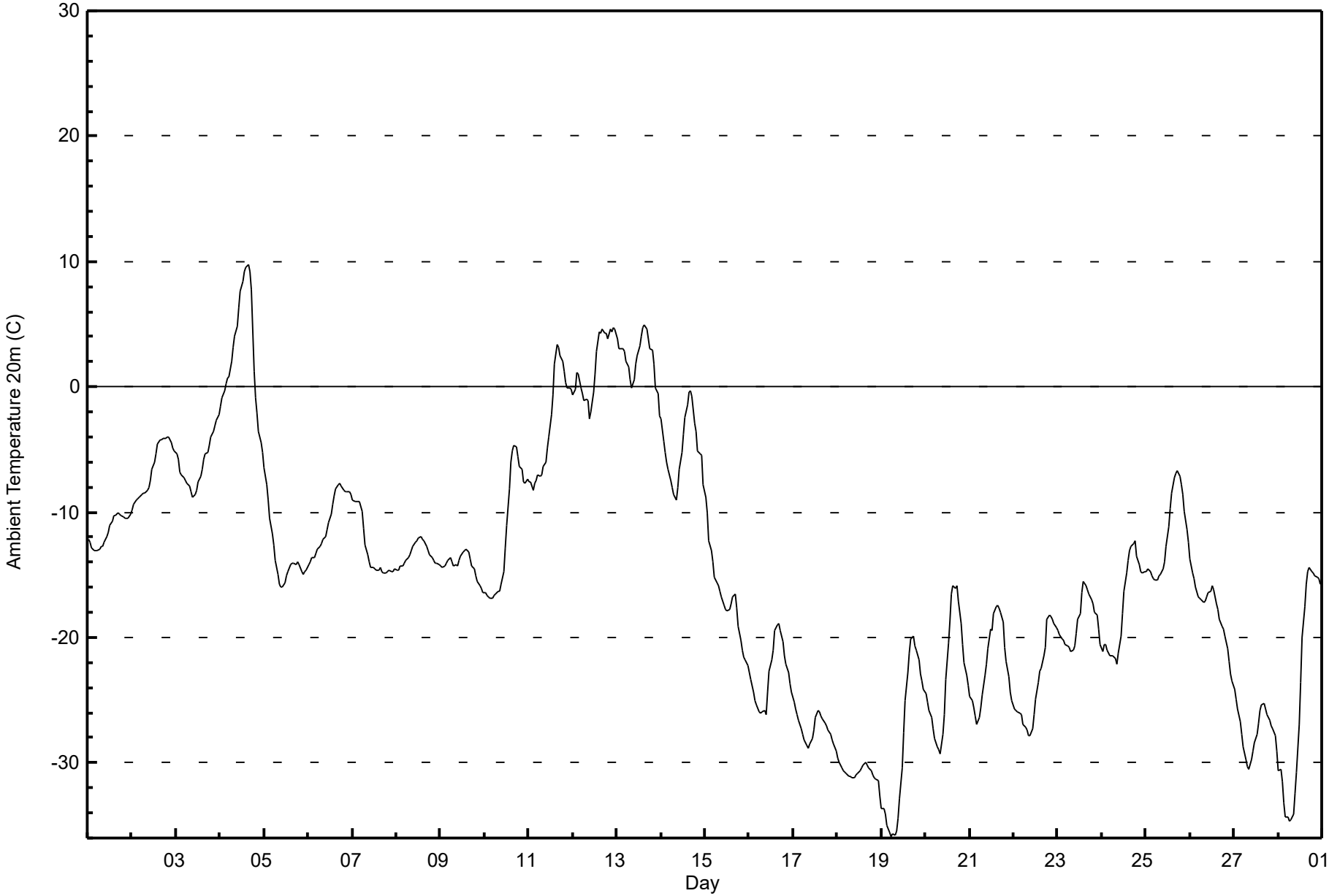
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.2	-12.4	-12.9	-13.1	-13.0	-13.0	-12.9	-12.8	-12.8	-12.4	-11.9	-11.6	-11.1	-10.7	-10.3	-10.3	-10.1	-10.2	-10.2	-10.4	-10.5	-10.5	-10.5	-10.2	-11.5	-10.1
2-Feb	-9.8	-9.4	-9.0	-8.9	-8.8	-8.6	-8.5	-8.5	-8.3	-8.0	-7.5	-6.6	-6.1	-5.4	-4.6	-4.3	-4.2	-4.1	-4.1	-4.0	-4.0	-4.5	-4.9	-5.1	-6.5	-4.0
3-Feb	-5.3	-5.7	-6.8	-7.0	-7.2	-7.4	-7.6	-7.9	-8.4	-8.8	-8.6	-8.3	-7.6	-7.1	-6.6	-5.8	-5.3	-5.2	-4.7	-4.0	-3.6	-3.1	-2.7	-2.2	-6.1	-2.2
4-Feb	-1.6	-0.9	-0.3	0.3	0.6	0.9	2.1	3.1	4.0	4.9	6.3	7.6	8.4	9.1	9.5	9.8	9.2	7.8	1.2	-0.9	-2.1	-3.5	-4.4	-5.3	2.7	9.8
5-Feb	-6.5	-7.8	-9.0	-10.4	-11.8	-12.7	-13.9	-14.9	-15.7	-15.9	-16.0	-15.6	-15.1	-14.7	-14.2	-14.1	-14.0	-14.2	-14.0	-14.2	-14.8	-14.9	-14.8	-14.6	-13.5	-6.5
6-Feb	-14.2	-14.0	-13.6	-13.7	-13.3	-13.0	-12.7	-12.5	-12.2	-11.9	-11.4	-10.9	-10.2	-9.4	-8.7	-8.1	-7.8	-7.7	-7.9	-8.2	-8.4	-8.4	-8.4	-8.6	-10.6	-7.7
7-Feb	-9.1	-9.1	-9.1	-9.2	-9.2	-10.0	-11.3	-12.6	-13.4	-14.0	-14.4	-14.4	-14.5	-14.6	-14.6	-14.4	-14.7	-14.9	-14.9	-14.7	-14.6	-14.8	-14.8	-14.6	-13.0	-9.1
8-Feb	-14.7	-14.6	-14.3	-14.3	-14.1	-13.8	-13.6	-13.4	-13.1	-12.7	-12.4	-12.3	-12.1	-11.9	-12.2	-12.3	-12.8	-13.1	-13.4	-13.6	-13.8	-14.1	-14.1	-14.2	-13.4	-11.9
9-Feb	-14.2	-14.4	-14.3	-14.0	-13.9	-13.6	-14.0	-14.3	-14.2	-14.3	-13.9	-13.6	-13.2	-13.1	-13.0	-13.2	-13.7	-14.3	-14.6	-15.0	-15.5	-15.8	-16.1	-16.4	-14.3	-13.0
10-Feb	-16.4	-16.6	-16.8	-16.8	-16.8	-16.7	-16.5	-16.3	-16.3	-15.8	-14.8	-12.9	-11.1	-8.2	-6.0	-5.1	-4.6	-4.8	-5.6	-6.4	-6.5	-7.6	-7.7	-7.3	-11.4	-4.6
11-Feb	-7.6	-7.6	-8.3	-7.7	-7.4	-7.0	-7.1	-7.1	-6.4	-6.0	-4.9	-4.1	-2.2	-0.7	1.8	3.4	3.2	2.5	2.0	1.3	0.3	-0.1	-0.1	-0.3	-2.9	3.4
12-Feb	-0.6	-0.2	1.1	1.0	-0.1	-0.5	-1.1	-1.0	-1.1	-2.6	-2.0	-0.4	1.1	2.8	4.3	4.3	4.6	4.3	4.3	3.8	4.6	4.4	4.7	4.6	1.7	4.7
13-Feb	3.8	3.1	3.0	3.1	2.8	2.0	1.6	0.6	-0.1	0.5	1.8	2.4	3.2	4.0	4.7	4.9	4.7	3.8	3.0	2.9	1.9	0.0	-0.6	-2.3	2.3	4.9
14-Feb	-2.6	-4.3	-5.2	-6.0	-6.6	-7.5	-8.1	-8.6	-9.0	-8.0	-6.5	-5.2	-3.8	-2.4	-1.4	-0.4	-0.3	-0.7	-2.9	-3.6	-5.1	-5.3	-5.5	-7.9	-4.9	-0.3
15-Feb	-8.8	-10.1	-12.2	-13.1	-14.0	-15.2	-15.7	-15.9	-16.4	-16.8	-17.4	-17.7	-17.9	-17.7	-17.3	-16.8	-16.5	-17.6	-19.1	-20.2	-21.0	-21.6	-21.8	-22.3	-16.8	-8.8
16-Feb	-22.8	-23.4	-24.4	-25.0	-25.4	-25.9	-26.0	-25.9	-25.8	-26.1	-24.4	-22.7	-21.8	-21.0	-19.5	-19.0	-18.8	-19.5	-20.3	-21.4	-22.1	-22.8	-23.7	-24.4	-23.0	-18.8
17-Feb	-25.1	-25.7	-26.2	-26.6	-27.2	-27.7	-28.2	-28.6	-28.8	-28.5	-28.1	-27.4	-26.4	-25.8	-26.0	-26.2	-26.5	-26.9	-27.0	-27.4	-27.7	-28.1	-28.5	-29.0	-27.2	-25.1
18-Feb	-29.6	-30.0	-30.4	-30.6	-30.8	-30.9	-31.1	-31.1	-31.2	-31.2	-31.0	-30.9	-30.6	-30.4	-30.2	-30.0	-30.2	-30.5	-30.7	-31.0	-31.2	-31.3	-31.4	-32.6	-30.8	-29.6
19-Feb	-33.6	-33.6	-34.1	-35.0	-35.6	-35.8	-35.7	-35.8	-35.5	-34.5	-32.8	-30.4	-27.6	-25.0	-22.9	-21.3	-20.1	-19.9	-20.6	-21.0	-21.8	-22.9	-23.5	-24.1	-28.5	-19.9
20-Feb	-24.5	-25.1	-25.8	-26.4	-27.2	-28.1	-28.8	-29.0	-29.3	-27.8	-26.1	-23.4	-20.4	-18.7	-16.5	-15.9	-16.1	-15.9	-17.1	-18.9	-20.6	-22.1	-23.0	-23.8	-22.9	-15.9
21-Feb	-24.7	-25.1	-25.6	-26.2	-27.0	-26.3	-25.6	-24.6	-23.0	-22.2	-20.9	-19.4	-19.4	-18.1	-17.6	-17.4	-17.6	-18.0	-18.8	-20.7	-21.9	-23.1	-24.4	-25.1	-22.2	-17.4
22-Feb	-25.7	-25.8	-25.9	-26.0	-26.2	-26.9	-27.2	-27.4	-27.8	-27.8	-27.2	-26.2	-24.9	-23.5	-22.7	-22.5	-21.5	-20.7	-18.6	-18.2	-18.3	-18.6	-18.9	-19.2	-23.7	-18.2
23-Feb	-19.5	-19.8	-20.1	-20.3	-20.5	-20.6	-20.8	-21.1	-21.0	-20.6	-19.7	-18.5	-18.1	-16.4	-15.5	-15.9	-16.2	-16.5	-17.0	-17.4	-18.0	-18.2	-19.4	-20.6	-18.8	-15.5
24-Feb	-21.1	-20.5	-20.5	-21.0	-21.5	-21.5	-21.4	-21.7	-22.2	-21.2	-19.9	-18.1	-16.3	-14.8	-13.8	-13.1	-12.7	-12.5	-12.3	-13.5	-14.2	-14.8	-14.9	-14.7	-17.4	-12.3
25-Feb	-14.8	-14.5	-14.7	-15.1	-15.3	-15.4	-15.4	-15.1	-15.0	-14.5	-14.0	-12.7	-11.2	-9.7	-8.5	-7.3	-6.9	-6.7	-7.1	-7.8	-8.6	-9.9	-11.4	-12.4	-11.8	-6.7
26-Feb	-13.7	-14.9	-15.3	-16.0	-16.8	-16.9	-17.0	-17.2	-17.1	-16.7	-16.4	-16.3	-15.8	-16.2	-17.3	-17.8	-18.6	-19.1	-19.3	-19.9	-20.9	-21.9	-22.9	-23.5	-17.8	-13.7
27-Feb	-24.2	-25.0	-25.7	-26.8	-27.7	-28.7	-29.7	-30.3	-30.5	-29.8	-29.0	-28.4	-27.7	-26.8	-25.8	-25.3	-25.3	-25.7	-26.2	-26.6	-27.1	-27.3	-27.9	-29.1	-27.3	-24.2
28-Feb	-30.7	-30.5	-31.5	-33.2	-34.3	-34.4	-34.6	-34.6	-34.2	-32.4	-30.8	-26.9	-23.6	-20.0	-17.6	-15.7	-14.7	-14.5	-14.7	-14.9	-15.1	-15.2	-15.4	-15.7	-24.4	-14.5
	-15.3	-15.6	-16.0	-16.4	-16.7	-17.0	-17.2	-17.3	-17.3	-17.0	-16.2	-15.2	-14.1	-13.1	-12.2	-11.8	-11.7	-12.0	-12.5	-13.1	-13.6	-14.1	-14.5	-15.0	Diurnal Average	
	3.8	3.1	3.0	3.1	2.8	2.0	2.1	3.1	4.0	4.9	6.3	7.6	8.4	9.1	9.5	9.8	9.2	7.8	4.3	3.8	4.6	4.4	4.7	4.6	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 20m (AT20) - C

Mannix - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	207	30.80	30.80
-20 - 0	408	60.71	91.52
0 - 10	57	8.48	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 9.7 C on Feb 4 16:00
Maximum Daily Average: 2.6 C on Feb 4

Minimum Value: -36.6 C on Feb 19 08:00
Minimum Daily Average: -31.5 C on Feb 18
Maximum Diurnal Average: -12.2 C at hour 17
Minimum Diurnal Average: -17.5 C at hour 8
Monthly Average: -15.09 C
Percentiles: P_1 = -34.3 P_{10} = -28.5 Q_1 = -22.5 Median = -15.2 Q_3 = -8.2 P_{90} = -0.4 P_{99} = 6.5

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

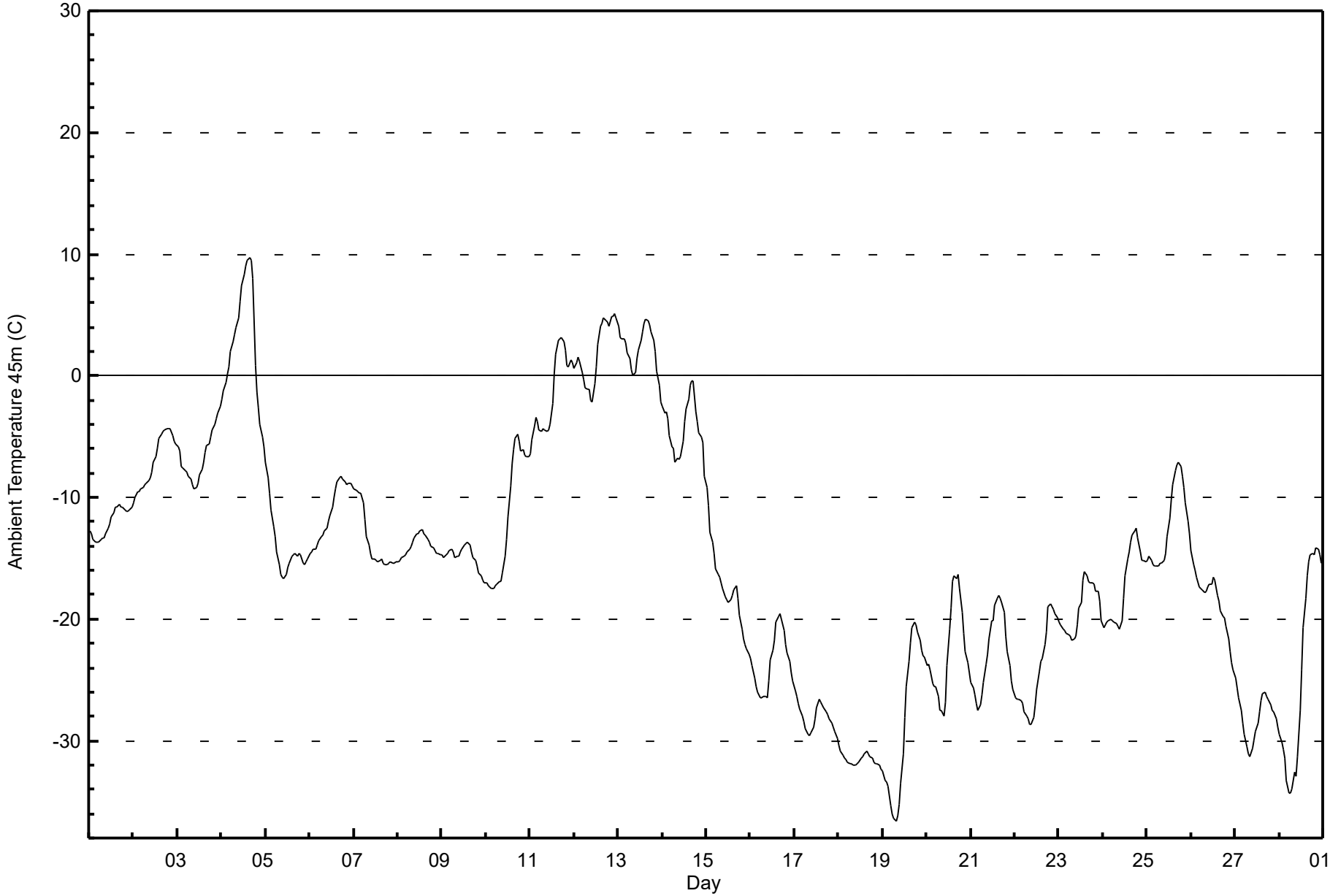
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.8	-13.0	-13.5	-13.7	-13.6	-13.6	-13.4	-13.3	-13.4	-13.0	-12.5	-12.2	-11.6	-11.2	-10.8	-10.8	-10.6	-10.8	-10.8	-11.0	-11.1	-11.1	-11.1	-10.8	-12.1	-10.6
2-Feb	-10.4	-10.0	-9.6	-9.5	-9.3	-9.1	-9.0	-8.9	-8.7	-8.4	-8.0	-7.1	-6.6	-5.9	-5.1	-4.8	-4.6	-4.5	-4.4	-4.3	-4.4	-4.9	-5.4	-5.6	-7.0	-4.3
3-Feb	-5.8	-6.2	-7.4	-7.6	-7.8	-8.0	-8.2	-8.4	-8.9	-9.4	-9.2	-8.9	-8.1	-7.7	-7.1	-6.3	-5.8	-5.6	-5.1	-4.5	-4.0	-3.5	-3.0	-2.5	-6.6	-2.5
4-Feb	-2.0	-1.2	-0.6	0.1	0.8	2.0	2.8	3.3	4.0	4.8	6.1	7.4	8.3	9.0	9.5	9.7	9.5	7.9	0.9	-1.4	-2.6	-4.0	-5.0	-5.8	2.6	9.7
5-Feb	-7.1	-8.4	-9.6	-11.0	-12.4	-13.3	-14.5	-15.6	-16.3	-16.6	-16.7	-16.3	-15.8	-15.4	-14.9	-14.7	-14.7	-14.8	-14.6	-14.8	-15.4	-15.5	-15.3	-15.1	-14.1	-7.1
6-Feb	-14.6	-14.5	-14.3	-14.2	-13.9	-13.6	-13.3	-13.1	-12.8	-12.5	-11.9	-11.4	-10.7	-9.9	-9.3	-8.7	-8.3	-8.3	-8.5	-8.8	-9.0	-8.9	-8.8	-9.0	-11.2	-8.3
7-Feb	-9.3	-9.4	-9.5	-9.6	-9.6	-10.5	-11.8	-13.2	-13.9	-14.6	-15.1	-15.1	-15.1	-15.3	-15.2	-15.0	-15.4	-15.6	-15.5	-15.4	-15.3	-15.4	-15.4	-15.2	-13.6	-9.3
8-Feb	-15.3	-15.2	-14.9	-14.9	-14.7	-14.5	-14.2	-14.1	-13.7	-13.3	-13.0	-13.0	-12.8	-12.7	-13.0	-13.1	-13.4	-13.7	-14.0	-14.2	-14.4	-14.7	-14.6	-14.7	-14.0	-12.7
9-Feb	-14.7	-14.9	-14.8	-14.6	-14.4	-14.3	-14.5	-14.9	-14.9	-14.9	-14.5	-14.3	-13.9	-13.7	-13.7	-13.9	-14.4	-15.0	-15.2	-15.6	-16.2	-16.5	-16.8	-17.0	-14.9	-13.7
10-Feb	-17.1	-17.2	-17.4	-17.5	-17.4	-17.3	-17.1	-16.9	-16.9	-16.2	-14.8	-13.5	-11.6	-9.1	-7.2	-6.0	-5.1	-4.9	-5.4	-6.2	-6.1	-6.5	-6.7	-6.7	-11.7	-4.9
11-Feb	-6.4	-5.2	-4.1	-3.5	-3.7	-4.4	-4.5	-4.3	-4.5	-4.5	-4.4	-4.0	-2.3	0.1	1.7	3.0	3.0	3.1	2.8	2.2	0.8	0.8	1.4	1.1	-1.5	3.1
12-Feb	0.6	1.1	1.5	1.2	0.3	-0.3	-1.0	-1.1	-1.2	-2.0	-2.2	-0.7	0.7	2.5	4.0	4.3	4.7	4.5	4.5	4.1	4.8	4.9	5.1	4.8	1.9	5.1
13-Feb	4.0	3.2	3.0	3.0	2.7	1.9	1.4	0.5	0.0	0.2	1.4	2.1	2.9	3.6	4.3	4.7	4.5	4.2	3.6	3.0	2.0	0.4	-0.8	-2.2	2.2	4.7
14-Feb	-2.5	-3.1	-2.9	-3.5	-4.9	-5.8	-6.0	-7.1	-6.8	-6.8	-6.6	-5.4	-3.8	-2.8	-1.9	-0.7	-0.4	-0.4	-2.9	-3.8	-4.7	-5.0	-5.5	-8.2	-4.2	-0.4
15-Feb	-9.2	-10.7	-12.9	-13.7	-14.6	-15.8	-16.3	-16.5	-17.0	-17.5	-18.1	-18.5	-18.7	-18.5	-18.0	-17.5	-17.3	-18.3	-19.7	-20.8	-21.6	-22.1	-22.4	-22.9	-17.4	-9.2
16-Feb	-23.2	-23.9	-24.9	-25.6	-26.0	-26.4	-26.4	-26.4	-26.4	-26.5	-25.1	-23.4	-22.5	-21.7	-20.2	-19.7	-19.5	-20.1	-20.9	-22.1	-22.8	-23.5	-24.4	-25.1	-23.6	-19.5
17-Feb	-25.9	-26.4	-26.9	-27.4	-28.0	-28.4	-29.0	-29.4	-29.6	-29.3	-28.9	-28.3	-27.2	-26.6	-26.8	-27.0	-27.3	-27.6	-27.8	-28.2	-28.5	-28.9	-29.3	-29.8	-28.0	-25.9
18-Feb	-30.4	-30.8	-31.2	-31.4	-31.6	-31.7	-31.9	-31.9	-32.0	-32.0	-31.9	-31.8	-31.5	-31.3	-31.1	-30.8	-31.1	-31.3	-31.5	-31.8	-31.9	-31.9	-32.0	-32.3	-31.5	-30.4
19-Feb	-32.5	-33.3	-33.3	-33.8	-35.4	-36.0	-36.4	-36.6	-36.1	-35.2	-33.5	-31.1	-28.1	-25.5	-23.4	-21.9	-20.7	-20.3	-20.5	-21.1	-21.7	-22.5	-23.0	-23.2	-28.5	-20.3
20-Feb	-23.8	-23.7	-24.1	-25.3	-25.5	-25.5	-26.4	-27.6	-27.6	-28.0	-26.8	-23.9	-20.8	-19.1	-16.9	-16.5	-16.6	-16.4	-17.5	-19.4	-21.1	-22.6	-23.6	-24.4	-22.6	-16.4
21-Feb	-25.2	-25.7	-26.3	-26.9	-27.6	-27.0	-26.3	-25.2	-23.7	-22.9	-21.6	-20.1	-20.2	-18.9	-18.3	-18.1	-18.3	-18.6	-19.4	-21.4	-22.7	-23.8	-25.1	-25.8	-22.9	-18.1
22-Feb	-26.4	-26.6	-26.6	-26.7	-26.9	-27.7	-28.0	-28.1	-28.6	-28.6	-28.0	-27.0	-25.7	-24.3	-23.5	-23.2	-22.1	-21.0	-19.0	-18.8	-19.0	-19.2	-19.6	-19.9	-24.4	-18.8
23-Feb	-20.2	-20.5	-20.9	-21.0	-21.2	-21.3	-21.4	-21.7	-21.7	-21.4	-20.4	-19.1	-18.6	-16.7	-16.1	-16.5	-16.9	-17.0	-17.0	-17.2	-17.7	-17.7	-18.6	-20.2	-19.2	-16.1
24-Feb	-20.7	-20.5	-20.3	-20.1	-20.1	-20.2	-20.3	-20.3	-20.6	-20.8	-20.1	-18.3	-16.4	-15.0	-14.5	-13.7	-13.1	-12.8	-12.5	-13.4	-14.4	-15.1	-15.2	-15.2	-17.2	-12.5
25-Feb	-15.2	-14.8	-15.2	-15.6	-15.6	-15.6	-15.6	-15.4	-15.4	-15.2	-14.6	-13.3	-11.7	-10.2	-9.0	-7.9	-7.4	-7.1	-7.4	-8.3	-9.2	-10.4	-11.9	-12.9	-12.3	-7.1
26-Feb	-14.4	-15.5	-15.9	-16.6	-17.3	-17.4	-17.6	-17.8	-17.7	-17.4	-17.1	-17.1	-16.6	-16.9	-18.0	-18.5	-19.3	-19.8	-20.0	-20.6	-21.6	-22.6	-23.6	-24.2	-18.5	-14.4
27-Feb	-24.9	-25.7	-26.4	-27.5	-28.5	-29.5	-30.5	-31.1	-31.3	-30.7	-29.9	-29.2	-28.5	-27.7	-26.7	-26.2	-26.0	-26.4	-26.6	-27.1	-27.5	-27.6	-28.2	-28.9	-28.0	-24.9
28-Feb	-29.4	-30.2	-30.7	-31.5	-33.2	-34.3	-34.4	-34.0	-32.6	-33.0	-31.4	-27.5	-24.2	-20.7	-18.3	-16.4	-15.3	-14.8	-14.6	-14.8	-14.2	-14.2	-14.8	-15.4	-24.2	-14.2
	-15.5	-15.8	-16.1	-16.4	-16.8	-17.1	-17.3	-17.5	-17.4	-17.4	-16.8	-15.8	-14.7	-13.6	-12.8	-12.4	-12.2	-12.3	-12.8	-13.4	-13.9	-14.4	-14.8	-15.3	Diurnal Average	
	4.0	3.2	3.0	3.0	2.7	2.0	2.8	3.3	4.0	4.8	6.1	7.4	8.3	9.0	9.5	9.7	9.5	7.9	4.5	4.1	4.8	4.9	5.1	4.8	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 45m (AT45) - C

Mannix - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	218	32.44	32.44
-20 - 0	388	57.74	90.18
0 - 10	66	9.82	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 9.7 C on Feb 4 16:00
Maximum Daily Average: 2.9 C on Feb 4

Minimum Value: -34.7 C on Feb 19 08:00
Minimum Daily Average: -30.9 C on Feb 18
Maximum Diurnal Average: -11.8 C at hour 17
Minimum Diurnal Average: -16.7 C at hour 9
Monthly Average: -14.46 C
Percentiles: P_1 = -31.7 P_{10} = -27.8 Q_1 = -21.4 Median = -14.7 Q_3 = -8.0 P_{90} = 0.2 P_{99} = 6.5

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

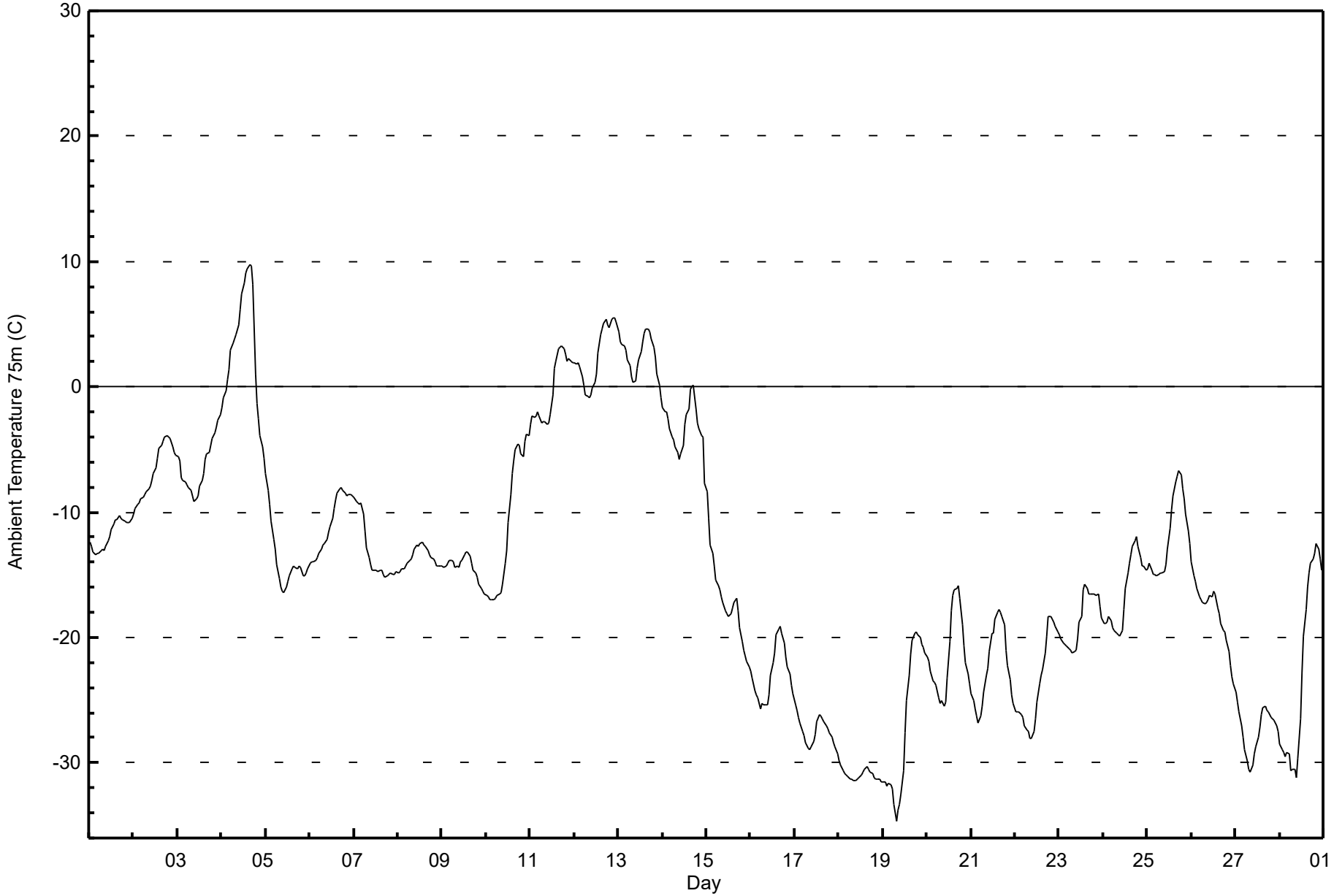
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.4	-12.7	-13.2	-13.4	-13.3	-13.3	-13.0	-12.9	-13.0	-12.8	-12.3	-12.0	-11.3	-11.0	-10.6	-10.6	-10.3	-10.5	-10.6	-10.8	-10.8	-10.9	-10.8	-10.5	-11.8	-10.3
2-Feb	-10.2	-9.8	-9.4	-9.2	-9.0	-8.8	-8.6	-8.4	-8.1	-8.0	-7.5	-6.9	-6.4	-5.7	-4.9	-4.6	-4.3	-4.0	-3.9	-4.0	-4.2	-4.7	-5.2	-5.5	-6.7	-3.9
3-Feb	-5.6	-6.0	-7.3	-7.4	-7.6	-7.8	-8.0	-8.3	-8.7	-9.2	-9.0	-8.7	-7.9	-7.4	-6.9	-5.8	-5.4	-5.2	-4.7	-4.2	-3.7	-3.2	-2.7	-2.2	-6.4	-2.2
4-Feb	-1.7	-0.9	-0.3	0.6	1.3	2.9	3.5	3.8	4.2	4.9	6.2	7.4	8.3	9.0	9.4	9.7	9.7	8.2	1.0	-1.3	-2.5	-3.9	-4.8	-5.7	2.9	9.7
5-Feb	-6.9	-8.3	-9.4	-10.7	-12.1	-13.0	-14.2	-15.3	-16.0	-16.3	-16.4	-16.0	-15.5	-15.1	-14.6	-14.3	-14.4	-14.5	-14.3	-14.4	-15.1	-15.1	-14.9	-14.5	-13.8	-6.9
6-Feb	-14.0	-13.9	-14.0	-13.9	-13.6	-13.2	-12.9	-12.7	-12.5	-12.2	-11.6	-11.2	-10.5	-9.7	-9.1	-8.5	-8.1	-8.0	-8.2	-8.5	-8.7	-8.6	-8.6	-8.7	-10.9	-8.0
7-Feb	-8.9	-9.1	-9.2	-9.3	-9.3	-10.1	-11.5	-12.8	-13.6	-14.2	-14.7	-14.6	-14.6	-14.7	-14.7	-14.6	-15.0	-15.2	-15.1	-14.9	-14.8	-14.9	-14.9	-14.8	-13.1	-8.9
8-Feb	-14.9	-14.8	-14.5	-14.5	-14.3	-14.1	-13.8	-13.7	-13.4	-13.0	-12.6	-12.7	-12.5	-12.4	-12.7	-12.7	-13.1	-13.3	-13.6	-13.8	-14.0	-14.3	-14.3	-14.3	-13.6	-12.4
9-Feb	-14.3	-14.4	-14.3	-14.1	-13.9	-13.9	-14.0	-14.4	-14.3	-14.4	-14.0	-13.8	-13.4	-13.1	-13.2	-13.6	-14.1	-14.7	-14.9	-15.2	-15.7	-16.1	-16.4	-16.6	-14.4	-13.1
10-Feb	-16.6	-16.8	-17.0	-17.0	-17.0	-16.9	-16.7	-16.5	-16.4	-15.7	-14.1	-13.1	-10.9	-8.6	-6.9	-5.9	-5.1	-4.6	-4.6	-5.4	-5.6	-4.3	-3.8	-3.9	-11.0	-3.8
11-Feb	-3.0	-2.4	-2.5	-2.3	-2.0	-2.3	-2.9	-2.8	-2.8	-3.0	-2.9	-2.3	-0.7	1.4	2.1	3.0	3.2	3.3	3.1	2.6	2.0	2.2	2.1	1.9	-0.2	3.3
12-Feb	1.9	1.8	1.9	1.5	0.8	0.1	-0.6	-0.8	-0.8	-0.7	-0.1	0.3	1.0	2.7	4.1	4.6	5.1	5.3	4.9	4.7	5.4	5.6	5.5	5.2	2.5	5.6
13-Feb	4.4	3.6	3.3	3.3	2.9	2.1	1.6	0.8	0.4	0.4	1.5	2.1	2.8	3.6	4.3	4.7	4.6	4.4	3.8	3.2	2.4	1.1	0.2	-0.9	2.5	4.7
14-Feb	-1.7	-2.0	-2.0	-2.5	-3.3	-4.0	-4.2	-4.8	-5.2	-5.8	-5.3	-4.7	-3.0	-2.3	-1.8	-0.2	0.0	0.2	-1.7	-2.9	-3.4	-3.9	-4.0	-7.7	-3.2	0.2
15-Feb	-8.3	-10.4	-12.6	-13.3	-14.3	-15.5	-15.9	-16.2	-16.7	-17.2	-17.8	-18.1	-18.3	-18.1	-17.7	-17.2	-16.9	-17.9	-19.2	-20.4	-21.0	-21.4	-21.9	-22.3	-17.0	-8.3
16-Feb	-22.7	-23.2	-24.3	-24.6	-24.8	-25.7	-25.3	-25.4	-25.3	-25.4	-24.6	-23.0	-22.1	-21.2	-19.8	-19.4	-19.1	-19.6	-20.5	-21.6	-22.3	-23.0	-23.8	-24.5	-23.0	-19.1
17-Feb	-25.3	-25.8	-26.4	-26.8	-27.5	-27.9	-28.4	-28.9	-29.0	-28.7	-28.3	-27.7	-26.8	-26.2	-26.3	-26.5	-26.8	-27.1	-27.3	-27.7	-28.0	-28.4	-28.7	-29.3	-27.5	-25.3
18-Feb	-29.8	-30.2	-30.6	-30.9	-31.0	-31.1	-31.3	-31.3	-31.4	-31.4	-31.3	-31.2	-30.9	-30.7	-30.5	-30.3	-30.5	-30.7	-30.9	-31.2	-31.3	-31.3	-31.3	-31.5	-30.9	-29.8
19-Feb	-31.5	-31.5	-31.8	-31.7	-31.7	-32.1	-33.3	-34.7	-33.8	-33.3	-32.6	-30.6	-27.6	-25.1	-23.0	-21.4	-20.2	-19.7	-19.6	-19.7	-20.0	-20.6	-20.7	-21.3	-27.0	-19.6
20-Feb	-21.6	-21.9	-22.7	-23.4	-23.6	-23.8	-24.8	-25.3	-25.0	-25.5	-25.1	-23.2	-20.4	-17.9	-16.7	-16.2	-16.1	-15.9	-16.9	-18.9	-20.6	-22.0	-22.9	-23.7	-21.4	-15.9
21-Feb	-24.5	-25.0	-25.7	-26.3	-26.8	-26.3	-25.5	-24.3	-23.1	-22.4	-21.1	-19.7	-19.6	-18.5	-18.0	-17.8	-18.0	-18.3	-19.1	-21.0	-22.2	-23.3	-24.5	-25.3	-22.3	-17.8
22-Feb	-25.9	-26.0	-26.0	-26.1	-26.3	-27.1	-27.4	-27.6	-28.0	-28.1	-27.5	-26.5	-25.2	-23.7	-23.0	-22.5	-21.2	-19.8	-18.4	-18.3	-18.5	-18.8	-19.1	-19.5	-23.8	-18.3
23-Feb	-19.8	-20.1	-20.5	-20.6	-20.7	-20.9	-21.0	-21.2	-21.2	-21.0	-20.1	-18.8	-18.3	-16.2	-15.8	-16.1	-16.5	-16.5	-16.5	-16.5	-16.6	-16.6	-17.5	-18.4	-18.6	-15.8
24-Feb	-18.9	-18.9	-18.7	-18.3	-18.7	-19.3	-19.5	-19.6	-19.8	-19.9	-19.5	-17.8	-16.1	-14.8	-14.1	-13.4	-12.7	-12.3	-12.0	-12.7	-13.6	-14.3	-14.3	-14.6	-16.4	-12.0
25-Feb	-14.5	-14.1	-14.7	-14.9	-15.0	-15.0	-14.9	-14.9	-14.8	-14.8	-14.2	-13.0	-11.3	-9.8	-8.7	-7.6	-7.2	-6.7	-7.0	-8.1	-8.9	-10.1	-11.6	-12.5	-11.9	-6.7
26-Feb	-13.9	-15.0	-15.5	-16.1	-16.8	-16.9	-17.2	-17.3	-17.2	-16.9	-16.7	-16.7	-16.3	-16.5	-17.7	-18.1	-18.9	-19.4	-19.5	-20.2	-21.2	-22.2	-23.1	-23.7	-18.0	-13.9
27-Feb	-24.4	-25.2	-25.9	-27.0	-27.9	-29.0	-29.9	-30.5	-30.7	-30.1	-29.3	-28.7	-28.0	-27.2	-26.2	-25.7	-25.5	-25.8	-25.9	-26.3	-26.5	-26.6	-27.1	-27.5	-27.4	-24.4
28-Feb	-28.5	-29.0	-29.2	-29.5	-29.2	-29.3	-30.7	-30.6	-30.5	-31.1	-29.6	-26.5	-22.8	-19.9	-17.8	-16.0	-14.9	-14.1	-13.7	-13.3	-12.5	-13.0	-13.8	-14.6	-22.5	-12.5
	-14.8	-15.1	-15.4	-15.7	-15.9	-16.1	-16.4	-16.7	-16.7	-16.6	-16.1	-15.3	-14.2	-13.2	-12.5	-12.0	-11.8	-11.9	-12.3	-12.9	-13.3	-13.7	-14.0	-14.5	Diurnal Average	
	4.4	3.6	3.3	3.3	2.9	2.9	3.5	3.8	4.2	4.9	6.2	7.4	8.3	9.0	9.4	9.7	9.7	8.2	4.9	4.7	5.4	5.6	5.5	5.2	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 75m (AT75) - C

Mannix - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	196	29.17	29.17
-20 - 0	405	60.27	89.43
0 - 10	71	10.57	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 9.1 C on Feb 4 16:00

Maximum Daily Average: 2.2 C on Feb 4

Minimum Value: -35.5 C on Feb 19 08:00

Minimum Daily Average: -32.7 C on Feb 18

Maximum Diurnal Average: -13.0 C at hour 17

Minimum Diurnal Average: -17.9 C at hour 9

Monthly Average: -15.61 C

Percentiles: P_1 = -33.2 P_{10} = -29.4 Q_1 = -22.8 Median = -15.8 Q_3 = -8.9 P_{90} = -0.4 P_{99} = 5.9

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

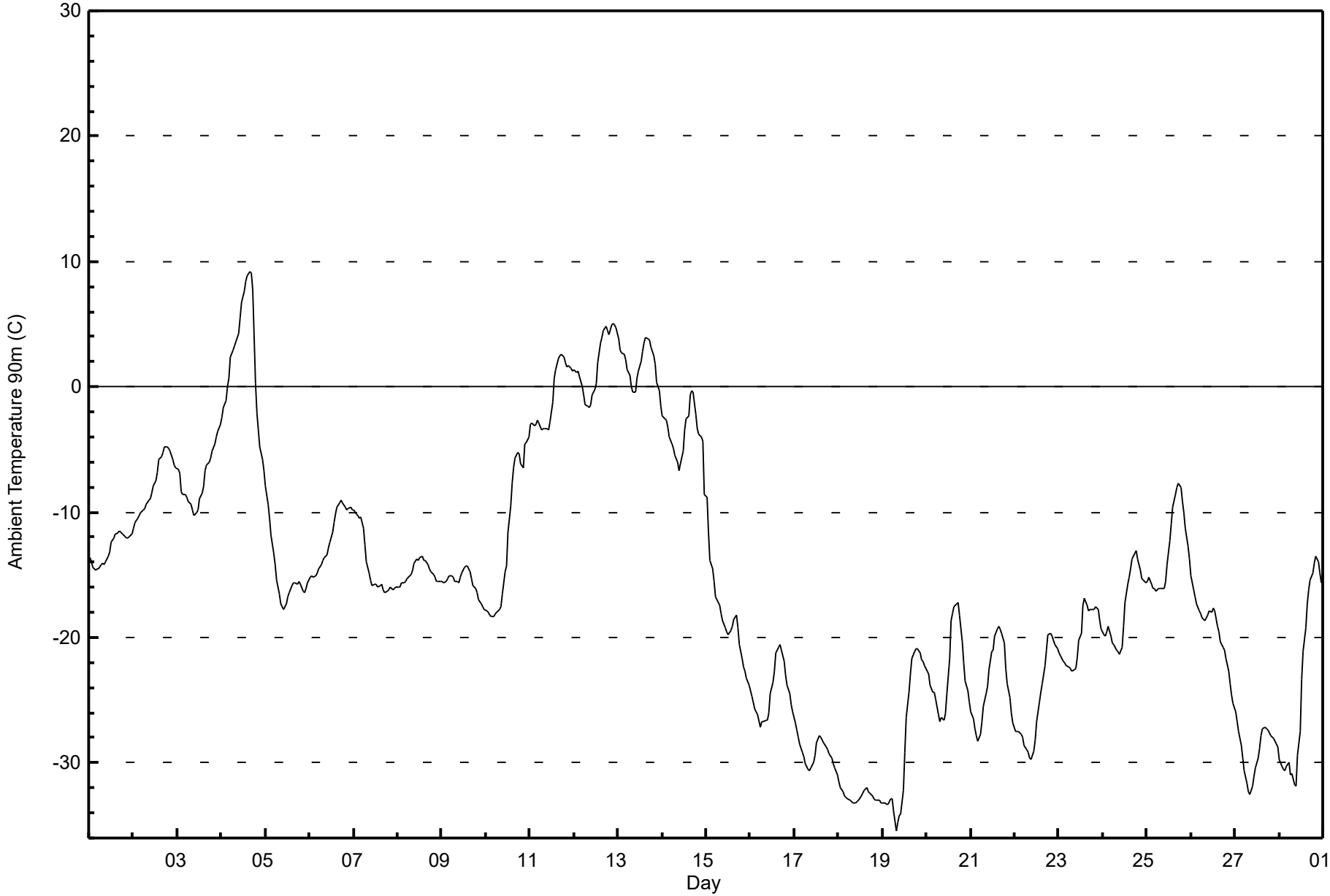
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-13.7	-14.0	-14.4	-14.6	-14.5	-14.5	-14.2	-14.1	-14.2	-14.0	-13.5	-13.2	-12.4	-12.1	-11.7	-11.7	-11.5	-11.6	-11.7	-11.9	-12.0	-12.0	-12.0	-11.7	-13.0	-11.5
2-Feb	-11.3	-10.9	-10.5	-10.3	-10.0	-9.8	-9.7	-9.4	-9.1	-8.9	-8.4	-7.9	-7.5	-6.8	-5.8	-5.6	-5.2	-4.8	-4.7	-4.9	-5.1	-5.7	-6.2	-6.5	-7.7	-4.7
3-Feb	-6.6	-6.9	-8.3	-8.6	-8.6	-8.9	-9.1	-9.4	-9.9	-10.3	-10.1	-9.8	-9.0	-8.5	-7.9	-6.7	-6.3	-6.1	-5.6	-5.1	-4.6	-4.0	-3.5	-3.0	-7.4	-3.0
4-Feb	-2.5	-1.6	-1.0	0.0	0.7	2.4	2.9	3.3	3.6	4.3	5.5	6.8	7.7	8.4	8.9	9.1	9.1	7.8	0.2	-2.2	-3.4	-4.8	-5.8	-6.6	2.2	9.1
5-Feb	-7.9	-9.4	-10.5	-11.9	-13.3	-14.2	-15.4	-16.5	-17.3	-17.6	-17.7	-17.3	-16.8	-16.4	-15.8	-15.6	-15.6	-15.8	-15.6	-15.7	-16.3	-16.4	-16.1	-15.6	-15.0	-7.9
6-Feb	-15.2	-15.1	-15.2	-15.1	-14.9	-14.5	-14.1	-13.9	-13.7	-13.4	-12.8	-12.3	-11.6	-10.9	-10.2	-9.6	-9.2	-9.1	-9.3	-9.6	-9.8	-9.7	-9.6	-9.8	-12.0	-9.1
7-Feb	-9.9	-10.2	-10.3	-10.4	-10.4	-11.2	-12.6	-14.0	-14.8	-15.4	-15.9	-15.8	-15.8	-15.9	-15.9	-15.8	-16.2	-16.4	-16.3	-16.2	-16.0	-16.1	-16.1	-15.9	-14.3	-9.9
8-Feb	-16.0	-15.9	-15.7	-15.7	-15.5	-15.3	-15.1	-14.9	-14.6	-14.1	-13.8	-13.9	-13.7	-13.6	-13.8	-13.9	-14.2	-14.5	-14.8	-15.0	-15.2	-15.5	-15.5	-15.5	-14.8	-13.6
9-Feb	-15.5	-15.6	-15.5	-15.3	-15.1	-15.1	-15.2	-15.5	-15.5	-15.6	-15.2	-14.8	-14.4	-14.3	-14.3	-14.7	-15.3	-15.9	-16.1	-16.4	-17.0	-17.3	-17.6	-17.8	-15.6	-14.3
10-Feb	-17.9	-18.0	-18.3	-18.3	-18.3	-18.2	-17.9	-17.7	-17.6	-16.6	-14.7	-14.3	-11.6	-9.5	-7.7	-6.4	-5.6	-5.2	-5.4	-6.1	-6.5	-4.6	-4.4	-4.0	-11.9	-4.0
11-Feb	-2.9	-2.9	-3.1	-3.0	-2.6	-2.9	-3.4	-3.3	-3.3	-3.3	-3.4	-2.8	-1.2	0.7	1.3	2.2	2.4	2.6	2.4	1.9	1.6	1.7	1.4	1.2	-0.8	2.6
12-Feb	1.4	1.1	1.2	0.8	0.1	-0.6	-1.4	-1.6	-1.7	-1.4	-0.7	-0.2	0.2	1.9	3.4	3.9	4.5	4.8	4.4	4.2	4.9	5.0	5.0	4.7	1.8	5.0
13-Feb	3.8	3.0	2.7	2.6	2.2	1.4	0.9	0.0	-0.4	-0.4	0.7	1.3	2.1	2.8	3.5	3.9	3.8	3.7	3.1	2.5	1.8	0.4	-0.4	-1.5	1.8	3.9
14-Feb	-2.3	-2.5	-2.7	-3.3	-4.0	-4.6	-4.8	-5.4	-6.0	-6.7	-6.1	-5.2	-3.4	-2.5	-2.3	-0.7	-0.3	-0.5	-2.2	-3.4	-3.8	-4.1	-4.3	-8.6	-3.7	-0.3
15-Feb	-8.8	-11.6	-13.8	-14.5	-15.5	-16.7	-17.2	-17.5	-18.1	-18.6	-19.2	-19.5	-19.7	-19.5	-19.1	-18.6	-18.2	-19.2	-20.6	-21.7	-22.4	-22.7	-23.3	-23.8	-18.3	-8.8
16-Feb	-24.2	-24.7	-25.8	-26.0	-26.1	-27.1	-26.7	-26.8	-26.6	-26.6	-26.1	-24.5	-23.6	-22.7	-21.3	-20.8	-20.6	-21.1	-21.9	-23.1	-23.8	-24.5	-25.3	-26.0	-24.4	-20.6
17-Feb	-26.9	-27.4	-28.0	-28.5	-29.1	-29.5	-30.1	-30.6	-30.7	-30.4	-30.0	-29.4	-28.4	-27.8	-27.9	-28.2	-28.4	-28.7	-28.9	-29.3	-29.6	-30.0	-30.4	-31.0	-29.1	-26.9
18-Feb	-31.5	-31.9	-32.3	-32.6	-32.8	-32.9	-33.0	-33.1	-33.2	-33.2	-33.1	-33.0	-32.7	-32.5	-32.2	-32.0	-32.3	-32.5	-32.6	-32.9	-33.0	-33.0	-33.0	-33.2	-32.7	-31.5
19-Feb	-33.2	-33.2	-33.3	-33.3	-32.9	-32.8	-33.9	-35.5	-34.8	-34.3	-34.1	-32.2	-29.1	-26.4	-24.4	-22.9	-21.7	-21.1	-20.9	-21.0	-21.2	-21.8	-21.9	-22.2	-28.2	-20.9
20-Feb	-22.6	-22.9	-23.8	-24.3	-24.4	-25.0	-26.1	-26.7	-26.4	-26.7	-26.0	-24.5	-21.6	-18.7	-18.1	-17.5	-17.3	-17.2	-18.2	-20.3	-22.1	-23.4	-24.3	-25.1	-22.6	-17.2
21-Feb	-26.0	-26.5	-27.2	-27.8	-28.3	-27.7	-26.8	-25.5	-24.5	-23.9	-22.6	-21.1	-21.0	-19.9	-19.4	-19.1	-19.3	-19.6	-20.4	-22.5	-23.7	-24.9	-26.1	-26.8	-23.8	-19.1
22-Feb	-27.5	-27.5	-27.5	-27.7	-27.9	-28.6	-29.0	-29.2	-29.7	-29.7	-29.1	-28.1	-26.7	-25.2	-24.4	-23.7	-22.3	-21.0	-19.7	-19.7	-19.9	-20.2	-20.5	-20.9	-25.2	-19.7
23-Feb	-21.2	-21.5	-21.9	-22.0	-22.2	-22.3	-22.4	-22.7	-22.6	-22.5	-21.5	-20.2	-19.7	-17.4	-16.9	-17.4	-17.8	-17.8	-17.8	-17.7	-17.6	-17.7	-18.6	-19.3	-20.0	-16.9
24-Feb	-19.8	-19.9	-19.6	-19.2	-19.9	-20.5	-20.6	-21.0	-21.2	-21.3	-20.8	-19.2	-17.2	-15.8	-15.2	-14.5	-13.7	-13.3	-13.0	-13.7	-14.6	-15.3	-15.4	-15.6	-17.5	-13.0
25-Feb	-15.6	-15.2	-15.8	-16.1	-16.1	-16.3	-16.1	-16.1	-16.1	-16.1	-15.5	-14.2	-12.3	-10.9	-9.6	-8.6	-8.1	-7.7	-8.0	-9.2	-10.1	-11.3	-12.7	-13.7	-13.0	-7.7
26-Feb	-15.1	-16.2	-16.7	-17.3	-17.9	-18.2	-18.4	-18.6	-18.4	-18.2	-17.9	-18.0	-17.6	-17.9	-19.1	-19.5	-20.3	-20.8	-21.0	-21.6	-22.6	-23.7	-24.6	-25.3	-19.4	-15.1
27-Feb	-25.9	-26.8	-27.5	-28.7	-29.6	-30.6	-31.6	-32.3	-32.5	-31.9	-31.1	-30.4	-29.7	-28.9	-27.9	-27.3	-27.1	-27.3	-27.4	-27.8	-28.0	-28.1	-28.5	-28.8	-29.0	-25.9
28-Feb	-29.7	-30.3	-30.5	-30.7	-30.3	-30.0	-31.0	-30.9	-31.7	-31.8	-29.4	-27.5	-23.4	-21.1	-19.2	-17.3	-16.2	-15.4	-14.8	-14.1	-13.5	-14.0	-14.8	-15.7	-23.5	-13.5
	-15.9	-16.2	-16.6	-16.8	-17.0	-17.3	-17.6	-17.8	-17.9	-17.8	-17.2	-16.5	-15.4	-14.3	-13.7	-13.2	-13.0	-13.0	-13.5	-14.0	-14.4	-14.8	-15.2	-15.6	Diurnal Average	
	3.8	3.0	2.7	2.6	2.2	2.4	2.9	3.3	3.6	4.3	5.5	6.8	7.7	8.4	8.9	9.1	9.1	7.8	4.4	4.2	4.9	5.0	5.0	4.7	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 90m (AT90) - C

Mannix - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	224	33.33	33.33
-20 - 0	386	57.44	90.77
0 - 10	62	9.23	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity (RH) - %

Mannix - February 2026

Maximum Value: 95 % on Feb 4 22:00

Maximum Daily Average: 86.7 % on Feb 2

Minimum Value: 42 % on Feb 13 15:00

Minimum Daily Average: 53.2 % on Feb 13

Maximum Diurnal Average: 81.0 % at hour 8

Minimum Diurnal Average: 67.9 % at hour 15

Monthly Average: 76.6 %

Percentiles: $P_1 = 50$ $P_{10} = 63$ $Q_1 = 70$ Median = 78 $Q_3 = 84$ $P_{90} = 88$ $P_{99} = 93$

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

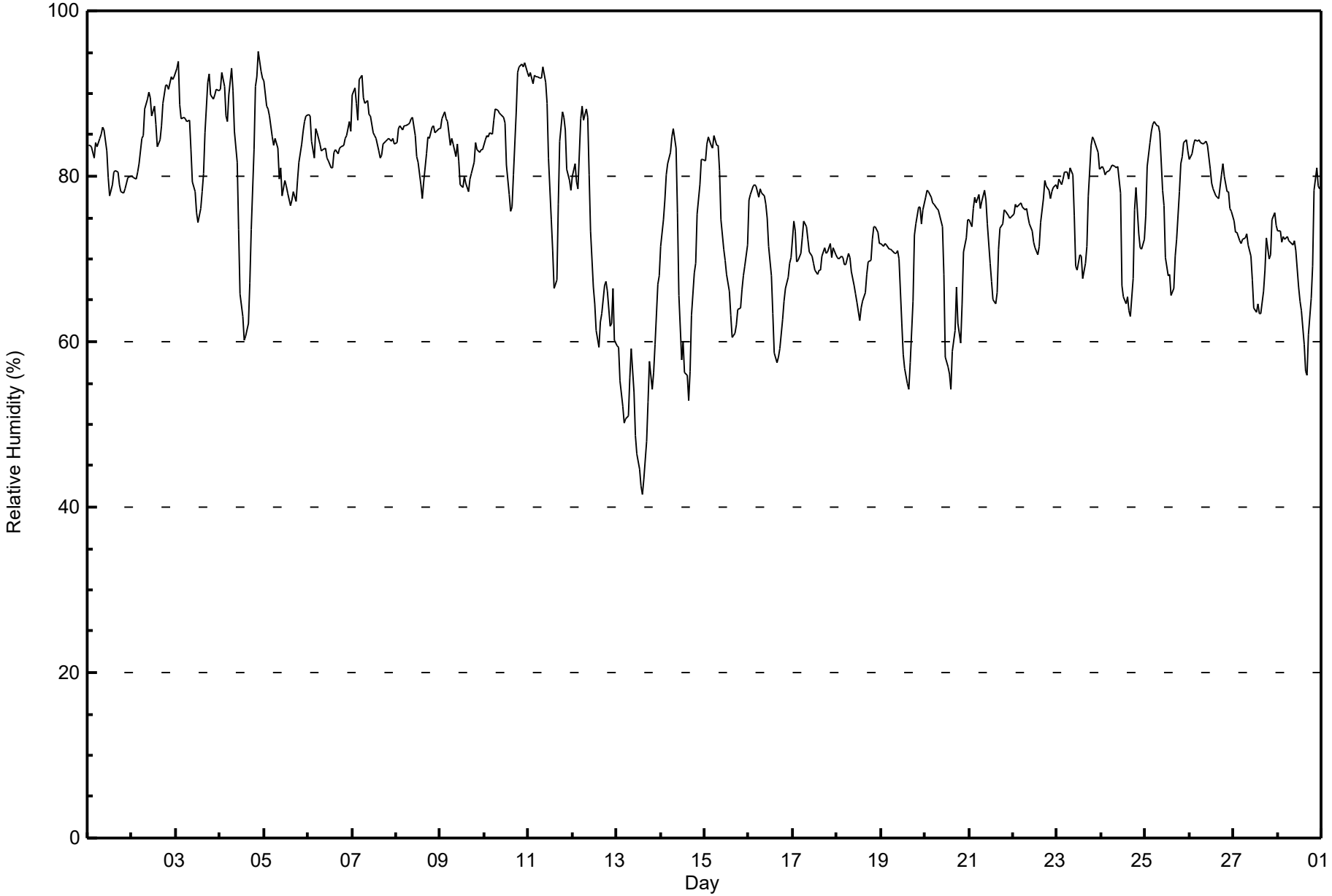
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	84	84	84	82	84	84	85	85	86	86	83	80	78	79	80	81	80	79	78	78	79	79	80	80	81.5	86
2-Feb	80	80	80	81	82	85	85	88	89	90	89	87	89	86	84	84	86	89	91	91	91	92	92	92	86.7	92
3-Feb	93	94	89	87	87	87	87	87	83	79	78	76	74	76	78	80	85	91	92	90	89	90	90	90	85.6	94
4-Feb	91	93	91	87	87	90	93	90	85	82	74	66	63	60	61	62	67	73	83	91	92	95	93	92	81.7	95
5-Feb	91	88	88	87	85	84	85	83	80	81	78	79	79	78	76	77	78	77	80	82	84	86	87	87	82.5	91
6-Feb	87	87	84	82	86	85	84	83	83	83	82	82	81	81	83	83	83	83	84	84	85	85	87	85	83.9	87
7-Feb	90	91	89	87	92	92	90	89	89	88	87	85	85	85	83	82	82	84	84	84	85	84	85	84	86.4	92
8-Feb	84	86	86	86	86	86	86	86	87	87	85	82	82	79	77	79	83	85	85	86	86	85	85	86	84.4	87
9-Feb	86	87	88	87	87	84	85	84	82	84	82	79	79	80	79	78	80	80	82	84	83	83	83	83	82.8	88
10-Feb	84	85	85	85	85	87	88	88	88	87	87	87	81	78	76	76	80	88	92	93	94	93	94	93	86.4	94
11-Feb	92	93	91	92	92	92	92	92	93	91	89	82	75	71	67	68	77	84	88	87	86	81	80	78	84.6	93
12-Feb	80	82	79	79	87	88	87	88	87	80	73	67	65	61	59	62	63	67	67	66	62	62	66	60	72.5	88
13-Feb	59	59	55	52	50	51	51	56	59	54	49	46	45	43	42	43	48	53	58	54	56	60	67	68	53.2	68
14-Feb	72	75	77	80	82	83	85	86	83	76	66	58	60	56	56	53	56	63	68	69	75	79	82	82	71.7	86
15-Feb	82	84	85	84	83	85	84	84	81	75	71	70	68	66	63	61	61	62	64	64	66	68	69	72	72.9	85
16-Feb	77	78	79	79	79	77	79	78	78	77	75	72	68	63	59	57	58	59	63	65	66	68	70	70	70.5	79
17-Feb	75	73	70	70	71	73	75	74	72	71	70	69	69	68	69	69	70	71	71	71	72	70	71	71	71.0	75
18-Feb	70	70	70	70	69	69	71	70	68	67	66	65	63	64	65	66	68	70	70	72	74	74	73	72	69.0	74
19-Feb	72	72	72	72	71	71	71	71	71	71	70	62	58	57	55	54	57	65	73	74	76	76	74	76	68.4	76
20-Feb	77	78	78	77	77	77	76	76	75	74	68	58	57	56	54	59	61	67	62	60	64	71	73	75	68.8	78
21-Feb	75	74	76	77	77	78	76	77	78	77	74	70	67	65	65	66	71	74	74	76	76	75	75	75	73.7	78
22-Feb	75	77	76	77	77	76	76	76	75	74	73	72	71	71	72	74	77	79	79	78	77	78	79	79	75.8	79
23-Feb	78	80	79	80	80	81	80	81	80	75	69	69	70	70	68	70	71	78	84	85	84	83	83	81	77.4	85
24-Feb	81	81	80	80	81	81	81	81	81	81	78	67	65	65	65	64	63	68	76	79	73	71	71	72	74.4	81
25-Feb	75	81	84	85	86	87	86	86	85	78	76	70	68	68	66	66	70	72	78	82	82	84	84	83	78.6	87
26-Feb	82	83	84	84	84	84	84	84	84	84	84	81	79	78	78	77	77	80	82	80	78	78	76	76	80.9	84
27-Feb	75	73	73	72	72	72	73	73	72	70	67	64	64	65	63	63	66	69	72	70	70	75	76	74	70.1	76
28-Feb	73	73	72	73	72	73	72	72	72	72	71	67	65	64	60	56	56	61	65	69	78	81	79	79	69.8	81
	80.1	80.7	80.1	79.8	80.3	80.7	80.8	81.0	80.3	78.4	75.5	71.8	70.3	69.0	67.9	68.3	70.7	74.0	76.6	77.3	78.0	78.8	79.4	79.1	Diurnal Average	
	93	94	91	92	92	92	93	92	93	91	89	87	89	86	84	84	86	91	92	93	94	95	94	93	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity (RH) - %

Mannix - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	0	0.00	0.00
40 - 60	46	6.85	6.85
60 - 80	343	51.04	57.89
80 - 100	283	42.11	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 95 % on Feb 4 22:00

Maximum Daily Average: 85.8 % on Feb 7

Minimum Value: 37 % on Feb 13 15:00

Minimum Daily Average: 42.7 % on Feb 13

Maximum Diurnal Average: 77.9 % at hour 8

Minimum Diurnal Average: 66.9 % at hour 16

Monthly Average: 74.0 %

Percentiles: P_1 = 39 P_{10} = 59 Q_1 = 68 Median = 75 Q_3 = 83 P_{90} = 86 P_{99} = 92

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

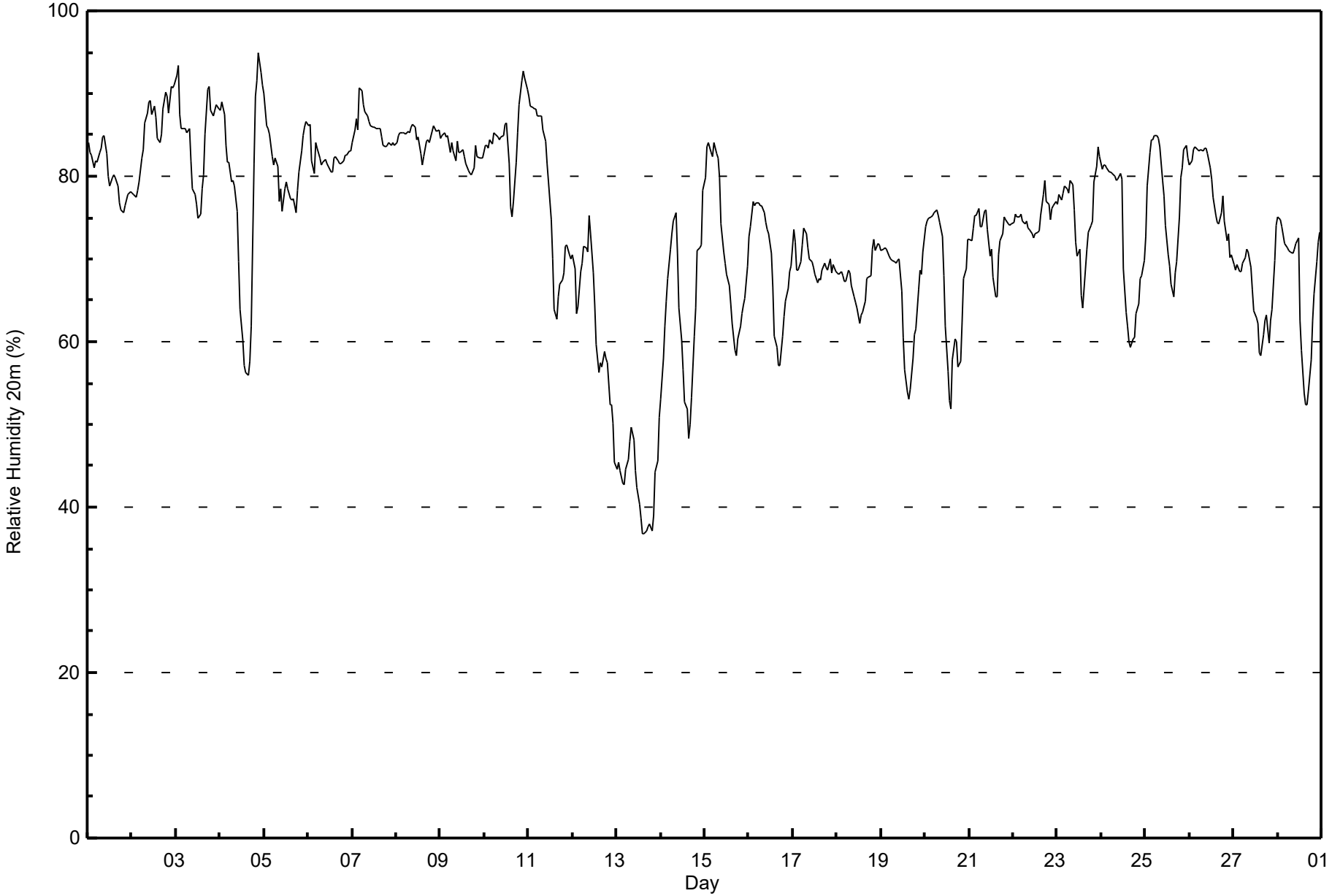
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	84	83	83	81	82	82	83	83	85	85	83	80	79	80	80	80	79	77	76	76	76	77	78	78	80.3	85
2-Feb	78	78	78	78	79	82	83	86	88	89	89	88	88	87	85	84	85	88	90	90	88	91	91	91	85.6	91
3-Feb	92	93	87	86	86	86	85	86	82	79	78	77	75	75	79	80	85	90	91	88	87	88	89	88	84.7	93
4-Feb	88	89	87	84	82	82	79	79	79	76	70	64	60	57	56	56	58	62	82	90	92	95	92	91	77.0	95
5-Feb	90	86	86	85	82	81	82	81	77	78	76	79	79	78	77	77	77	76	78	80	83	85	86	87	81.2	90
6-Feb	86	86	82	80	84	83	82	81	82	82	81	81	80	80	82	82	82	82	82	82	83	83	83	83	82.3	86
7-Feb	84	86	87	86	91	90	89	88	87	87	86	86	86	86	86	86	85	84	83	84	84	84	84	84	85.8	91
8-Feb	84	85	85	85	85	85	85	85	86	86	86	84	85	83	81	82	84	84	84	86	86	86	85	86	84.8	86
9-Feb	85	85	85	85	85	83	84	83	82	84	83	83	83	82	81	81	80	80	81	84	82	82	82	82	82.8	85
10-Feb	84	84	83	84	84	85	85	85	84	85	85	86	86	82	76	75	77	82	85	89	92	93	92	90	84.7	93
11-Feb	90	89	88	88	88	87	87	87	86	84	82	79	75	70	64	63	65	67	67	68	71	72	71	70	77.4	90
12-Feb	70	69	63	64	68	70	72	71	71	75	73	68	64	60	56	58	57	59	58	57	52	52	50	45	62.7	75
13-Feb	45	45	44	43	43	45	46	48	50	48	44	42	40	39	37	37	37	38	38	37	39	44	46	51	42.7	51
14-Feb	53	58	62	65	68	71	73	75	76	71	64	60	57	53	52	48	50	53	61	64	71	71	72	78	63.5	78
15-Feb	80	83	84	83	82	84	83	82	80	74	71	69	68	67	65	62	59	58	60	62	63	64	65	69	71.6	84
16-Feb	73	74	77	76	77	77	76	76	76	74	74	73	71	67	61	59	57	57	61	63	65	66	68	69	69.5	77
17-Feb	74	72	69	69	70	72	74	73	71	70	70	69	68	67	68	67	69	69	69	69	70	68	69	68	69.7	74
18-Feb	68	68	68	68	67	67	69	68	67	65	65	64	62	63	63	65	68	68	68	71	72	71	72	72	67.5	72
19-Feb	71	71	71	71	70	70	70	70	70	70	70	66	61	57	54	53	54	58	61	61	66	69	68	71	65.5	71
20-Feb	74	75	75	75	75	76	76	75	74	73	68	62	56	53	52	58	60	60	57	58	62	68	69	72	66.8	76
21-Feb	72	72	74	75	75	76	74	74	76	76	74	70	71	68	65	65	70	72	73	75	75	74	74	74	72.8	76
22-Feb	74	75	75	75	75	75	74	75	74	73	73	73	73	73	73	75	78	80	77	77	75	76	76	77	75.1	80
23-Feb	77	78	77	78	79	78	78	80	79	76	72	70	71	66	64	69	71	73	74	75	79	81	83	82	75.4	83
24-Feb	81	81	81	81	80	80	80	80	79	80	80	80	69	63	62	60	59	60	61	63	65	68	68	70	72.2	81
25-Feb	73	79	83	84	84	85	85	85	84	79	78	74	71	69	67	65	68	70	75	80	81	83	84	82	77.8	85
26-Feb	81	82	83	84	83	83	83	83	83	83	83	81	80	77	75	74	74	76	78	75	72	73	70	71	78.7	84
27-Feb	69	69	69	69	68	70	70	71	71	69	66	64	63	62	59	58	61	63	63	60	63	64	70	74	66.0	74
28-Feb	75	75	74	73	72	71	71	71	71	71	72	73	63	59	54	52	52	54	58	63	66	70	72	73	66.8	75
	76.9	77.5	77.2	77.0	77.4	77.7	77.8	77.9	77.4	76.6	74.8	73.0	70.9	68.7	66.9	66.9	68.0	69.2	71.1	72.3	73.6	74.9	75.3	76.1	Diurnal Average	
	92	93	88	88	91	90	89	88	88	89	89	88	88	87	86	86	85	90	91	90	92	95	92	91	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 20m (RH20) - %

Mannix - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	8	1.19	1.19
40 - 60	66	9.82	11.01
60 - 80	353	52.53	63.54
80 - 100	245	36.46	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 96 % on Feb 4 22:00

Maximum Daily Average: 86.4 % on Feb 8

Minimum Value: 35 % on Feb 13 19:00

Minimum Daily Average: 41.3 % on Feb 13

Maximum Diurnal Average: 77.6 % at hour 8

Minimum Diurnal Average: 67.8 % at hour 16

Monthly Average: 73.8 %

Percentiles: P_1 = 38 P_{10} = 59 Q_1 = 67 Median = 76 Q_3 = 84 P_{90} = 86 P_{99} = 92

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

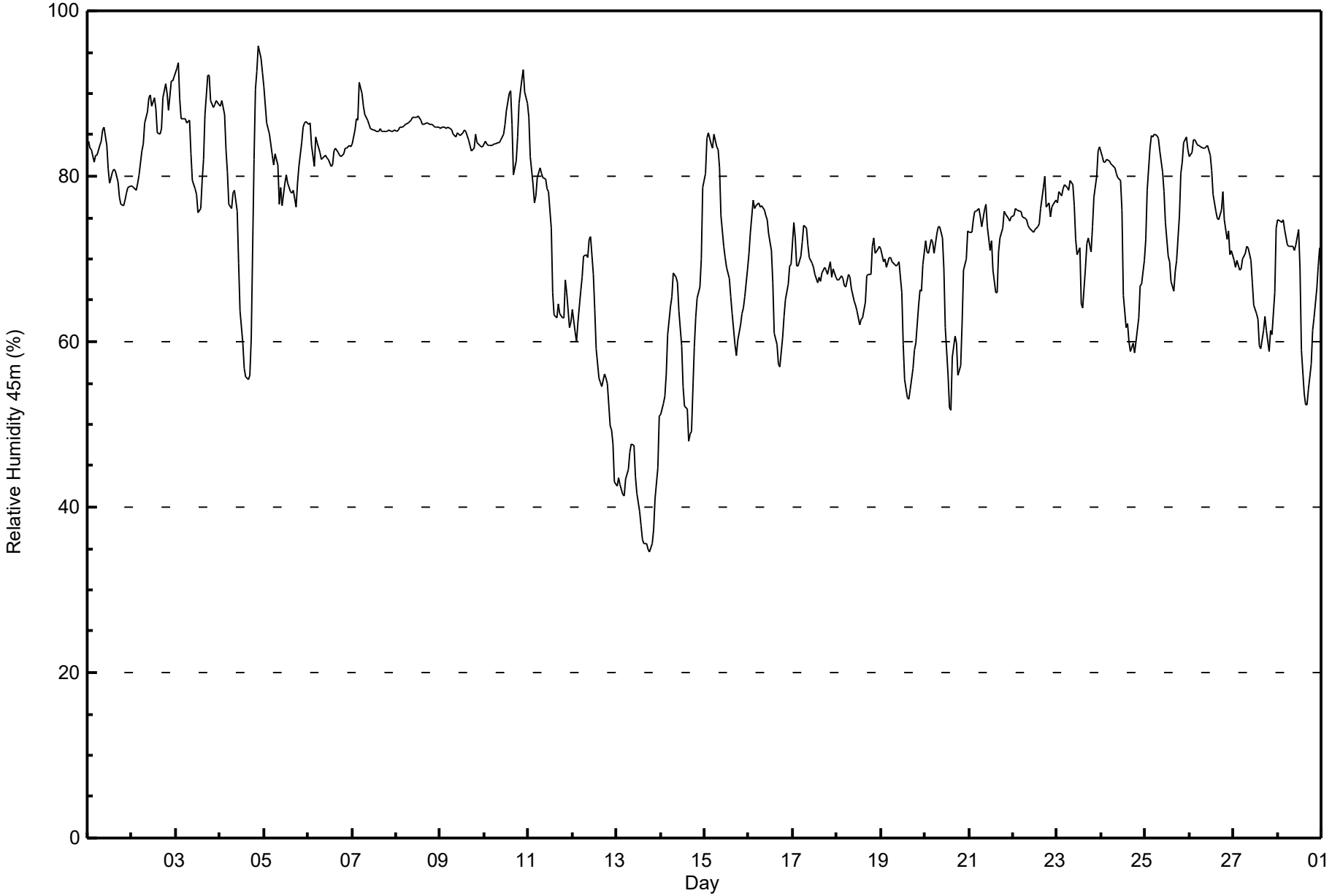
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	84	83	83	82	83	83	84	84	86	86	84	81	79	80	81	81	79	77	77	76	77	78	79	79	81.1	86
2-Feb	79	79	78	79	80	83	84	86	88	89	90	88	89	88	85	85	86	89	91	90	88	91	92	92	86.3	92
3-Feb	93	94	89	87	87	87	86	87	83	79	79	78	76	76	79	82	87	92	92	89	88	89	89	89	85.7	94
4-Feb	88	89	87	83	80	77	76	78	78	76	69	64	60	57	56	55	56	60	82	91	93	96	94	93	76.6	96
5-Feb	91	86	86	85	83	81	83	81	77	79	76	79	80	79	78	78	78	76	79	81	84	86	86	87	81.7	91
6-Feb	86	86	84	81	85	84	83	82	82	83	82	82	81	81	83	83	83	83	82	83	83	83	84	84	83.1	86
7-Feb	84	86	87	87	91	90	89	87	87	86	86	86	86	85	85	86	85	85	85	85	86	85	85	86	86.3	91
8-Feb	85	86	86	86	86	86	86	87	87	87	87	87	87	87	86	86	87	87	86	86	86	86	86	86	86.4	87
9-Feb	86	86	86	86	86	86	86	85	85	85	85	85	85	86	85	84	84	83	83	85	84	84	83	83	84.9	86
10-Feb	84	84	84	84	84	84	84	84	84	84	85	86	88	90	90	86	80	82	85	89	92	93	90	89	86.0	93
11-Feb	87	82	79	77	78	80	81	80	80	80	79	78	74	66	63	63	65	63	63	63	67	66	62	62	72.4	87
12-Feb	64	61	60	62	66	68	70	71	70	72	73	68	64	59	56	55	55	56	56	55	50	49	48	43	60.4	73
13-Feb	42	43	43	42	41	43	45	47	48	47	44	42	39	38	36	36	36	35	35	36	37	41	45	51	41.3	51
14-Feb	51	53	53	56	61	64	65	68	68	67	64	59	55	52	52	48	49	49	59	63	65	67	70	79	59.9	79
15-Feb	80	85	85	84	83	85	84	83	81	75	72	70	69	68	65	63	60	58	60	62	63	64	65	69	72.3	85
16-Feb	71	73	77	76	76	77	76	76	76	75	75	73	71	67	61	60	57	57	61	63	65	67	69	69	69.6	77
17-Feb	74	73	69	69	70	72	74	74	72	70	70	69	68	67	68	67	68	69	69	68	70	68	69	68	69.8	74
18-Feb	68	68	68	68	67	67	68	68	66	65	64	64	62	63	63	65	68	68	68	72	73	71	71	72	67.2	73
19-Feb	71	70	70	69	70	70	70	69	69	69	70	66	60	55	53	53	54	57	59	60	64	66	66	69	64.6	71
20-Feb	72	71	71	72	72	71	73	74	74	73	69	62	56	52	52	58	61	60	56	57	62	69	70	73	65.8	74
21-Feb	73	73	75	76	76	76	75	74	76	77	74	71	72	69	66	66	71	73	74	76	75	75	75	75	73.4	77
22-Feb	75	76	76	76	76	75	75	75	74	74	73	73	74	74	74	76	79	80	76	77	75	76	77	77	75.5	80
23-Feb	77	78	78	78	79	79	78	79	79	76	72	70	71	64	64	69	72	73	71	74	77	80	83	84	75.3	84
24-Feb	82	82	82	82	82	82	81	81	80	80	79	76	66	62	62	60	59	60	59	60	63	67	67	70	71.8	82
25-Feb	72	78	83	85	85	85	85	85	83	81	78	74	70	70	67	66	69	70	75	80	82	84	85	83	78.1	85
26-Feb	82	83	84	84	84	84	84	83	83	84	84	83	81	78	76	75	75	76	78	75	72	73	71	71	79.2	84
27-Feb	70	69	70	69	69	70	71	72	71	70	67	64	63	63	59	59	61	63	61	59	61	61	66	74	65.9	74
28-Feb	75	75	74	75	74	72	71	71	72	71	72	73	69	59	54	52	52	54	57	61	63	66	69	71	66.8	75
	76.7	76.8	76.7	76.4	76.9	77.1	77.4	77.6	77.1	76.5	75.0	73.3	71.2	69.1	67.9	67.8	68.4	69.1	70.7	72.0	73.1	74.3	74.8	75.9	Diurnal Average	
	93	94	89	87	91	90	89	87	88	89	90	88	89	90	90	86	87	92	92	91	93	96	94	93	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 45m (RH45) - %

Mannix - February 2026



Relative Humidity 45m (RH45) - %

Mannix - February 2026

Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	9	1.34	1.34
40 - 60	76	11.31	12.65
60 - 80	337	50.15	62.80
80 - 100	250	37.20	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 97 % on Feb 4 22:00

Maximum Daily Average: 87.9 % on Feb 3

Minimum Value: 35 % on Feb 13 19:00

Minimum Daily Average: 41.2 % on Feb 13

Maximum Diurnal Average: 77.9 % at hour 8

Minimum Diurnal Average: 69.0 % at hour 15

Monthly Average: 74.3 %

Percentiles: P_1 = 38 P_{10} = 59 Q_1 = 67 Median = 76 Q_3 = 85 P_{90} = 87 P_{99} = 94

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

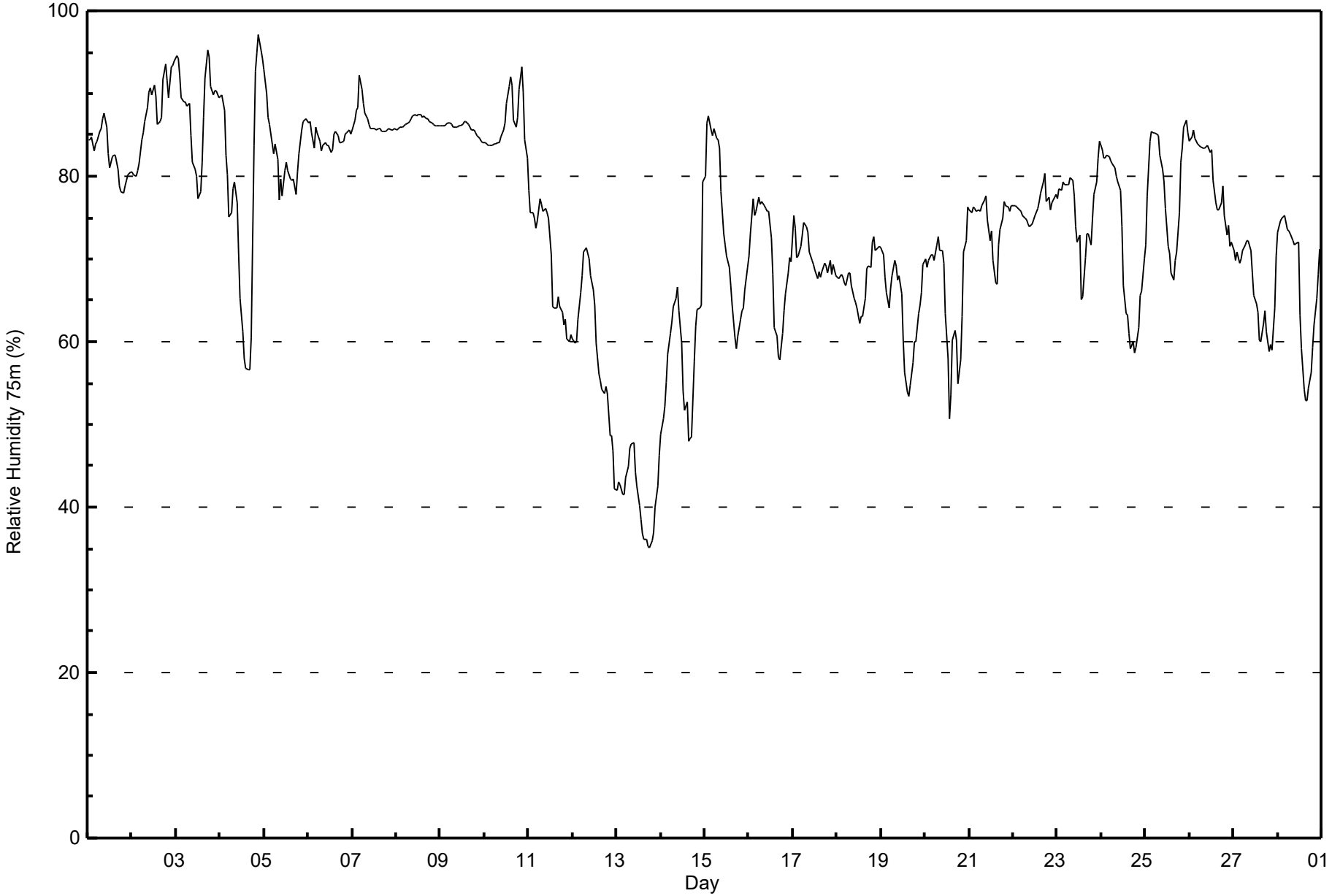
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	84	84	85	83	84	84	85	86	87	88	86	83	81	82	82	83	81	79	78	78	79	80	80	81	82.6	88
2-Feb	80	80	80	81	82	84	85	87	88	90	91	90	91	90	86	87	87	92	94	91	89	93	93	94	87.7	94
3-Feb	95	94	92	90	89	89	89	89	85	82	81	80	77	78	82	87	92	95	94	91	90	90	90	90	87.9	95
4-Feb	90	90	88	83	80	75	76	78	79	77	71	65	61	58	57	57	57	61	84	93	95	97	95	94	77.5	97
5-Feb	93	90	87	86	84	83	84	82	77	80	78	81	82	81	80	79	80	78	80	83	86	87	87	87	83.0	93
6-Feb	87	87	85	83	86	85	84	83	84	84	84	84	83	83	85	85	85	84	84	84	85	85	86	85	84.6	87
7-Feb	86	87	88	88	92	90	89	88	87	86	86	86	86	86	86	86	86	85	85	86	86	86	86	86	86.7	92
8-Feb	86	86	86	86	86	86	87	87	87	87	87	87	88	87	87	87	87	87	87	86	86	86	86	86	86.6	88
9-Feb	86	86	86	86	86	86	86	86	86	86	86	86	86	87	87	86	86	86	86	85	85	85	84	84	85.8	87
10-Feb	84	84	84	84	84	84	84	84	84	85	86	86	89	91	92	91	87	86	87	91	93	90	84	82	86.5	93
11-Feb	78	76	76	75	74	75	77	77	76	76	76	75	71	64	64	64	65	64	64	62	63	60	60	61	69.6	78
12-Feb	60	60	60	63	66	68	71	71	71	70	68	66	64	60	56	55	54	54	55	54	49	49	47	42	59.7	71
13-Feb	42	43	43	42	42	44	45	47	48	48	44	43	40	38	37	36	36	35	35	36	37	40	42	46	41.2	48
14-Feb	49	51	52	55	59	61	62	64	65	67	64	60	54	52	53	48	48	48	58	62	64	64	64	79	58.5	79
15-Feb	80	86	87	86	85	86	85	84	83	78	73	72	70	69	67	64	60	59	61	63	64	64	66	69	73.4	87
16-Feb	70	73	77	75	76	77	77	77	76	76	76	76	73	68	62	61	58	58	61	64	66	68	70	70	70.2	77
17-Feb	75	74	70	70	72	73	74	74	73	71	70	69	69	68	68	68	69	69	69	68	70	68	69	68	70.4	75
18-Feb	68	68	68	68	67	67	68	68	67	65	65	64	62	63	63	65	69	69	69	72	73	71	71	71	67.6	73
19-Feb	71	71	68	66	64	66	68	70	69	68	68	66	60	56	54	53	55	57	60	60	63	64	66	69	63.9	71
20-Feb	70	69	70	70	70	70	72	73	71	71	70	63	58	51	54	60	61	60	55	58	63	71	72	76	65.7	76
21-Feb	76	76	76	76	76	76	76	76	77	78	75	72	73	70	67	67	72	74	75	77	77	76	76	76	74.5	78
22-Feb	76	76	76	76	76	75	75	75	74	74	74	75	75	76	77	78	79	80	77	78	76	77	77	78	76.3	80
23-Feb	77	78	78	79	79	79	79	80	79	78	74	72	73	65	65	70	73	73	72	75	78	79	82	84	76.0	84
24-Feb	83	82	82	82	82	82	82	81	80	79	78	74	67	63	63	61	59	60	59	59	62	66	66	70	71.8	83
25-Feb	72	78	84	85	85	85	85	85	83	81	79	76	72	71	68	67	70	71	76	82	83	86	87	85	79.0	87
26-Feb	84	85	86	85	84	84	84	83	83	84	84	83	83	79	77	76	76	77	79	75	73	74	72	72	80.0	86
27-Feb	71	70	71	69	70	71	72	72	72	71	68	66	65	64	60	60	62	64	61	59	60	59	64	70	66.3	72
28-Feb	73	75	75	75	75	74	73	73	72	72	72	72	63	59	54	53	53	54	56	59	62	65	68	71	66.6	75
	76.7	77.0	77.2	76.7	76.9	77.1	77.6	77.9	77.3	76.8	75.4	74.0	72.0	70.0	69.0	69.1	69.5	70.0	71.4	72.5	73.4	74.3	74.7	76.0	Diurnal Average	
	95	94	92	90	92	90	89	89	88	90	91	90	91	91	92	91	92	95	94	93	95	97	95	94	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 75m (RH75) - %

Mannix - February 2026



Relative Humidity 75m (RH75) - %

Mannix - February 2026

Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	8	1.19	1.19
40 - 60	74	11.01	12.20
60 - 80	331	49.26	61.46
80 - 100	259	38.54	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 90m (RH90) - %

Mannix - February 2026

Maximum Value: 97 % on Feb 4 22:00

Maximum Daily Average: 89.2 % on Feb 3

Minimum Value: 35 % on Feb 13 19:00

Minimum Daily Average: 40.8 % on Feb 13

Maximum Diurnal Average: 78.4 % at hour 8

Minimum Diurnal Average: 69.5 % at hour 15

Monthly Average: 74.8 %

Percentiles: P_1 = 38 P_{10} = 59 Q_1 = 67 Median = 77 Q_3 = 86 P_{90} = 88 P_{99} = 95

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

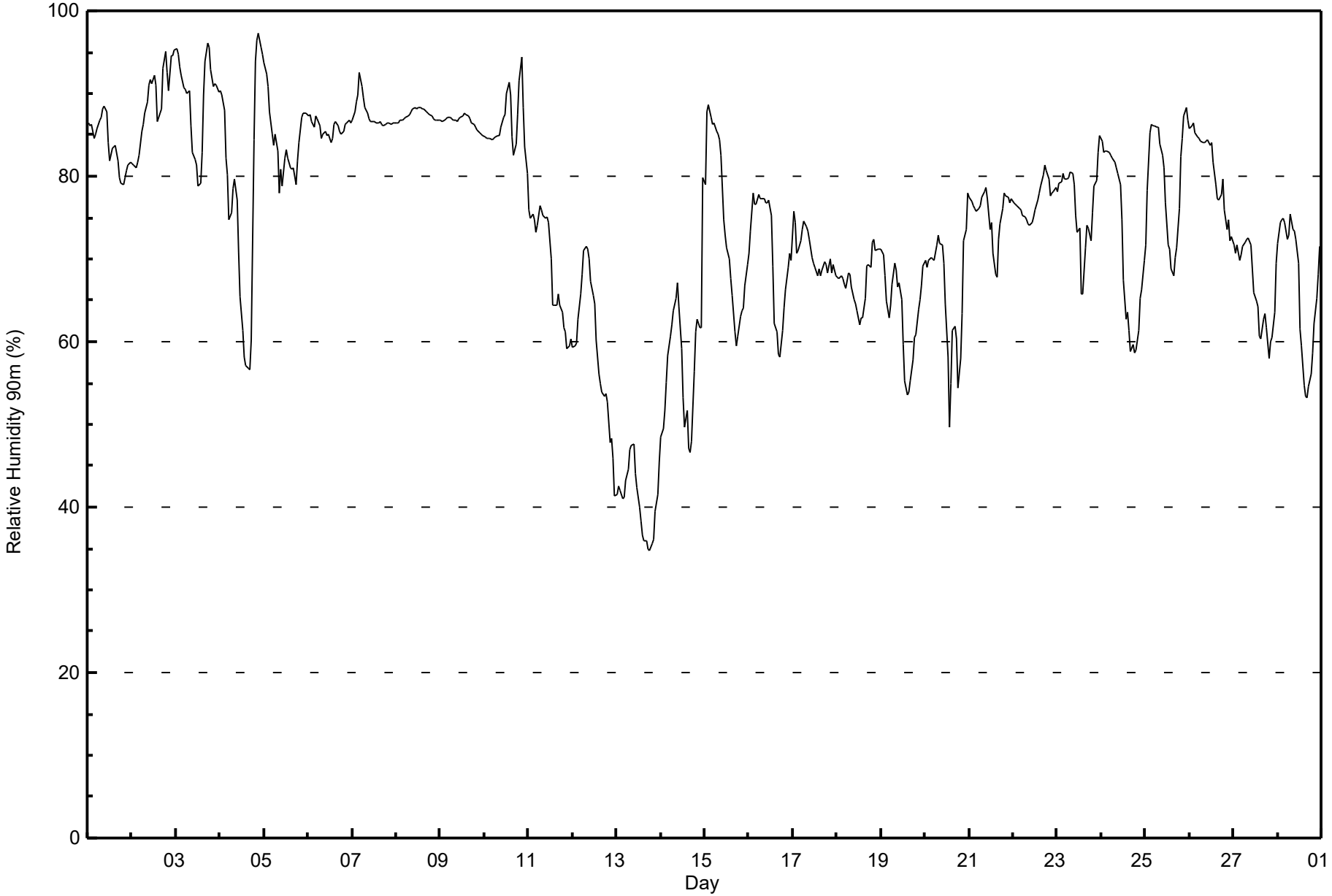
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	86	86	86	85	85	86	87	87	88	88	88	84	82	83	84	84	82	80	79	79	80	81	81	82	83.9	88
2-Feb	82	81	81	82	82	85	86	88	89	91	92	91	92	91	87	88	88	93	95	92	90	95	95	95	88.8	95
3-Feb	95	95	93	92	91	91	90	90	86	83	82	81	79	79	83	90	94	96	96	93	91	91	91	90	89.2	96
4-Feb	90	90	88	82	80	75	76	78	80	77	71	65	61	58	57	57	57	60	84	94	96	97	96	95	77.7	97
5-Feb	94	92	91	88	85	84	85	83	78	81	79	82	83	82	81	81	81	79	82	84	87	88	88	88	84.4	94
6-Feb	87	87	87	86	87	87	86	85	85	85	85	85	84	85	86	87	86	85	85	85	86	86	87	86	85.9	87
7-Feb	87	88	89	90	93	91	90	88	88	87	87	87	87	86	87	87	86	86	86	86	86	86	86	87	87.5	93
8-Feb	86	87	87	87	87	87	87	87	88	88	88	88	88	88	88	88	88	88	87	87	87	87	87	87	87.4	88
9-Feb	87	87	87	87	87	87	87	87	87	87	87	87	87	88	88	87	87	86	86	86	86	85	85	85	86.6	88
10-Feb	85	85	85	85	84	85	85	85	85	86	87	87	90	91	90	85	83	84	87	91	94	88	84	80	86.3	94
11-Feb	76	75	75	75	73	74	77	76	75	75	75	74	70	64	64	64	66	64	64	62	61	59	59	60	69.1	77
12-Feb	59	59	60	63	66	68	71	72	71	70	67	66	65	60	56	55	54	53	54	53	48	48	46	41	59.4	72
13-Feb	41	42	42	41	41	43	45	47	47	48	44	42	40	38	37	36	36	35	35	36	36	39	41	45	40.8	48
14-Feb	48	50	52	55	58	61	62	64	65	67	64	59	53	50	52	47	47	48	56	61	63	62	62	80	57.7	80
15-Feb	79	88	89	87	86	87	85	85	84	83	75	73	71	70	68	66	61	59	61	63	64	64	67	69	74.3	89
16-Feb	71	73	78	77	77	78	77	77	77	77	77	77	75	69	62	61	59	58	61	64	66	69	71	70	70.9	78
17-Feb	76	74	71	71	72	73	75	74	73	72	70	69	69	68	69	68	69	70	69	68	70	68	69	68	70.7	76
18-Feb	68	68	68	68	67	66	68	68	67	65	65	64	62	63	63	65	69	69	69	72	72	71	71	71	67.5	72
19-Feb	71	71	68	65	63	64	67	69	69	67	67	65	60	55	54	54	55	58	60	61	64	65	67	69	63.6	71
20-Feb	70	69	70	70	70	70	72	73	72	72	69	65	58	50	55	61	62	60	54	58	63	72	74	78	66.1	78
21-Feb	77	77	77	76	76	76	77	78	78	79	77	74	74	71	68	68	72	74	76	78	78	77	77	77	75.5	79
22-Feb	77	77	76	76	76	75	75	75	74	74	74	75	76	77	78	79	80	81	81	80	78	78	78	79	77.1	81
23-Feb	78	79	79	80	80	80	80	81	80	79	75	73	74	66	66	71	74	74	72	76	79	80	83	85	76.8	85
24-Feb	84	83	83	83	83	83	82	82	81	80	79	75	67	63	63	61	59	60	59	59	61	65	66	70	72.1	84
25-Feb	72	78	85	86	86	86	86	86	84	82	81	77	72	71	69	68	70	71	76	82	85	87	88	87	79.8	88
26-Feb	86	86	86	85	85	84	84	84	84	84	84	84	84	82	79	77	77	78	80	76	74	75	72	73	81.0	86
27-Feb	72	71	72	70	71	72	72	72	73	72	69	66	65	64	61	60	63	63	62	58	60	60	63	69	66.6	73
28-Feb	72	74	75	75	74	72	73	75	74	73	72	70	62	59	55	53	53	55	56	59	62	65	68	71	66.6	75
	77.0	77.6	77.8	77.3	77.3	77.5	78.0	78.4	77.9	77.6	76.1	74.5	72.5	70.4	69.5	69.6	69.9	70.3	71.9	73.0	73.8	74.7	75.1	76.3	Diurnal Average	
	95	95	93	92	93	91	90	90	89	91	92	91	92	91	90	90	94	96	96	94	96	97	96	95	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 90m (RH90) - %

Mannix - February 2026



Relative Humidity 90m (RH90) - %

Mannix - February 2026

Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	10	1.49	1.49
40 - 60	73	10.86	12.35
60 - 80	316	47.02	59.38
80 - 100	273	40.63	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 20m (WS20) - km/h

Mannix - February 2026

Maximum Speed: 34 km/h on Feb 17 17:00

Maximum Daily Speed Average: 27.9 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 14 18:00

Minimum Daily Speed Average: 3.1 km/h on Feb 14

Maximum Diurnal Speed Average: 3.8 km/h at hour 19

Minimum Diurnal Speed Average: 0.6 km/h at hour 7

Monthly Average Velocity: 1.6 km/h 96.0 deg

Percentiles: P_1 = 1 P_{10} = 4 Q_1 = 7 Median = 10 Q_3 = 14 P_{90} = 20 P_{99} = 33

Hours in Service:	672
Hours of Data:	467
Hours of Missing Data:	205
Percent Operational Time:	69.5

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ENE11	ENE10	E10	E7	SE11	SE10	SE9	SE12	SE16	SE15	SE17	SE17	SE16	SE16	SE19	SE19	SE18	SE18	SE19	SE19	SE18	SE17	SE16	SE16	SE14.1	SE19
2-Feb	SE16	SE17	SE14	SE13	SE13	SE12	SE13	SSE10	SSE10	SSE9	SSE9	SSE9	SSE10	SSE8	SSE7	SSE7	SSE5	S3	W1	WNW3	NNW6	N8	N8	NNE8	SE6.6	SE17
3-Feb	N6	NNE11	NNE13	NNE9	N5	NNE6	NNE7	NNE7	NNE8	NNE5	NE4	NNW3	NNE1	SE5	SSE8	SSE7	SSE7	SSE9	SE12	SE13	SE14	SE15	SE17	SE17	ESE3.9	SE17
4-Feb	SSE14	SE18	SSE18	UO	UO	UO	UO	UO	UO	UO	UO	WSW15	WSW15	W14	W14	WSW13	WSW13	WNW11	N20	N19	UO	UO	UO	UO	----	N20
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	N12	N11	N10	N9	NNW7	NNW6	NNW6	----	N12
8-Feb	NNW8	NNW6	NNW6	WNW7	NW8	NNW7	NW8	WNW8	NW6	NW6	NW8	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	NW8
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	N8	N8	N9	N9	NNW9	N11	N11	N13	N12	N12	N8	NNW8	NNW8	----	N13
10-Feb	NNW6	NNW6	NW7	NNW6	NW6	WNW5	W5	WNW4	W5	W4	W4	SW2	S4	SSE9	S9	SSE11	SSE9	SSE9	SSE10	SSE12	S8	SSE11	SE14	SSE14	S3.4	SSE14
11-Feb	SSE13	SSE12	SSE11	SSE14	SSE14	SSE11	SSE14	SSE14	SSE14	SSE17	SSE14	SSE15	SSE13	SSE10	S8	SSW9	S7	SSW9	S10	S11	SSE9	SSE10	SSE6	SSE11	SSE11.2	SSE17
12-Feb	SSE11	S10	SW10	WSW8	S5	SW5	SW3	SW4	S5	SSE12	SSE11	SSE12	SSE16	SSE14	S9	SSE13	S14	SSE15	S17	S15	S15	S14	SW17	SW18	S10.2	SW18
13-Feb	SW17	SW19	WSW21	WSW23	WSW25	WSW24	W21	WSW14	WSW18	WSW16	WSW21	WSW17	WSW18	SW12	WSW13	SW13	SW10	SSW9	SSW7	SW5	SSW10	W3	WSW5	SW5	WSW13.9	WSW25
14-Feb	SSE3	SSE9	SSE10	SSE12	SSE12	SSE11	SSE11	SSE9	SSE9	SSE6	SSE5	SSE6	ENE3	E4	ENE4	ENE3	ESE3	ENE0	NNW10	NNW6	WNW7	WNW3	WNW1	N12	SE3.1	SSE12
15-Feb	NNW3	N11	UO	UO	UO	N18	N13	N11	N13	NNE11	NNE13	NNE10	NNE9	NNE8	NNW7	NW6	NNW5	NNE9	UO	UO	NNE9	NNE10	NNE7	NNE8	N9.2	N18
16-Feb	N9	N5	NNW5	N7	N7	N4	N5	NNW4	N1	W2	NNE4	N5	NW8	NW10	NW11	NW13	N13	N19	N23	N23	NNE21	NNE23	NNE22	N24	N10.3	N24
17-Feb	N15	N20	N24	N18	N24	NNE26	NNE22	NNE25	NNE27	NNE29	N29	N30	N33	NNE31	NNE29	N32	N34	N34	NNE30	N34	NNE29	NNE33	NNE30	NNE33	N27.9	N34
18-Feb	UO	NNE33	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	NW6	NNW4	W3	SW7	----	NNE33
19-Feb	WSW9	UO	UO	UO	SSE10	SSE11	SSE13	SSE12	SSE11	SSE9	SE12	SE12	SE10	SE11	SE12	SSE13	SSE10	S10	SSE12	SSE12	SSE12	SSE14	SSE15	SSE14	SSE11.0	SSE15
20-Feb	SSE14	SSE12	SSE13	SSE14	SSE12	SSE10	SSE8	SSE7	SSE8	SSE8	SSE9	SSE7	SSE3	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	SSE14
21-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	N13	NNE16	NNE14	NNE15	NNE13	NNE16	NNE21	N21	NNE19	N22	N21	----	N22
22-Feb	N19	N12	N15	N14	N12	NNW12	NNW10	NNW8	NNW10	NNW8	NW9	NNW8	NW8	NW9	NW9	NW9	NW5	NW3	E11	ESE11	SE13	SE15	SE16	SE15	N4.6	NNE19
23-Feb	SE16	SE13	SE14	SE8	SSE8	SSE6	SSE4	S4	SW2	SSW4	SW4	SW2	NNW1	ESE2	ESE2	SSE4	SSE7	SSE7	S8	S7	SSE7	S7	SW4	NW5	SSE5.1	SE16
24-Feb	WNW2	SW1	SSE4	SSE6	SE6	SE5	SSE9	SSE9	SSE9	SSE7	SSE8	SSE8	SE7	ESE7	E7	E7	E7	E4	SE6	SSE12	SE12	SE12	SE13	SE13	SE6.9	SE13
25-Feb	SSE12	SE9	SE4	SSE5	SW2	N4	NW4	SSW1	SSE6	SSE5	SE7	SSE10	SE10	SE7	SSE6	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	SSE12
26-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	NNW21	----	NNW21
27-Feb	N22	NNE24	NNE23	NNE24	NNE23	NNE19	NNE17	NNE17	NNE12	NNE11	NNW10	NW11	NW9	NW8	NW7	NW6	NW7	UO	UO	UO	UO	UO	UO	UO	----	NNE24
28-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	SSE18	SSE19	SSE13	SSE10	SSE11	SSE10	SSE12	SSE16	SSE20	SSE18	----	SSE20
	ESE1.7	ENE3.1	E2.3	ENE1.1	SE1.0	NE1.2	ENE0.6	ESE0.8	SE1.5	SE1.8	SE1.4	SSE1.6	SSE1.0	E0.9	SE1.1	SSE1.3	ESE1.3	ENE1.9	ENE3.8	ENE3.6	E2.7	E3.4	ESE2.8	ENE2.4	Diurnal Average	
	N22	NNE33	N24	NNE24	WSW25	NNE26	NNE22	NNE25	NNE27	NNE29	N29	N30	N33	NNE31	NNE29	N32	N34	N34	NNE30	N34	NNE29	NNE33	NNE30	NNE33	Diurnal Maximum	

UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 21 km/h on Feb 17 08:00

Minimum Value: 1 km/h on Feb 24 02:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 2 Q_3 = 4 P_{90} = 5 P_{99} = 9

Hours in Service:	672
Hours of Data:	467
Hours of Missing Data:	205
Hours of Calibration:	0
Percent Operational Time:	69.5

Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Feb	2	2	2	3	3	2	2	3	4	4	5	5	4	4	5	5	4	5	5	5	5	4	4	4	5
2-Feb	4	4	4	3	3	2	3	2	2	2	2	2	2	2	2	2	1	1	1	1	2	2	3	3	4
3-Feb	3	3	3	4	2	2	2	2	2	1	1	1	1	2	2	2	2	2	4	3	4	3	4	4	4
4-Feb	3	4	4	UO	UO	UO	UO	UO	UO	UO	UO	4	4	3	3	2	3	4	6	5	UO	UO	UO	UO	6
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	3	2	3	3	2	1	2	3
8-Feb	2	2	2	2	2	2	2	2	2	2	2	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	2
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	2	3	2	2	3	3	3	4	4	3	3	2	2	4
10-Feb	2	2	2	2	1	2	2	2	2	2	2	1	2	3	3	2	2	2	2	2	2	2	3	2	3
11-Feb	2	2	2	2	2	3	2	1	2	2	2	3	3	2	3	2	2	1	1	1	1	1	2	1	3
12-Feb	2	2	2	3	2	2	3	3	2	3	2	2	5	4	3	3	3	3	4	5	4	3	4	4	5
13-Feb	3	3	4	4	5	5	5	3	3	5	4	4	4	3	3	3	2	1	2	2	1	2	1	1	5
14-Feb	2	2	2	1	1	2	1	4	3	2	2	2	1	2	1	1	1	3	2	2	2	2	3	4	4
15-Feb	3	4	UO	UO	UO	5	4	3	4	4	3	3	3	2	3	2	1	3	UO	UO	3	2	2	2	5
16-Feb	2	3	2	1	2	1	2	1	1	2	2	2	2	3	3	4	4	5	5	5	5	5	5	6	6
17-Feb	5	9	6	5	6	6	7	21	6	6	6	7	7	7	8	8	9	9	9	7	7	8	7	8	21
18-Feb	UO	9	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	2	1	1	1	9
19-Feb	1	UO	UO	UO	2	2	3	3	2	2	3	3	3	3	3	3	3	2	2	1	1	2	2	2	3
20-Feb	2	1	1	1	1	2	2	1	2	2	3	2	1	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	3
21-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	4	4	4	4	3	4	5	5	5	5	4	5
22-Feb	4	4	4	4	4	3	4	3	2	2	2	2	2	2	2	2	2	1	4	4	5	4	4	4	5
23-Feb	4	4	4	2	2	2	1	2	2	2	2	1	1	1	1	2	1	1	1	1	2	2	2	1	4
24-Feb	2	1	2	1	2	3	1	1	1	1	2	2	2	2	2	2	1	2	3	2	3	2	3	3	3
25-Feb	3	3	2	2	1	1	1	1	2	2	2	3	3	2	2	UO	UO	UO	UO	UO	UO	UO	UO	UO	3
26-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	7	7
27-Feb	7	6	6	5	5	5	5	4	4	4	3	3	3	3	3	2	2	UO	UO	UO	UO	UO	UO	UO	7
28-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	4	4	3	1	1	2	2	3	2	3	4
	7	9	6	5	6	6	7	21	6	6	6	7	7	7	8	8	9	9	9	7	7	8	7	8	
	Diurnal Maximum																								

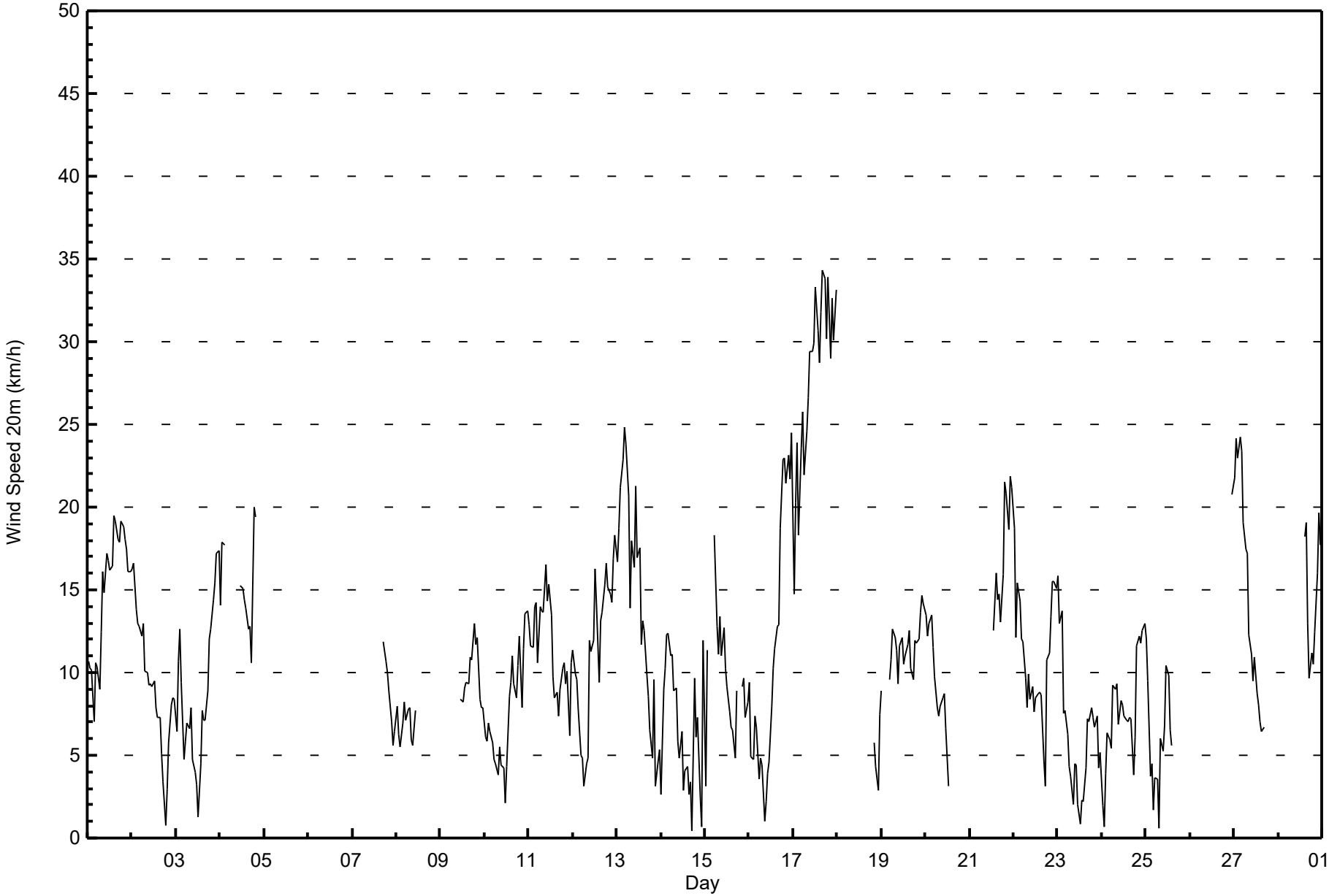
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 20m (WS20) - km/h

Mannix - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	77	16.49	16.49
6 - 11	196	41.97	58.46
12 - 19	147	31.48	89.94
20 - 28	31	6.64	96.57
29 - 38	16	3.43	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 467

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 20m (WS20) - km/h

Mannix - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	7	3	1	4	2	3	3	9	4	3	12	1	8	6	4	7	77
6 - 11	17	18	0	2	6	2	11	68	12	5	3	2	0	4	23	23	196
12 - 19	18	13	0	0	0	0	45	46	5	0	6	10	2	0	1	1	147
20 - 28	10	13	0	0	0	0	0	1	0	0	0	5	1	0	0	1	31
29 - 38	7	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	59	56	1	6	8	5	59	124	21	8	21	18	11	10	28	32	467

Total Number of Valid Hours: 467

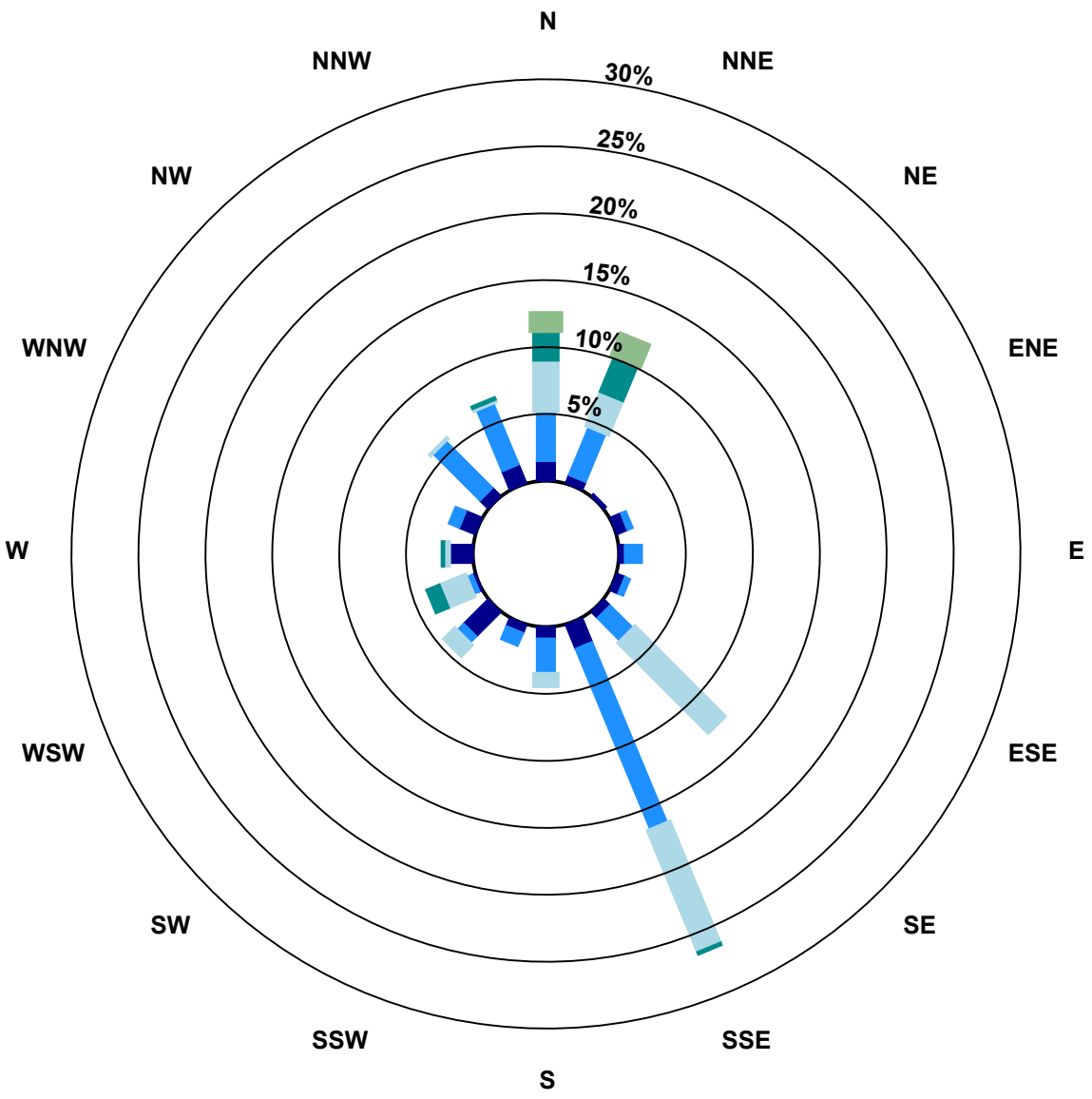
Total Number of Hours: 672

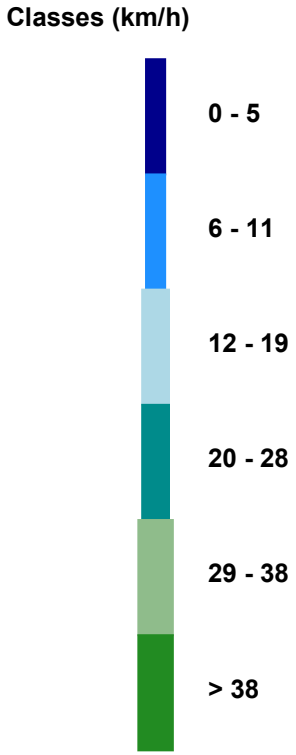
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 20m (WS20) - km/h

Mannix





Total Number of Valid Hours: 467

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 45m (WS45) - km/h

Mannix - February 2026

Maximum Speed: 44 km/h on Feb 17 17:00

Maximum Daily Speed Average: 35.7 km/h on Feb 17

Minimum Speed Value: 1 km/h on Feb 14 18:00

Minimum Daily Speed Average: 2.8 km/h on Feb 20

Maximum Diurnal Speed Average: 6.1 km/h at hour 20

Minimum Diurnal Speed Average: 1.0 km/h at hour 16

Monthly Average Velocity: 2.6 km/h 39.2 deg

Percentiles: P_1 = 2 P_{10} = 5 Q_1 = 9 Median = 16 Q_3 = 21 P_{90} = 29 P_{99} = 42

Hours in Service: 672

Hours of Data: 526

Hours of Missing Data: 146

Percent Operational Time: 78.3

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE12	ENE11	E12	E8	SE12	SE12	SE10	SE14	SE19	SE18	SE20	SE20	SE18	SE20	SE22	SE22	SE21	SE21	SE23	SE22	SE21	SE21	SE19	SE20	SE16.6	SE23
2-Feb	SE20	SE20	SE17	SE17	SE16	SE15	SE17	SE14	SE15	SSE13	SSE13	SSE11	SSE12	SSE9	SSE8	SSE9	SSE6	SSW5	W2	NW4	N9	N11	N11	NNE11	SE8.2	SE20
3-Feb	N9	N14	NNE16	NNE13	N6	NNE8	NNE8	NNE8	NNE9	NNE6	NNE4	NNW4	NE1	SE5	SSE9	SE9	SSE10	SSE12	SE16	SE17	SE20	SE21	SE24	SE24	ESE5.3	SE24
4-Feb	SSE19	SE24	SE24	SSE26	SSE23	S18	SW22	WSW21	WSW22	WSW22	WSW23	WSW19	WSW19	W18	W17	WSW18	WSW19	WNW14	N28	N25	N20	NNE22	NNE18	N18	WSW6.6	N28
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
11-Feb	UO	UO	SSE18	SSE17	S21	SSE20	SSE21	SSE24	SSE24	SSE25	SSE23	SSE22	SSE19	SSE13	S12	SSW14	S13	SSW15	S16	S17	S17	S15	S10	S13	SSE17.2	SSE25
12-Feb	SSE16	SSW17	SW16	WSW13	SW8	WSW11	WSW8	WSW8	SW7	SSE14	SSE15	SSE15	SSE19	SSE19	S16	SSE19	S21	SSE23	S25	S25	S25	S23	SW26	SW27	S15.0	SW27
13-Feb	SW25	SW26	WSW28	WSW30	WSW32	WSW31	WSW26	WSW19	WSW25	WSW21	WSW25	WSW19	WSW21	SW15	WSW16	SW16	SW14	SW14	SW12	WSW7	SW12	WSW6	W8	WSW7	WSW18.6	WSW32
14-Feb	SSE3	SSE11	S12	SSE16	SSE18	SSE19	SSE16	SSE16	S13	S9	SSE5	SSE6	NE2	ENE4	ENE4	ENE3	SE4	SSE1	N15	NNW10	NW9	NNW3	SE1	N16	SSE4.2	SSE19
15-Feb	N4	N14	NNE18	N19	N20	N23	N17	N15	N17	NNE13	NNE15	NNE12	NNE11	NNE8	NNW8	NW8	NNW6	NNE11	NNE14	NNE17	NNE14	NNE13	NNE9	NNE10	N12.8	N23
16-Feb	N12	N7	NNW6	N10	N10	N4	N6	NNW6	NNE3	NW1	N4	N5	NW9	NW11	NW14	NW16	N16	N25	N30	N30	N27	N30	N29	N34	N13.6	N34
17-Feb	N20	N27	N31	N26	N30	N34	N29	N29	N34	N37	N38	N39	N43	N39	N36	N41	N44	N43	N38	N42	N36	N40	N38	N43	N35.7	N44
18-Feb	N41	N42	N39	N37	N38	N40	N39	N38	N34	N36	N34	N32	N28	N28	N26	N18	NNW14	NNW13	NNW14	NW10	NW8	NNW7	NNW3	SW4	N25.2	N42
19-Feb	SW9	SW8	S9	S14	SSE17	SSE16	SSE16	SSE17	SSE16	SSE12	SE13	SE14	SE12	SE13	SE14	SE14	S14	S17	SSE19	SSE19	SSE19	SSE21	SSE22	SSE20	SSE14.3	SSE22
20-Feb	SSE21	SSE21	SSE21	SSE23	SSE22	SSE19	SSE18	SSE14	SSE16	SSE11	SSE11	SSE6	SSE5	NE2	NNW2	WNW7	NW11	N13	N24	N29	N24	N18	NNW20	N18	ESE2.8	N29
21-Feb	N18	N17	N11	N7	N9	N9	NNE11	NNE7	N10	N14	N13	NNW8	NW15	N16	NNE19	NNE18	NNE19	NNE16	NNE20	N27	N27	N24	N29	N26	N15.9	N29
22-Feb	N24	N16	N21	N19	N16	NNW15	N13	NNW11	NNW12	NNW10	NW11	NW9	NW10	NW9	NW10	NW10	NNW5	N4	E14	ESE14	SE15	SE19	SE19	SE18	N6.4	N24
23-Feb	SE19	SE16	SE17	SE9	SE10	SE8	SSE5	S6	SW2	SSW6	SSW5	SW2	NNW2	ESE2	ESE2	SE4	SSE7	SSE9	S12	S14	S13	SSW8	WSW6	NW9	SSE6.3	SE19
24-Feb	NW5	W2	S2	S5	S8	S5	SSW7	S9	S9	S8	SSE9	SE8	SE9	ESE8	E7	E7	E7	ESE4	SE9	SE17	SE18	SE17	SE17	SE17	SE7.5	SE18
25-Feb	SE16	SE12	SE6	SE5	SE1	NNE5	NNW4	ESE2	SSE9	SSE7	SE8	SSE11	SE11	SE7	SE6	ESE3	ESE4	NE2	NNW9	NNE16	N20	N24	N26	N22	ENE3.7	N26
26-Feb	N22	N24	N20	N19	NNW13	NNW11	N13	N12	N20	N19	N22	N30	N31	N37	N28	N27	N31	NNW36	NNW28	NNW38	NNW39	NNW32	NNW32	NNW27	N25.2	NNW39
27-Feb	N28	N31	NNE29	NNE31	N29	N24	N22	NNE22	NNE15	NNE13	NNW11	NW13	NW10	NW10	NW8	NW8	NW8	NW10	N12	NNE12	NNE13	NNE10	NNE6	NNE1	N14.3	N31
28-Feb	NW2	NW2	S2	SSE15	SSE21	SSE21	SSE24	SSE22	SE21	SSE20	SSE12	SE14	SSE19	SSE20	SSE22	SSE22	SSE16	SSE13	SSE17	SSE17	SSE22	SSE24	SSE27	SSE24	SSE17.2	SSE27
	NE4.0	NE4.2	NE3.5	ENE2.7	E1.7	ENE1.8	NE1.5	E1.3	E1.3	E1.0	NE1.3	NE1.4	NNE1.4	NE2.5	NNE1.8	N1.0	N1.3	N2.6	NNE5.2	NNE6.1	NE4.9	NE4.9	NNE4.2	NNE4.9	Diurnal Average	
	N41	N42	N39	N37	N38	N40	N39	N38	N34	N37	N38	N39	N43	N39	N36	N41	N44	N43	N38	N42	NNW39	N40	N38	N43	Diurnal Maximum	

UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 45m (WS45) - km/h

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 10 km/h on Feb 26 16:00

Minimum Value: 1 km/h on Feb 24 02:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 3 Q_3 = 4 P_{90} = 5 P_{99} = 8

Hours in Service:	672
Hours of Data:	526
Hours of Missing Data:	146
Hours of Calibration:	0
Percent Operational Time:	78.3

Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Feb	2	2	2	3	4	3	2	4	3	4	4	4	4	4	5	5	4	5	5	5	5	4	3	4	5
2-Feb	4	4	3	3	2	2	3	1	2	2	2	2	2	2	1	2	1	1	2	1	2	3	3	3	4
3-Feb	3	3	3	5	3	2	2	2	3	1	1	1	1	3	2	2	2	2	4	3	3	3	3	4	5
4-Feb	3	4	4	4	3	1	2	4	5	5	5	5	4	4	3	2	3	4	5	5	4	4	3	3	5
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
11-Feb	UO	UO	2	3	2	2	1	2	1	1	2	2	2	2	2	2	2	1	1	1	1	2	3	1	3
12-Feb	3	1	2	3	2	3	6	4	3	5	1	2	5	4	3	3	3	3	4	4	3	3	4	3	6
13-Feb	3	3	4	4	5	5	5	3	3	5	4	4	3	3	3	3	2	1	3	2	3	3	2	1	5
14-Feb	1	3	2	2	2	3	2	3	2	2	1	2	1	1	1	1	1	3	2	2	2	2	3	4	4
15-Feb	4	4	4	4	5	5	4	3	3	4	3	3	3	2	2	2	1	3	3	4	3	3	2	2	5
16-Feb	1	3	2	1	1	2	1	1	2	1	2	2	2	2	3	3	4	5	4	3	5	4	5	5	5
17-Feb	6	10	5	5	5	6	8	6	5	5	5	5	6	7	8	8	8	9	8	6	7	7	7	7	10
18-Feb	7	8	7	7	7	8	6	7	7	6	6	5	5	5	5	5	3	3	3	2	2	2	1	2	8
19-Feb	2	2	1	2	3	2	2	3	2	2	2	3	3	3	3	2	4	2	2	2	2	2	1	1	4
20-Feb	1	1	2	1	1	1	2	2	1	2	3	2	2	1	1	3	2	5	6	3	6	3	3	3	6
21-Feb	4	4	3	2	3	3	4	2	4	4	4	3	3	4	4	4	4	3	4	4	4	4	3	3	4
22-Feb	3	5	4	3	4	3	4	2	2	2	1	2	1	1	2	1	3	1	4	5	6	4	4	4	6
23-Feb	4	4	4	2	2	2	1	2	2	2	2	1	1	1	1	2	1	1	1	1	1	2	2	2	4
24-Feb	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	2	1	2	3	3	3	3
25-Feb	3	5	2	2	1	2	2	2	2	1	2	3	3	2	2	1	1	2	1	4	3	3	3	4	5
26-Feb	4	6	6	6	4	3	3	3	3	4	4	6	6	8	9	10	7	9	7	8	8	6	7	6	10
27-Feb	6	6	5	5	4	6	5	4	4	4	3	2	2	3	2	2	1	2	2	3	2	1	2	1	6
28-Feb	1	1	2	4	2	2	2	2	2	3	3	4	3	3	3	4	2	1	1	2	2	2	2	3	4
	7	10	7	7	7	8	8	7	7	6	6	6	6	8	9	10	8	9	8	8	8	7	7	7	
	Diurnal Maximum																								

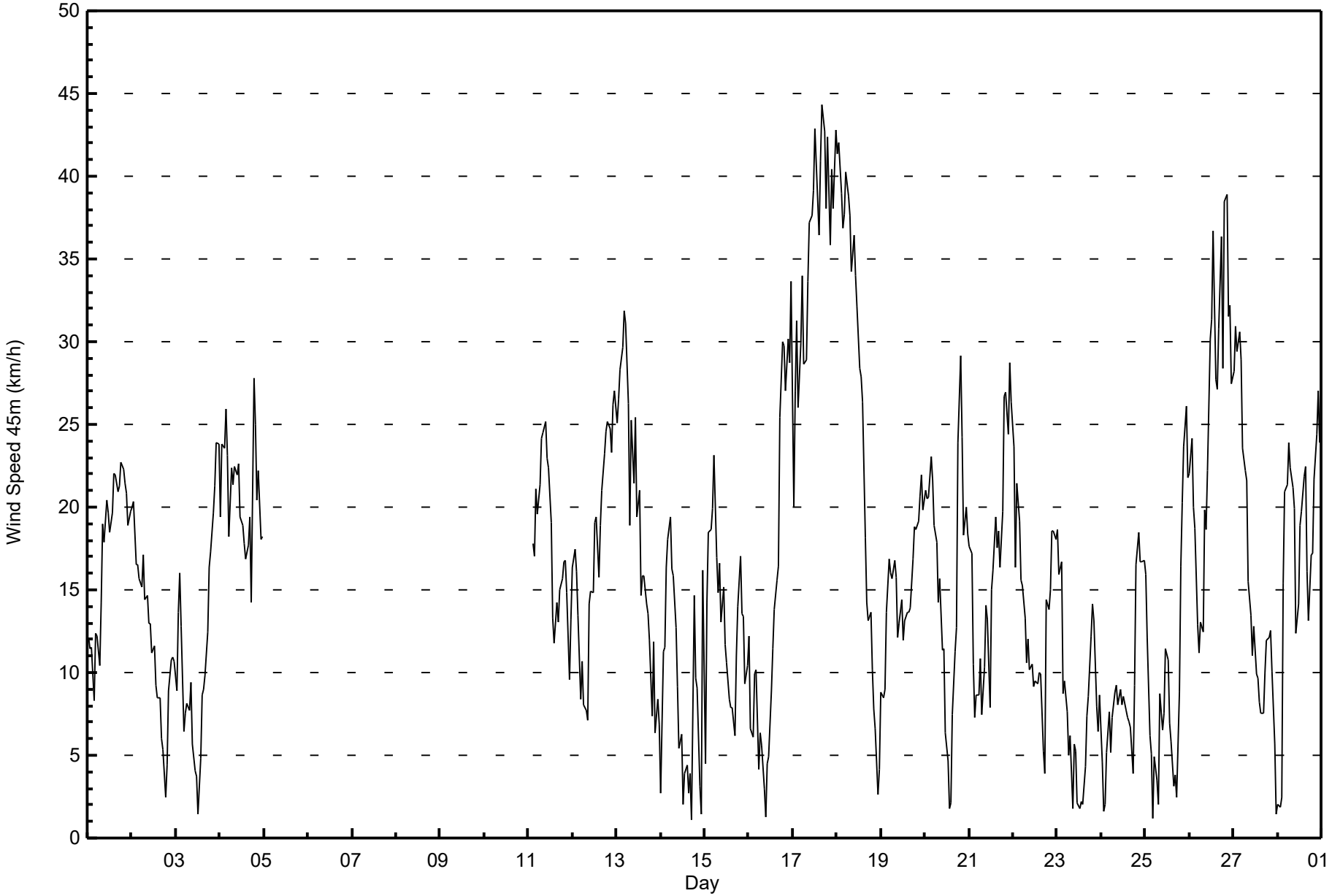
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 45m (WS45) - km/h

Mannix - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	56	10.65	10.65
6 - 11	122	23.19	33.84
12 - 19	179	34.03	67.87
20 - 28	113	21.48	89.35
29 - 38	41	7.79	97.15
> 38	15	2.85	100.00

Total Number of Valid Hours: 526

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 45m (WS45) - km/h

Mannix - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	5	4	4	3	0	6	6	5	4	2	3	0	2	0	5	7	56
6 - 11	14	15	0	1	4	1	13	18	8	3	4	7	1	1	20	12	122
12 - 19	29	20	1	0	2	1	37	43	15	4	6	8	2	1	4	6	179
20 - 28	34	4	0	0	0	0	21	31	5	0	5	10	0	0	0	3	113
29 - 38	31	3	0	0	0	0	0	0	0	0	0	3	0	0	0	4	41
> 38	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	15
Totals	127	46	5	4	6	8	77	97	32	9	18	28	5	2	29	33	526

Total Number of Valid Hours: 526

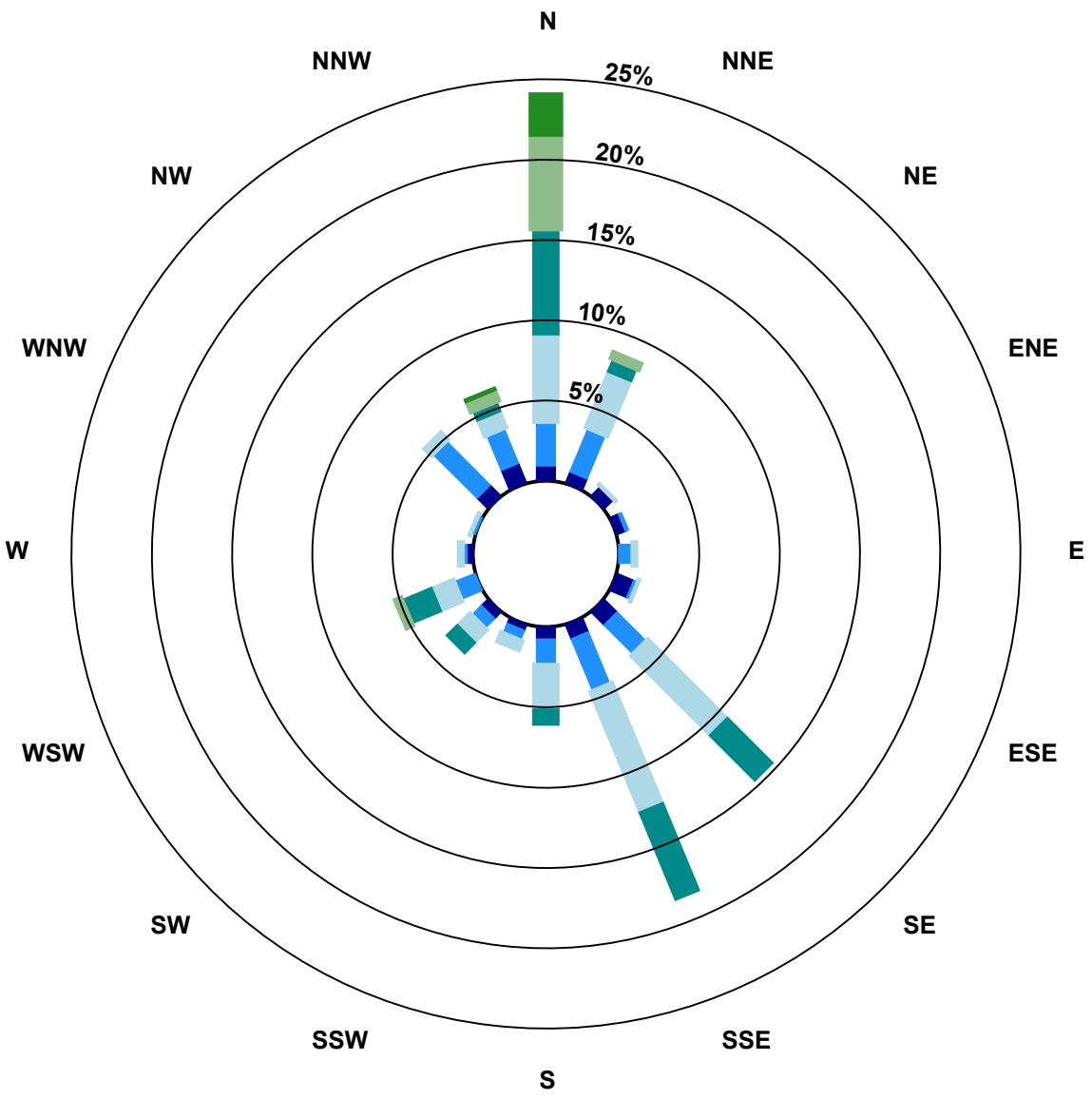
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 45m (WS45) - km/h

Mannix



Classes (km/h)

0 - 5

6 - 11

12 - 19

20 - 28

29 - 38

> 38

Total Number of Valid Hours: 526

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 75m (WS75) - km/h

Mannix - February 2026

Maximum Speed: 50 km/h on Feb 17 17:00

Maximum Daily Speed Average: 39.7 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 19 00:00

Minimum Daily Speed Average: 1.8 km/h on Feb 14

Maximum Diurnal Speed Average: 6.7 km/h at hour 20

Minimum Diurnal Speed Average: 1.2 km/h at hour 16

Monthly Average Velocity: 3.4 km/h 31.4 deg

Percentiles: P_1 = 1 P_{10} = 6 Q_1 = 10 Median = 17 Q_3 = 25 P_{90} = 33 P_{99} = 46

Hours in Service: 672

Hours of Data: 514

Hours of Missing Data: 158

Percent Operational Time: 76.5

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ENE13	ENE13	E12	E8	SE13	SE13	SE11	SE12	SE17	SE20	SE20	SE21	SE17	SE19	SE17	SE21	SE17	SE18	SE21	SE22	SE21	SE21	SE20	SE22	SE16.1	SE22
2-Feb	SE23	SE23	SE18	SE18	SE18	SE18	SE21	SSE19	SE20	SSE18	SSE17	SSE13	S13	SSE10	SSE9	SSE10	SSE5	WSW5	WNW5	NNW6	N11	NNE13	NNE13	NNE13	SE9.5	SE23
3-Feb	NNE10	NNE15	NNE19	NNE15	N7	NNE9	NNE9	NNE8	NE10	NNE6	NE4	NNW3	ENE2	SE4	SSE9	SSE12	SSE12	SSE16	SE21	SSE23	SE25	SSE27	SSE30	SSE30	ESE7.3	SSE30
4-Feb	SSE25	UO	UO	SSE33	S27	SSW21	WSW28	WSW27	WSW27	WSW27	W26	WSW23	WSW21	W19	W18	WSW20	WSW23	WNW17	NNE32	NNE27	NNE23	NNE25	NNE20	UO	W10.5	SSE33
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
11-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	SSE20	S18	SSW16	SSW14	SSW16	SSW16	SSW17	SSW17	SSW18	SSW17	SW14	SW11	SSW10	----	SSE20
12-Feb	SSW15	SW19	WSW20	W17	WSW13	W16	W13	WSW11	WSW10	S12	S17	SSE17	SSE21	S23	SSW19	S23	S26	S28	S32	S34	SSW32	SSW28	SW33	SW33	SSW18.3	S34
13-Feb	SW31	SW32	WSW34	WSW35	WSW37	WSW36	W30	WSW22	WSW30	WSW25	WSW28	WSW20	WSW23	WSW16	WSW17	SW17	SW16	SW15	SW12	WSW9	WSW14	W9	W14	W13	WSW21.8	WSW37
14-Feb	S3	SSW6	SSW8	S11	S11	S12	S11	S9	SW9	SW6	S2	SSE7	SE1	E3	E4	ESE2	SE5	SSW4	N16	N12	N7	NNE2	W1	NNE19	S1.8	NNE19
15-Feb	NNE7	N16	NNE21	N21	NNE22	NNE25	NNE19	N17	NNE19	NNE14	NNE16	NNE13	NNE11	NNE9	NNW8	NNW8	N6	NNE13	NNE19	NNE23	NNE20	NNE19	NNE13	NNE12	NNE15.1	NNE25
16-Feb	NNE13	NNE9	N6	N8	N10	NNE5	NNE9	NNE5	NE5	N4	N5	NNE5	NW8	NW11	NNW14	NNW16	N18	NNE28	NNE33	NNE33	NNE30	NNE34	NNE33	NNE38	N15.3	NNE38
17-Feb	N23	N31	NNE35	NNE29	NNE33	NNE39	NNE33	NNE33	NNE37	NNE41	NNE42	NNE43	NNE48	NNE43	NNE41	NNE46	NNE50	NNE46	NNE43	NNE47	NNE39	NNE44	NNE42	NNE47	NNE39.7	NNE50
18-Feb	NNE45	NNE46	NNE43	NNE42	NNE42	NNE45	NNE43	NNE42	NNE38	NNE40	NNE38	NNE35	NNE31	NNE30	NNE29	NNE20	N16	N15	NNW15	NNW11	NNW9	N8	NNE4	SSW0	NNE28.3	NNE46
19-Feb	SSW7	SSW9	SSW10	S11	S18	S19	S18	SSE22	S20	S16	SSE14	SSE16	SSE13	SE13	SE15	SSE15	S16	S21	S22	S25	S25	S28	S25	SSW20	S16.6	S28
20-Feb	S15	S14	S14	S20	S16	S14	SSE23	SSE21	SSE19	SSE17	SSE17	S8	SSE6	ENE1	NNE3	NW7	NNW12	N16	NNE29	NNE33	N28	N22	N24	N22	E2.2	NNE33
21-Feb	N20	N20	N13	N10	N12	NNE13	NNE16	NNE13	N14	N17	NNE15	N9	NNW15	N18	NNE21	NNE20	NNE21	NNE19	NNE23	NNE30	NNE30	NNE28	NNE31	NNE28	NNE18.7	NNE31
22-Feb	NNE26	N19	NNE23	N22	N18	N17	N15	N12	NNW13	N11	NNW10	NNW9	NNW8	NNW8	NW9	NNW9	N7	ENE7	ESE12	ESE11	SE12	SE15	SE16	SE16	NNE7.9	NNE26
23-Feb	SE17	SE17	SE18	SE9	SSE11	SSE9	SSE5	S6	S1	S6	SW6	WSW2	NNW2	E2	E2	SE4	S8	S9	S12	S15	SSW12	WSW8	W9	NW11	SSE5.9	SE18
24-Feb	NNW9	WNW4	WSW5	SW9	SW7	WSW6	SW9	SW8	SW8	SSW7	S8	SSE8	SE9	SE7	ESE6	ESE5	ESE5	SE4	SSE11	SSE17	SE22	SE22	SE15	SE19	SSE6.5	SE22
25-Feb	SE16	SE10	SE7	SE5	ENE2	NE6	NE2	ESE3	SSE11	SSE7	SSE8	SSE12	SE11	SE7	SE6	SE3	ESE3	ENE3	N9	NNE20	NNE23	NNE26	N27	N25	ENE4.7	N27
26-Feb	NNE25	NNE28	N23	NNE22	N15	N13	N15	N15	N22	N22	N27	N35	N35	NNE42	N31	N31	N35	N42	N32	N45	N45	NNW37	N37	N32	N29.0	N45
27-Feb	N32	NNE35	NNE33	NNE35	NNE32	NNE26	NNE25	NNE26	NNE18	NNE15	N11	NNW13	NW10	NW10	NNW8	NW7	NNW7	NW10	NNE13	NNE16	NE16	NNE11	NE7	ENE3	NNE16.2	NNE35
28-Feb	W1	W1	SSW2	SSE10	SSE19	SSE25	SSE32	SSE31	SSE29	SSE26	SSE13	SE18	SSE25	SSE25	SSE25	SSE24	SSE19	SSE17	SSE21	SSE24	S27	S29	S32	S29	SSE20.6	S32
	NE5.1	NNE6.4	NNE6.1	NNE3.7	NNE2.0	NNE2.8	NNE2.1	NE1.9	NE1.5	NNE1.3	NNE2.0	ENE1.9	NE1.5	NE2.6	NNE2.2	NNE1.2	NNE1.7	NNE2.8	NE5.9	NE6.7	NE5.5	NE5.4	NNE4.8	NNE5.0	Diurnal Average	
	NNE45	NNE46	NNE43	NNE42	NNE42	NNE45	NNE43	NNE42	NNE38	NNE41	NNE42	NNE43	NNE48	NNE43	NNE41	NNE46	NNE50	NNE46	NNE43	NNE47	N45	NNE44	NNE42	NNE47	Diurnal Maximum	

UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 75m (WS75) - km/h

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 12 km/h on Feb 26 16:00

Minimum Value: 0 km/h on Feb 28 01:00

Percentiles: $P_1 = 1$ $P_{10} = 1$ $Q_1 = 2$ Median = 3 $Q_3 = 4$ $P_{90} = 6$ $P_{99} = 8$

Hours in Service:	672
Hours of Data:	514
Hours of Missing Data:	158
Hours of Calibration:	0
Percent Operational Time:	76.5

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	2	2	3	3	3	3	4	5	5	6	5	5	5	7	6	6	7	7	6	6	6	5	4	7
2-Feb	4	4	4	3	2	2	2	1	1	2	1	2	2	2	2	2	2	1	3	1	2	3	3	3	4
3-Feb	3	3	3	5	3	2	3	2	3	1	1	1	1	2	2	2	2	2	4	3	2	2	3	3	5
4-Feb	3	UO	UO	3	3	2	2	4	5	4	4	5	4	4	3	3	3	4	4	5	3	3	2	UO	5
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
11-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	2	2	2	2	2	1	1	2	1	1	2	4	1	4
12-Feb	2	1	2	3	3	3	7	5	4	5	1	1	4	4	3	3	3	3	4	4	4	2	4	3	7
13-Feb	3	3	5	4	5	5	5	4	3	4	4	4	3	3	2	2	2	1	3	2	3	2	3	3	5
14-Feb	2	2	2	1	2	3	2	2	3	2	1	2	1	1	1	1	2	2	3	4	2	2	2	4	4
15-Feb	5	4	4	4	5	5	4	3	3	4	3	3	3	2	2	2	2	3	4	4	3	3	3	2	5
16-Feb	1	3	2	1	1	2	2	1	2	2	2	2	2	2	2	3	4	5	3	3	4	3	4	3	5
17-Feb	7	10	5	5	5	4	8	6	4	4	4	4	5	6	7	7	8	10	8	6	6	7	6	6	10
18-Feb	7	7	7	7	7	7	6	6	6	5	6	4	4	4	5	5	3	3	4	2	2	3	1	1	7
19-Feb	2	1	1	3	1	1	2	2	2	1	3	3	3	3	3	2	4	1	2	1	1	1	2	3	4
20-Feb	1	1	3	1	3	3	1	1	1	1	3	2	2	1	1	3	1	5	6	3	5	2	2	2	6
21-Feb	4	4	4	2	4	3	4	3	3	4	4	2	3	4	4	4	3	3	3	4	4	3	3	3	4
22-Feb	2	5	3	3	4	3	4	2	2	2	1	2	1	2	1	1	2	3	3	4	5	5	5	5	5
23-Feb	5	5	4	3	2	2	2	2	1	1	3	1	1	1	1	2	1	2	1	1	2	1	3	2	5
24-Feb	1	1	2	1	1	2	1	1	1	1	1	2	2	3	2	2	2	2	2	2	2	3	4	4	4
25-Feb	5	4	3	2	1	2	2	2	2	2	2	3	4	2	3	2	1	2	2	4	3	2	2	3	5
26-Feb	3	5	6	6	5	3	3	3	2	3	4	6	5	8	9	12	7	8	7	8	8	6	7	6	12
27-Feb	6	6	4	4	4	5	5	4	4	3	3	2	2	2	3	2	1	2	3	2	2	1	2	2	6
28-Feb	0	0	1	3	3	3	2	1	3	3	3	6	3	3	3	3	2	1	2	1	2	1	1	3	6
	7	10	7	7	7	7	8	6	6	5	6	6	5	8	9	12	8	10	8	8	8	7	7	6	
	Diurnal Maximum																								

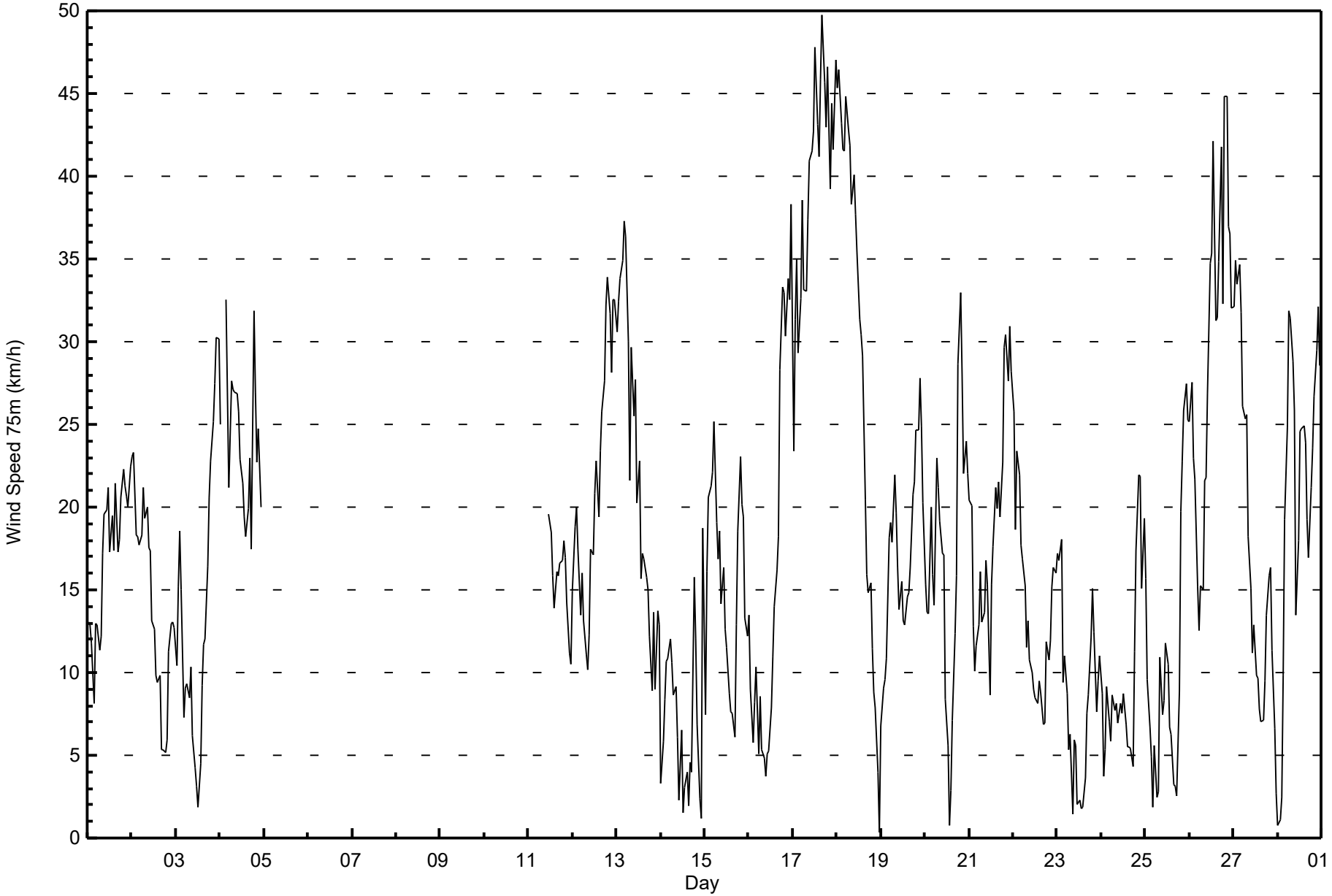
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 75m (WS75) - km/h

Mannix - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	50	9.73	9.73
6 - 11	111	21.60	31.32
12 - 19	154	29.96	61.28
20 - 28	109	21.21	82.49
29 - 38	61	11.87	94.36
> 38	29	5.64	100.00

Total Number of Valid Hours: 514

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 75m (WS75) - km/h

Mannix - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	2	6	3	5	4	5	7	2	3	3	0	3	3	2	0	2	50
6 - 11	14	12	2	1	1	2	9	15	10	7	9	5	2	0	9	13	111
12 - 19	22	27	1	2	1	1	26	22	16	11	6	4	7	1	0	7	154
20 - 28	14	29	0	0	0	0	18	16	14	3	0	14	1	0	0	0	109
29 - 38	10	28	0	0	0	0	0	6	5	1	4	5	1	0	0	1	61
> 38	3	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Totals	65	128	6	8	6	8	60	61	48	25	19	31	14	3	9	23	514

Total Number of Valid Hours: 514

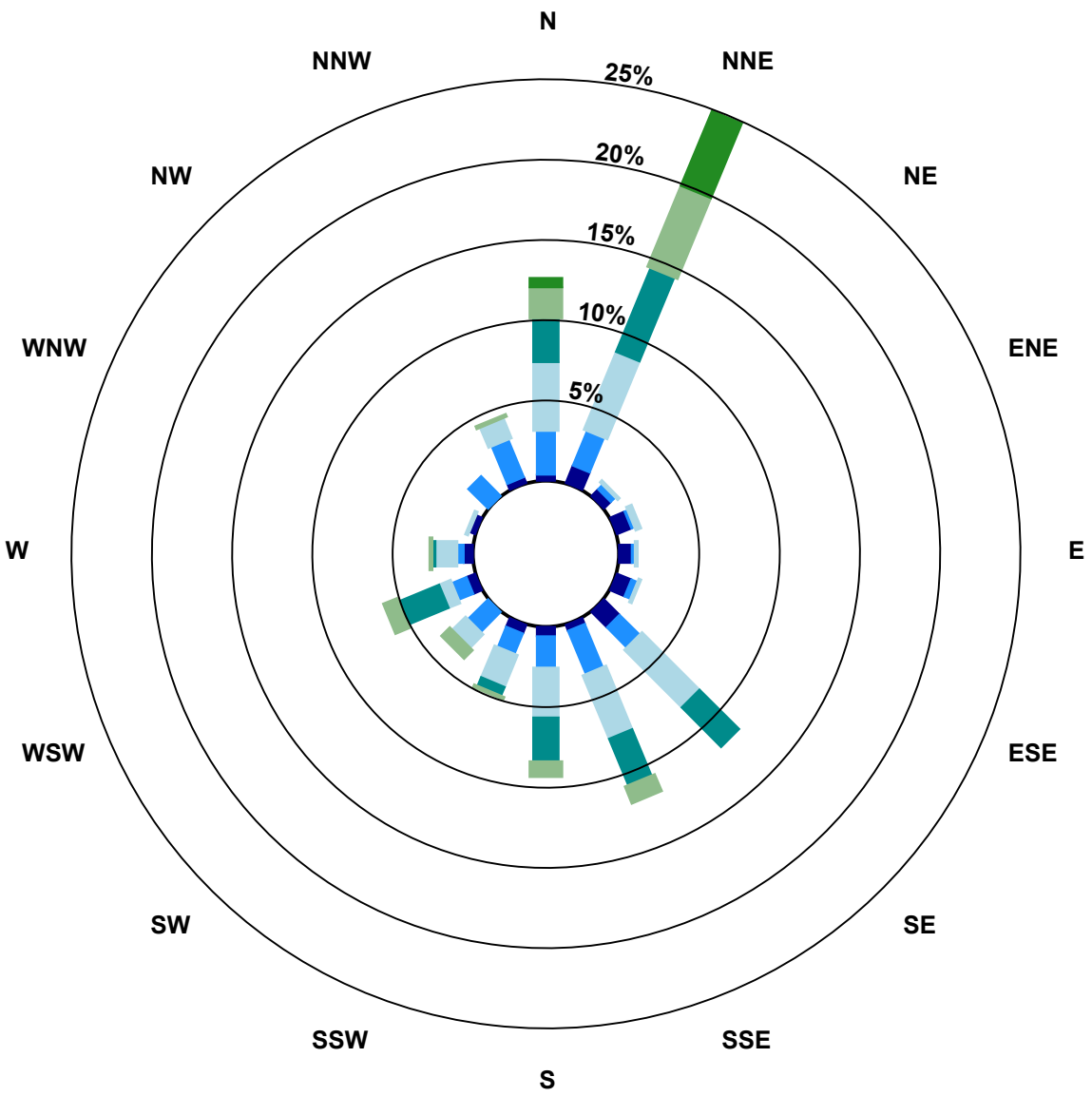
Total Number of Hours: 672

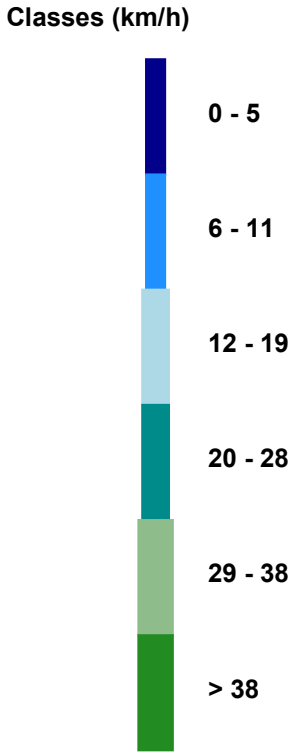
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 75m (WS75) - km/h

Mannix





Total Number of Valid Hours: 514

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 90m (WS90) - km/h

Mannix - February 2026

Maximum Speed: 51 km/h on Feb 17 17:00

Maximum Daily Speed Average: 40.9 km/h on Feb 17

Minimum Speed Value: 1 km/h on Feb 20 14:00

Minimum Daily Speed Average: 1.7 km/h on Feb 20

Maximum Diurnal Speed Average: 6.6 km/h at hour 20

Minimum Diurnal Speed Average: 1.2 km/h at hour 16

Monthly Average Velocity: 3.4 km/h 19.2 deg

Percentiles: $P_1 = 2$ $P_{10} = 6$ $Q_1 = 10$ Median = 17 $Q_3 = 25$ $P_{90} = 35$ $P_{99} = 48$

Hours in Service:	672
Hours of Data:	513
Hours of Missing Data:	159
Percent Operational Time:	76.3

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ENE13	ENE13	E12	E9	SE13	SE13	SE12	SE13	SE19	SE21	SE22	SE22	SE19	SE21	SE20	SE23	SE20	SE22	SE24	SE24	SE23	SE23	SE22	SE24	SE17.6	SE24
2-Feb	SE24	SE24	SE20	SE20	SE18	SE19	SE22	SSE20	SE21	SSE19	SSE19	SSE14	S13	SSE10	SSE10	SSE10	S5	WSW6	WNW7	NNW7	N12	NNE14	NNE14	NNE13	SE9.6	SE24
3-Feb	N11	NNE16	NNE19	NNE16	N8	NNE9	NNE10	NNE9	NNE11	NNE6	NE4	NNW3	ENE2	SE5	SSE10	SSE12	SE13	SSE18	SE22	SSE24	SE26	SSE29	SSE32	SE32	ESE7.6	SSE32
4-Feb	SSE27	SE31	SSE31	SSE35	S28	SW22	WSW30	WSW30	WSW29	WSW29	W28	WSW24	WSW23	W20	W19	WSW21	WSW25	WNW20	NNE32	NNE27	N23	NNE26	UO	UO	WSW11.3	SSE35
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
11-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	SSW16	SSW15	SW16	SSW16	SW17	SSW17	SSW18	SSW17	SW15	WSW13	SW11	----	SSW18
12-Feb	SW15	SW20	WSW22	W19	WSW16	W19	W16	WSW13	WSW12	S11	S15	SSE16	SSE21	S24	SSW20	S25	S27	S27	S35	S37	SSW33	SSW29	SW35	SW35	SSW19.4	S37
13-Feb	SW33	SW35	WSW37	WSW37	WSW40	WSW39	W32	W23	WSW32	WSW27	WSW29	WSW21	WSW23	WSW16	WSW18	WSW17	WSW17	SW16	SW13	WSW10	WSW15	W10	W15	W15	WSW23.3	WSW40
14-Feb	SSW4	SSW6	SW9	SSW10	SSW10	S9	SSW9	SSW7	SW10	WSW7	SSW2	SSE6	SSE3	ESE3	E4	SE2	SE5	SW5	N14	N12	N6	NW2	W4	N20	SW2.0	N20
15-Feb	NNE9	N17	NNE21	N22	NNE23	NNE25	N20	N18	NNE19	NNE14	NNE16	NNE13	NNE11	NNE9	NNW8	NNW8	N6	NNE14	NNE21	NNE25	NNE23	NNE22	NNE15	NNE13	NNE16.0	NNE25
16-Feb	NNE14	NNE10	N6	N7	N10	NNE6	NNE9	NNE6	NE6	NNE4	N6	NNE5	NW8	NW11	NNW14	NNW17	N19	NNE29	NNE34	NNE33	NNE31	N35	N33	N40	N15.8	N40
17-Feb	N25	N33	NNE36	NNE30	NNE33	N40	NNE34	NNE34	NNE38	NNE42	N42	N43	N49	NNE44	NNE43	N48	NNE51	NNE48	NNE44	NNE48	NNE40	NNE46	NNE42	NNE48	NNE40.9	NNE51
18-Feb	NNE46	NNE47	NNE44	NNE43	NNE42	NNE46	NNE44	N43	N39	N41	N39	N36	NNE32	NNE31	NNE30	N21	NNW17	NNW16	NNW16	NNW13	NNW10	N8	NNE4	ENE1	N29.1	NNE47
19-Feb	SSW6	SSW9	SSW10	SSW10	S16	S13	S12	SSE18	S17	S14	SSE14	SSE16	SSE14	SE14	SSE15	SSE15	S17	SSW21	S21	S24	S24	S26	S24	SSW18	S15.5	S26
20-Feb	SSW15	SSW12	S10	S15	S11	S10	SSE21	S20	SSE17	S19	SSE16	SSE10	SSE6	SSE1	NNE3	NW7	NNW14	N17	N30	NNE34	N29	N23	N26	N23	NE1.7	NNE34
21-Feb	N21	N21	N14	N12	N14	NNE15	NNE20	NNE17	N16	N18	NNE16	N9	NNW16	N18	NNE21	NNE21	NNE22	NNE20	NNE23	NNE30	NNE31	NNE28	N31	NNE28	NNE19.8	NNE31
22-Feb	NNE26	N19	N24	N23	N19	N18	N16	N12	NNW14	N11	NNW10	NNW9	NNW8	N8	NW9	NNW8	NNE8	E10	ESE18	ESE14	SE15	SE18	SE18	SE18	NNE8.3	NNE26
23-Feb	SE19	SE18	SE19	SE10	SSE12	SSE9	SSE5	S6	SSE2	S6	SW6	WSW3	NNW2	E1	E2	SE4	S7	S8	S12	S14	SSW11	WSW9	W12	NW12	S5.7	SE19
24-Feb	NW10	WNW7	WSW9	WSW12	WSW8	W9	WSW11	SW8	SW8	SSW7	S8	SSE7	SE9	SE8	ESE7	ESE7	ESE7	SE7	SSE12	SSE18	SE24	SE24	SE18	SE20	SSE6.4	SE24
25-Feb	SE17	SE13	SE7	SE6	E3	NE5	ENE2	SE4	SSE11	SSE8	SSE8	SSE12	SE11	SE7	SE7	SE4	ESE4	E3	N9	NNE21	NNE23	N26	N28	N26	ENE5.0	N28
26-Feb	N25	N28	N24	N22	N17	N13	N16	N17	N22	N23	N29	N36	N37	N44	N33	N33	N37	N45	N34	N48	N48	NNW40	N39	N34	N30.6	NNW48
27-Feb	N34	NNE36	NNE34	NNE35	NNE32	NNE27	NNE26	NNE27	NNE19	NNE16	N12	NNW13	NW10	NW10	NNW8	NW7	NNW7	NW9	N14	NNE16	NE16	NE11	NE7	NE3	N16.7	NNE36
28-Feb	WSW1	SW2	SSW4	SSE9	S16	SSE22	S31	S28	SSE29	S25	S13	SE21	SSE27	SSE27	SSE25	SSE24	SSE20	SSE18	SSE21	S24	S26	S30	S31	S29	SSE20.5	S31
	NNE5.2	NNE5.4	NNE4.9	NNE3.9	N2.9	N3.8	N2.9	N2.3	N1.8	N1.4	N2.2	NNE2.2	NNE2.2	NE2.3	NNE2.1	NNE1.2	NNE1.8	NNE2.9	NE5.8	NNE6.6	NNE5.5	NNE5.4	NNE4.3	NNE5.2	Diurnal Average	
	NNE46	NNE47	NNE44	NNE43	NNE42	NNE46	NNE44	NNE43	NNE39	NNE42	N42	N43	N49	NNE44	NNE43	NNE48	NNE51	NNE48	NNE44	NNE48	NNW48	NNE46	NNE42	NNE48	Diurnal Maximum	

UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 90m (WS90) - km/h

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 12 km/h on Feb 26 16:00

Minimum Value: 1 km/h on Feb 28 01:00

Percentiles: $P_1 = 1$ $P_{10} = 1$ $Q_1 = 2$ Median = 3 $Q_3 = 4$ $P_{90} = 5$ $P_{99} = 8$

Hours in Service:	672
Hours of Data:	513
Hours of Missing Data:	159
Hours of Calibration:	0
Percent Operational Time:	76.3

Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Feb	2	2	2	3	2	2	3	4	4	4	4	4	4	4	5	5	4	5	5	5	5	4	3	3	5
2-Feb	3	3	3	1	1	2	2	1	1	1	1	2	2	2	1	2	1	2	3	1	2	3	3	3	3
3-Feb	3	4	3	5	3	2	3	2	3	2	2	1	1	2	2	2	1	2	4	2	1	2	2	2	5
4-Feb	3	3	3	3	4	2	3	4	5	4	4	5	3	4	3	3	3	4	3	5	3	2	UO	UO	5
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
11-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	2	2	2	1	1	2	1	1	2	4	1	4
12-Feb	2	2	2	3	3	3	7	5	5	4	2	1	4	3	3	3	2	3	4	4	4	2	4	3	7
13-Feb	3	3	5	4	5	5	5	4	3	4	4	4	3	3	2	2	2	1	3	2	3	3	3	3	5
14-Feb	3	2	3	1	2	2	2	2	3	2	1	2	2	2	1	1	1	2	2	3	2	1	3	4	4
15-Feb	5	4	4	4	4	5	3	3	2	4	3	3	3	2	2	2	2	3	4	3	3	3	3	2	5
16-Feb	1	4	2	2	1	2	1	1	1	1	2	2	2	2	2	3	4	5	3	3	4	3	4	3	5
17-Feb	7	11	4	5	5	4	8	5	4	3	3	3	5	6	7	7	7	10	8	6	6	7	6	6	11
18-Feb	7	7	7	6	7	7	6	6	5	5	6	4	4	4	5	5	3	3	4	2	2	3	1	1	7
19-Feb	2	1	1	2	2	2	2	2	3	1	2	3	2	2	2	2	4	1	1	1	1	1	2	3	4
20-Feb	1	1	3	2	3	3	1	1	1	2	2	2	2	1	2	3	1	5	6	3	4	2	2	2	6
21-Feb	3	3	3	3	4	3	4	3	3	4	4	3	3	4	4	4	3	3	3	4	3	2	3	3	4
22-Feb	2	5	2	3	4	3	4	2	2	2	1	2	1	2	1	1	2	4	3	4	5	4	4	4	5
23-Feb	4	4	3	3	2	2	2	2	1	1	3	1	1	1	1	1	1	2	1	2	3	2	3	2	4
24-Feb	1	1	3	1	1	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	2	4	4	4
25-Feb	4	4	2	1	1	2	2	2	3	2	2	2	3	2	3	1	1	1	2	4	2	2	2	2	4
26-Feb	3	4	6	5	4	3	3	4	2	3	3	6	5	7	9	12	7	8	7	8	8	6	7	6	12
27-Feb	6	6	4	4	5	5	5	4	5	3	3	2	2	2	3	2	1	2	2	1	2	1	1	2	6
28-Feb	1	1	1	2	3	2	2	2	1	5	2	4	2	3	2	2	2	1	1	1	2	1	2	3	5
	7	11	7	6	7	7	8	6	5	5	6	6	5	7	9	12	7	10	8	8	8	7	7	6	
	Diurnal Maximum																								

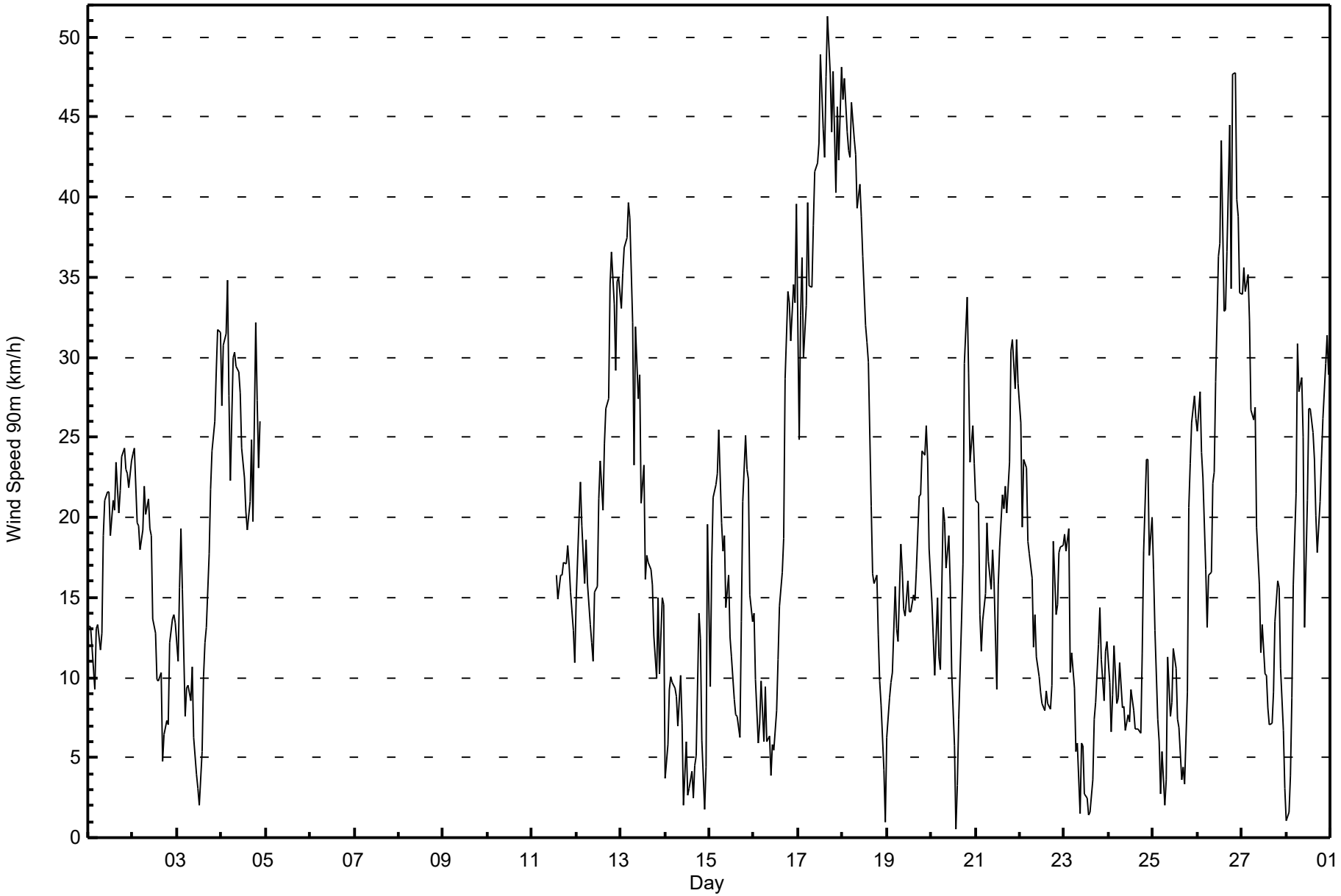
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 90m (WS90) - km/h

Mannix - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	39	7.60	7.60
6 - 11	113	22.03	29.63
12 - 19	147	28.65	58.28
20 - 28	113	22.03	80.31
29 - 38	65	12.67	92.98
> 38	36	7.02	100.00

Total Number of Valid Hours: 513

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 90m (WS90) - km/h

Mannix - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	0	4	3	3	5	2	6	4	1	3	2	2	1	0	1	2	39
6 - 11	12	14	3	0	2	3	9	13	9	12	6	7	2	2	9	10	113
12 - 19	23	21	1	2	1	2	21	20	13	9	6	10	7	0	1	10	147
20 - 28	22	23	0	0	0	0	25	12	15	2	2	9	2	1	0	0	113
29 - 38	16	21	0	0	0	0	2	5	6	2	4	8	1	0	0	0	65
> 38	11	21	0	0	0	0	0	0	0	0	0	2	0	0	0	2	36
Totals	84	104	7	5	8	7	63	54	44	28	20	38	13	3	11	24	513

Total Number of Valid Hours: 513

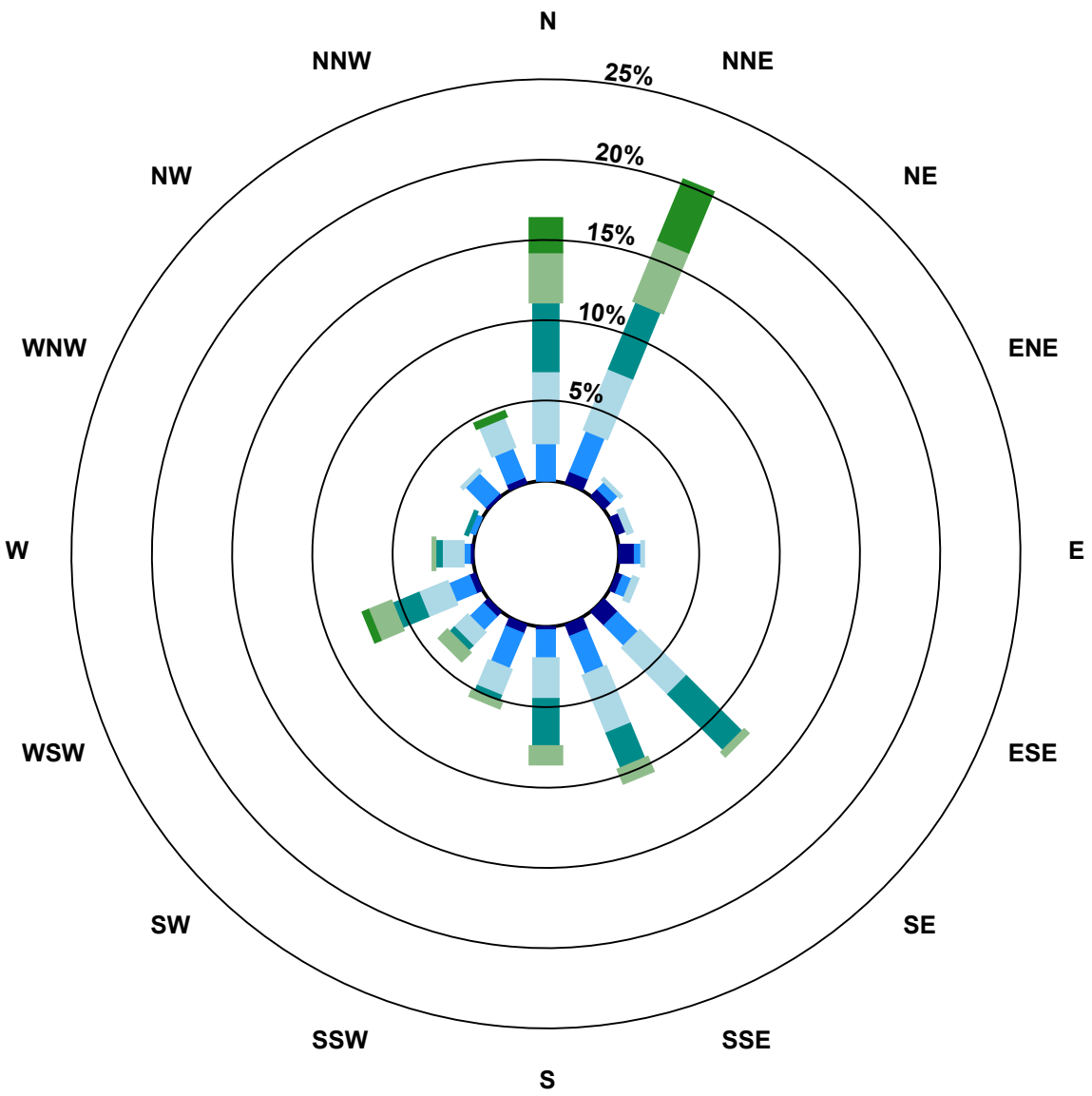
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 90m (WS90) - km/h

Mannix



Classes (km/h)

0 - 5

6 - 11

12 - 19

20 - 28

29 - 38

> 38

Total Number of Valid Hours: 513

Direction of Maximum Speed: 10 deg on Feb 17 17:00
Direction of Maximum Daily Speed Average: 11.0 deg on Feb 17

Direction of Minimum Speed: 73 deg on Feb 14 18:00

Direction of Minimum Daily Speed Average: 3.1 deg on Feb 14

Monthly Average Direction: 96.0 deg

Hours in Service:	672
Hours of Data:	467
Hours of Missing Data:	205
Percent Operational Time:	69.5

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	58	68	84	99	143	143	142	139	138	141	137	141	138	136	135	137	135	136	135	137	137	137	137	142	132.3
2-Feb	142	143	140	134	137	138	146	150	148	158	155	160	167	155	154	154	155	190	276	303	343	9	6	23	142.0
3-Feb	7	13	19	25	356	13	16	16	29	20	37	328	27	131	155	153	164	161	144	144	140	145	145	144	105.2
4-Feb	153	142	148	UO	UO	UO	UO	UO	UO	UO	UO	247	251	262	264	246	247	298	10	9	UO	UO	UO	UO	--
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	10	10	6	4	339	339	338	--
8-Feb	331	337	342	303	308	328	309	302	321	316	314	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	350	352	4	4	344	357	359	359	6	2	358	344	345	--
10-Feb	343	334	322	329	320	298	281	288	264	266	264	215	184	166	170	152	157	160	153	159	180	151	146	153	179.5
11-Feb	155	152	153	149	160	152	151	158	155	161	158	158	154	153	169	208	179	194	169	172	164	164	158	157	160.9
12-Feb	159	180	216	257	181	235	233	228	191	154	153	153	158	165	190	163	169	160	169	179	182	179	216	222	180.9
13-Feb	220	227	240	242	246	251	260	251	238	245	256	249	247	234	238	233	229	206	207	225	213	273	251	226	240.2
14-Feb	161	158	159	155	157	153	157	164	163	161	150	150	59	82	71	67	120	73	348	329	300	292	285	9	144.5
15-Feb	348	350	UO	UO	UO	11	4	356	8	17	21	27	21	20	335	320	332	15	UO	UO	19	18	30	15	8.6
16-Feb	11	352	337	352	2	356	357	328	8	272	12	6	306	309	314	319	354	11	9	11	12	14	13	8	358.2
17-Feb	360	3	9	7	9	12	14	14	12	14	10	9	10	14	13	11	10	11	13	11	12	12	13	12	11.0
18-Feb	UO	12	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	322	328	261	236	--
19-Feb	240	UO	UO	UO	158	153	153	151	153	149	146	144	141	131	139	151	167	181	163	157	157	162	164	161	156.3
20-Feb	158	155	157	158	158	157	151	155	156	157	150	154	148	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
21-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	355	16	15	22	21	15	12	11	14	11	11	--
22-Feb	11	357	6	2	353	337	347	338	332	331	319	327	319	315	307	306	312	312	92	113	132	135	136	135	3.7
23-Feb	138	142	139	144	150	149	162	189	235	195	219	221	340	116	113	148	160	165	175	171	162	175	234	309	160.7
24-Feb	296	219	161	164	142	145	159	165	164	157	153	150	137	121	98	95	84	91	136	147	141	145	144	144	141.6
25-Feb	148	141	137	157	232	353	312	209	166	158	145	153	146	146	149	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
26-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	347	--
27-Feb	349	14	19	18	14	15	13	25	21	16	342	322	310	305	318	304	317	UO	UO	UO	UO	UO	UO	UO	--
28-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	154	158	156	154	152	149	161	159	160	158	--
	105.9	59.0	95.5	71.8	128.8	38.6	73.9	104.8	130.0	137.9	136.6	161.3	165.5	97.8	131.6	156.1	115.5	68.3	72.9	73.7	88.2	94.9	105.6	66.1	
	Diurnal Average																								

UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 99 deg on Feb 25 08:00

Minimum Value: 3 deg on Feb 19 19:00

Percentiles: P_1 = 4 P_{10} = 7 Q_1 = 9 Median = 12 Q_3 = 16 P_{90} = 26 P_{99} = 81

Hours in Service:	672
Hours of Data:	467
Hours of Missing Data:	205
Hours of Calibration:	0
Percent Operational Time:	69.5

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	12	13	13	25	10	9	11	9	8	10	10	9	10	8	9	8	9	9	9	8	8	9	8	9	25
2-Feb	9	9	9	8	7	7	8	7	8	7	9	11	12	15	15	10	12	17	89	22	16	14	16	15	89
3-Feb	19	17	13	15	23	19	14	14	17	17	18	36	71	26	15	16	18	12	10	9	9	9	8	9	71
4-Feb	10	9	10	UO	UO	UO	UO	UO	UO	UO	UO	14	12	13	11	10	9	38	11	10	UO	UO	UO	UO	38
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	12	11	13	13	13	12	16	16
8-Feb	14	15	36	8	11	14	11	10	14	26	23	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	36
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	17	19	15	15	16	12	13	14	15	12	14	12	11	19
10-Feb	13	14	11	12	19	15	21	26	11	17	16	58	34	16	18	9	12	11	5	6	18	9	8	8	58
11-Feb	5	5	7	5	6	11	5	5	5	4	6	7	8	8	25	15	12	7	10	7	7	6	24	7	25
12-Feb	6	10	15	21	29	26	77	43	38	8	7	7	8	19	15	10	11	6	11	14	12	9	12	9	77
13-Feb	9	10	9	8	9	10	10	14	7	11	10	14	12	12	12	10	8	12	11	18	5	47	20	23	47
14-Feb	46	9	6	5	5	7	5	25	11	18	12	11	33	26	21	26	21	81	10	25	10	57	93	23	93
15-Feb	62	20	UO	UO	UO	11	13	13	12	16	14	20	18	20	21	16	18	19	UO	UO	14	9	13	11	62
16-Feb	7	47	24	12	12	17	15	15	82	79	25	34	13	11	13	13	19	10	9	9	10	10	10	10	82
17-Feb	15	15	12	13	10	11	12	18	10	9	10	10	11	10	12	12	11	11	12	11	10	11	10	11	18
18-Feb	UO	10	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	13	31	21	6	31
19-Feb	7	UO	UO	UO	7	7	7	9	8	10	9	10	13	9	12	8	19	13	3	5	6	4	5	5	19
20-Feb	4	4	5	4	5	9	10	8	12	9	11	10	31	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	31
21-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	21	14	11	12	12	10	9	9	10	10	9	21
22-Feb	9	16	11	11	17	13	15	16	11	13	12	16	12	13	12	9	18	39	18	16	12	9	9	9	39
23-Feb	8	9	9	13	14	13	17	20	63	28	27	48	73	34	49	22	7	9	8	8	6	6	34	31	73
24-Feb	62	85	29	9	14	13	7	5	7	8	6	9	15	15	17	13	12	17	10	6	9	9	9	11	85
25-Feb	10	16	62	41	56	20	30	99	18	18	14	15	13	16	17	UO	UO	UO	UO	UO	UO	UO	UO	UO	99
26-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	15	15
27-Feb	13	12	11	10	9	10	10	11	15	17	29	15	17	19	29	17	15	UO	UO	UO	UO	UO	UO	UO	29
28-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	9	7	8	6	5	6	5	5	4	4	9
	62	85	62	41	56	26	77	99	82	79	29	58	73	34	49	26	21	81	89	25	18	57	93	31	
	Diurnal Maximum																								

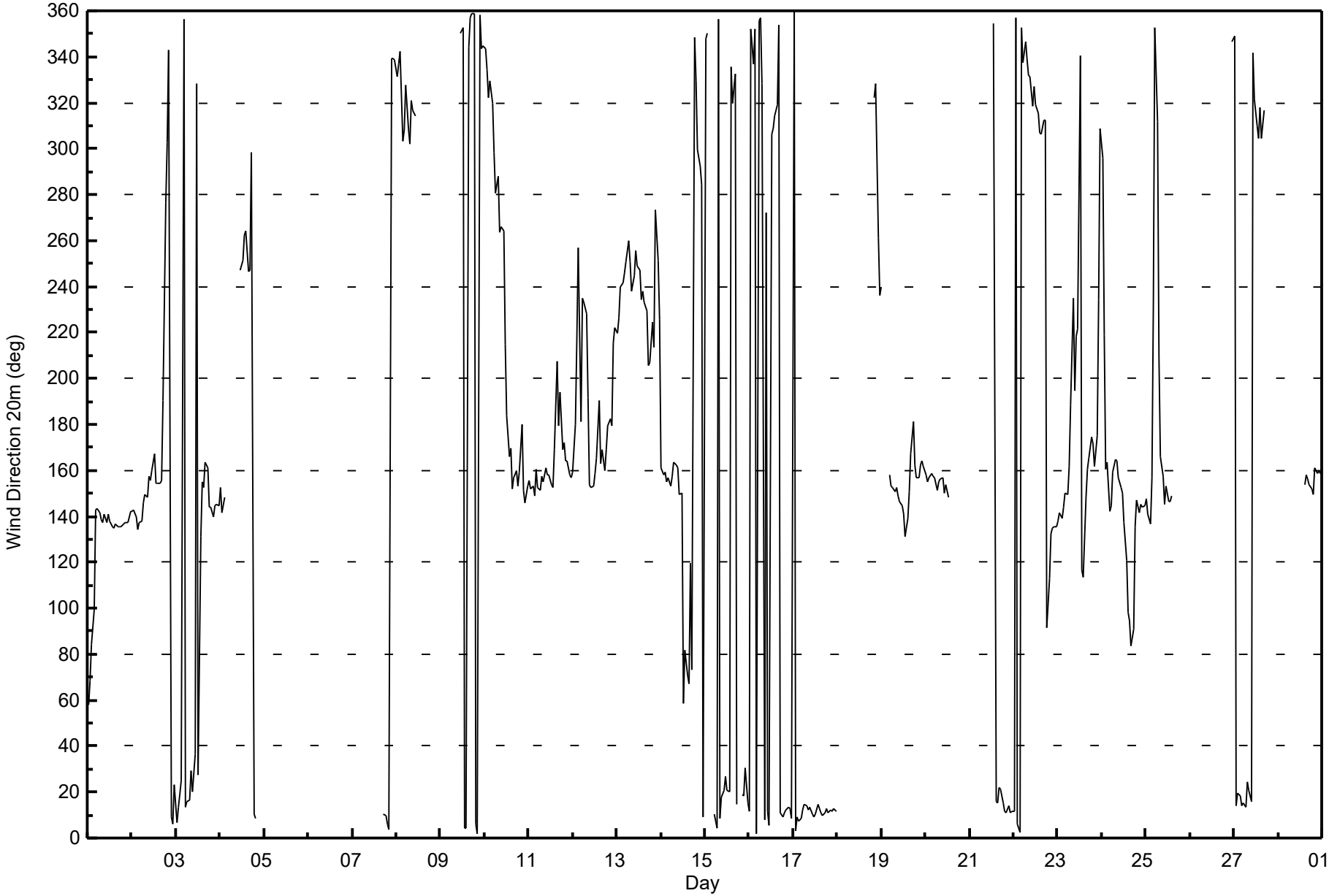
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 20m (WD20) - deg

Mannix - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 45m (WD45) - deg

Mannix - February 2026

Direction of Maximum Speed: 7 deg on Feb 17 17:00
Direction of Maximum Daily Speed Average: 7.8 deg on Feb 17

Direction of Minimum Speed: 160 deg on Feb 14 18:00

Direction of Minimum Daily Speed Average: 2.8 deg on Feb 20

Monthly Average Direction: 39.2 deg

Hours in Service:	672
Hours of Data:	526
Hours of Missing Data:	146
Percent Operational Time:	78.3

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	55	62	79	95	136	136	137	132	132	137	133	139	134	133	130	133	131	131	131	133	134	133	133	139	128.1
2-Feb	140	140	138	131	134	135	141	145	143	156	154	160	167	156	155	153	154	199	273	316	349	8	7	19	139.2
3-Feb	5	11	16	20	357	15	15	17	25	18	32	328	39	126	150	145	155	155	140	142	139	144	143	142	105.3
4-Feb	151	139	146	154	167	190	229	248	250	251	255	247	250	260	263	248	247	295	7	7	3	12	15	10	247.9
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
11-Feb	UO	UO	163	164	169	160	150	159	160	164	157	156	153	168	185	208	185	200	179	181	169	177	189	169	168.4
12-Feb	168	195	229	257	226	254	251	246	228	158	155	153	157	166	190	167	171	158	169	178	183	188	218	223	188.5
13-Feb	221	227	239	241	246	250	258	252	237	245	253	247	245	235	237	232	231	215	214	241	227	257	271	254	240.5
14-Feb	166	166	172	162	157	153	159	158	170	170	161	150	43	73	70	68	126	160	350	339	321	342	129	5	149.0
15-Feb	1	350	13	3	6	8	3	355	6	15	18	22	17	16	333	323	337	14	17	23	22	20	26	15	8.6
16-Feb	10	5	336	350	355	6	7	342	22	324	357	1	307	309	316	321	354	7	6	7	9	8	7	5	357.4
17-Feb	358	1	9	7	7	7	10	10	9	9	7	6	7	11	9	7	7	8	10	8	9	8	9	9	7.8
18-Feb	9	8	9	10	7	8	8	8	7	5	7	6	8	9	9	4	341	343	332	322	322	337	338	235	4.0
19-Feb	227	228	180	170	160	156	153	149	154	152	141	142	139	131	137	146	169	183	165	158	157	156	164	168	159.4
20-Feb	161	163	160	160	161	159	149	158	148	158	150	160	163	48	337	299	322	351	3	6	1	351	348	0	116.2
21-Feb	4	3	351	354	351	5	14	12	353	358	9	345	319	356	14	14	20	19	12	10	9	10	6	8	5.2
22-Feb	8	357	4	1	353	339	349	340	333	332	318	325	322	322	305	309	328	7	97	109	126	130	132	131	7.4
23-Feb	134	137	136	139	146	143	164	183	222	193	210	223	335	109	103	141	164	165	169	171	172	200	240	324	160.7
24-Feb	321	259	180	180	177	178	197	182	185	171	153	146	136	121	100	97	87	103	138	146	139	142	134	139	145.9
25-Feb	139	129	142	146	138	14	345	113	157	156	145	151	143	143	146	117	114	52	344	13	11	6	4	4	61.4
26-Feb	6	8	2	6	345	345	355	350	2	359	356	0	359	6	355	3	351	345	343	343	343	338	343	345	353.2
27-Feb	349	10	15	15	11	11	11	19	18	14	342	321	307	305	322	305	316	307	358	21	23	19	28	30	1.4
28-Feb	315	315	180	154	157	152	153	148	145	157	150	141	147	149	151	156	154	150	150	153	160	163	163	162	154.1
	36.2	34.4	44.0	61.4	93.8	59.6	53.7	79.4	88.1	89.4	49.7	51.8	18.4	35.3	18.5	7.0	9.3	11.1	33.6	32.4	39.3	39.5	32.7	28.9	
	Diurnal Average																								

UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 45m (WD45) - deg

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 85 deg on Feb 14 18:00

Minimum Value: 2 deg on Feb 20 04:00

Percentiles: P_1 = 2 P_{10} = 5 Q_1 = 7 Median = 8 Q_3 = 12 P_{90} = 22 P_{99} = 66

Hours in Service:	672
Hours of Data:	526
Hours of Missing Data:	146
Hours of Calibration:	0
Percent Operational Time:	78.3

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	8	11	12	22	8	6	9	8	6	8	7	7	7	7	7	7	7	7	6	7	6	6	6	7	22
2-Feb	7	7	7	5	5	5	5	4	5	6	7	10	8	15	13	8	10	14	66	14	9	11	10	11	66
3-Feb	15	14	10	11	19	15	12	11	12	15	20	36	76	22	14	12	16	11	8	6	6	6	6	6	76
4-Feb	8	6	7	7	8	11	7	11	8	8	9	12	10	12	9	7	7	39	6	6	8	8	7	7	39
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
11-Feb	UO	UO	7	7	6	7	4	6	2	2	3	4	5	8	22	10	6	5	13	6	4	7	18	6	22
12-Feb	6	11	10	9	21	11	60	32	27	17	4	6	6	16	10	7	8	4	7	8	6	7	8	6	60
13-Feb	5	7	6	6	7	7	8	12	4	8	8	12	10	10	9	9	7	8	8	17	5	19	9	18	19
14-Feb	40	7	8	5	5	3	4	9	7	9	13	16	65	25	20	23	20	85	7	18	9	57	57	20	85
15-Feb	61	19	14	11	9	6	9	8	9	12	10	15	14	17	16	12	13	16	10	9	11	8	9	8	61
16-Feb	5	27	11	10	7	18	10	13	24	71	17	32	8	9	11	9	17	6	5	5	7	6	7	5	71
17-Feb	11	10	7	8	6	7	9	8	6	6	6	6	6	7	9	8	7	7	8	7	7	8	7	7	11
18-Feb	7	7	8	8	7	7	7	7	8	7	7	7	8	7	7	11	12	9	10	10	10	18	25	43	43
19-Feb	10	12	12	4	3	5	6	6	5	9	7	7	10	7	9	7	17	5	4	3	3	3	3	3	17
20-Feb	3	2	2	2	2	4	4	5	4	9	9	11	20	55	54	26	16	9	8	5	8	7	8	6	55
21-Feb	8	7	8	13	17	21	11	14	12	12	12	30	8	18	12	9	9	9	8	5	6	6	5	5	30
22-Feb	5	11	7	7	11	8	10	12	8	10	8	13	11	11	7	8	18	39	10	13	11	6	6	6	39
23-Feb	6	7	7	10	12	12	15	13	68	22	25	45	60	42	59	32	7	7	5	3	5	7	24	23	68
24-Feb	24	47	32	10	13	17	11	13	9	11	8	7	11	15	16	17	15	16	6	4	5	7	6	8	47
25-Feb	9	10	25	24	76	16	36	50	16	11	11	14	11	12	14	31	18	44	14	10	8	5	4	6	76
26-Feb	6	8	9	10	14	14	10	11	6	8	8	7	9	9	22	15	12	10	11	9	8	9	9	12	22
27-Feb	10	8	7	6	6	7	7	8	11	13	27	11	13	14	23	12	14	8	15	9	6	4	6	53	53
28-Feb	38	33	54	7	4	4	4	4	5	6	13	8	7	6	7	4	6	6	2	4	3	3	3	3	54
	61	47	54	24	76	21	60	50	68	71	27	45	76	55	59	32	20	85	66	18	11	57	57	53	
	Diurnal Maximum																								

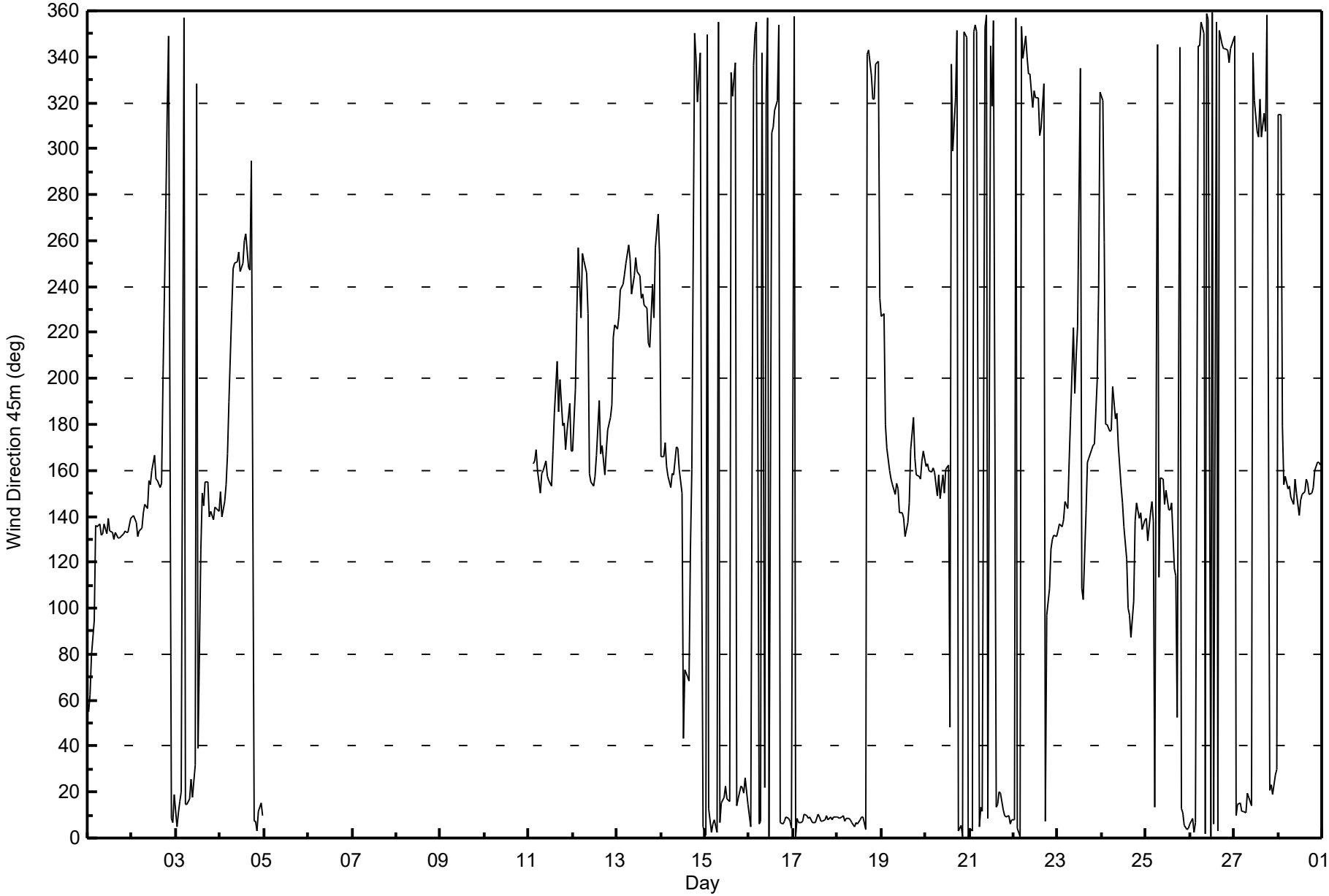
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 45m (WD45) - deg

Mannix - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 75m (WD75) - deg

Mannix - February 2026

Direction of Maximum Speed: 15 deg on Feb 17 17:00
Direction of Maximum Daily Speed Average: 14.6 deg on Feb 17

Direction of Minimum Speed: 211 deg on Feb 19 00:00
Direction of Minimum Daily Speed Average: 1.8 deg on Feb 14

Monthly Average Direction: 31.4 deg

Hours in Service:	672
Hours of Data:	514
Hours of Missing Data:	158
Percent Operational Time:	76.5

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	61	68	83	98	141	140	144	135	137	141	139	144	139	139	134	139	135	135	136	139	139	139	140	144	133.0
2-Feb	145	145	143	139	144	143	145	148	146	157	157	163	172	163	164	159	164	239	292	338	2	18	18	26	143.4
3-Feb	14	19	24	27	9	24	24	28	34	30	47	341	72	128	151	151	148	152	143	148	145	149	147	147	113.4
4-Feb	155	UO	UO	163	180	211	239	253	255	255	259	252	255	265	269	255	254	299	15	15	12	21	24	UO	260.4
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
11-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	165	170	200	204	213	195	210	197	201	197	214	228	203	--
12-Feb	201	219	242	262	245	261	259	257	245	180	174	162	162	174	198	175	181	172	177	186	195	205	226	230	202.5
13-Feb	228	233	243	245	250	255	263	258	242	250	258	251	247	239	241	236	236	228	228	254	240	265	280	269	246.9
14-Feb	188	192	213	189	187	169	186	185	214	219	182	148	135	89	86	118	140	211	2	359	360	23	260	13	179.1
15-Feb	31	359	19	11	15	17	13	5	17	24	25	29	26	23	344	337	359	24	28	32	33	30	31	25	19.1
16-Feb	21	24	351	358	3	20	25	15	40	360	5	18	322	324	331	334	5	15	15	16	18	14	13	12	8.4
17-Feb	7	9	15	15	15	14	17	17	15	15	14	14	14	17	16	14	15	14	16	15	16	15	15	16	14.6
18-Feb	16	15	15	16	15	15	15	14	14	12	14	13	15	16	15	12	350	351	340	334	334	353	18	211	11.4
19-Feb	211	212	200	191	185	177	169	161	171	176	155	148	148	140	146	154	177	191	178	171	174	172	181	193	173.2
20-Feb	189	186	170	171	175	169	162	167	163	165	162	169	167	67	19	315	342	5	12	14	9	2	0	9	98.6
21-Feb	11	9	3	7	10	14	23	32	9	9	19	4	335	7	22	23	28	26	20	18	17	17	14	16	15.0
22-Feb	17	8	12	10	4	354	4	355	347	349	333	339	342	348	317	332	8	75	108	119	129	134	136	136	19.1
23-Feb	137	140	141	142	150	147	164	177	171	188	214	238	348	100	98	137	173	171	170	181	196	245	279	318	168.2
24-Feb	342	303	245	235	236	248	234	214	216	199	169	156	143	130	112	106	105	131	150	151	142	144	136	140	161.4
25-Feb	139	130	136	136	67	41	53	121	158	157	154	157	146	142	144	128	115	78	6	22	20	13	10	10	65.4
26-Feb	12	14	9	13	1	2	6	4	10	7	4	8	7	13	3	10	360	354	352	351	351	346	352	354	1.5
27-Feb	358	16	20	21	18	19	19	26	25	21	354	331	316	316	339	316	328	322	13	30	34	33	41	71	11.6
28-Feb	269	268	209	150	165	161	162	160	154	165	164	143	157	158	157	162	159	157	162	167	177	178	173	171	163.5
	35.0	18.6	16.3	30.1	21.7	18.0	22.2	42.2	41.3	32.6	24.0	62.7	37.5	39.1	23.0	31.0	22.7	20.4	38.7	39.0	42.7	39.4	27.7	30.9	
	Diurnal Average																								

UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 75m (WD75) - deg

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 95 deg on Feb 19 00:00

Minimum Value: 2 deg on Feb 19 20:00

Percentiles: P_1 = 3 P_{10} = 4 Q_1 = 6 Median = 8 Q_3 = 12 P_{90} = 20 P_{99} = 71

Hours in Service:	672
Hours of Data:	514
Hours of Missing Data:	158
Hours of Calibration:	0
Percent Operational Time:	76.5

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	6	9	10	23	7	5	8	10	6	6	7	7	8	7	9	7	9	9	8	6	7	7	6	6	23
2-Feb	5	5	6	5	4	3	4	2	3	6	5	8	7	13	12	8	22	20	18	17	7	10	8	9	22
3-Feb	13	13	8	9	16	13	10	9	10	15	22	43	81	20	13	6	11	8	5	4	3	4	4	4	81
4-Feb	7	UO	UO	6	10	11	5	9	7	7	8	11	9	12	9	7	7	40	4	6	7	6	5	UO	40
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
11-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	42	7	7	15	10	5	6	11	7	7	8	13	9	42
12-Feb	7	9	8	9	12	8	32	18	20	26	4	7	7	16	9	6	8	4	5	6	5	6	6	5	32
13-Feb	5	6	6	5	6	7	8	12	4	7	7	11	9	9	8	8	6	6	8	14	6	15	5	12	15
14-Feb	45	18	15	12	9	12	11	18	14	17	35	10	65	24	21	29	10	72	5	9	7	54	76	16	76
15-Feb	44	18	13	9	8	5	7	7	8	11	7	13	11	15	14	13	14	13	7	6	7	5	7	6	44
16-Feb	4	10	19	10	8	22	11	9	9	33	20	29	14	10	10	8	16	4	5	4	6	4	5	4	33
17-Feb	8	7	5	6	5	5	7	7	5	5	5	4	5	5	7	7	6	7	7	6	6	6	6	6	8
18-Feb	6	6	7	7	6	6	6	7	6	6	6	6	6	6	6	9	11	9	8	9	9	9	12	95	95
19-Feb	6	9	6	6	4	3	6	4	6	6	12	7	10	8	9	7	16	3	4	2	3	3	4	5	16
20-Feb	4	5	8	3	4	9	3	4	3	4	5	9	20	77	41	25	19	7	6	4	6	5	6	4	77
21-Feb	5	5	7	10	12	14	9	11	11	10	13	27	9	14	10	7	6	7	6	4	5	4	4	4	27
22-Feb	4	9	5	6	8	7	9	10	7	8	10	15	13	15	8	14	14	27	12	13	12	8	8	8	27
23-Feb	7	7	6	9	12	12	9	17	72	20	27	59	53	60	62	38	8	6	3	3	13	12	10	19	72
24-Feb	7	35	10	4	12	13	8	10	8	9	9	12	10	16	17	18	19	15	6	5	4	5	7	5	35
25-Feb	8	11	15	15	39	13	36	21	8	10	11	13	11	12	13	26	18	40	7	7	6	4	3	4	40
26-Feb	4	6	7	7	10	10	7	8	4	7	5	5	7	7	20	14	9	8	10	7	7	8	8	10	20
27-Feb	8	7	6	4	5	6	5	7	10	10	25	12	15	14	25	15	15	10	11	7	2	3	6	34	34
28-Feb	48	38	22	8	3	3	4	2	3	7	18	7	7	5	6	4	5	3	3	8	3	3	4	2	48
	48	38	22	23	39	22	36	21	72	33	35	59	81	77	62	38	22	72	18	17	13	54	76	95	
	Diurnal Maximum																								

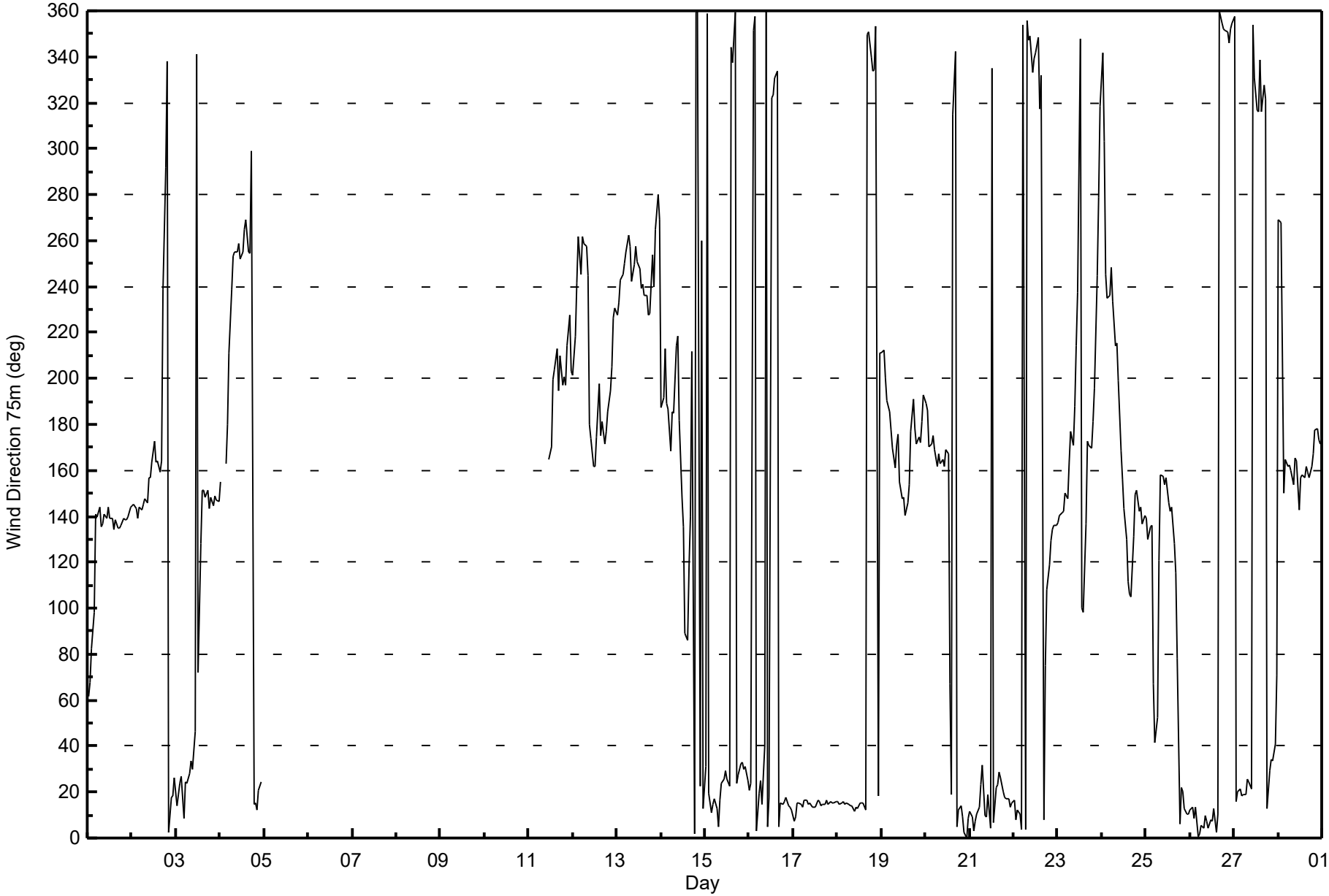
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 75m (WD75) - deg

Mannix - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 90m (WD90) - deg

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 91 deg on Feb 20 14:00

Minimum Value: 2 deg on Feb 2 08:00

Percentiles: $P_1 = 2$ $P_{10} = 4$ $Q_1 = 5$ Median = 7 $Q_3 = 11$ $P_{90} = 19$ $P_{99} = 61$

Hours in Service:	672
Hours of Data:	513
Hours of Missing Data:	159
Hours of Calibration:	0
Percent Operational Time:	76.3

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	6	9	10	22	7	5	10	9	6	6	6	6	7	7	7	6	8	7	6	6	6	6	5	6	22
2-Feb	5	5	5	3	4	3	3	2	2	5	4	8	7	13	13	6	29	15	11	17	6	10	7	8	29
3-Feb	13	13	7	9	17	12	10	9	10	17	27	44	52	17	14	5	9	7	4	4	3	4	3	3	52
4-Feb	6	4	5	7	12	10	4	8	7	7	8	10	8	11	8	7	6	38	4	6	6	5	UO	UO	38
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
11-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	6	13	10	5	6	10	7	6	6	9	9	13
12-Feb	7	8	7	8	9	7	26	13	17	26	5	9	7	16	8	5	9	4	5	6	5	6	6	4	26
13-Feb	4	6	5	5	6	6	7	11	4	7	7	10	8	8	7	8	6	4	9	12	5	14	5	12	14
14-Feb	51	26	15	13	10	17	12	20	13	13	41	11	36	26	21	21	10	62	5	7	12	51	38	13	62
15-Feb	30	18	12	8	7	5	6	6	7	11	7	12	11	14	15	13	14	12	6	5	6	4	5	5	30
16-Feb	4	7	20	12	11	18	10	8	6	27	17	24	15	10	9	8	15	4	4	4	5	4	5	3	27
17-Feb	7	7	5	6	5	5	6	6	5	4	4	4	4	5	6	6	6	7	7	6	6	6	6	6	7
18-Feb	6	6	6	6	6	5	6	6	6	5	6	5	6	5	6	9	10	9	8	8	9	9	11	71	71
19-Feb	9	9	7	8	6	5	9	5	9	6	15	7	10	7	8	8	15	3	4	2	3	2	6	6	15
20-Feb	4	3	17	6	10	16	5	3	2	2	4	8	25	91	40	23	19	6	5	4	5	4	5	3	91
21-Feb	4	5	6	8	10	10	7	8	10	9	13	25	10	13	9	7	6	7	6	4	4	4	3	4	25
22-Feb	4	8	5	6	7	7	8	9	6	7	10	14	13	14	9	20	13	21	7	10	10	7	7	6	21
23-Feb	6	5	5	8	12	12	9	19	63	20	27	43	51	80	80	38	8	5	3	6	16	10	8	15	80
24-Feb	5	22	8	3	9	8	6	9	7	9	8	14	10	12	13	15	16	10	5	4	3	4	5	5	22
25-Feb	8	7	10	11	28	13	42	14	7	12	10	14	11	11	12	25	14	39	6	6	6	4	3	4	42
26-Feb	4	5	6	6	8	8	6	7	4	6	5	5	6	6	19	13	8	7	9	6	6	7	8	10	19
27-Feb	8	7	6	4	5	5	5	6	9	9	23	12	15	13	24	16	15	12	10	6	2	5	5	22	24
28-Feb	47	30	10	8	6	3	4	2	5	12	23	6	7	5	5	5	4	3	3	8	3	3	4	3	47
	51	30	20	22	28	18	42	20	63	27	41	44	52	91	80	38	29	62	11	17	16	51	38	71	
	Diurnal Maximum																								

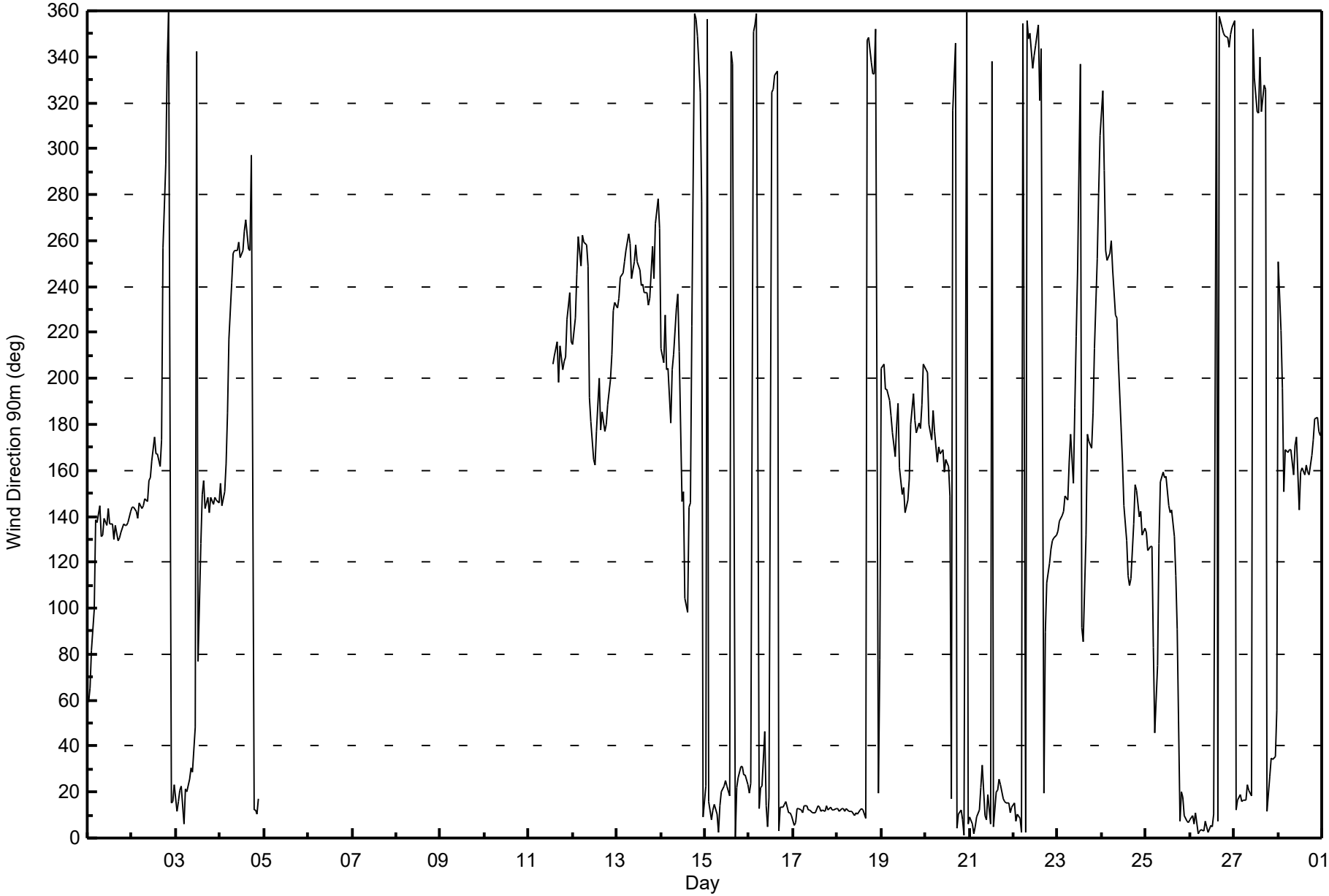
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 90m (WD90) - deg

Mannix - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Vertical Wind Speed 20m (VW20) - km/h

Mannix - February 2026

Maximum Value: 1.3 km/h on Feb 22 21:00

Maximum Daily Average: 0.6 km/h on Feb 1

Minimum Value: -1.6 km/h on Feb 17 18:00

Minimum Daily Average: -1.0 km/h on Feb 17

Maximum Diurnal Average: 0.2 km/h at hour 12

Minimum Diurnal Average: 0.0 km/h at hour 18

Monthly Average: 0.07 km/h

Percentiles: P_1 = -1.3 P_{10} = -0.5 Q_1 = -0.2 Median = 0.1 Q_3 = 0.5 P_{90} = 0.7 P_{99} = 1.0

Hours in Service:	672
Hours of Data:	467
Hours of Missing Data:	205
Hours of Calibration:	0
Percent Operational Time:	69.5

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.3	0.7	0.4	0.3	0.4	0.5	0.4	0.7	0.5	0.7	0.8	0.7	0.6	0.6	0.8	0.6	0.6	0.8	0.9	0.7	0.8	0.8	0.6	0.7	0.6	0.9
2-Feb	0.8	0.8	0.8	0.9	0.7	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.3	0.3	0.4	0.5	0.3	0.0	0.0	-0.1	-0.2	-0.2	-0.3	0.0	0.3	0.9
3-Feb	-0.1	-0.2	-0.3	0.1	0.0	0.0	-0.3	-0.1	0.0	-0.1	-0.3	0.1	0.2	0.4	0.3	0.3	0.2	0.3	0.5	0.6	0.7	0.9	0.9	0.9	0.2	0.9
4-Feb	0.8	0.9	0.8	UO	UO	UO	UO	UO	UO	UO	UO	0.1	-0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-0.7	-0.7	UO	UO	UO	UO	--	0.9
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	-0.5	-0.4	-0.2	-0.4	-0.2	-0.2	-0.2	--	-0.2
8-Feb	-0.4	-0.3	-0.3	0.1	-0.2	-0.2	-0.3	-0.1	-0.1	-0.1	-0.3	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	0.1
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	-0.3	-0.1	-0.4	-0.4	-0.2	-0.4	-0.5	-0.4	-0.3	-0.5	-0.3	-0.2	-0.3	--	-0.1
10-Feb	-0.1	-0.1	-0.2	-0.1	-0.1	0.1	0.0	0.0	0.1	0.0	-0.2	0.3	0.3	0.3	0.3	0.6	0.4	0.4	0.5	0.5	0.1	0.5	0.8	0.7	0.2	0.8
11-Feb	0.6	0.3	0.3	0.3	0.3	0.3	0.7	0.6	0.7	0.8	0.7	0.8	0.8	0.4	0.4	0.1	0.1	-0.1	0.3	0.2	0.3	0.3	0.2	0.3	0.4	0.8
12-Feb	0.5	0.1	-0.1	0.0	0.1	-0.1	0.0	-0.1	0.1	0.5	0.6	0.7	0.7	0.6	0.1	0.7	0.4	0.9	0.6	0.3	0.1	0.0	-0.3	-0.2	0.3	0.9
13-Feb	-0.3	-0.2	-0.2	-0.3	-0.5	-0.3	-0.4	-0.1	-0.2	-0.2	-0.3	-0.2	0.0	0.1	-0.2	0.0	0.0	-0.1	-0.1	-0.1	-0.3	-0.1	0.0	-0.1	-0.2	0.1
14-Feb	0.1	0.3	0.3	0.5	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.4	0.2	-0.1	0.1	0.0	0.2	0.0	-0.3	-0.1	-0.1	0.0	0.0	-0.3	0.1	0.5
15-Feb	-0.1	-0.3	UO	UO	UO	-0.6	-0.5	-0.3	-0.3	0.3	-0.2	-0.2	0.1	-0.2	-0.1	0.1	0.2	-0.2	UO	UO	0.0	-0.1	-0.1	-0.1	-0.1	0.3
16-Feb	-0.3	-0.2	-0.3	-0.2	-0.3	-0.1	-0.2	-0.2	0.0	0.0	0.0	-0.1	-0.1	-0.3	-0.2	-0.4	-0.4	-0.7	-0.8	-0.9	-0.8	-0.8	-0.8	-0.8	-0.4	0.0
17-Feb	-0.2	-0.6	-0.7	-0.3	-0.8	-0.8	-0.7	-1.4	-1.1	-1.2	-1.3	-1.1	-1.3	-1.1	-0.9	-1.0	-1.3	-1.6	-1.0	-1.5	-1.2	-1.5	-1.1	-1.2	-1.0	-0.2
18-Feb	UO	-1.4	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	-0.2	-0.1	-0.1	-0.2	--	-0.1
19-Feb	-0.1	UO	UO	UO	0.5	0.4	0.5	0.6	0.5	0.4	0.8	1.0	0.8	0.7	0.8	0.8	0.3	0.1	0.6	0.6	0.6	0.7	0.7	0.6	0.6	1.0
20-Feb	0.6	0.5	0.6	0.6	0.5	0.4	0.4	0.2	0.1	0.1	0.6	0.1	0.3	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	0.6
21-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	-0.4	-0.5	-0.3	-0.4	-0.1	-0.5	-0.7	-0.5	-0.7	-0.8	-0.9	--	-0.1
22-Feb	-0.8	-0.5	-0.5	-0.5	-0.3	-0.4	-0.2	-0.1	-0.4	-0.2	-0.3	0.1	-0.2	-0.3	-0.1	-0.2	-0.1	-0.1	0.7	1.2	1.3	0.7	0.5	0.6	0.0	1.3
23-Feb	0.5	0.6	0.6	0.5	0.3	0.3	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.3	0.1	0.6	0.3	0.2	0.1	0.1	0.2	0.2	0.0	-0.1	0.2	0.6
24-Feb	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.2	0.4	0.4	0.2	0.2	0.5	0.5	0.7	0.5	0.5	0.7	0.3	0.7
25-Feb	0.5	0.7	0.2	-0.1	0.0	-0.1	-0.1	0.1	0.3	0.4	0.6	0.6	0.5	0.5	0.3	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	0.7
26-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	-0.6	--	-0.6
27-Feb	-0.9	-0.7	-0.5	-0.7	-0.8	-0.6	-0.6	-0.1	-0.2	0.0	-0.3	-0.3	-0.2	0.1	-0.1	0.0	-0.2	UO	UO	UO	UO	UO	UO	UO	--	0.1
28-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	1.0	0.9	0.7	0.4	0.6	0.5	0.6	0.8	1.1	1.0	--	1.1
	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	Diurnal Average	
	0.8	0.9	0.8	0.9	0.7	0.5	0.7	0.7	0.7	0.8	0.8	1.0	0.8	0.7	1.0	0.9	0.7	0.9	0.9	1.2	1.3	0.9	1.1	1.0	Diurnal Maximum	

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Vertical Wind Speed 20m (VW20) - km/h

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 1
Maximum Value: 8.4 km/h on Feb 17 08:00

Minimum Value: 0.1 km/h on Feb 24 02:00

Percentiles: P_1 = 0.2 P_{10} = 0.5 Q_1 = 0.7 Median = 1.1 Q_3 = 1.7 P_{90} = 2.3 P_{99} = 4.1

Hours in Service:	672
Hours of Data:	467
Hours of Missing Data:	205
Hours of Calibration:	0
Percent Operational Time:	69.5

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1.3	1.4	1.1	0.9	1.1	1.1	1.0	1.4	1.7	1.8	1.9	1.8	1.8	1.8	2.1	2.0	2.0	2.1	2.2	2.1	2.0	1.9	1.8	1.9	2.2
2-Feb	1.9	2.0	1.6	1.6	1.3	1.3	1.3	0.9	1.0	0.9	0.9	1.0	1.1	1.0	0.9	0.8	0.5	0.4	0.2	0.4	0.8	1.3	1.2	1.3	2.0
3-Feb	1.1	1.6	1.6	1.6	0.9	1.0	1.0	0.9	1.1	0.9	0.8	0.8	1.0	0.9	0.9	0.7	0.8	0.9	1.3	1.6	1.6	1.8	1.9	2.0	2.0
4-Feb	1.6	2.0	1.9	UO	UO	UO	UO	UO	UO	UO	UO	2.2	1.8	1.5	1.1	1.3	1.1	1.2	2.6	2.3	UO	UO	UO	UO	2.6
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	1.7	1.3	1.4	1.3	1.0	0.8	0.9	1.7
8-Feb	1.0	1.0	0.9	0.8	1.0	1.0	0.9	1.0	0.8	0.8	0.9	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	1.0
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	1.1	1.2	1.3	1.4	1.4	1.6	1.5	1.9	1.6	1.7	1.2	1.1	1.0	1.9
10-Feb	0.9	0.8	0.7	0.9	0.7	0.8	0.7	0.6	0.5	0.5	0.5	1.1	1.1	1.1	1.3	1.0	0.8	0.5	0.5	0.7	0.5	0.7	1.4	1.2	1.4
11-Feb	0.8	0.7	0.9	0.9	0.5	0.6	0.8	0.5	0.8	0.7	1.1	1.3	1.3	0.7	1.0	1.3	0.9	0.6	0.6	0.7	0.6	0.5	0.4	0.5	1.3
12-Feb	0.5	0.8	1.0	0.8	0.8	0.9	1.1	0.8	0.7	0.9	1.0	1.1	1.3	1.8	1.5	1.0	1.3	1.1	1.5	1.8	1.9	1.4	1.8	1.9	1.9
13-Feb	1.7	1.7	2.2	2.4	2.8	2.8	2.4	1.3	1.4	2.1	2.5	1.6	1.9	1.4	1.4	1.2	0.9	0.5	0.5	0.3	0.4	0.4	0.4	0.2	2.8
14-Feb	0.3	0.4	0.4	0.5	0.5	0.7	0.5	0.8	0.6	0.7	0.7	0.8	0.7	0.7	0.8	0.5	0.3	0.5	1.0	0.7	0.5	0.2	0.3	1.7	1.7
15-Feb	0.8	1.7	UO	UO	UO	2.2	1.8	1.6	1.8	1.8	1.7	1.6	1.6	1.5	1.2	1.3	0.9	1.3	UO	UO	1.5	1.0	0.9	0.9	2.2
16-Feb	0.7	0.5	0.5	0.6	0.7	0.4	0.4	0.4	0.4	0.5	1.0	1.3	1.2	1.2	1.5	1.7	1.8	2.3	2.9	2.7	2.6	2.7	2.8	3.1	3.1
17-Feb	2.3	2.9	3.0	2.5	2.9	3.4	3.0	8.4	3.0	3.2	3.4	3.7	4.2	3.6	3.7	4.4	4.3	4.2	4.1	4.1	3.3	3.8	3.6	4.0	8.4
18-Feb	UO	3.9	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	0.7	0.5	0.4	0.2	3.9
19-Feb	0.2	UO	UO	UO	0.8	0.9	1.2	1.4	1.1	1.1	1.3	1.6	1.4	1.4	1.4	1.3	1.3	1.1	0.5	0.6	0.6	0.7	0.9	0.8	1.6
20-Feb	0.6	0.5	0.6	0.6	0.6	0.5	0.7	0.4	0.5	0.7	1.2	0.8	1.2	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	1.2
21-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	2.0	2.3	1.9	1.9	1.7	1.9	2.3	2.6	2.3	2.7	2.3	2.7
22-Feb	2.1	1.9	2.1	1.9	1.7	1.6	1.7	1.2	1.2	1.1	1.2	1.3	1.2	1.1	1.2	0.9	0.6	0.6	1.6	1.7	2.0	1.9	1.8	1.8	2.1
23-Feb	1.8	1.6	1.7	1.1	0.8	1.0	0.5	0.5	0.5	1.1	1.3	1.3	0.9	1.1	1.1	1.0	0.5	0.3	0.4	0.5	0.3	0.3	0.2	0.2	1.8
24-Feb	0.1	0.1	0.2	0.2	0.4	0.3	0.3	0.4	0.4	0.4	0.6	0.9	1.1	1.2	1.1	0.9	0.7	0.5	0.6	0.8	1.3	1.3	1.4	1.6	1.6
25-Feb	1.2	1.2	0.9	0.6	0.3	0.4	0.4	0.3	0.6	0.9	1.1	1.1	1.2	0.9	1.1	UO	UO	UO	UO	UO	UO	UO	UO	UO	1.2
26-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	3.2	3.2
27-Feb	3.2	3.2	2.9	2.8	2.5	2.2	2.1	2.2	2.0	2.0	1.6	1.7	1.5	1.6	1.5	1.2	0.9	UO	UO	UO	UO	UO	UO	UO	3.2
28-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	1.9	1.5	1.1	0.5	0.6	0.8	0.5	0.7	1.0	1.0	1.9
	3.2	3.9	3.0	2.8	2.9	3.4	3.0	8.4	3.0	3.2	3.4	3.7	4.2	3.6	3.7	4.4	4.3	4.2	4.1	4.1	3.3	3.8	3.6	4.0	
	Diurnal Maximum																								

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Vertical Wind Speed 45m (VW45) - km/h

Mannix - February 2026

Maximum Value: 2.6 km/h on Feb 4 04:00

Maximum Daily Average: 1.4 km/h on Feb 28

Minimum Value: -3.2 km/h on Feb 18 00:00

Minimum Daily Average: -2.4 km/h on Feb 17

Maximum Diurnal Average: 0.2 km/h at hour 8

Minimum Diurnal Average: -0.2 km/h at hour 24

Monthly Average: 0.01 km/h

Percentiles: P_1 = -3.0 P_{10} = -1.6 Q_1 = -0.7 Median = 0.1 Q_3 = 0.9 P_{90} = 1.5 P_{99} = 2.1

Hours in Service:	672
Hours of Data:	526
Hours of Missing Data:	146
Hours of Calibration:	0
Percent Operational Time:	78.3

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	0.7	0.4	0.2	0.6	0.7	0.5	1.0	0.4	1.2	0.9	1.3	0.7	0.8	0.8	0.9	0.6	1.0	1.1	1.0	1.1	0.9	0.8	1.3	0.8	1.3
2-Feb	1.4	1.4	1.2	1.2	1.2	1.0	1.3	1.2	1.2	1.2	1.1	1.1	1.0	0.8	0.8	0.8	0.5	0.2	0.0	-0.3	-0.6	-0.4	-0.8	-0.3	0.7	1.4
3-Feb	-0.2	-0.7	-0.9	-0.4	-0.3	0.0	-0.7	-0.3	0.0	-0.3	-0.5	0.1	0.2	0.7	0.7	0.6	0.6	0.8	1.1	1.5	1.5	1.8	1.9	1.8	0.4	1.9
4-Feb	1.7	1.9	2.2	2.6	2.0	0.9	0.3	0.1	0.0	0.1	-0.1	0.2	0.2	0.0	0.1	0.1	0.1	-0.4	-1.7	-1.6	-1.1	-1.0	-0.8	-1.0	0.2	2.6
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
11-Feb	UO	UO	1.0	1.1	1.1	1.5	2.0	1.8	1.9	1.9	1.9	2.1	2.0	0.9	0.8	0.6	0.8	0.4	1.0	1.1	1.1	0.8	0.4	0.7	1.2	2.1
12-Feb	1.1	0.8	0.3	0.2	0.2	0.2	0.2	0.0	0.3	1.3	1.3	1.3	1.7	1.6	0.9	1.6	1.5	2.1	1.9	1.7	1.5	1.1	0.6	0.6	1.0	2.1
13-Feb	0.5	0.4	0.3	0.3	-0.1	0.1	0.0	0.1	0.2	0.2	-0.1	0.1	0.2	0.4	0.1	0.4	0.3	0.3	0.3	0.0	0.0	0.1	-0.1	0.0	0.2	0.5
14-Feb	0.2	0.8	0.7	1.0	1.2	1.7	1.0	1.2	0.8	0.5	0.6	0.7	0.1	-0.1	0.2	0.1	0.4	0.2	-0.8	-0.4	-0.4	-0.1	0.2	-1.2	0.4	1.7
15-Feb	-0.2	-0.9	-0.8	-1.0	-1.1	-1.4	-0.9	-0.9	-0.7	-0.1	-0.6	-0.4	0.0	-0.4	-0.2	-0.1	0.0	-0.4	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.5	0.0
16-Feb	-0.6	-0.2	-0.5	-0.6	-0.7	-0.1	-0.2	-0.3	0.0	0.0	0.0	-0.2	-0.3	-0.5	-0.5	-1.0	-1.0	-1.6	-1.8	-1.9	-1.8	-1.8	-1.7	-1.9	-0.8	0.0
17-Feb	-0.6	-1.5	-1.9	-1.6	-2.0	-2.3	-1.7	-1.7	-2.4	-2.6	-2.7	-2.8	-3.1	-2.6	-2.0	-2.6	-3.0	-3.0	-2.6	-2.9	-2.7	-3.0	-2.7	-3.2	-2.4	-0.6
18-Feb	-2.8	-2.9	-2.3	-2.2	-2.4	-2.7	-2.5	-1.9	-2.2	-2.8	-2.2	-2.0	-1.8	-1.8	-1.7	-1.0	-0.8	-1.0	-1.0	-0.5	-0.4	-0.4	-0.2	0.1	-1.6	0.1
19-Feb	0.3	0.2	0.4	0.6	1.5	0.9	1.3	1.5	1.2	1.0	1.2	1.5	1.2	0.9	1.1	1.2	1.0	1.1	1.4	1.6	1.6	1.8	1.9	1.4	1.2	1.9
20-Feb	1.4	1.5	1.6	1.8	1.7	1.5	1.8	1.1	1.2	0.7	1.2	0.2	0.1	0.0	0.3	-0.3	-0.6	-0.7	-1.4	-1.6	-1.4	-1.2	-1.2	-0.9	0.3	1.8
21-Feb	-0.7	-0.7	-0.7	-0.1	-0.4	-0.4	-0.5	-0.4	-0.6	-0.7	-0.8	-0.3	-0.9	-1.1	-1.0	-0.6	-0.8	-0.5	-0.9	-1.5	-1.3	-1.3	-2.0	-1.8	-0.8	-0.1
22-Feb	-1.4	-0.8	-1.0	-0.8	-0.8	-1.0	-0.7	-0.5	-0.7	-0.5	-0.4	0.1	-0.4	-0.5	-0.2	-0.4	-0.3	0.0	0.9	2.1	2.1	0.6	0.7	0.7	-0.1	2.1
23-Feb	0.6	1.0	1.0	0.8	0.5	0.2	0.3	0.4	0.1	0.4	0.2	0.1	0.1	0.4	0.2	1.0	0.4	0.4	0.6	0.9	0.8	0.3	0.1	-0.5	0.4	1.0
24-Feb	-0.2	0.1	0.2	0.3	0.6	0.4	0.3	0.3	0.4	0.4	0.5	0.3	0.4	0.3	0.5	0.6	0.1	0.3	0.9	1.4	1.4	1.2	1.0	1.1	0.5	1.4
25-Feb	1.0	1.0	0.7	0.1	0.1	-0.2	0.0	0.3	0.7	0.5	0.7	0.9	0.9	1.1	0.7	0.2	0.4	0.1	-0.4	-0.7	-0.9	-1.5	-1.5	-1.0	0.1	1.1
26-Feb	-1.0	-1.2	-1.1	-0.8	-0.8	-0.6	-0.5	-0.4	-1.5	-1.2	-1.3	-1.6	-1.5	-1.8	-1.5	-1.5	-1.7	-2.4	-1.8	-2.8	-3.0	-2.1	-2.2	-1.5	-1.5	-0.4
27-Feb	-1.5	-1.5	-1.2	-1.4	-1.5	-1.2	-1.1	-0.6	-0.5	-0.1	-0.2	-0.7	-0.5	-0.1	-0.3	-0.2	-0.2	-0.3	-0.4	0.1	-0.5	-0.5	-0.1	0.1	-0.6	0.1
28-Feb	0.0	0.0	0.3	1.3	1.5	1.5	2.0	1.8	1.7	1.3	1.0	1.2	1.6	1.7	1.7	1.7	1.3	0.9	1.4	1.4	1.8	2.0	2.3	2.0	1.4	2.3
	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	Diurnal Average	
	1.7	1.9	2.2	2.6	2.0	1.7	2.0	1.8	1.9	1.9	1.9	2.1	2.0	1.7	1.7	1.7	1.5	2.1	1.9	2.1	2.1	2.0	2.3	2.0	Diurnal Maximum	

UO - Unstable Operation

Summary of Hour Standard Deviations

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 4.6 km/h on Feb 26 18:00

Minimum Value: 0.1 km/h on Feb 28 02:00

Percentiles: P_1 = 0.2 P_{10} = 0.4 Q_1 = 0.8 Median = 1.3 Q_3 = 1.9 P_{90} = 2.7 P_{99} = 4.0

Hours in Service:	672
Hours of Data:	526
Hours of Missing Data:	146
Hours of Calibration:	0
Percent Operational Time:	78.3

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1.5	1.7	1.2	1.0	1.1	1.3	0.9	1.6	1.9	2.0	2.1	2.1	2.1	2.1	2.4	2.3	2.4	2.4	2.4	2.3	2.1	2.1	1.9	2.1	2.4
2-Feb	2.2	2.3	1.9	1.5	1.2	1.1	1.4	0.9	1.0	0.9	0.9	1.1	1.0	1.1	0.9	0.9	0.6	0.3	0.3	0.3	1.0	1.2	1.3	1.5	2.3
3-Feb	1.2	1.7	1.8	1.6	1.1	1.3	1.1	1.0	1.4	0.9	0.9	0.9	0.9	1.1	1.1	0.9	0.8	0.9	1.3	1.7	1.6	1.9	2.0	2.0	2.0
4-Feb	1.8	2.1	2.1	2.1	1.6	0.8	0.9	1.9	2.0	2.5	2.4	2.7	2.0	1.8	1.3	1.4	1.1	1.4	2.2	1.8	1.8	2.0	1.8	1.5	2.7
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
11-Feb	UO	UO	1.3	0.9	0.6	0.9	0.6	0.4	0.5	0.5	1.0	1.2	1.2	0.7	1.0	1.1	0.7	0.4	0.9	0.8	0.6	0.6	0.6	0.4	1.3
12-Feb	0.6	0.8	1.0	1.1	1.1	1.4	1.4	1.3	1.2	0.9	0.8	1.0	1.2	1.7	1.4	1.1	1.2	1.0	1.7	1.8	1.9	1.5	1.8	1.8	1.9
13-Feb	1.6	1.7	2.4	2.5	2.9	3.1	2.6	1.5	1.4	2.3	2.7	1.9	2.0	1.5	1.6	1.2	0.9	0.3	0.3	0.4	0.5	0.6	0.6	0.3	3.1
14-Feb	0.4	0.4	0.7	0.5	0.6	0.8	0.6	0.9	0.6	0.8	0.6	0.7	0.7	0.6	0.8	0.5	0.5	0.6	0.8	0.7	0.4	0.4	0.5	1.6	1.6
15-Feb	0.7	1.8	2.2	1.8	1.9	1.8	1.6	1.7	1.9	2.1	1.9	1.9	1.9	1.7	1.6	1.4	1.0	1.5	1.8	2.0	2.0	1.5	1.1	1.0	2.2
16-Feb	0.6	0.8	0.5	0.4	0.5	0.4	0.4	0.3	0.4	0.4	1.2	1.5	1.2	1.3	1.8	1.9	1.7	1.9	2.4	2.1	2.5	2.4	2.6	2.5	2.6
17-Feb	2.6	2.9	2.9	2.5	2.4	3.0	3.0	3.1	2.8	2.7	2.9	2.8	3.5	3.4	3.8	4.2	3.9	3.9	4.1	3.8	3.1	3.9	3.3	3.7	4.2
18-Feb	3.7	3.8	3.9	3.8	3.5	3.5	3.5	3.8	3.2	3.1	3.1	3.0	2.7	2.4	2.4	2.1	2.1	1.8	1.7	1.1	0.8	0.6	0.5	0.3	3.9
19-Feb	0.2	0.2	0.3	0.4	0.7	0.8	1.1	1.3	1.1	1.1	1.5	1.8	1.7	1.5	1.6	1.7	1.3	0.8	0.5	0.8	0.7	0.7	0.6	0.5	1.8
20-Feb	0.6	0.5	0.4	0.5	0.5	0.5	0.7	0.4	0.5	0.7	1.3	0.8	1.2	0.8	1.2	0.7	1.1	1.4	1.8	1.9	2.1	1.8	1.8	1.5	2.1
21-Feb	1.6	1.4	1.2	1.2	1.1	1.4	1.5	1.0	1.3	1.7	1.5	1.5	1.5	1.9	2.4	2.0	2.0	1.9	1.9	2.1	2.2	2.1	1.9	1.8	2.4
22-Feb	1.6	1.8	1.6	1.8	1.6	1.7	1.6	1.2	1.4	1.3	1.3	1.4	1.1	1.1	1.3	0.8	0.5	0.8	1.8	2.0	2.3	2.1	2.1	2.0	2.3
23-Feb	1.9	1.8	1.8	1.6	1.1	1.3	0.6	0.5	0.5	1.1	1.2	1.0	0.9	1.2	1.3	1.2	0.7	0.3	0.2	0.3	0.4	0.3	0.3	0.4	1.9
24-Feb	0.2	0.1	0.2	0.2	0.4	0.6	0.4	0.4	0.4	0.4	0.7	1.1	1.3	1.3	1.2	1.1	0.8	0.7	0.7	0.5	1.2	1.2	1.3	1.8	1.8
25-Feb	1.3	1.4	1.2	0.7	0.4	0.4	0.4	0.5	0.5	1.0	1.2	1.4	1.5	1.4	1.3	0.8	0.7	0.4	0.6	1.6	1.8	1.6	1.4	1.9	1.9
26-Feb	1.9	2.0	1.9	1.7	1.5	1.4	1.7	1.6	1.6	2.0	2.6	2.9	3.4	3.8	3.5	3.6	3.8	4.6	3.7	4.5	4.5	4.0	3.9	3.5	4.6
27-Feb	3.7	3.2	2.9	2.7	2.2	2.1	1.9	2.6	2.3	2.2	2.1	2.0	1.7	1.8	1.7	1.2	1.0	1.0	0.8	1.3	0.9	0.6	0.3	0.1	3.7
28-Feb	0.2	0.1	0.3	0.4	0.4	0.9	1.0	1.0	0.6	1.3	1.2	1.8	1.8	1.8	2.0	1.5	1.3	0.5	0.4	0.7	0.7	0.7	0.8	0.8	2.0
	3.7	3.8	3.9	3.8	3.5	3.5	3.5	3.8	3.2	3.1	3.1	3.0	3.5	3.8	3.8	4.2	3.9	4.6	4.1	4.5	4.5	4.0	3.9	3.7	
	Diurnal Maximum																								

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Vertical Wind Speed 75m (VW75) - km/h

Mannix - February 2026

Maximum Value: 2.0 km/h on Feb 22 20:00

Maximum Daily Average: 0.4 km/h on Feb 12

Minimum Value: -1.9 km/h on Feb 17 22:00

Minimum Daily Average: -1.2 km/h on Feb 17

Maximum Diurnal Average: 0.0 km/h at hour 8

Minimum Diurnal Average: -0.4 km/h at hour 23

Monthly Average: -0.17 km/h

Percentiles: P_1 = -1.7 P_{10} = -1.0 Q_1 = -0.4 Median = -0.1 Q_3 = 0.2 P_{90} = 0.4 P_{99} = 0.9

Hours in Service:	672
Hours of Data:	514
Hours of Missing Data:	158
Hours of Calibration:	0
Percent Operational Time:	76.5

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	-0.1	-0.2	-0.9	-0.9	-0.6	-0.3	-1.8	-0.7	-1.2	-0.7	-1.1	-1.3	-1.0	-1.2	-1.3	-1.2	-1.1	-1.1	-1.0	-1.2	-1.1	-0.8	-0.9	0.0
2-Feb	-0.7	-0.5	-0.4	-0.8	-0.3	-0.5	-0.4	-0.1	-0.2	0.2	0.3	0.3	0.4	0.1	0.2	0.2	0.0	0.0	0.1	-0.2	-0.3	-0.1	-0.8	-0.4	-0.2	0.4
3-Feb	0.1	-0.4	-0.6	-0.2	-0.1	0.1	-0.7	-0.3	-0.1	-0.3	-0.5	0.2	0.2	0.3	-0.1	-0.2	-0.3	-0.2	-0.5	-0.2	-0.6	-0.4	-0.6	-0.7	-0.2	0.3
4-Feb	0.1	UO	UO	0.5	0.7	0.2	0.3	0.5	0.6	0.6	0.3	0.6	0.7	0.5	0.5	0.4	0.5	0.3	-0.8	-0.8	-0.2	-0.5	-0.5	UO	0.2	0.7
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
11-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	0.5	0.6	0.1	0.2	0.2	0.2	-0.1	0.1	0.1	0.2	0.0	0.1	-0.1	--	0.6
12-Feb	0.0	0.2	0.3	0.7	0.4	0.4	0.6	0.0	0.1	0.3	0.4	0.3	0.4	0.4	0.2	0.6	0.4	0.7	0.8	0.7	0.3	0.0	0.4	0.5	0.4	0.8
13-Feb	0.3	0.3	0.6	0.6	0.5	0.8	0.9	0.3	0.3	0.5	0.4	0.3	0.2	0.4	0.1	0.4	0.2	0.1	0.1	0.1	-0.1	0.3	0.3	0.2	0.3	0.9
14-Feb	0.0	0.1	0.0	0.0	0.0	0.3	0.1	0.1	0.0	0.0	0.2	0.4	0.1	-0.2	-0.1	0.1	-0.2	0.1	-0.1	0.1	0.0	-0.1	0.1	-0.8	0.0	0.4
15-Feb	-0.2	-0.4	-0.2	-0.1	-0.3	-0.7	0.0	-0.3	-0.1	0.4	-0.6	-0.3	0.2	-0.1	0.2	0.2	0.2	-0.2	-0.4	-0.3	-0.4	-0.6	-0.5	-0.1	-0.2	0.4
16-Feb	-0.4	-0.2	-0.2	-0.2	-0.2	0.0	-0.1	-0.1	-0.1	0.0	0.0	-0.2	0.0	0.1	0.0	-0.2	-0.3	-0.6	-0.7	-0.8	-0.6	-0.7	-0.4	-0.3	-0.3	0.1
17-Feb	0.4	-0.2	-0.8	-0.7	-0.9	-1.2	-0.9	-0.8	-1.3	-1.4	-1.6	-1.6	-1.5	-1.4	-0.8	-1.3	-1.6	-1.5	-1.5	-1.7	-1.6	-1.9	-1.7	-1.8	-1.2	0.4
18-Feb	-1.6	-1.8	-1.2	-1.4	-1.2	-1.4	-1.3	-0.9	-1.2	-1.8	-1.5	-1.2	-1.2	-1.2	-1.0	-0.3	-0.1	-0.6	-0.4	0.0	0.0	-0.2	-0.2	0.0	-0.9	0.0
19-Feb	0.0	0.1	0.0	0.1	0.6	0.2	0.5	0.8	0.4	0.4	0.2	0.1	0.0	-0.3	-0.2	0.0	0.3	0.3	0.6	0.6	0.7	1.0	0.9	0.3	0.3	1.0
20-Feb	0.0	0.1	0.3	0.4	0.4	0.4	1.0	0.6	0.6	0.2	0.8	0.0	-0.1	-0.1	0.0	-0.1	-0.1	-0.3	-0.4	-0.7	-0.4	-0.4	-0.4	-0.2	0.1	1.0
21-Feb	0.2	0.1	-0.2	0.2	0.0	-0.1	-0.5	-0.3	-0.3	0.0	-0.6	-0.1	-0.2	-0.7	-0.3	-0.3	-0.6	-0.4	-0.4	-0.8	-0.5	-0.4	-1.2	-1.1	-0.3	0.2
22-Feb	-0.7	0.2	-0.3	0.1	-0.1	-0.2	-0.1	0.0	-0.1	0.0	0.0	0.2	0.1	-0.2	0.1	-0.1	-0.3	0.0	0.2	2.0	1.2	-1.1	-1.2	-1.2	-0.1	2.0
23-Feb	-1.3	-0.8	-0.7	-0.1	-0.4	-0.6	-0.1	0.0	0.0	0.1	-0.2	0.0	0.0	0.1	0.0	0.8	-0.3	-0.1	0.0	0.3	0.2	0.1	0.2	0.1	-0.1	0.8
24-Feb	-0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	-0.2	-0.4	-0.3	0.3	0.2	-0.5	0.1	0.0	0.0	-0.5	-0.6	-0.7	-0.6	-0.1	0.3
25-Feb	-0.8	-0.2	0.3	-0.3	-0.1	-0.3	-0.1	0.2	0.1	0.0	0.0	-0.1	-0.2	0.4	-0.2	-0.1	0.0	0.0	0.0	-0.3	-0.4	-0.8	-0.6	0.0	-0.1	0.4
26-Feb	-0.2	-0.5	-0.4	-0.2	-0.3	-0.1	0.0	0.2	-1.0	-0.5	-0.5	-0.6	-0.1	-0.9	-0.3	-0.5	-0.1	-0.9	-0.6	-1.5	-1.2	-0.6	-0.5	-0.4	-0.5	0.2
27-Feb	0.0	-0.6	-0.7	-1.1	-1.0	-0.9	-0.4	-0.6	-0.4	0.1	0.5	-0.2	-0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.4	-0.3	-0.4	-0.1	-0.1	-0.2	0.5
28-Feb	0.1	0.0	0.0	0.1	0.5	0.5	0.8	0.8	0.2	0.3	0.1	-0.2	0.4	0.3	0.1	0.3	0.3	0.1	0.5	0.5	0.9	1.0	0.8	0.5	0.4	1.0
	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	0.0	-0.2	-0.1	-0.2	-0.1	-0.1	-0.2	-0.1	0.0	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.4	-0.3	Diurnal Average	
	0.4	0.3	0.6	0.7	0.7	0.8	1.0	0.8	0.6	0.6	0.8	0.6	0.7	0.5	0.5	0.8	0.5	0.7	0.8	2.0	1.2	1.0	0.9	0.5	Diurnal Maximum	

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Vertical Wind Speed 75m (VW75) - km/h

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 4.3 km/h on Feb 26 18:00

Minimum Value: 0.1 km/h on Feb 28 02:00

Percentiles: P_1 = 0.2 P_{10} = 0.4 Q_1 = 0.7 Median = 1.3 Q_3 = 1.8 P_{90} = 2.6 P_{99} = 3.8

Hours in Service:	672
Hours of Data:	514
Hours of Missing Data:	158
Hours of Calibration:	0
Percent Operational Time:	76.5

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1.5	1.7	1.4	1.4	1.0	1.0	0.9	2.2	1.9	2.0	2.1	2.0	2.1	1.9	2.6	2.3	2.3	2.5	2.4	2.2	2.1	2.1	1.7	2.0	2.6
2-Feb	1.9	2.1	1.8	1.2	0.8	0.9	1.0	0.4	0.6	0.8	0.6	1.0	0.9	1.1	0.8	0.9	0.4	0.2	0.3	0.4	0.9	1.3	1.3	1.4	2.1
3-Feb	1.2	1.5	1.5	1.5	1.1	1.4	1.1	1.0	1.3	0.9	0.9	0.9	0.9	1.3	1.0	0.7	0.7	0.9	0.8	1.2	1.0	1.3	1.4	1.4	1.5
4-Feb	1.7	UO	UO	1.7	1.9	0.7	1.1	2.3	2.2	2.4	2.6	2.7	2.3	2.0	1.6	1.5	1.2	1.3	1.6	1.6	1.5	1.4	1.4	UO	2.7
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
11-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	0.8	0.8	0.6	1.1	1.0	0.6	0.5	1.0	0.9	0.6	0.5	0.6	0.5	1.1
12-Feb	0.6	0.9	1.3	1.4	1.3	1.6	1.8	1.7	1.5	0.7	0.6	0.7	0.9	1.5	1.2	1.1	1.1	0.6	1.6	1.9	1.9	1.5	2.0	1.9	2.0
13-Feb	1.8	1.9	2.5	2.6	2.9	3.0	2.8	1.8	1.5	2.2	2.6	1.9	1.8	1.5	1.5	1.3	1.0	0.5	0.4	0.5	0.6	0.7	0.4	0.2	3.0
14-Feb	0.4	0.4	0.7	0.7	0.7	0.7	0.6	0.8	0.7	0.8	0.4	0.7	0.6	0.6	0.7	0.5	0.5	0.6	0.6	0.7	0.3	0.5	0.6	1.4	1.4
15-Feb	0.6	1.6	2.1	1.7	1.7	1.8	1.7	1.6	1.8	2.1	1.8	1.9	2.1	2.1	1.7	1.5	1.0	1.6	1.8	1.8	1.9	1.3	1.0	0.9	2.1
16-Feb	0.6	0.8	0.5	0.3	0.4	0.5	0.4	0.2	0.3	0.3	1.0	1.3	1.1	1.4	1.8	1.8	1.6	1.6	2.2	1.7	2.2	1.9	2.1	1.8	2.2
17-Feb	2.3	2.6	2.5	2.2	2.1	2.5	2.8	2.9	2.4	2.3	2.2	2.3	2.7	3.0	3.5	3.8	3.7	3.7	3.7	3.4	3.2	3.7	3.2	3.5	3.8
18-Feb	3.3	3.4	3.6	3.4	3.4	3.3	3.4	3.5	3.1	2.8	2.8	2.6	2.4	2.2	2.1	2.1	2.3	1.9	1.5	1.3	0.8	0.6	0.5	0.3	3.6
19-Feb	0.1	0.1	0.2	0.3	0.4	0.4	0.7	0.6	0.6	0.7	1.1	1.6	1.6	1.5	1.5	1.3	1.1	0.6	0.3	0.4	0.6	0.5	0.4	0.5	1.6
20-Feb	0.4	0.4	0.4	0.5	0.4	0.6	0.3	0.4	0.3	0.4	0.9	0.6	1.1	0.7	1.2	0.8	1.0	1.2	1.4	1.5	1.7	1.5	1.7	1.1	1.7
21-Feb	1.2	1.1	1.2	1.2	1.3	1.5	1.5	1.3	1.4	1.6	1.3	1.6	1.5	1.9	2.3	1.9	1.6	1.8	1.6	1.7	1.9	1.6	1.6	1.6	2.3
22-Feb	1.4	1.8	1.4	1.6	1.6	1.5	1.6	1.2	1.2	1.2	1.1	1.3	1.2	1.2	1.1	0.7	0.6	1.4	2.8	2.9	2.9	2.2	2.2	1.9	2.9
23-Feb	1.7	1.7	1.8	1.6	1.2	1.1	0.7	0.4	0.6	1.1	1.2	0.9	0.9	1.0	1.1	1.1	0.8	0.2	0.1	0.2	0.3	0.2	0.3	0.4	1.8
24-Feb	0.2	0.2	0.2	0.2	0.4	0.9	0.4	0.5	0.4	0.4	0.4	0.9	1.3	1.6	1.5	1.3	1.1	0.8	0.4	0.4	0.8	0.8	1.3	1.5	1.6
25-Feb	1.4	1.7	1.2	0.9	0.5	0.3	0.4	0.6	0.4	0.9	1.1	1.4	1.4	1.5	1.2	0.9	0.7	0.6	0.6	1.3	1.5	1.3	1.2	1.4	1.7
26-Feb	1.2	1.4	1.5	1.3	1.4	1.2	1.3	1.6	1.0	1.6	2.1	2.4	3.2	3.3	3.6	3.2	3.6	4.3	3.4	4.0	4.0	3.8	3.9	3.5	4.3
27-Feb	3.8	2.9	2.4	2.2	2.0	1.8	1.8	2.3	2.4	2.2	2.3	2.0	2.0	1.9	1.9	1.4	1.3	1.0	0.7	1.1	0.3	0.2	0.2	0.2	3.8
28-Feb	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7	1.0	1.7	1.4	1.5	1.6	1.3	1.1	0.5	0.4	0.5	0.6	0.7	0.7	0.8	1.7
	3.8	3.4	3.6	3.4	3.4	3.3	3.4	3.5	3.1	2.8	2.8	2.7	3.2	3.3	3.6	3.8	3.7	4.3	3.7	4.0	4.0	3.8	3.9	3.5	
	Diurnal Maximum																								

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Vertical Wind Speed 90m (VW90) - km/h

Mannix - February 2026

Maximum Value: 2.0 km/h on Feb 22 20:00

Maximum Daily Average: 0.4 km/h on Feb 15

Minimum Value: -1.5 km/h on Feb 1 09:00

Minimum Daily Average: -0.3 km/h on Feb 1

Maximum Diurnal Average: 0.3 km/h at hour 8

Minimum Diurnal Average: 0.1 km/h at hour 23

Monthly Average: 0.20 km/h

Percentiles: P_1 = -1.0 P_{10} = -0.3 Q_1 = 0.0 Median = 0.2 Q_3 = 0.4 P_{90} = 0.7 P_{99} = 1.1

Hours in Service:	672
Hours of Data:	513
Hours of Missing Data:	159
Hours of Calibration:	0
Percent Operational Time:	76.3

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.7	0.6	0.7	0.3	-0.4	-0.4	-0.2	0.1	-1.5	0.1	-0.7	0.2	-0.5	-0.7	-1.0	-0.5	-1.1	-1.1	-0.7	-0.3	-0.4	-0.6	-0.3	0.2	-0.3	0.7
2-Feb	0.4	0.5	0.4	0.2	0.5	0.6	0.7	0.7	0.9	0.6	0.6	0.5	0.3	0.2	0.4	0.4	0.1	0.1	0.2	-0.1	0.1	0.5	-0.4	0.2	0.4	0.9
3-Feb	0.5	0.3	0.2	0.4	0.3	0.6	-0.3	0.2	0.4	0.0	-0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.6	0.8	0.9	0.8	0.9	0.8	0.4	0.9
4-Feb	0.7	0.9	0.9	1.1	0.4	0.0	-0.1	0.1	0.2	0.1	0.0	0.3	0.4	0.3	0.4	0.1	0.3	0.4	0.3	0.1	0.8	0.2	UO	UO	0.3	1.1
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
11-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	0.0	0.0	0.1	0.0	-0.2	-0.1	0.0	0.0	0.0	0.1	0.0	--	0.1
12-Feb	0.0	0.1	0.1	0.5	0.3	0.4	0.6	0.0	0.0	0.3	0.3	0.4	0.5	0.4	0.0	0.4	0.0	0.5	0.3	0.2	-0.3	-0.4	0.0	0.0	0.2	0.6
13-Feb	-0.2	-0.3	-0.1	-0.1	-0.2	0.1	0.4	0.1	-0.2	0.1	-0.1	0.1	-0.2	0.2	-0.2	0.1	0.0	0.0	0.1	0.1	-0.2	0.3	0.3	0.2	0.0	0.4
14-Feb	0.1	0.1	0.1	-0.1	-0.1	0.2	0.0	0.1	0.1	0.1	0.2	0.6	0.3	0.2	0.1	0.2	0.1	0.2	0.3	0.5	0.2	0.2	0.2	-0.2	0.2	0.6
15-Feb	0.2	0.1	0.6	0.7	0.6	0.3	0.7	0.2	0.6	1.1	0.0	0.2	0.7	0.4	0.3	0.3	0.5	0.4	0.4	0.7	0.6	0.3	0.2	0.4	0.4	1.1
16-Feb	0.1	0.2	0.0	0.0	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	-0.1	0.3	0.4	0.4	0.3	0.7	0.6	0.7	1.0	0.3	1.0
17-Feb	1.2	0.7	0.4	0.3	0.2	0.0	0.3	0.4	-0.2	-0.2	-0.6	-0.7	-0.3	-0.1	0.3	0.1	-0.3	-0.3	-0.2	-0.5	-0.5	-0.7	-0.6	-0.6	-0.1	1.2
18-Feb	-0.4	-0.7	0.0	-0.1	-0.1	-0.2	0.0	0.4	-0.1	-0.8	-0.4	-0.2	-0.4	-0.3	-0.1	0.6	0.4	-0.4	-0.1	0.1	0.1	0.1	0.1	0.1	-0.1	0.6
19-Feb	0.1	0.0	0.0	0.1	0.3	0.0	0.3	0.7	0.3	0.2	0.4	0.7	0.4	0.4	0.3	0.3	0.3	0.1	0.3	0.6	0.4	0.9	0.5	0.0	0.3	0.9
20-Feb	-0.3	-0.1	0.1	0.2	0.2	0.3	1.1	0.5	0.5	0.2	0.9	0.2	0.1	0.1	0.0	-0.1	0.1	0.3	0.6	0.4	0.5	0.1	0.2	0.5	0.3	1.1
21-Feb	1.0	0.9	0.2	0.6	0.7	0.6	0.3	0.6	0.2	0.6	0.0	0.2	0.0	-0.1	0.7	0.6	0.2	0.4	0.5	0.2	0.6	0.8	-0.3	-0.2	0.4	1.0
22-Feb	0.2	0.9	0.5	1.0	0.5	0.1	0.4	0.3	0.2	0.3	0.1	0.3	0.2	0.0	0.0	0.0	0.0	0.4	0.3	2.0	1.3	-1.0	-0.9	-1.1	0.3	2.0
23-Feb	-1.0	-0.2	0.1	0.2	-0.1	-0.4	0.0	0.1	0.2	0.2	-0.2	0.1	0.2	0.4	0.3	1.0	-0.3	0.0	0.0	0.2	0.1	0.2	0.2	0.3	0.1	1.0
24-Feb	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.2	0.0	-0.1	0.0	0.6	0.3	-0.2	0.5	0.3	0.5	0.8	0.8	-0.4	0.0	0.2	0.8
25-Feb	-0.5	-0.2	0.5	-0.1	0.2	0.0	0.2	0.4	0.3	0.2	0.2	0.1	0.1	0.5	0.0	0.2	0.2	0.2	0.3	0.6	0.5	0.0	0.2	0.9	0.2	0.9
26-Feb	0.6	0.4	0.4	0.7	0.2	0.4	0.5	0.7	-0.4	0.1	0.2	0.3	0.9	0.2	0.4	0.4	0.6	-0.3	0.0	-0.9	-0.8	-0.3	0.2	0.2	0.2	0.9
27-Feb	0.6	0.7	0.6	0.1	0.1	0.0	0.6	0.3	0.3	0.7	0.8	-0.1	0.0	0.1	0.3	0.1	0.2	0.0	0.7	1.1	0.3	0.1	0.3	0.1	0.3	1.1
28-Feb	0.2	0.1	0.0	0.3	0.2	0.4	0.8	0.7	0.9	0.2	0.3	0.8	0.8	0.6	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.9
	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	Diurnal Average	
	1.2	0.9	0.9	1.1	0.7	0.6	1.1	0.7	0.9	1.1	0.9	0.8	0.9	0.6	0.7	1.0	0.6	0.5	0.7	2.0	1.3	0.9	0.9	1.0	Diurnal Maximum	

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Vertical Wind Speed 90m (VW90) - km/h

Mannix - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 4.2 km/h on Feb 26 18:00

Minimum Value: 0.1 km/h on Feb 19 02:00

Percentiles: P_1 = 0.2 P_{10} = 0.4 Q_1 = 0.7 Median = 1.2 Q_3 = 1.9 P_{90} = 2.6 P_{99} = 3.9

Hours in Service:	672
Hours of Data:	513
Hours of Missing Data:	159
Hours of Calibration:	0
Percent Operational Time:	76.3

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1.4	1.6	1.3	1.2	0.8	0.8	0.9	2.3	1.8	1.9	2.0	2.0	2.1	1.9	2.6	2.4	2.5	2.5	2.5	2.1	2.1	2.1	1.7	1.8	2.6
2-Feb	1.9	2.1	1.9	0.9	0.8	0.9	0.9	0.3	0.6	0.7	0.6	1.1	0.9	1.0	0.8	0.9	0.4	0.2	0.3	0.4	0.9	1.3	1.3	1.3	2.1
3-Feb	1.2	1.6	1.4	1.5	1.2	1.4	1.0	0.9	1.3	0.9	0.9	0.8	0.9	1.3	1.0	0.6	0.5	0.7	0.7	1.1	1.0	1.2	1.3	1.4	1.6
4-Feb	1.7	1.5	1.8	1.9	2.2	0.7	1.2	2.3	2.3	2.5	2.7	2.7	2.3	2.0	1.7	1.5	1.3	1.3	1.5	1.7	1.5	1.1	UO	UO	2.7
5-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
7-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
11-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	0.7	1.1	0.9	0.6	0.5	1.0	0.9	0.5	0.5	0.6	0.5	1.1
12-Feb	0.6	1.0	1.4	1.6	1.4	1.7	1.9	1.7	1.6	0.8	0.7	0.5	0.9	1.5	1.2	1.1	1.1	0.6	1.5	1.9	1.9	1.5	2.1	1.9	2.1
13-Feb	1.8	1.9	2.6	2.7	3.1	3.0	2.9	1.9	1.5	2.3	2.6	2.0	1.8	1.6	1.5	1.3	1.0	0.5	0.5	0.5	0.6	0.8	0.3	0.2	3.1
14-Feb	0.4	0.5	0.7	0.7	0.6	0.8	0.7	0.9	0.7	0.9	0.4	0.6	0.5	0.4	0.5	0.4	0.3	0.6	0.7	0.7	0.3	0.6	0.7	1.4	1.4
15-Feb	0.6	1.7	1.9	1.8	1.7	1.8	1.7	1.5	1.7	2.1	1.7	1.8	2.1	2.1	1.8	1.5	1.1	1.6	1.5	1.5	1.6	0.9	0.9	0.8	2.1
16-Feb	0.7	0.7	0.5	0.3	0.4	0.6	0.4	0.3	0.3	0.3	0.8	1.1	1.2	1.4	1.7	1.8	1.6	1.6	2.2	1.9	2.3	2.0	2.1	1.7	2.3
17-Feb	2.2	2.7	2.5	2.3	2.2	2.4	2.9	2.9	2.5	2.4	2.3	2.3	2.6	3.0	3.5	4.0	3.8	3.9	3.9	3.6	3.3	3.9	3.4	3.7	4.0
18-Feb	3.6	3.5	3.9	3.5	3.6	3.5	3.7	3.8	3.1	3.0	2.9	2.8	2.4	2.4	2.2	2.2	2.3	1.9	1.6	1.2	0.9	0.6	0.6	0.3	3.9
19-Feb	0.2	0.1	0.2	0.2	0.4	0.4	0.6	0.6	0.6	0.5	0.9	1.4	1.4	1.5	1.4	1.2	1.0	0.6	0.2	0.3	0.6	0.6	0.4	0.4	1.5
20-Feb	0.3	0.2	0.3	0.5	0.4	0.5	0.5	0.3	0.3	0.4	0.6	0.6	0.9	0.6	1.1	0.9	1.0	1.2	1.5	1.6	1.8	1.4	1.5	1.1	1.8
21-Feb	1.2	1.1	1.1	1.2	1.4	1.5	1.4	1.3	1.3	1.6	1.3	1.5	1.5	1.9	2.3	1.8	1.5	1.7	1.5	1.6	1.9	1.8	1.8	1.7	2.3
22-Feb	1.4	1.9	1.4	1.8	1.7	1.5	1.6	1.2	1.1	1.0	1.1	1.2	1.1	1.2	0.9	0.7	0.7	1.3	2.1	2.7	3.1	2.2	2.3	1.9	3.1
23-Feb	1.6	1.5	1.6	1.5	1.1	1.0	0.7	0.5	0.5	1.1	1.1	0.8	0.9	0.9	1.1	1.1	0.8	0.3	0.1	0.2	0.3	0.3	0.3	0.4	1.6
24-Feb	0.2	0.3	0.3	0.2	0.5	0.9	0.4	0.4	0.5	0.4	0.4	0.8	1.2	1.6	1.3	1.1	0.9	0.9	0.4	0.3	0.6	0.8	1.1	1.2	1.6
25-Feb	1.2	1.8	1.3	0.8	0.5	0.4	0.3	0.6	0.4	0.8	1.0	1.4	1.3	1.5	1.2	0.8	0.6	0.5	0.7	1.1	1.4	1.3	1.2	1.4	1.8
26-Feb	1.2	1.3	1.5	1.4	1.4	1.2	1.2	1.6	1.0	1.5	2.0	2.4	3.4	3.3	3.6	3.2	3.7	4.2	3.5	3.8	3.8	3.5	3.9	3.5	4.2
27-Feb	3.8	2.9	2.4	2.0	2.1	1.8	1.9	2.2	2.2	2.1	2.5	2.1	2.1	1.9	1.9	1.4	1.3	0.9	0.7	0.9	0.2	0.2	0.3	0.2	3.8
28-Feb	0.2	0.1	0.1	0.2	0.2	0.3	0.6	0.6	0.6	0.8	1.0	1.4	1.2	1.4	1.5	1.3	1.1	0.5	0.4	0.4	0.6	0.7	0.6	0.8	1.5
	3.8	3.5	3.9	3.5	3.6	3.5	3.7	3.8	3.1	3.0	2.9	2.8	3.4	3.3	3.6	4.0	3.8	4.2	3.9	3.8	3.8	3.9	3.9	3.7	
	Diurnal Maximum																								

UO - Unstable Operation

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS06
PATRICIA MCINNES
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - PATRICIA McINNES (AMS06)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	640	32	32	100	-	-	10.2	0	2.9	0
TRS (ppb) Average	638	34	34	100	2.9	0	2.5	0	0.5	0
THC (ppm) Average	637	32	35	99.55	-	-	3	-	2.1	-
NMHC(ppm) Average	637	32	35	99.55	-	-	0.082	-	0.006	-
CH4(ppm) Average	637	32	35	99.55	-	-	3	-	2.1	-
O3 (ppb) Average	640	32	32	100	-	-	46.8	0	43.7	-
NO2 (ppb) Average	638	34	34	100	-	-	47.7	0	19.9	-
NO (ppb) Average	638	34	34	100	-	-	57.4	-	13.9	-
NOX (ppb) Average	638	34	34	100	-	-	105.1	-	32.3	-
NH3 (ppb) Average	602	37	70	95.09	-	-	0	0	0	-
PM2.5 (ug/m3) Average	671	1	1	100	-	-	28.3	0	9.3	0
Temperature 2 m (C) Average	672	0	0	100	-	-	10.6	-	3	-
Relative Humidity (%) Average	672	0	0	100	-	-	97.2	-	88.1	-
Wind Speed 10 m (km/h) Average	659	0	13	98.07	-	-	33	-	27	-
Wind Direction 10 m (deg) Average	659	0	13	98.07	-	-	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - PATRICIA McINNES (AMS06)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	640	0.92	1.5	-	0	0	0.1	0.3	1	2.5	10.2
TRS (ppb) Average	638	0.25	0.2	-	0.1	0.1	0.1	0.2	0.3	0.4	2.5
THC (ppm) Average	637	2.03	0.1	-	1.9	2	2	2	2.1	2.1	3
NMHC(ppm) Average	637	0.001	0.005	-	0	0	0	0	0	0	0.082
CH4(ppm) Average	637	2.03	0.1	-	1.9	2	2	2	2.1	2.1	3
O3 (ppb) Average	640	21.29	11.1	-	0.4	4.8	13.4	22.4	28.3	34.9	46.8
NO2 (ppb) Average	638	9.42	8.7	-	0.4	1.9	3.7	6.3	12.3	21.7	47.7
NO (ppb) Average	638	3.93	6.8	-	0	0.1	0.4	1.3	4.1	11.7	57.4
NOX (ppb) Average	638	13.35	14.2	-	0.6	2.9	4.6	8.1	16.6	29.9	105.1
NH3 (ppb) Average	602	0	0	-	0	0	0	0	0	0	0
PM2.5 (ug/m3) Average	671	4.57	3.4	-	0.7	2	2.7	3.6	5.2	8.5	28.3
Temperature 2 m (C) Average	672	-14.57	10.4	-	-41.7	-28.7	-21.6	-13.8	-8.1	-0.7	10.6
Relative Humidity (%) Average	672	74.61	12	-	34	55.8	68.4	76.6	83.8	87.6	97.2
Wind Speed 10 m (km/h) Average	659	10.7	6	-	0	4	6	10	14	19	33
Wind Direction 10 m (deg) Average	659	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - PATRICIA MCINNES (AMS06)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
THC/NMHC/CH4	18 Feb 2026 13:00	18 Feb 2026 15:00	3	Maintenance - replaced support gas cylinder
O3	01 Feb 2026 06:00	28 Feb 2026 03:00	33	Stabilization after daily span
Wind Speed, Wind Direction	05 Feb 2026 03:00	05 Feb 2026 12:00	10	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	05 Feb 2026 13:00	05 Feb 2026 15:00	3	Maintenance - to defreeze sensor

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Patricia McInnes - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 10.2 ppb on Feb 8 17:00

Maximum Daily Average: 2.9 ppb on Feb 26

Minimum Value: 0.0 ppb on Feb 6 17:00

Minimum Daily Average: 0.0 ppb on Feb 13

Maximum Diurnal Average: 1.4 ppb at hour 15

Minimum Diurnal Average: 0.6 ppb at hour 5

Monthly Average: 0.92 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.3 Q_3 = 1.0 P_{90} = 2.5 P_{99} = 6.7

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	Z	2.6	0.8	0.7	1.2	0.7	0.5	0.5	0.5	0.6	0.7	0.5	0.6	0.5	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.5	2.6
2-Feb	0.2	0.2	Z	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.4	0.2	0.1	0.2	0.1	0.2	0.3	0.5	0.4	0.3	0.5
3-Feb	0.2	0.2	0.2	Z	0.2	0.5	0.9	1.0	0.2	0.1	0.2	0.3	0.5	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.4	1.0
4-Feb	0.4	0.4	0.5	0.6	Z	0.5	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.3	0.2	4.5	6.6	3.9	4.7	1.8	0.5	1.2	6.6
5-Feb	0.2	0.3	0.9	6.5	2.1	Z	2.9	2.2	2.5	4.4	1.1	2.3	2.4	1.8	1.8	1.9	1.7	3.9	5.8	6.8	4.5	1.8	1.0	0.8	2.6	6.8
6-Feb	Z	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	C	C	C	C	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5
7-Feb	0.0	Z	0.0	0.0	0.1	0.1	0.4	4.3	0.7	1.1	5.2	6.7	2.9	3.0	4.1	0.4	1.5	1.3	2.2	1.5	1.0	1.5	1.4	1.0	1.7	6.7
8-Feb	0.9	0.9	Z	1.2	0.7	0.8	0.7	1.0	1.0	1.0	2.4	3.8	2.1	3.8	4.0	1.8	10.2	2.8	1.5	0.8	0.7	0.6	0.6	1.5	1.9	10.2
9-Feb	2.0	1.9	1.3	Z	0.6	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.5	0.8	1.1	0.8	1.2	3.0	2.0	1.1	1.9	6.5	3.2	1.3	6.5
10-Feb	2.0	2.4	2.0	2.0	Z	0.6	0.5	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.3	0.5	0.5	0.3	0.4	0.5	0.2	0.2	0.1	0.1	0.7	2.4
11-Feb	0.1	0.1	0.0	0.1	0.2	Z	0.3	0.2	0.1	0.4	0.3	0.4	0.3	0.2	0.3	0.2	0.3	0.2	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.5
12-Feb	Z	0.2	0.2	0.2	0.1	0.0	0.2	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.3	0.3	0.2	0.2	0.2	0.1	0.3	0.2	0.2	0.1	0.2	0.3
13-Feb	0.1	Z	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14-Feb	0.0	0.0	Z	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	0.1	0.1	0.0	1.1	3.1	2.3	1.5	1.1	0.4	3.1
15-Feb	2.1	2.6	2.2	Z	1.5	0.7	0.3	0.8	1.0	0.6	0.9	3.2	0.8	4.3	6.7	6.5	7.6	2.0	1.3	0.2	0.0	0.0	0.0	0.0	2.0	7.6
16-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.1	0.3	0.3	0.4	0.2	0.1	0.3	0.8	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.8
17-Feb	0.2	2.4	0.8	0.0	0.2	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.4
18-Feb	Z	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.4	0.3	1.0	0.9	1.9	5.9	5.2	6.3	2.9	0.5	0.3	0.3	0.6	0.4	0.2	0.1	1.2	6.3
19-Feb	0.1	Z	0.3	0.4	0.8	1.4	1.4	1.1	0.8	0.6	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.1	0.2	0.1	0.0	0.4	1.4
20-Feb	0.0	0.0	Z	0.2	0.2	0.1	0.1	0.2	0.3	0.1	0.2	0.3	0.4	0.5	0.9	1.0	0.8	6.7	5.3	1.5	1.2	2.0	2.1	2.0	1.1	6.7
21-Feb	1.9	2.4	1.6	Z	1.7	1.7	1.7	2.6	1.2	1.3	1.6	1.3	0.5	0.6	0.5	0.2	0.2	0.3	0.2	0.1	0.2	0.1	0.3	0.8	1.0	2.6
22-Feb	0.2	0.9	1.6	0.7	Z	2.0	1.4	1.5	1.5	2.0	1.5	1.7	1.9	2.0	1.6	1.5	1.2	0.8	0.6	0.1	0.0	0.1	0.0	0.0	1.1	2.0
23-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3
24-Feb	Z	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.0	0.0	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.1	0.3
25-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.2	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	1.5	2.1	3.4	4.2	0.7	4.2
26-Feb	4.8	9.4	Z	4.8	4.0	4.4	2.8	2.5	4.0	7.1	5.0	4.4	3.4	3.7	3.0	1.6	1.1	0.4	0.2	0.0	0.1	0.0	0.0	0.0	2.9	9.4
27-Feb	0.7	1.6	0.1	Z	0.0	0.2	1.3	0.5	0.3	0.0	2.1	6.8	3.5	3.8	5.8	8.7	3.2	1.2	1.8	3.2	2.6	1.6	1.0	0.6	2.2	8.7
28-Feb	0.3	0.3	0.2	0.1	Z	1.0	1.2	1.4	1.1	1.1	1.0	0.9	0.9	0.8	0.6	0.7	0.9	0.7	0.6	0.7	0.4	0.4	0.4	0.6	0.7	1.4
	0.7	1.2	0.7	0.8	0.6	0.7	0.7	0.8	0.6	0.8	1.0	1.3	0.9	1.3	1.4	1.3	1.3	0.9	1.1	1.0	0.8	0.8	0.8	0.6	Diurnal Average	
	4.8	9.4	2.6	6.5	4.0	4.4	2.9	4.3	4.0	7.1	5.2	6.8	3.5	5.9	6.7	8.7	10.2	6.7	5.8	6.8	4.5	4.7	6.5	4.2	Diurnal Maximum	

Z - zerospan C - Calibration

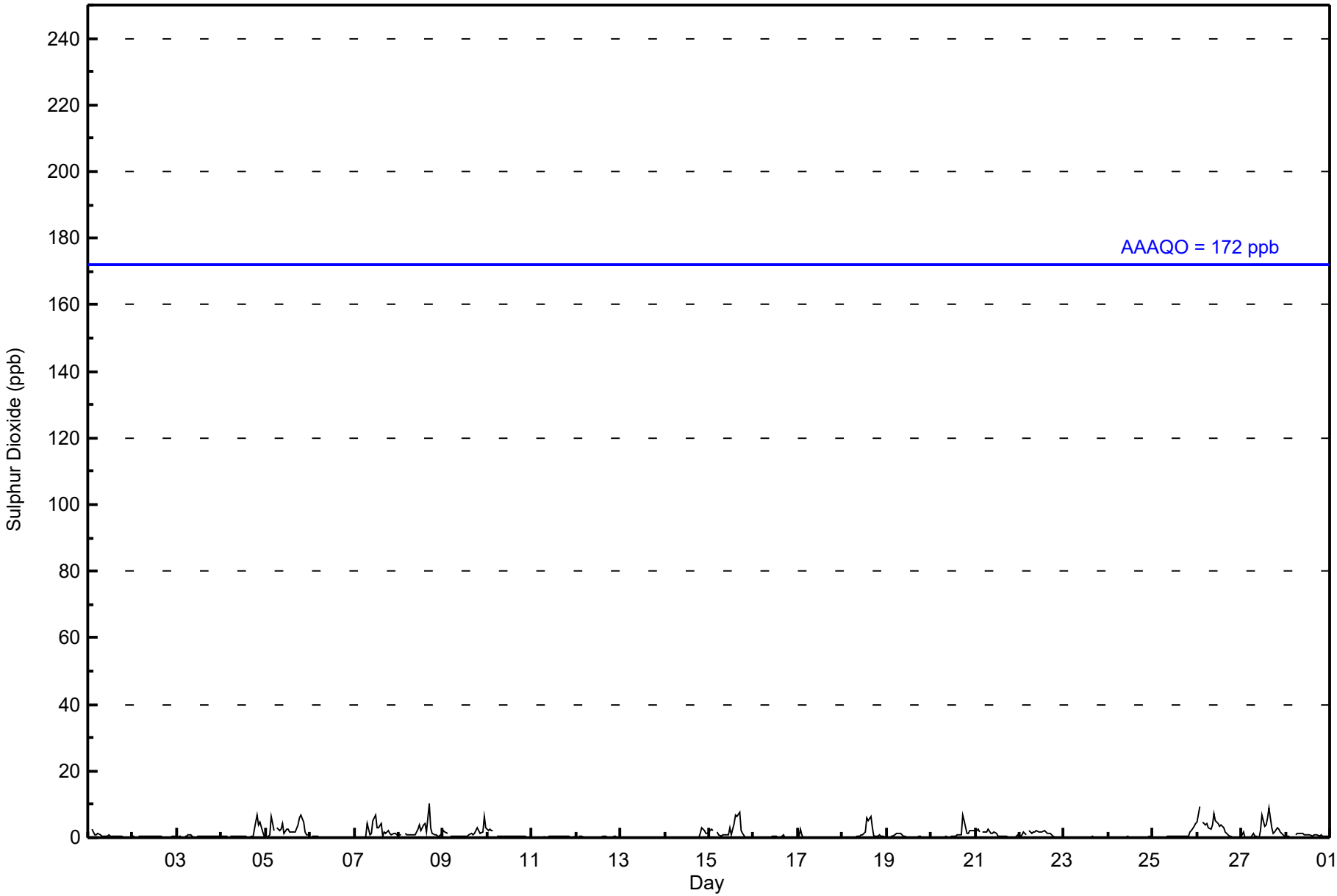
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Patricia McInnes - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	640	100.00	100.00
11 - 20	0	0.00	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Patricia McInnes - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	189	21	7	10	15	55	56	31	38	32	36	42	10	8	13	65	628
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	189	21	7	10	15	55	56	31	38	32	36	42	10	8	13	65	628

Total Number of Valid Hours: 628

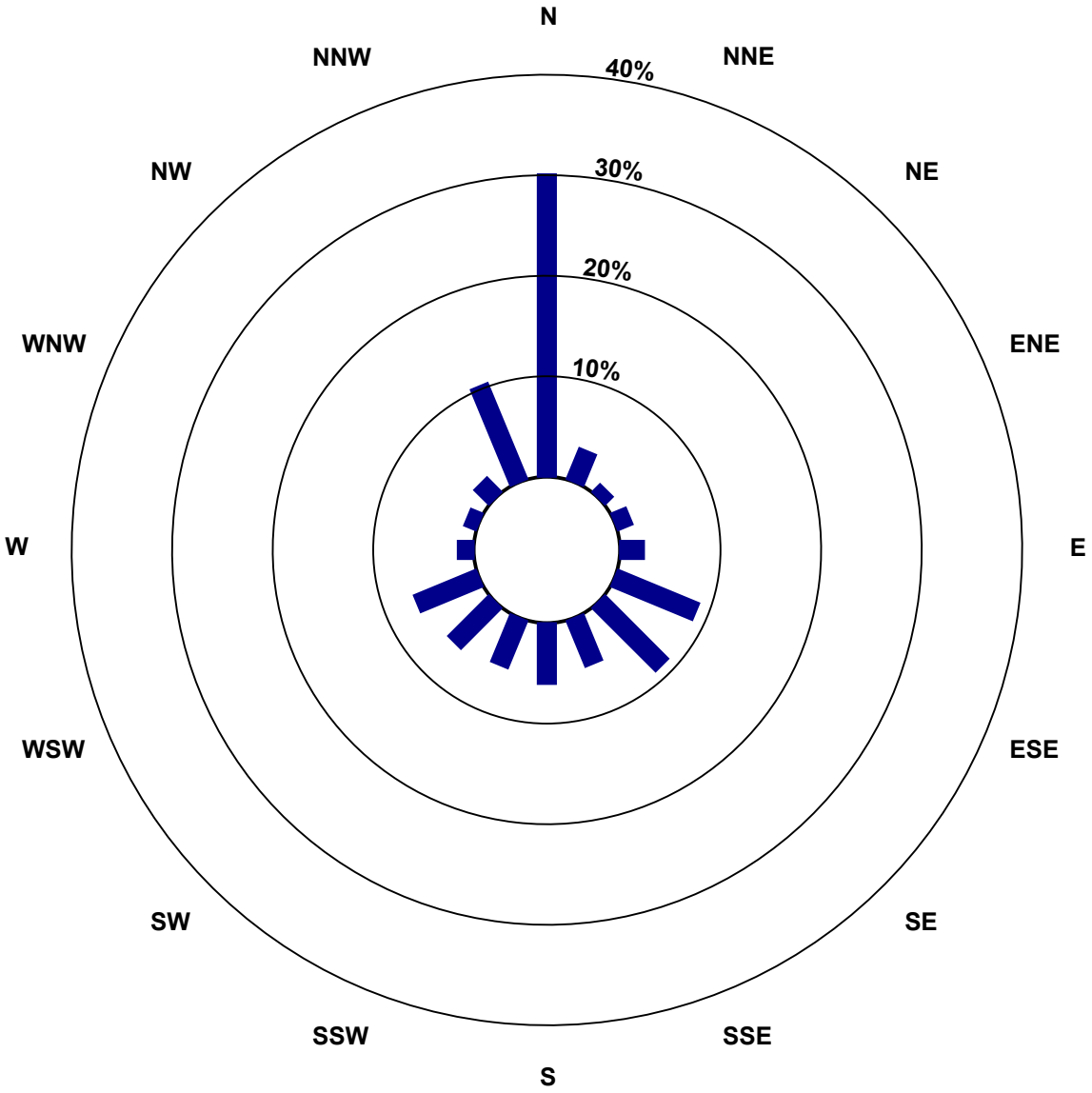
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Patricia McInnes



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

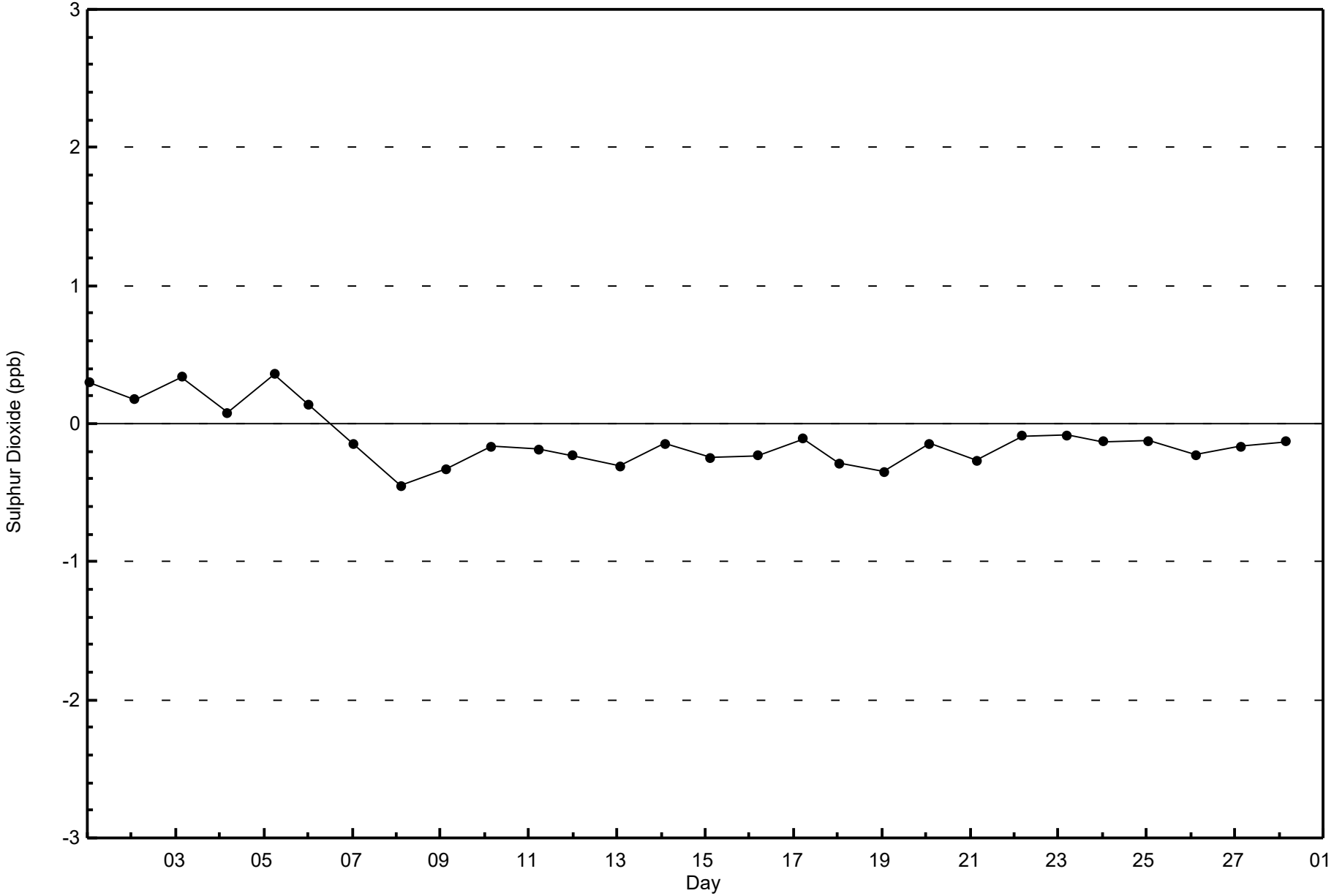
Total Number of Valid Hours: 628

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Patricia McInnes - February 2026

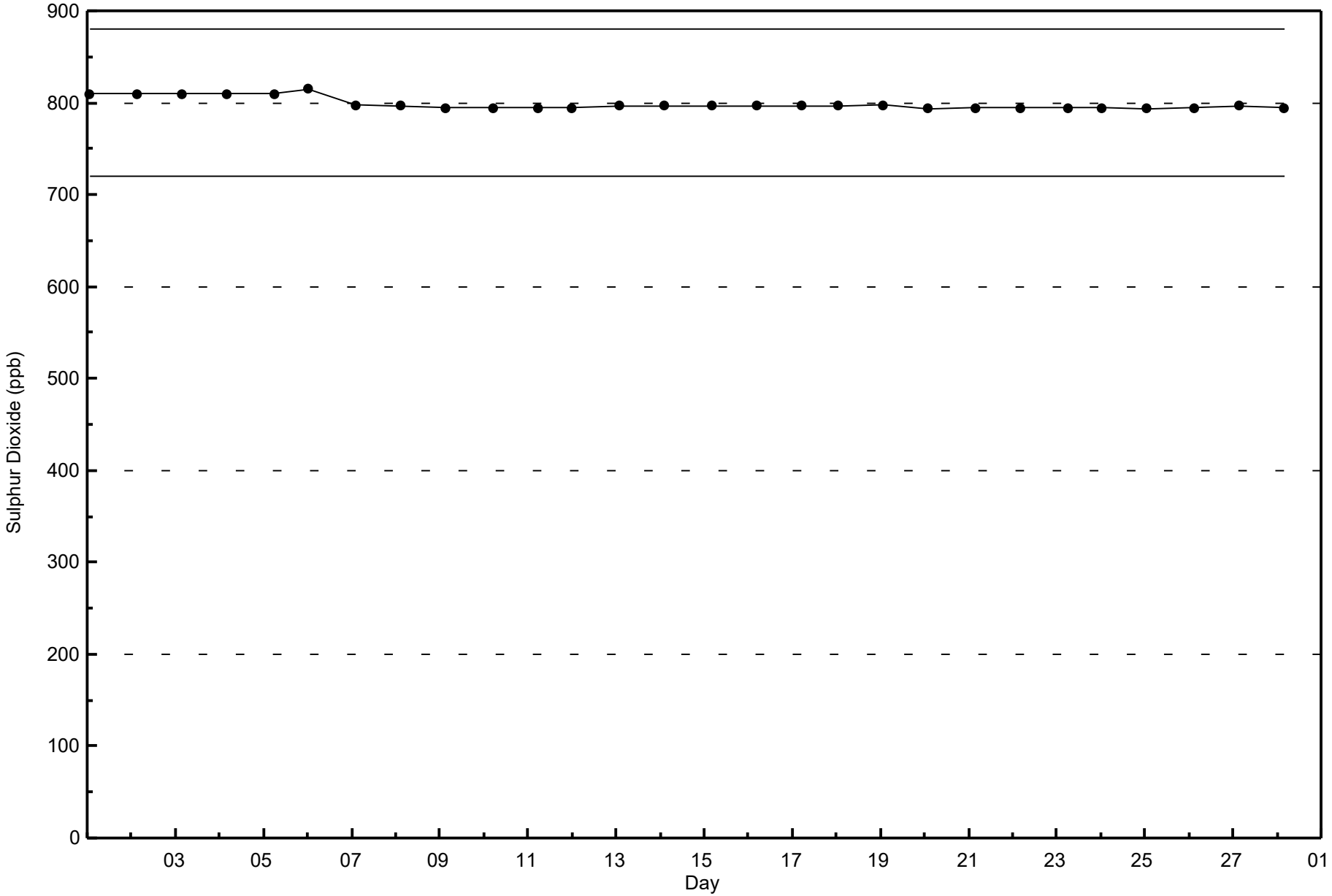


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Patricia McInnes - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Patricia McInnes - February 2026

Number of Exceedences (AAAQG): 30-Min: 0

Maximum Value: 2.9 ppb on Feb 14 21:00

Maximum Daily Average: 0.5 ppb on Feb 14

Minimum Value: 0.1 ppb on Feb 12 22:00

Minimum Daily Average: 0.1 ppb on Feb 12

Maximum Diurnal Average: 0.3 ppb at hour 22

Minimum Diurnal Average: 0.2 ppb at hour 13

Monthly Average: 0.25 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.1 Median = 0.2 Q_3 = 0.3 P_{90} = 0.4 P_{99} = 1.4

Periods in Service:	1344
Periods of Valid Data:	1276
Periods of Invalid Data:	68
Periods of Calibration:	68
Percent Operational Time:	100.0

Period Ending At (MST)

Day	00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.2	0.1	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
2-Feb	0.1	0.1	0.1	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.5	0.4	0.4	0.2	0.7
	0.1	0.1	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.7	0.4	0.4		
3-Feb	0.4	0.3	0.3	0.3	Z	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.4
	0.3	0.3	0.3	0.3	SP	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2		
4-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.6	0.5	0.3	0.3	0.2	0.6
	0.2	0.2	0.2	0.2	0.1	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.5	0.4	0.5	0.2	0.2		
5-Feb	Z	0.4	0.3	0.5	0.3	0.3	0.5	0.4	0.3	0.3	C	C	C	C	C	C	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	--	0.5
	SP	0.3	0.4	0.5	0.3	0.4	0.4	0.4	0.4	0.3	C	C	C	C	C	C	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.3		
6-Feb	0.3	Z	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.4
	0.3	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
7-Feb	0.1	0.1	Z	0.2	0.2	0.4	0.5	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.6
	0.1	0.1	SP	0.1	0.3	0.6	0.4	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3		
8-Feb	0.3	0.3	0.4	Z	0.6	0.6	2.0	0.7	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.7	0.5	0.2	0.1	0.2	0.1	0.2	0.2	0.5	2.0
	0.3	0.3	0.4	SP	0.6	1.5	1.2	0.6	0.3	0.3	0.4	0.5	0.5	0.7	0.7	0.3	0.5	0.2	0.2	0.2	0.1	0.1	0.2	0.3		
9-Feb	0.3	0.3	0.3	0.5	Z	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.9
	0.3	0.3	0.3	0.9	SP	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
10-Feb	0.3	0.3	0.3	0.3	0.3	Z	0.4	0.4	0.8	1.2	1.0	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.4	1.2
	0.3	0.3	0.3	0.3	0.3	SP	0.4	0.5	1.1	1.2	0.8	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2		
11-Feb	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3
	SP	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.1		
12-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
13-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1		
14-Feb	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	2.1	2.5	2.2	2.1	0.5	2.9
	0.1	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.8	2.9	2.4	2.2	1.9		
15-Feb	1.8	1.3	1.0	0.4	Z	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.2	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.4	1.8
	1.5	1.5	0.4	0.4	SP	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2		

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Patricia McInnes - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	0.2	0.2	0.2	0.2	0.1	Z	0.4	0.4	0.3	0.4	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6
	0.2	0.2	0.2	0.2	0.2	SP	0.5	0.4	0.3	0.5	0.6	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.2		
17-Feb	Z	0.3	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.4
	SP	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
18-Feb	0.1	Z	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.5	0.6	0.3	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.6
	0.1	SP	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.6	0.4	0.5	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.2		
19-Feb	0.2	0.2	Z	0.5	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.5
	0.2	0.2	SP	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1		
20-Feb	0.1	0.1	0.1	Z	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2	1.0	0.8	0.2	0.2	0.2	0.2	0.2	1.0
	0.1	0.1	0.1	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.7	1.0	0.4	0.2	0.2	0.1	0.1		
21-Feb	0.2	0.2	0.1	0.1	Z	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3
	0.2	0.2	0.1	0.1	SP	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2		
22-Feb	0.2	0.2	0.3	0.2	0.2	Z	0.5	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.5	0.2	0.2	0.2	0.2	0.2	0.3	0.5
	0.2	0.3	0.3	0.2	0.3	SP	0.4	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.2	0.1	0.2	0.2	0.1		
23-Feb	Z	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	SP	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
24-Feb	0.2	Z	0.5	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
	0.2	SP	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
25-Feb	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.6	0.5	0.3	0.6
	0.2	0.1	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.5	0.5	0.4	0.3		
26-Feb	0.4	0.4	0.3	Z	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.3	0.2	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5
	0.4	0.4	0.3	SP	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
27-Feb	0.2	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.4
	0.1	0.1	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.4		
28-Feb	0.4	0.3	0.3	0.2	0.3	Z	0.6	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.2	0.2	0.3	0.6
	0.3	0.3	0.3	0.3	0.2	SP	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2		
	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	Diurnal Average	
	1.8	1.5	1.0	0.9	0.6	1.5	2.0	0.7	1.1	1.2	1.0	0.5	0.5	0.7	0.7	0.6	0.7	0.7	1.0	0.8	2.9	2.5	2.2	2.1	Diurnal Maximum	

Z - zerospan C - Calibration SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Patricia McInnes - February 2026

Maximum Value: 2.5 ppb on Feb 14 21:00

Maximum Daily Average: 0.5 ppb on Feb 14

Minimum Value: 0.1 ppb on Feb 12 22:00

Minimum Daily Average: 0.1 ppb on Feb 12

Maximum Diurnal Average: 0.3 ppb at hour 22

Minimum Diurnal Average: 0.2 ppb at hour 13

Monthly Average: 0.25 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.1 Median = 0.2 Q_3 = 0.3 P_{90} = 0.4 P_{99} = 1.3

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
2-Feb	0.1	0.1	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.6	0.4	0.4	0.2	0.6
3-Feb	0.4	0.3	0.3	0.3	Z	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.4
4-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.5	0.5	0.3	0.3	0.2	0.5
5-Feb	Z	0.3	0.4	0.5	0.3	0.4	0.4	0.4	0.3	0.3	C	C	C	C	C	C	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	--	0.5
6-Feb	0.3	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
7-Feb	0.1	0.1	Z	0.2	0.2	0.5	0.4	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.5
8-Feb	0.3	0.3	0.4	Z	0.6	1.1	1.6	0.7	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.4	0.6	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.5	1.6
9-Feb	0.3	0.3	0.3	0.7	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
10-Feb	0.3	0.3	0.3	0.3	0.3	Z	0.4	0.4	0.9	1.2	0.9	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.4	1.2
11-Feb	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3
12-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
13-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2
14-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.5	2.5	2.5	2.2	2.0	0.5	2.5
15-Feb	1.7	1.4	0.7	0.4	Z	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.3	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.4	1.7
16-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.5	0.4	0.3	0.4	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6
17-Feb	Z	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
18-Feb	0.1	Z	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.4	0.4	0.5	0.3	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.5
19-Feb	0.2	0.2	Z	0.4	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.4
20-Feb	0.1	0.1	0.1	Z	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.5	1.0	0.6	0.2	0.2	0.2	0.1	0.2	1.0
21-Feb	0.2	0.2	0.1	0.1	Z	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3
22-Feb	0.2	0.2	0.3	0.2	0.2	Z	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.2	0.2	0.2	0.2	0.1	0.3	0.5
23-Feb	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
24-Feb	0.2	Z	0.4	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
25-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.4	0.5	0.4	0.3	0.2	0.5
26-Feb	0.4	0.4	0.3	Z	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
27-Feb	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.4	0.3	0.2	0.4
28-Feb	0.3	0.3	0.3	0.3	0.3	Z	0.5	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.4	0.3	0.3	0.2	0.2	0.3	0.5
	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	Diurnal Average	
	1.7	1.4	0.7	0.7	0.6	1.1	1.6	0.7	0.9	1.2	0.9	0.4	0.5	0.6	0.6	0.5	0.6	0.5	1.0	0.6	2.5	2.5	2.2	2.0	Diurnal Maximum	

Z - zerospan C - Calibration

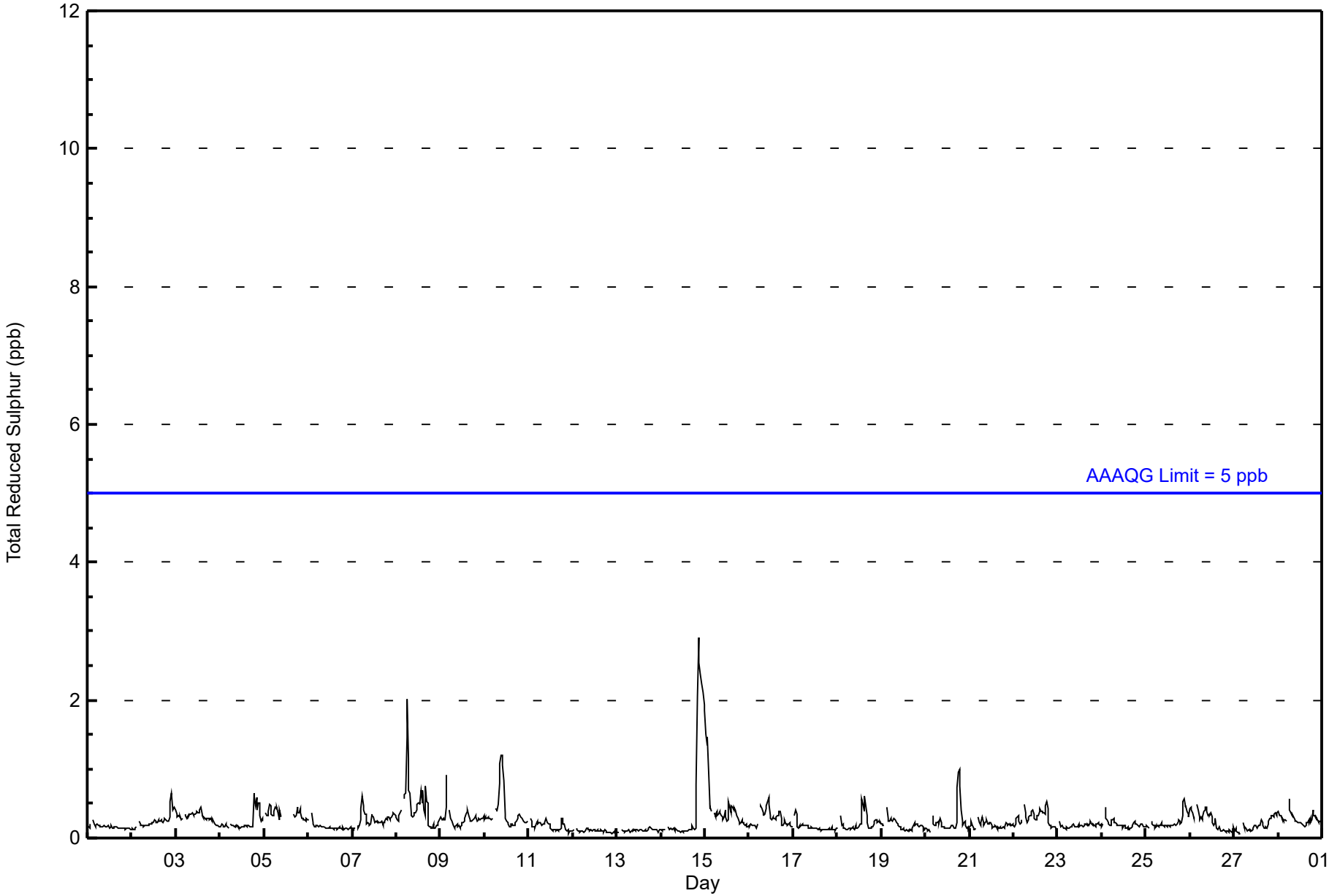
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Patricia McInnes - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	638	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Patricia McInnes - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	186	21	7	10	16	58	57	29	38	35	34	42	10	8	14	65	630
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	186	21	7	10	16	58	57	29	38	35	34	42	10	8	14	65	630

Total Number of Valid Hours: 630

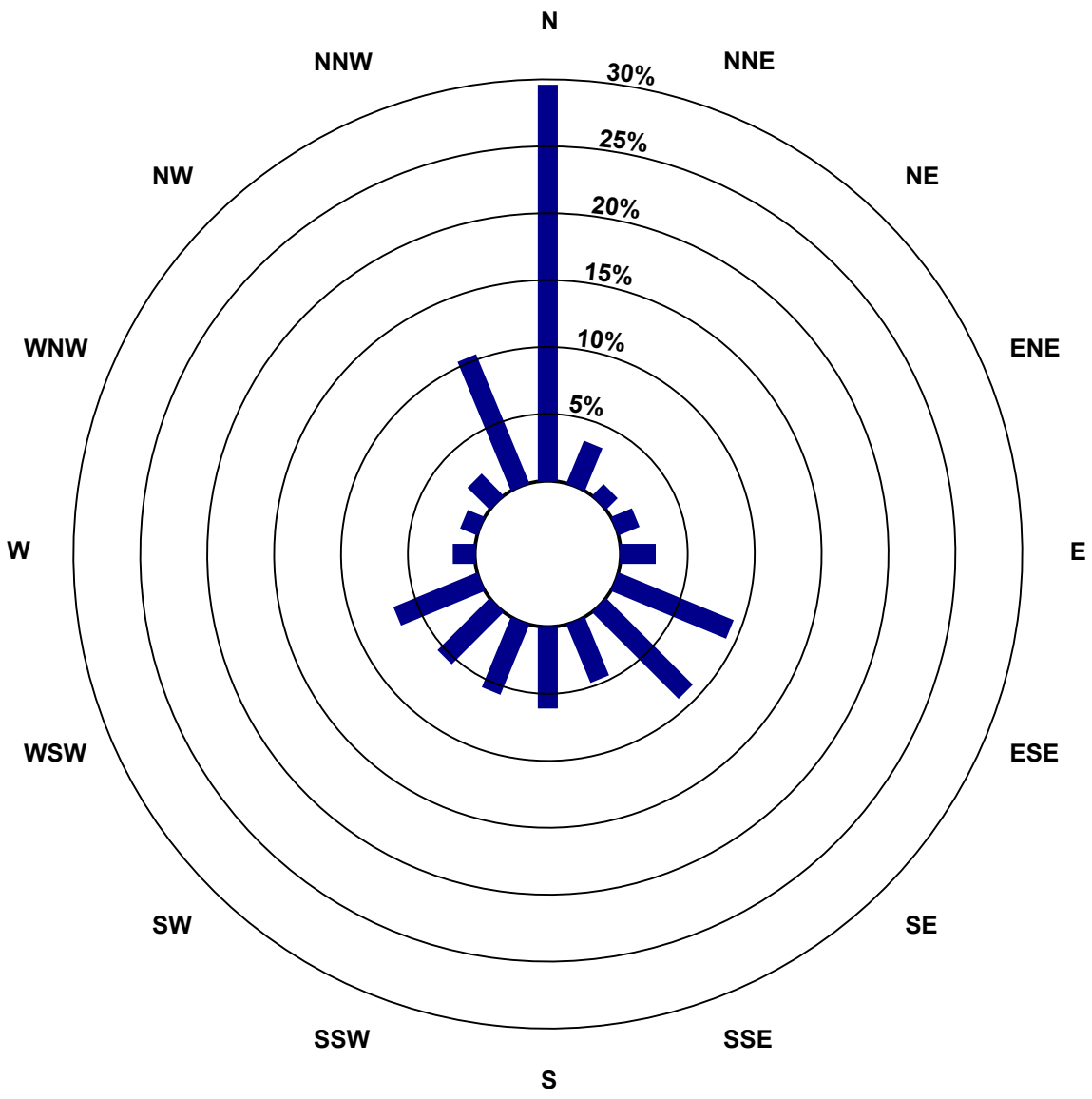
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Patricia McInnes



Classes (ppb)

- 0 - 2
- 3 - 4
- 5 - 7
- 8 - 11
- > 11

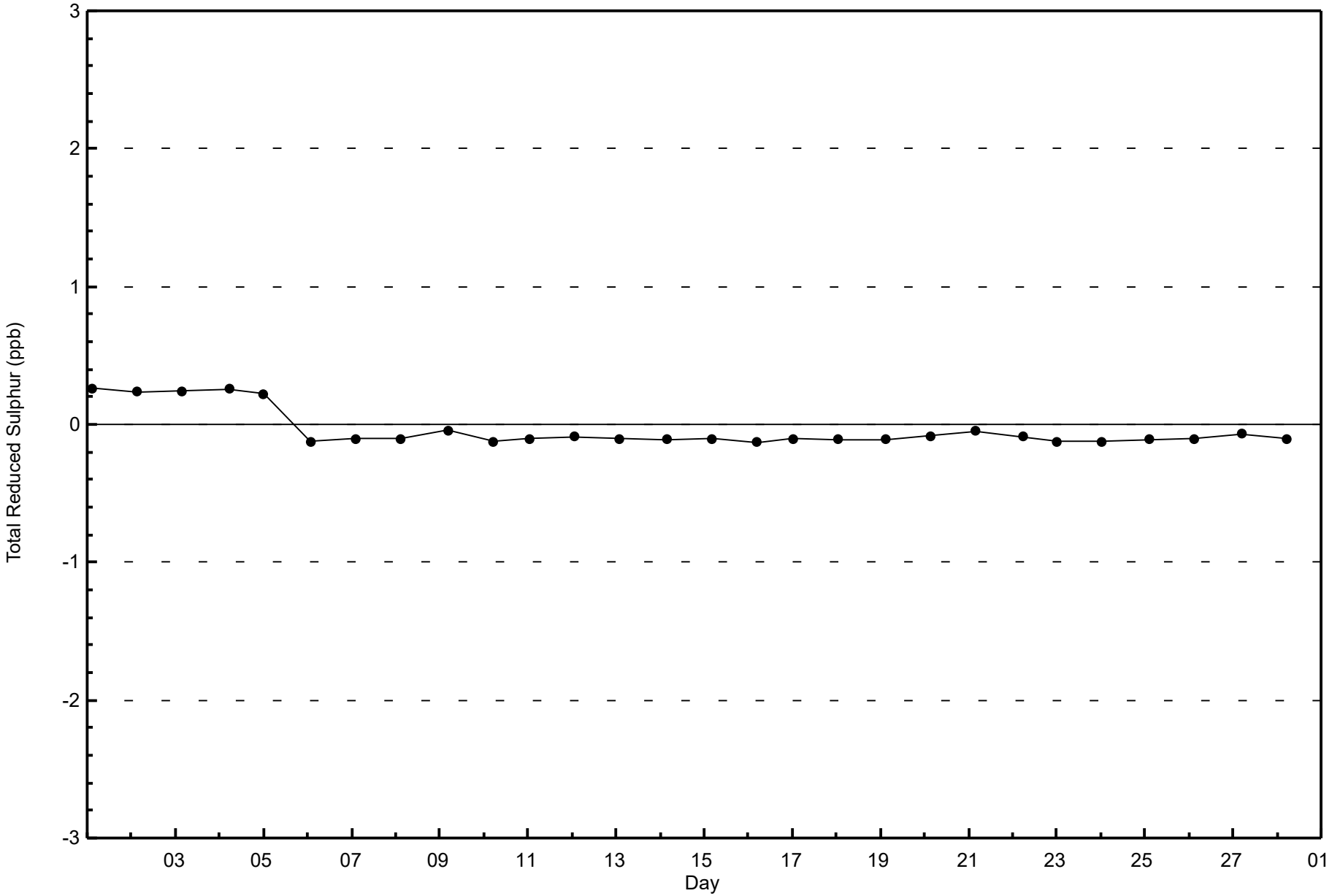
Total Number of Valid Hours: 630

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Patricia McInnes - February 2026

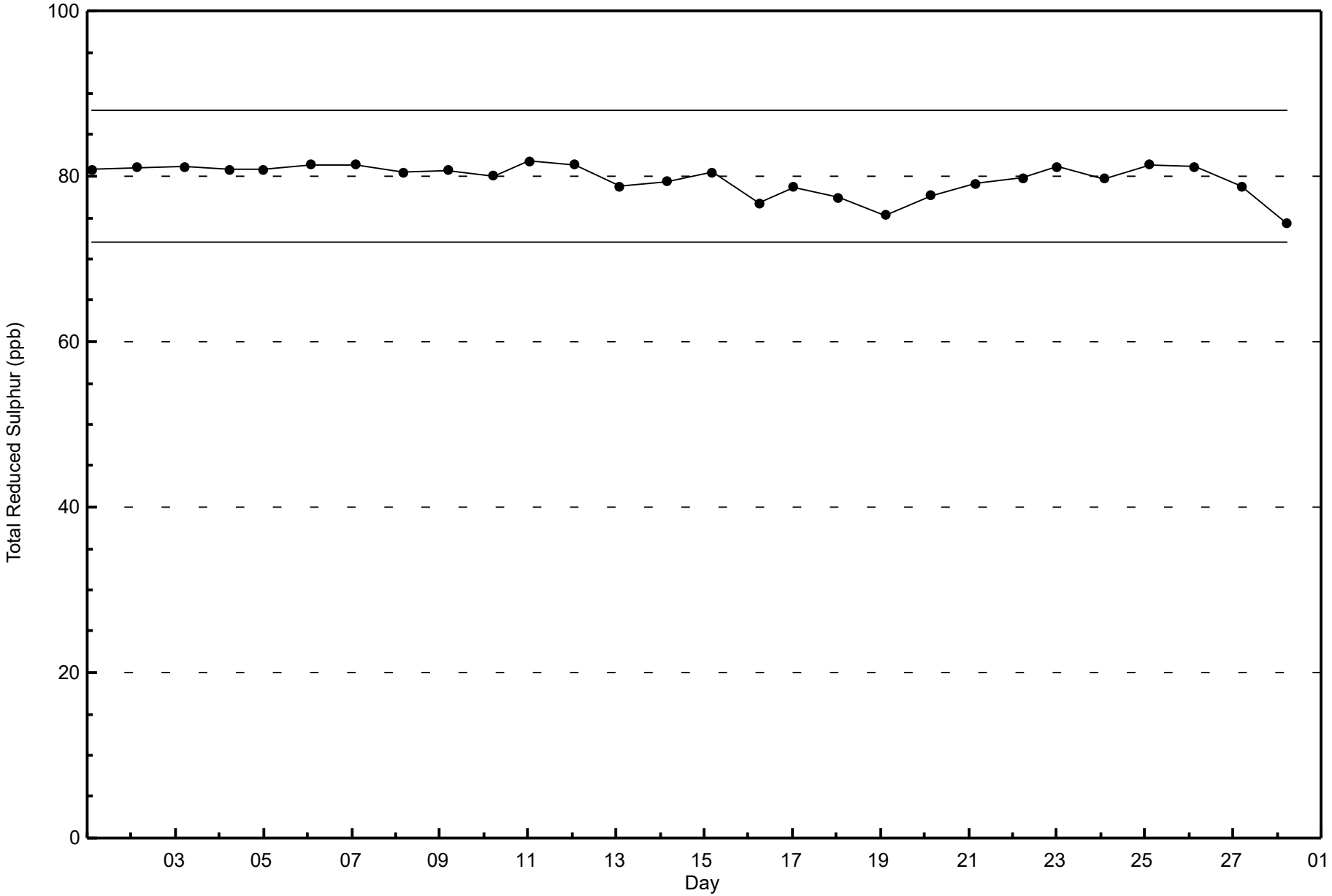


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Patricia McInnes - February 2026





Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Patricia McInnes - February 2026

Maximum Value: 3.0 ppm on Feb 14 22:00

Maximum Daily Average: 2.1 ppm on Feb 14

Minimum Value: 1.9 ppm on Feb 4 18:00

Minimum Daily Average: 1.9 ppm on Feb 13

Maximum Diurnal Average: 2.1 ppm at hour 22

Minimum Diurnal Average: 2.0 ppm at hour 17

Monthly Average: 2.03 ppm

Percentiles: P_1 = 1.9 P_{10} = 2.0 Q_1 = 2.0 Median = 2.0 Q_3 = 2.1 P_{90} = 2.1 P_{99} = 2.4

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	32
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
2-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.2	2.3	2.3	2.0	2.3
3-Feb	2.2	2.1	2.2	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2
4-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
5-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
6-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	C	C	C	C	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
7-Feb	2.0	Z	2.0	2.0	2.1	2.3	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3
8-Feb	2.0	2.0	Z	2.1	2.1	2.4	2.3	2.3	2.4	2.3	2.2	2.1	2.1	2.2	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.4
9-Feb	2.0	2.0	2.1	Z	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
10-Feb	2.0	2.0	2.0	2.0	Z	2.1	2.1	2.2	2.2	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
11-Feb	2.1	2.1	2.0	2.0	2.2	Z	2.2	2.1	2.1	2.2	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.0	1.9	1.9	1.9	2.0	2.0	2.2
12-Feb	Z	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0
13-Feb	1.9	Z	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0
14-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.2	3.0	3.0	2.9	2.8	2.1	3.0
15-Feb	2.8	2.6	2.3	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.8
16-Feb	2.0	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.2	2.2	2.3	2.1	2.0	2.1	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3
17-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
18-Feb	Z	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	M	M	M	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
19-Feb	2.0	Z	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1
20-Feb	2.1	2.1	Z	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.3	2.3	2.1	2.0	2.0	2.0	2.1	2.3
21-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
22-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.2
23-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1
24-Feb	Z	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.2
25-Feb	2.0	Z	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.3	2.2	2.1	2.3
26-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
27-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.0	2.1
28-Feb	2.1	2.1	2.1	2.1	Z	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.2
	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	Diurnal Average	
	2.8	2.6	2.3	2.2	2.2	2.4	2.3	2.3	2.4	2.3	2.3	2.1	2.1	2.2	2.3	2.1	2.1	2.1	2.3	2.3	3.0	3.0	2.9	2.8	Diurnal Maximum	

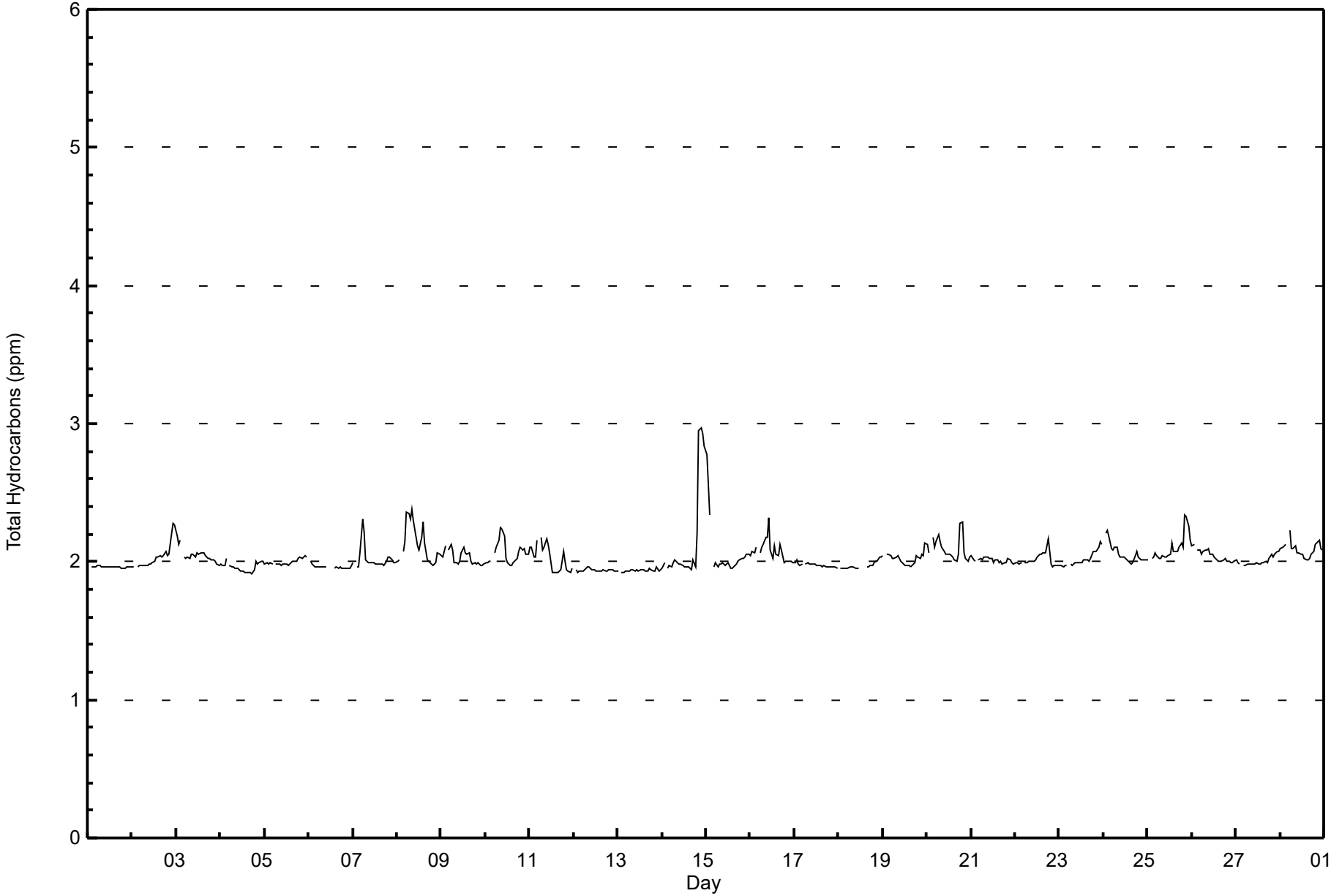
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Patricia McInnes - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	462	72.53	72.53
2.1 - 3.0	175	27.47	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Patricia McInnes - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	139	11	5	7	7	49	47	11	23	20	30	40	8	6	6	41	450
2.1 - 3.0	48	10	2	3	8	6	9	20	15	12	6	2	2	2	7	23	175
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	187	21	7	10	15	55	56	31	38	32	36	42	10	8	13	64	625

Total Number of Valid Hours: 625

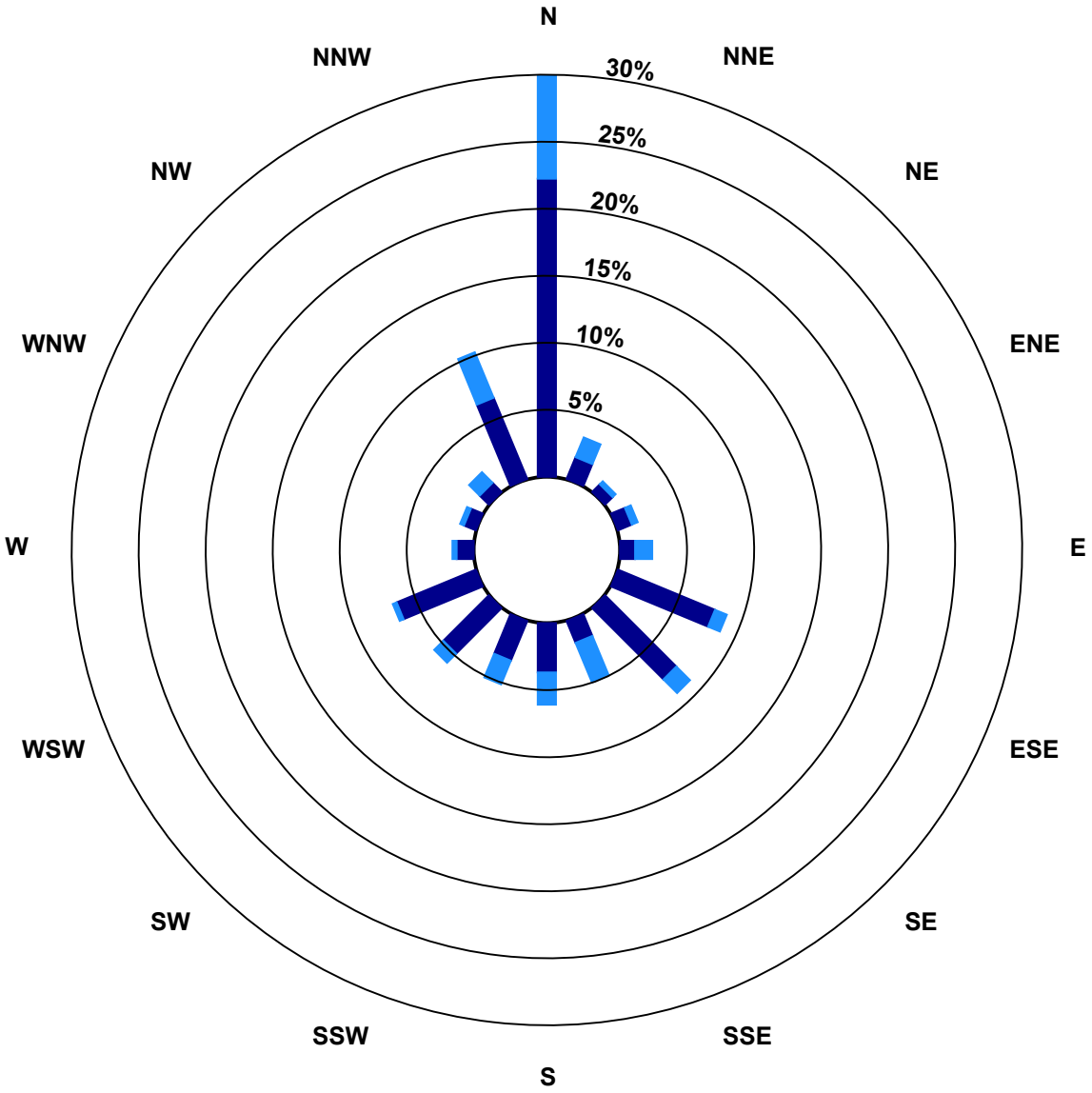
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Patricia McInnes



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

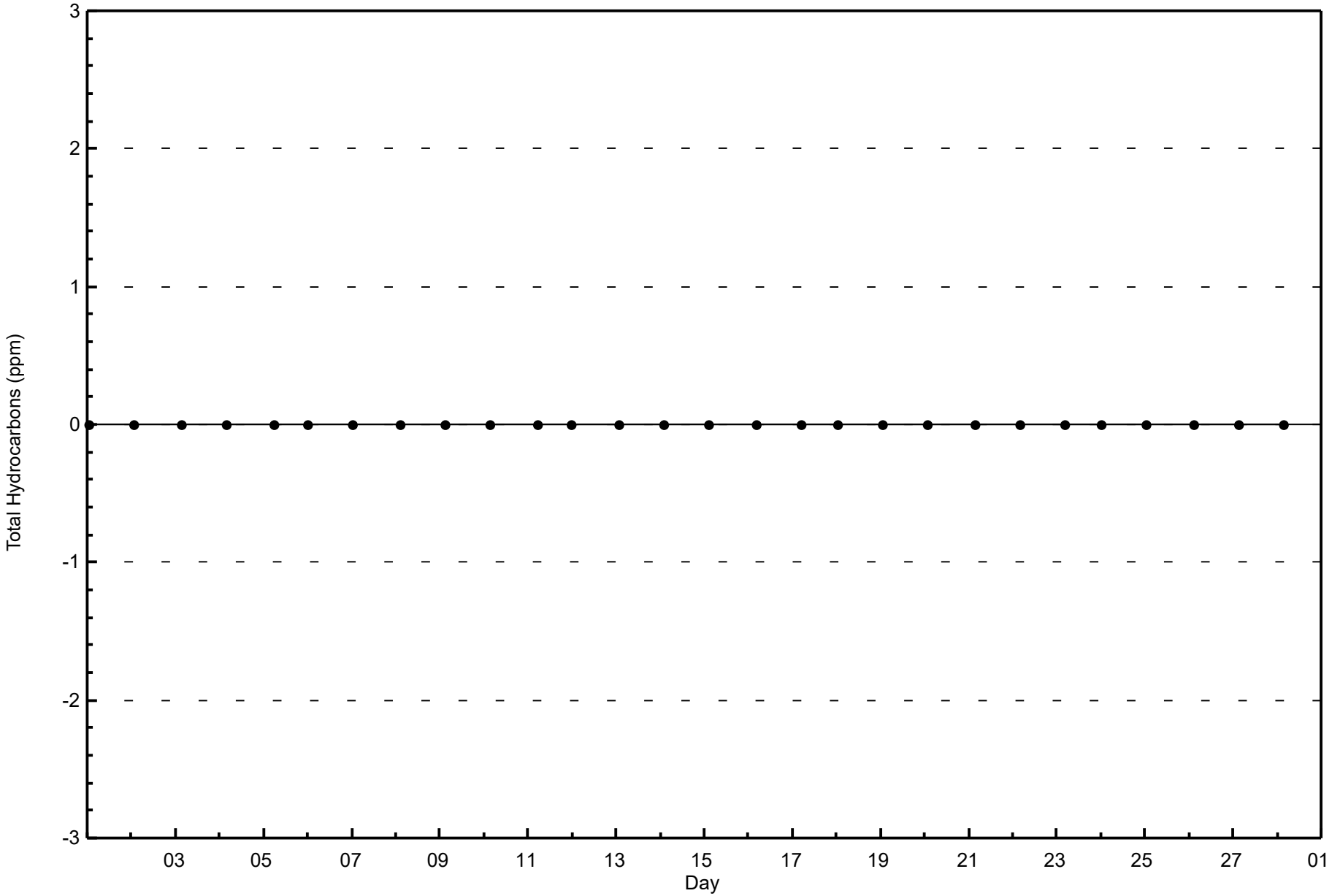
Total Number of Valid Hours: 625

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Patricia McInnes - February 2026

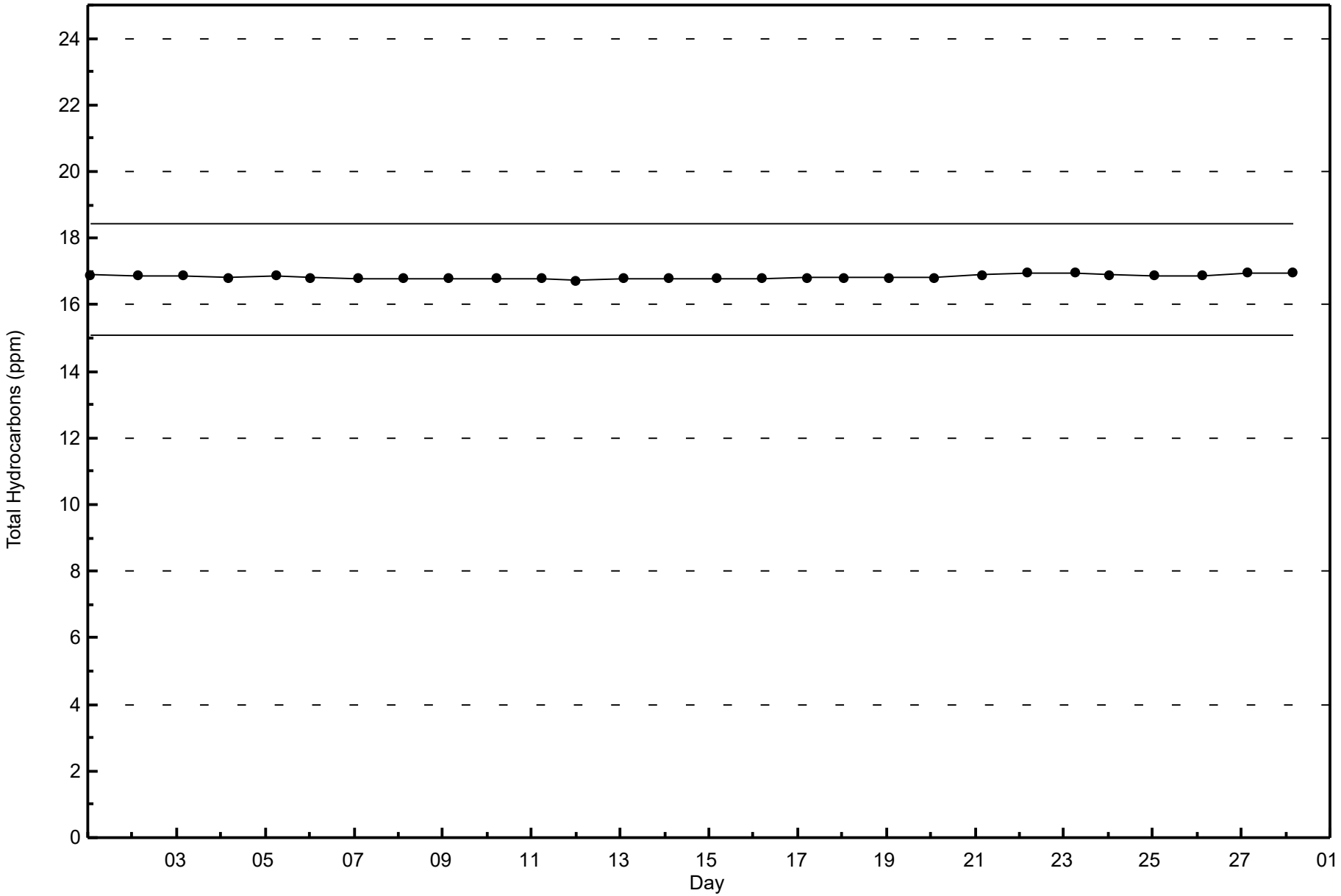


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Patricia McInnes - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Patricia McInnes - February 2026

Maximum Value: 0.082 ppm on Feb 25 14:00

Maximum Daily Average: 0.006 ppm on Feb 8

Minimum Value: 0.000 ppm on Feb 1 01:00

Minimum Daily Average: 0.000 ppm on Feb 1

Maximum Diurnal Average: 0.003 ppm at hour 14

Minimum Diurnal Average: 0.000 ppm at hour 2

Monthly Average: 0.001 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.0 P_{99} = 0.0

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	32
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008
4-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	C	C	C	C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.016	0.027	0.061	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.061
9-Feb	0.000	0.000	0.000	Z	0.000	0.033	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.040
10-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
11-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.007	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.001	0.007
12-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	M	M	M	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.024	0.001	0.024
20-Feb	0.012	0.000	Z	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.019	0.000	0.000	0.000	0.000	0.002	0.019
21-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
24-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
25-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082	0.001	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.004	0.082
26-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28-Feb	0.000	0.000	0.000	0.000	Z	0.013	0.003	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.009	0.000	0.000	0.001	0.001	0.013
	0.001	0.000	0.000	0.000	0.000	0.002	0.002	0.001	0.001	0.002	0.001	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	Diurnal Average	
	0.012	0.000	0.000	0.011	0.000	0.033	0.040	0.016	0.027	0.061	0.038	0.000	0.000	0.082	0.008	0.000	0.002	0.001	0.005	0.019	0.009	0.000	0.001	0.024	Diurnal Maximum	

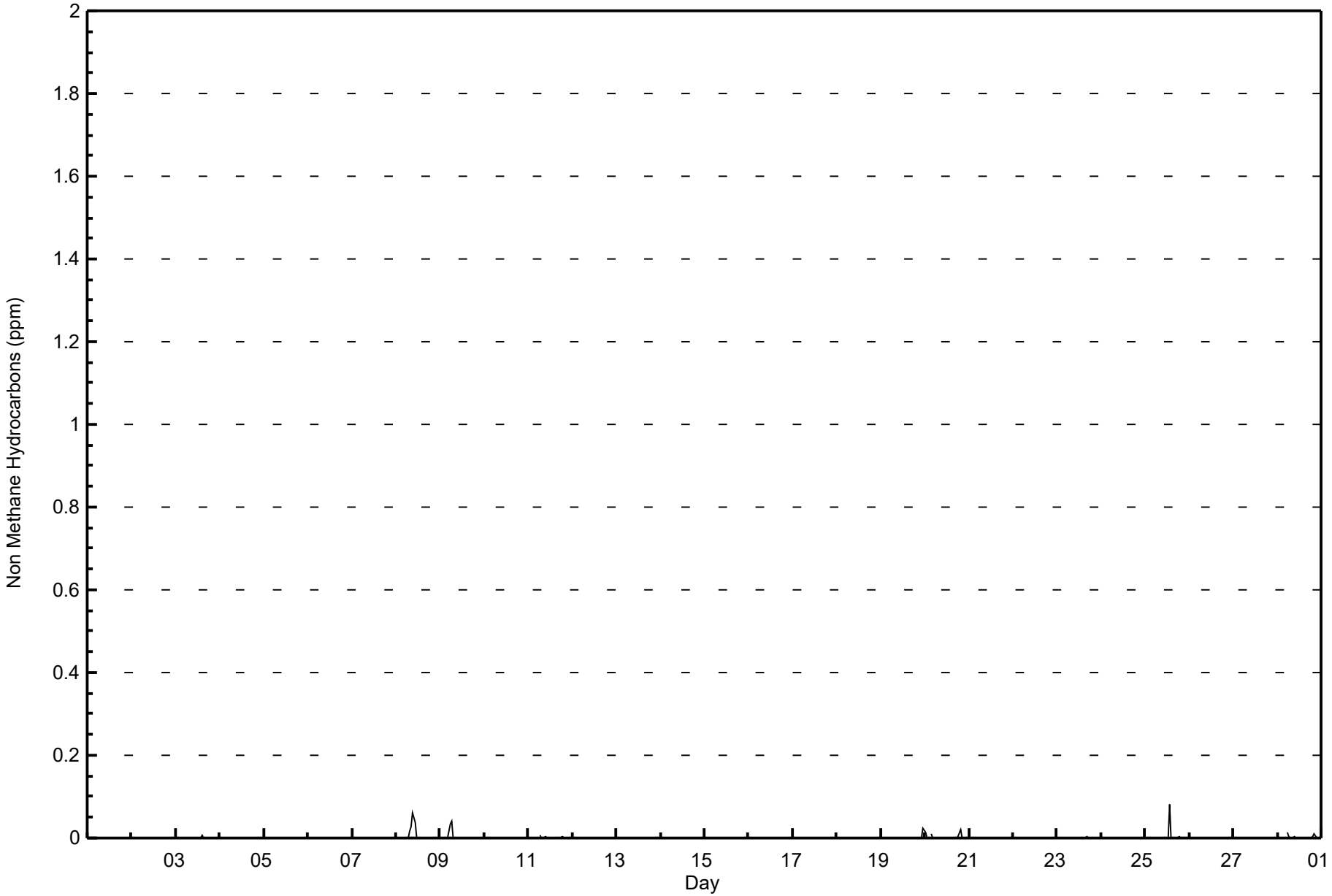
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Patricia McInnes - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	622	97.65	97.65
0.006 - 0.05	13	2.04	99.69
0.06 - 0.1	2	0.31	100.00
> 0.1	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Patricia McInnes - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	187	21	7	9	13	55	54	28	38	30	36	42	10	7	12	61	610
0.006 - 0.05	0	0	0	1	2	0	2	2	0	2	0	0	0	1	0	3	13
0.06 - 0.1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2
> 0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	187	21	7	10	15	55	56	31	38	32	36	42	10	8	13	64	625

Total Number of Valid Hours: 625

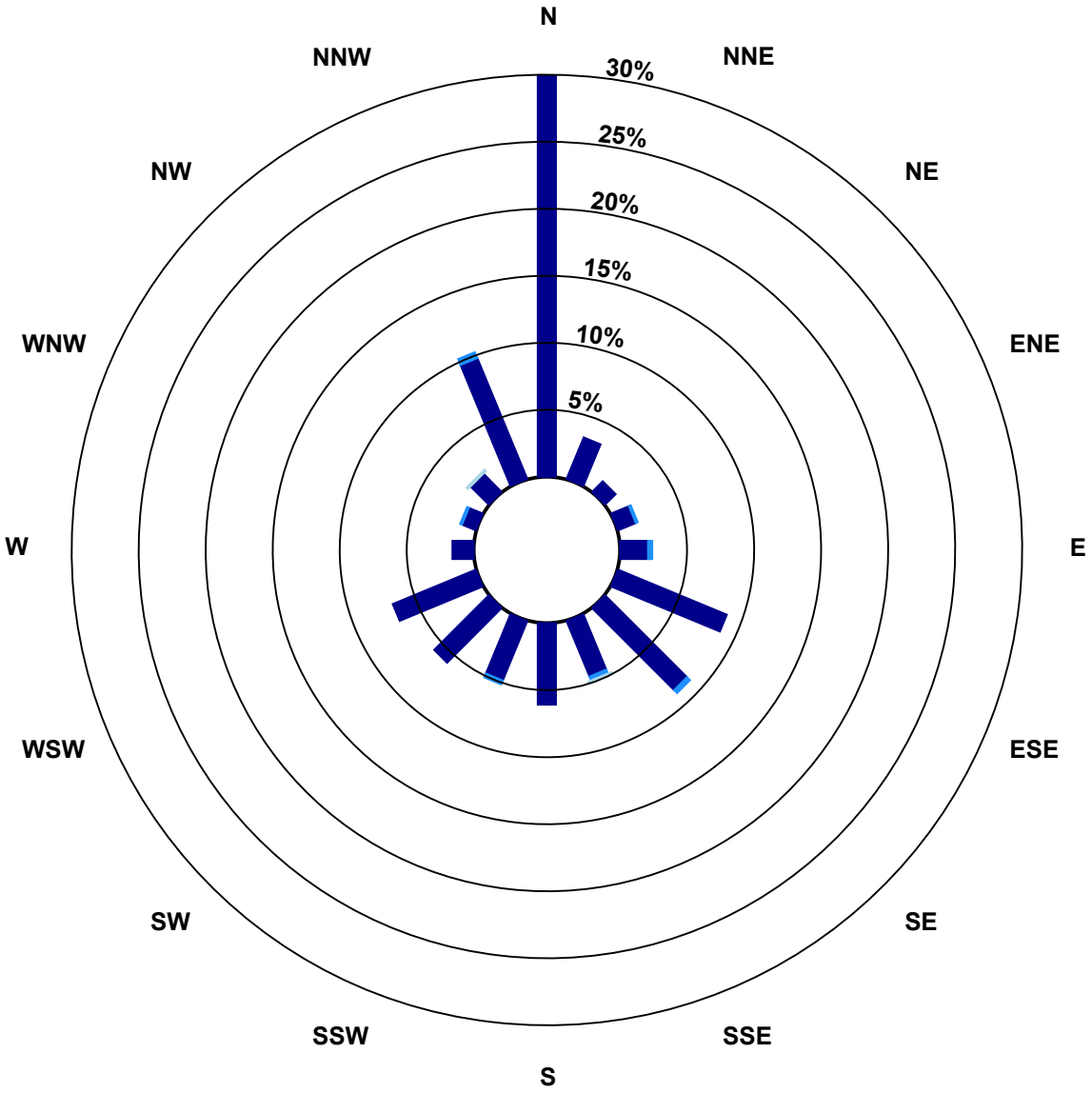
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Patricia McInnes



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

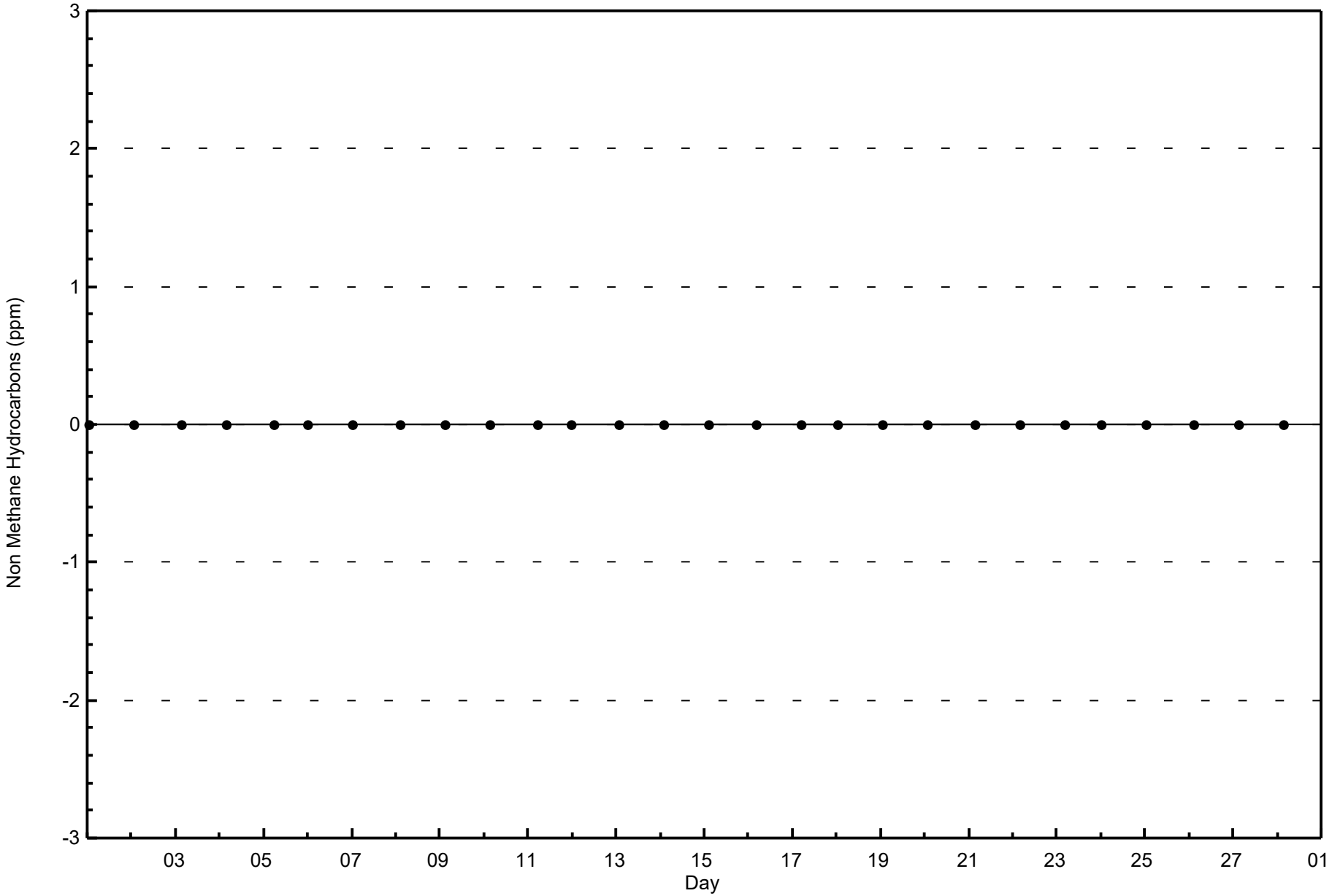
Total Number of Valid Hours: 625

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Patricia McInnes - February 2026

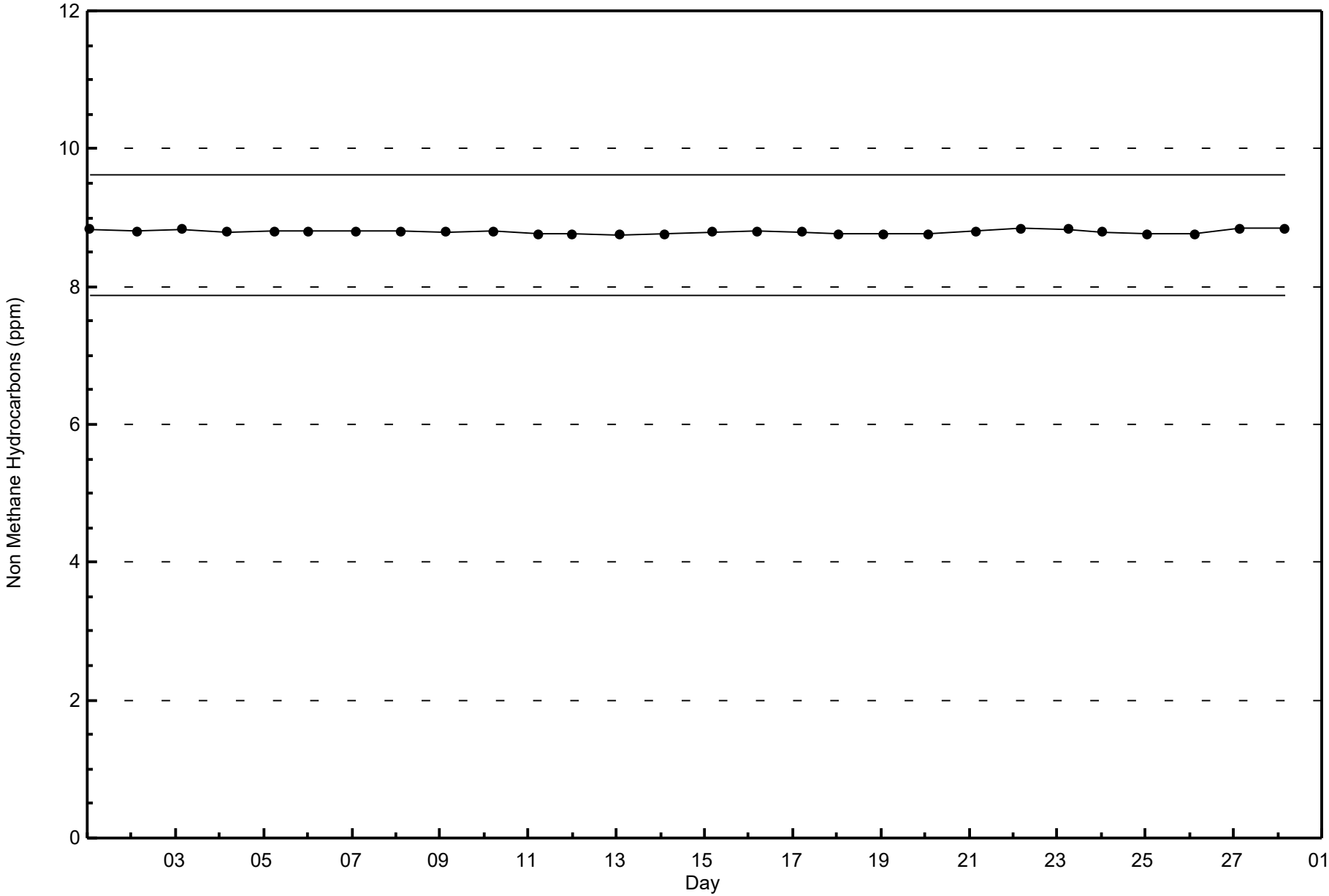


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Patricia McInnes - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Patricia McInnes - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 3.0 ppm on Feb 14 22:00

Maximum Daily Average: 2.1 ppm on Feb 14

Minimum Value: 1.9 ppm on Feb 4 18:00

Minimum Daily Average: 1.9 ppm on Feb 13

Maximum Diurnal Average: 2.1 ppm at hour 22

Minimum Diurnal Average: 2.0 ppm at hour 17

Monthly Average: 2.03 ppm

Percentiles: P_1 = 1.9 P_{10} = 2.0 Q_1 = 2.0 Median = 2.0 Q_3 = 2.1 P_{90} = 2.1 P_{99} = 2.4

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	32
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
2-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.2	2.3	2.3	2.0	2.3
3-Feb	2.2	2.1	2.2	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2
4-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
5-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
6-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	C	C	C	C	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
7-Feb	2.0	Z	2.0	2.0	2.1	2.3	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3
8-Feb	2.0	2.0	Z	2.1	2.1	2.4	2.3	2.3	2.4	2.2	2.1	2.1	2.1	2.2	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.4
9-Feb	2.0	2.0	2.1	Z	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
10-Feb	2.0	2.0	2.0	2.0	Z	2.1	2.1	2.2	2.2	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
11-Feb	2.1	2.1	2.0	2.0	2.2	Z	2.2	2.1	2.1	2.2	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.0	1.9	1.9	1.9	2.0	2.0	2.2
12-Feb	Z	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0
13-Feb	1.9	Z	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0
14-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.2	3.0	3.0	2.9	2.8	2.1	3.0
15-Feb	2.8	2.6	2.3	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.8
16-Feb	2.0	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.2	2.2	2.3	2.1	2.0	2.1	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3
17-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
18-Feb	Z	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	M	M	M	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
19-Feb	2.0	Z	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1
20-Feb	2.1	2.1	Z	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.3	2.3	2.1	2.0	2.0	2.0	2.1	2.3
21-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
22-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.2
23-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1
24-Feb	Z	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.2
25-Feb	2.0	Z	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.3	2.2	2.1	2.3
26-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
27-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.0	2.1
28-Feb	2.1	2.1	2.1	2.1	Z	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.2
	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	Diurnal Average	
	2.8	2.6	2.3	2.2	2.2	2.4	2.3	2.3	2.4	2.2	2.3	2.1	2.1	2.2	2.3	2.1	2.1	2.1	2.3	2.3	3.0	3.0	2.9	2.8	Diurnal Maximum	

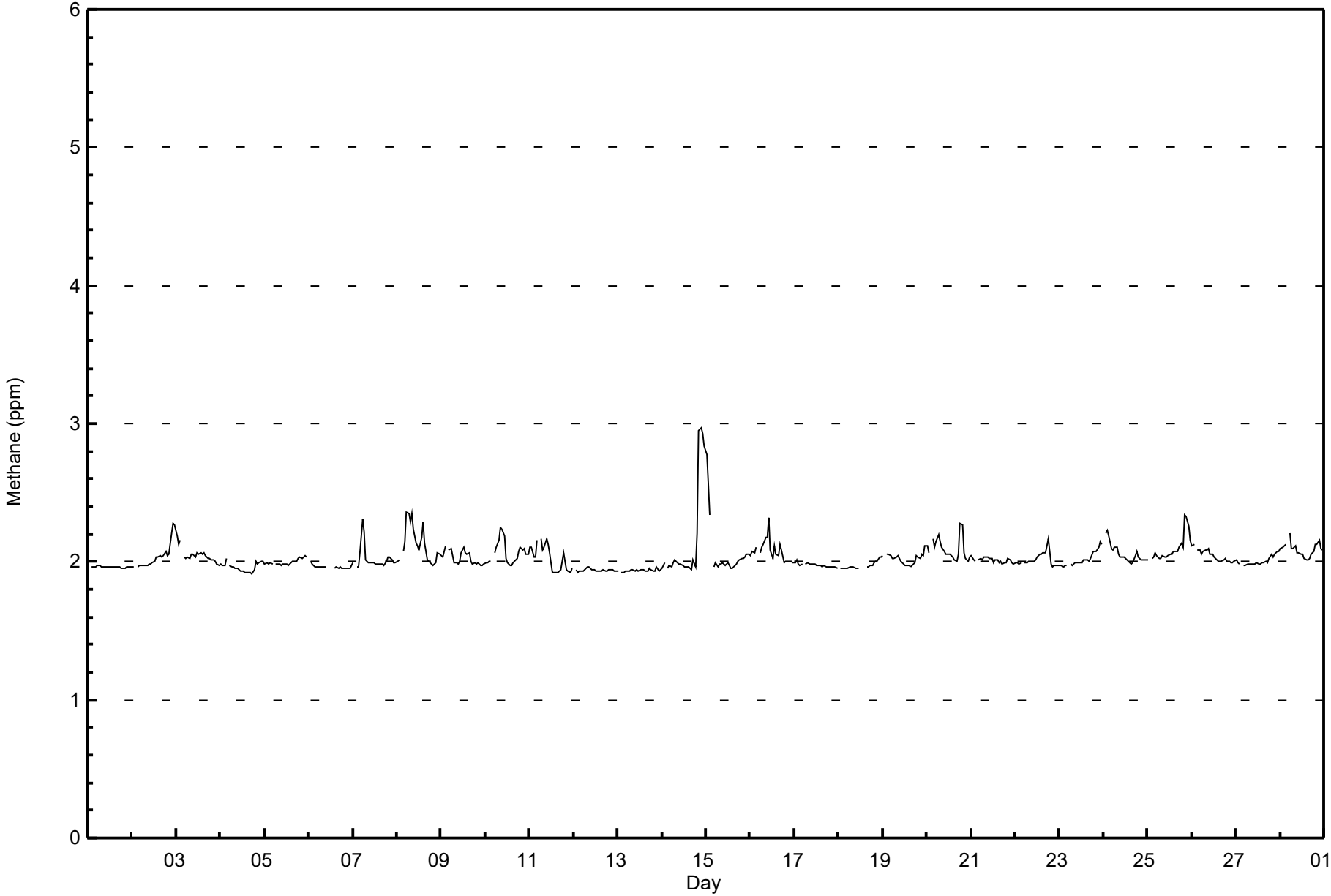
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Patricia McInnes - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	464	72.84	72.84
2.1 - 3.0	173	27.16	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Patricia McInnes - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	139	11	5	7	8	49	47	12	23	20	30	40	8	6	6	41	452
2.1 - 3.0	48	10	2	3	7	6	9	19	15	12	6	2	2	2	7	23	173
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	187	21	7	10	15	55	56	31	38	32	36	42	10	8	13	64	625

Total Number of Valid Hours: 625

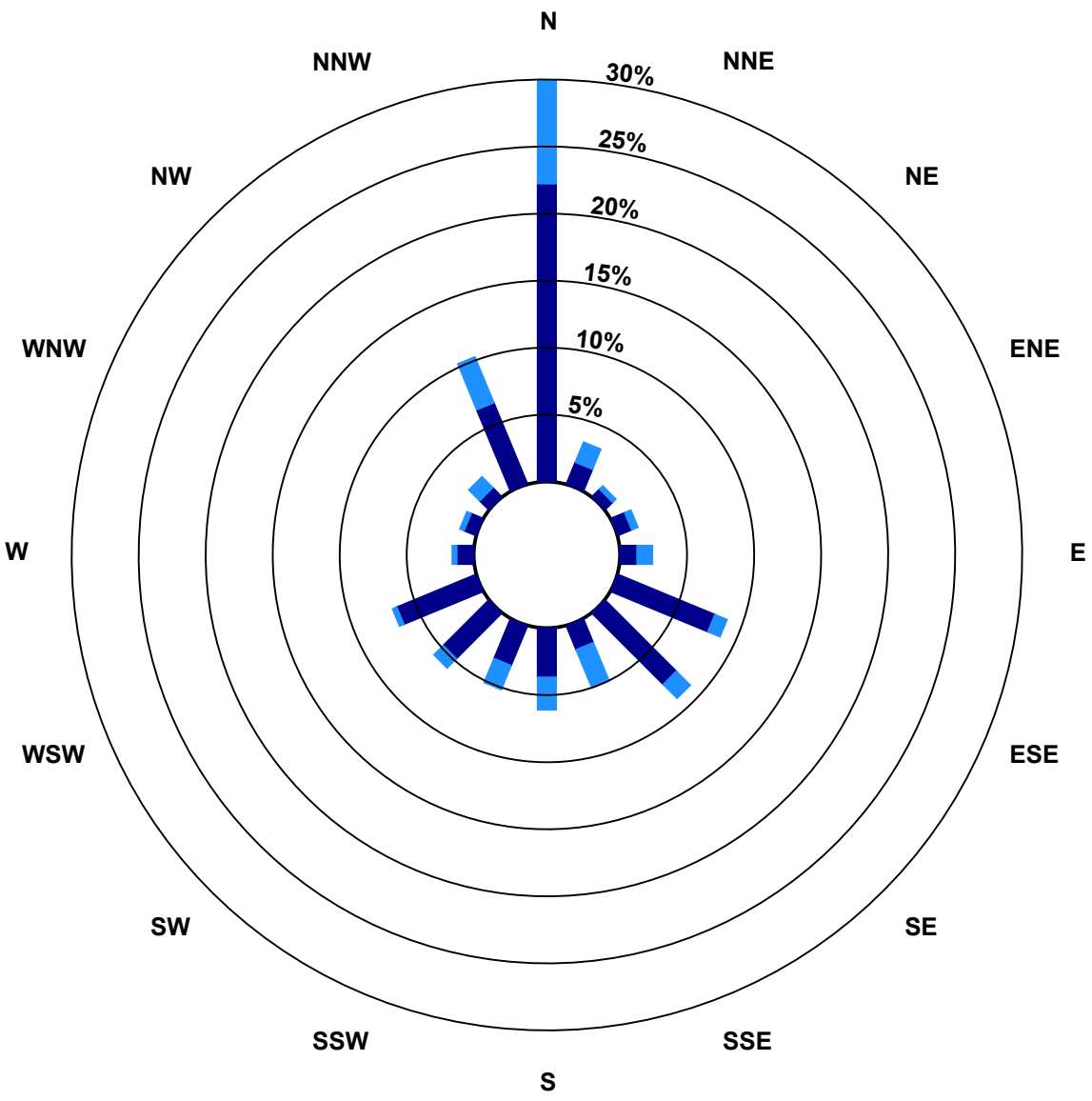
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Patricia McInnes



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

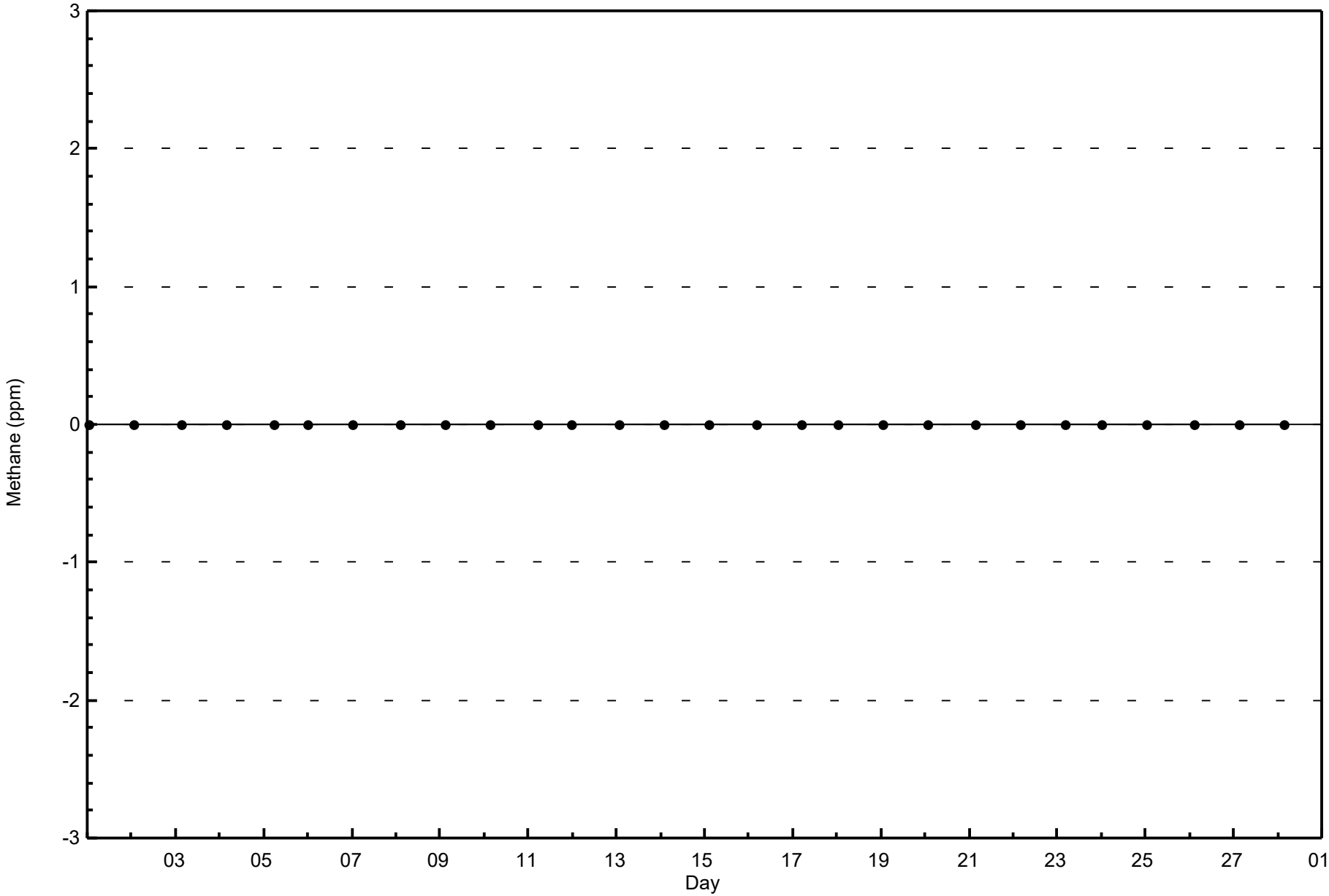
Total Number of Valid Hours: 625

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Patricia McInnes - February 2026

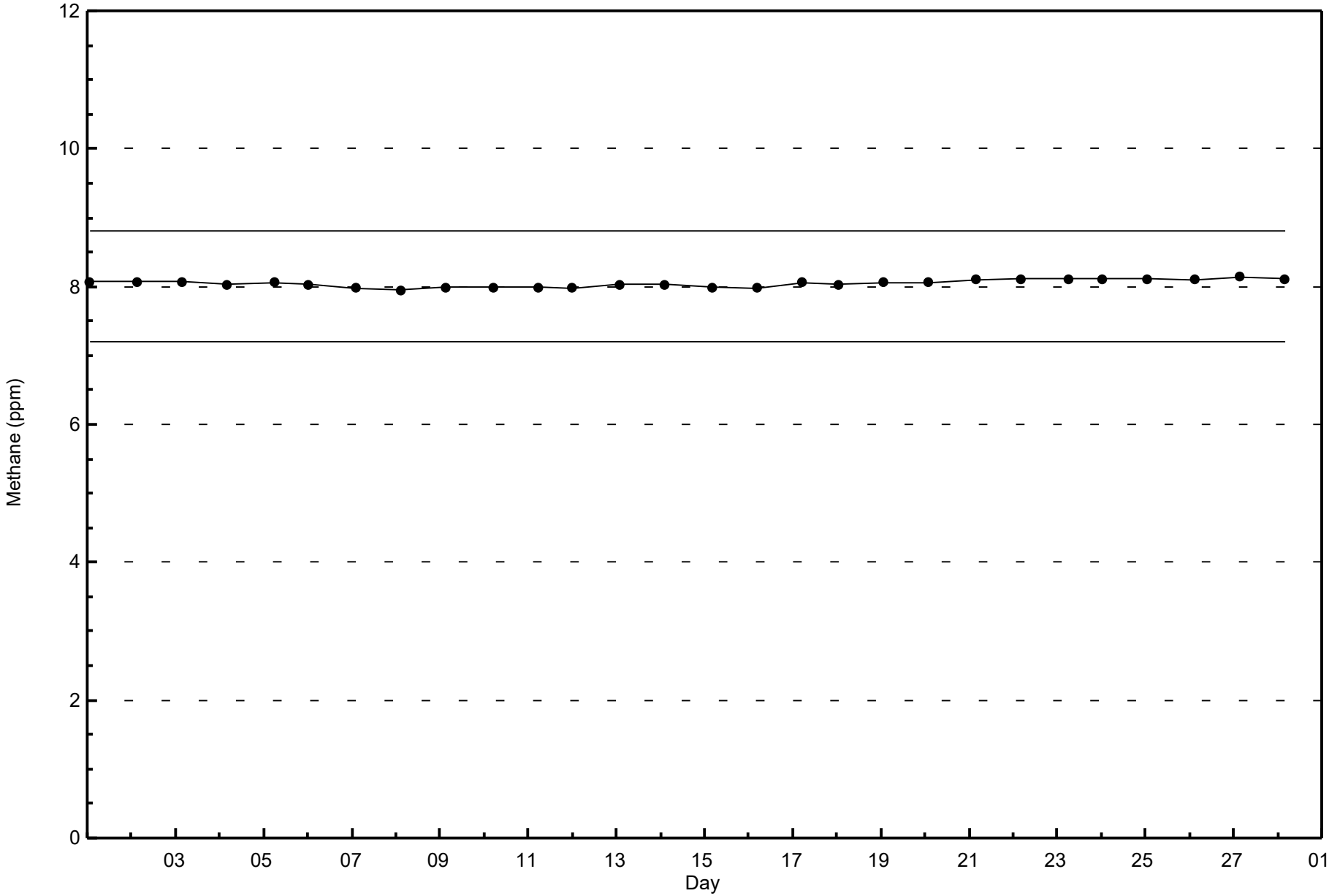


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Patricia McInnes - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ozone (O_3) - ppb

Patricia McInnes - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 46.8 ppb on Feb 13 03:00

Maximum Daily Average: 43.7 ppb on Feb 13

Minimum Value: 0.4 ppb on Feb 19 00:00

Minimum Daily Average: 3.5 ppb on Feb 18

Maximum Diurnal Average: 26.9 ppb at hour 15

Minimum Diurnal Average: 17.7 ppb at hour 19

Monthly Average: 21.29 ppb

Percentiles: P_1 = 0.9 P_{10} = 4.8 Q_1 = 13.4 Median = 22.4 Q_3 = 28.3 P_{90} = 34.9 P_{99} = 46.3

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	28.1	30.4	33.2	Z	34.1	32.2	30.6	32.4	34.2	34.0	33.1	32.5	33.7	33.8	34.1	33.2	33.2	33.8	34.6	34.9	35.1	34.6	34.9	34.3	33.3	35.1
2-Feb	33.7	33.7	33.1	32.2	Z	30.6	30.4	28.8	27.5	26.3	26.9	25.8	23.7	22.4	21.3	17.3	16.3	9.0	3.0	13.1	11.0	9.3	8.2	9.9	21.5	33.7
3-Feb	13.4	17.1	18.2	22.6	26.1	Z	23.6	24.2	19.7	21.9	21.5	23.0	20.1	17.5	16.5	14.6	17.9	18.7	19.8	18.5	18.7	20.8	23.4	24.2	20.1	26.1
4-Feb	Z	23.7	21.8	20.5	27.0	28.8	30.3	29.7	29.7	30.7	31.1	31.2	31.7	34.2	37.1	37.1	35.9	35.8	31.5	22.8	23.6	23.0	23.8	23.2	28.9	37.1
5-Feb	25.2	Z	25.7	25.8	27.5	28.4	29.3	29.9	30.1	30.8	31.0	31.2	31.3	31.0	29.7	27.8	25.2	22.7	18.5	15.1	17.6	15.6	14.6	16.6	25.2	31.3
6-Feb	19.8	24.6	Z	31.5	31.7	29.8	29.0	28.7	27.7	28.0	27.7	27.7	27.6	27.9	28.4	26.3	26.4	23.8	23.0	24.6	26.1	27.0	26.3	19.7	26.7	31.7
7-Feb	20.5	20.9	19.5	Z	15.0	1.9	7.9	22.9	26.8	28.8	29.5	29.4	30.4	29.9	29.2	27.8	28.7	26.6	23.4	22.0	21.9	22.5	23.1	22.4	23.1	30.4
8-Feb	21.1	19.4	16.5	13.2	Z	4.4	2.9	1.1	2.7	9.3	14.2	14.9	18.8	15.8	15.7	19.1	22.9	23.5	25.6	26.9	25.3	24.7	24.7	23.9	16.8	26.9
9-Feb	22.3	23.2	15.7	5.8	10.1	Z	9.5	17.1	17.8	21.4	22.5	18.4	17.4	22.8	23.5	22.8	26.7	27.4	25.8	26.7	28.0	28.1	28.3	26.9	21.2	28.3
10-Feb	Z	25.8	25.1	24.3	23.3	19.2	13.4	8.6	10.0	15.4	17.6	22.6	24.0	24.2	23.1	20.8	17.6	4.7	1.2	1.7	3.4	8.7	9.3	8.4	15.3	25.8
11-Feb	5.4	Z	17.6	19.0	4.7	2.0	1.3	3.1	4.1	5.4	10.5	14.9	37.2	38.1	38.2	39.2	35.9	19.6	1.5	6.1	27.6	37.2	38.5	33.9	19.2	39.2
12-Feb	27.5	36.9	Z	40.2	38.8	39.4	37.1	26.8	21.7	32.4	34.9	37.3	37.9	39.1	37.6	30.3	33.6	39.5	38.2	42.8	43.1	44.2	45.0	45.6	37.0	45.6
13-Feb	46.4	46.5	46.8	Z	46.6	46.3	45.3	43.6	40.2	43.6	45.3	45.9	46.2	46.4	46.6	46.4	45.8	31.6	36.5	42.7	44.0	38.3	42.8	41.6	43.7	46.8
14-Feb	39.4	33.9	36.1	40.5	Z	38.9	29.7	24.4	27.8	36.9	38.9	40.6	41.5	43.1	44.1	43.1	40.4	26.8	40.8	21.5	1.8	1.7	1.5	1.5	30.2	44.1
15-Feb	1.5	1.1	4.2	22.1	24.7	Z	25.1	25.6	25.4	26.0	27.9	27.8	28.2	27.1	25.6	23.5	20.5	17.6	18.2	16.4	14.5	16.0	15.5	14.4	19.5	28.2
16-Feb	Z	11.8	12.1	11.8	13.2	15.0	10.4	10.2	12.1	14.1	12.0	16.1	19.4	15.9	19.0	17.8	10.4	6.3	13.3	11.5	11.0	11.2	12.0	12.2	13.0	19.4
17-Feb	10.8	Z	11.9	13.9	12.6	14.0	14.2	12.9	14.4	15.7	17.1	19.1	20.7	21.9	23.2	24.1	25.8	25.1	25.5	23.8	22.1	21.3	19.8	16.4	18.5	25.8
18-Feb	10.0	7.4	Z	4.0	3.1	3.5	3.6	3.6	3.9	C	C	C	C	5.3	4.8	4.6	4.0	3.0	2.0	1.3	1.0	0.8	0.6	0.4	3.5	10.0
19-Feb	0.4	0.5	0.4	Z	0.9	1.1	1.6	1.9	4.8	7.2	11.3	16.2	19.3	23.4	27.9	29.8	27.9	13.5	5.8	5.6	8.7	10.0	12.8	15.9	10.7	29.8
20-Feb	10.4	14.9	15.5	3.6	Z	5.8	3.1	6.0	8.4	18.8	24.2	27.5	26.1	26.6	27.9	30.8	30.6	19.9	2.9	4.6	22.0	22.8	20.2	15.1	16.9	30.8
21-Feb	14.9	16.2	18.4	17.4	15.8	Z	18.1	15.2	15.6	16.8	17.7	21.0	27.8	28.5	28.6	29.7	25.5	25.6	21.1	20.9	18.6	17.4	14.8	11.5	19.9	29.7
22-Feb	Z	9.2	8.0	7.7	7.8	6.6	4.9	3.1	4.9	6.6	7.8	8.2	9.0	10.1	9.0	8.0	6.9	3.1	2.8	24.9	29.6	28.5	28.7	28.3	11.5	29.6
23-Feb	27.7	Z	27.3	26.4	25.6	22.5	21.9	19.4	16.3	17.9	21.1	21.3	23.0	22.0	21.5	19.4	21.6	17.3	7.8	9.6	10.2	6.6	2.8	7.7	18.1	27.7
24-Feb	15.3	10.4	Z	7.3	14.6	10.3	5.2	7.3	18.3	22.4	23.9	24.2	26.1	29.8	34.2	35.9	33.2	14.4	8.6	15.7	25.5	27.1	27.3	28.5	20.2	35.9
25-Feb	28.8	28.7	27.1	Z	21.9	23.8	25.0	25.9	20.0	23.5	25.3	28.4	29.8	28.2	26.1	25.8	23.0	8.3	5.1	15.8	6.2	6.3	14.5	19.9	21.2	29.8
26-Feb	22.1	21.4	23.5	23.4	Z	21.1	19.6	18.1	18.2	19.4	22.6	24.7	27.0	29.8	31.0	30.9	29.8	28.5	27.0	27.6	26.6	26.0	25.4	24.9	24.7	31.0
27-Feb	25.8	29.1	31.5	32.1	31.1	Z	25.7	27.6	25.2	23.0	22.7	22.3	23.4	23.8	23.0	22.1	21.5	20.4	20.5	16.2	7.3	8.3	6.4	1.9	21.4	32.1
28-Feb	Z	1.3	1.9	2.1	4.9	2.3	3.3	4.1	8.9	18.4	21.0	21.4	23.3	24.9	27.5	28.0	20.1	11.0	11.4	2.3	2.2	3.1	10.9	16.5	11.8	28.0
	20.5	20.4	20.5	19.4	20.0	18.6	17.9	17.9	18.4	22.0	23.7	24.9	26.8	26.6	26.9	26.3	25.3	19.9	17.7	18.4	19.0	19.3	19.9	19.5	Diurnal Average	
	46.4	46.5	46.8	40.5	46.6	46.3	45.3	43.6	40.2	43.6	45.3	45.9	46.2	46.4	46.6	46.4	45.8	39.5	40.8	42.8	44.0	44.2	45.0	45.6	Diurnal Maximum	

Z - zerospan C - Calibration

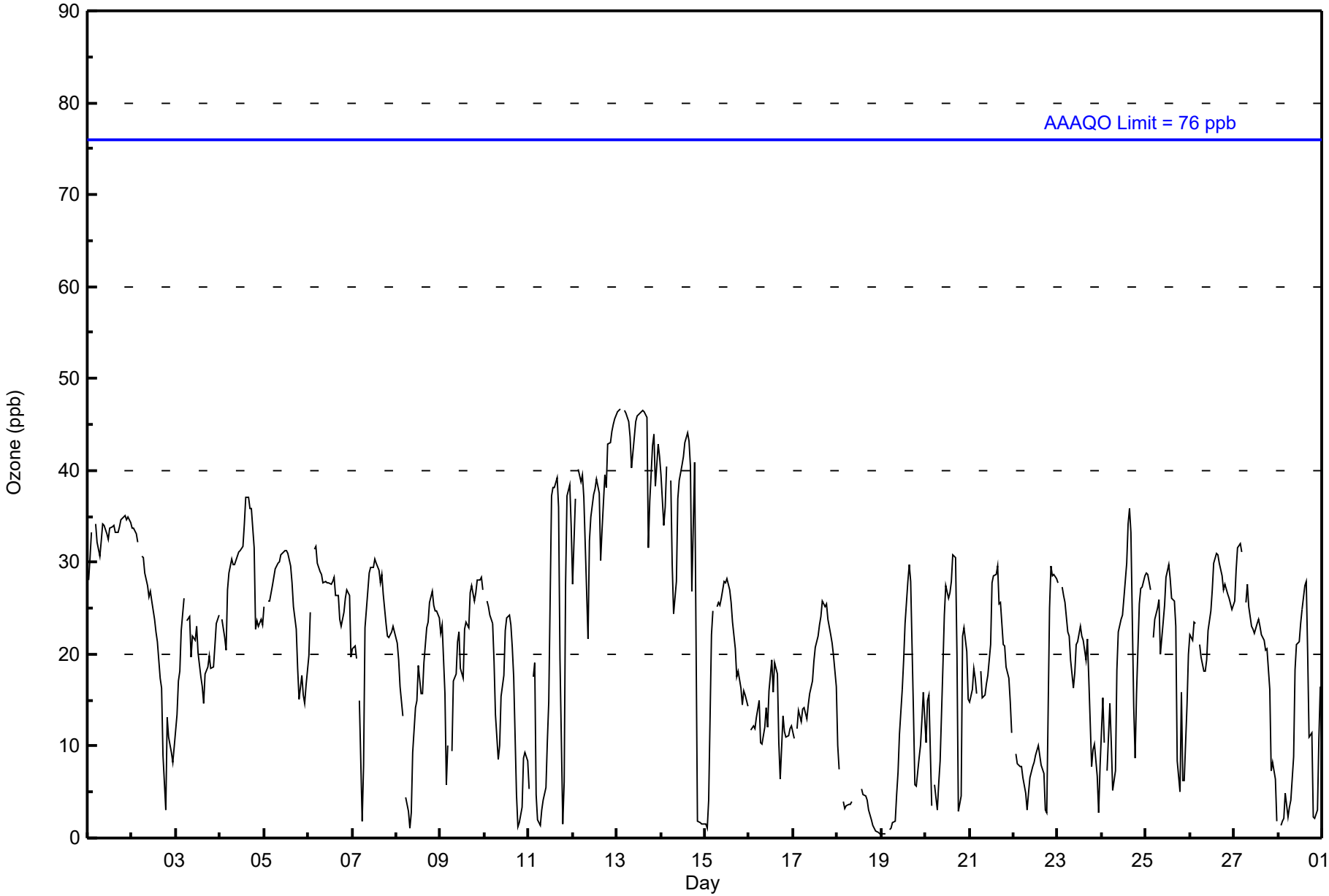
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 76 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ozone (O_3) - ppb

Patricia McInnes - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	276	43.13	43.13
21 - 50	364	56.88	100.00
51 - 82	0	0.00	100.00
> 83	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

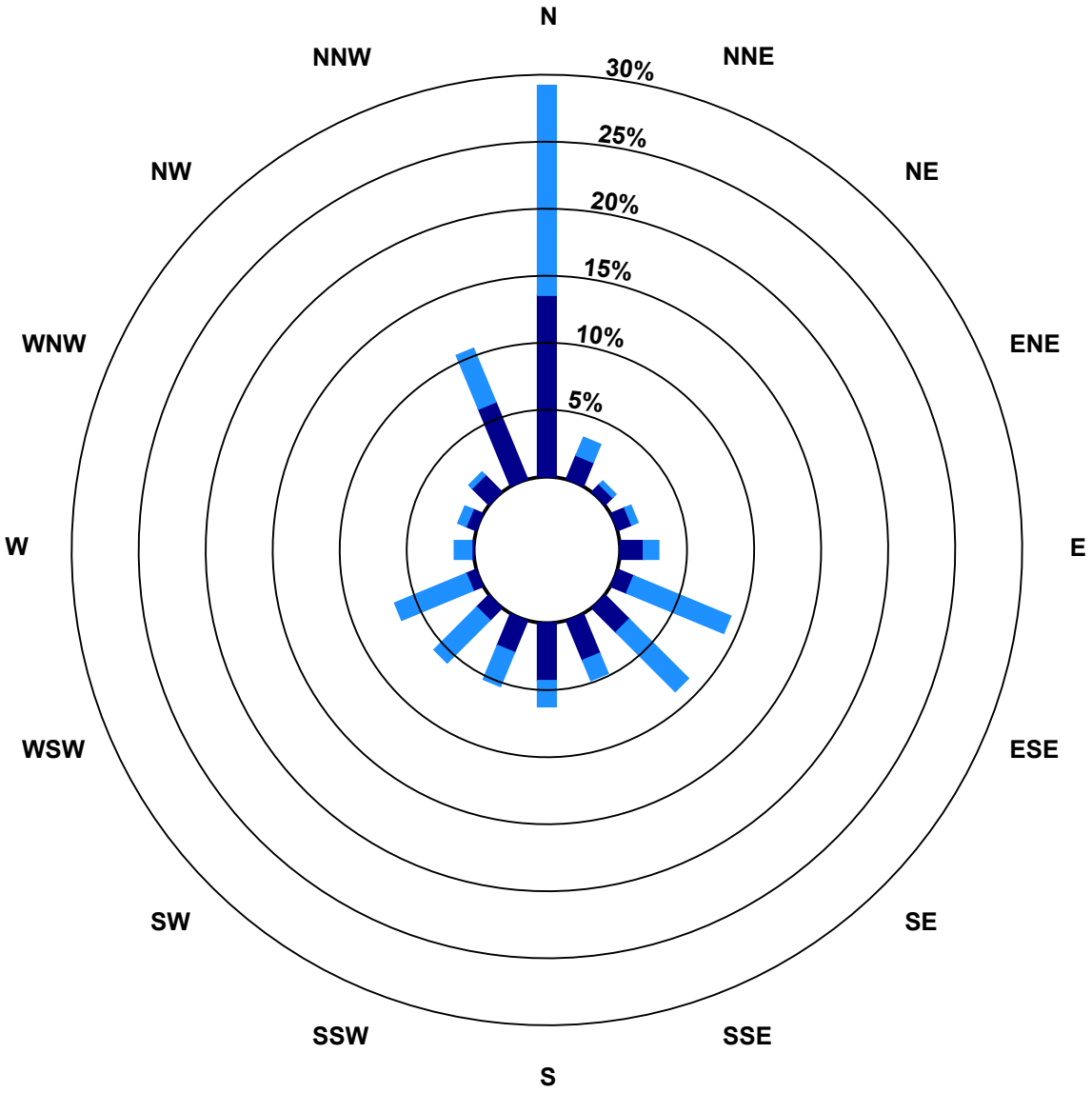
Ozone (O_3) - ppb

Patricia McInnes - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	85	12	5	7	11	8	16	20	27	16	8	5	1	5	11	39	276
21 - 50	98	9	2	3	7	49	39	10	12	17	28	36	8	4	2	27	351
51 - 82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	183	21	7	10	18	57	55	30	39	33	36	41	9	9	13	66	627

Total Number of Valid Hours: 627

Total Number of Hours: 672



Classes (ppb)

0 - 20

21 - 50

51 - 82

> 83

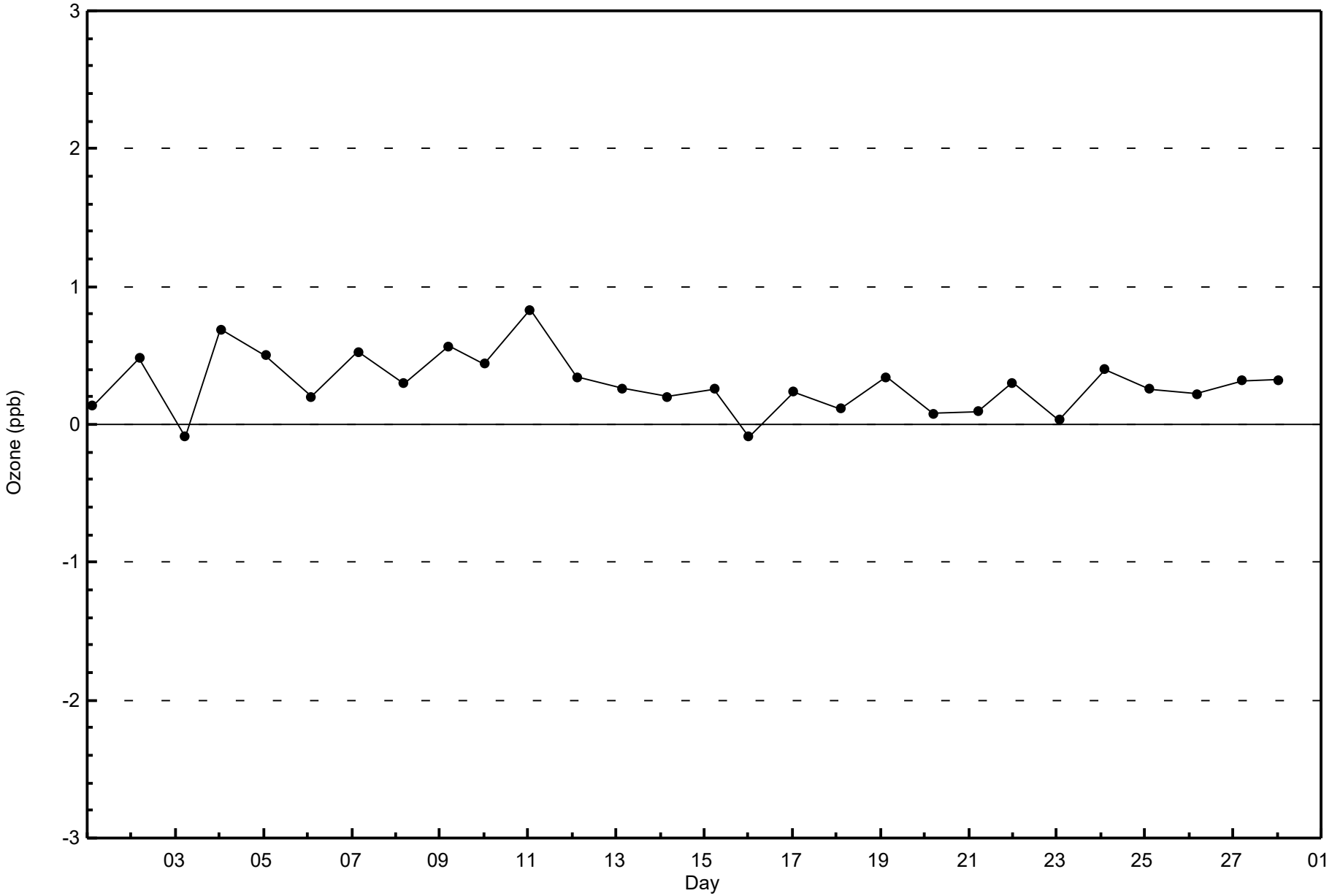
Total Number of Valid Hours: 627

Wood Buffalo Environmental Association

Zero Responses

Ozone (O_3) - ppb

Patricia McInnes - February 2026

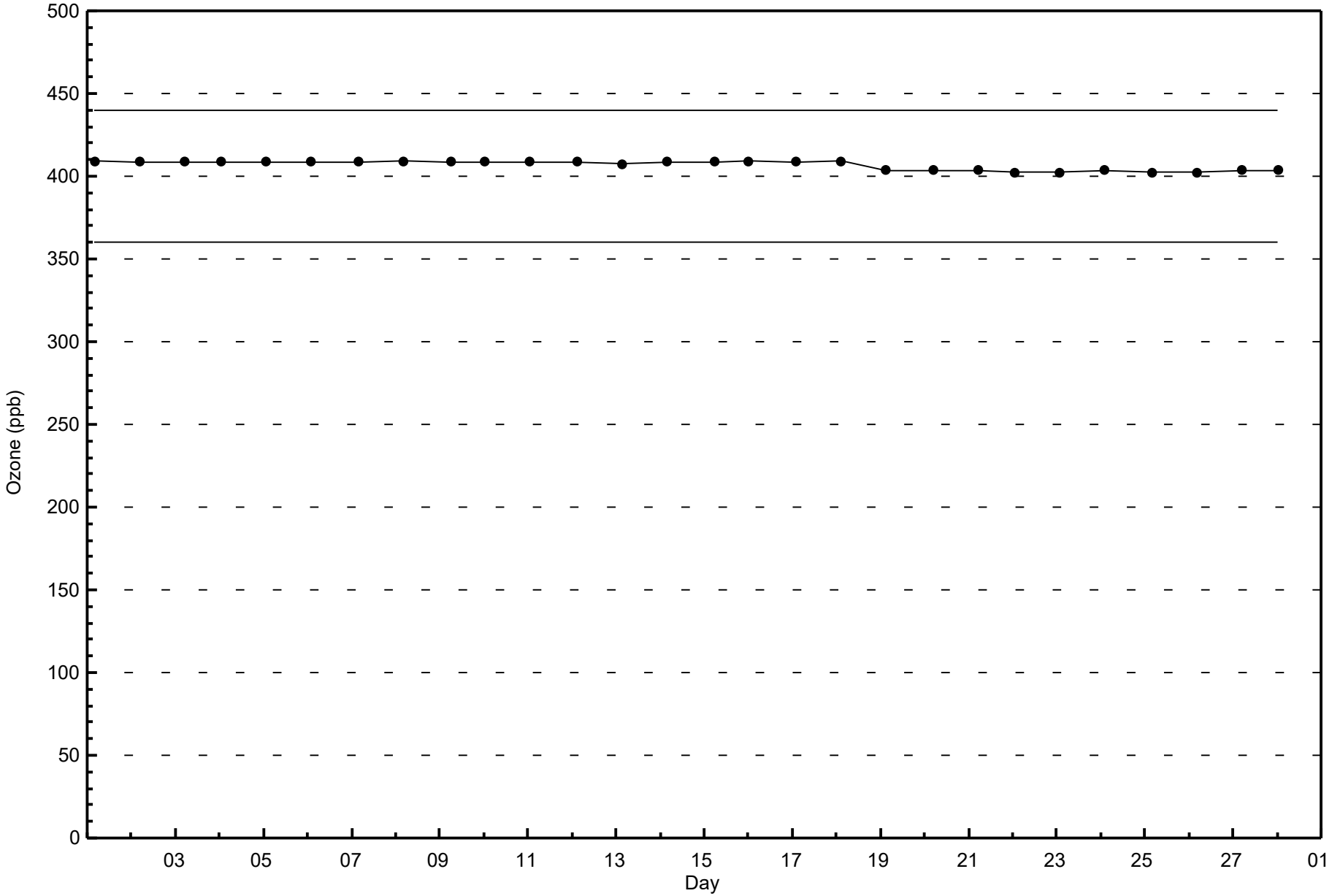


Wood Buffalo Environmental Association

Span Responses

Ozone (O_3) - ppb

Patricia McInnes - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Patricia McInnes - February 2026

Maximum Value: 57.4 ppb on Feb 11 19:00

Maximum Daily Average: 13.9 ppb on Feb 28

Minimum Value: 0.0 ppb on Feb 3 05:00

Minimum Daily Average: 0.2 ppb on Feb 4

Maximum Diurnal Average: 7.2 ppb at hour 19

Minimum Diurnal Average: 1.2 ppb at hour 24

Monthly Average: 3.93 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.4 Median = 1.3 Q_3 = 4.1 P_{90} = 11.7 P_{99} = 33.4

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.9	0.8	0.3	0.4	0.3	Z	1.7	1.0	1.9	3.0	6.7	13.6	5.6	2.2	1.7	1.9	1.5	1.1	1.1	0.9	0.7	0.7	0.4	0.4	2.1	13.6
2-Feb	Z	0.9	0.6	0.6	0.6	0.9	0.7	1.4	1.3	2.1	1.6	2.5	3.3	5.0	4.2	5.8	2.9	4.1	6.4	0.1	1.7	0.7	0.6	0.2	2.1	6.4
3-Feb	0.1	Z	0.1	0.1	0.0	0.1	0.0	0.2	0.7	1.0	2.5	2.7	4.8	6.8	5.7	5.3	2.7	2.1	1.5	1.5	1.0	1.3	0.9	0.4	1.8	6.8
4-Feb	0.5	0.3	Z	0.6	0.1	0.2	0.1	0.0	0.1	0.2	0.2	0.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.6
5-Feb	0.0	0.0	0.1	Z	0.0	0.2	0.3	0.3	0.5	0.8	1.0	1.9	1.8	1.5	1.9	1.5	1.1	1.5	2.8	2.0	1.4	1.0	1.1	0.7	1.0	2.8
6-Feb	0.5	0.4	0.4	0.4	Z	0.9	1.5	1.2	1.7	1.5	1.5	1.5	1.6	1.7	1.6	2.9	1.5	3.7	3.0	1.4	2.1	0.6	0.3	3.7	1.5	3.7
7-Feb	0.0	0.0	0.0	0.0	1.3	Z	1.3	0.1	0.3	0.5	0.6	1.0	0.9	1.1	1.5	1.0	0.2	0.7	0.2	0.1	0.5	0.1	0.2	0.2	0.5	1.5
8-Feb	Z	0.0	0.1	0.1	0.3	1.2	1.2	4.9	9.4	6.0	6.7	7.4	5.6	11.7	9.7	3.9	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.0	11.7
9-Feb	0.0	Z	0.3	1.2	1.4	4.1	3.8	1.1	2.7	3.1	C	C	C	C	C	C	1.0	0.3	0.3	0.1	0.1	0.1	0.0	0.0	--	4.1
10-Feb	0.0	0.1	Z	0.0	0.1	0.2	1.3	1.3	4.8	9.9	14.1	6.3	3.6	2.4	2.4	3.1	3.9	14.9	34.1	38.5	8.4	4.1	3.6	4.3	7.0	38.5
11-Feb	6.8	5.6	2.0	Z	8.9	16.2	31.9	15.8	20.1	52.1	31.2	23.7	0.9	0.8	1.5	0.7	1.1	3.3	57.4	15.2	1.3	0.4	0.2	0.3	12.9	57.4
12-Feb	0.9	0.2	0.1	0.0	Z	0.1	0.3	1.9	4.7	2.8	2.4	2.0	2.1	1.9	2.2	4.4	1.8	0.5	0.5	0.4	0.2	0.2	0.1	0.1	1.3	4.7
13-Feb	0.1	0.1	0.2	0.2	0.2	Z	0.2	0.2	1.1	0.8	0.3	0.4	0.4	0.5	0.5	0.5	0.4	1.7	1.0	0.1	0.0	0.3	0.1	0.2	0.4	1.7
14-Feb	Z	0.6	0.4	0.2	0.3	0.2	1.1	1.5	1.8	0.9	0.7	0.5	0.5	0.3	0.2	0.3	0.6	1.4	0.0	3.1	20.5	26.7	25.6	7.3	4.1	26.7
15-Feb	30.4	Z	12.6	0.1	0.0	0.1	0.3	0.0	0.5	1.3	1.5	2.5	2.3	3.5	4.4	4.9	3.9	2.6	1.2	1.0	1.4	0.6	0.6	0.4	3.3	30.4
16-Feb	0.3	0.4	Z	0.1	0.3	0.6	1.8	1.3	5.7	13.8	41.3	21.3	12.1	22.6	9.8	6.9	11.4	6.6	1.3	0.9	1.8	0.9	0.8	0.8	7.1	41.3
17-Feb	0.6	0.6	0.7	Z	0.7	0.9	1.0	1.3	2.2	2.2	2.4	2.0	1.6	1.7	1.4	1.3	1.2	0.9	0.8	0.7	1.2	0.4	0.4	0.4	1.2	2.4
18-Feb	0.5	0.6	0.7	0.7	Z	1.3	2.5	1.9	2.9	2.2	2.1	2.2	2.5	2.8	2.7	3.1	2.2	2.2	1.1	1.1	1.7	5.8	4.5	2.8	2.2	5.8
19-Feb	1.9	2.0	4.7	6.4	9.9	Z	11.8	15.7	12.2	10.4	5.3	2.8	1.7	1.6	1.2	1.3	1.7	11.7	13.5	16.3	9.9	7.3	3.2	1.6	6.7	16.3
20-Feb	Z	1.5	1.7	21.7	18.5	14.0	26.3	24.5	35.8	15.9	11.5	7.2	10.3	9.9	8.5	4.9	2.7	2.2	6.6	8.8	0.5	0.3	0.2	0.3	10.2	35.8
21-Feb	0.3	Z	0.2	0.2	0.2	0.9	0.7	0.9	3.0	4.7	6.1	6.5	3.6	4.2	4.1	2.5	1.9	1.1	1.3	0.8	1.1	0.6	0.5	0.6	2.0	6.5
22-Feb	0.6	0.4	Z	0.6	0.2	0.5	1.0	1.5	5.3	7.2	8.8	12.3	14.3	15.2	14.8	15.7	12.6	12.7	19.4	2.0	2.0	1.5	0.7	0.5	6.5	19.4
23-Feb	0.4	0.7	0.6	Z	1.0	2.0	2.2	3.5	13.8	6.9	9.0	11.6	7.2	10.4	10.3	10.4	3.8	4.9	7.5	1.0	1.3	6.1	14.9	1.5	5.7	14.9
24-Feb	0.3	1.8	2.7	6.0	Z	12.6	19.6	12.3	4.6	3.3	2.6	2.8	2.4	1.8	0.7	0.8	2.0	9.2	12.2	5.8	2.4	1.1	0.8	0.6	4.7	19.6
25-Feb	0.8	0.6	0.5	0.5	0.1	Z	0.6	0.4	7.0	5.9	5.2	3.8	2.8	4.0	5.5	5.8	5.2	12.7	16.0	0.9	2.2	2.5	0.5	0.2	3.6	16.0
26-Feb	Z	0.3	0.2	0.2	0.2	0.4	0.7	0.9	2.5	3.3	3.0	3.6	2.5	2.3	1.4	1.2	0.8	0.7	1.1	0.4	0.6	0.3	0.4	0.8	1.2	3.6
27-Feb	0.4	Z	0.2	0.2	0.3	0.5	1.1	0.1	1.3	2.9	2.5	3.9	3.6	4.0	4.1	4.2	2.7	1.2	0.0	0.0	4.7	0.4	0.7	4.1	1.9	4.7
28-Feb	4.9	15.9	Z	6.5	1.9	22.0	21.4	21.6	32.3	15.0	9.5	11.1	10.1	7.1	4.8	4.4	9.7	14.4	12.0	39.5	21.4	26.4	5.7	2.3	13.9	39.5
	2.2	1.5	1.3	2.0	1.9	3.5	4.9	4.2	6.4	6.4	6.7	5.8	4.0	4.7	4.0	3.7	2.9	4.2	7.2	5.1	3.2	3.2	2.4	1.2	Diurnal Average	
	30.4	15.9	12.6	21.7	18.5	22.0	31.9	24.5	35.8	52.1	41.3	23.7	14.3	22.6	14.8	15.7	12.6	14.9	57.4	39.5	21.4	26.7	25.6	7.3	Diurnal Maximum	

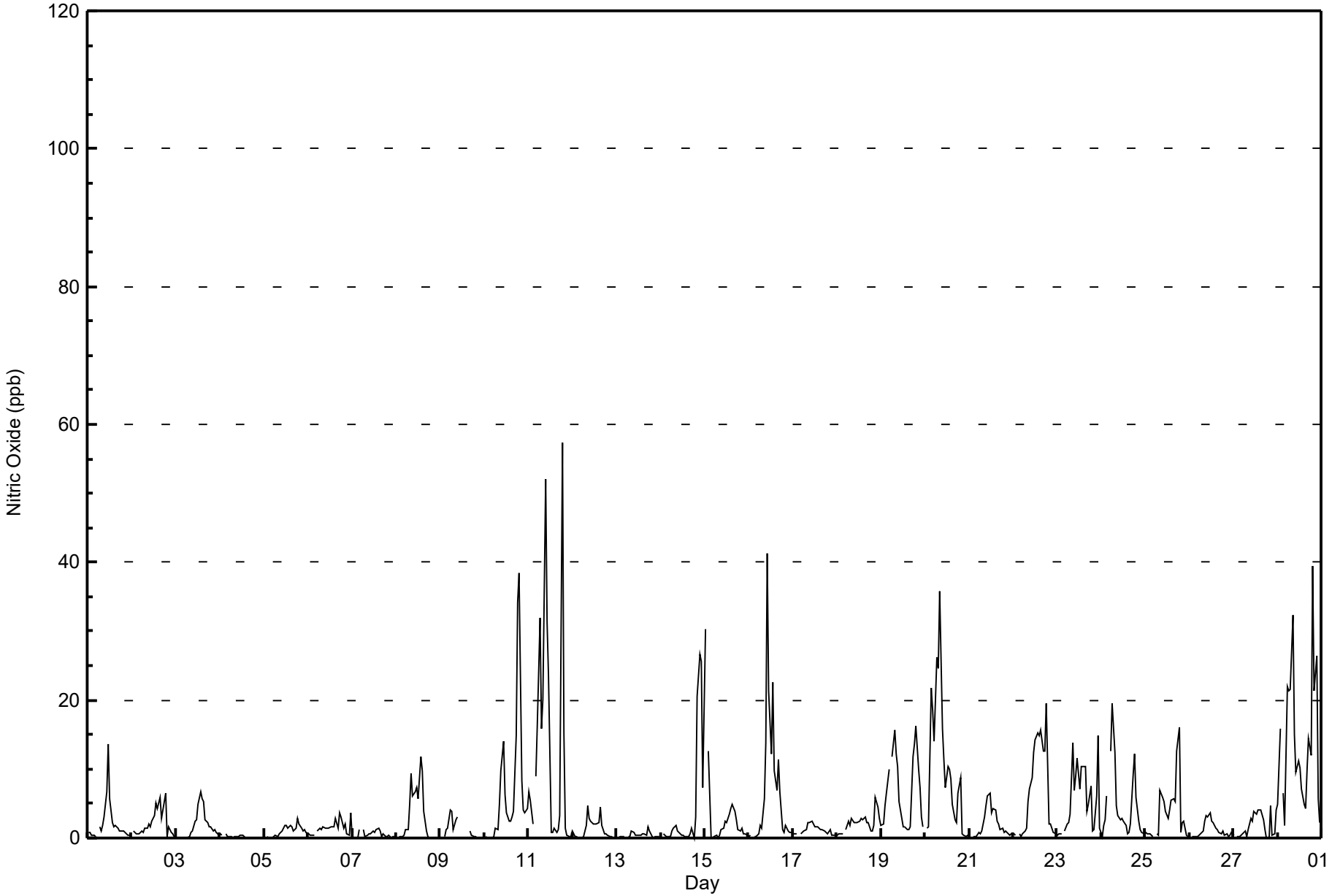
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Patricia McInnes - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	614	96.24	96.24
21 - 40	21	3.29	99.53
11 - 80	3	0.47	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Patricia McInnes - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	184	16	6	11	16	56	55	22	33	32	36	40	9	8	13	65	602
21 - 40	0	2	1	0	2	0	1	8	5	1	0	0	0	0	0	1	21
11 - 80	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	3
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	184	19	7	11	18	57	56	31	38	33	36	40	9	8	13	66	626

Total Number of Valid Hours: 626

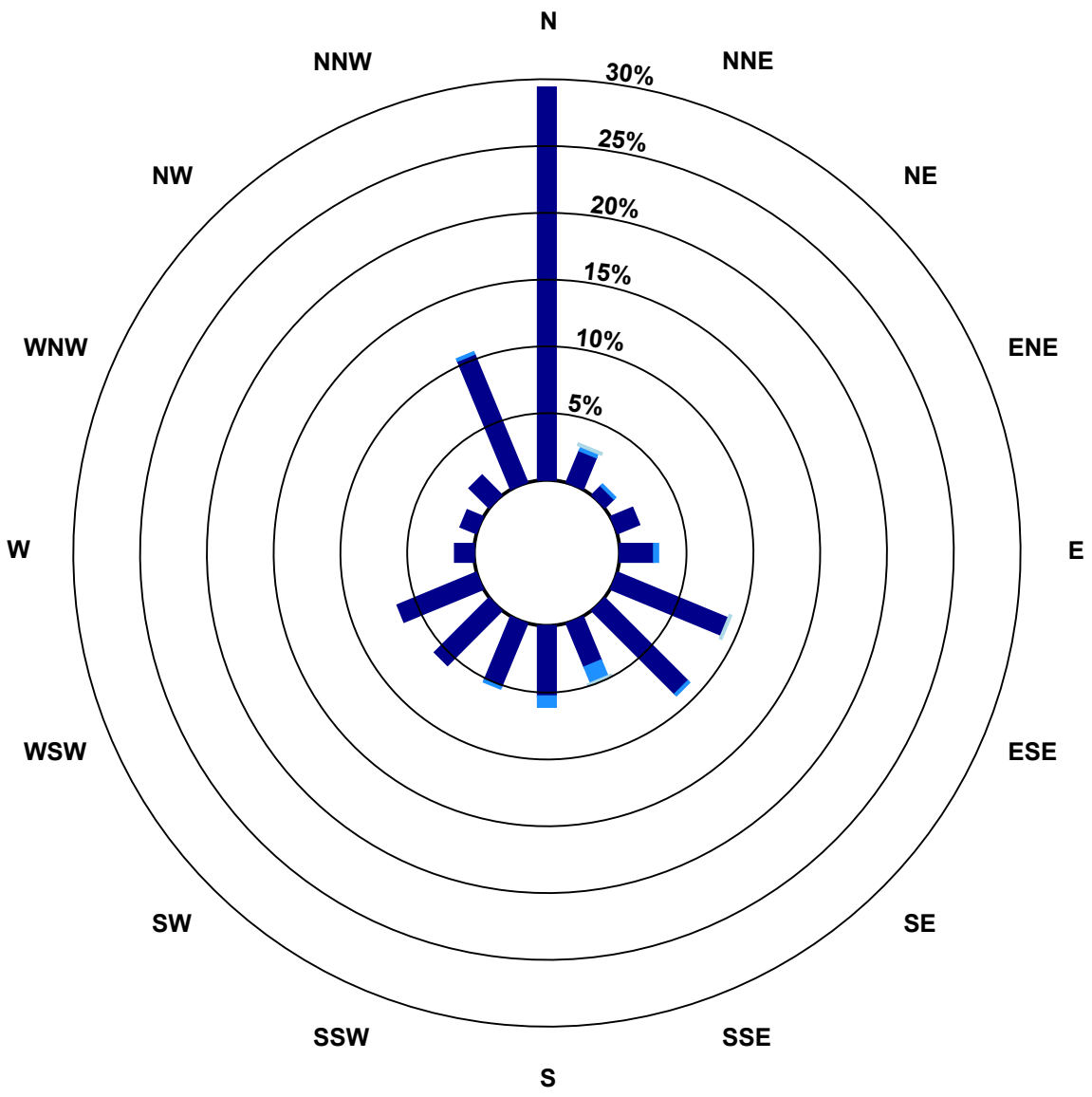
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Patricia McInnes



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

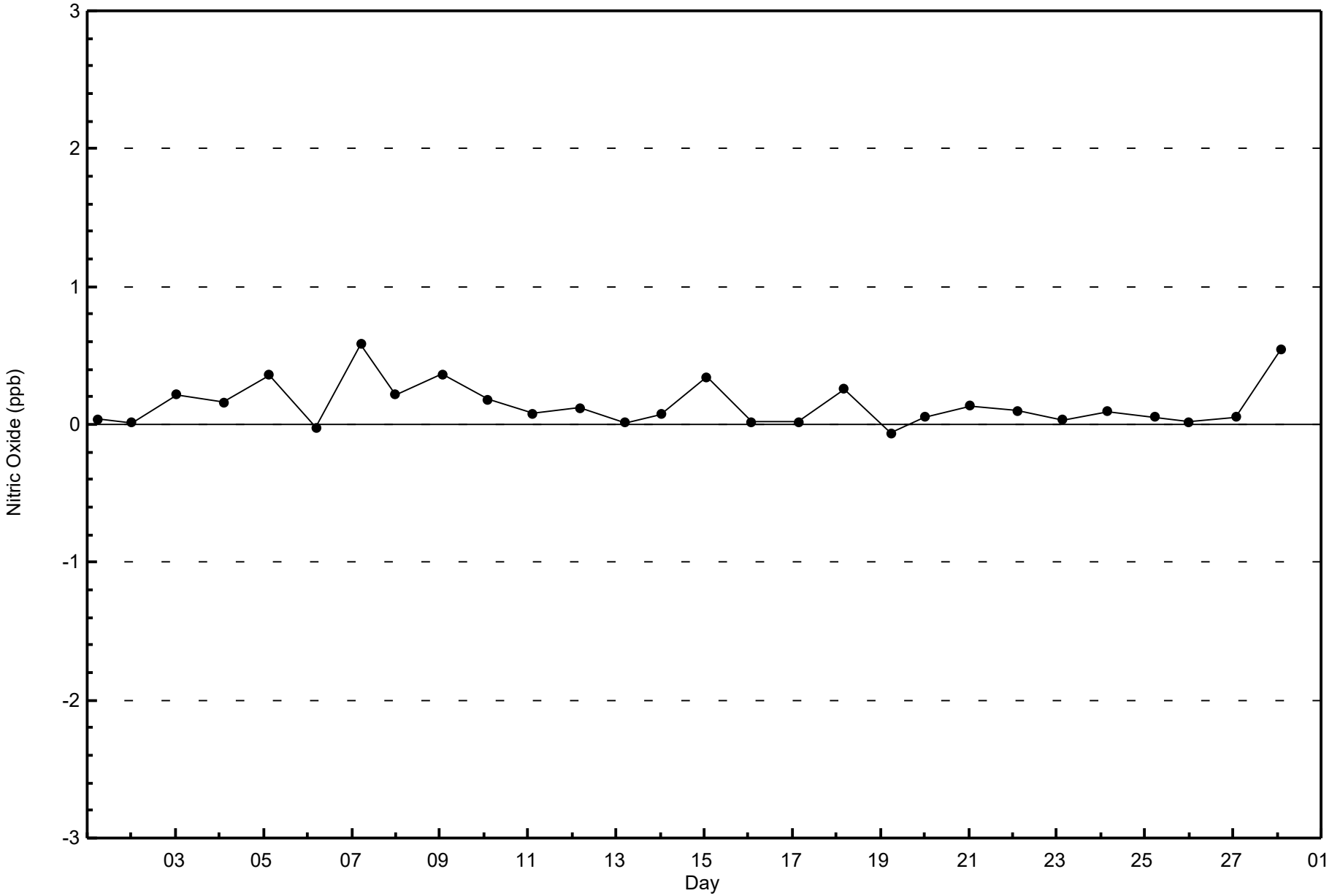
Total Number of Valid Hours: 626

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Patricia McInnes - February 2026

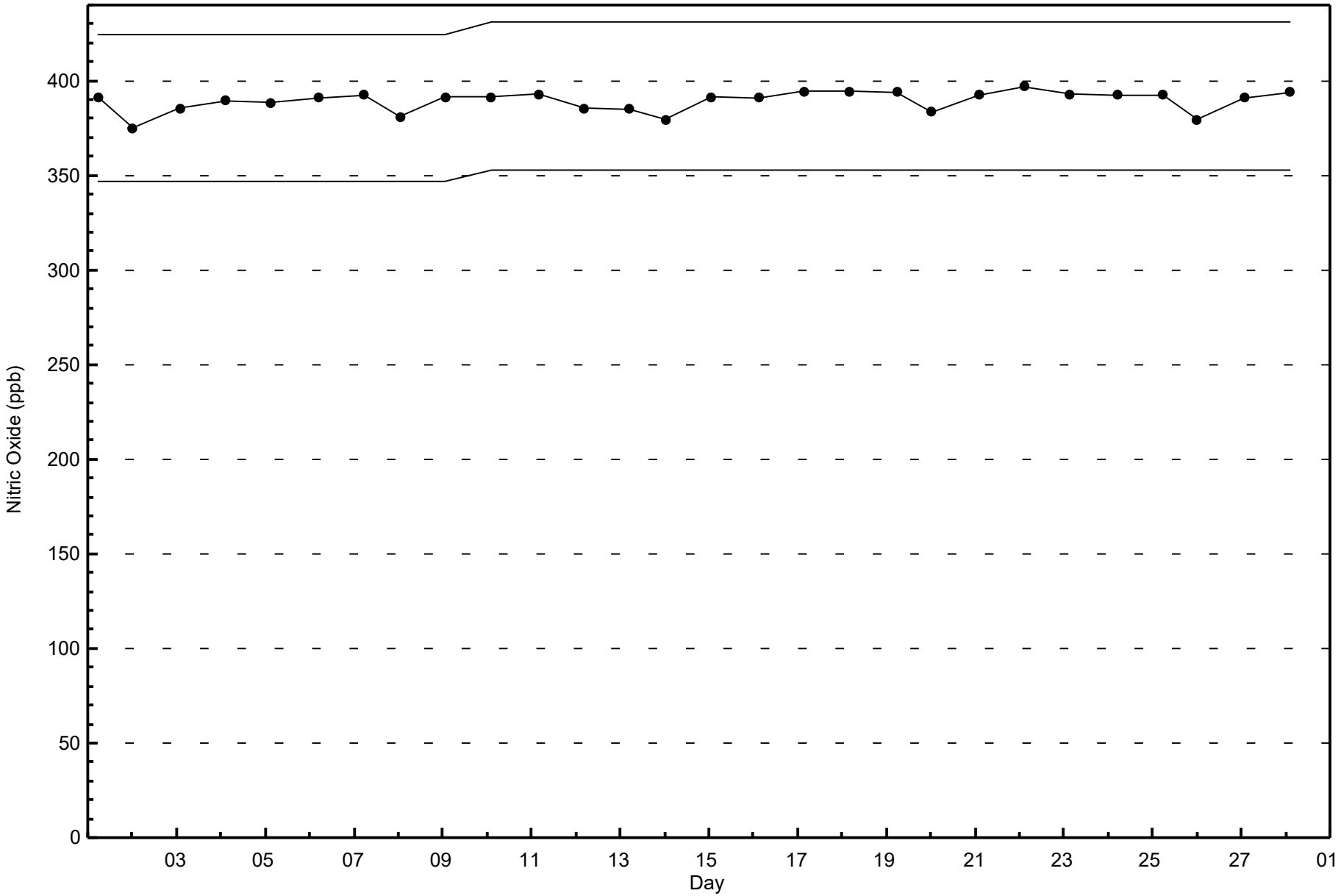


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Patricia McInnes - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Patricia McInnes - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 47.7 ppb on Feb 11 19:00 Maximum Daily Average: 19.9 ppb on Feb 20

Minimum Value: 0.4 ppb on Feb 13 03:00 Minimum Daily Average: 1.9 ppb on Feb 18
Maximum Diurnal Average: 15.7 ppb at hour 19 Minimum Diurnal Average: 4.5 ppb at hour 13
Monthly Average: 9.42 ppb Percentiles: P_1 = 0.5 P_{10} = 1.9 Q_1 = 3.7 Median = 6.3 Q_3 = 12.3 P_{90} = 21.7 P_{99} = 37.3

Hours in Service: 672
Hours of Data: 638
Hours of Missing Data: 34
Hours of Calibration: 34
Percent Operational Time: 100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	9.7	8.4	5.5	3.8	4.7	Z	8.5	6.5	4.7	5.2	5.7	6.0	5.7	3.8	3.2	4.2	4.3	4.0	3.4	3.2	2.6	3.1	2.3	2.5	4.8	9.7
2-Feb	Z	2.4	2.4	2.8	3.7	4.1	4.1	5.3	5.8	6.5	5.2	6.0	8.1	9.0	10.0	13.4	13.0	20.7	26.6	12.2	14.2	15.1	16.7	15.3	9.7	26.6
3-Feb	12.6	Z	6.8	5.3	2.8	5.0	4.6	4.8	9.6	6.3	8.5	7.4	11.2	14.1	13.7	14.2	9.8	8.7	7.0	8.1	7.2	5.9	4.1	3.7	7.9	14.2
4-Feb	4.6	3.4	Z	7.5	3.6	3.0	2.3	1.9	2.3	1.5	1.2	1.2	1.4	1.2	0.8	0.8	1.3	1.0	3.7	6.6	5.2	5.2	4.1	5.1	3.0	7.5
5-Feb	3.8	3.3	3.6	Z	3.6	3.8	4.0	3.9	4.0	3.9	3.4	4.2	4.1	3.9	5.2	7.0	9.6	12.3	16.2	19.2	15.2	17.0	17.8	14.9	8.0	19.2
6-Feb	12.1	8.0	5.0	3.0	Z	4.1	5.1	4.3	4.7	4.0	4.0	3.9	3.8	3.2	2.6	5.1	4.5	6.5	7.6	5.3	4.0	2.5	2.8	9.1	5.0	12.1
7-Feb	5.4	2.2	3.1	2.3	11.7	Z	17.2	6.1	5.3	4.2	3.6	4.0	3.0	3.9	4.6	5.9	5.0	6.9	9.5	10.3	10.1	9.1	8.6	8.6	6.5	17.2
8-Feb	Z	10.7	13.5	16.7	19.8	27.6	28.7	31.1	29.8	21.2	14.6	13.9	9.9	14.4	17.6	13.2	8.9	8.0	5.5	3.4	5.2	5.6	5.0	5.9	14.4	31.1
9-Feb	7.7	Z	11.6	24.8	19.9	24.3	20.2	11.6	12.2	9.5	C	C	C	C	C	C	6.9	6.7	8.6	7.2	6.0	6.3	6.4	7.6	--	24.8
10-Feb	8.2	9.0	Z	10.4	11.1	15.1	20.9	25.7	23.9	18.5	16.7	9.1	5.5	4.1	4.7	6.9	9.4	25.7	30.8	31.0	21.6	15.2	14.9	16.0	15.4	31.0
11-Feb	19.4	17.5	11.9	Z	27.9	32.2	38.1	33.4	31.6	35.1	25.8	20.9	2.3	2.1	3.3	2.6	5.9	22.7	47.7	37.6	13.0	3.4	2.3	6.5	19.3	47.7
12-Feb	13.3	3.9	1.1	0.8	Z	1.2	3.4	14.5	19.7	8.9	6.1	3.8	3.8	4.2	6.9	14.4	10.7	5.4	7.8	3.7	3.8	2.1	1.2	0.9	6.2	19.7
13-Feb	0.6	0.5	0.4	0.4	0.4	Z	1.1	2.9	6.2	2.5	0.9	0.7	0.7	0.9	1.3	1.5	2.0	16.5	11.5	3.7	2.3	8.0	2.9	3.2	3.1	16.5
14-Feb	Z	9.2	7.7	3.2	4.1	4.0	12.6	17.4	13.8	4.4	2.1	1.4	1.4	1.2	1.2	1.9	4.8	17.8	3.2	22.4	44.0	43.2	41.7	37.0	13.0	44.0
15-Feb	36.6	Z	27.9	6.8	3.1	5.1	3.9	3.8	4.6	4.5	3.5	4.3	3.5	5.1	6.3	8.2	10.8	13.9	11.8	12.6	14.3	11.4	9.6	7.0	9.5	36.6
16-Feb	6.5	5.8	Z	4.6	3.8	6.5	12.0	13.2	13.6	13.9	19.7	12.5	7.8	12.7	7.4	7.6	15.0	17.5	5.8	6.5	7.8	7.6	6.7	6.1	9.6	19.7
17-Feb	7.1	9.0	6.2	Z	6.8	5.7	5.7	6.3	4.3	3.0	2.6	2.2	2.0	2.2	1.9	1.9	1.7	2.1	2.5	2.1	2.3	1.7	1.5	1.1	3.6	9.0
18-Feb	1.0	0.8	0.9	0.5	Z	0.7	1.2	1.2	1.5	0.8	0.8	0.8	0.5	0.6	0.5	0.9	1.0	1.9	2.9	4.0	5.0	6.1	5.2	4.9	1.9	6.1
19-Feb	4.6	4.7	5.3	6.2	7.1	Z	7.9	9.8	6.4	4.0	1.9	1.1	0.9	1.2	1.3	1.9	3.8	21.9	31.9	33.0	30.1	28.4	21.6	15.9	10.9	33.0
20-Feb	Z	14.4	15.4	36.4	35.7	32.6	36.8	32.3	32.6	17.4	12.6	7.9	10.3	10.9	11.1	9.5	10.3	21.2	37.3	34.7	12.3	7.7	7.3	11.4	19.9	37.3
21-Feb	10.7	Z	7.1	7.6	8.6	10.5	9.9	12.6	11.4	9.2	7.0	6.1	4.3	4.8	4.9	4.0	6.2	6.1	10.0	9.7	8.0	6.3	4.7	4.8	7.6	12.6
22-Feb	4.6	5.1	Z	6.0	6.1	6.8	7.2	7.9	5.1	3.8	3.7	4.2	4.3	5.7	8.1	9.5	11.1	16.2	23.1	7.9	4.2	4.0	2.9	2.5	7.0	23.1
23-Feb	2.1	2.2	1.6	Z	3.5	7.3	7.8	10.9	16.5	12.0	9.3	9.8	7.3	10.2	10.9	13.3	10.1	15.4	24.8	19.6	17.5	20.5	24.7	15.9	11.9	24.8
24-Feb	9.6	17.0	18.3	17.1	Z	21.2	26.3	22.8	8.9	4.1	2.3	2.6	2.1	1.6	1.1	1.7	5.8	27.6	33.0	22.0	9.5	6.5	5.3	3.8	11.7	33.0
25-Feb	4.0	4.4	5.9	8.4	10.7	Z	6.6	5.6	12.5	9.3	7.4	4.5	4.0	6.2	8.7	9.6	13.6	31.0	35.4	19.5	28.7	28.6	18.8	10.9	12.8	35.4
26-Feb	Z	9.8	7.2	8.0	9.0	9.2	10.5	11.7	12.3	11.4	8.4	6.2	4.5	2.9	2.3	2.4	2.8	3.1	4.4	3.1	2.8	2.5	2.7	3.8	6.1	12.3
27-Feb	4.7	Z	2.3	2.2	2.4	3.7	5.3	1.4	2.4	2.8	1.8	2.2	1.9	2.4	2.8	3.5	4.0	5.5	4.7	7.5	16.4	13.0	14.3	19.8	5.5	19.8
28-Feb	18.7	21.4	Z	16.7	11.9	23.1	25.2	23.4	22.5	11.6	7.0	7.6	7.3	6.0	5.3	6.1	15.4	25.5	22.5	37.3	34.4	33.8	24.2	15.5	18.4	37.3
	9.0	7.5	7.4	8.4	9.3	11.2	12.0	11.9	11.7	8.6	6.9	5.7	4.5	5.1	5.5	6.3	7.4	13.3	15.7	14.1	12.4	11.4	10.0	9.3	Diurnal Average	
	36.6	21.4	27.9	36.4	35.7	32.6	38.1	33.4	32.6	35.1	25.8	20.9	11.2	14.4	17.6	14.4	15.4	31.0	47.7	37.6	44.0	43.2	41.7	37.0	Diurnal Maximum	

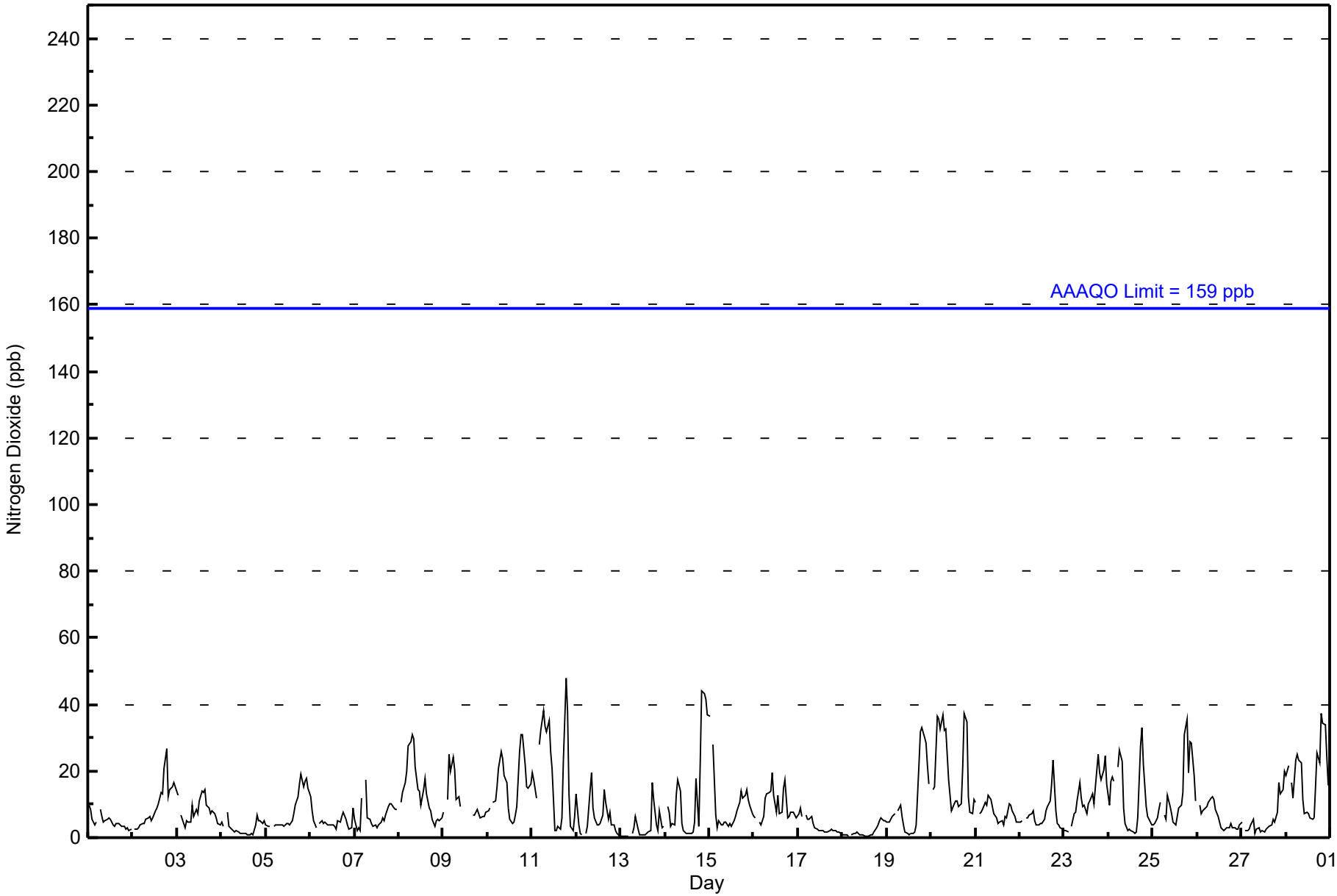
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Patricia McInnes - February 2026



Nitrogen Dioxide (NO_2) - ppb

Patricia McInnes - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	564	88.40	88.40
21 - 40	70	10.97	99.37
11 - 80	4	0.63	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Patricia McInnes - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	179	17	6	9	12	53	51	14	26	29	33	39	9	8	12	55	552
21 - 40	5	1	1	2	6	4	5	16	12	3	3	1	0	0	1	10	70
11 - 80	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	4
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	184	19	7	11	18	57	56	31	38	33	36	40	9	8	13	66	626

Total Number of Valid Hours: 626

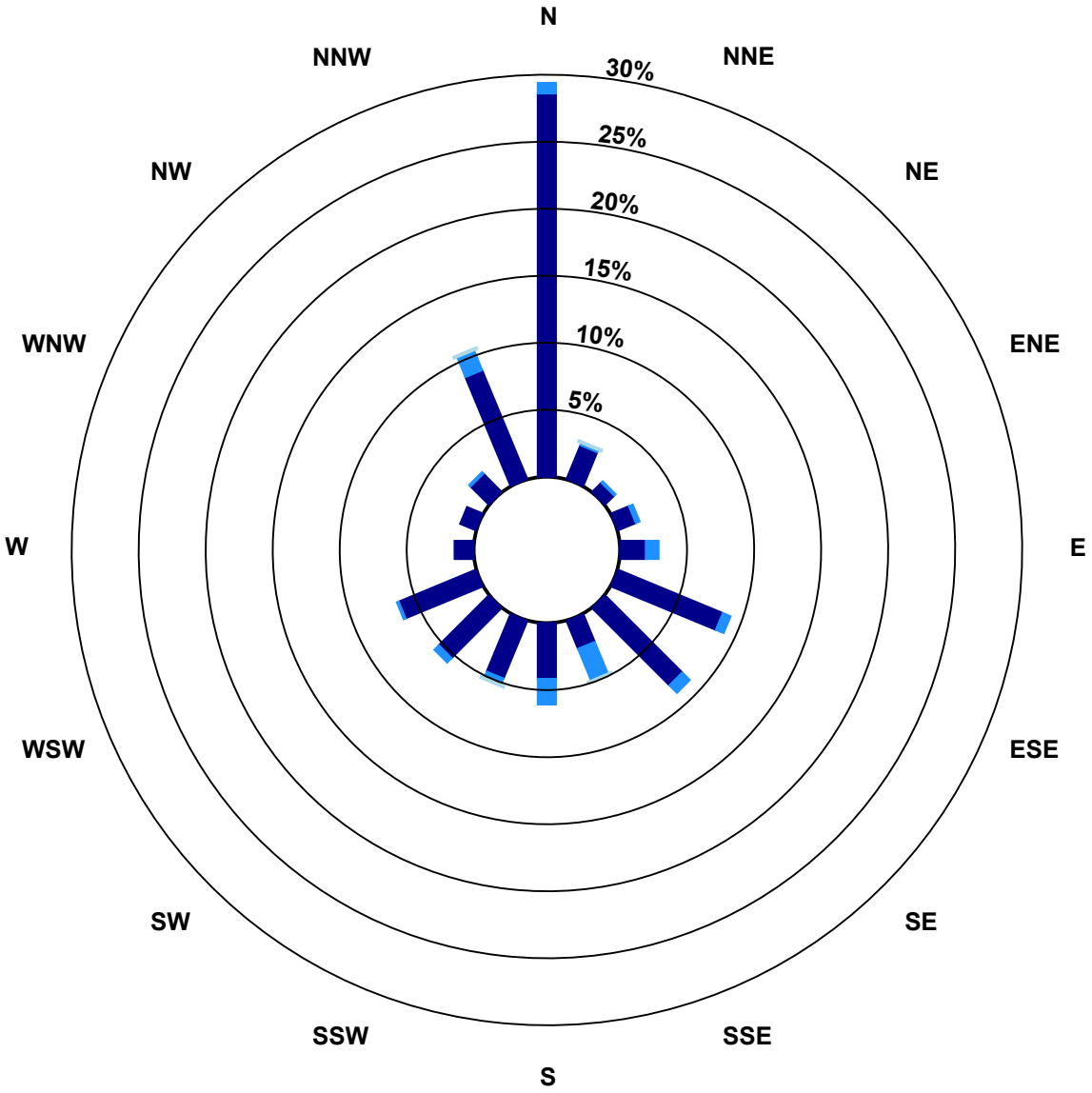
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Patricia McInnes



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

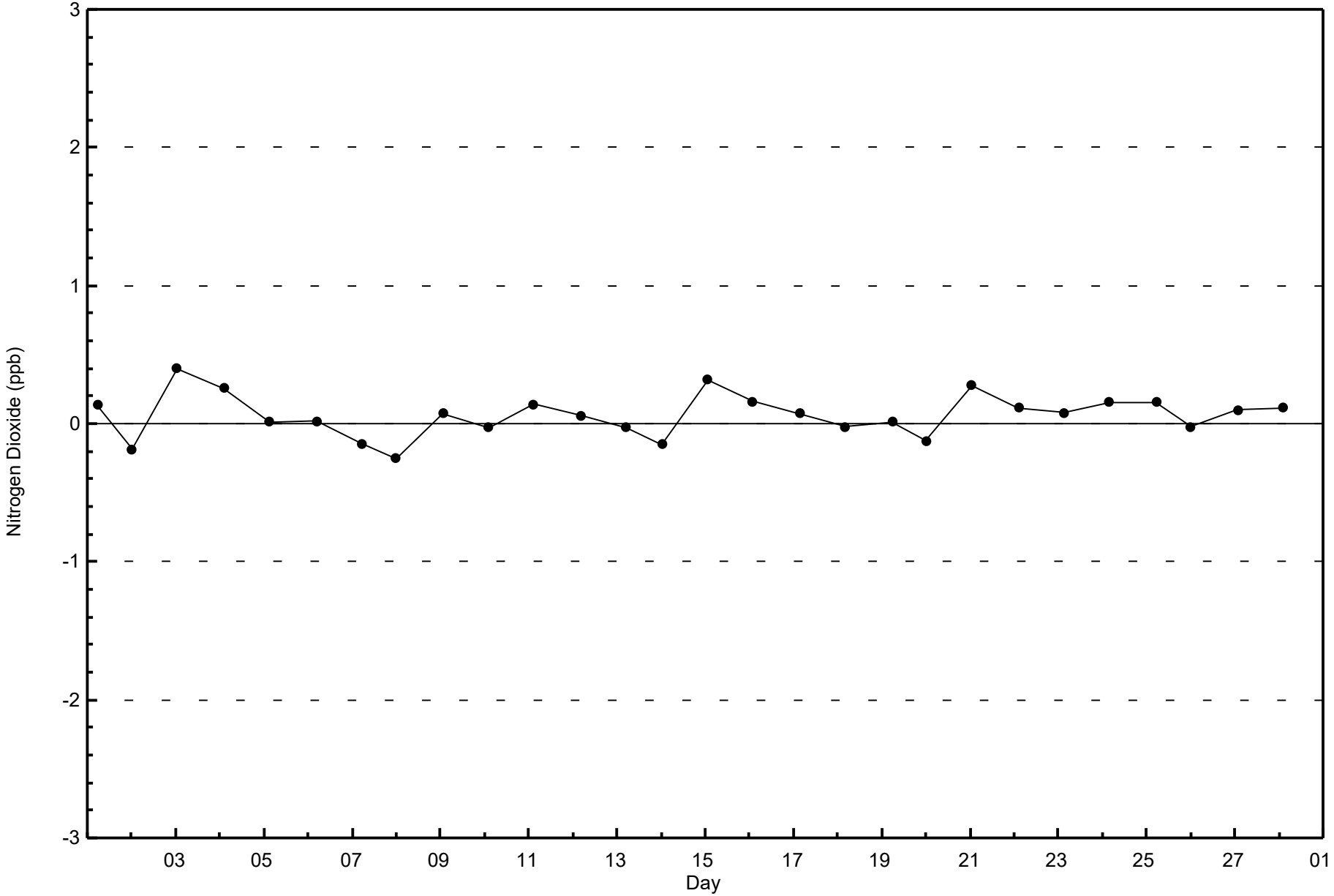
Total Number of Valid Hours: 626

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Patricia McInnes - February 2026

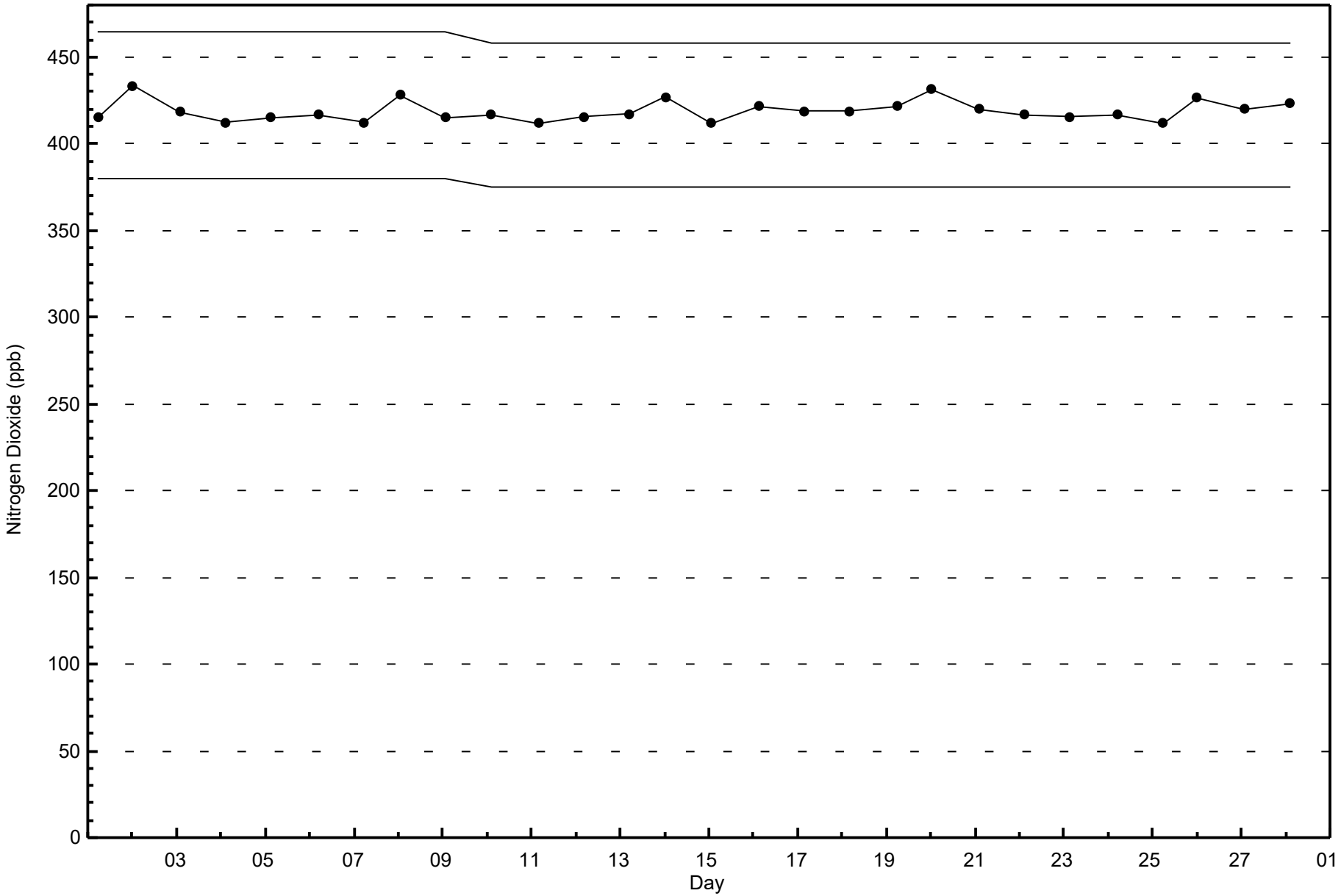


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Patricia McInnes - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Patricia McInnes - February 2026

Maximum Value: 105.1 ppb on Feb 11 19:00

Maximum Daily Average: 32.3 ppb on Feb 28

Minimum Value: 0.6 ppb on Feb 13 04:00

Minimum Daily Average: 3.1 ppb on Feb 4

Maximum Diurnal Average: 22.9 ppb at hour 19

Minimum Diurnal Average: 8.5 ppb at hour 13

Monthly Average: 13.35 ppb

Percentiles: P_1 = 0.8 P_{10} = 2.9 Q_1 = 4.6 Median = 8.1 Q_3 = 16.6 P_{90} = 29.9 P_{99} = 68.0

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	10.6	9.2	5.8	4.2	5.0	Z	10.2	7.5	6.6	8.2	12.4	19.6	11.3	6.0	4.9	6.1	5.8	5.1	4.5	4.1	3.3	3.8	2.7	2.9	6.9	19.6
2-Feb	Z	3.3	3.0	3.4	4.3	5.0	4.8	6.7	7.1	8.6	6.8	8.5	11.4	14.0	14.2	19.2	15.9	24.8	33.0	12.3	15.9	15.8	17.3	15.5	11.8	33.0
3-Feb	12.7	Z	6.9	5.4	2.8	5.1	4.6	5.0	10.3	7.3	11.0	10.1	16.0	20.9	19.4	19.5	12.5	10.8	8.5	9.6	8.2	7.2	5.0	4.1	9.7	20.9
4-Feb	5.1	3.7	Z	8.1	3.7	3.2	2.4	1.9	2.4	1.7	1.4	1.5	1.9	1.5	0.8	0.8	1.3	1.0	3.7	6.6	5.3	5.2	4.1	5.1	3.1	8.1
5-Feb	3.8	3.3	3.7	Z	3.6	4.0	4.3	4.2	4.5	4.7	4.4	6.1	5.9	5.4	7.1	8.5	10.7	13.8	19.0	21.2	16.6	18.0	18.9	15.6	9.0	21.2
6-Feb	12.6	8.4	5.4	3.4	Z	5.0	6.6	5.5	6.4	5.5	5.5	5.4	5.4	4.9	4.2	8.0	6.0	10.2	10.6	6.7	6.1	3.1	3.1	12.8	6.5	12.8
7-Feb	5.4	2.2	3.1	2.3	13.0	Z	18.5	6.2	5.6	4.7	4.2	5.0	3.9	5.0	6.1	6.9	5.2	7.6	9.7	10.4	10.6	9.2	8.8	8.8	7.1	18.5
8-Feb	Z	10.7	13.6	16.8	20.1	28.8	29.9	36.0	39.2	27.2	21.3	21.3	15.5	26.1	27.3	17.1	9.9	8.1	5.5	3.4	5.2	5.6	5.0	5.9	17.4	39.2
9-Feb	7.7	Z	11.9	26.0	21.3	28.4	24.0	12.7	14.9	12.6	C	C	C	C	C	C	7.9	7.0	8.9	7.3	6.1	6.4	6.4	7.6	--	28.4
10-Feb	8.2	9.1	Z	10.4	11.2	15.3	22.2	27.0	28.7	28.4	30.8	15.4	9.1	6.5	7.1	10.0	13.3	40.6	64.9	69.5	30.0	19.3	18.5	20.3	22.4	69.5
11-Feb	26.2	23.1	13.9	Z	36.8	48.4	70.0	49.2	51.7	87.2	57.0	44.6	3.2	2.9	4.8	3.3	7.0	26.0	105.1	52.8	14.3	3.8	2.5	6.8	32.2	105.1
12-Feb	14.2	4.1	1.2	0.8	Z	1.3	3.7	16.4	24.4	11.7	8.5	5.8	5.9	6.1	9.1	18.8	12.5	5.9	8.3	4.1	4.0	2.3	1.3	1.0	7.5	24.4
13-Feb	0.7	0.6	0.6	0.6	0.6	Z	1.3	3.1	7.3	3.3	1.2	1.1	1.1	1.4	1.8	2.0	2.4	18.2	12.5	3.8	2.3	8.3	3.0	3.4	3.5	18.2
14-Feb	Z	9.8	8.1	3.4	4.4	4.2	13.7	18.9	15.6	5.3	2.8	1.9	1.9	1.5	1.4	2.2	5.4	19.2	3.2	25.5	64.5	69.9	67.3	44.3	17.1	69.9
15-Feb	67.0	Z	40.5	6.9	3.1	5.2	4.2	3.8	5.1	5.8	5.0	6.8	5.8	8.6	10.7	13.1	14.7	16.5	13.0	13.6	15.7	12.0	10.2	7.4	12.8	67.0
16-Feb	6.8	6.2	Z	4.7	4.1	7.1	13.8	14.5	19.3	27.7	61.0	33.8	19.9	35.3	17.2	14.5	26.4	24.1	7.1	7.4	9.6	8.5	7.5	6.9	16.7	61.0
17-Feb	7.7	9.6	6.9	Z	7.5	6.6	6.7	7.6	6.5	5.2	5.0	4.2	3.6	3.9	3.3	3.2	2.9	3.0	3.3	2.8	3.5	2.1	1.9	1.5	4.7	9.6
18-Feb	1.5	1.4	1.6	1.2	Z	2.0	3.7	3.1	4.4	3.0	2.9	3.0	3.0	3.4	3.2	4.0	3.2	4.1	4.0	5.1	6.7	11.9	9.7	7.7	4.1	11.9
19-Feb	6.5	6.7	10.0	12.6	17.0	Z	19.7	25.5	18.6	14.4	7.2	3.9	2.6	2.8	2.5	3.2	5.5	33.6	45.4	49.3	40.0	35.7	24.8	17.5	17.6	49.3
20-Feb	Z	15.9	17.1	58.1	54.2	46.6	63.1	56.8	68.4	33.3	24.1	15.1	20.6	20.8	19.6	14.4	13.0	23.4	43.9	43.5	12.8	8.0	7.5	11.7	30.1	68.4
21-Feb	11.0	Z	7.3	7.8	8.8	11.4	10.6	13.5	14.4	13.9	13.1	12.6	7.9	9.0	9.0	6.5	8.1	7.2	11.3	10.5	9.1	6.9	5.2	5.4	9.6	14.4
22-Feb	5.2	5.5	Z	6.6	6.3	7.3	8.2	9.4	10.4	11.0	12.5	16.5	18.6	20.9	22.9	25.2	23.7	28.9	42.5	9.9	6.2	5.5	3.6	3.0	13.5	42.5
23-Feb	2.5	2.9	2.2	Z	4.5	9.3	10.0	14.4	30.3	18.9	18.3	21.4	14.5	20.6	21.2	23.7	13.9	20.3	32.3	20.6	18.8	26.6	39.6	17.4	17.6	39.6
24-Feb	9.9	18.8	21.0	23.1	Z	33.8	45.9	35.1	13.5	7.4	4.9	5.4	4.5	3.4	1.8	2.5	7.8	36.8	45.2	27.8	11.9	7.6	6.1	4.4	16.5	45.9
25-Feb	4.8	5.0	6.4	8.9	10.8	Z	7.2	6.0	19.5	15.2	12.6	8.3	6.8	10.2	14.2	15.4	18.8	43.7	51.4	20.4	30.9	31.1	19.3	11.1	16.4	51.4
26-Feb	Z	10.1	7.4	8.2	9.2	9.6	11.2	12.6	14.8	14.7	11.4	9.8	7.0	5.2	3.7	3.6	3.6	3.8	5.5	3.5	3.4	2.8	3.1	4.6	7.3	14.8
27-Feb	5.1	Z	2.5	2.4	2.7	4.2	6.4	1.5	3.7	5.7	4.3	6.1	5.5	6.4	6.9	7.7	6.7	6.7	4.7	7.5	21.1	13.4	15.0	23.9	7.4	23.9
28-Feb	23.6	37.3	Z	23.2	13.8	45.1	46.6	45.0	54.8	26.6	16.5	18.7	17.4	13.1	10.1	10.5	25.1	39.9	34.5	76.8	55.8	60.2	29.9	17.8	32.3	76.8
	11.3	9.0	8.7	10.4	11.2	14.6	16.9	16.0	18.2	15.0	13.5	11.5	8.5	9.9	9.4	10.0	10.3	17.5	22.9	19.1	15.6	14.6	12.4	10.5	Diurnal Average	
	67.0	37.3	40.5	58.1	54.2	48.4	70.0	56.8	68.4	87.2	61.0	44.6	20.6	35.3	27.3	25.2	26.4	43.7	105.1	76.8	64.5	69.9	67.3	44.3	Diurnal Maximum	

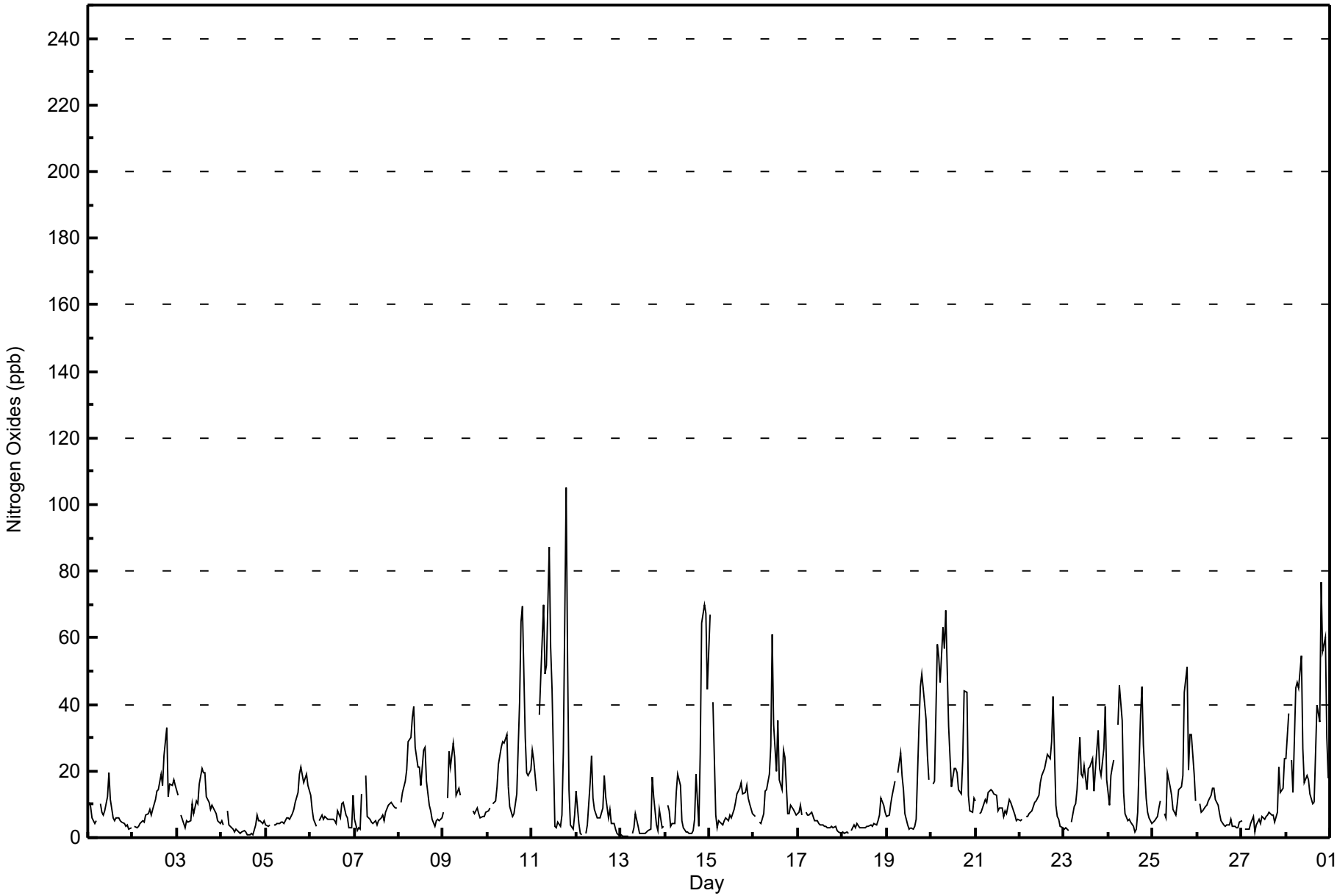
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Patricia McInnes - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	521	81.66	81.66
21 - 40	77	12.07	93.73
11 - 80	38	5.96	99.69
81 - 159	2	0.31	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Nitrogen Oxides (NO_X) - ppb

Patricia McInnes - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	171	14	5	6	7	50	50	11	21	27	31	39	7	6	12	52	509
21 - 40	13	2	1	5	6	5	3	8	11	3	4	1	2	2	1	10	77
11 - 80	0	3	1	0	5	1	3	11	6	3	1	0	0	0	0	4	38
81 - 159	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	184	19	7	11	18	57	56	31	38	33	36	40	9	8	13	66	626

Total Number of Valid Hours: 626

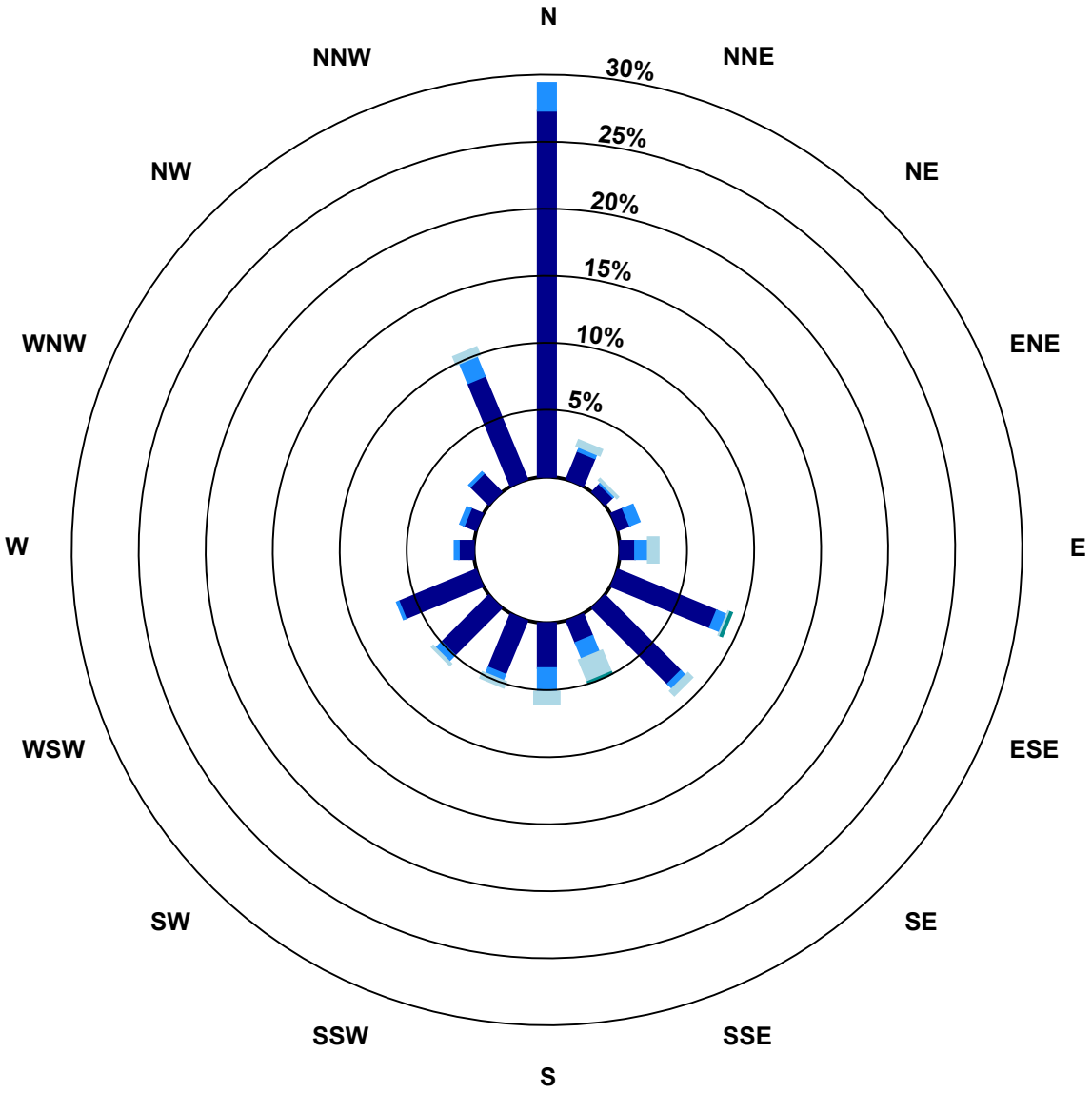
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Patricia McInnes



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

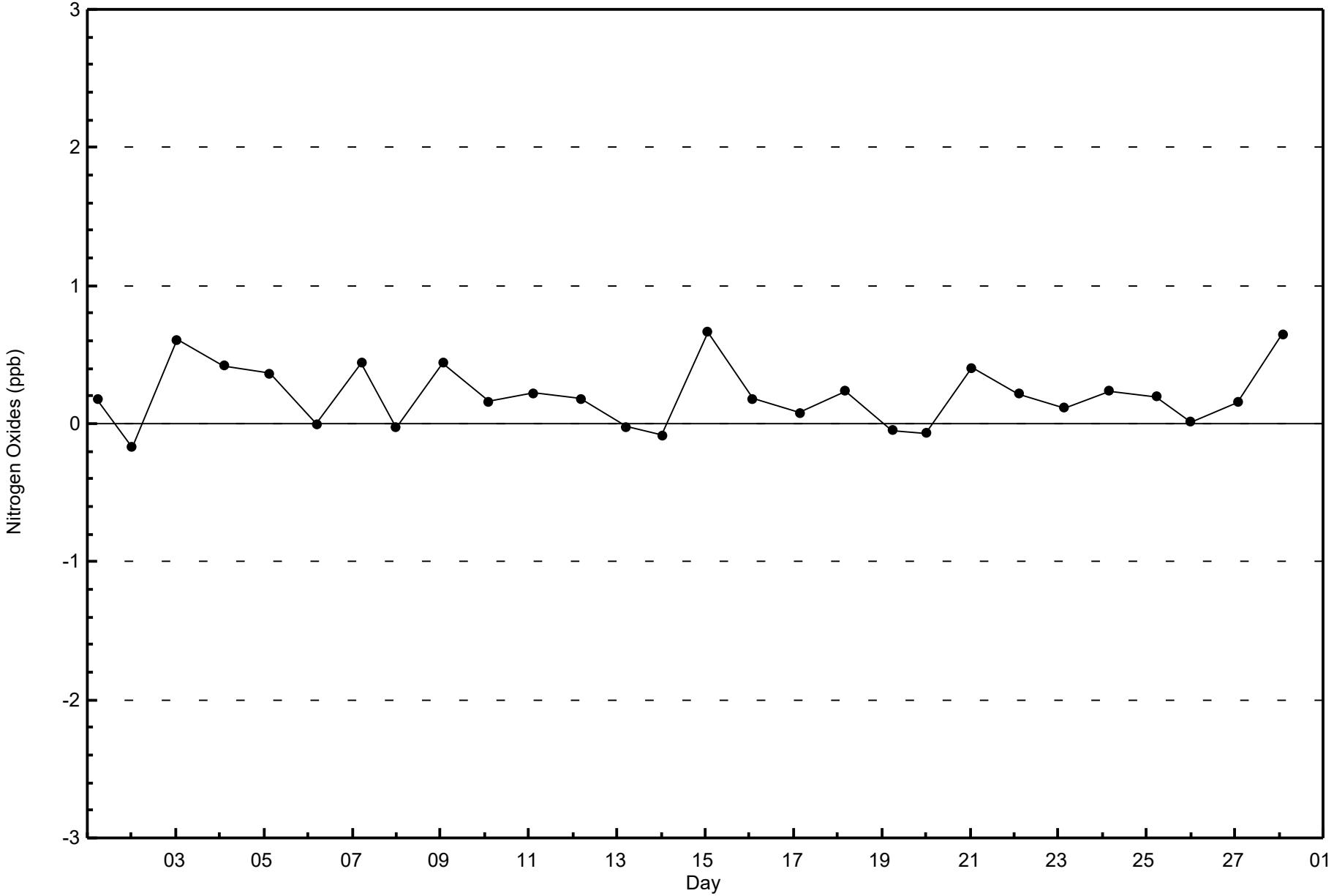
Total Number of Valid Hours: 626

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Patricia McInnes - February 2026

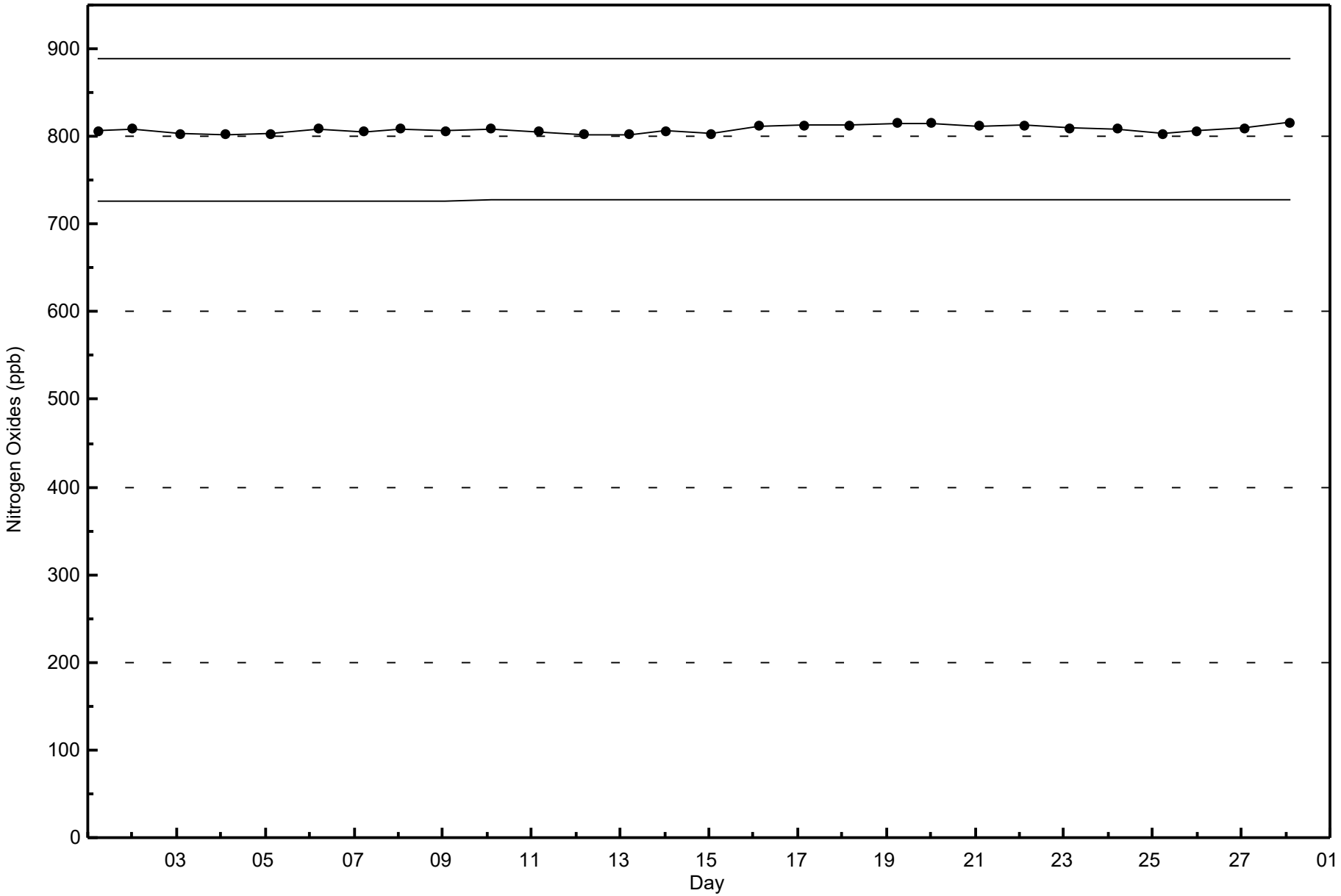


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Patricia McInnes - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ammonia (NH_3) - ppb

Patricia McInnes - February 2026

Number of Exceedences (AAAQO): 1-hr: 0

Maximum Value: 0.0 ppb on Feb 1 01:00

Maximum Daily Average: 0.0 ppb on Feb 1

Minimum Value: 0.0 ppb on Feb 1 01:00

Minimum Daily Average: 0.0 ppb on Feb 1

Maximum Diurnal Average: 0.0 ppb at hour 1

Minimum Diurnal Average: 0.0 ppb at hour 1

Monthly Average: 0.00 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.0 P_{99} = 0.0

Hours in Service:	672
Hours of Data:	602
Hours of Missing Data:	70
Hours of Calibration:	37
Percent Operational Time:	95.1

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-Feb	0.0	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3-Feb	Z	RE	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4-Feb	0.0	Z	RE	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-Feb	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-Feb	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7-Feb	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-Feb	0.0	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9-Feb	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Feb	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-Feb	0.0	0.0	Z	RE	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-Feb	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Feb	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Feb	0.0	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Feb	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Feb	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Feb	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-Feb	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Feb	0.0	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	C	C	C	C	C	C	C	C	C	RE	RE	0.0	0.0	0.0	0.0	--	0.0
21-Feb	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-Feb	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-Feb	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24-Feb	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-Feb	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26-Feb	0.0	0.0	0.0	0.0	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27-Feb	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28-Feb	0.0	Z	RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	Diurnal Maximum	

Z - zerospan C - Calibration RE - Recovery

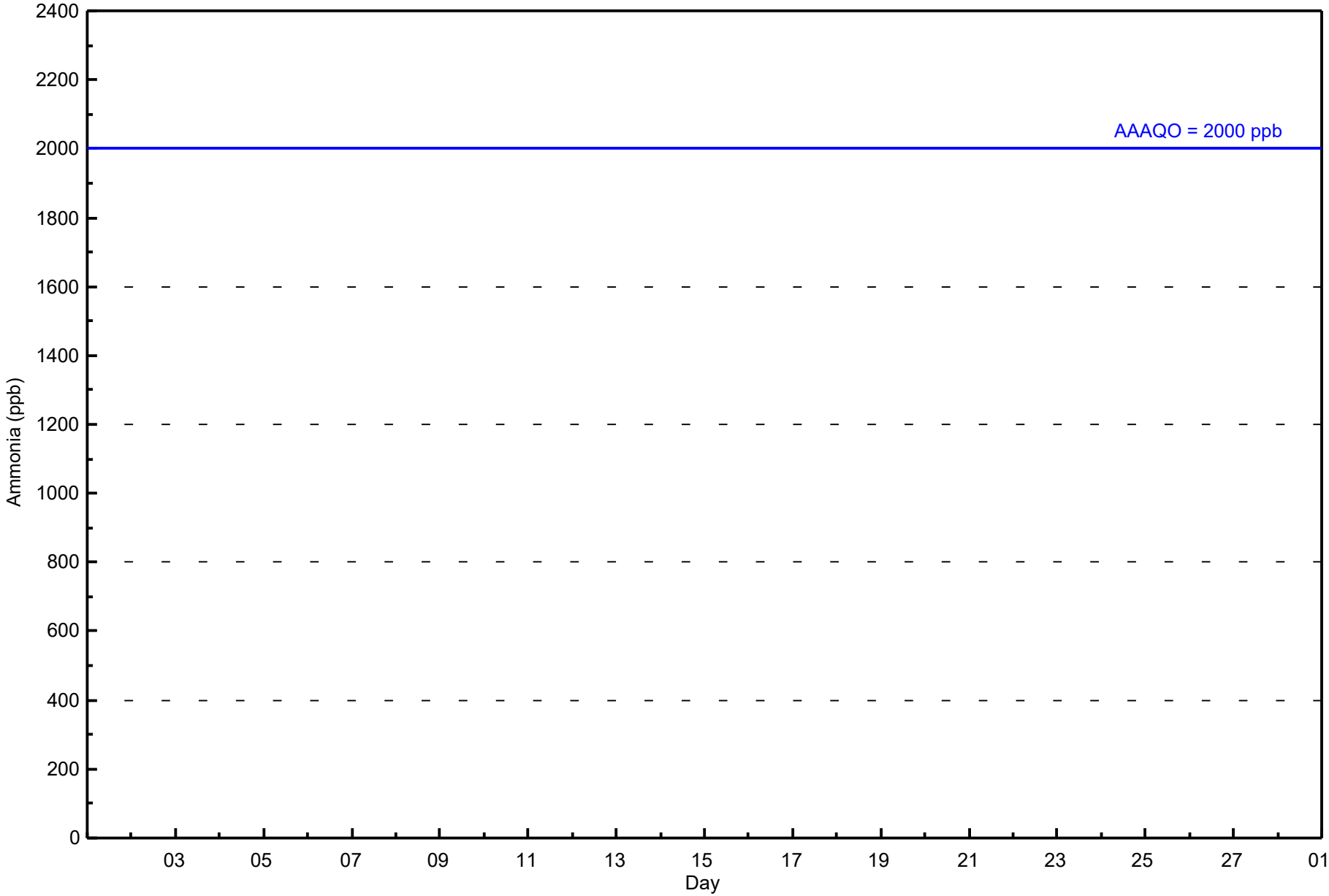
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 2000 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ammonia (NH_3) - ppb

Patricia McInnes - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 5	602	100.00	100.00
6 - 10	0	0.00	100.00
11 - 15	0	0.00	100.00
16 - 20	0	0.00	100.00
21 - 25	0	0.00	100.00
> 26	0	0.00	100.00

Total Number of Valid Hours: 602

Total Number of Hours: 672

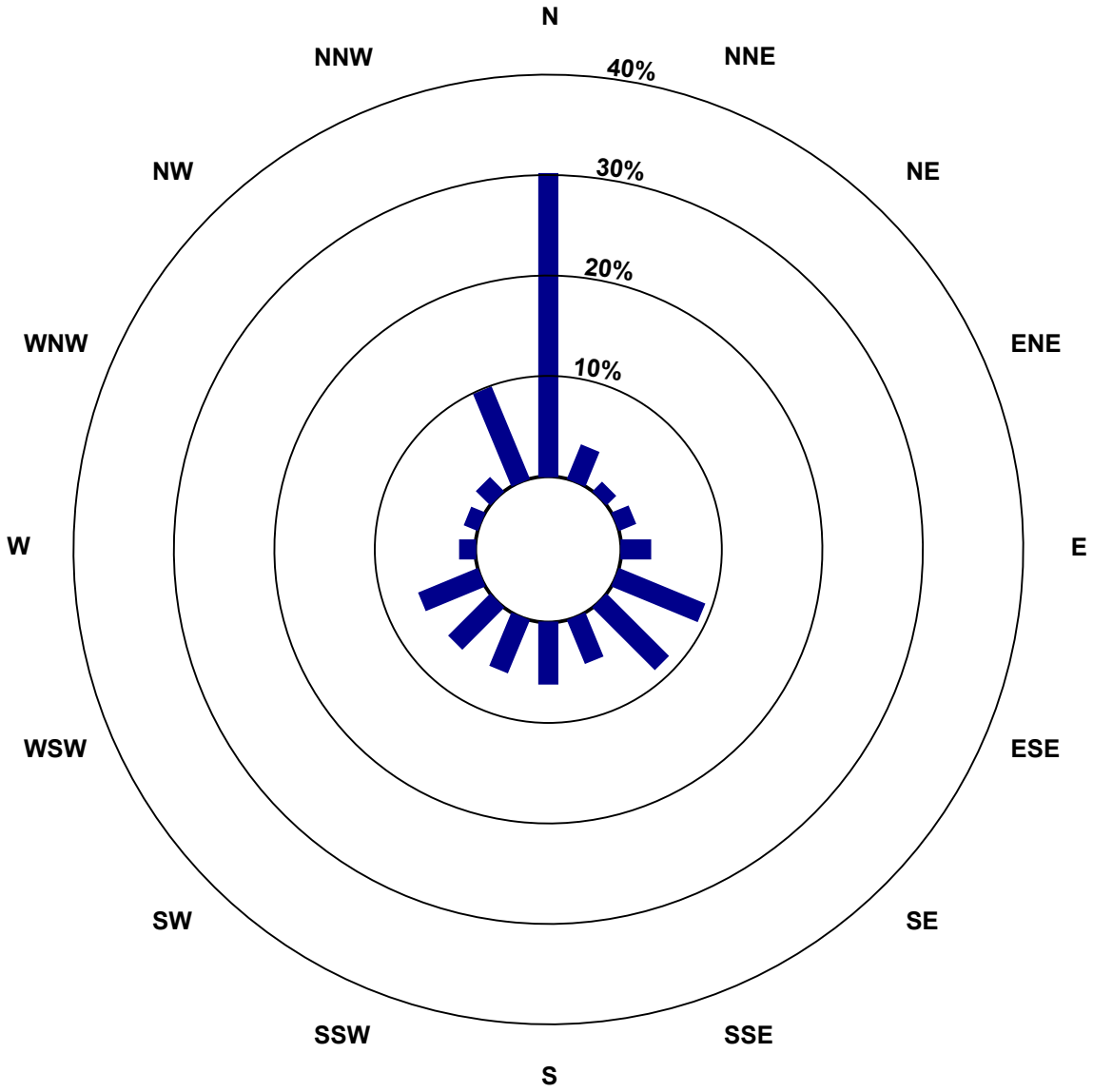
Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	178	21	7	10	17	54	51	27	36	33	34	37	9	8	11	58	591
6 - 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	178	21	7	10	17	54	51	27	36	33	34	37	9	8	11	58	591

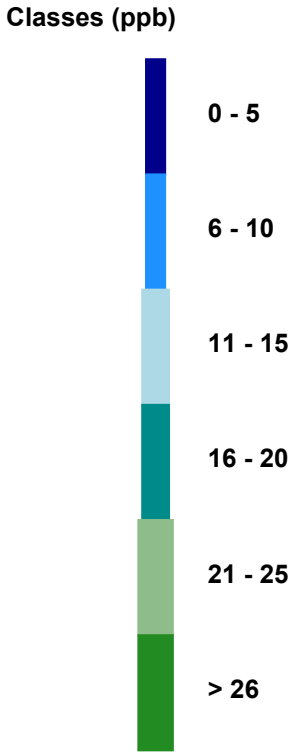
Total Number of Valid Hours: 591

Total Number of Hours: 672

Ammonia (NH_3) - ppb

Patricia McInnes





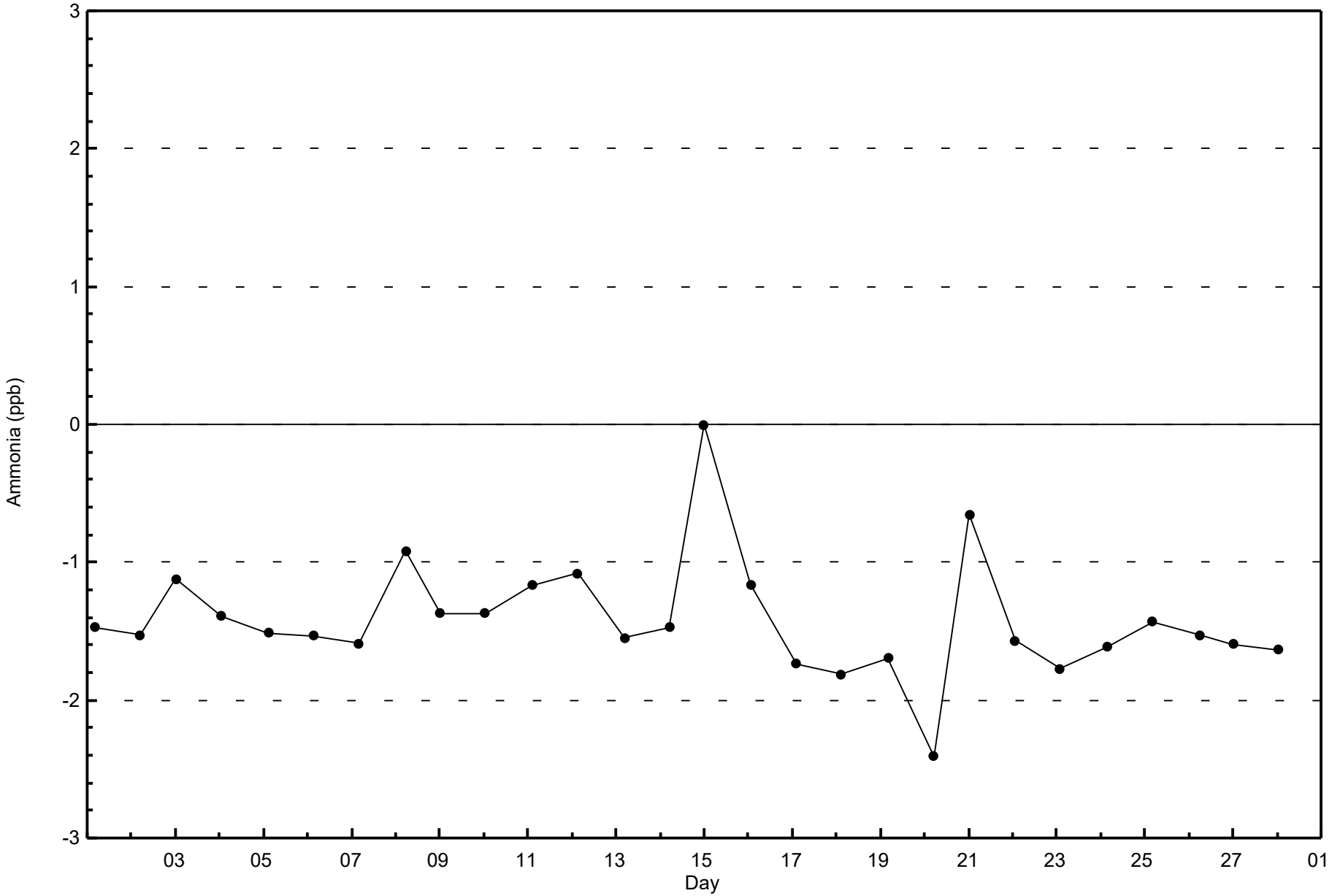
Total Number of Valid Hours: 591

Wood Buffalo Environmental Association

Zero Responses

Ammonia (NH_3) - ppb

Patricia McInnes - February 2026

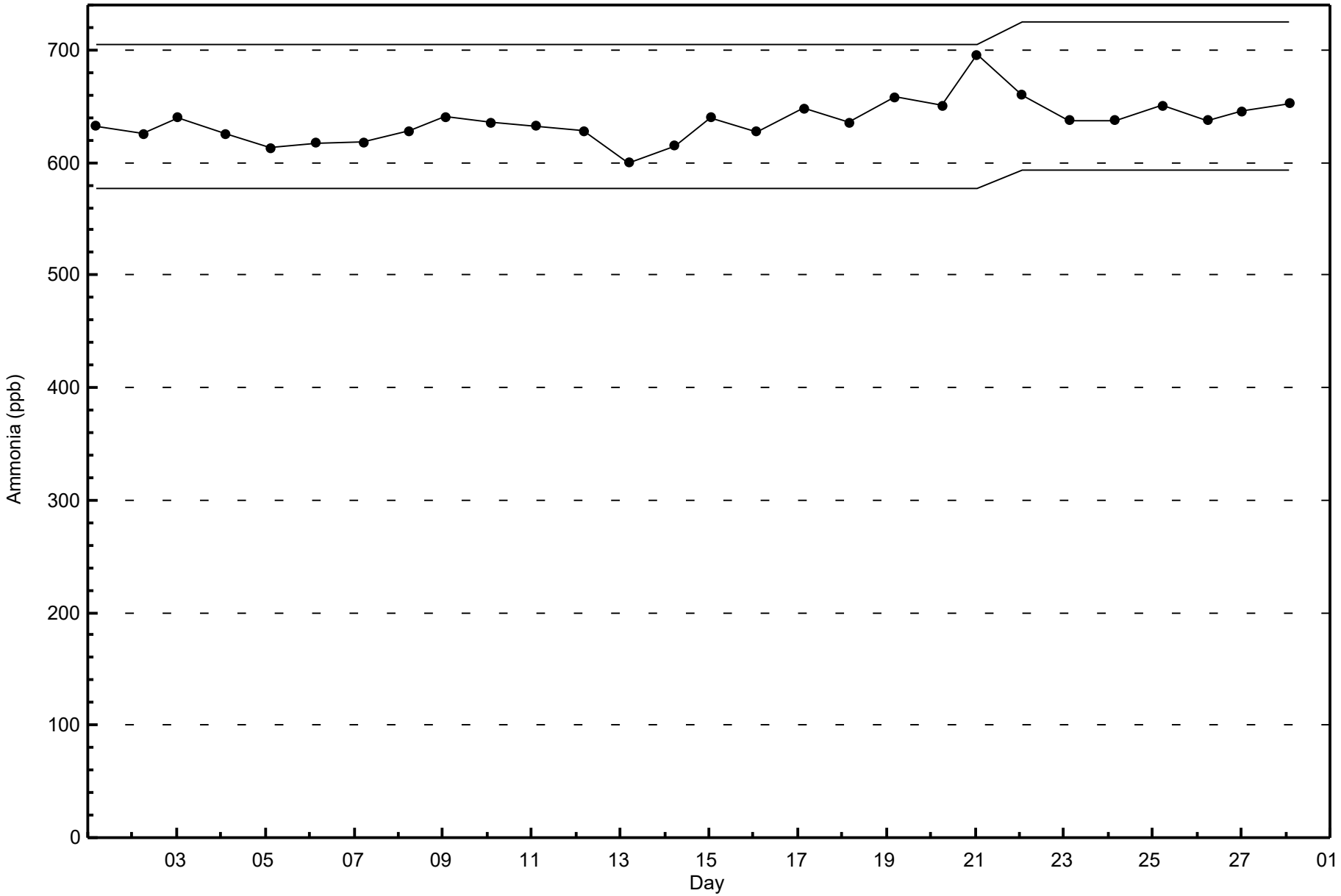


Wood Buffalo Environmental Association

Span Responses

Ammonia (NH_3) - ppb

Patricia McInnes - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Patricia McInnes - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 28.3 $\mu g/m^3$ on Feb 19 20:00

Maximum Daily Average: 9.3 $\mu g/m^3$ on Feb 28

Minimum Value: 0.7 $\mu g/m^3$ on Feb 4 17:00

Minimum Daily Average: 2.1 $\mu g/m^3$ on Feb 13

Maximum Diurnal Average: 6.3 $\mu g/m^3$ at hour 20

Minimum Diurnal Average: 3.6 $\mu g/m^3$ at hour 5

Monthly Average: 4.57 $\mu g/m^3$

Percentiles: P_1 = 1.1 P_{10} = 2.0 Q_1 = 2.7 Median = 3.6 Q_3 = 5.2 P_{90} = 8.5 P_{99} = 19.1

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	1
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	3.5	2.9	2.9	2.4	2.4	2.7	2.6	2.8	3.0	3.1	3.7	2.9	3.0	2.8	2.9	2.9	2.4	1.9	1.8	1.9	2.1	2.1	2.2	2.2	2.6	3.7
2-Feb	2.3	2.1	1.8	1.8	1.9	2.9	3.1	3.5	3.0	3.1	3.5	4.1	5.3	5.9	5.6	7.9	9.6	13.8	11.5	8.4	11.0	10.0	10.7	9.2	5.9	13.8
3-Feb	9.0	7.6	7.4	8.5	6.2	5.7	5.3	5.1	6.0	6.2	5.5	6.1	10.0	9.2	10.8	9.6	8.8	8.8	7.6	7.9	8.4	8.8	5.9	5.1	7.5	10.8
4-Feb	4.9	4.7	5.3	6.7	5.5	5.4	4.5	4.1	3.3	2.7	2.2	1.7	1.4	1.0	0.8	0.8	0.7	0.7	1.0	3.6	4.4	4.7	4.9	5.2	3.3	6.7
5-Feb	4.6	4.0	3.1	2.9	2.5	2.2	2.1	2.0	2.0	1.9	1.9	2.0	2.7	3.1	3.8	3.7	3.5	3.9	5.8	5.2	4.0	3.9	4.1	3.6	3.3	5.8
6-Feb	3.4	3.0	2.6	2.3	2.6	2.9	2.9	2.8	3.0	3.1	3.6	3.5	C	3.1	2.9	3.6	3.3	3.4	3.5	3.6	3.3	3.5	3.7	4.4	3.2	4.4
7-Feb	4.5	5.0	5.5	4.2	5.0	7.1	7.9	4.2	3.6	4.2	3.5	4.1	4.3	4.7	4.8	4.2	3.6	3.3	3.6	4.1	5.6	4.0	3.4	3.8	4.5	7.9
8-Feb	3.8	3.7	4.2	4.6	5.0	5.0	5.1	4.9	4.6	4.6	4.7	5.0	6.3	5.6	6.3	4.4	3.4	3.6	4.0	4.0	4.3	4.2	3.9	4.1	4.6	6.3
9-Feb	4.4	4.2	5.2	5.6	5.3	5.4	4.8	4.2	4.5	4.0	3.4	3.8	4.2	4.5	5.5	5.2	4.0	3.3	3.2	2.8	2.9	3.2	3.0	3.0	4.2	5.6
10-Feb	3.5	4.1	4.8	5.4	5.7	6.7	7.5	9.2	12.0	13.2	11.8	8.0	5.9	5.9	6.4	8.6	6.5	10.0	15.1	10.8	14.0	9.5	8.6	20.1	8.9	20.1
11-Feb	12.0	10.2	6.9	8.6	8.3	7.4	7.8	6.2	6.2	7.1	6.1	6.8	2.4	2.0	1.8	1.2	1.2	2.2	14.3	6.4	2.8	1.3	4.5	4.2	5.7	14.3
12-Feb	3.7	3.8	3.4	2.8	1.8	1.6	1.7	2.2	2.9	1.5	2.9	1.3	1.3	1.2	1.4	2.7	2.8	1.7	2.4	4.7	2.0	2.3	1.9	1.4	2.3	4.7
13-Feb	1.2	1.1	1.3	1.5	1.7	1.8	1.9	2.1	2.3	2.2	2.3	2.4	2.2	2.2	2.1	2.0	1.7	3.1	3.2	2.3	2.0	4.2	2.2	2.5	2.1	4.2
14-Feb	2.4	6.2	3.0	2.2	2.1	2.3	3.4	4.1	3.2	2.5	2.5	2.9	4.3	6.7	7.2	6.5	4.7	9.0	13.2	9.9	9.5	12.0	12.3	9.4	5.9	13.2
15-Feb	8.2	7.3	6.3	3.4	3.4	3.5	3.8	3.4	3.4	3.5	4.0	5.3	5.4	3.6	4.6	4.5	5.0	9.8	7.6	19.4	19.0	14.1	9.6	9.3	7.0	19.4
16-Feb	10.4	7.9	5.5	4.2	3.6	4.0	4.9	5.0	4.8	8.0	18.4	8.9	5.5	11.1	8.4	5.1	5.8	6.2	3.9	5.2	7.0	6.8	6.4	5.2	6.8	18.4
17-Feb	5.3	3.9	4.5	4.2	4.2	3.7	3.8	3.9	3.2	3.6	4.0	4.2	4.6	6.1	4.5	3.7	3.5	3.3	3.0	2.9	2.9	2.8	2.7	2.5	3.8	6.1
18-Feb	2.5	2.4	2.4	2.5	2.6	2.4	2.4	2.3	2.3	2.2	2.0	2.1	2.7	3.2	3.6	3.8	2.8	2.0	1.9	2.0	2.2	2.1	2.1	1.8	2.4	3.8
19-Feb	1.8	1.8	1.8	2.1	3.1	3.0	3.3	6.5	3.2	3.1	2.1	1.7	1.5	1.5	1.5	1.8	1.4	3.2	26.2	28.3	13.6	8.8	3.5	1.8	5.3	28.3
20-Feb	16.6	3.0	2.8	9.7	3.8	7.5	13.3	15.6	8.7	4.1	4.8	4.4	4.8	4.3	4.7	4.3	4.2	4.0	7.3	6.9	3.2	2.6	2.6	3.1	6.1	16.6
21-Feb	3.0	2.7	2.4	2.3	2.3	2.5	2.7	2.9	3.3	2.9	2.7	2.8	3.0	3.2	3.2	3.3	3.4	3.3	3.2	3.0	3.6	4.1	3.1	3.0	3.0	4.1
22-Feb	2.8	2.8	2.8	2.7	2.7	2.9	3.2	3.5	3.9	4.7	4.0	4.0	3.4	3.7	4.1	3.9	4.2	4.3	6.0	2.4	2.1	2.0	2.0	1.9	3.3	6.0
23-Feb	1.8	1.7	1.7	1.7	1.8	1.8	2.4	2.9	2.9	3.1	2.8	2.9	2.7	4.0	3.7	3.6	3.0	2.9	3.5	2.8	2.6	3.0	5.9	2.7	2.8	5.9
24-Feb	2.3	3.2	3.4	9.0	2.3	4.5	4.2	5.0	4.3	4.7	5.0	4.7	5.2	3.6	2.9	2.7	3.3	7.9	5.4	4.4	3.7	3.4	4.0	3.3	4.3	9.0
25-Feb	3.2	3.1	3.0	3.1	5.4	3.6	3.7	4.2	4.6	4.1	4.1	4.0	3.9	4.5	5.7	5.1	5.3	6.7	8.0	5.7	5.4	5.2	4.9	3.7	4.6	8.0
26-Feb	3.4	3.6	3.2	3.3	3.5	3.2	3.2	3.1	3.1	3.3	2.9	2.8	2.6	2.6	2.5	2.3	2.1	2.4	2.5	2.3	2.3	2.2	2.2	2.2	2.8	3.6
27-Feb	2.3	2.0	1.8	1.7	1.8	1.8	2.1	1.8	2.1	2.8	2.5	2.4	2.6	2.9	2.8	2.9	2.9	2.9	2.6	2.7	3.1	3.4	3.8	4.1	2.6	4.1
28-Feb	3.8	6.6	9.3	8.5	4.8	5.4	25.0	11.2	9.7	6.1	5.0	4.9	6.8	6.2	3.7	3.2	3.3	7.9	5.0	13.1	16.3	22.7	21.2	12.6	9.3	25.0
	4.7	4.1	3.9	4.2	3.6	3.9	5.0	4.6	4.2	4.1	4.4	3.9	4.0	4.2	4.2	4.1	3.8	4.8	6.3	6.3	5.8	5.6	5.2	4.8	Diurnal Average	
	16.6	10.2	9.3	9.7	8.3	7.5	25.0	15.6	12.0	13.2	18.4	8.9	10.0	11.1	10.8	9.6	9.6	13.8	26.2	28.3	19.0	22.7	21.2	20.1	Diurnal Maximum	

C - Calibration

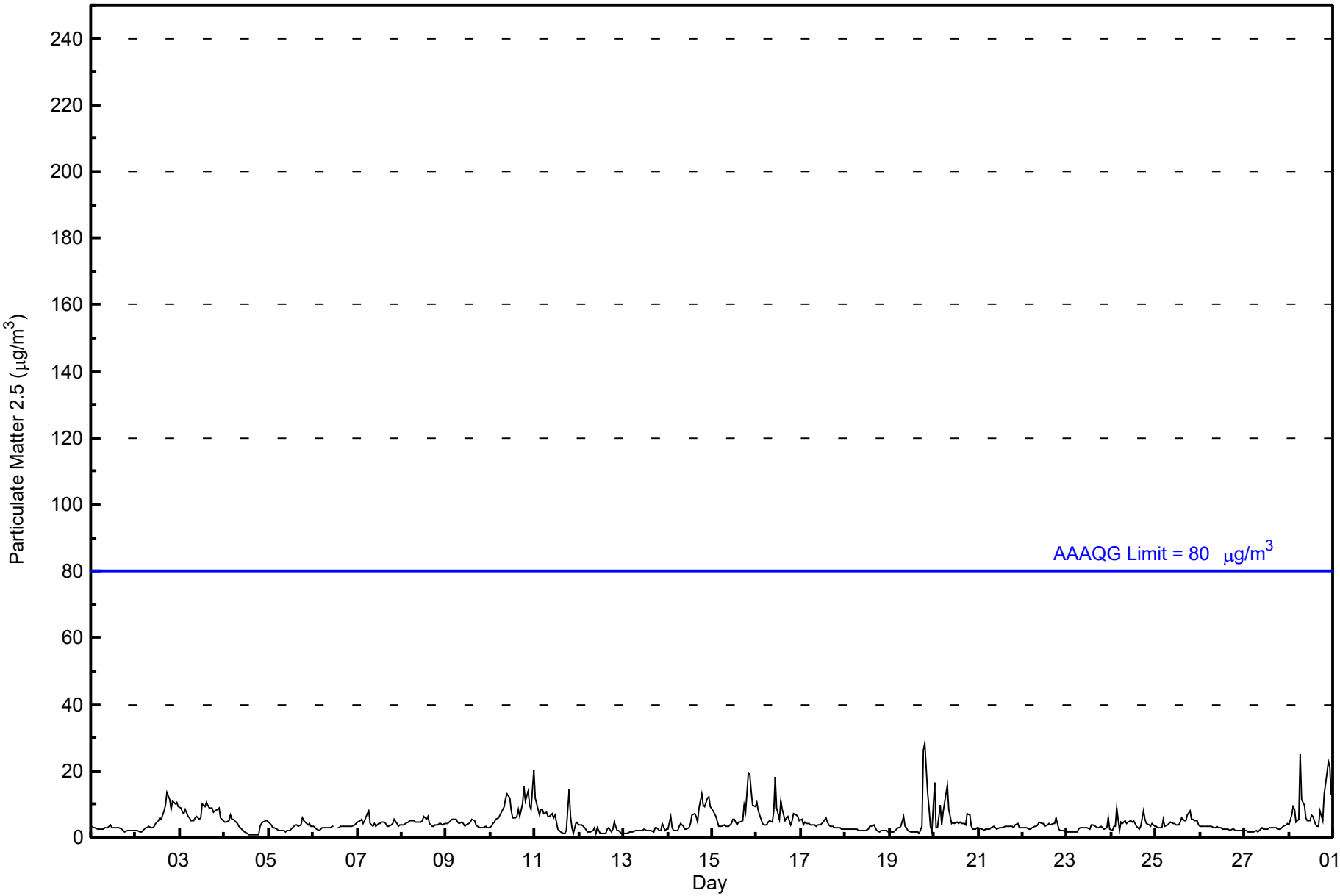
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Patricia McInnes - February 2026



Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	523	77.94	77.94
6 - 15	136	20.27	98.21
16 - 25	10	1.49	99.70
26 - 80	2	0.30	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 671

Total Number of Hours: 672

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Patricia McInnes - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	168	10	5	10	10	55	35	12	27	24	33	40	9	7	10	55	510
6 - 15	26	10	2	1	8	4	22	15	10	10	4	3	1	2	4	14	136
16 - 25	2	1	0	0	0	0	1	3	2	1	0	0	0	0	0	0	10
26 - 80	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	196	21	7	11	18	59	58	31	40	35	37	43	10	9	14	69	658

Total Number of Valid Hours: 658

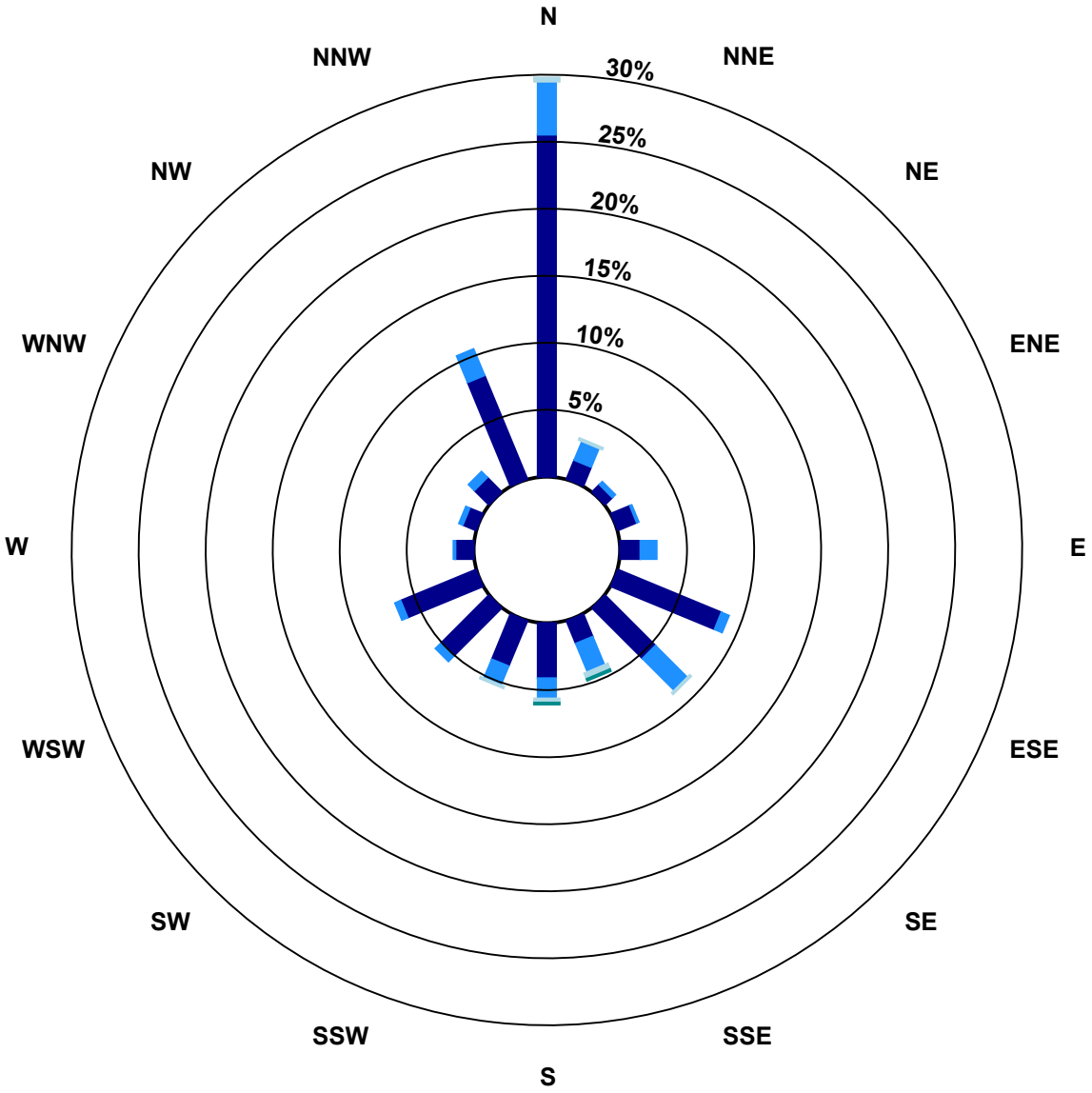
Total Number of Hours: 672

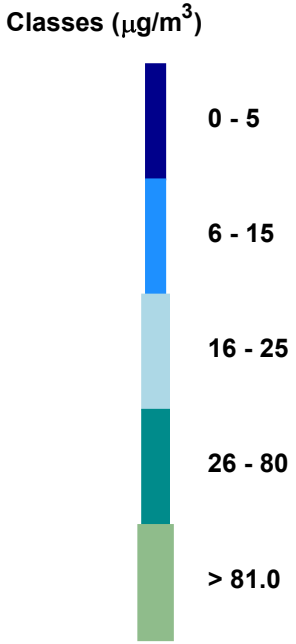
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Patricia McInnes





Total Number of Valid Hours: 658

Maximum Value: 10.6 C on Feb 4 15:00

Maximum Daily Average: 3.0 C on Feb 4

Minimum Value: -41.7 C on Feb 28 05:00

Minimum Daily Average: -30.9 C on Feb 18

Maximum Diurnal Average: -10.5 C at hour 16

Minimum Diurnal Average: -17.3 C at hour 8

Monthly Average: -14.57 C

Percentiles: P_1 = -39.7 P_{10} = -28.7 Q_1 = -21.6 Median = -13.8 Q_3 = -8.1 P_{90} = -0.7 P_{99} = 6.1

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

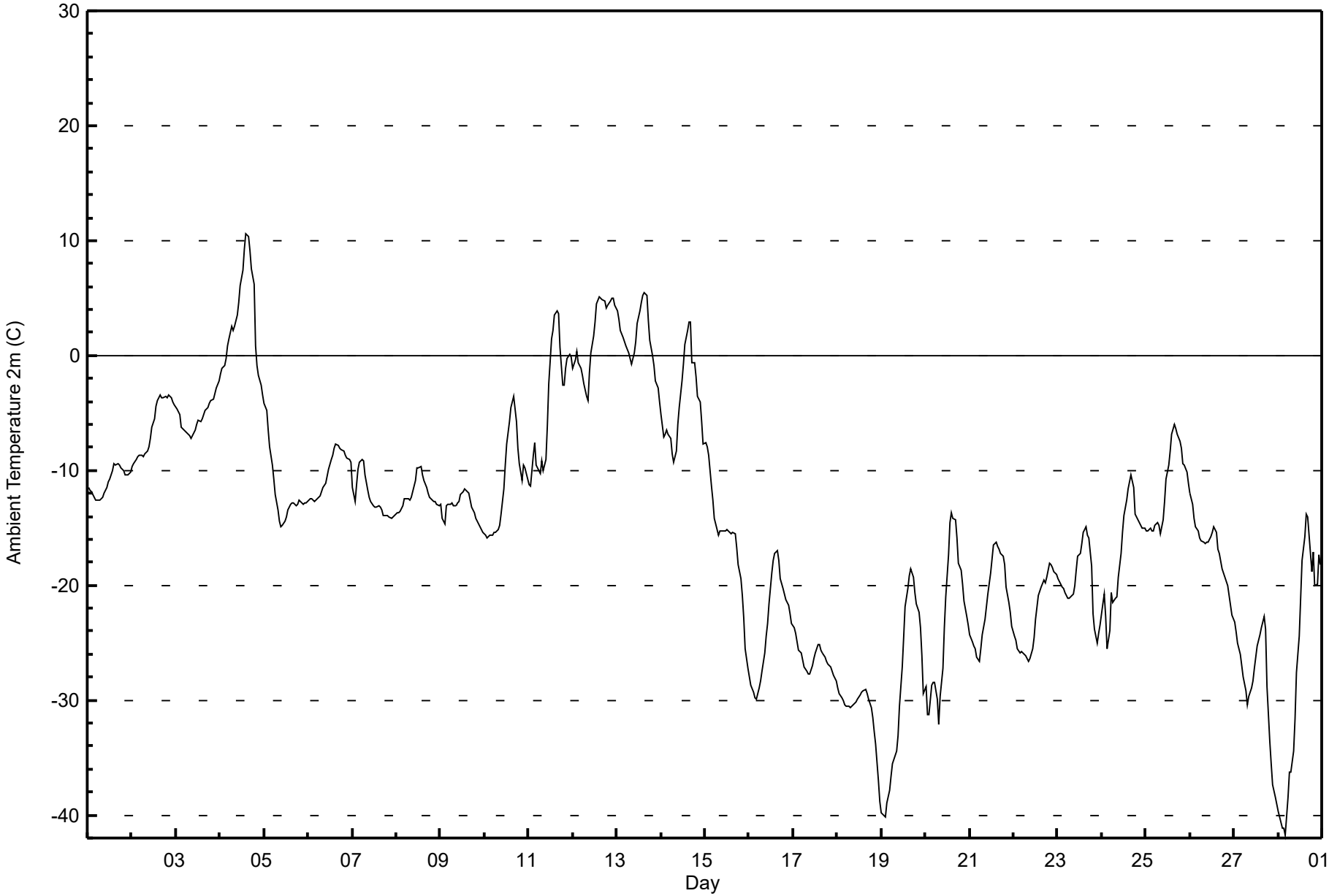
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.5	-11.7	-11.8	-12.3	-12.6	-12.6	-12.6	-12.5	-12.4	-12.0	-11.5	-11.0	-10.7	-10.0	-9.4	-9.6	-9.4	-9.6	-9.8	-10.0	-10.3	-10.4	-10.4	-10.1	-11.0	-9.4
2-Feb	-9.7	-9.4	-9.1	-8.8	-8.7	-8.7	-8.8	-8.6	-8.3	-7.9	-7.2	-6.2	-5.5	-4.4	-3.9	-3.5	-3.7	-3.7	-3.5	-3.7	-3.5	-3.7	-4.0	-4.3	-6.2	-3.5
3-Feb	-4.7	-4.9	-5.1	-6.2	-6.5	-6.6	-6.8	-7.0	-7.2	-6.9	-6.5	-6.0	-5.6	-5.7	-5.5	-5.2	-4.8	-4.5	-4.1	-3.9	-3.9	-3.4	-2.8	-2.2	-5.2	-2.2
4-Feb	-1.6	-1.2	-0.9	-0.2	0.8	1.4	2.6	2.2	2.5	3.5	4.6	6.1	7.5	9.3	10.6	10.4	9.2	7.6	6.1	0.8	-0.9	-1.7	-2.6	-3.5	3.0	10.6
5-Feb	-4.1	-4.8	-6.4	-8.0	-9.5	-10.8	-12.1	-13.5	-14.4	-14.9	-14.8	-14.4	-14.1	-13.4	-12.9	-12.8	-12.8	-13.1	-12.9	-12.6	-12.9	-13.0	-12.9	-12.8	-11.8	-4.1
6-Feb	-12.6	-12.5	-12.5	-12.7	-12.6	-12.5	-12.2	-11.9	-11.5	-11.1	-10.5	-9.8	-9.1	-8.6	-8.1	-7.7	-7.9	-8.1	-8.2	-8.4	-8.7	-8.9	-9.0	-9.3	-10.2	-7.7
7-Feb	-11.5	-12.8	-11.3	-9.9	-9.2	-9.0	-9.1	-10.4	-11.8	-12.4	-12.7	-13.1	-13.2	-13.2	-13.1	-13.2	-13.5	-13.9	-14.0	-13.9	-14.1	-14.1	-14.1	-13.9	-12.4	-9.0
8-Feb	-13.7	-13.7	-13.5	-13.0	-12.5	-12.4	-12.5	-12.5	-12.4	-11.9	-10.9	-9.8	-9.8	-9.7	-10.4	-10.9	-11.5	-11.9	-12.4	-12.6	-12.7	-12.7	-12.9	-13.0	-12.1	-9.7
9-Feb	-12.9	-14.1	-14.6	-13.1	-13.0	-13.0	-12.8	-13.1	-13.1	-12.9	-12.7	-12.1	-11.8	-11.7	-11.8	-12.0	-12.5	-13.3	-13.7	-14.1	-14.4	-14.9	-15.2	-15.4	-13.3	-11.7
10-Feb	-15.7	-15.8	-15.8	-15.7	-15.7	-15.4	-15.4	-15.1	-14.8	-13.8	-11.6	-9.5	-7.7	-5.8	-4.6	-4.0	-3.6	-5.7	-8.1	-9.4	-10.9	-9.5	-9.8	-10.8	-11.0	-3.6
11-Feb	-11.2	-11.4	-8.6	-7.6	-9.6	-9.8	-10.2	-9.2	-10.0	-9.1	-6.1	-2.5	1.5	2.1	3.5	3.9	3.6	0.7	-2.6	-2.6	-1.2	-0.3	0.1	-0.2	-4.0	3.9
12-Feb	-1.1	-0.4	0.4	-0.6	-1.1	-1.8	-2.4	-3.5	-4.0	-1.5	0.3	1.7	2.9	4.5	5.1	4.9	4.8	4.7	4.1	4.3	4.8	5.0	5.0	4.4	1.7	5.1
13-Feb	3.9	3.1	2.2	1.5	1.2	0.9	0.2	-0.2	-0.8	0.2	1.2	2.8	3.9	4.7	5.2	5.5	5.2	3.1	1.3	0.0	-0.9	-2.2	-2.8	-4.0	1.5	5.5
14-Feb	-5.2	-7.0	-6.9	-6.5	-6.8	-7.2	-8.5	-9.3	-8.3	-6.0	-4.5	-2.2	-0.7	0.9	2.2	2.9	2.9	-0.7	-0.6	-1.9	-3.5	-4.0	-5.7	-7.6	-3.9	2.9
15-Feb	-7.6	-7.9	-8.7	-11.3	-12.6	-14.1	-15.2	-15.7	-15.3	-15.3	-15.3	-15.2	-15.1	-15.4	-15.5	-15.3	-15.5	-16.7	-18.2	-19.5	-20.9	-22.9	-25.5	-27.2	-15.9	-7.6
16-Feb	-28.0	-28.8	-29.3	-29.8	-29.9	-29.0	-28.3	-27.4	-25.9	-24.4	-23.4	-21.6	-18.9	-17.9	-17.2	-17.0	-17.8	-19.5	-20.3	-20.8	-21.3	-21.7	-22.5	-23.3	-23.5	-17.0
17-Feb	-23.7	-24.1	-24.9	-25.6	-25.8	-26.5	-27.2	-27.5	-27.7	-27.7	-27.0	-26.4	-25.9	-25.2	-25.2	-25.6	-25.9	-26.2	-26.6	-26.8	-27.2	-27.5	-27.9	-28.3	-26.4	-23.7
18-Feb	-28.9	-29.5	-29.8	-30.1	-30.4	-30.6	-30.6	-30.6	-30.5	-30.3	-30.2	-29.9	-29.5	-29.3	-29.2	-29.0	-29.4	-29.9	-30.7	-31.5	-32.7	-33.9	-37.0	-38.9	-30.9	-28.9
19-Feb	-39.8	-40.1	-40.2	-39.0	-37.9	-36.6	-35.5	-34.9	-34.5	-33.2	-30.5	-27.2	-24.6	-21.9	-20.3	-19.1	-18.6	-19.3	-20.7	-21.6	-22.4	-23.7	-26.1	-29.4	-29.0	-18.6
20-Feb	-28.9	-31.2	-31.2	-28.7	-28.5	-28.5	-29.9	-32.1	-29.7	-27.2	-23.7	-21.0	-17.3	-14.5	-13.7	-14.1	-14.3	-15.8	-18.1	-18.7	-19.9	-21.4	-22.7	-23.5	-23.1	-13.7
21-Feb	-24.3	-25.0	-25.3	-25.5	-26.2	-26.7	-25.5	-24.3	-22.9	-21.8	-20.7	-18.9	-17.7	-16.5	-16.2	-16.6	-16.9	-17.3	-17.5	-18.2	-20.1	-21.5	-22.3	-23.6	-21.3	-16.2
22-Feb	-24.5	-24.8	-25.5	-25.9	-25.8	-25.9	-26.2	-26.4	-26.6	-26.3	-25.5	-24.5	-23.0	-20.9	-20.6	-20.1	-19.6	-19.8	-19.3	-18.1	-18.2	-18.5	-18.8	-19.1	-22.7	-18.1
23-Feb	-19.4	-19.7	-20.1	-20.3	-20.6	-21.1	-21.1	-21.0	-20.7	-20.0	-18.7	-17.5	-17.3	-16.3	-15.4	-14.9	-15.6	-15.9	-18.3	-22.4	-23.8	-25.1	-24.2	-23.5	-19.7	-14.9
24-Feb	-21.7	-20.7	-22.7	-25.5	-24.0	-20.7	-21.5	-21.2	-21.0	-19.3	-17.2	-15.4	-13.9	-12.6	-11.6	-11.0	-10.4	-11.5	-13.8	-14.1	-14.5	-14.7	-15.0	-15.1	-17.1	-10.4
25-Feb	-15.3	-15.3	-15.0	-15.3	-15.3	-14.7	-14.6	-14.8	-15.5	-14.2	-12.7	-10.8	-9.6	-8.3	-6.9	-6.0	-6.4	-6.8	-7.4	-8.1	-9.4	-9.5	-10.1	-11.1	-11.4	-6.0
26-Feb	-12.0	-13.0	-14.2	-14.9	-15.2	-15.8	-16.1	-16.2	-16.4	-16.3	-16.2	-15.7	-15.4	-15.0	-15.4	-16.8	-17.2	-18.5	-18.9	-19.3	-20.0	-20.9	-21.7	-22.6	-16.8	-12.0
27-Feb	-23.2	-24.1	-25.1	-26.0	-27.0	-28.0	-29.2	-30.4	-29.7	-29.0	-28.4	-27.2	-25.3	-24.8	-24.3	-23.7	-22.7	-23.8	-28.8	-33.5	-35.6	-37.4	-38.5	-39.1	-28.5	-22.7
28-Feb	-39.7	-40.7	-41.1	-41.1	-41.7	-38.5	-36.3	-36.3	-34.4	-31.6	-27.7	-24.5	-21.1	-17.8	-15.8	-13.9	-14.0	-15.6	-18.8	-17.1	-20.0	-19.9	-17.4	-18.2	-26.8	-13.9
	-16.0	-16.5	-16.7	-16.9	-17.0	-16.9	-17.1	-17.3	-17.0	-16.2	-15.0	-13.6	-12.4	-11.3	-10.7	-10.5	-10.7	-11.6	-12.7	-13.5	-14.3	-14.7	-15.2	-15.9	Diurnal Average	
	3.9	3.1	2.2	1.5	1.2	1.4	2.6	2.2	2.5	3.5	4.6	6.1	7.5	9.3	10.6	10.4	9.2	7.6	6.1	4.3	4.8	5.0	5.0	4.4	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Patricia McInnes - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	200	29.76	29.76
-20 - 0	413	61.46	91.22
0 - 10	57	8.48	99.70
10 - 20	2	0.30	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 97.2 % on Feb 2 19:00

Maximum Daily Average: 88.1 % on Feb 2

Minimum Value: 34.0 % on Feb 13 17:00

Minimum Daily Average: 45.8 % on Feb 13

Maximum Diurnal Average: 79.1 % at hour 7

Minimum Diurnal Average: 65.4 % at hour 15

Monthly Average: 74.61 %

Percentiles: P_1 = 43.4 P_{10} = 55.8 Q_1 = 68.4 Median = 76.6 Q_3 = 83.8 P_{90} = 87.6 P_{99} = 95.1

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

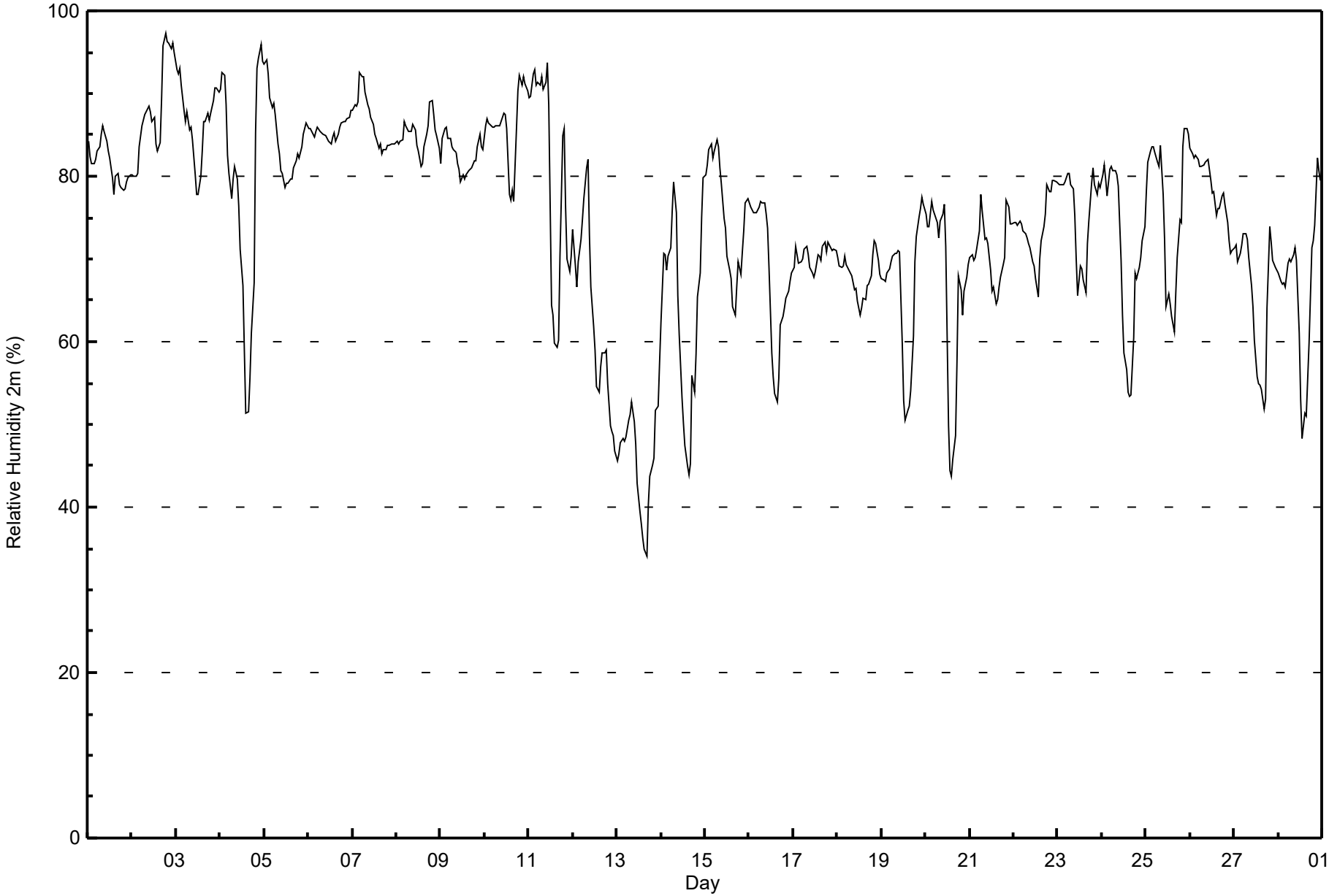
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	84.2	82.5	81.6	81.4	82.0	83.1	83.6	85.1	86.2	85.4	84.2	83.1	82.3	79.8	77.8	80.1	80.4	79.0	78.6	78.3	78.5	79.3	79.9	80.1	81.5	86.2
2-Feb	80.1	80.0	80.0	80.4	83.6	86.0	86.8	87.5	88.2	88.4	87.9	86.6	87.1	84.0	83.1	84.0	89.3	95.7	97.2	96.3	96.1	95.5	96.2	94.9	88.1	97.2
3-Feb	92.9	92.3	93.0	91.0	87.9	86.6	87.9	85.6	85.9	84.5	80.2	77.9	77.8	80.0	83.0	86.6	86.5	87.6	86.8	87.7	89.1	90.8	90.7	90.2	86.8	93.0
4-Feb	90.6	92.5	92.1	88.6	82.5	80.3	77.3	79.7	81.2	79.6	76.4	71.1	66.8	58.9	51.4	51.5	55.6	61.1	67.1	85.2	93.1	94.3	96.0	93.9	77.8	96.0
5-Feb	93.6	94.1	92.3	89.5	88.2	88.7	87.5	83.9	82.7	80.6	80.4	78.6	79.1	79.1	79.6	79.6	81.0	81.8	82.7	82.3	83.5	85.1	85.8	86.5	84.4	94.1
6-Feb	85.8	85.8	85.4	84.8	85.4	85.9	85.5	85.2	85.1	84.9	84.6	84.3	83.9	84.8	85.2	84.3	85.1	86.0	86.4	86.5	86.6	86.9	87.0	88.0	85.6	88.0
7-Feb	87.9	88.7	88.6	88.9	92.5	92.1	92.1	90.1	88.7	88.1	87.2	86.3	85.1	84.6	83.3	84.0	82.7	83.2	83.3	83.8	83.8	83.9	83.9	84.0	86.5	92.5
8-Feb	84.2	84.0	84.3	84.4	86.6	86.2	85.5	85.4	85.5	86.2	85.5	83.8	83.1	81.3	81.5	83.5	85.0	86.0	89.0	89.2	87.4	85.6	84.9	83.3	85.1	89.2
9-Feb	81.5	84.6	85.8	85.9	84.6	84.6	83.6	83.2	82.9	81.5	80.9	79.3	80.2	79.7	80.2	80.7	80.9	81.0	81.8	81.8	83.5	85.2	83.5	83.2	82.5	85.9
10-Feb	86.2	87.0	86.4	86.2	85.9	85.9	86.0	86.1	86.2	86.5	87.6	87.4	85.8	77.9	77.1	78.3	77.0	85.8	90.3	92.2	91.1	92.0	91.2	90.4	86.1	92.2
11-Feb	89.6	89.7	92.4	92.8	91.0	91.3	91.0	92.0	90.5	91.4	93.7	88.6	64.5	63.3	59.8	59.3	60.2	70.4	84.9	85.8	76.4	70.0	68.5	70.3	80.3	93.7
12-Feb	73.6	69.1	66.5	69.7	72.4	74.8	77.3	80.9	82.0	72.9	66.7	61.8	58.9	54.6	53.9	56.9	58.6	58.7	58.9	54.8	49.8	49.1	48.6	46.8	63.2	82.0
13-Feb	45.7	46.4	47.8	48.2	48.0	48.5	50.5	51.1	52.6	50.3	47.7	43.0	39.4	38.0	36.3	35.0	34.0	40.4	43.6	45.1	45.9	51.8	52.2	57.5	45.8	57.5
14-Feb	62.4	70.6	70.4	68.6	70.4	71.4	75.8	79.3	75.6	65.5	60.8	53.3	50.2	47.4	44.9	43.8	45.2	55.9	54.0	58.5	65.5	68.2	75.0	79.8	63.0	79.8
15-Feb	80.1	81.4	83.3	83.9	82.2	83.1	84.4	83.6	81.1	79.1	74.9	73.8	70.3	68.6	67.6	64.2	63.2	66.6	69.7	68.1	70.9	73.5	76.7	77.2	75.3	84.4
16-Feb	76.7	76.3	75.6	75.5	75.6	76.3	77.0	76.7	76.8	75.4	73.7	69.1	58.6	55.7	53.7	52.8	55.7	62.0	63.0	64.1	65.2	66.1	67.3	68.3	68.2	77.0
17-Feb	69.1	71.4	70.6	69.5	69.7	70.0	71.1	71.5	70.6	69.0	68.4	67.8	68.4	70.5	70.3	69.9	71.5	72.0	70.8	72.1	71.3	71.0	71.3	71.1	70.4	72.1
18-Feb	70.2	69.2	69.0	69.2	70.4	69.4	68.7	68.2	68.0	66.3	66.4	64.9	63.1	64.0	65.2	65.1	66.7	66.9	68.0	70.5	72.2	71.8	69.8	68.2	68.0	72.2
19-Feb	67.6	67.5	67.4	68.3	68.9	69.7	70.3	70.7	70.7	71.0	70.8	59.8	52.9	50.5	51.7	52.2	54.1	60.7	69.6	72.7	75.0	76.1	77.5	76.6	66.3	77.5
20-Feb	75.4	74.0	74.0	76.9	76.0	75.5	74.4	72.6	74.6	75.4	76.6	71.5	49.8	44.4	43.8	45.7	48.7	57.4	68.0	66.3	63.1	66.0	67.7	69.3	66.1	76.9
21-Feb	70.1	70.6	69.8	70.2	71.2	73.4	77.7	75.7	72.3	72.5	71.8	68.7	66.1	66.7	64.6	65.1	66.7	67.8	69.2	70.2	77.0	76.2	74.2	74.3	70.9	77.7
22-Feb	74.5	74.4	74.1	74.5	74.2	73.4	73.0	72.6	71.9	71.3	69.7	69.2	67.7	65.4	70.0	72.2	73.8	75.5	79.0	78.1	78.2	79.4	79.4	79.4	73.8	79.4
23-Feb	79.2	78.9	79.1	78.9	79.3	80.4	80.3	79.0	78.5	75.2	70.0	65.5	69.1	68.8	67.5	66.0	71.9	74.6	79.1	81.1	79.0	77.9	79.1	78.6	75.7	81.1
24-Feb	80.2	81.3	79.6	77.7	80.8	81.1	80.7	80.7	80.1	78.7	69.8	63.2	58.7	56.6	53.9	53.4	53.5	60.5	68.4	67.6	69.0	70.2	72.1	73.8	70.5	81.3
25-Feb	78.1	81.6	83.1	83.5	83.6	82.9	81.8	81.2	83.7	77.9	72.4	64.2	65.8	64.6	63.1	61.2	65.9	70.1	74.7	74.3	83.6	85.7	85.7	85.1	76.4	85.7
26-Feb	83.5	82.8	82.2	82.6	82.1	81.2	81.3	81.3	81.6	81.9	82.1	79.5	78.0	78.1	75.2	76.1	76.2	77.7	77.9	76.7	74.4	72.2	70.6	71.0	78.6	83.5
27-Feb	71.4	71.7	69.7	70.6	71.6	73.0	73.0	72.4	70.2	66.8	64.2	60.2	55.8	54.8	54.8	54.2	51.8	53.1	64.1	73.8	72.0	69.9	69.1	68.7	65.7	73.8
28-Feb	68.3	67.3	67.0	67.2	66.5	69.5	70.0	69.6	70.4	71.4	69.9	61.0	53.1	48.3	51.3	50.9	55.4	59.8	71.3	72.3	74.0	82.2	80.7	79.6	66.6	82.2
	77.9	78.4	78.2	78.2	78.3	78.7	79.1	79.0	78.7	77.1	75.2	71.5	67.9	66.1	65.4	65.6	67.0	70.6	74.2	75.5	76.3	77.0	77.3	77.5	Diurnal Average	
	93.6	94.1	93.0	92.8	92.5	92.1	92.1	92.0	90.5	91.4	93.7	88.6	87.1	84.8	85.2	86.6	89.3	95.7	97.2	96.3	96.1	95.5	96.2	94.9	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Patricia McInnes - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Patricia McInnes - February 2026

Maximum Speed: 33 km/h on Feb 17 22:00

Maximum Daily Speed Average: 26.9 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 10 11:00

Minimum Daily Speed Average: 1.3 km/h on Feb 10

Maximum Diurnal Speed Average: 4.4 km/h at hour 21

Minimum Diurnal Speed Average: 2.1 km/h at hour 13

Monthly Average Velocity: 3.3 km/h 356.1 deg

Percentiles: P_1 = 1 P_{10} = 4 Q_1 = 6 Median = 10 Q_3 = 14 P_{90} = 19 P_{99} = 30

Hours in Service:	672
Hours of Data:	659
Hours of Missing Data:	13
Percent Operational Time:	98.1

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE8	E7	E7	ESE8	ESE8	ESE8	ESE6	ESE10	ESE13	SE16	ESE16	SE14	ESE14	ESE15	ESE16	ESE15	ESE16	ESE15	SE17	ESE16	ESE16	ESE13	ESE12	ESE11	ESE12.0	SE17
2-Feb	SE11	SE13	SE12	SE11	SE10	SE11	SE11	SE11	SE10	SE8	SE8	SE6	SSE4	SE5	SE5	SE5	SSE5	S2	ENE1	NW2	NNE4	N8	N8	N7	SE5.3	SE13
3-Feb	NNW8	NNW7	N8	N10	NNW7	N6	NNW6	N6	NNE7	N4	NNE2	NNW2	E2	E6	SE6	SE7	SE7	SE11	SE12	SE10	SE10	SE9	SE11	SE12	E3.1	SE12
4-Feb	SE10	SE12	SE10	SSE10	SSW12	SW17	WSW22	WSW23	WSW26	WSW24	WSW22	WSW21	WSW18	W18	WNW18	W18	W15	W14	NW12	NNW19	N15	N15	N12	N14	W10.0	WSW26
5-Feb	N14	N16	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	M	M	N4	NE4	ENE6	SE5	ENE5	NE7	NE7	ENE5	ENE5	----	N16
6-Feb	ENE5	E7	ESE9	ESE11	ESE12	ESE13	ESE14	ESE15	ESE14	ESE14	ESE12	ESE13	ESE12	ESE16	ESE14	ESE12	ESE11	ESE10	E8	ESE10	ESE14	SE11	ESE8	E4	ESE11.1	ESE16
7-Feb	W2	WNW5	WNW5	NNW4	N6	N5	N10	NNW13	N15	N15	NNW14	NNW12	NNW15	N14	N13	N13	NNW12	N13	N11	N11	N10	N11	N10	N10	N10.0	N15
8-Feb	N10	N9	N9	N8	N9	N11	NNW9	NNW9	NNW10	NW6	WNW6	NNW8	NNW11	NNW12	N12	N12	N11	N10	N9	NNW8	NNW8	N7	NNW7	N6	NNW8.8	N12
9-Feb	N3	W3	E2	E2	ENE4	ENE4	E4	NE7	ENE5	NNE8	NNE9	N8	NNE9	N11	N10	N12	N13	N14	NNW13	N13	N13	N12	NNW11	N11	N7.4	N14
10-Feb	NNW11	NNW10	N8	N7	N6	N3	N3	N3	NNW2	NNW1	SSE0	SSE6	SE10	SE10	SE9	SE9	SE7	SSE5	S5	S5	SSW6	SSW7	SSW7	S7	SE1.3	NNW11
11-Feb	S8	SSW7	SW8	SSW7	SE5	E4	E5	E4	ESE4	ESE4	E4	SSE4	SW11	SW10	WSW11	WSW11	SW8	SW5	SSE4	SSW5	SW8	WSW11	WSW10	SW6	SSW4.7	WSW11
12-Feb	SSW6	SW9	WSW12	WSW12	WSW11	WSW13	WSW10	SW7	S9	S9	S6	S8	SW14	SW14	SSW10	S9	S9	SSW11	SSW11	SSW12	SSW9	SW13	SW17	SW17	SW10.0	SW17
13-Feb	SW20	WSW18	WSW19	WSW20	WSW21	WSW19	WSW18	WSW10	WSW13	WSW20	WSW19	WSW18	WSW13	WSW15	WSW14	WSW12	W10	SW8	SW8	WSW9	WSW9	SW10	WSW12	SW10	WSW14.2	WSW21
14-Feb	SW7	SSW6	SW8	SW10	SW10	SW9	SSW6	S7	SSW7	SSW9	SSW10	SW11	SW14	WSW14	WSW12	SW10	SW7	WNW3	W10	NNW10	NNW6	NNE1	SSW3	SW3	SW6.4	SW14
15-Feb	NNW11	NW8	N14	NNW18	NNW15	N15	N11	NNW9	N11	N11	N12	N12	N12	N11	N10	N9	N9	NNE8	N9	N8	N7	NNW6	N6	N5	N10.1	NNW18
16-Feb	NW4	NW6	WNW3	NW3	NNW5	N5	N6	N5	NNE6	NNE6	NNE7	NE9	NNE5	NNE7	NNE10	N9	N13	N11	N15	N16	N15	N17	N18	N19	N8.7	N19
17-Feb	N18	N19	N22	N22	N23	N23	N24	N25	N24	N26	N27	N28	N29	N29	N29	N30	N30	N29	N31	N30	N32	N33	N33	N31	N26.9	N33
18-Feb	N29	N29	N27	N28	N29	N30	N27	N24	N22	N23	N23	N22	N21	N20	NNW18	N16	NNW15	NNW14	NNW9	NW6	NW7	WNW5	WSW4	WSW5	N17.9	N30
19-Feb	WSW5	SSW3	S4	S5	S5	S8	S9	S7	SSW6	S8	S9	SSW11	S9	SSW10	SW12	SW11	SSW9	S5	SSE7	S7	SSE7	SSE7	S7	SSW5	S6.9	SW12
20-Feb	SSW5	SSW6	S5	SSE7	SSE8	SE6	SSE3	SSE3	S6	S4	SSE4	S4	SE3	E2	ENE3	N6	N8	NNW9	NNW12	N15	NNW17	NNW18	NNW17	N14	N2.2	NNW18
21-Feb	NNW16	NNW15	NNW17	NNW17	NNW17	N15	NNW9	N9	N7	N10	N12	N11	NNE9	N11	N16	N17	N16	NNE15	NNE12	NNE13	N15	N14	N15	N16	N13.1	NNW17
22-Feb	N17	N15	NNW16	N16	NNW16	NNW17	NNW15	NNW13	N13	N13	N11	N11	N11	N8	N10	N9	N8	N7	NE6	ESE14	ESE15	ESE13	ESE13	ESE13	NNE8.6	NNW17
23-Feb	ESE13	ESE12	ESE13	ESE9	ESE9	SE6	SSE6	SE6	ESE4	NW1	NE0	ENE2	ESE3	E4	E3	ESE3	SE4	ESE4	SSE2	SW3	SW4	S2	S4	SW4	SE4.2	ESE13
24-Feb	NW3	N2	SSW1	SW4	WSW8	SW5	SSW4	S4	SSW5	S7	SSW7	S9	S10	SW9	WSW11	SW10	SSW7	SSE6	SE7	SE7	SE11	SE11	SE10	SE11	S4.8	SE11
25-Feb	SE10	ESE9	ESE5	SE3	NW1	N6	N5	N3	S3	S5	SSE4	S6	SSE7	SSE6	ESE6	SE6	ESE4	E3	NNE3	N6	NNW10	N11	NNW11	N15	ENE1.7	N15
26-Feb	N16	N17	N16	N14	N12	N13	N15	N17	N14	N16	NNW20	N23	NNW26	N26	NNW29	N28	N26	N28	N25	N28	N29	NNW29	N26	N23	N21.5	N29
27-Feb	N20	N19	N15	N15	N12	N10	N10	NNW11	N13	N12	N12	N9	N9	N10	NNE9	N8	N4	NNW4	WNW5	NNW6	WNW5	NW6	NW5	W3	N9.1	N20
28-Feb	W3	WSW1	S1	S4	S5	SSE5	S6	SSE7	SSE6	SSE8	SSE8	SSE8	SE7	SE7	SE10	SE8	ESE6	ESE4	ESE2	S6	SE5	S9	SSE9	S9	SSE5.3	SE10
	N4.3	N3.8	N3.2	N3.2	NNW3.4	NNW3.5	NNW3.0	N3.0	N2.5	N2.4	NNW2.7	NNW2.4	NNW2.1	NNW2.9	N3.3	N3.4	N3.4	N3.7	N3.6	N4.1	N4.4	N4.1	N3.4	N3.5	Diurnal Average	
	N29	N29	N27	N28	N29	N30	N27	N25	WSW26	N26	N27	N28	N29	N29	N29	N30	N30	N29	N31	N30	N32	N33	N33	N31	Diurnal Maximum	

M - Maintenance UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Patricia McInnes - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 7 km/h on Feb 26 17:00

Minimum Value: 0 km/h on Feb 19 00:00

Percentiles: $P_1 = 1$ $P_{10} = 1$ $Q_1 = 1$ Median = 2 $Q_3 = 3$ $P_{90} = 4$ $P_{99} = 6$

Hours in Service:	672
Hours of Data:	659
Hours of Missing Data:	13
Hours of Calibration:	0
Percent Operational Time:	98.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	1	2	2	2	2	1	3	3	4	4	4	3	3	3	3	3	4	4	4	3	3	3	2	4
2-Feb	3	3	2	2	2	3	2	2	2	2	2	1	1	1	1	1	1	2	1	1	3	1	2	1	3
3-Feb	1	1	3	2	1	1	1	1	1	1	1	1	1	2	1	2	2	2	2	2	2	2	2	2	3
4-Feb	2	2	2	2	3	3	4	4	4	4	4	4	3	3	3	3	3	2	3	3	4	3	3	3	4
5-Feb	3	3	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	M	M	2	2	2	1	2	1	2	1	2	3
6-Feb	2	2	3	3	3	3	3	3	3	4	3	3	4	3	4	3	3	2	2	2	3	2	2	1	4
7-Feb	1	2	1	2	1	1	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
8-Feb	2	2	2	1	1	2	2	1	2	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	2
9-Feb	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2	3
10-Feb	2	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	2
11-Feb	1	1	1	1	1	1	1	1	1	1	1	1	3	4	3	3	2	1	1	1	2	2	2	1	4
12-Feb	1	2	3	2	2	2	2	2	2	2	1	1	3	3	2	2	2	2	2	3	2	3	3	3	3
13-Feb	4	3	3	3	3	3	3	5	3	4	4	4	3	3	3	3	3	2	1	1	1	2	1	3	5
14-Feb	1	1	2	2	2	2	2	2	4	2	2	2	3	3	2	2	1	2	3	2	1	1	1	2	4
15-Feb	4	2	3	4	3	3	2	2	2	2	2	2	2	2	2	2	1	1	2	1	1	1	1	1	4
16-Feb	1	1	1	1	1	1	1	1	2	1	2	1	2	2	2	3	3	2	3	2	3	3	4	4	4
17-Feb	3	4	4	4	5	5	5	5	5	5	6	6	6	6	6	7	6	6	7	6	6	6	7	6	7
18-Feb	6	6	7	6	6	6	6	5	5	5	5	5	4	4	4	3	3	2	2	1	1	1	0	0	7
19-Feb	1	1	1	1	1	1	2	2	1	2	2	2	2	3	3	3	2	1	1	1	1	1	1	1	3
20-Feb	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	2	2	2	1	2	3	3	3	3	3
21-Feb	2	3	3	3	3	3	2	3	1	2	2	2	2	3	3	3	4	3	2	3	3	3	3	3	4
22-Feb	3	3	3	3	3	3	3	3	3	2	2	2	2	1	2	2	1	1	2	3	3	3	3	3	3
23-Feb	3	3	3	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	3
24-Feb	1	1	1	2	1	1	1	1	1	1	1	2	2	2	2	3	2	1	1	1	3	2	2	2	3
25-Feb	3	2	2	1	2	1	1	1	2	2	1	2	1	1	1	1	1	1	2	1	1	2	2	2	3
26-Feb	3	3	3	3	2	3	2	3	3	3	3	4	5	5	6	6	7	7	6	6	6	6	6	5	7
27-Feb	5	5	3	3	3	3	2	1	2	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	5
28-Feb	1	1	1	1	1	1	1	1	1	1	2	1	2	2	2	2	1	1	1	2	1	1	1	1	2
	6	6	7	6	6	6	6	5	5	5	6	6	6	6	6	7	7	7	7	6	6	6	7	6	
	Diurnal Maximum																								

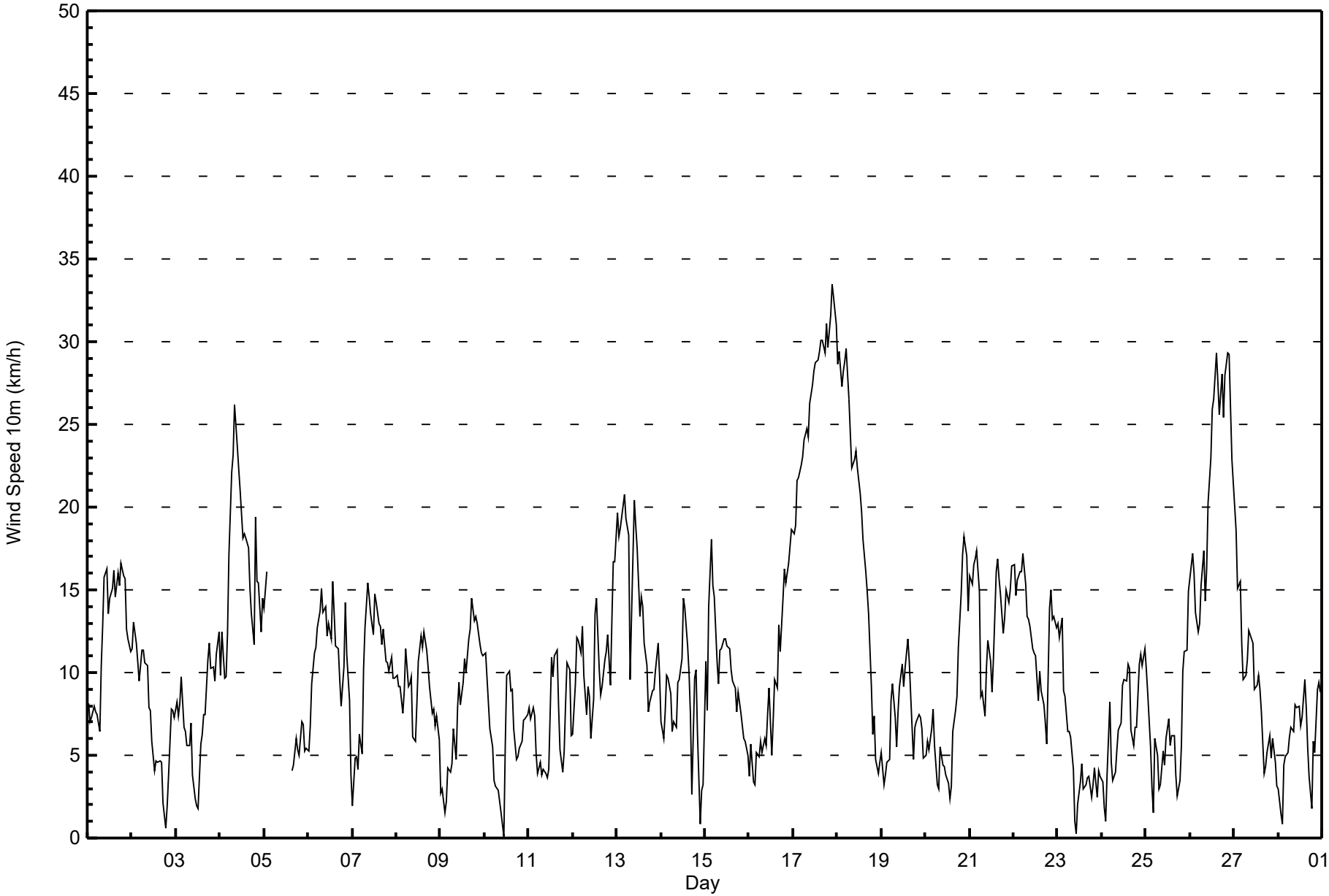
M - Maintenance UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Patricia McInnes - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	136	20.64	20.64
6 - 11	288	43.70	64.34
12 - 19	174	26.40	90.74
20 - 28	42	6.37	97.12
29 - 38	19	2.88	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 659

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Patricia McInnes - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	14	6	1	10	13	10	9	13	16	9	7	4	4	7	7	6	136
6 - 11	70	12	6	1	5	17	41	18	24	23	22	12	2	1	6	28	288
12 - 19	65	3	0	0	0	33	8	0	0	3	7	18	4	1	1	31	174
20 - 28	30	0	0	0	0	0	0	0	0	0	1	9	0	0	0	2	42
29 - 38	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	19
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	196	21	7	11	18	60	58	31	40	35	37	43	10	9	14	69	659

Total Number of Valid Hours: 659

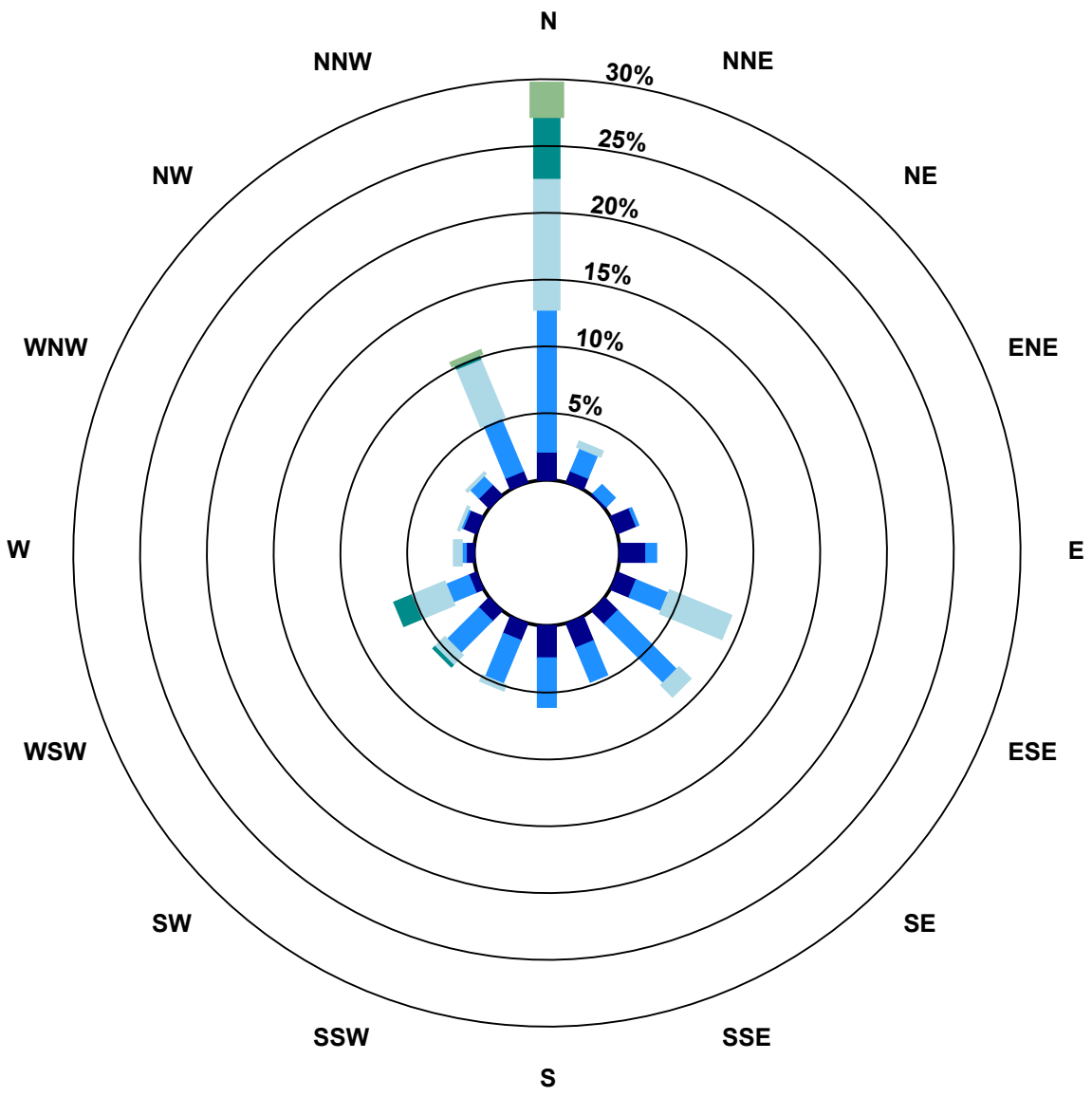
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Patricia McInnes



Classes (km/h)

- 0 - 5
- 6 - 11
- 12 - 19
- 20 - 28
- 29 - 38
- > 38

Total Number of Valid Hours: 659

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Patricia McInnes - February 2026

Direction of Maximum Speed: 6 deg on Feb 17 22:00
Direction of Maximum Daily Speed Average: 3.0 deg on Feb 17

Direction of Minimum Speed: 150 deg on Feb 10 11:00
Direction of Minimum Daily Speed Average: 1.3 deg on Feb 10

Monthly Average Direction: 356.1 deg

Hours in Service:	672
Hours of Data:	659
Hours of Missing Data:	13
Percent Operational Time:	98.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	46	80	96	110	103	107	114	115	121	126	123	126	117	119	119	121	121	121	124	123	120	122	123	118	116.9
2-Feb	126	128	131	132	134	133	133	133	131	133	130	127	150	138	141	140	157	170	68	319	12	9	359	352	124.3
3-Feb	347	345	3	2	336	358	342	11	16	353	14	344	97	94	131	130	126	129	128	133	127	136	133	138	85.5
4-Feb	135	131	140	168	210	235	245	249	249	253	250	253	244	259	283	280	268	259	304	347	354	355	357	2	263.9
5-Feb	1	360	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	M	M	7	54	59	125	70	49	45	57	57	--
6-Feb	76	92	107	110	112	112	109	113	111	114	112	113	117	114	119	117	116	104	101	119	123	126	120	100	112.5
7-Feb	273	297	295	348	360	352	4	344	4	2	345	344	344	352	2	353	347	354	359	1	359	352	356	352	351.6
8-Feb	350	349	358	353	356	357	348	339	338	326	285	341	336	341	357	349	356	353	350	337	345	353	343	360	346.6
9-Feb	7	273	100	92	64	70	79	38	74	32	25	11	12	4	357	352	352	350	347	350	349	349	347	351	4.3
10-Feb	347	348	353	354	352	2	9	2	344	345	150	147	134	126	142	142	138	166	178	191	200	207	200	187	142.5
11-Feb	185	192	215	207	131	84	80	86	105	105	101	149	231	236	238	243	215	229	165	192	219	237	237	217	207.2
12-Feb	200	230	240	246	237	247	243	218	180	190	184	190	214	221	213	178	184	194	192	197	204	224	234	236	215.7
13-Feb	236	240	244	246	250	253	245	246	238	243	252	257	255	240	238	248	263	227	227	245	252	233	239	229	244.5
14-Feb	226	195	216	224	228	218	193	184	203	213	207	214	223	245	245	231	236	302	281	339	339	19	205	233	230.0
15-Feb	344	321	351	348	345	349	350	336	351	357	358	359	356	1	9	5	9	18	359	355	357	348	354	353	353.5
16-Feb	312	318	292	326	328	354	355	357	19	21	32	37	16	22	13	351	358	353	350	352	0	359	1	3	359.2
17-Feb	358	354	359	351	358	358	3	4	3	3	2	2	4	7	5	4	4	5	6	6	6	6	5	5	3.0
18-Feb	5	4	4	4	4	5	7	5	1	0	357	355	357	353	344	355	340	333	328	309	308	295	250	243	355.7
19-Feb	238	208	190	185	189	185	180	173	196	187	184	192	188	198	225	214	198	183	161	171	160	159	185	208	190.1
20-Feb	193	192	185	157	163	145	155	149	181	178	152	169	143	90	77	9	8	348	338	349	348	347	345	349	356.4
21-Feb	345	345	344	345	344	352	347	352	351	357	353	352	28	0	6	9	11	13	23	30	6	356	355	4	359.1
22-Feb	0	350	347	349	343	345	348	347	355	356	353	6	1	3	7	8	355	358	50	111	108	111	115	114	12.0
23-Feb	116	119	123	120	123	134	148	138	108	320	34	76	122	83	81	112	135	121	162	224	231	191	171	223	130.1
24-Feb	319	10	199	216	255	225	212	169	195	189	195	180	175	233	237	218	205	162	133	125	127	128	126	128	179.4
25-Feb	125	121	117	124	310	7	352	356	191	169	150	178	155	160	119	139	102	93	22	350	347	350	348	352	65.2
26-Feb	354	360	355	1	349	352	351	351	357	355	348	351	344	353	348	357	354	352	355	350	350	347	353	356	352.1
27-Feb	359	1	0	360	354	355	350	331	349	3	355	353	352	6	13	9	11	347	300	339	299	309	306	271	351.4
28-Feb	281	249	169	175	178	164	169	165	155	160	160	153	136	127	134	125	112	109	107	170	139	172	164	191	155.3
	357.6	356.9	355.1	349.7	339.3	347.3	348.3	356.0	359.6	351.5	348.7	348.6	342.4	348.6	350.2	355.3	2.1	5.1	5.6	7.8	9.8	0.7	357.0	359.5	
	Diurnal Average																								

M - Maintenance UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Patricia McInnes - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 97 deg on Feb 10 11:00

Minimum Value: 5 deg on Feb 24 05:00

Percentiles: P_1 = 7 P_{10} = 10 Q_1 = 12 Median = 14 Q_3 = 17 P_{90} = 26 P_{99} = 74

Hours in Service:	672
Hours of Data:	659
Hours of Missing Data:	13
Hours of Calibration:	0
Percent Operational Time:	98.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	15	21	14	16	13	13	13	12	15	13	13	16	12	13	13	12	11	12	12	12	11	12	12	11	21
2-Feb	12	12	13	12	12	13	13	12	13	13	13	14	23	22	22	18	14	71	76	30	35	11	13	13	76
3-Feb	13	12	18	16	16	16	16	23	18	28	41	52	76	15	19	16	16	12	12	12	12	12	11	12	76
4-Feb	14	14	22	19	14	15	10	9	8	9	9	9	10	11	12	10	8	7	40	11	14	13	14	13	40
5-Feb	13	15	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	M	M	40	36	24	26	27	15	16	17	21	40
6-Feb	24	17	15	13	13	13	13	13	13	13	14	14	15	12	14	15	13	13	15	14	13	14	15	23	24
7-Feb	56	24	22	34	16	17	16	12	12	15	12	11	11	15	16	16	12	14	14	13	14	12	14	11	56
8-Feb	12	18	19	11	12	13	11	9	10	13	18	15	11	14	14	12	14	13	12	11	11	14	11	15	19
9-Feb	32	30	56	38	27	24	21	14	32	25	15	14	16	14	13	13	13	12	13	13	12	14	12	12	56
10-Feb	12	12	13	13	15	22	25	23	18	27	97	15	16	15	19	13	11	25	12	14	11	13	10	17	97
11-Feb	8	9	10	27	26	24	12	18	9	13	19	21	17	22	17	15	14	7	27	17	9	8	9	10	27
12-Feb	8	13	10	9	9	8	8	17	17	14	22	16	16	13	17	14	20	11	10	15	15	13	10	10	22
13-Feb	9	10	9	9	8	8	9	24	9	10	10	13	14	13	13	13	16	10	8	7	6	9	9	12	24
14-Feb	15	22	14	12	12	15	23	12	37	13	17	14	13	16	13	13	11	63	11	17	12	74	16	25	74
15-Feb	14	17	13	11	10	12	16	12	12	15	14	15	15	14	16	16	17	13	13	15	16	11	8	8	17
16-Feb	23	7	26	30	17	10	12	12	14	20	16	16	34	25	19	22	13	11	11	12	13	14	14	15	34
17-Feb	14	15	15	13	16	16	16	15	16	17	16	17	16	13	15	16	16	15	16	15	15	15	15	16	17
18-Feb	15	16	15	15	15	15	14	15	15	16	16	14	16	15	13	15	11	10	8	13	14	12	14	6	16
19-Feb	6	15	9	12	12	11	15	13	17	13	12	16	15	20	19	20	16	20	7	7	10	10	7	15	20
20-Feb	12	7	8	14	7	20	51	54	18	20	21	30	39	58	54	20	15	12	8	10	11	10	10	13	58
21-Feb	11	10	9	9	9	13	24	14	14	14	14	14	21	15	14	13	12	10	11	16	12	13	14	14	24
22-Feb	14	12	11	12	9	9	11	12	13	14	13	16	16	15	11	11	12	12	36	13	12	13	12	13	36
23-Feb	12	13	12	14	14	13	19	27	30	67	91	66	41	25	25	37	29	21	33	18	13	18	16	21	91
24-Feb	31	31	65	36	5	35	27	18	15	14	22	15	17	25	19	14	25	13	12	11	12	11	14	14	65
25-Feb	13	13	21	19	69	15	16	35	59	33	30	30	20	24	22	17	35	40	73	17	8	12	11	12	73
26-Feb	14	14	15	13	13	13	13	11	14	13	10	13	11	15	16	16	16	16	16	15	13	12	15	15	16
27-Feb	16	15	15	14	14	20	13	8	18	16	19	27	22	22	19	21	29	22	12	19	33	9	25	22	33
28-Feb	22	49	82	13	8	12	10	11	11	12	15	17	19	16	16	14	12	25	74	14	17	6	6	17	82
	56	49	82	38	69	35	51	54	59	67	97	66	76	58	54	40	36	71	76	30	35	74	25	25	
	Diurnal Maximum																								

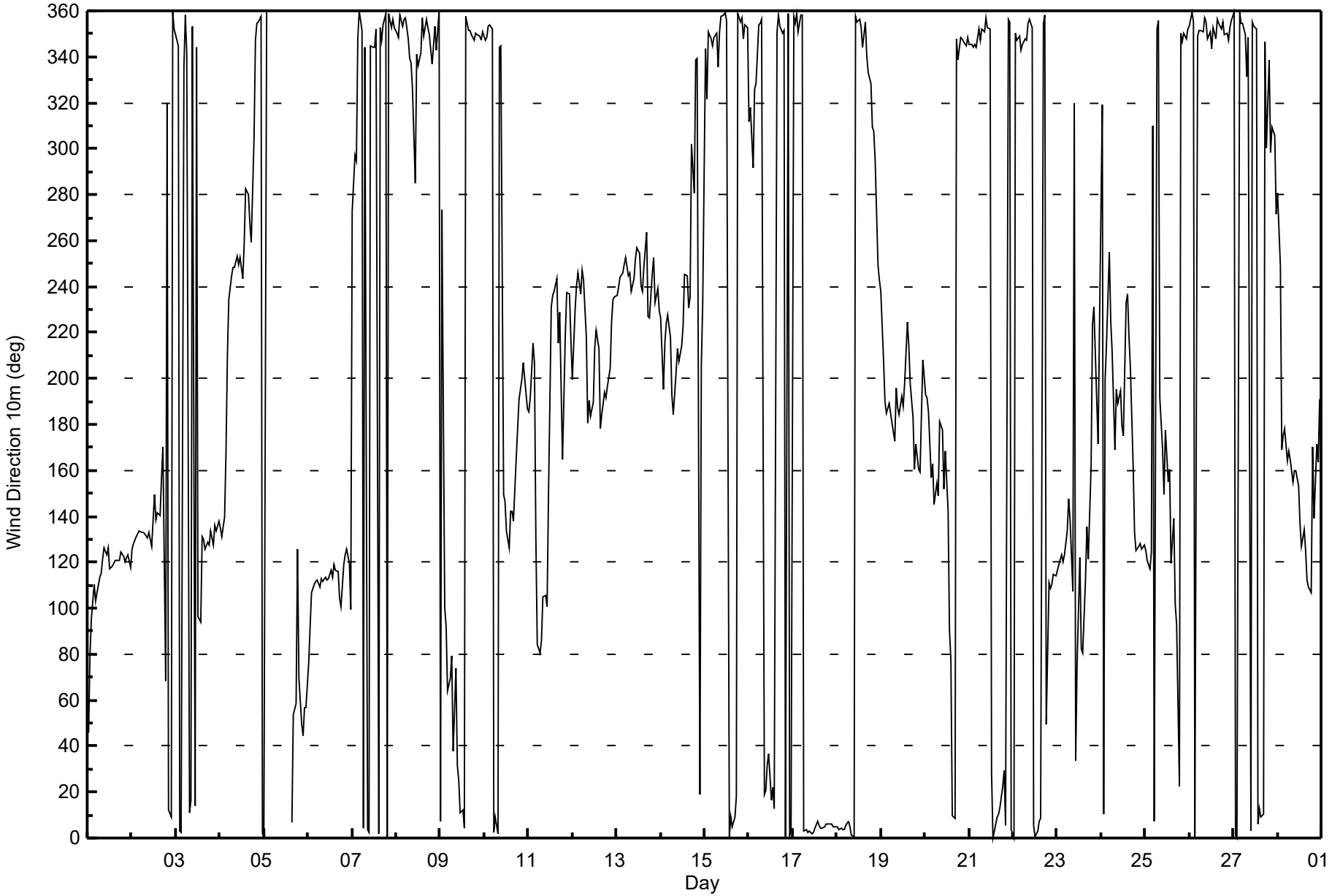
M - Maintenance UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Patricia McInnes - February 2026



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS07
ATHABASCA VALLEY
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - ATHABASCA VALLEY (AMS07)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-Min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	639	32	33	99.85	-	-	8.7	0	1.5	0
TRS (ppb) Average	637	34	35	99.85	1.6	0	1.4	0	0.7	0
THC (ppm) Average	636	32	36	99.4	-	-	2.8	-	2.3	-
NMHC (ppm) Average	636	32	36	99.4	-	-	0.372	-	0.052	-
CH4(ppm) Average	636	32	36	99.4	-	-	2.8	-	2.3	-
O3 (ppb) Average	640	32	32	100	-	-	45.2	0	34.2	-
NO2 (ppb) Average	637	34	35	99.85	-	-	44.6	0	21.3	-
NO (ppb) Average	637	34	35	99.85	-	-	58.2	-	12.2	-
NOX (ppb) Average	637	34	35	99.85	-	-	100.3	-	31.3	-
PM2.5 (ug/m3) Average	671	1	1	100	-	-	22.3	0	10.1	0
CO(ppm) Average	639	32	33	99.85	-	-	0.7	0	0.3	-
Temperature 2 m (C) Average	672	0	0	100	-	-	10.6	-	3.6	-
Relative Humidity (%) Average	672	0	0	100	-	-	92.5	-	82.5	-
Barometric Pressure (inHg) Average	672	0	0	100	-	-	30.1	-	29.9	-
Wind Speed 10 m (km/h) Average	672	0	0	100	-	-	29	-	23	-
Wind Direction 10 m (deg) Average	672	0	0	100	-	-	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - ATHABASCA VALLEY (AMS07)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	639	0.44	0.8	-	0	0	0.1	0.2	0.4	1.1	8.7
TRS (ppb) Average	637	0.27	0.2	-	0.1	0.1	0.2	0.2	0.3	0.4	1.4
THC (ppm) Average	636	2.12	0.1	-	2	2	2.1	2.1	2.2	2.2	2.8
NMHC (ppm) Average	636	0.005	0.029	-	0	0	0	0	0	0	0.372
CH4(ppm) Average	636	2.12	0.1	-	2	2	2.1	2.1	2.2	2.2	2.8
O3 (ppb) Average	640	18.18	9.4	-	0.7	4.9	11	18.7	24.8	30	45.2
NO2 (ppb) Average	637	10.93	8.2	-	0.5	3.3	5.4	9	13.5	21	44.6
NO (ppb) Average	637	4.58	6.9	-	0	0.1	0.4	1.7	6.1	13.5	58.2
NOX (ppb) Average	637	15.51	13.8	-	0.6	4	6.7	11.5	18.6	32.6	100.3
PM2.5 (ug/m3) Average	671	5	2.8	-	1.4	2.6	3.1	4.2	6	8.4	22.3
CO(ppm) Average	639	0.16	0.1	-	0.1	0.1	0.1	0.1	0.2	0.2	0.7
Temperature 2 m (C) Average	672	-14.51	10.1	-	-39.2	-28.4	-22.1	-13.3	-8.1	-2.1	10.6
Relative Humidity (%) Average	672	70.64	11.2	-	32.7	54.6	64	72.2	79.1	83.6	92.5
Barometric Pressure (inHg) Average	672	29.11	0.3	-	28.5	28.8	28.9	29.1	29.3	29.5	30.1
Wind Speed 10 m (km/h) Average	672	9.2	6	-	0	2	5	8	12	18	29
Wind Direction 10 m (deg) Average	672	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - ATHABASCA VALLEY (AMS07)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
CO,NMHC,NO2, SO2,TRS	27 Feb 2026 14:00	27 Feb 2026 14:00	1	Maintenance - sample manifold cleaned
THC/NMHC/CH4	24 Feb 2026 11:00	24 Feb 2026 11:00	1	Maintenance - station operator activities
THC/NMHC/CH4	25 Feb 2026 12:00	25 Feb 2026 13:00	2	Maintenance - replaced support gas cylinder

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Athabasca Valley - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 8.7 ppb on Feb 15 16:00

Maximum Daily Average: 1.5 ppb on Feb 5

Minimum Value: 0.0 ppb on Feb 4 20:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 0.9 ppb at hour 16

Minimum Diurnal Average: 0.2 ppb at hour 4

Monthly Average: 0.44 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.2 Q_3 = 0.4 P_{90} = 1.1 P_{99} = 4.0

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	1.8	1.4	0.2	0.7	0.4	0.3	0.3	0.3	0.5	0.4	0.3	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.4	1.8
2-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.4
3-Feb	0.2	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0.3
4-Feb	0.3	0.3	0.4	Z	0.3	0.2	0.2	0.2	0.2	0.3	0.4	C	C	C	C	0.2	0.2	0.1	0.1	0.0	1.5	4.2	0.2	0.1	0.5	4.2
5-Feb	0.0	0.1	0.0	0.0	Z	0.1	0.9	1.3	0.1	0.0	0.7	0.3	2.2	3.1	2.2	1.5	1.6	3.3	5.8	5.4	3.7	1.3	0.4	0.2	1.5	5.8
6-Feb	0.2	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.2
7-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.4	0.3	0.1	0.6
8-Feb	0.3	Z	0.5	0.6	0.4	0.5	0.4	0.5	0.6	0.7	0.6	0.6	0.9	3.1	2.2	3.6	4.4	1.2	0.5	0.4	0.5	0.2	0.1	0.1	1.0	4.4
9-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.6	1.2	0.5	0.3	0.2	1.0	0.2	0.1	2.3	1.8	0.4	2.3
10-Feb	1.1	0.9	1.1	Z	0.6	0.4	0.4	0.3	0.3	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.1	0.4	1.1
11-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.3	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.7
12-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.4
13-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1
14-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.6	0.9	0.5	0.3	0.2	0.9
15-Feb	0.5	0.5	Z	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4	2.5	8.7	5.7	1.1	0.9	0.2	0.0	0.0	0.0	0.0	0.9	8.7
16-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.4	0.4	0.2	0.3	0.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.7
17-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	1.1	1.1	0.2	0.2	0.4	0.3	0.3	0.2	1.1
19-Feb	Z	0.2	0.5	0.6	0.7	0.7	0.8	0.6	0.4	0.5	0.7	0.6	0.5	0.4	0.2	0.2	0.2	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.4	0.8
20-Feb	0.1	Z	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.4	0.6	0.9	1.2	1.3	0.9	1.9	1.3	0.4	0.5	2.4	1.7	0.6	2.4
21-Feb	1.9	1.8	Z	1.3	1.1	0.8	0.8	1.0	1.1	1.0	1.0	0.6	0.6	0.4	0.5	0.2	0.2	0.1	0.1	0.2	0.1	0.0	0.1	0.0	0.6	1.9
22-Feb	0.0	0.0	0.1	Z	0.4	1.8	1.3	1.4	1.1	1.1	1.1	0.9	1.0	1.3	1.1	1.0	1.1	0.8	0.5	0.2	0.1	0.1	0.1	0.1	0.7	1.8
23-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.3
24-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3
25-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.2	0.5	0.6	0.3	0.3	0.6
26-Feb	0.3	Z	0.3	0.2	0.3	1.9	2.7	1.5	0.9	0.6	1.9	2.1	0.6	1.0	2.6	1.9	0.8	0.7	0.3	0.2	1.5	0.6	0.7	2.0	1.1	2.7
27-Feb	1.6	0.2	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	3.5	M	4.3	1.8	0.5	0.2	0.4	0.5	0.8	1.6	1.8	1.2	0.9	4.3
28-Feb	1.3	1.6	1.0	Z	1.3	0.8	0.8	0.8	0.5	0.6	0.5	0.6	0.8	0.8	0.8	1.0	0.8	0.6	0.4	0.4	0.3	0.3	0.2	0.1	0.7	1.6
	0.4	0.4	0.3	0.2	0.3	0.4	0.4	0.3	0.2	0.3	0.3	0.4	0.5	0.6	0.8	0.9	0.8	0.5	0.5	0.4	0.4	0.4	0.4	0.4	Diurnal Average	
	1.9	1.8	1.4	1.3	1.3	1.9	2.7	1.5	1.1	1.1	1.9	2.1	3.5	3.1	4.3	8.7	5.7	3.3	5.8	5.4	3.7	4.2	2.4	2.0	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

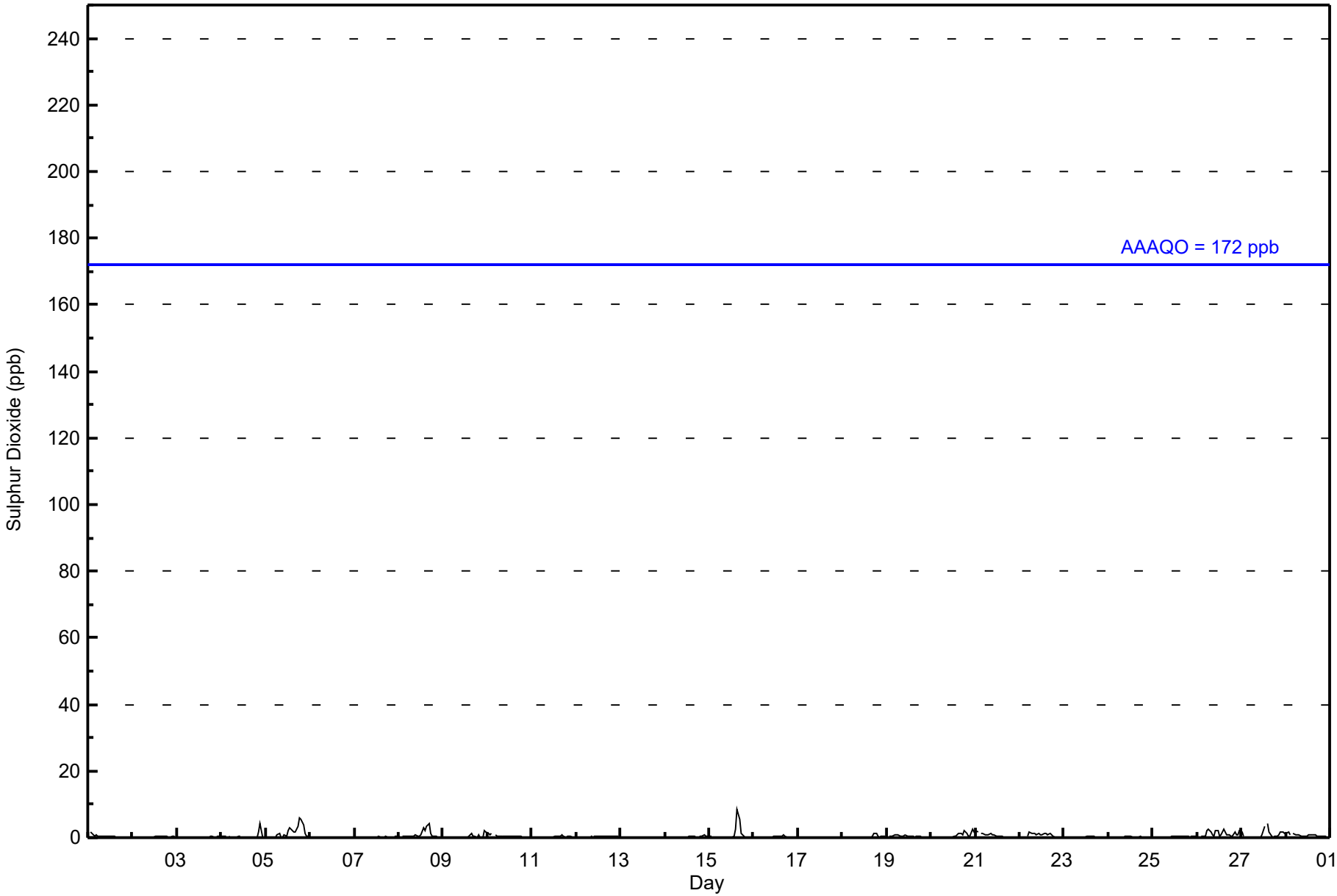
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Athabasca Valley - February 2026



Sulphur Dioxide (SO_2) - ppb
Athabasca Valley - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	639	100.00	100.00
11 - 20	0	0.00	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Athabasca Valley - February 2026

Concentration	Wind Direction																
Ranges (ppb)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	16	10	13	11	31	121	45	22	10	22	33	17	10	13	80	185	639
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	16	10	13	11	31	121	45	22	10	22	33	17	10	13	80	185	639

Total Number of Valid Hours: 639

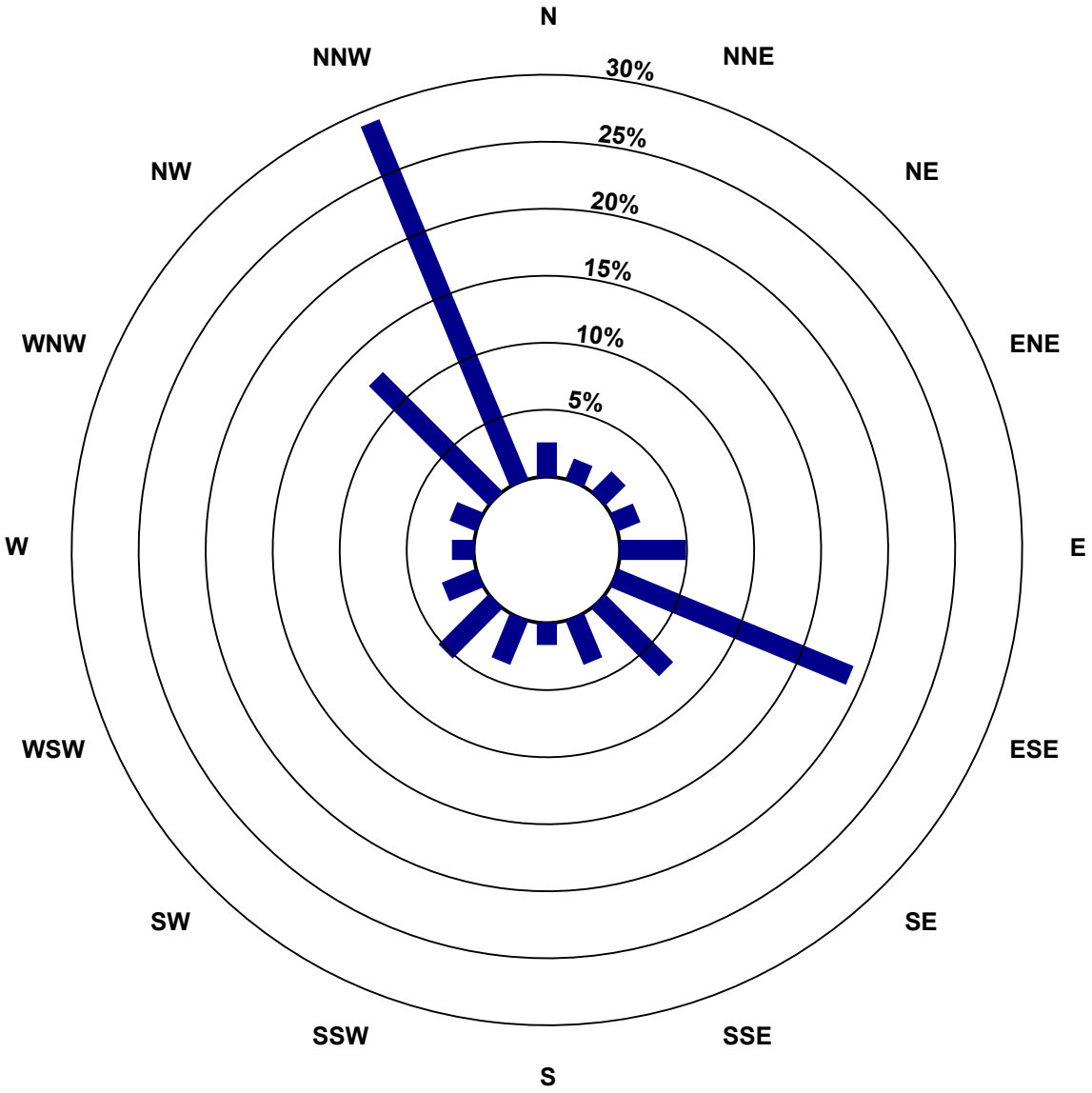
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Athabasca Valley



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

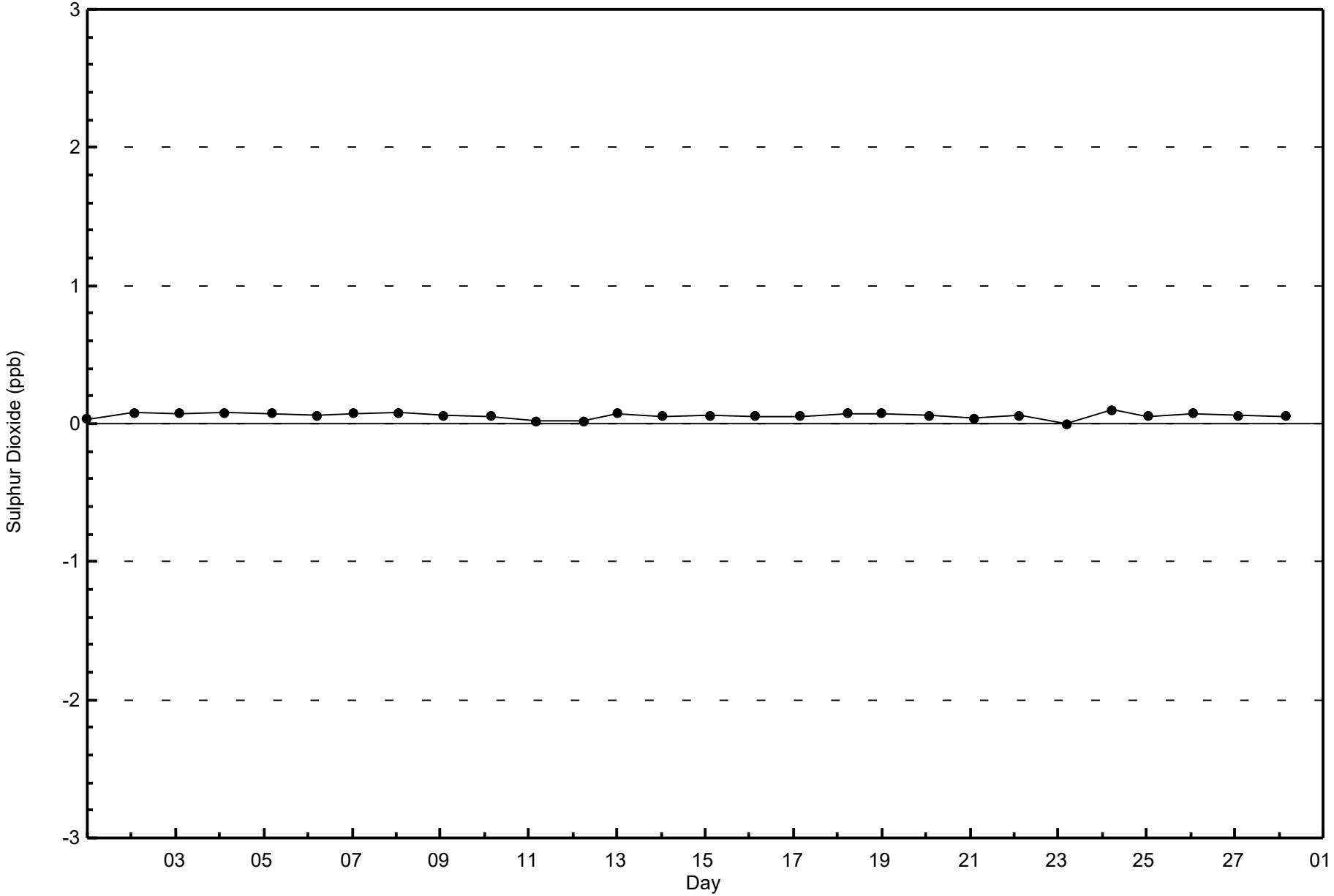
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Athabasca Valley - February 2026

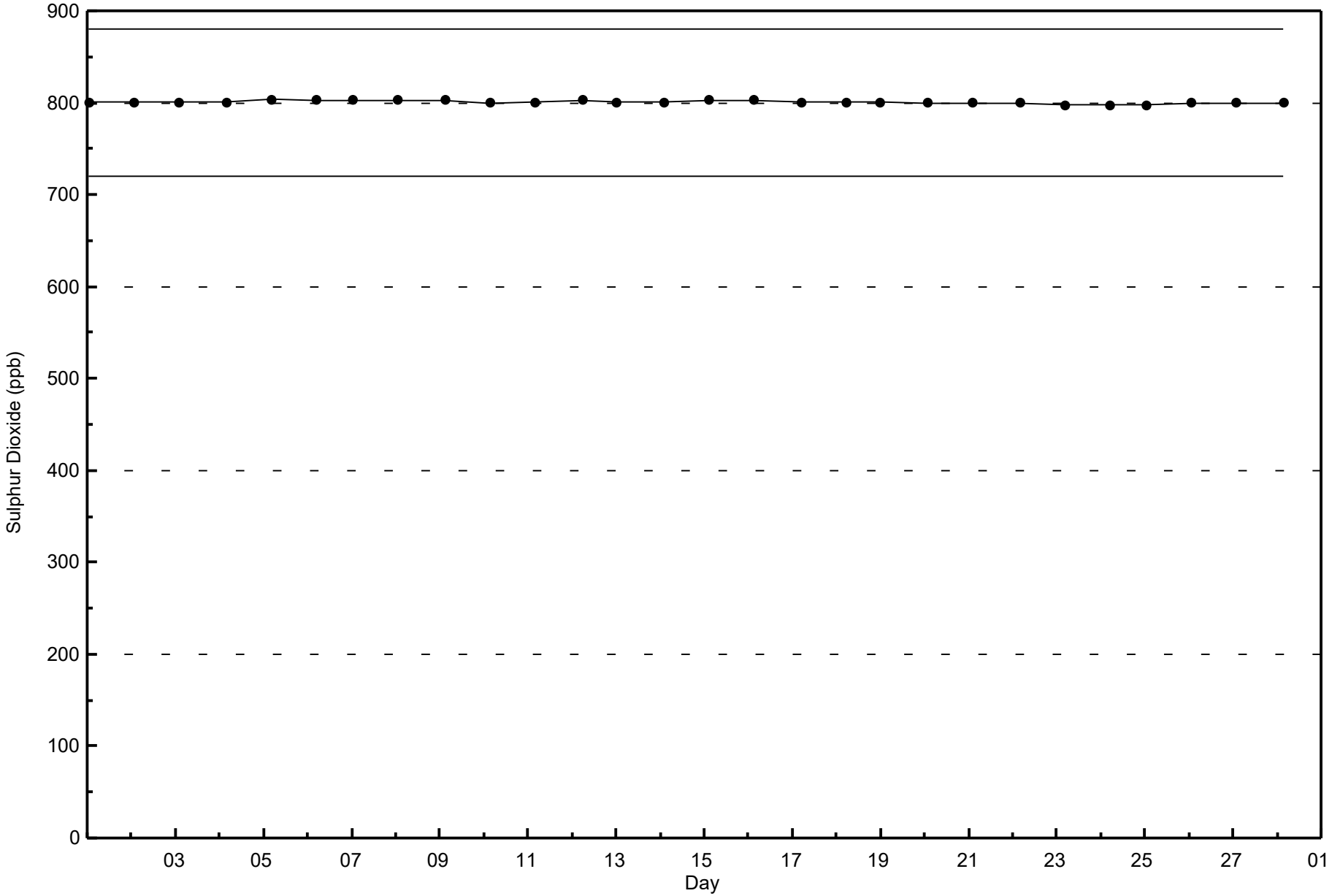


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Athabasca Valley - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Athabasca Valley - February 2026

Number of Exceedences (AAAQG): 30-Min: 0

Maximum Value: 1.6 ppb on Feb 8 07:00

Maximum Daily Average: 0.7 ppb on Feb 8

Minimum Value: 0.1 ppb on Feb 26 19:30

Minimum Daily Average: 0.1 ppb on Feb 13

Maximum Diurnal Average: 0.3 ppb at hour 12

Minimum Diurnal Average: 0.2 ppb at hour 4

Monthly Average: 0.27 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.2 Median = 0.2 Q_3 = 0.3 P_{90} = 0.5 P_{99} = 1.1

Periods in Service:	1344
Periods of Valid Data:	1276
Periods of Invalid Data:	68
Periods of Calibration:	67
Percent Operational Time:	99.9

Period Ending At (MST)

Day	00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.2	Z	0.3	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
	0.2	SP	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
2-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.8	0.4	0.2	0.8
	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.8	0.5	0.4		
3-Feb	0.5	0.5	0.4	Z	0.3	0.4	0.5	0.3	0.3	0.4	0.3	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.8
	0.6	0.4	0.3	SP	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.8	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
4-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.5	0.2	0.2	0.2	0.5
	0.1	0.1	0.2	0.2	SP	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.5	0.3	0.2	0.2		
5-Feb	0.3	0.3	0.3	0.3	0.3	Z	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.3	0.3	0.4
	0.3	0.3	0.3	0.3	0.3	SP	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.2	0.3	0.4		
6-Feb	Z	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.3
	SP	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2		
7-Feb	0.2	Z	0.2	0.1	0.2	0.1	0.2	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.3	0.5
	0.1	SP	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4		
8-Feb	0.5	0.5	Z	0.5	0.5	0.4	0.6	1.5	1.4	0.8	1.1	1.1	1.0	1.2	0.7	0.6	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.7	1.6
	0.5	0.5	SP	0.5	0.4	0.4	1.6	1.4	1.0	1.1	1.1	1.0	1.2	1.0	0.6	0.5	0.4	0.2	0.3	0.3	0.5	0.4	0.4	0.4		
9-Feb	0.4	0.4	0.3	Z	0.5	0.8	0.5	0.3	0.3	0.2	0.3	0.2	0.3	0.4	0.4	0.5	0.5	0.4	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.9
	0.4	0.3	0.4	SP	0.9	0.8	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.4		
10-Feb	0.4	0.4	0.4	0.4	Z	0.3	0.3	0.4	0.3	0.5	0.8	0.8	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.8
	0.4	0.4	0.4	0.3	SP	0.4	0.4	0.4	0.3	0.5	0.8	0.7	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
11-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.3
	0.2	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
12-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.3
	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1		
13-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2
	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1		
14-Feb	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.7	0.8	0.5	1.3	1.2	1.1	1.0	0.4	1.4
	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.8	0.6	0.5	1.4	1.0	1.4	0.9	0.9		
15-Feb	1.6	1.1	0.8	Z	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.7	0.6	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.5	1.6
	1.3	1.1	0.4	SP	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.6	0.7	0.6	0.4	0.4	0.4	0.3	0.2	0.2	0.2		

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Athabasca Valley - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.8	0.7	0.5	0.5	0.4	0.4	0.5	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.9
	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.4	0.9	0.6	0.5	0.4	0.4	0.4	0.4	0.2	0.2	0.3	0.2	0.3	0.2		
17-Feb	0.3	0.3	0.2	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
	0.2	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
18-Feb	Z	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	SP	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
19-Feb	0.2	Z	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	C	C	C	C	C	0.4	0.4	0.2	0.2	0.2	0.2	0.2	--	0.4
	0.2	SP	0.3	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	C	C	C	C	C	C	0.4	0.3	0.1	0.2	0.2	0.2	0.2		
20-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.5	0.7	0.5	0.3	0.6	0.5	0.3	0.9
	0.2	0.2	SP	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.4	0.4	0.7	0.9	0.3	0.3	0.5	0.6		
21-Feb	0.4	0.5	0.4	Z	0.2	0.2	0.3	0.3	0.6	0.6	0.5	0.3	0.5	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.3	0.6
	0.5	0.6	0.3	SP	0.3	0.2	0.2	0.6	0.6	0.5	0.5	0.4	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1		
22-Feb	0.1	0.2	0.2	0.3	Z	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.5	0.6	0.4	0.5	0.3	0.1	0.1	0.1	0.1	0.3	0.6
	0.2	0.2	0.2	0.3	SP	0.5	0.5	0.4	0.2	0.3	0.4	0.4	0.3	0.5	0.5	0.6	0.6	0.4	0.5	0.2	0.1	0.1	0.1	0.1		
23-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
	0.1	0.1	0.1	0.1	0.1	SP	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
24-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2		
25-Feb	0.2	Z	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.8	0.4	0.4	0.5	0.2	0.3	0.9
	0.2	SP	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.6	0.4	0.9	0.3	0.2		
26-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.3	0.4	0.5	0.4	0.3	0.5	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.5
	0.2	0.2	SP	0.2	0.2	0.3	0.3	0.4	0.5	0.4	0.5	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1		
27-Feb	0.1	0.1	0.1	Z	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.1	0.2	M	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3
	0.1	0.1	0.1	SP	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3		
28-Feb	0.3	0.3	0.2	0.3	Z	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.4
	0.3	0.3	0.3	0.2	SP	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.4	0.3	0.3	0.3	0.2	0.2		
	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	Diurnal Average	
	1.6	1.1	0.8	0.5	0.9	0.8	1.6	1.5	1.4	1.1	1.1	1.1	1.2	1.2	0.7	0.7	0.8	0.7	0.8	1.4	1.3	1.4	1.1	1.0	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Athabasca Valley - February 2026

Maximum Value: 1.4 ppb on Feb 15 01:00

Maximum Daily Average: 0.7 ppb on Feb 8

Minimum Value: 0.1 ppb on Feb 26 17:00

Minimum Daily Average: 0.1 ppb on Feb 13

Maximum Diurnal Average: 0.3 ppb at hour 12

Minimum Diurnal Average: 0.2 ppb at hour 4

Monthly Average: 0.27 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.2 Median = 0.2 Q_3 = 0.3 P_{90} = 0.4 P_{99} = 1.1

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	Z	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
2-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.6	0.4	0.2	0.6
3-Feb	0.6	0.5	0.3	Z	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.6
4-Feb	0.1	0.1	0.2	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.2	0.2	0.2	0.4
5-Feb	0.3	0.3	0.3	0.3	0.3	Z	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.3	0.3	0.4
6-Feb	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2
7-Feb	0.2	Z	0.2	0.2	0.2	0.1	0.3	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.3	0.5
8-Feb	0.5	0.5	Z	0.5	0.4	0.4	1.1	1.4	1.2	0.9	1.1	1.1	1.1	1.1	0.6	0.6	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.7	1.4
9-Feb	0.4	0.4	0.4	Z	0.7	0.8	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.8
10-Feb	0.4	0.4	0.4	0.3	Z	0.4	0.4	0.4	0.3	0.5	0.8	0.8	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.8
11-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3
12-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.3
13-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2
14-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.5	0.7	0.6	1.0	1.2	1.3	1.0	0.9	0.4	1.3
15-Feb	1.4	1.1	0.6	Z	0.3	0.3	0.4	0.5	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.7	0.6	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.5	1.4
16-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.3	0.9	0.7	0.5	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.9
17-Feb	0.3	0.3	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
18-Feb	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
19-Feb	0.2	Z	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	C	C	C	C	C	C	0.4	0.3	0.2	0.2	0.2	0.2	0.2	--	0.4
20-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.6	0.8	0.4	0.3	0.6	0.5	0.3	0.8
21-Feb	0.5	0.5	0.4	Z	0.2	0.2	0.3	0.4	0.6	0.5	0.5	0.4	0.4	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.6
22-Feb	0.2	0.2	0.2	0.3	Z	0.5	0.5	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.5	0.6	0.4	0.5	0.2	0.1	0.1	0.1	0.1	0.3	0.6
23-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
24-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
25-Feb	0.2	Z	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.7	0.4	0.6	0.4	0.2	0.3	0.7
26-Feb	0.2	0.2	Z	0.2	0.2	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.5
27-Feb	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	M	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3
28-Feb	0.3	0.3	0.3	0.3	Z	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3
	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	Diurnal Average	
	1.4	1.1	0.6	0.5	0.7	0.8	1.1	1.4	1.2	0.9	1.1	1.1	1.1	1.1	0.6	0.7	0.6	0.7	0.6	1.0	1.2	1.3	1.0	0.9	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

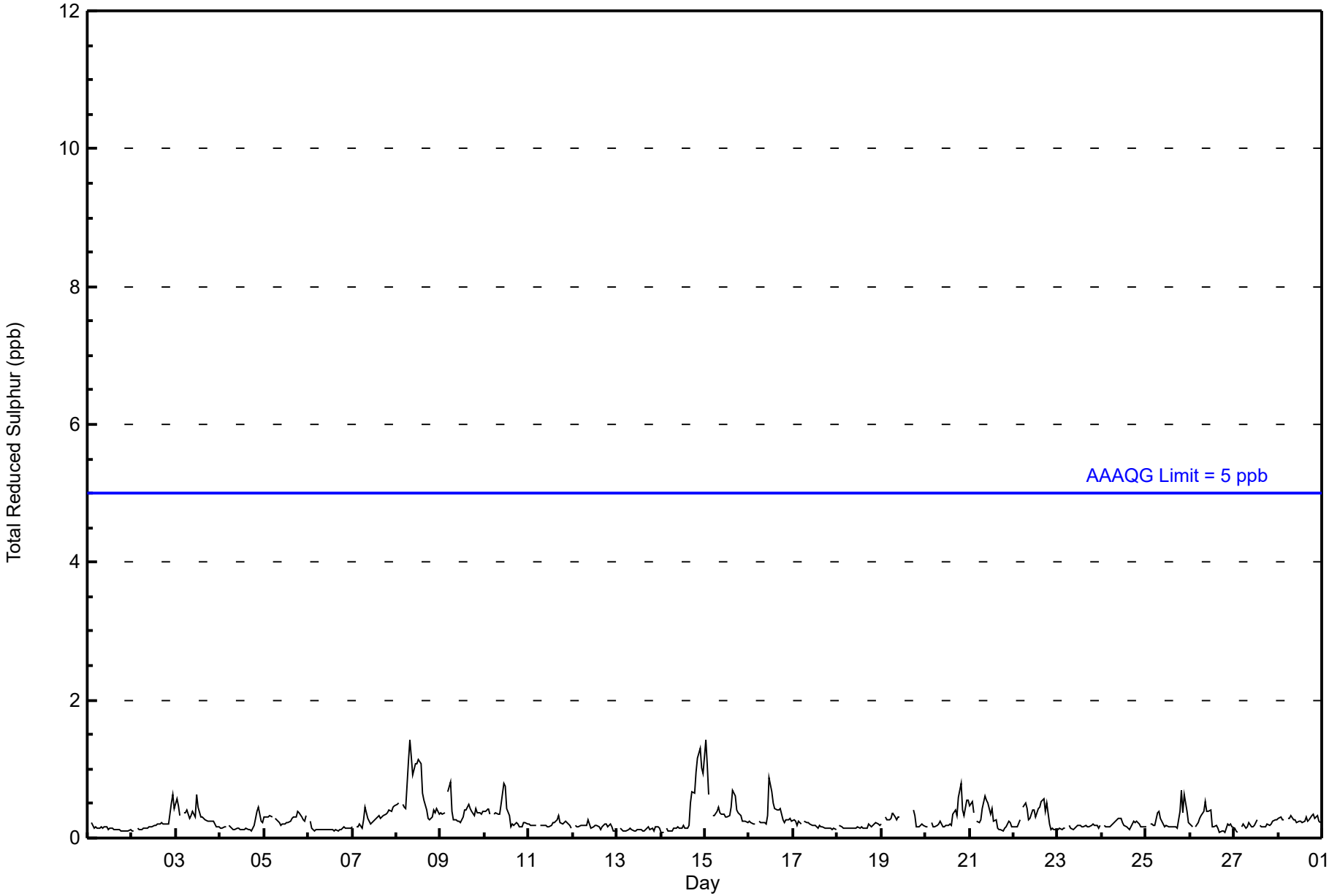
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Athabasca Valley - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	637	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Athabasca Valley - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	16	11	14	9	28	121	44	20	13	22	34	18	10	13	78	186	637
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	16	11	14	9	28	121	44	20	13	22	34	18	10	13	78	186	637

Total Number of Valid Hours: 637

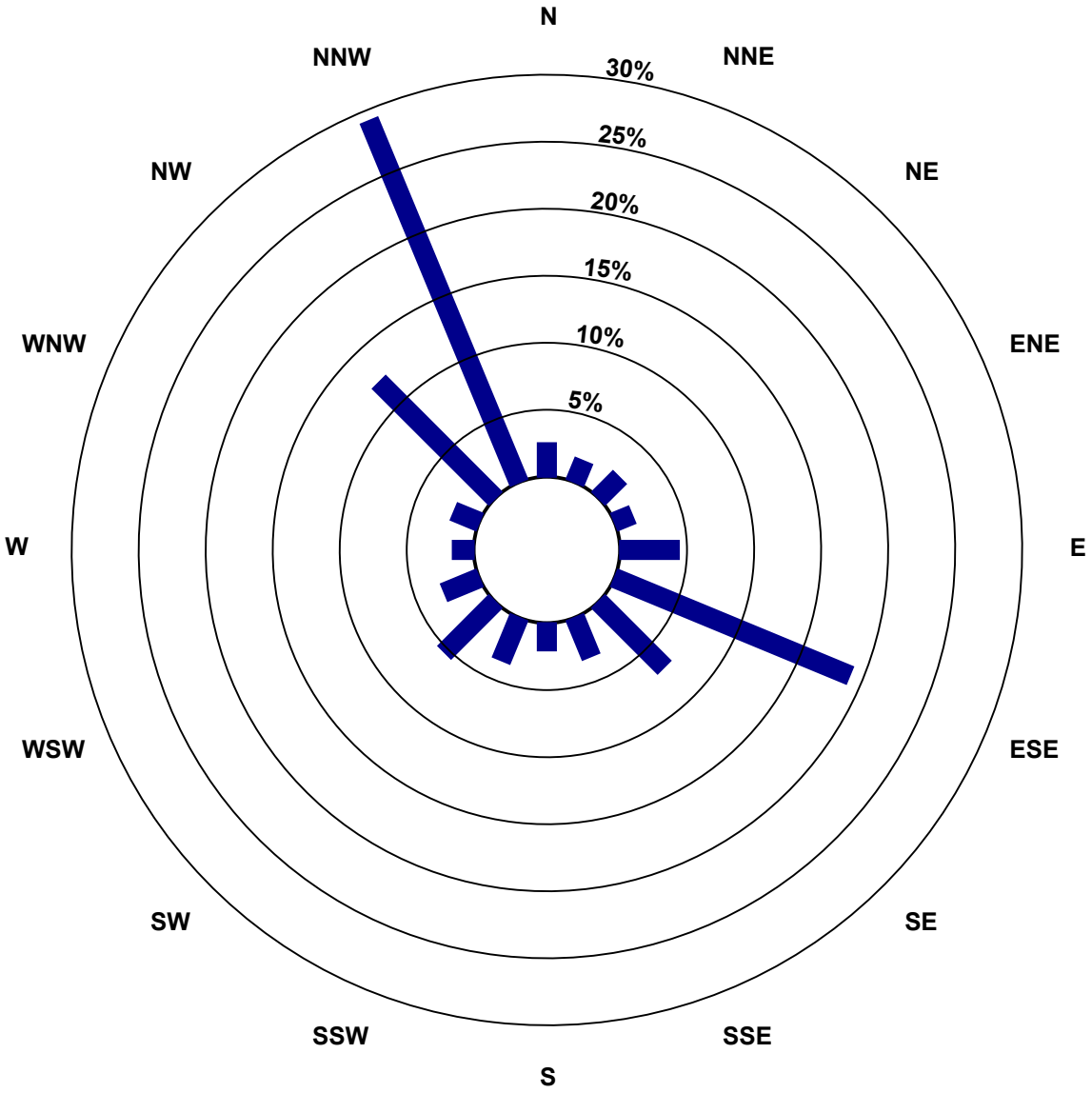
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Athabasca Valley



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

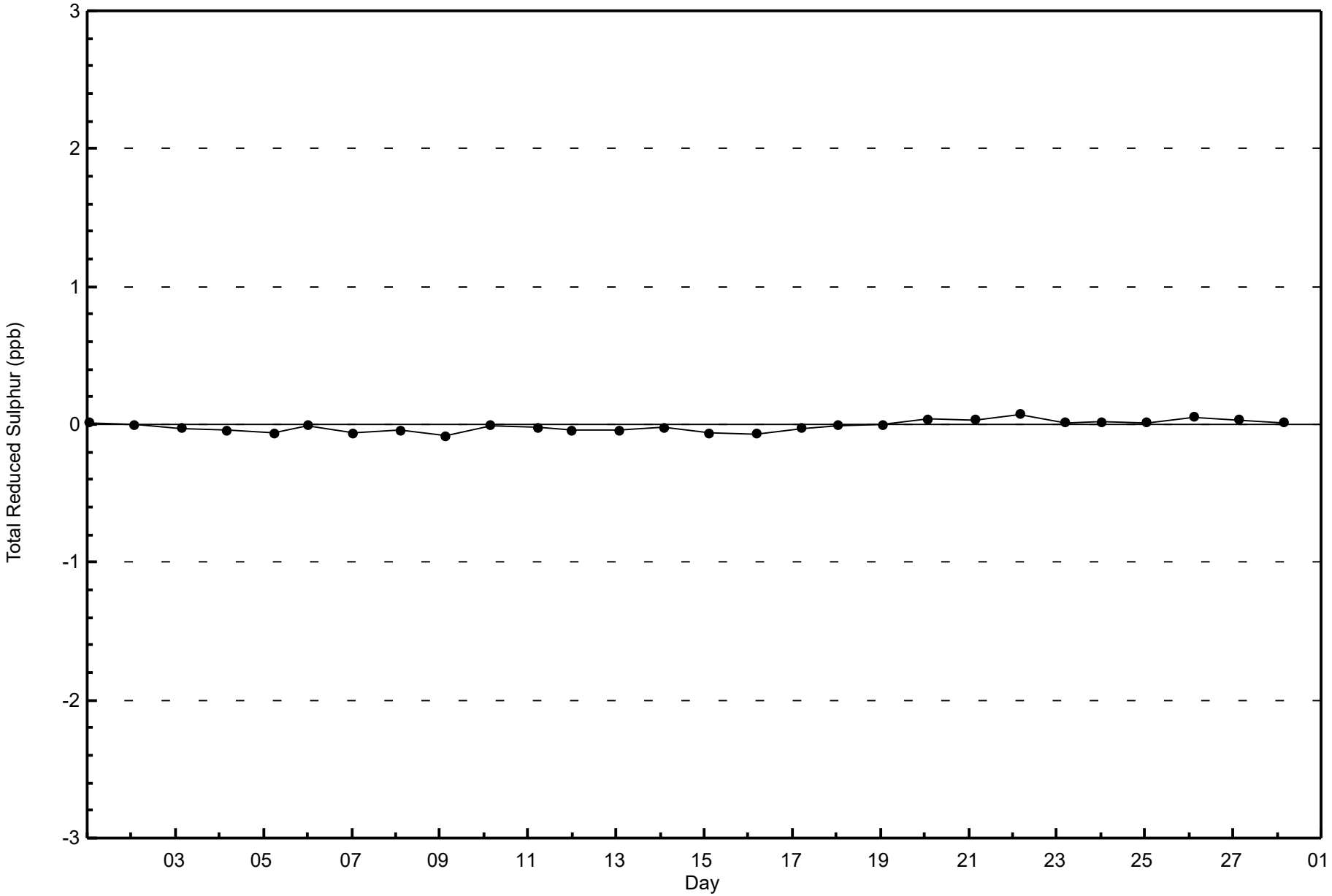
Total Number of Valid Hours: 637

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Athabasca Valley - February 2026

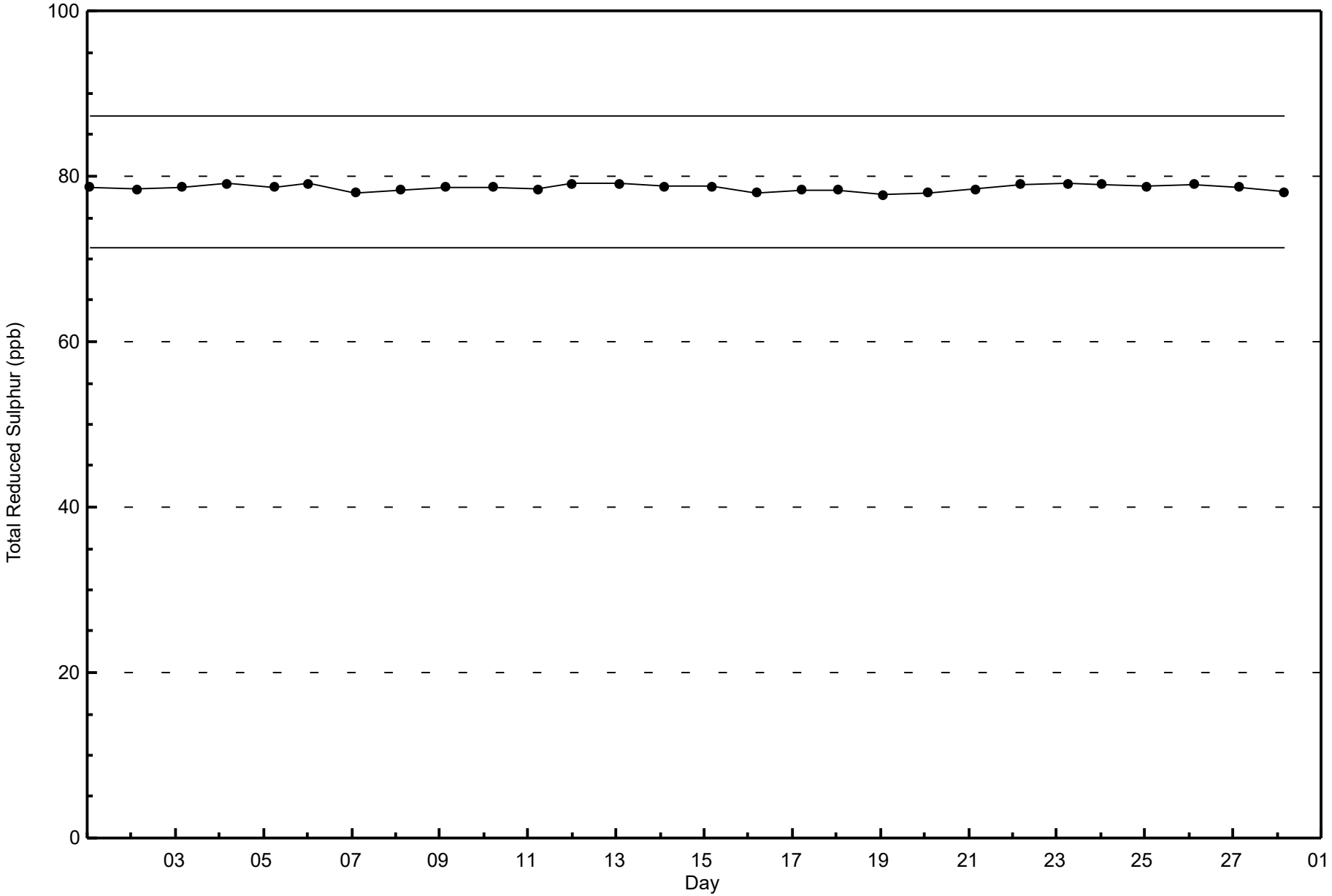


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Athabasca Valley - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Athabasca Valley - February 2026

Maximum Value: 2.8 ppm on Feb 15 01:00

Maximum Daily Average: 2.3 ppm on Feb 8

Minimum Value: 2.0 ppm on Feb 4 18:00

Minimum Daily Average: 2.0 ppm on Feb 13

Maximum Diurnal Average: 2.2 ppm at hour 1

Minimum Diurnal Average: 2.1 ppm at hour 15

Monthly Average: 2.12 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.1 Median = 2.1 Q_3 = 2.2 P_{90} = 2.2 P_{99} = 2.6

Hours in Service:	672
Hours of Data:	636
Hours of Missing Data:	36
Hours of Calibration:	32
Percent Operational Time:	99.4

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1
2-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.4	2.1	2.4
3-Feb	2.4	2.3	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.4
4-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.0	2.0	2.0	2.0	C	C	C	C	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.1
5-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
6-Feb	2.1	2.1	2.1	2.1	2.0	Z	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.2
7-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.2
8-Feb	2.2	Z	2.1	2.2	2.2	2.2	2.4	2.5	2.7	2.7	2.7	2.6	2.5	2.5	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.3	2.7
9-Feb	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
10-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.3
11-Feb	2.2	2.3	2.3	2.3	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.5	2.6	2.3	2.2	2.1	2.1	2.2	2.2	2.5	2.3	2.6
12-Feb	2.3	2.2	2.2	2.2	2.3	Z	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.4	2.2	2.0	2.0	2.2	2.4
13-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1
14-Feb	2.1	Z	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.1	2.2	2.2	2.3	2.4	2.8	2.6	2.5	2.2	2.8
15-Feb	2.8	2.7	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8
16-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.2	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
17-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1
18-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1
19-Feb	Z	2.1	2.1	2.2	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.1	2.3
20-Feb	2.3	Z	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.3
21-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2
22-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.3	2.1	2.0	2.0	2.0	2.0	2.1	2.3
23-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
24-Feb	2.2	2.1	2.1	2.2	2.2	Z	2.2	2.3	2.3	2.2	M	2.2	2.1	2.1	2.0	2.0	2.0	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.3
25-Feb	Z	2.2	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	M	M	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.2	2.3	2.3	2.2	2.2	2.3
26-Feb	2.1	Z	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
27-Feb	2.0	2.0	Z	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	M	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1
28-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.2	2.2	2.1	2.3
	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	Diurnal Average	
	2.8	2.7	2.3	2.3	2.3	2.2	2.4	2.5	2.7	2.7	2.7	2.6	2.5	2.5	2.2	2.5	2.6	2.3	2.3	2.3	2.4	2.8	2.6	2.5	Diurnal Maximum	

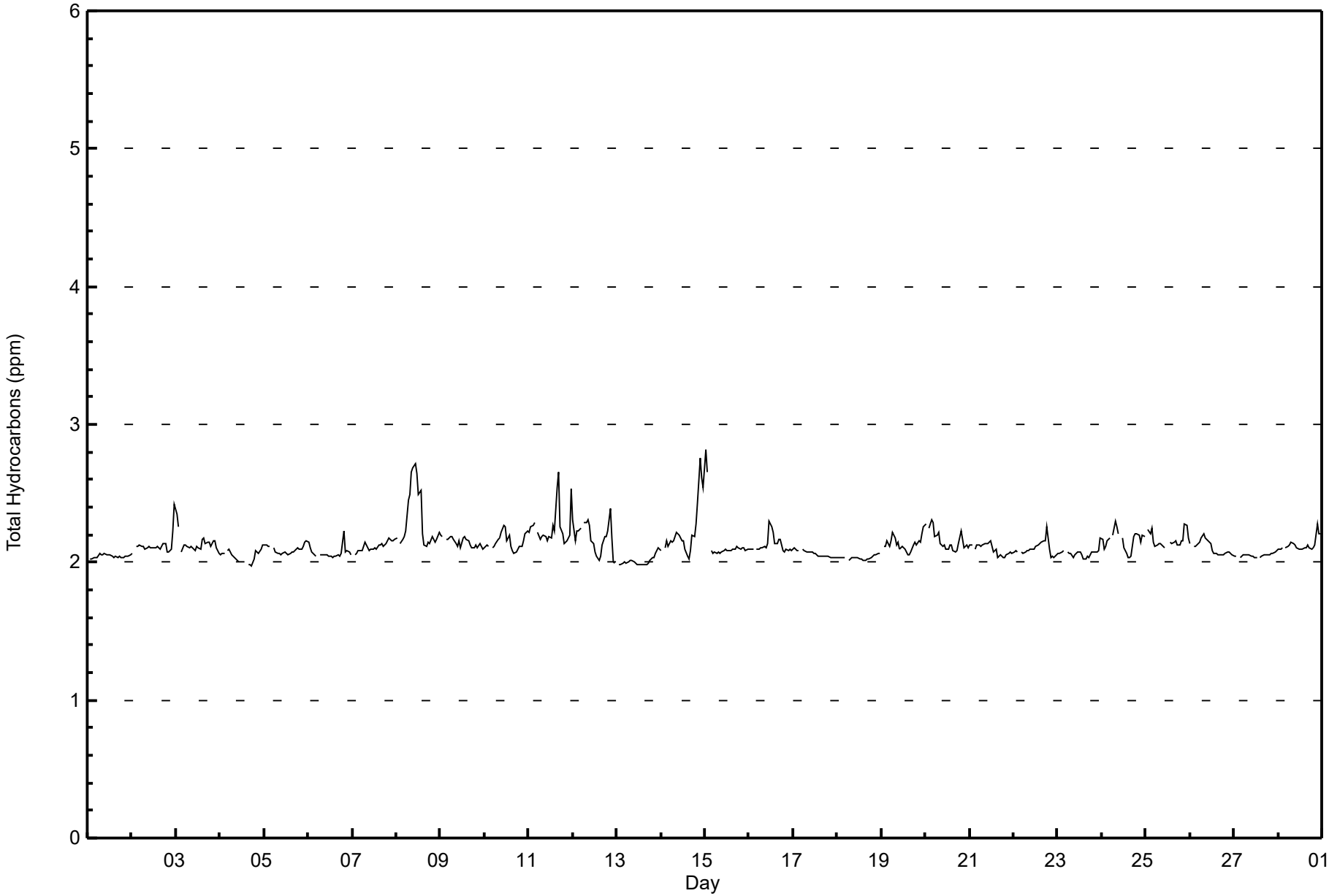
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Athabasca Valley - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	119	18.71	18.71
2.1 - 3.0	517	81.29	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 636

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Athabasca Valley - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	1	2	1	2	11	16	3	1	2	5	19	5	2	5	14	30	119
2.1 - 3.0	15	8	12	9	20	102	42	21	8	17	14	12	8	8	66	155	517
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	16	10	13	11	31	118	45	22	10	22	33	17	10	13	80	185	636

Total Number of Valid Hours: 636

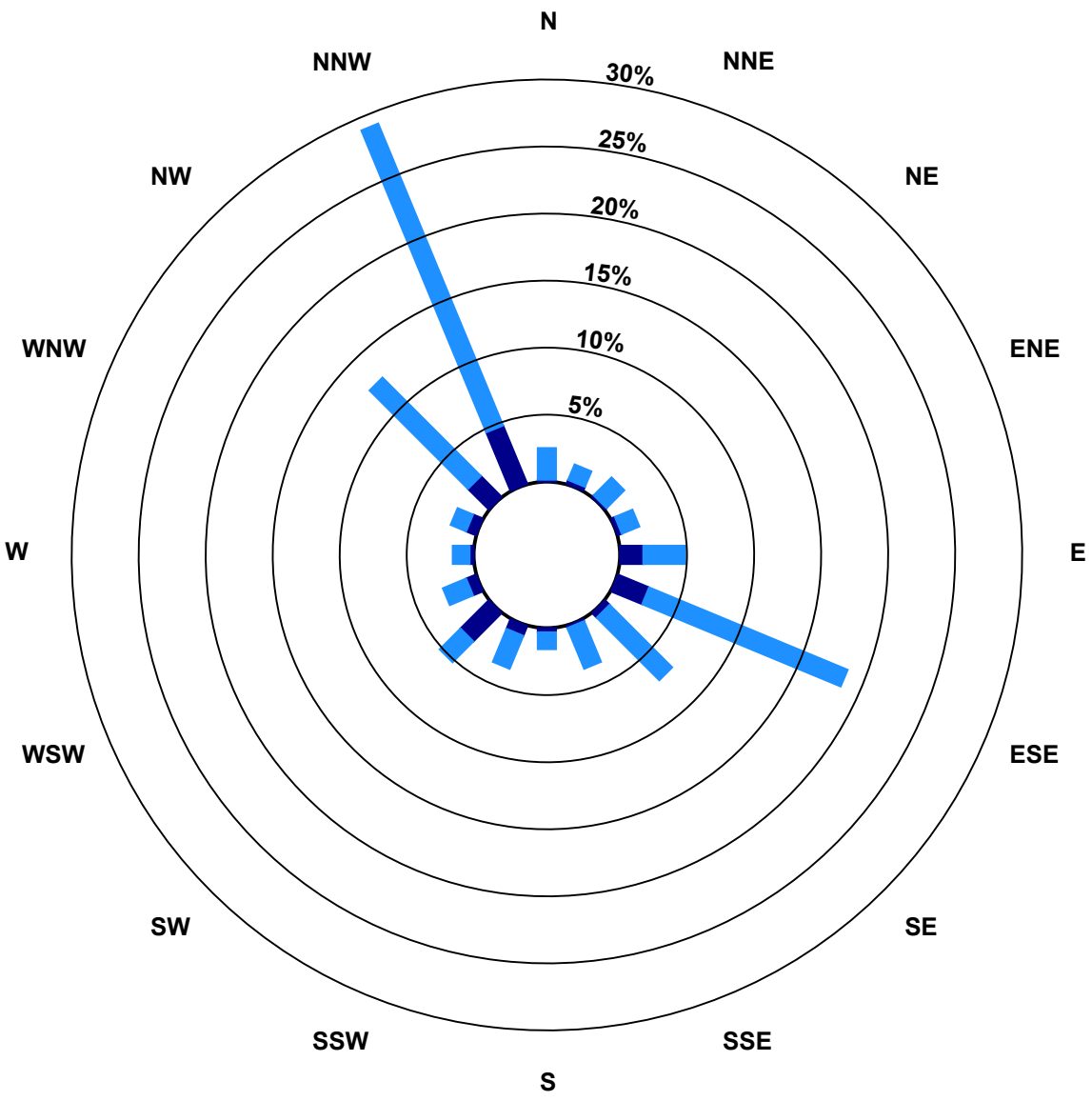
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Athabasca Valley



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

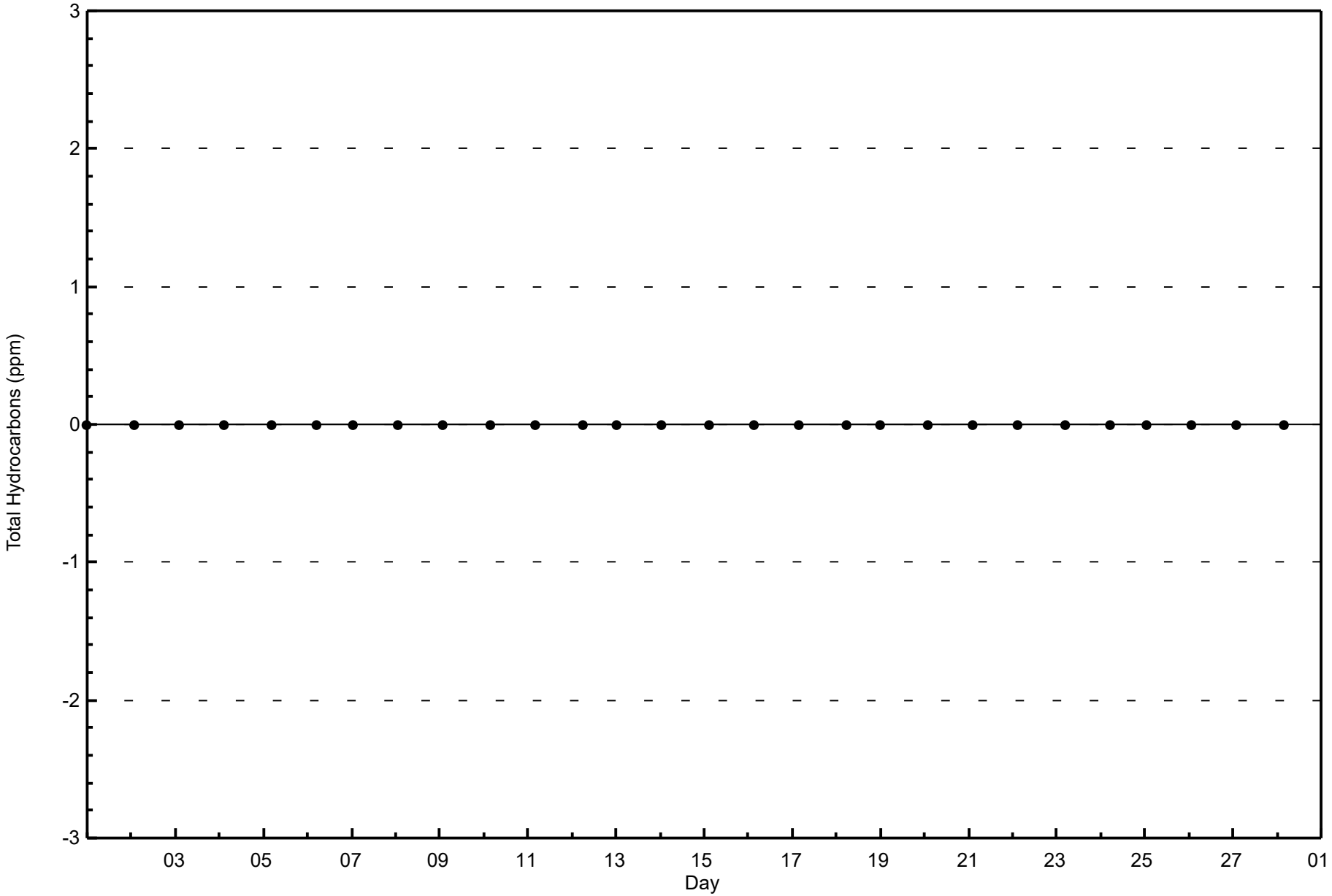
Total Number of Valid Hours: 636

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Athabasca Valley - February 2026

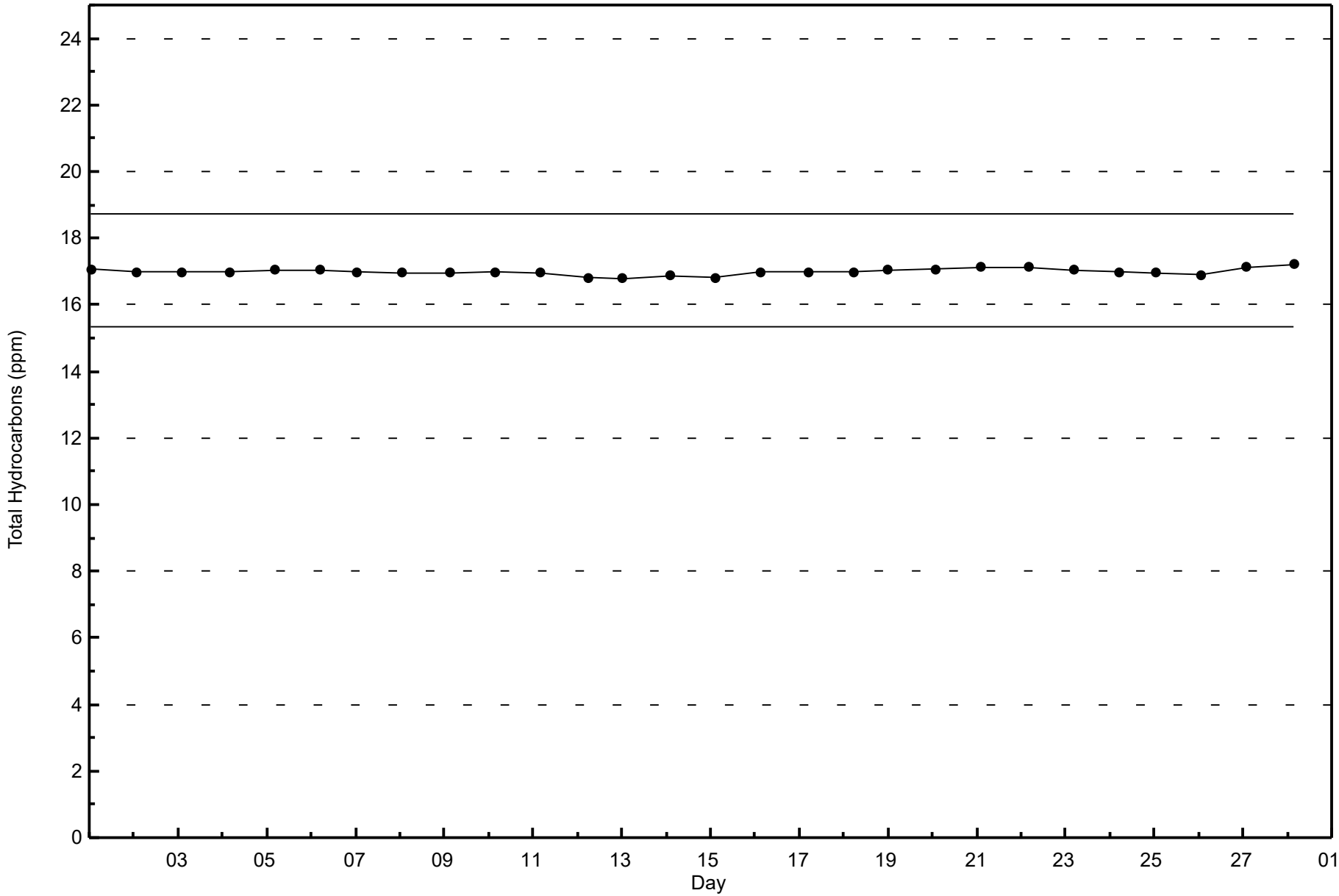


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Athabasca Valley - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Athabasca Valley - February 2026

Maximum Value: 0.372 ppm on Feb 12 00:00

Maximum Daily Average: 0.052 ppm on Feb 11

Minimum Value: 0.000 ppm on Feb 1 02:00

Minimum Daily Average: 0.000 ppm on Feb 1

Maximum Diurnal Average: 0.016 ppm at hour 24

Minimum Diurnal Average: 0.000 ppm at hour 2

Monthly Average: 0.005 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.0 P_{99} = 0.2

Hours in Service:	672
Hours of Data:	636
Hours of Missing Data:	36
Hours of Calibration:	32
Percent Operational Time:	99.4

Day	Hourly Period Ending At (MST) 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Average	Daily Maximum
1-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.041
4-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	C	C	C	C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.142	0.000	0.000	0.000	0.000	0.006	0.142
7-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.039	0.081	0.148	0.156	0.187	0.169	0.063	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.187
9-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.069	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.069
11-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.103	0.039	0.354	0.250	0.051	0.005	0.000	0.000	0.000	0.000	0.372	0.052	0.372
12-Feb	0.184	0.000	0.000	0.000	0.000	Z	0.008	0.000	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.006	0.005	0.007	0.015	0.002	0.000	0.000	0.011	0.184
13-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.002
14-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.114	0.087	0.073	0.012	0.114
15-Feb	0.061	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.061
16-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.001	0.010
21-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.042	0.015	0.000	0.000	0.000	0.000	0.002	0.042
23-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
24-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	M	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	M	M	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
26-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	M	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.011	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.006	0.006	0.007	0.007	0.003	0.009	0.005	0.014	0.009	0.002	0.002	0.006	0.001	0.004	0.003	0.016	Diurnal Average	
	0.184	0.000	0.000	0.000	0.000	0.000	0.039	0.081	0.148	0.156	0.187	0.169	0.063	0.103	0.049	0.354	0.250	0.051	0.042	0.142	0.015	0.114	0.087	0.372	Diurnal Maximum	

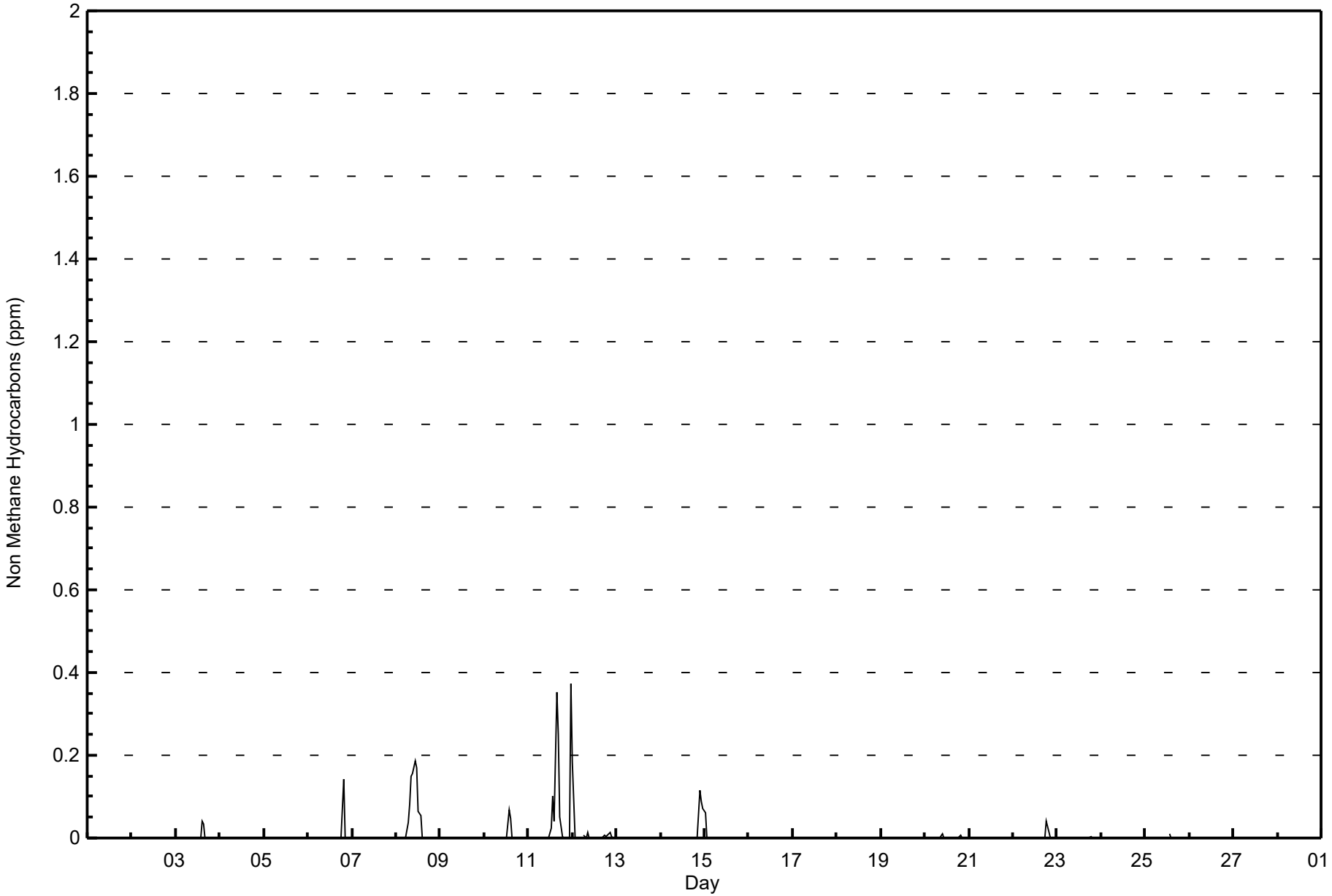
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Athabasca Valley - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Athabasca Valley - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	601	94.50	94.50
0.006 - 0.05	18	2.83	97.33
0.06 - 0.1	10	1.57	98.90
> 0.1	7	1.10	100.00

Total Number of Valid Hours: 636

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Athabasca Valley - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	15	10	13	10	29	106	39	21	10	20	33	17	10	13	76	179	601
0.006 - 0.05	1	0	0	0	1	9	4	0	0	0	0	0	0	0	1	2	18
0.06 - 0.1	0	0	0	0	1	1	1	1	0	2	0	0	0	0	3	1	10
> 0.1	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	3	7
Totals	16	10	13	11	31	118	45	22	10	22	33	17	10	13	80	185	636

Total Number of Valid Hours: 636

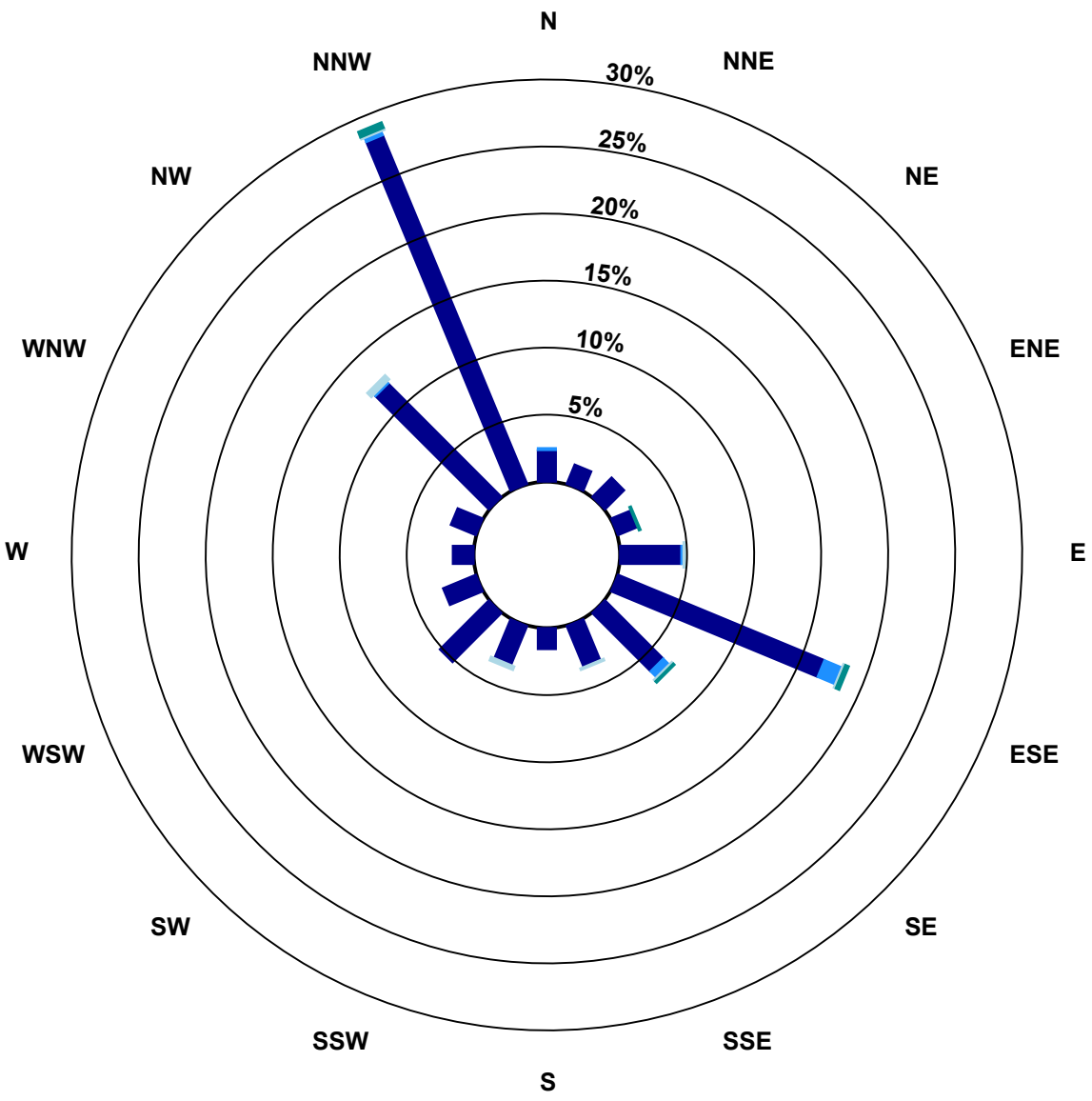
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Athabasca Valley



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

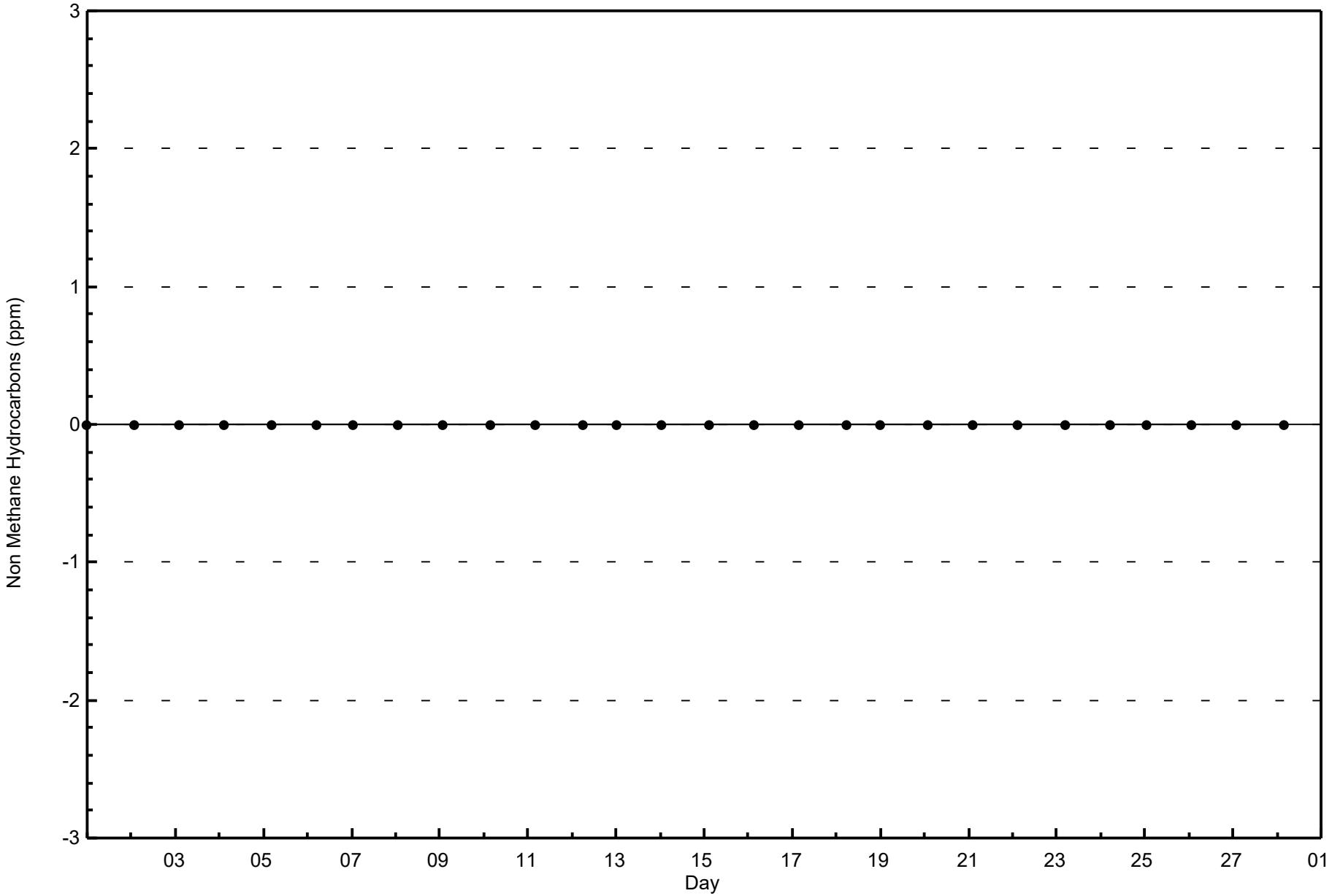
Total Number of Valid Hours: 636

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Athabasca Valley - February 2026

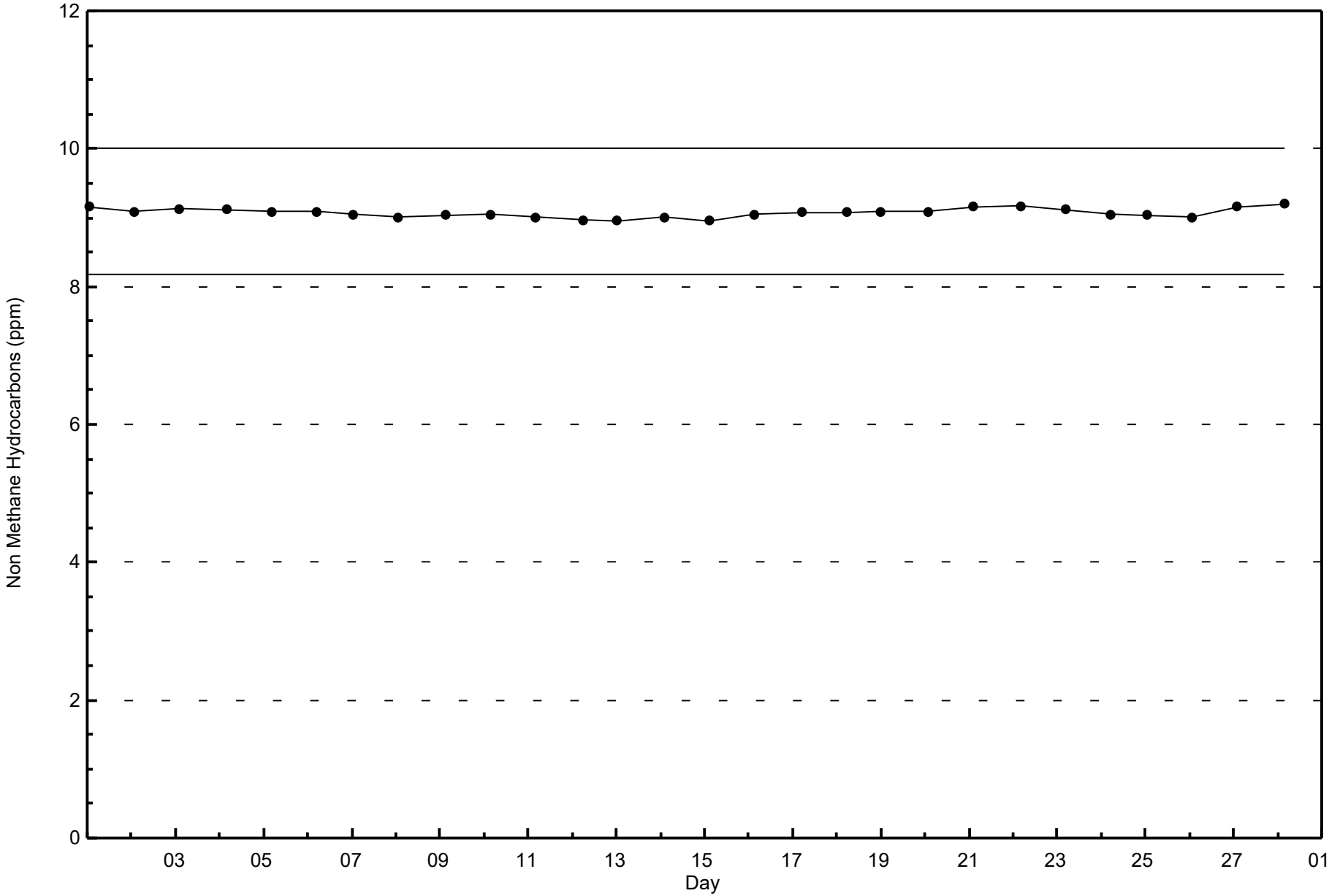


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Athabasca Valley - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Athabasca Valley - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 2.8 ppm on Feb 15 01:00

Maximum Daily Average: 2.3 ppm on Feb 8

Minimum Value: 2.0 ppm on Feb 4 18:00

Minimum Daily Average: 2.0 ppm on Feb 13

Maximum Diurnal Average: 2.2 ppm at hour 1

Minimum Diurnal Average: 2.1 ppm at hour 16

Monthly Average: 2.12 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.1 Median = 2.1 Q_3 = 2.2 P_{90} = 2.2 P_{99} = 2.5

Hours in Service:	672
Hours of Data:	636
Hours of Missing Data:	36
Hours of Calibration:	32
Percent Operational Time:	99.4

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1
2-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.4	2.1	2.4
3-Feb	2.4	2.3	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.4
4-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.0	2.0	2.0	2.0	C	C	C	C	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.1
5-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
6-Feb	2.1	2.1	2.1	2.1	2.0	Z	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
7-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.2
8-Feb	2.2	Z	2.1	2.2	2.2	2.2	2.4	2.4	2.5	2.5	2.5	2.5	2.4	2.5	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.3	2.5
9-Feb	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
10-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.3
11-Feb	2.2	2.3	2.3	2.3	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.4
12-Feb	2.1	2.2	2.2	2.2	2.3	Z	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.4	2.2	2.0	2.0	2.2	2.4
13-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1
14-Feb	2.1	Z	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.1	2.2	2.2	2.3	2.4	2.6	2.5	2.5	2.2	2.6
15-Feb	2.8	2.7	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8
16-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.2	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
17-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1
18-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1
19-Feb	Z	2.1	2.1	2.2	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.1	2.3
20-Feb	2.3	Z	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.3
21-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2
22-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.1	2.2
23-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
24-Feb	2.2	2.1	2.1	2.2	2.2	Z	2.2	2.3	2.3	2.2	M	2.2	2.1	2.1	2.0	2.0	2.0	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.3
25-Feb	Z	2.2	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	M	M	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.2	2.3	2.3	2.2	2.2	2.3
26-Feb	2.1	Z	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
27-Feb	2.0	2.0	Z	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	M	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1
28-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.2	2.2	2.1	2.3
	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	Diurnal Average	
	2.8	2.7	2.3	2.3	2.3	2.2	2.4	2.4	2.5	2.5	2.5	2.5	2.4	2.5	2.2	2.2	2.4	2.2	2.2	2.3	2.4	2.6	2.5	2.5	Diurnal Maximum	

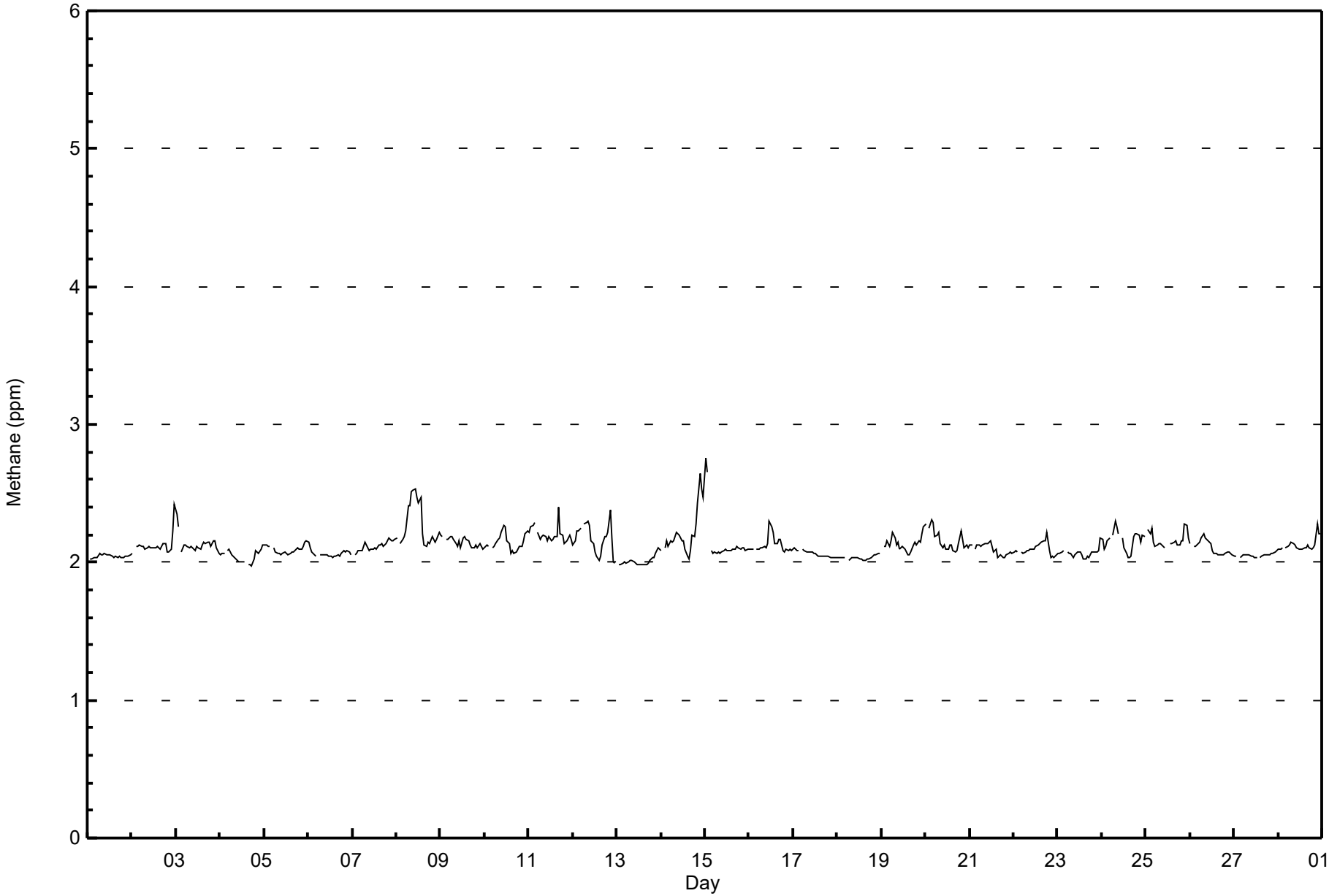
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Athabasca Valley - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	119	18.71	18.71
2.1 - 3.0	517	81.29	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 636

Total Number of Hours: 672

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	1	2	1	2	11	16	3	1	2	5	19	5	2	5	14	30	119
2.1 - 3.0	15	8	12	9	20	102	42	21	8	17	14	12	8	8	66	155	517
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	16	10	13	11	31	118	45	22	10	22	33	17	10	13	80	185	636

Total Number of Valid Hours: 636

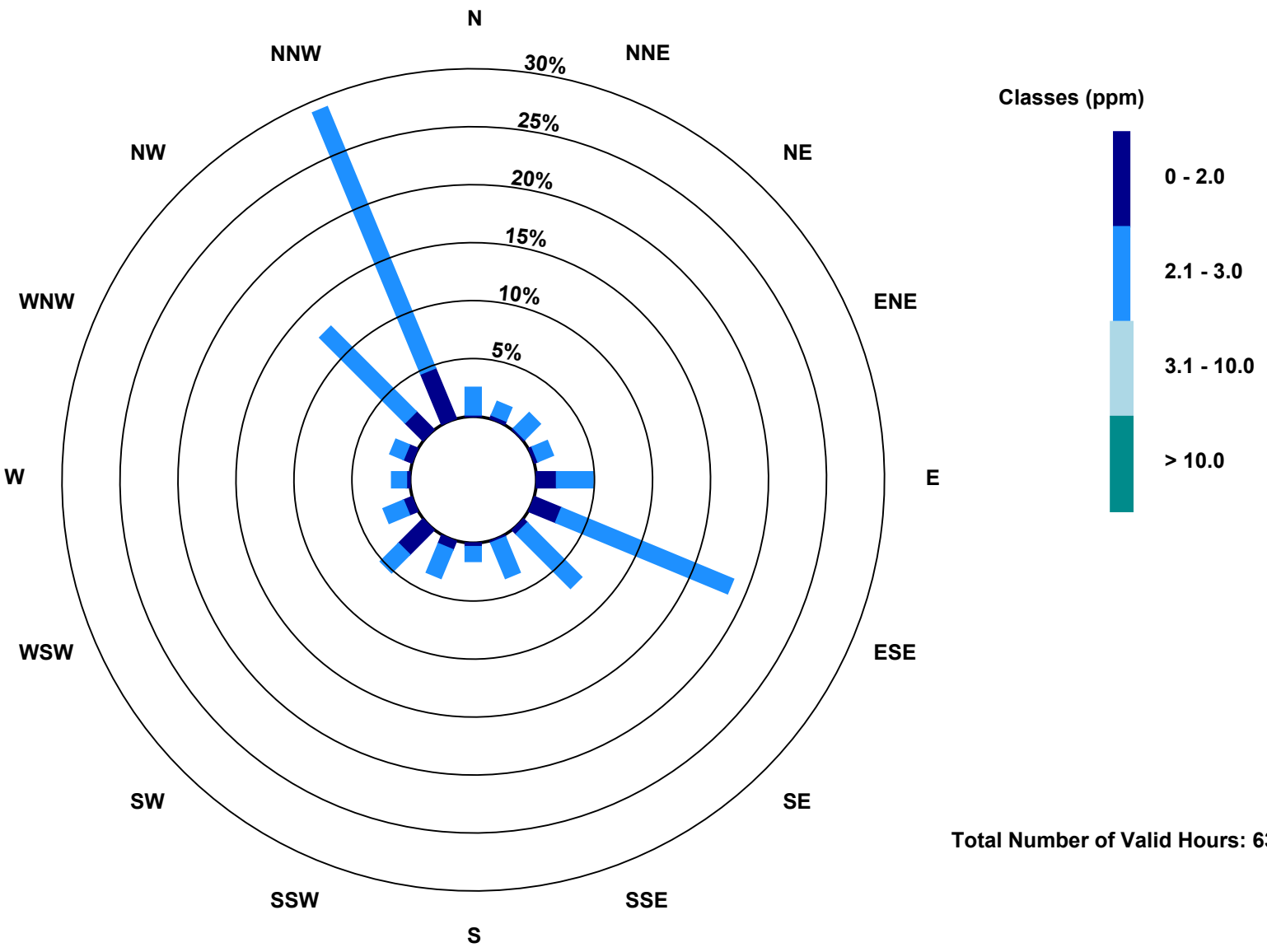
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Athabasca Valley



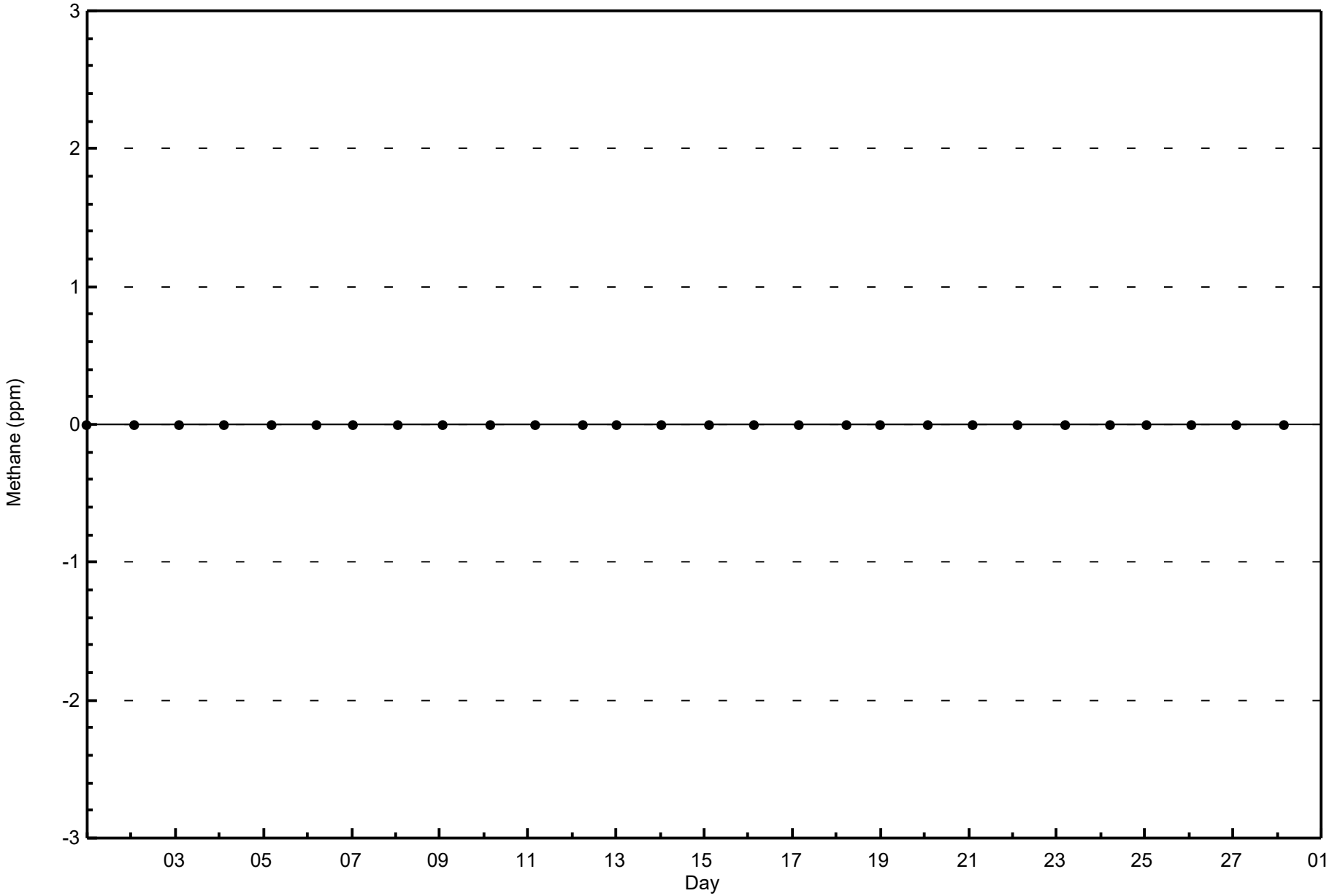
Total Number of Valid Hours: 636

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Athabasca Valley - February 2026

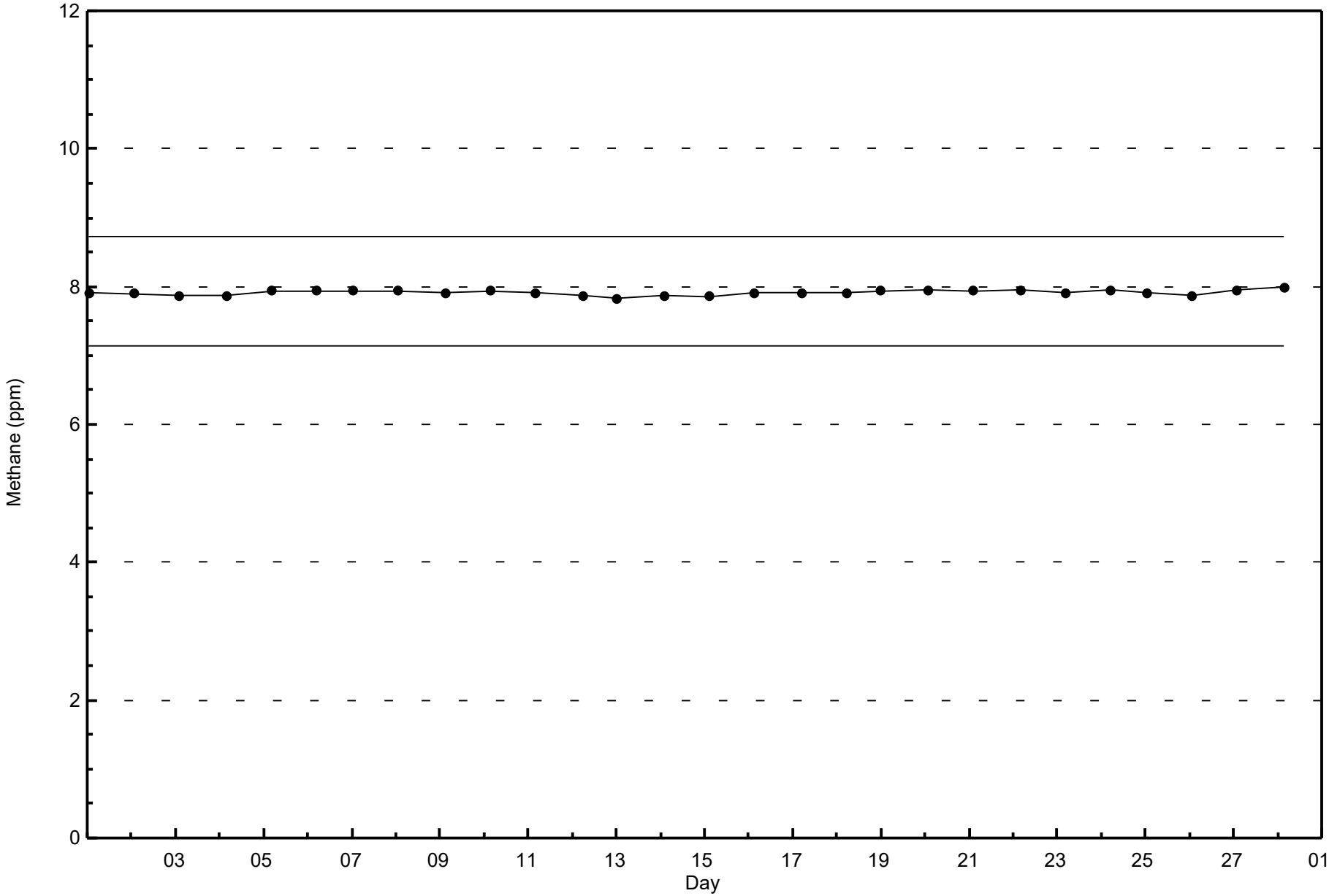


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Athabasca Valley - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ozone (O_3) - ppb

Athabasca Valley - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 45.2 ppb on Feb 13 02:00 Maximum Daily Average: 34.2 ppb on Feb 13

Minimum Value: 0.7 ppb on Feb 18 23:00 Minimum Daily Average: 3.1 ppb on Feb 18
Maximum Diurnal Average: 23.5 ppb at hour 15 Minimum Diurnal Average: 14.1 ppb at hour 19
Monthly Average: 18.18 ppb Percentiles: P_1 = 0.9 P_{10} = 4.9 Q_1 = 11.0 Median = 18.7 Q_3 = 24.8 P_{90} = 30.0 P_{99} = 43.6

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	32.7	34.6	Z	33.9	32.8	32.6	30.4	31.0	31.0	31.2	31.8	32.8	32.3	32.4	32.7	31.2	31.5	31.8	32.4	31.9	31.4	31.3	31.2	29.1	31.9	34.6
2-Feb	29.4	30.0	28.6	Z	28.1	27.0	26.3	26.8	25.1	25.2	24.0	24.3	22.5	23.1	17.9	16.7	9.5	10.7	11.6	18.8	15.8	6.4	1.3	2.2	19.6	30.0
3-Feb	5.4	10.2	15.4	22.4	Z	21.2	18.4	20.8	19.9	16.4	21.8	20.0	21.1	20.1	14.6	14.2	12.7	14.3	14.5	16.7	16.1	14.8	18.8	21.5	17.0	22.4
4-Feb	22.0	21.2	20.9	20.8	18.0	Z	25.9	28.6	26.6	29.3	28.3	29.7	30.2	30.5	31.6	31.8	32.9	34.0	29.3	23.4	24.6	23.7	20.9	20.7	26.3	34.0
5-Feb	Z	23.1	23.3	24.0	24.7	25.2	27.7	30.1	31.7	31.3	31.3	30.6	31.3	30.9	29.1	27.8	25.5	24.5	19.2	20.1	20.5	18.6	17.5	15.5	25.4	31.7
6-Feb	17.4	Z	27.7	30.1	29.9	28.5	27.9	26.9	26.5	26.6	26.9	26.8	26.5	26.6	25.9	26.8	25.1	26.0	22.2	18.7	22.7	22.5	18.6	19.3	25.0	30.1
7-Feb	16.9	20.5	Z	20.4	18.9	18.0	13.9	17.7	23.5	27.2	28.3	27.3	27.1	27.7	25.6	23.4	22.4	22.8	18.3	17.6	18.6	19.8	19.5	19.0	21.5	28.3
8-Feb	18.1	17.4	17.0	Z	14.0	8.4	2.8	1.2	1.5	4.1	7.1	9.0	11.5	11.5	18.8	23.5	24.9	24.1	23.3	21.5	21.0	21.7	19.2	17.6	14.7	24.9
9-Feb	17.7	16.3	12.8	10.2	Z	7.5	10.6	12.1	13.4	19.1	21.5	24.4	17.0	21.1	22.1	21.0	23.5	22.6	25.4	22.4	25.2	22.8	24.8	26.4	19.1	26.4
10-Feb	25.2	24.0	23.9	24.5	24.4	Z	21.2	18.2	16.2	17.1	17.7	18.0	18.5	19.4	20.2	14.9	15.0	8.0	11.3	14.9	15.4	14.4	13.7	12.8	17.8	25.2
11-Feb	Z	12.0	11.4	11.0	9.8	10.6	12.3	10.3	10.8	13.8	15.5	18.1	18.5	15.1	13.4	11.8	3.7	6.4	6.7	6.7	3.3	7.1	8.4	20.2	11.2	20.2
12-Feb	23.3	Z	17.8	15.4	12.4	8.1	7.4	5.5	4.3	11.1	22.7	23.0	24.5	25.3	24.5	27.6	17.6	9.0	4.9	8.1	4.3	20.5	41.4	43.7	17.5	43.7
13-Feb	44.9	45.2	Z	45.1	44.5	44.1	43.5	27.7	36.6	42.5	42.5	41.5	42.2	42.0	42.9	43.7	32.7	13.5	21.3	16.2	28.6	13.2	11.9	19.7	34.2	45.2
14-Feb	27.3	22.7	24.8	Z	22.4	17.8	20.6	18.2	15.9	19.8	23.4	25.4	23.1	28.0	32.4	30.6	21.5	3.9	1.2	2.8	1.2	1.1	2.4	4.1	17.0	32.4
15-Feb	1.4	1.0	6.5	23.4	Z	21.2	23.1	21.8	25.8	25.3	26.2	26.1	26.2	27.1	24.7	21.0	20.0	18.2	16.9	10.9	11.3	10.7	11.4	11.5	17.9	27.1
16-Feb	13.4	13.7	13.0	12.5	11.7	Z	8.3	7.8	8.8	13.5	15.6	12.3	13.2	13.5	17.1	15.8	11.6	6.3	9.4	7.5	7.2	7.8	8.1	9.1	11.2	17.1
17-Feb	Z	7.8	8.6	8.3	8.8	9.7	11.4	10.7	11.2	13.3	14.7	16.5	18.7	20.4	21.3	22.3	23.2	23.1	23.3	22.4	20.6	18.6	17.1	14.1	15.9	23.3
18-Feb	8.4	Z	4.0	2.8	1.7	1.7	2.4	2.6	3.5	4.3	4.7	5.0	4.9	4.7	4.4	4.3	4.1	2.9	1.5	0.9	0.8	0.8	0.7	0.8	3.1	8.4
19-Feb	0.8	0.8	Z	0.9	0.9	0.9	1.0	1.1	2.8	4.2	5.5	7.6	10.1	13.5	16.6	17.3	12.6	2.8	3.4	8.7	9.1	8.5	9.1	10.8	6.5	17.3
20-Feb	14.8	16.4	15.7	Z	12.2	11.7	10.4	9.4	11.0	18.4	20.9	21.2	24.7	25.7	27.6	30.2	23.7	12.0	2.3	2.9	15.1	19.3	16.3	15.7	16.4	30.2
21-Feb	12.4	12.1	13.3	15.7	Z	11.6	9.8	5.7	5.1	7.7	10.5	13.9	16.5	25.0	26.1	31.2	27.2	25.6	25.7	27.1	21.0	13.7	12.2	11.2	16.5	31.2
22-Feb	8.9	7.1	7.4	6.3	6.6	Z	2.7	2.3	4.9	6.6	7.3	7.7	8.2	8.5	7.7	7.0	5.2	2.1	1.2	22.7	28.3	27.1	27.5	26.3	10.4	28.3
23-Feb	Z	25.1	24.0	23.4	22.8	14.5	14.9	19.1	24.1	20.4	22.4	22.2	21.5	25.1	25.6	25.2	23.2	25.6	9.2	8.6	10.9	14.0	13.0	11.4	19.4	25.6
24-Feb	14.2	Z	15.9	12.5	10.6	11.9	10.3	10.0	13.1	15.5	16.8	19.7	23.1	27.9	32.9	34.1	26.7	9.4	10.2	8.7	16.6	21.6	23.5	23.9	17.8	34.1
25-Feb	24.0	24.4	Z	23.7	23.2	22.0	15.4	14.1	14.3	21.7	24.6	25.6	26.0	24.6	25.0	26.4	24.4	25.2	8.8	1.0	1.2	2.1	13.2	21.0	18.8	26.4
26-Feb	22.5	24.3	24.4	Z	21.0	19.1	16.6	13.7	15.6	17.9	19.7	22.5	26.0	29.1	29.9	30.3	30.6	29.4	29.3	28.3	25.1	23.3	22.6	25.1	23.8	30.6
27-Feb	28.1	30.4	30.8	31.8	Z	25.6	24.6	21.1	21.2	23.0	21.5	C	C	C	C	22.0	21.3	13.8	8.3	12.5	12.8	12.8	12.6	11.6	20.3	31.8
28-Feb	10.3	10.9	8.6	7.2	10.6	Z	8.1	7.2	12.3	15.0	17.4	18.8	21.1	23.1	25.1	24.6	21.5	15.3	3.4	2.2	3.5	3.7	14.0	19.2	13.2	25.1
	18.3	18.8	17.2	18.5	17.8	17.4	16.0	15.1	16.3	18.6	20.4	21.1	21.7	23.0	23.5	23.4	20.5	16.5	14.1	14.4	15.4	15.1	16.1	17.3	Diurnal Average	
	44.9	45.2	30.8	45.1	44.5	44.1	43.5	31.0	36.6	42.5	42.5	41.5	42.2	42.0	42.9	43.7	32.9	34.0	32.4	31.9	31.4	31.3	41.4	43.7	Diurnal Maximum	

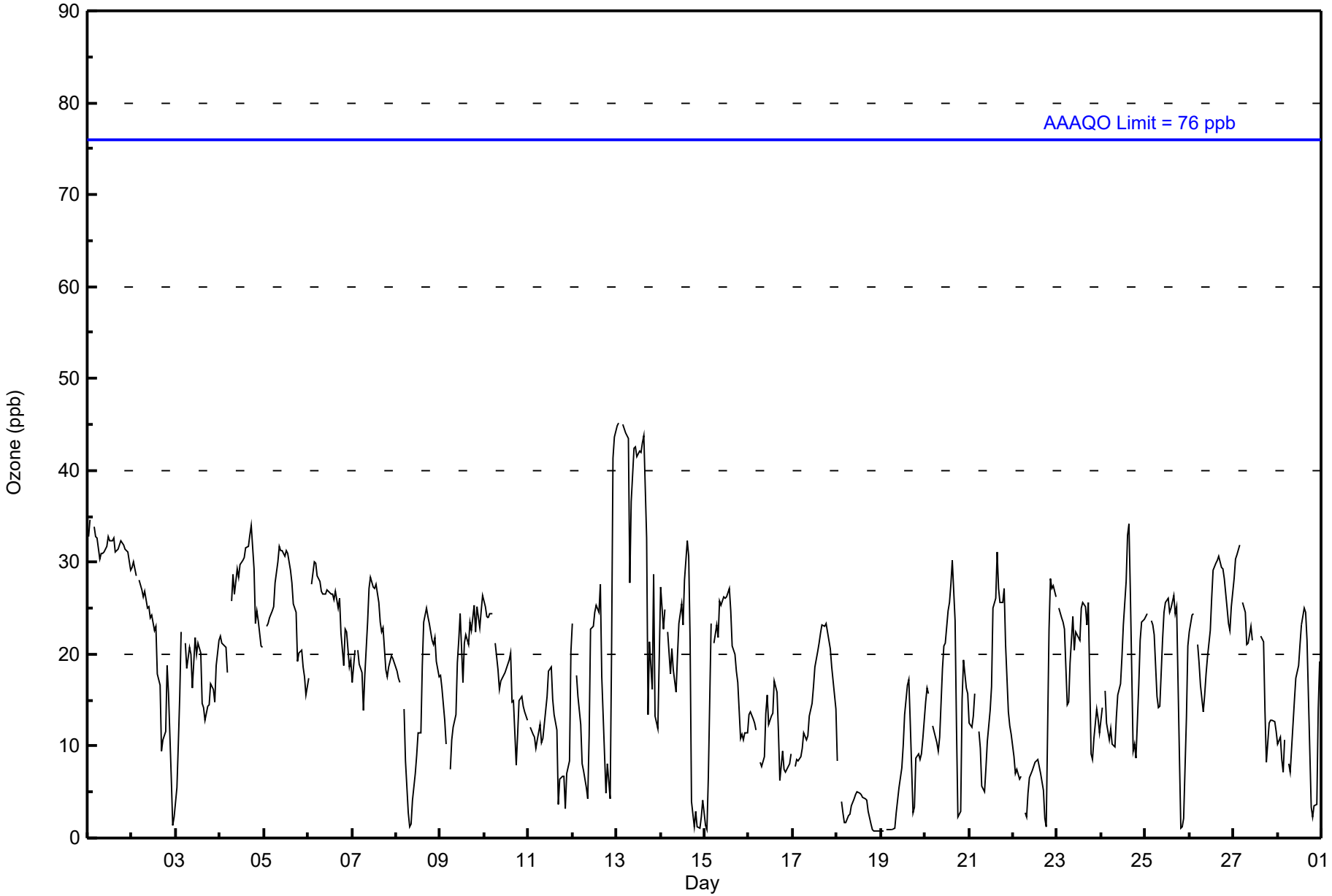
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 76 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ozone (O_3) - ppb

Athabasca Valley - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	356	55.63	55.63
21 - 50	284	44.38	100.00
51 - 82	0	0.00	100.00
> 83	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Ozone (O_3) - ppb

Athabasca Valley - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	10	8	6	5	10	58	32	18	11	13	12	12	8	7	39	107	356
21 - 50	5	3	7	5	20	65	15	3	2	6	22	7	2	6	37	79	284
51 - 82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	15	11	13	10	30	123	47	21	13	19	34	19	10	13	76	186	640

Total Number of Valid Hours: 640

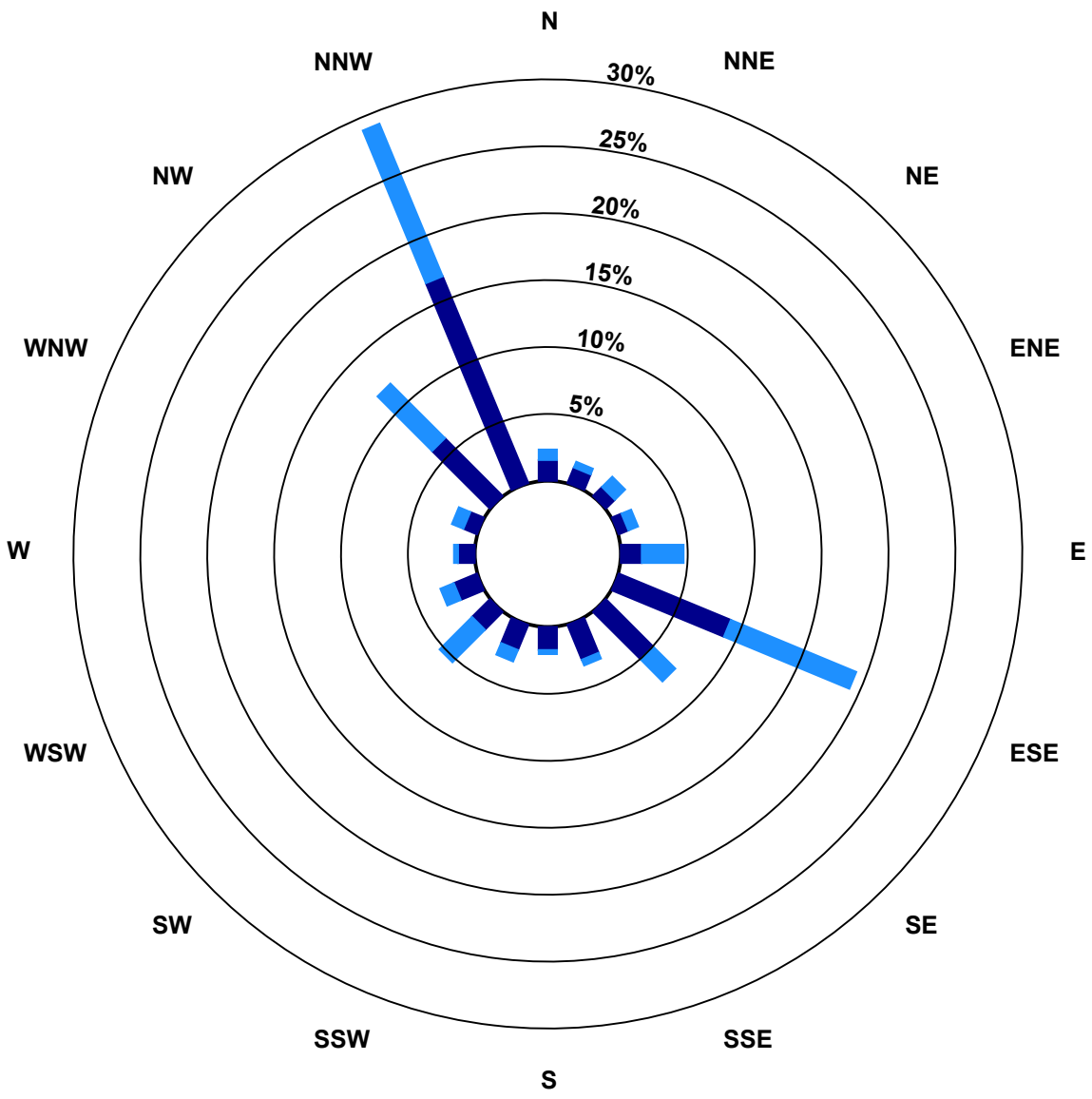
Total Number of Hours: 672

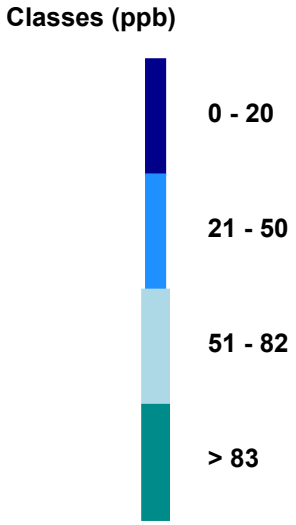
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Ozone (O_3) - ppb

Athabasca Valley





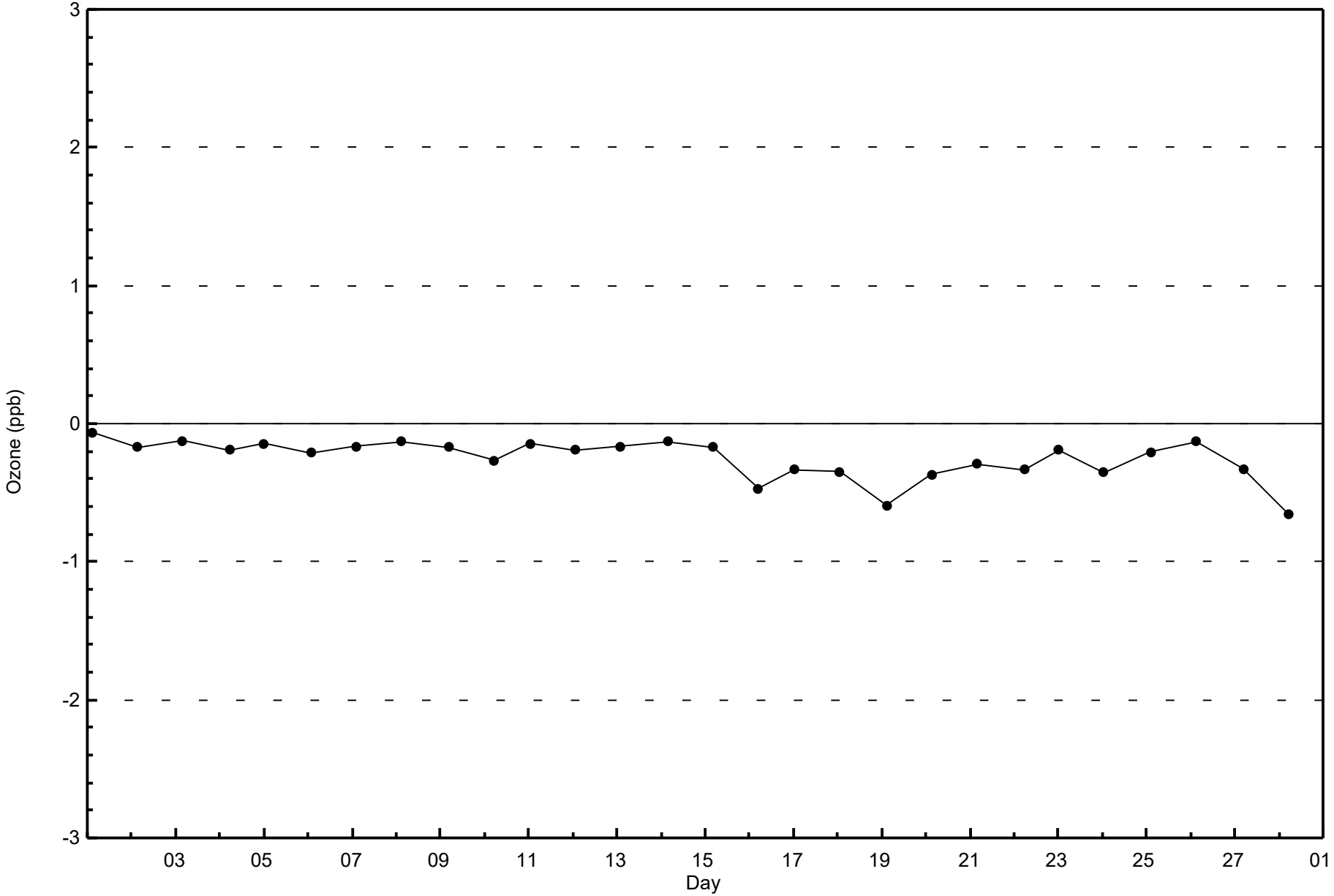
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Ozone (O_3) - ppb

Athabasca Valley - February 2026

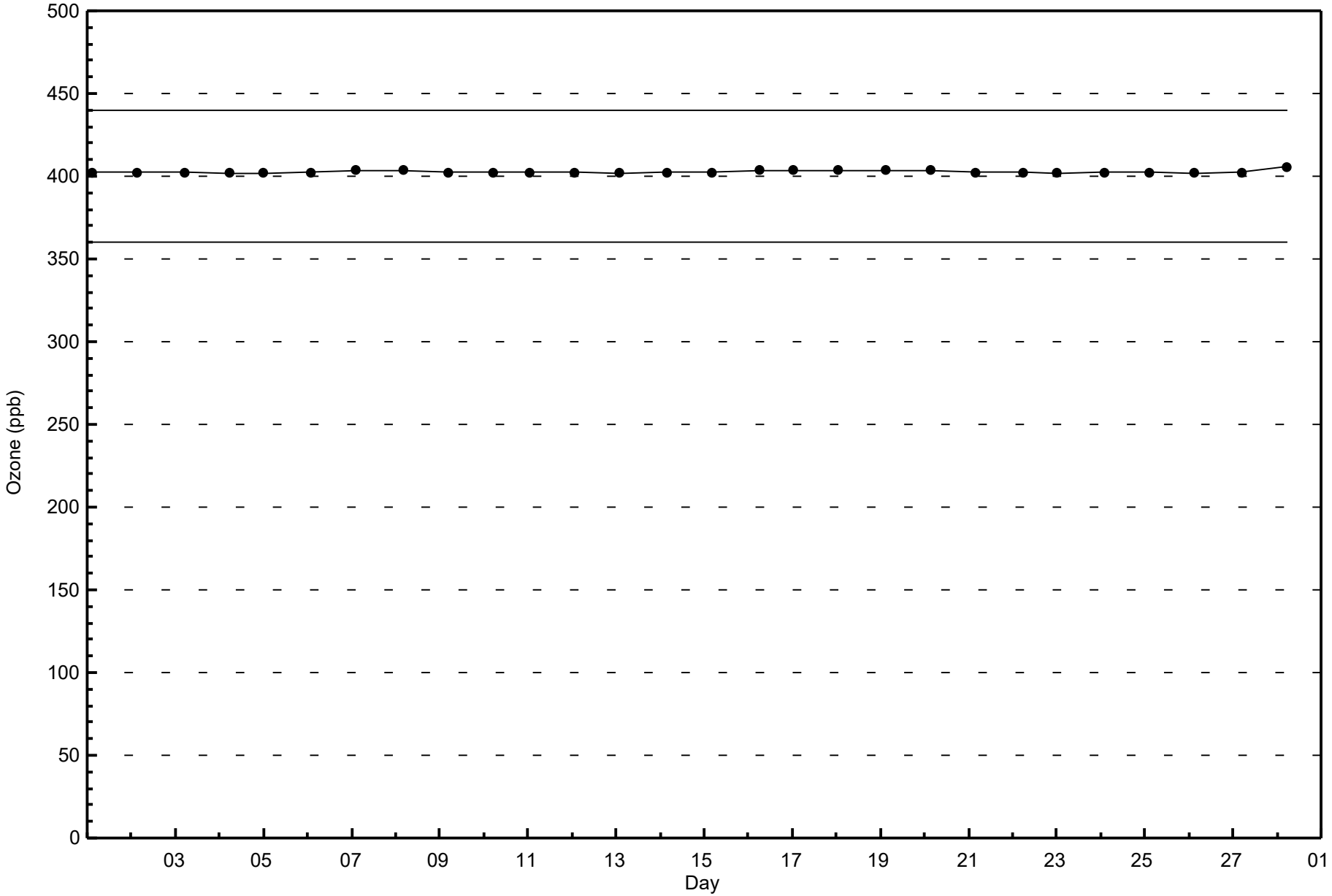


Wood Buffalo Environmental Association

Span Responses

Ozone (O_3) - ppb

Athabasca Valley - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Athabasca Valley - February 2026

Maximum Value: 58.2 ppb on Feb 11 17:00

Maximum Daily Average: 12.2 ppb on Feb 11

Minimum Value: 0.0 ppb on Feb 1 02:00

Minimum Daily Average: 0.6 ppb on Feb 5

Maximum Diurnal Average: 7.8 ppb at hour 12

Minimum Diurnal Average: 0.7 ppb at hour 5

Monthly Average: 4.58 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.4 Median = 1.7 Q_3 = 6.1 P_{90} = 13.5 P_{99} = 30.2

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.1	0.3	Z	0.3	0.4	0.5	1.0	1.5	2.0	2.0	2.3	2.3	2.2	2.2	1.5	1.3	1.2	1.2	1.2	1.1	0.9	0.8	1.1	2.3
2-Feb	0.6	0.5	0.7	0.7	1.0	Z	1.1	1.1	2.2	2.7	4.1	3.7	4.5	4.2	7.5	4.3	6.2	4.4	4.3	1.5	1.7	10.2	8.9	1.0	3.4	10.2
3-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.5	2.2	2.0	3.8	3.6	3.6	6.8	4.7	4.0	3.0	2.8	2.5	2.5	2.4	1.5	1.0	2.1	6.8
4-Feb	0.7	Z	0.8	0.8	1.2	2.3	0.6	0.6	1.3	1.0	1.6	0.9	1.3	1.4	1.6	1.2	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.8	2.3
5-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	1.2	1.3	1.4	1.8	1.3	1.1	1.0	1.1	1.1	0.2	0.3	0.2	0.1	0.6	1.8
6-Feb	0.0	0.1	0.4	Z	0.5	0.7	0.9	1.5	1.3	1.7	1.7	1.6	1.7	1.5	1.9	1.6	1.8	0.9	1.6	2.2	1.3	1.2	1.4	0.5	1.2	2.2
7-Feb	0.3	0.1	0.1	0.1	Z	1.6	0.7	0.1	0.3	0.6	1.0	1.4	1.9	1.6	2.4	2.0	0.9	0.1	0.1	0.1	0.3	0.1	0.1	0.0	0.7	2.4
8-Feb	0.0	0.0	0.0	0.0	0.0	Z	1.1	2.6	21.3	18.4	20.1	16.8	15.6	19.0	5.9	1.7	0.5	0.1	0.0	0.1	0.0	0.1	0.1	0.1	5.4	21.3
9-Feb	Z	0.2	0.3	0.2	0.2	1.2	1.3	0.4	2.9	3.0	3.4	3.1	9.7	5.0	3.6	3.0	1.1	0.3	0.1	0.1	0.0	0.1	0.1	0.0	1.7	9.7
10-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.1	1.8	6.8	13.6	15.9	13.5	11.2	5.3	11.9	6.2	13.6	8.1	3.6	2.3	2.1	1.2	0.9	5.1	15.9
11-Feb	0.8	0.5	Z	0.6	1.5	1.2	1.4	4.6	7.3	7.2	8.7	7.5	8.9	14.9	21.0	33.0	58.2	15.4	11.3	21.6	27.3	18.1	8.8	1.3	12.2	58.2
12-Feb	1.1	0.9	1.1	Z	1.3	3.2	4.6	6.9	27.4	19.4	11.1	13.5	14.9	17.8	13.9	4.7	7.1	21.3	26.0	12.4	15.2	4.3	0.2	0.1	9.9	27.4
13-Feb	0.0	0.0	0.1	0.1	Z	0.2	0.2	6.4	1.3	0.8	0.7	1.2	1.4	2.0	1.2	0.5	3.3	10.2	1.7	3.3	2.5	8.3	6.3	2.8	2.4	10.2
14-Feb	0.2	0.6	0.1	0.4	0.8	Z	0.7	2.2	5.3	6.1	6.4	7.7	10.6	7.6	7.3	6.9	6.1	11.7	19.1	23.7	28.6	37.9	21.1	10.4	9.6	37.9
15-Feb	Z	25.2	7.7	0.0	0.0	0.0	0.0	0.0	0.3	1.2	1.7	2.5	3.1	2.6	3.4	5.9	3.5	1.8	0.5	0.4	1.8	0.7	0.3	0.4	2.7	25.2
16-Feb	0.5	Z	0.4	0.2	0.5	0.8	1.5	3.4	5.3	6.1	10.5	34.5	31.0	28.2	11.8	7.9	7.2	5.1	0.4	0.3	0.2	0.2	0.1	0.1	6.8	34.5
17-Feb	0.2	0.2	Z	0.2	0.1	0.1	0.1	0.3	2.3	3.3	3.6	3.1	2.3	2.4	2.3	0.5	0.4	0.2	0.2	0.2	0.3	0.1	0.2	0.1	1.0	3.6
18-Feb	0.1	0.1	0.3	Z	1.1	1.1	0.7	0.8	1.4	2.0	2.0	2.8	3.0	3.2	2.3	2.5	1.8	3.2	4.6	6.3	10.0	12.9	5.8	5.0	3.2	12.9
19-Feb	4.8	8.7	6.2	9.9	Z	14.0	23.5	16.3	11.7	17.8	19.1	C	C	C	C	C	C	55.4	40.7	7.7	8.7	10.7	10.7	5.0	--	55.4
20-Feb	2.3	1.6	1.4	1.5	1.8	Z	8.3	14.5	15.6	8.6	10.6	14.7	10.2	10.5	8.6	4.6	5.9	7.1	12.8	12.5	1.0	0.2	0.2	0.2	6.7	15.6
21-Feb	Z	0.2	0.2	0.1	0.1	0.1	0.5	4.4	17.3	23.4	23.7	16.9	16.1	5.9	4.9	1.1	1.0	0.6	0.5	0.4	0.2	0.4	0.1	0.0	5.1	23.7
22-Feb	0.1	Z	0.1	0.2	0.5	1.9	3.2	3.2	5.1	6.3	8.2	9.4	11.4	13.3	12.3	13.2	16.1	14.9	20.9	4.2	1.5	1.3	1.5	1.7	6.5	20.9
23-Feb	1.1	1.4	Z	0.8	0.9	4.8	3.3	1.5	0.9	4.6	6.6	8.4	8.4	4.5	3.3	3.6	3.0	0.5	1.9	5.8	4.6	3.4	2.4	2.2	3.4	8.4
24-Feb	1.0	0.3	0.7	Z	3.3	4.4	3.6	7.3	10.0	14.8	18.5	13.9	7.1	3.5	2.8	1.8	7.2	14.1	7.8	15.7	3.3	1.3	1.3	1.1	6.3	18.5
25-Feb	0.9	1.0	0.8	0.7	Z	0.0	0.5	4.8	9.3	6.5	6.0	7.0	6.1	6.9	6.6	5.5	3.7	1.0	18.0	28.2	13.9	8.1	0.6	0.1	5.9	28.2
26-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.5	2.2	2.9	3.8	4.3	1.9	1.4	1.6	1.2	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.9	4.3
27-Feb	Z	0.0	0.0	0.0	0.0	0.1	0.3	0.7	3.2	2.9	4.2	3.2	4.0	M	2.6	2.8	3.2	3.6	6.1	3.5	2.3	2.7	2.3	1.0	2.2	6.1
28-Feb	1.4	Z	0.7	1.2	1.4	2.9	3.2	12.2	9.0	10.9	9.8	10.1	8.9	7.8	7.4	7.5	6.6	5.4	14.1	22.6	13.2	22.8	4.5	3.2	8.1	22.8
	0.7	1.8	0.9	0.7	0.7	1.8	2.2	3.5	6.0	6.5	7.3	7.8	7.6	7.1	5.6	5.1	5.9	7.0	7.4	6.5	5.2	5.4	2.9	1.4	Diurnal Average	
	4.8	25.2	7.7	9.9	3.3	14.0	23.5	16.3	27.4	23.4	23.7	34.5	31.0	28.2	21.0	33.0	58.2	55.4	40.7	28.2	28.6	37.9	21.1	10.4	Diurnal Maximum	

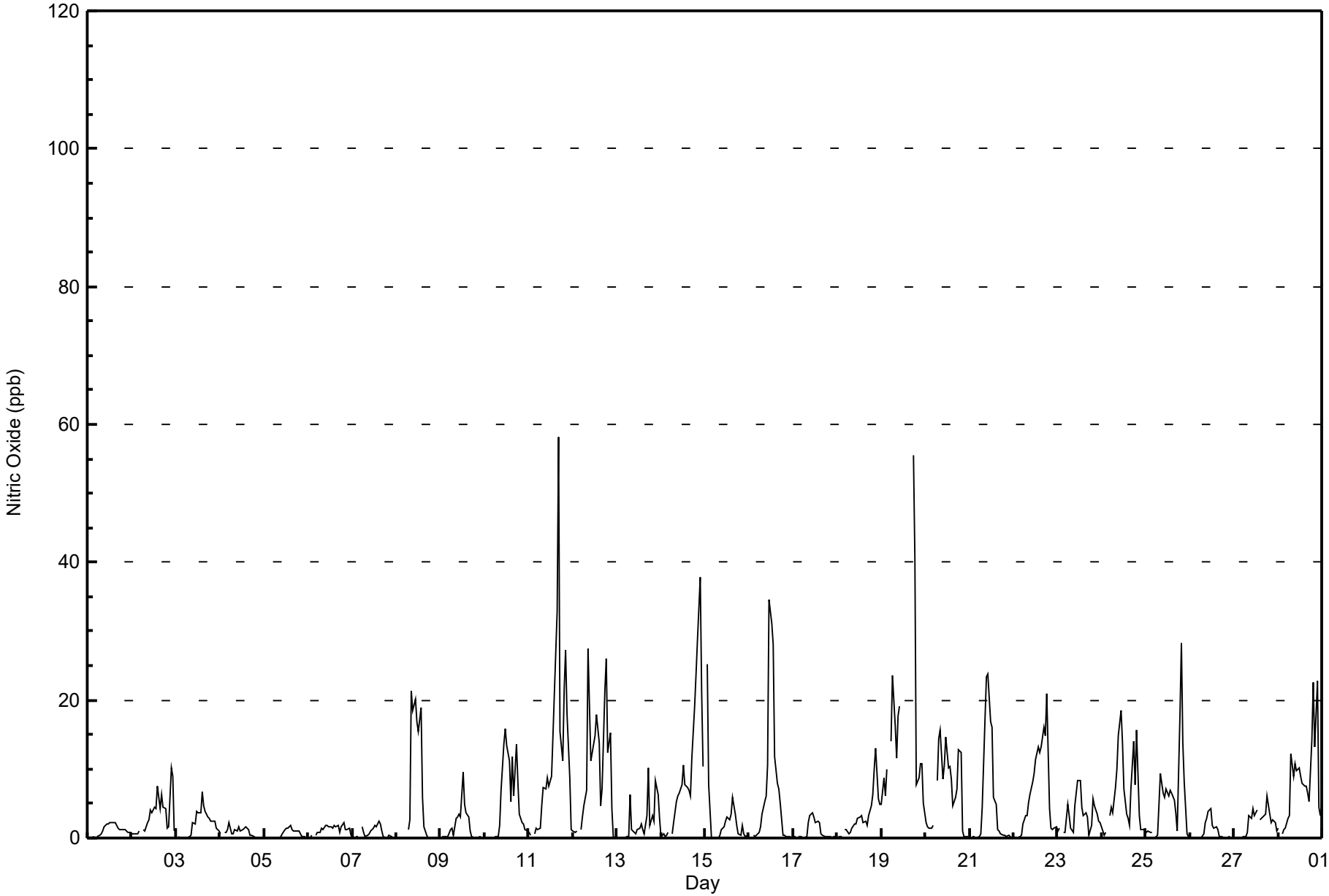
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Athabasca Valley - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	611	95.92	95.92
21 - 40	23	3.61	99.53
11 - 80	3	0.47	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Athabasca Valley - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	14	11	14	10	27	113	40	19	13	19	34	18	8	13	73	185	611
21 - 40	1	0	0	1	0	4	2	4	0	1	1	0	2	0	4	3	23
11 - 80	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	15	11	14	11	27	117	45	23	13	20	35	18	10	13	77	188	637

Total Number of Valid Hours: 637

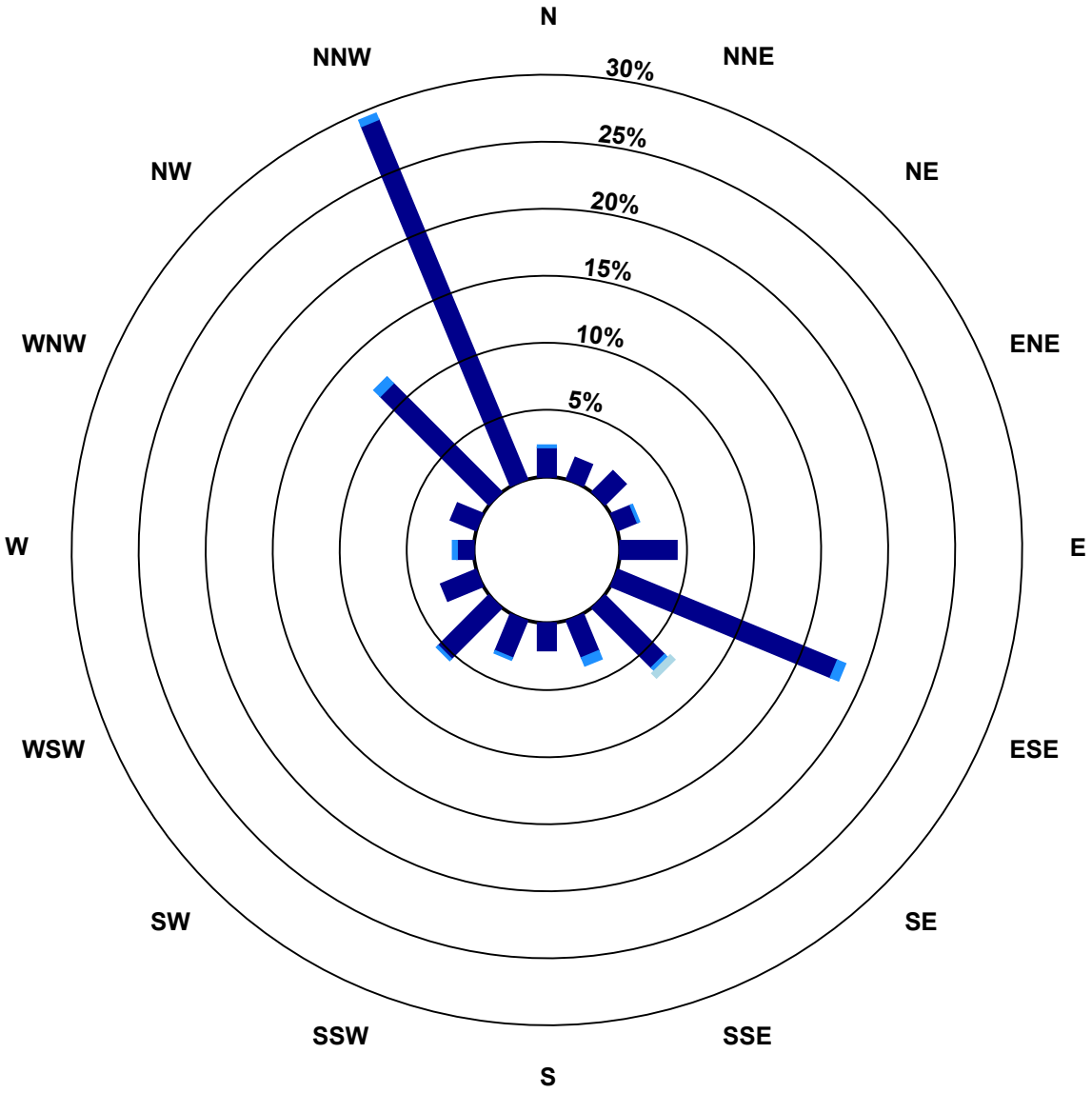
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Athabasca Valley



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

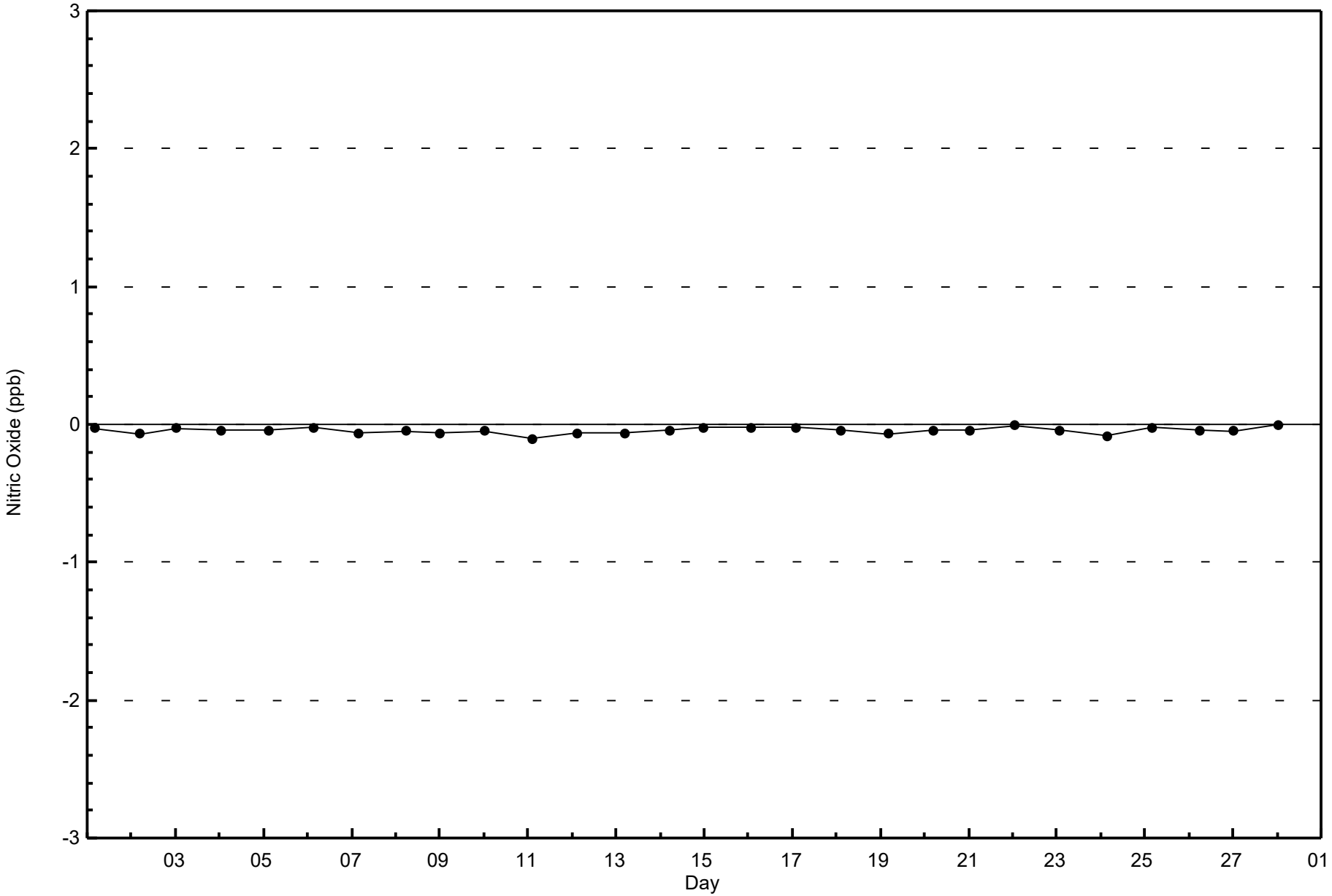
Total Number of Valid Hours: 637

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Athabasca Valley - February 2026

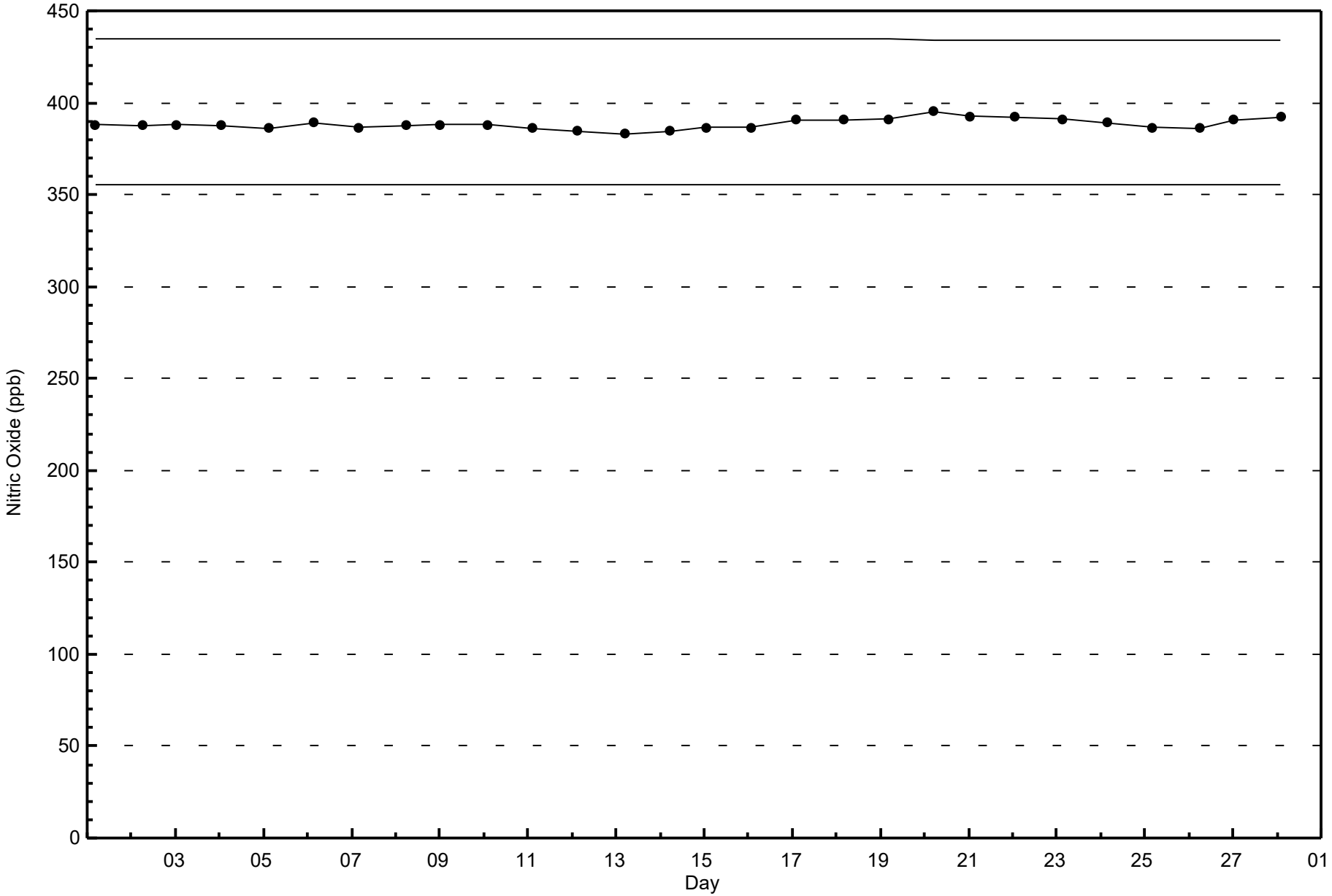


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Athabasca Valley - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Athabasca Valley - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 44.6 ppb on Feb 12 21:00
Maximum Daily Average: 21.3 ppb on Feb 12

Minimum Value: 0.5 ppb on Feb 13 04:00
Minimum Daily Average: 2.8 ppb on Feb 18
Maximum Diurnal Average: 18.3 ppb at hour 19
Minimum Diurnal Average: 7.4 ppb at hour 4
Monthly Average: 10.93 ppb
Percentiles: P_1 = 0.9 P_{10} = 3.3 Q_1 = 5.4 Median = 9.0 Q_3 = 13.5 P_{90} = 21.0 P_{99} = 40.2

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	4.5	2.9	3.7	4.4	Z	5.6	7.8	7.4	7.4	6.6	5.8	4.9	5.3	4.9	4.4	5.8	5.7	5.7	5.2	5.6	6.0	5.8	5.6	7.4	5.6	7.8
2-Feb	6.6	5.7	6.9	6.1	6.9	Z	8.4	7.5	9.1	8.7	9.8	8.9	10.4	9.2	14.5	15.4	22.8	20.8	19.8	9.9	12.8	22.6	26.4	23.3	12.7	26.4
3-Feb	Z	15.0	8.9	4.8	6.6	7.2	9.9	6.8	7.5	12.3	7.6	9.8	9.0	9.6	14.8	14.6	15.8	13.7	13.6	10.9	10.9	12.4	9.0	6.6	10.3	15.8
4-Feb	6.1	Z	5.9	5.8	7.8	8.8	3.3	2.9	5.6	3.0	3.7	2.3	2.0	2.9	4.4	5.4	3.9	2.8	5.2	5.3	3.8	4.2	6.3	7.2	4.7	8.8
5-Feb	6.4	5.2	Z	5.1	5.6	6.1	4.3	2.7	1.8	2.3	2.3	3.4	3.6	3.8	5.5	6.4	8.7	9.2	14.5	12.7	11.3	12.6	13.3	15.1	7.0	15.1
6-Feb	13.0	8.8	6.0	Z	4.0	4.5	4.5	5.1	5.2	5.2	4.6	4.3	4.4	3.9	5.1	3.7	5.2	3.7	7.4	11.5	6.8	6.9	10.5	7.7	6.2	13.0
7-Feb	9.6	3.7	3.4	3.5	Z	4.7	9.6	10.1	7.8	4.7	4.1	5.1	5.4	5.1	7.4	9.4	10.2	9.4	13.6	13.9	12.5	10.5	10.4	10.7	8.0	13.9
8-Feb	11.3	11.9	12.0	13.5	14.3	Z	28.4	30.5	31.4	28.2	25.1	22.3	19.3	20.4	12.7	7.6	5.9	6.6	7.4	8.8	9.1	7.6	10.3	11.9	15.5	31.4
9-Feb	Z	11.8	14.0	16.5	13.9	19.1	14.7	13.4	13.8	9.9	8.0	5.9	13.1	9.2	9.1	11.1	9.6	11.2	8.5	11.4	8.1	10.7	9.0	7.7	11.3	19.1
10-Feb	8.8	Z	9.8	9.3	9.3	9.8	12.0	14.7	16.5	15.8	16.1	16.2	14.7	12.6	8.4	13.9	13.1	20.1	16.7	12.3	10.3	8.0	6.8	6.4	12.2	20.1
11-Feb	5.9	5.9	Z	5.4	6.6	7.2	8.3	13.1	12.6	10.0	8.4	7.6	8.9	14.3	18.0	26.5	42.1	31.6	29.6	30.2	33.5	28.9	25.5	12.9	17.1	42.1
12-Feb	8.1	10.3	11.5	Z	14.9	20.1	20.8	25.2	27.7	23.2	17.4	17.4	17.2	17.6	18.6	16.6	27.4	38.6	44.1	38.3	44.6	26.4	3.0	1.5	21.3	44.6
13-Feb	1.0	0.7	0.8	0.5	Z	1.4	1.7	17.6	7.8	2.0	2.1	3.3	3.1	3.8	3.1	2.5	13.3	32.5	20.8	24.6	10.6	25.2	25.2	16.2	9.6	32.5
14-Feb	5.7	10.0	7.1	10.5	7.9	Z	9.5	12.2	14.7	11.8	9.8	10.6	12.9	11.6	11.7	12.9	21.3	38.7	41.0	40.0	42.5	43.3	39.3	33.9	20.0	43.3
15-Feb	Z	34.0	24.4	5.2	3.9	6.1	4.9	6.7	3.7	4.8	4.6	5.1	5.3	4.7	6.8	10.4	10.7	12.2	13.0	18.3	17.1	16.7	14.2	11.6	10.6	34.0
16-Feb	8.8	Z	7.2	6.6	6.5	7.2	9.4	8.9	9.1	6.3	7.5	16.6	15.6	15.5	9.4	9.5	12.9	16.8	10.2	10.9	11.1	10.7	10.3	8.8	10.3	16.8
17-Feb	10.8	9.2	Z	9.8	10.1	9.8	8.8	9.1	7.5	5.2	4.5	3.7	3.3	3.2	2.9	2.4	3.1	3.6	3.4	3.7	3.6	3.6	3.7	3.5	5.6	10.8
18-Feb	3.2	2.6	2.3	Z	2.0	2.0	1.5	1.8	1.6	1.2	0.8	0.9	0.9	0.9	0.7	0.9	1.1	2.7	4.6	5.7	6.6	7.3	6.3	5.7	2.8	7.3
19-Feb	5.8	6.6	5.9	7.0	Z	7.1	8.4	7.6	4.2	4.0	3.8	C	C	C	C	C	C	35.7	35.4	24.2	23.6	23.6	22.7	19.5	--	35.7
20-Feb	13.8	11.3	10.6	11.3	13.5	Z	17.1	18.8	17.4	9.0	8.7	10.2	9.3	11.4	11.6	9.8	18.3	30.4	40.3	38.1	20.8	12.2	12.4	11.2	16.0	40.3
21-Feb	Z	13.3	12.0	9.3	10.0	12.6	14.3	19.9	23.0	20.8	18.4	12.6	11.6	7.5	6.6	3.1	4.8	5.5	4.0	3.2	6.7	11.4	8.4	5.3	10.6	23.0
22-Feb	5.9	Z	6.4	7.8	7.7	10.0	10.7	9.8	6.1	4.0	3.9	3.5	3.8	5.0	6.7	8.3	11.2	14.8	19.0	8.8	4.8	5.1	4.8	4.5	7.5	19.0
23-Feb	4.4	4.4	Z	5.8	6.4	15.8	15.3	10.1	4.2	8.5	6.4	8.1	10.1	5.7	4.7	6.2	9.7	6.3	23.7	23.2	19.0	15.0	14.8	17.1	10.6	23.7
24-Feb	14.7	13.5	12.8	Z	16.7	16.8	17.5	18.1	14.5	12.4	13.0	10.1	6.5	3.7	3.5	3.3	12.4	31.3	29.1	30.7	19.0	11.8	9.1	8.3	14.3	31.3
25-Feb	7.7	7.1	7.5	7.5	Z	7.9	14.6	16.5	17.0	10.0	8.0	7.6	7.7	10.2	10.8	10.5	12.7	11.6	29.7	37.8	35.1	32.6	20.3	9.5	14.8	37.8
26-Feb	7.1	5.6	5.4	6.3	8.7	Z	13.0	15.6	13.6	11.4	10.2	7.5	4.0	2.6	3.0	2.6	1.3	1.6	1.6	2.4	4.7	5.5	5.3	2.9	6.2	15.6
27-Feb	Z	1.5	2.7	2.5	3.7	7.0	6.9	9.7	8.3	3.7	3.7	2.3	2.6	M	2.0	2.8	5.0	13.2	19.2	13.2	11.8	11.5	10.7	10.1	7.0	19.2
28-Feb	11.2	Z	12.2	13.7	11.1	12.4	13.1	15.4	8.4	6.5	5.5	5.5	5.7	6.1	7.2	9.9	13.5	19.6	32.4	34.1	31.6	31.2	18.5	13.1	14.7	34.1
	7.8	8.7	8.3	7.4	8.6	9.1	10.7	12.0	11.0	9.0	8.0	8.0	8.0	7.9	7.9	8.6	11.9	16.1	18.3	17.5	15.7	15.1	12.9	10.7	Diurnal Average	
	14.7	34.0	24.4	16.5	16.7	20.1	28.4	30.5	31.4	28.2	25.1	22.3	19.3	20.4	18.6	26.5	42.1	38.7	44.1	40.0	44.6	43.3	39.3	33.9	Diurnal Maximum	

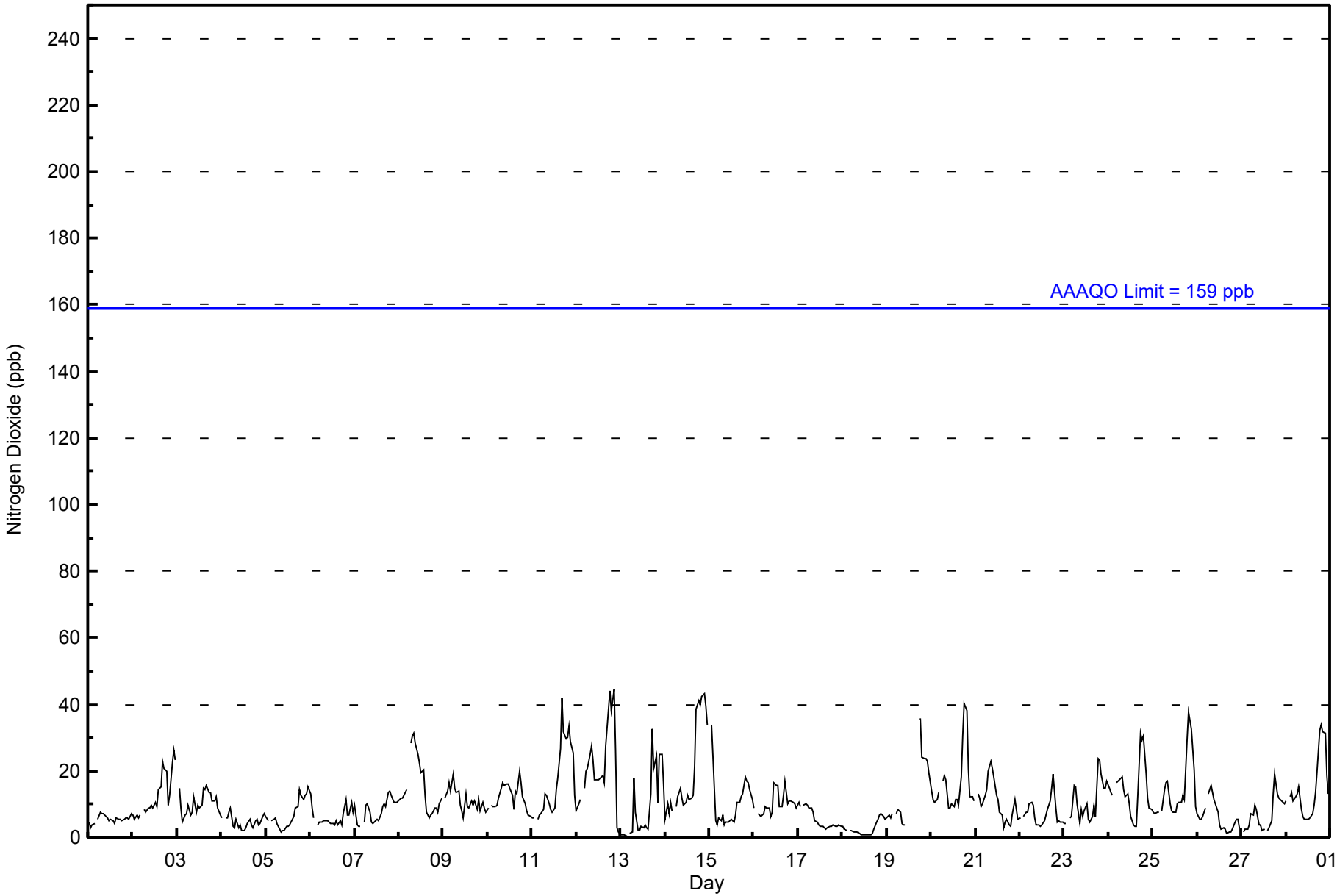
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Athabasca Valley - February 2026



Nitrogen Dioxide (NO_2) - ppb
Athabasca Valley - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	568	89.17	89.17
21 - 40	63	9.89	99.06
11 - 80	6	0.94	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Athabasca Valley - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	14	11	14	10	26	101	36	14	12	18	32	16	7	11	69	177	568
21 - 40	1	0	0	1	1	14	8	9	1	1	3	2	2	2	8	10	63
11 - 80	0	0	0	0	0	2	1	0	0	1	0	0	1	0	0	1	6
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	15	11	14	11	27	117	45	23	13	20	35	18	10	13	77	188	637

Total Number of Valid Hours: 637

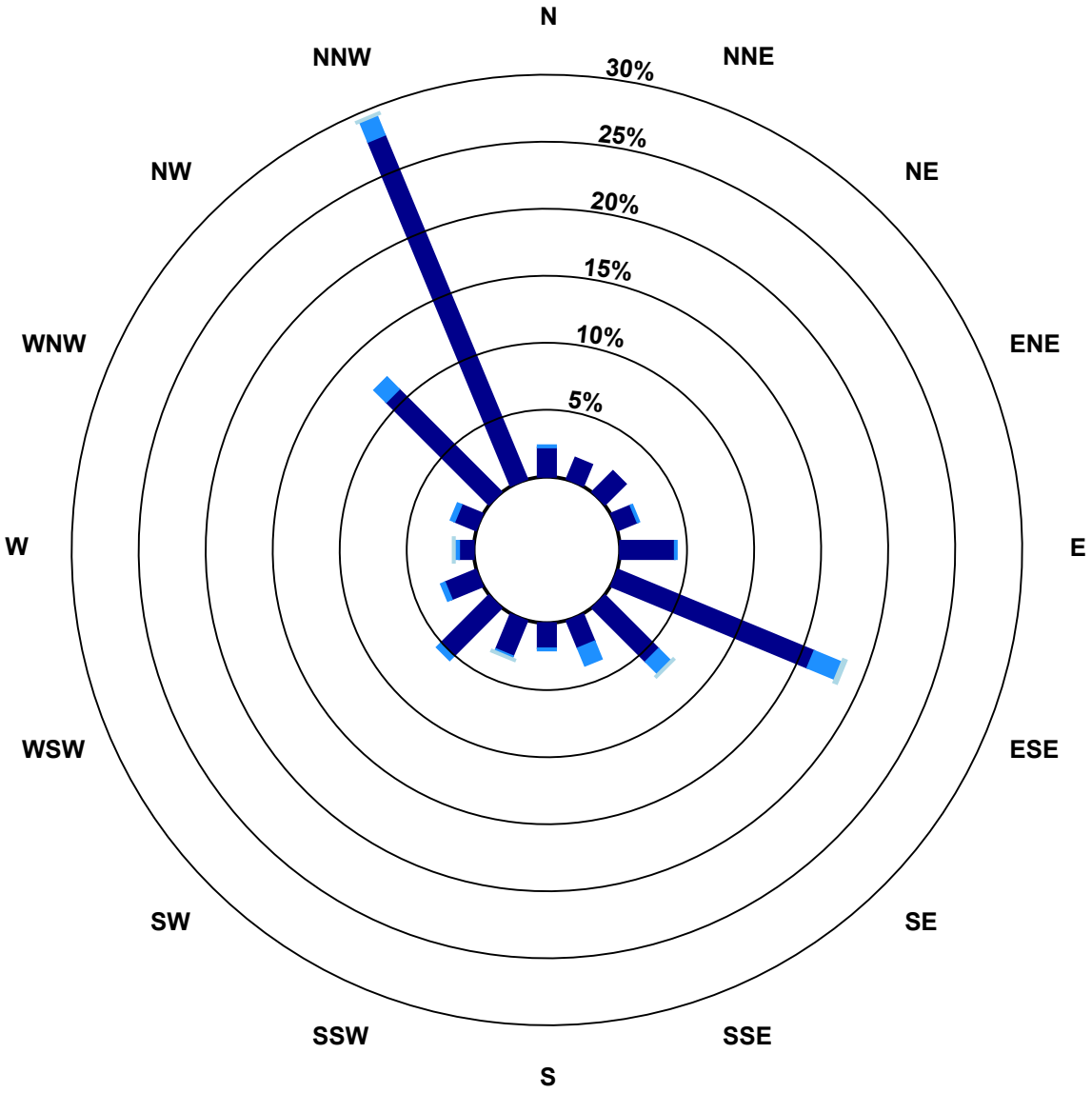
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Athabasca Valley



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

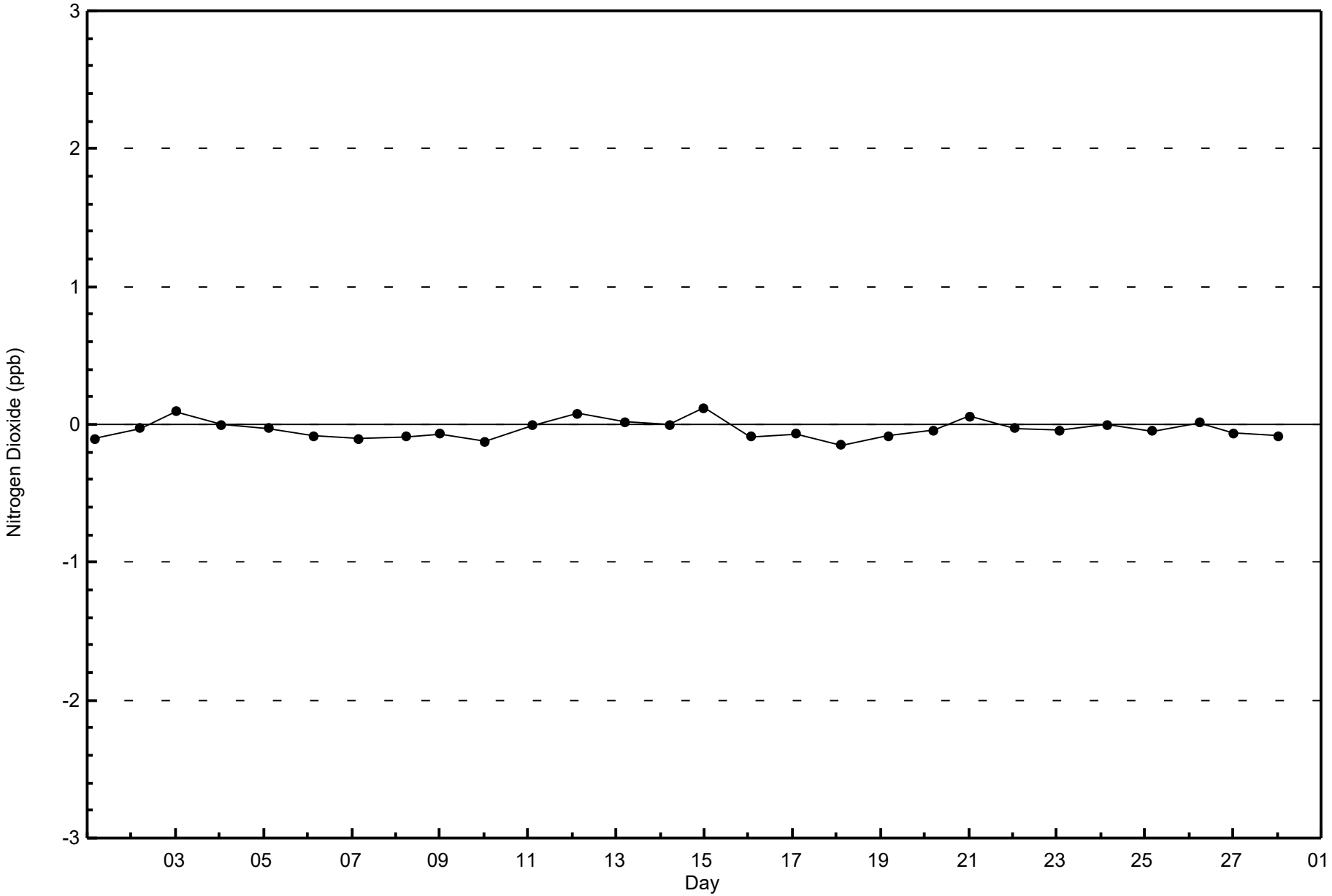
Total Number of Valid Hours: 637

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Athabasca Valley - February 2026

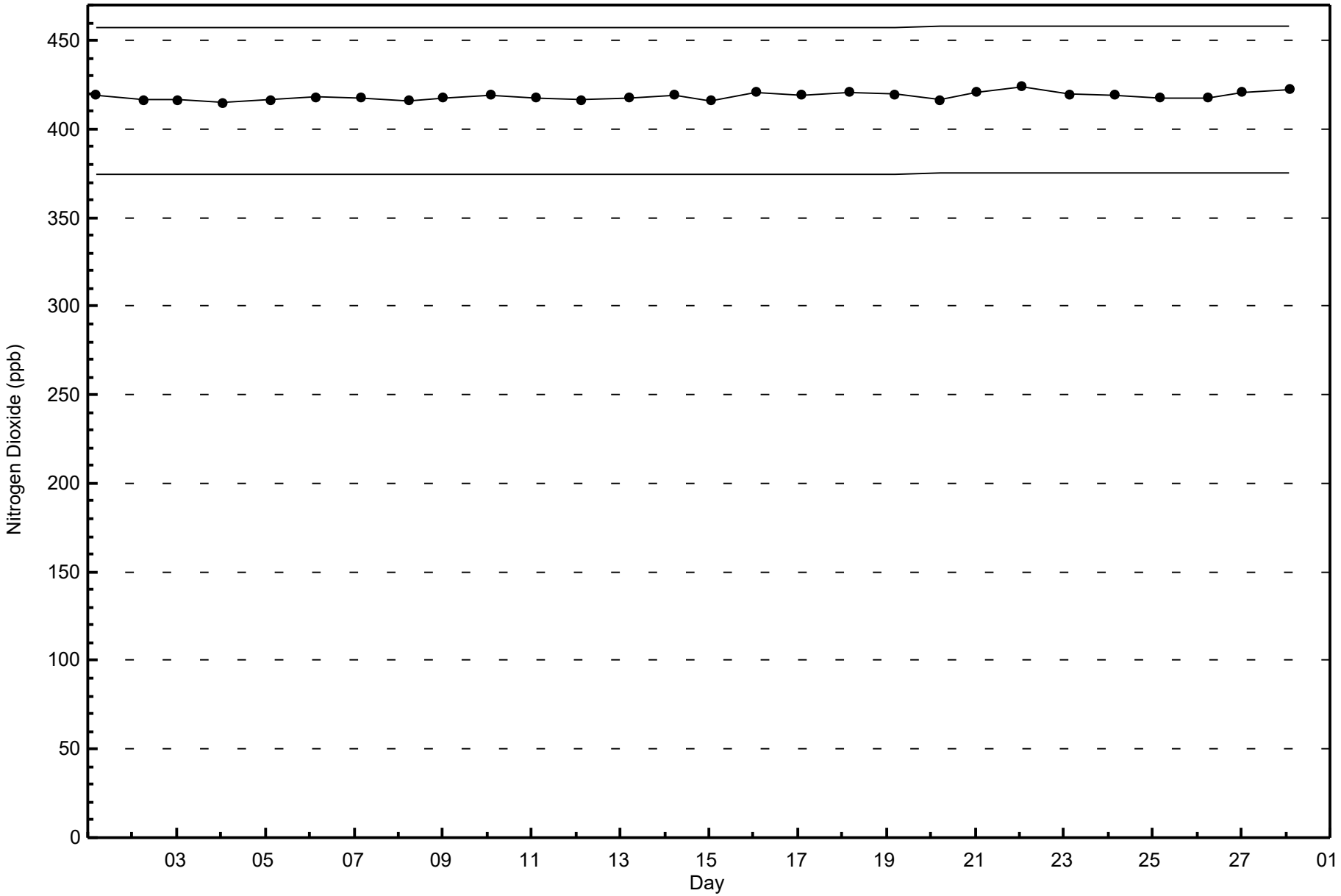


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Athabasca Valley - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Athabasca Valley - February 2026

Maximum Value: 100.3 ppb on Feb 11 17:00

Maximum Daily Average: 31.3 ppb on Feb 12

Minimum Value: 0.6 ppb on Feb 13 04:00

Minimum Daily Average: 5.5 ppb on Feb 4

Maximum Diurnal Average: 25.7 ppb at hour 19

Minimum Diurnal Average: 8.2 ppb at hour 4

Monthly Average: 15.51 ppb

Percentiles: P_1 = 1.6 P_{10} = 4.0 Q_1 = 6.7 Median = 11.5 Q_3 = 18.6 P_{90} = 32.6 P_{99} = 65.2

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	4.5	2.9	3.8	4.7	Z	5.9	8.2	7.9	8.4	8.1	7.8	6.9	7.6	7.2	6.6	8.0	7.2	7.0	6.4	6.8	7.2	6.9	6.5	8.2	6.7	8.4
2-Feb	7.2	6.2	7.6	6.8	7.9	Z	9.5	8.6	11.3	11.4	13.9	12.6	14.9	13.4	22.0	19.7	29.0	25.2	24.1	11.4	14.5	32.8	35.3	24.3	16.1	35.3
3-Feb	Z	15.1	8.9	4.8	6.6	7.2	10.0	7.0	8.0	14.5	9.6	13.6	12.6	13.2	21.6	19.3	19.8	16.7	16.4	13.4	13.4	14.8	10.5	7.6	12.4	21.6
4-Feb	6.8	Z	6.7	6.6	9.0	11.1	3.9	3.5	6.9	4.0	5.3	3.2	3.3	4.3	6.0	6.6	4.4	3.2	5.4	5.3	3.8	4.2	6.3	7.2	5.5	11.1
5-Feb	6.4	5.2	Z	5.1	5.6	6.1	4.3	2.7	1.8	2.5	2.8	4.6	4.9	5.2	7.3	7.7	9.8	10.2	15.6	13.8	11.5	12.9	13.5	15.2	7.6	15.6
6-Feb	13.0	8.9	6.4	Z	4.5	5.2	5.4	6.6	6.5	6.9	6.3	5.9	6.1	5.4	7.0	5.3	7.0	4.6	9.0	13.7	8.1	8.1	11.9	8.2	7.4	13.7
7-Feb	9.9	3.8	3.5	3.6	Z	6.3	10.3	10.2	8.1	5.3	5.1	6.5	7.3	6.7	9.8	11.4	11.1	9.5	13.7	14.0	12.8	10.6	10.5	10.7	8.7	14.0
8-Feb	11.3	11.9	12.0	13.5	14.3	Z	29.5	33.1	52.7	46.6	45.2	39.1	34.9	39.4	18.6	9.3	6.4	6.7	7.4	8.9	9.1	7.7	10.4	12.0	20.9	52.7
9-Feb	Z	12.0	14.3	16.7	14.1	20.3	16.0	13.8	16.7	12.9	11.4	9.0	22.8	14.2	12.7	14.1	10.7	11.5	8.6	11.5	8.1	10.8	9.1	7.7	13.0	22.8
10-Feb	8.8	Z	9.8	9.3	9.3	9.8	12.1	14.8	18.3	22.6	29.7	32.1	28.2	23.8	13.7	25.8	19.3	33.7	24.8	15.9	12.6	10.1	8.0	7.3	17.4	33.7
11-Feb	6.7	6.4	Z	6.0	8.1	8.4	9.7	17.7	19.9	17.2	17.1	15.1	17.8	29.2	39.0	59.5	100.3	47.0	40.9	51.8	60.8	47.0	34.3	14.2	29.3	100.3
12-Feb	9.2	11.2	12.6	Z	16.2	23.3	25.4	32.1	55.1	42.6	28.5	30.9	32.1	35.4	32.5	21.3	34.5	59.9	70.1	50.7	59.8	30.7	3.2	1.6	31.3	70.1
13-Feb	1.0	0.7	0.9	0.6	Z	1.6	1.9	24.0	9.1	2.8	2.8	4.5	4.5	5.8	4.3	3.0	16.6	42.7	22.5	27.9	13.1	33.5	31.5	19.0	11.9	42.7
14-Feb	5.9	10.6	7.2	10.9	8.7	Z	10.2	14.4	20.0	17.9	16.2	18.3	23.5	19.2	19.0	19.8	27.4	50.4	60.1	63.7	71.1	81.2	60.4	44.3	29.6	81.2
15-Feb	Z	59.2	32.1	5.2	3.9	6.1	4.9	6.7	4.0	6.0	6.3	7.6	8.4	7.3	10.2	16.3	14.2	14.0	13.5	18.7	18.9	17.4	14.5	12.0	13.4	59.2
16-Feb	9.3	Z	7.6	6.8	7.0	8.0	10.9	12.3	14.4	12.4	18.0	51.1	46.6	43.7	21.2	17.4	20.1	21.9	10.6	11.2	11.3	10.9	10.4	8.9	17.0	51.1
17-Feb	11.0	9.4	Z	10.0	10.2	9.9	8.9	9.4	9.8	8.5	8.1	6.8	5.6	5.6	5.2	2.9	3.5	3.8	3.6	3.9	3.9	3.7	3.9	3.6	6.6	11.0
18-Feb	3.3	2.7	2.6	Z	3.1	3.1	2.2	2.6	3.0	3.2	2.8	3.7	3.9	4.1	3.0	3.4	2.9	5.9	9.2	12.0	16.6	20.2	12.1	10.7	5.9	20.2
19-Feb	10.6	15.3	12.1	16.9	Z	21.1	31.9	23.9	15.9	21.8	22.9	C	C	C	C	C	C	91.1	76.1	31.9	32.3	34.3	33.4	24.5	--	91.1
20-Feb	16.1	12.9	12.0	12.8	15.3	Z	25.4	33.3	33.0	17.6	19.3	24.9	19.5	21.9	20.3	14.4	24.2	37.5	53.1	50.6	21.8	12.4	12.6	11.4	22.7	53.1
21-Feb	Z	13.5	12.2	9.4	10.1	12.7	14.8	24.3	40.3	44.2	42.1	29.5	27.7	13.4	11.5	4.2	5.8	6.1	4.5	3.6	6.9	11.8	8.5	5.3	15.8	44.2
22-Feb	6.0	Z	6.5	8.0	8.2	11.9	13.9	13.0	11.2	10.3	12.1	12.9	15.2	18.3	19.0	21.5	27.3	29.7	39.9	13.0	6.3	6.4	6.3	6.2	14.0	39.9
23-Feb	5.5	5.8	Z	6.6	7.3	20.6	18.6	11.6	5.1	13.1	13.0	16.5	18.5	10.2	8.0	9.8	12.7	6.8	25.6	29.0	23.6	18.4	17.2	19.3	14.0	29.0
24-Feb	15.7	13.8	13.5	Z	20.0	21.2	21.1	25.4	24.5	27.2	31.5	24.0	13.6	7.2	6.3	5.1	19.6	45.4	36.9	46.4	22.3	13.1	10.4	9.4	20.6	46.4
25-Feb	8.6	8.1	8.3	8.2	Z	7.9	15.1	21.3	26.3	16.5	14.0	14.6	13.8	17.1	17.4	16.0	16.4	12.6	47.7	66.0	49.0	40.7	20.9	9.6	20.7	66.0
26-Feb	7.1	5.6	5.4	6.3	8.7	Z	13.1	16.1	15.8	14.3	14.0	11.9	5.9	4.0	4.6	3.8	1.5	1.7	1.6	2.4	4.8	5.6	5.4	2.9	7.1	16.1
27-Feb	Z	1.5	2.7	2.5	3.7	7.1	7.2	10.4	11.5	6.6	7.9	5.5	6.6	M	4.6	5.6	8.2	16.8	25.3	16.7	14.1	14.2	13.0	11.1	9.2	25.3
28-Feb	12.6	Z	12.9	14.9	12.5	15.3	16.3	27.6	17.4	17.4	15.3	15.6	14.6	13.9	14.6	17.4	20.1	25.0	46.5	56.7	44.8	54.0	23.0	16.3	22.8	56.7
	8.5	10.5	9.2	8.2	9.3	10.9	12.9	15.5	17.0	15.5	15.3	15.8	15.6	15.0	13.6	13.7	17.8	23.1	25.7	24.0	20.8	20.5	15.8	12.1	Diurnal Average	
	16.1	59.2	32.1	16.9	20.0	23.3	31.9	33.3	55.1	46.6	45.2	51.1	46.6	43.7	39.0	59.5	100.3	91.1	76.1	66.0	71.1	81.2	60.4	44.3	Diurnal Maximum	

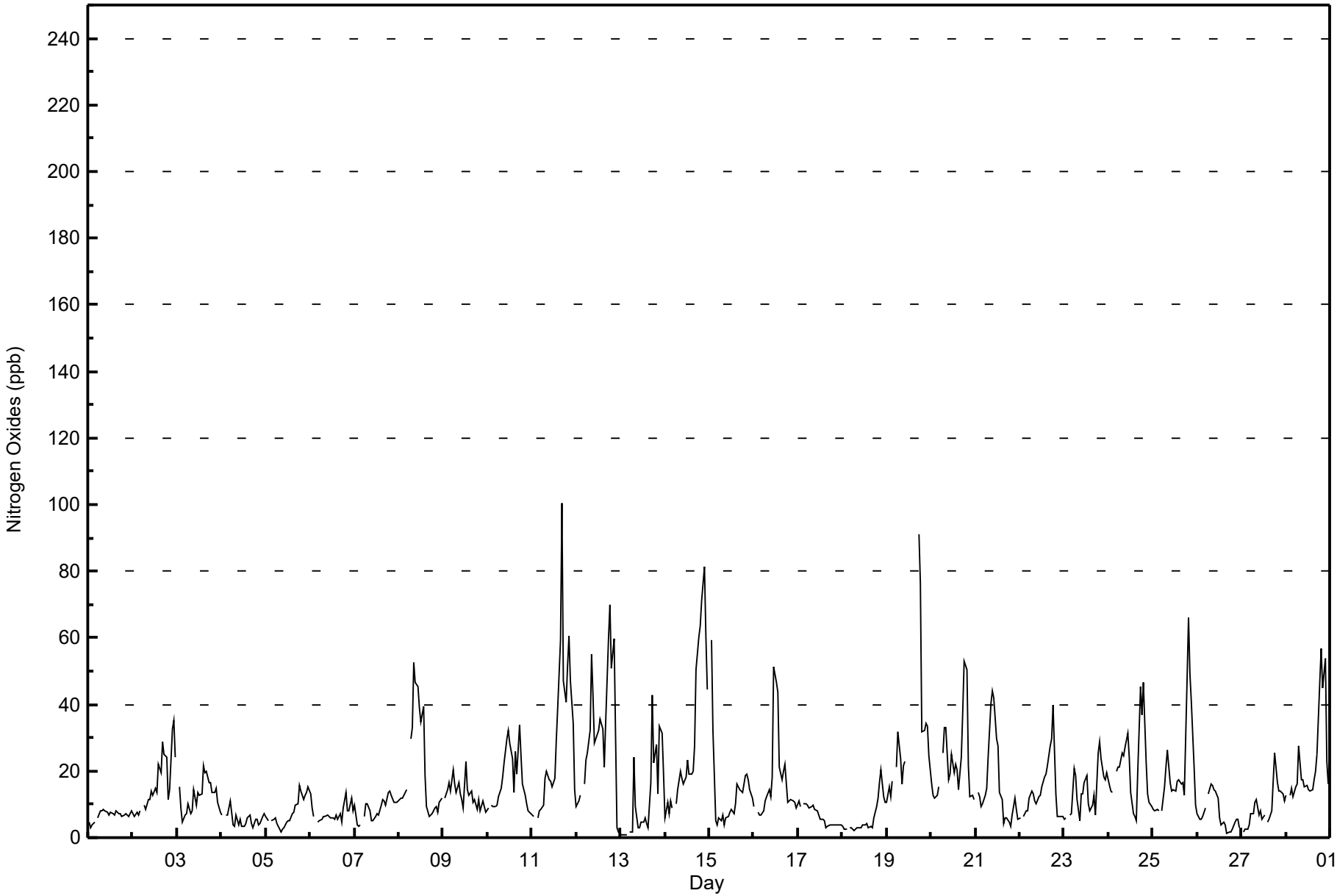
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Athabasca Valley - February 2026



Nitrogen Oxides (NO_X) - ppb
Athabasca Valley - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	501	78.65	78.65
21 - 40	92	14.44	93.09
11 - 80	41	6.44	99.53
81 - 159	2	0.31	99.84
> 159	0	0.00	99.84

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Athabasca Valley - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	11	11	13	8	24	87	22	10	9	18	32	13	3	10	63	167	501
21 - 40	3	0	1	2	3	23	16	7	3	0	2	5	4	2	7	14	92
11 - 80	1	0	0	1	0	7	5	6	1	1	1	0	3	1	7	7	41
81 - 159	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	15	11	14	11	27	117	45	23	13	19	35	18	10	13	77	188	636

Total Number of Valid Hours: 637

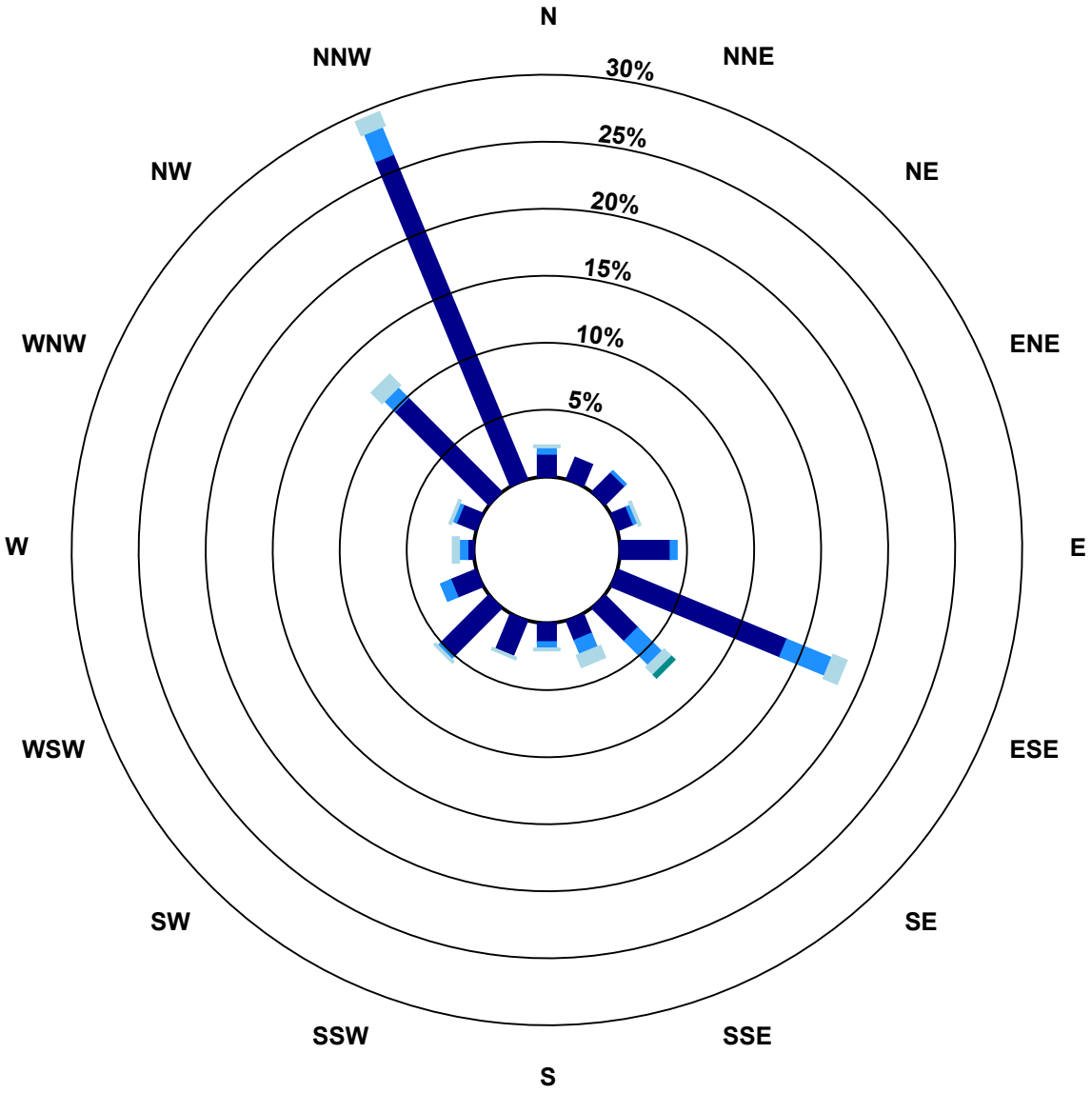
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Athabasca Valley



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

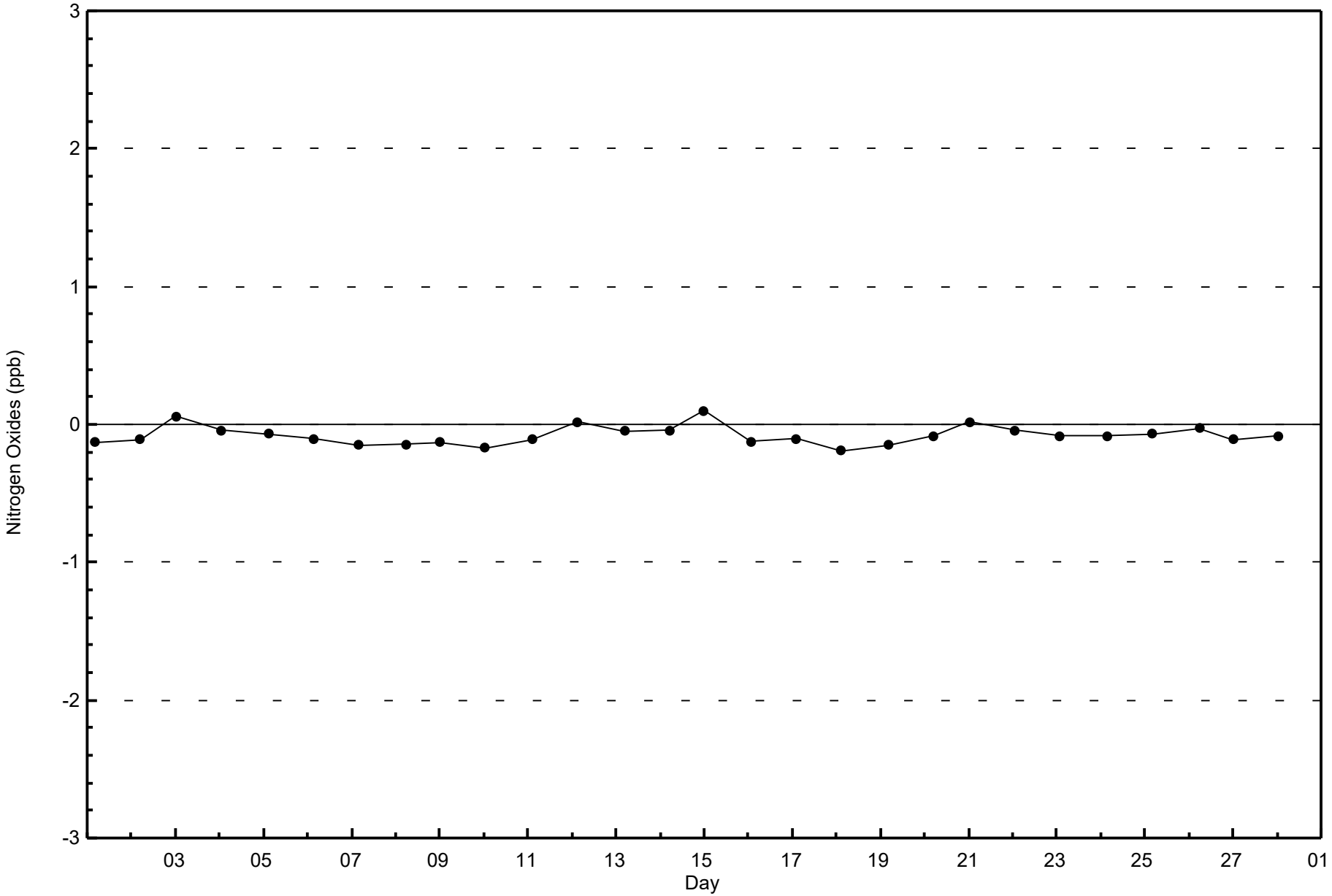
Total Number of Valid Hours: 637

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Athabasca Valley - February 2026

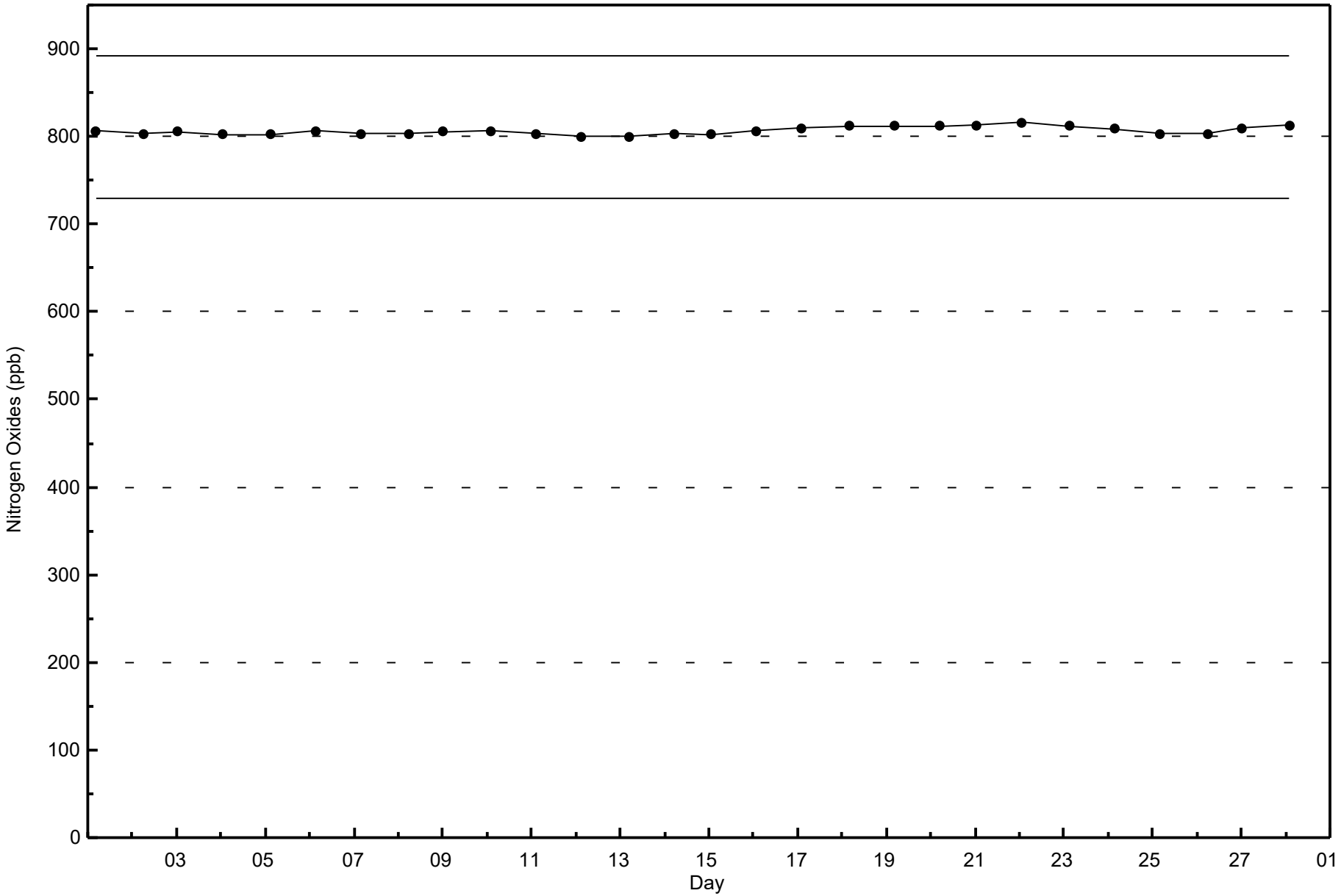


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Athabasca Valley - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Athabasca Valley - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 22.3 $\mu g/m^3$ on Feb 15 21:00

Maximum Daily Average: 10.1 $\mu g/m^3$ on Feb 15

Minimum Value: 1.4 $\mu g/m^3$ on Feb 13 01:00

Minimum Daily Average: 2.6 $\mu g/m^3$ on Feb 1

Maximum Diurnal Average: 6.1 $\mu g/m^3$ at hour 21

Minimum Diurnal Average: 4.2 $\mu g/m^3$ at hour 4

Monthly Average: 5.00 $\mu g/m^3$

Percentiles: P_1 = 2.0 P_{10} = 2.6 Q_1 = 3.1 Median = 4.2 Q_3 = 6.0 P_{90} = 8.4 P_{99} = 16.7

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	1
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	3.0	2.9	2.7	2.4	2.7	2.6	2.8	3.0	3.1	3.0	2.5	2.6	2.9	3.0	2.7	2.7	2.4	1.8	1.8	2.2	2.5	2.4	2.4	2.6	2.6	3.1
2-Feb	2.7	2.8	3.0	2.6	2.5	2.6	2.8	2.8	3.3	3.5	3.4	3.8	3.9	4.2	4.8	5.1	5.6	6.6	7.1	6.4	6.9	7.7	10.6	11.4	4.8	11.4
3-Feb	11.1	10.4	9.8	7.8	7.3	6.9	6.8	7.1	7.1	6.1	5.1	6.4	6.6	8.4	10.0	10.1	10.7	10.4	9.3	9.5	9.9	9.0	7.3	6.0	8.3	11.1
4-Feb	5.2	5.2	5.8	6.6	7.6	8.9	6.5	4.8	4.0	3.2	3.6	3.0	2.6	2.8	3.9	4.5	3.3	2.2	2.5	4.1	5.7	5.9	7.0	6.2	4.8	8.9
5-Feb	5.7	5.8	4.0	3.5	3.0	2.8	2.6	2.4	2.3	2.4	2.3	2.6	2.6	2.6	3.0	3.3	3.5	4.0	5.0	4.9	4.2	4.0	3.9	4.3	3.5	5.8
6-Feb	4.5	3.8	2.6	2.6	2.8	3.1	3.0	2.8	3.0	3.3	3.3	3.3	3.4	3.2	3.3	3.3	3.6	3.4	3.7	4.0	3.5	3.9	4.4	4.3	3.4	4.5
7-Feb	4.8	4.3	4.0	4.1	4.4	5.3	7.7	6.0	4.3	3.9	4.2	5.7	5.5	5.3	5.3	5.1	4.9	4.3	4.8	5.0	5.1	4.9	4.4	4.4	4.9	7.7
8-Feb	4.6	4.3	4.3	4.5	4.5	4.6	5.1	5.3	5.6	5.8	6.2	6.4	6.9	7.1	4.3	3.7	3.9	4.0	4.7	5.2	5.2	4.7	5.0	5.2	5.0	7.1
9-Feb	5.5	5.7	5.6	5.7	5.5	5.9	5.4	5.3	5.2	4.6	4.2	3.6	4.7	5.1	6.1	6.8	5.3	4.1	3.8	3.3	3.6	4.0	3.5	3.1	4.8	6.8
10-Feb	3.4	4.3	4.9	5.4	6.4	6.8	7.8	9.1	9.8	10.2	10.9	11.4	10.3	8.4	6.0	7.1	6.6	7.4	7.3	6.6	6.7	7.9	8.8	8.9	7.6	11.4
11-Feb	8.4	8.3	7.8	7.4	7.2	6.2	5.6	5.9	5.7	5.5	5.6	5.2	5.5	6.9	7.4	8.8	10.4	6.8	6.6	5.4	5.2	4.9	5.1	4.8	6.5	10.4
12-Feb	3.3	3.3	3.9	3.5	3.9	4.8	4.1	4.2	4.6	4.8	3.4	4.6	5.5	4.5	4.6	4.7	5.7	6.1	7.2	5.0	6.7	4.8	2.5	1.9	4.5	7.2
13-Feb	1.4	1.8	1.8	1.8	2.0	2.5	2.6	3.1	3.0	2.9	3.0	3.2	3.4	3.3	3.1	2.8	4.2	6.2	5.8	4.9	3.8	4.2	6.4	4.2	3.4	6.4
14-Feb	2.7	3.2	3.0	3.3	2.8	2.8	2.9	3.6	3.5	3.4	3.8	4.4	6.1	6.3	9.8	8.5	11.8	19.9	21.7	19.2	19.6	14.0	11.8	9.0	8.2	21.7
15-Feb	10.5	9.4	7.2	5.4	4.8	6.7	6.4	7.0	6.8	7.4	8.4	8.9	9.3	7.7	10.5	11.3	12.9	18.0	12.6	15.7	22.3	12.6	11.0	9.8	10.1	22.3
16-Feb	7.8	6.9	6.8	6.8	6.6	6.8	6.8	7.3	8.2	6.1	7.6	18.9	16.2	16.0	13.5	7.6	6.1	8.2	6.1	8.3	10.4	8.8	11.5	9.6	9.1	18.9
17-Feb	10.9	9.0	7.7	9.9	8.5	8.8	7.9	7.2	6.5	7.6	8.1	8.8	8.9	9.3	8.4	8.1	7.4	6.7	5.0	4.6	4.2	4.7	4.3	3.9	7.4	10.9
18-Feb	3.7	3.5	3.5	3.3	3.5	3.2	3.1	2.9	3.0	3.0	2.9	2.9	2.8	2.8	2.6	2.6	2.4	2.7	2.6	2.5	2.7	2.9	2.7	2.6	2.9	3.7
19-Feb	2.6	3.2	2.9	3.4	3.4	3.9	4.3	3.7	3.1	3.6	3.8	4.5	3.8	3.8	3.1	3.3	3.4	4.9	5.6	4.1	3.8	4.2	4.2	3.4	3.7	5.6
20-Feb	3.0	2.8	3.0	3.1	3.6	3.6	3.5	3.4	3.9	3.2	3.2	3.8	4.2	5.5	6.0	5.9	5.3	6.0	7.2	7.5	4.2	3.1	3.3	3.1	4.2	7.5
21-Feb	3.3	3.2	3.0	2.8	2.8	3.1	3.4	4.0	4.2	4.5	4.5	4.7	4.5	3.7	3.9	3.3	3.4	3.0	2.7	2.6	3.1	3.4	3.5	3.6	3.5	4.7
22-Feb	3.6	3.6	3.5	3.3	3.1	3.2	3.5	3.6	3.6	3.6	3.7	3.7	4.0	4.2	4.2	4.3	4.6	4.5	4.8	3.0	2.3	2.3	2.1	2.1	3.5	4.8
23-Feb	2.1	2.1	2.1	2.2	2.1	2.7	2.9	2.7	2.4	2.7	2.9	3.2	3.9	3.5	2.7	2.6	3.0	2.5	3.3	3.8	4.0	5.3	3.5	4.2	3.0	5.3
24-Feb	4.5	3.0	2.9	3.3	3.1	3.1	3.9	4.5	4.2	4.4	5.5	6.2	5.9	4.5	3.1	3.1	3.3	5.6	5.8	6.5	6.1	4.6	4.1	3.8	4.4	6.5
25-Feb	3.7	3.7	3.5	3.5	3.6	3.6	4.1	4.2	4.8	4.4	4.4	4.8	4.8	5.0	5.6	6.0	6.6	6.9	7.5	8.1	7.8	6.7	5.8	4.4	5.1	8.1
26-Feb	3.9	3.6	3.6	4.1	4.1	4.1	3.8	4.1	4.0	4.1	3.9	3.5	3.0	2.9	2.8	2.7	2.5	2.6	2.6	2.5	2.6	2.6	2.7	2.4	3.3	4.1
27-Feb	2.2	2.2	2.3	2.1	2.3	2.7	2.4	2.8	2.9	2.8	3.0	3.0	2.8	C	2.8	2.9	2.9	3.2	3.5	3.2	3.1	3.1	3.2	3.5	2.8	3.5
28-Feb	3.2	3.4	3.7	3.9	4.3	4.3	4.0	5.4	4.3	4.0	3.5	3.3	3.3	3.2	3.2	3.4	3.8	4.5	4.4	5.6	5.7	7.0	5.9	6.0	4.3	7.0
	4.7	4.5	4.3	4.2	4.2	4.5	4.5	4.6	4.5	4.4	4.5	5.2	5.3	5.3	5.2	5.1	5.3	6.0	5.9	5.9	6.1	5.5	5.4	5.0	Diurnal Average	
	11.1	10.4	9.8	9.9	8.5	8.9	7.9	9.1	9.8	10.2	10.9	18.9	16.2	16.0	13.5	11.3	12.9	19.9	21.7	19.2	22.3	14.0	11.8	11.4	Diurnal Maximum	

C - Calibration

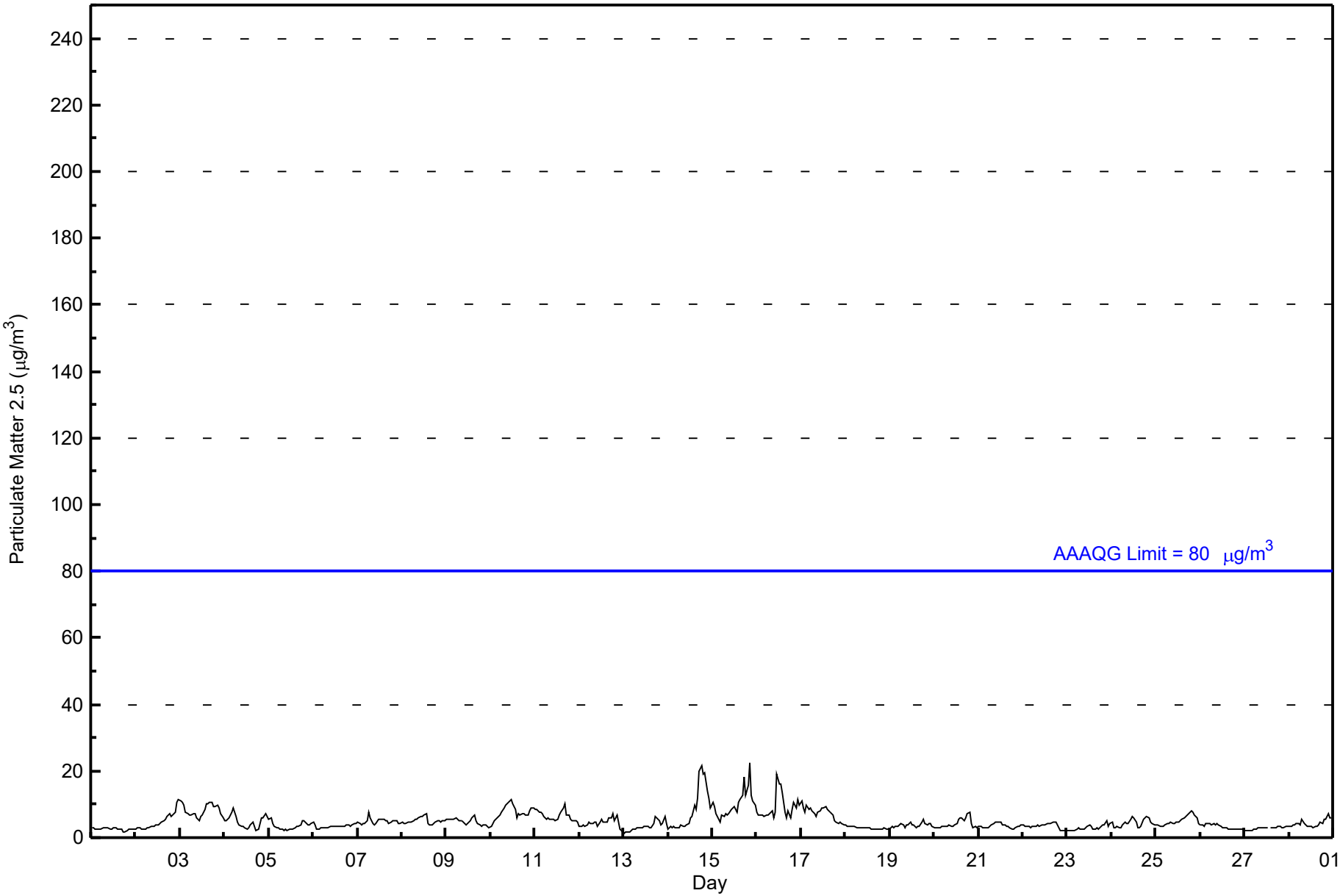
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Athabasca Valley - February 2026



Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	463	69.00	69.00
6 - 15	198	29.51	98.51
16 - 25	10	1.49	100.00
26 - 80	0	0.00	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 671

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Athabasca Valley - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	7	8	12	6	28	98	32	14	9	12	30	15	4	8	57	123	463
6 - 15	7	3	2	5	4	27	16	9	4	10	6	5	5	5	22	68	198
16 - 25	2	0	0	0	0	0	0	0	0	0	0	0	1	0	3	4	10
26 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	16	11	14	11	32	125	48	23	13	22	36	20	10	13	82	195	671

Total Number of Valid Hours: 671

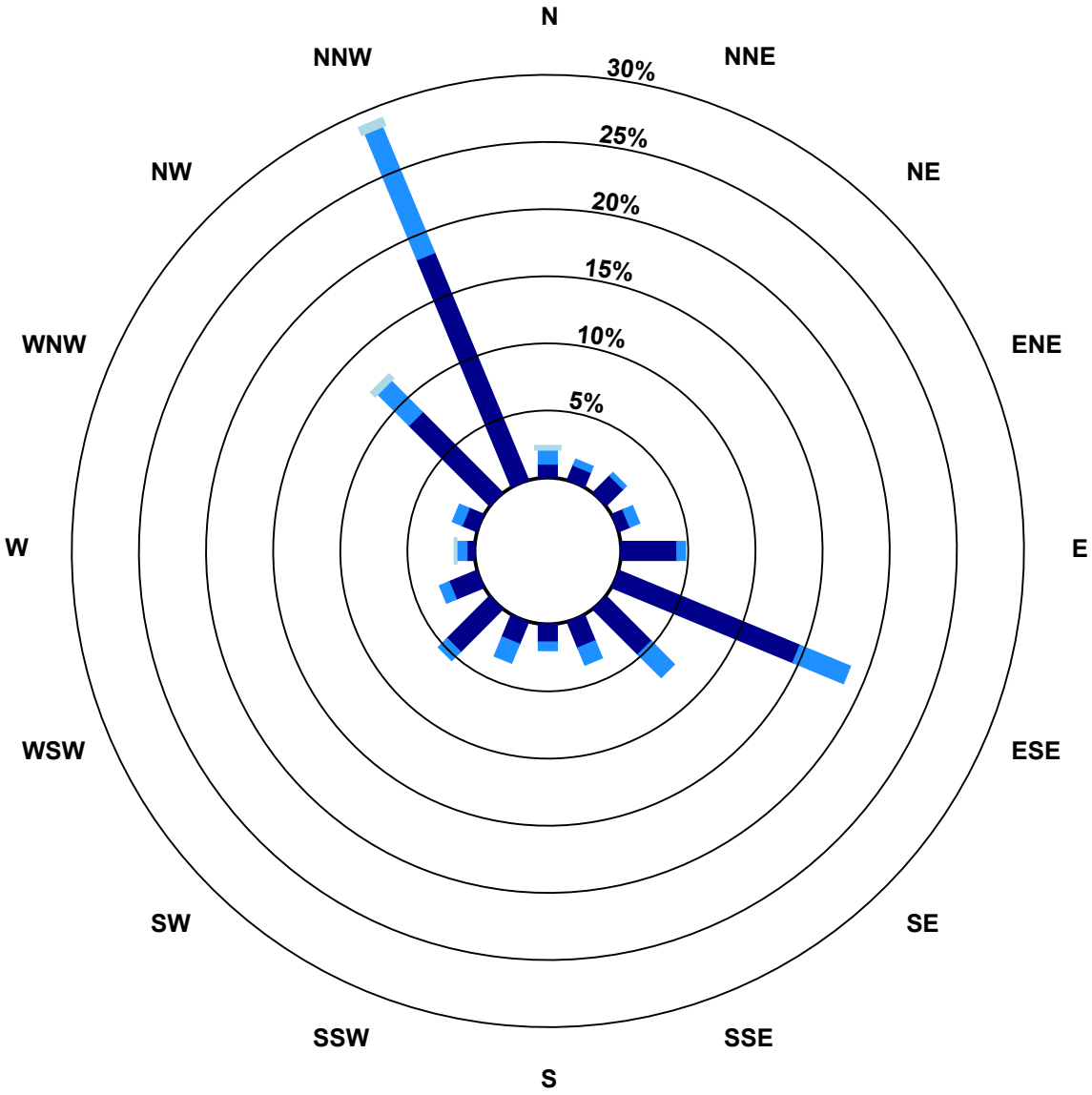
Total Number of Hours: 672

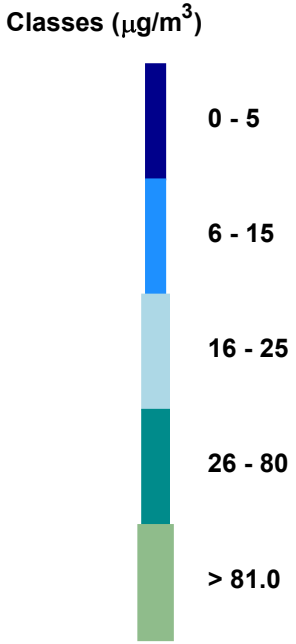
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Athabasca Valley





Total Number of Valid Hours: 671

Wood Buffalo Environmental Association

Summary of Hour Averages

Carbon Monoxide (CO) - ppm

Athabasca Valley - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 0.7 ppm on Feb 11 17:00 Maximum Daily Average: 0.3 ppm on Feb 12

Minimum Value: 0.1 ppm on Feb 18 07:00 Minimum Daily Average: 0.1 ppm on Feb 17
Maximum Diurnal Average: 0.2 ppm at hour 18 Minimum Diurnal Average: 0.1 ppm at hour 5
Monthly Average: 0.16 ppm Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.1 Median = 0.1 Q_3 = 0.2 P_{90} = 0.2 P_{99} = 0.4

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
3-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2
4-Feb	0.1	0.1	Z	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
5-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.2	0.2	0.2	0.2	C	C	C	C	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2
7-Feb	0.2	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
8-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2
11-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.7	0.4	0.4	0.3	0.4	0.3	0.3	0.2	0.3	0.7
12-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.5	0.3	0.1	0.1	0.3	0.5
13-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.3
14-Feb	Z	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3
15-Feb	0.2	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2
16-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2
17-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
19-Feb	0.1	0.1	0.1	0.2	0.1	Z	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.5
20-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2
21-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
22-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
23-Feb	0.2	0.1	0.2	Z	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3
24-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.4
25-Feb	0.3	0.3	0.2	0.3	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.3
26-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
27-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	M	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2
28-Feb	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	Diurnal Average	
	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.7	0.5	0.5	0.4	0.5	0.3	0.3	0.2	Diurnal Maximum	

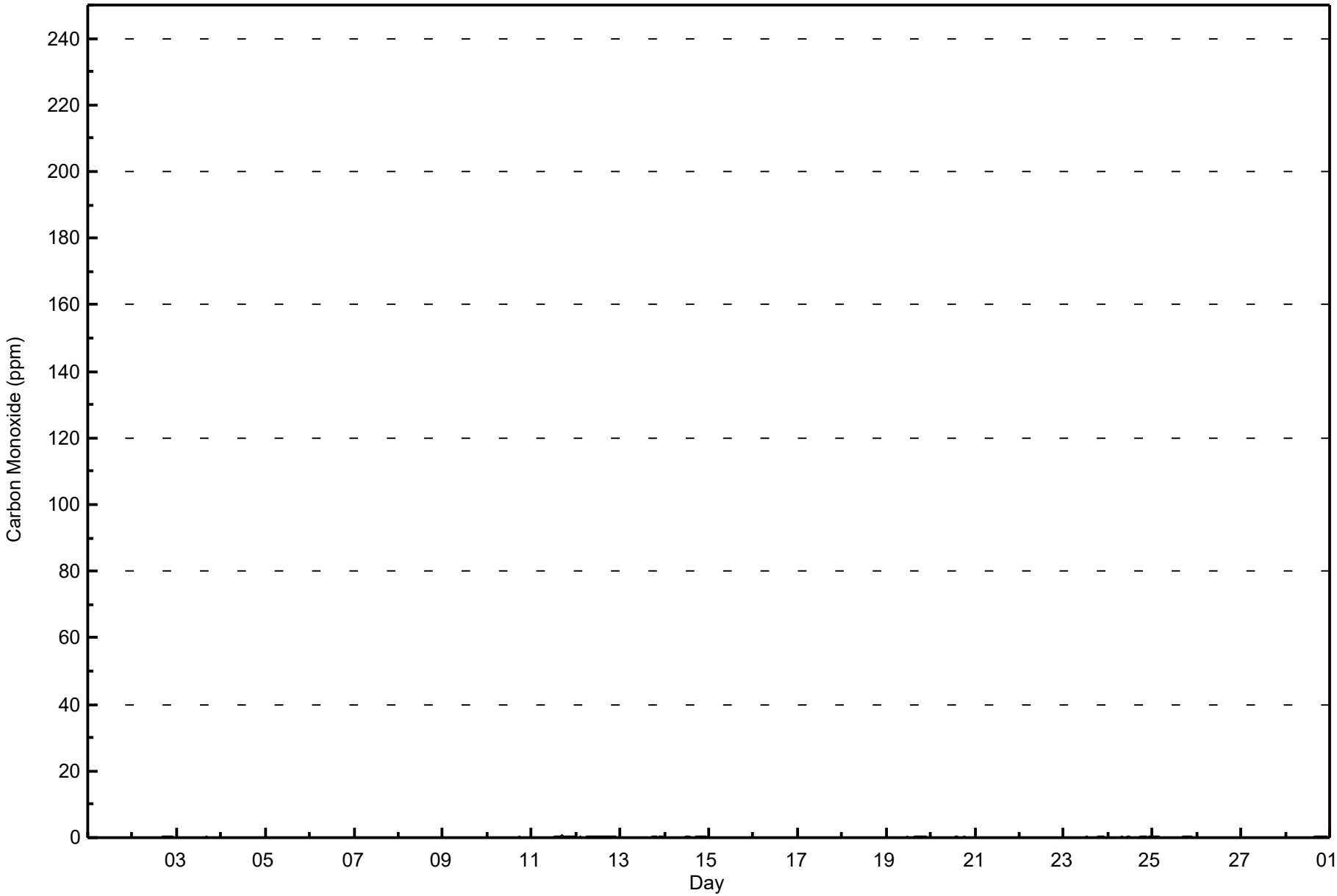
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 13 ppm

Wood Buffalo Environmental Association

Hourly Averages

Carbon Monoxide (CO) - ppm

Athabasca Valley - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.3	625	97.81	97.81
0.4 - 0.5	13	2.03	99.84
0.6 - 0.7	1	0.16	100.00
0.8 - 1.4	0	0.00	100.00
1.5 - 10	0	0.00	100.00
> 10	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Carbon Monoxide (CO) - ppm

Athabasca Valley - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.3	16	11	14	10	28	113	41	22	12	19	34	19	10	11	80	185	625
0.4 - 0.5	0	0	0	1	0	6	5	1	0	0	0	0	0	0	0	0	13
0.6 - 0.7	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
0.8 - 1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.5 - 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	16	11	14	11	28	119	47	23	12	19	34	19	10	11	80	185	639

Total Number of Valid Hours: 639

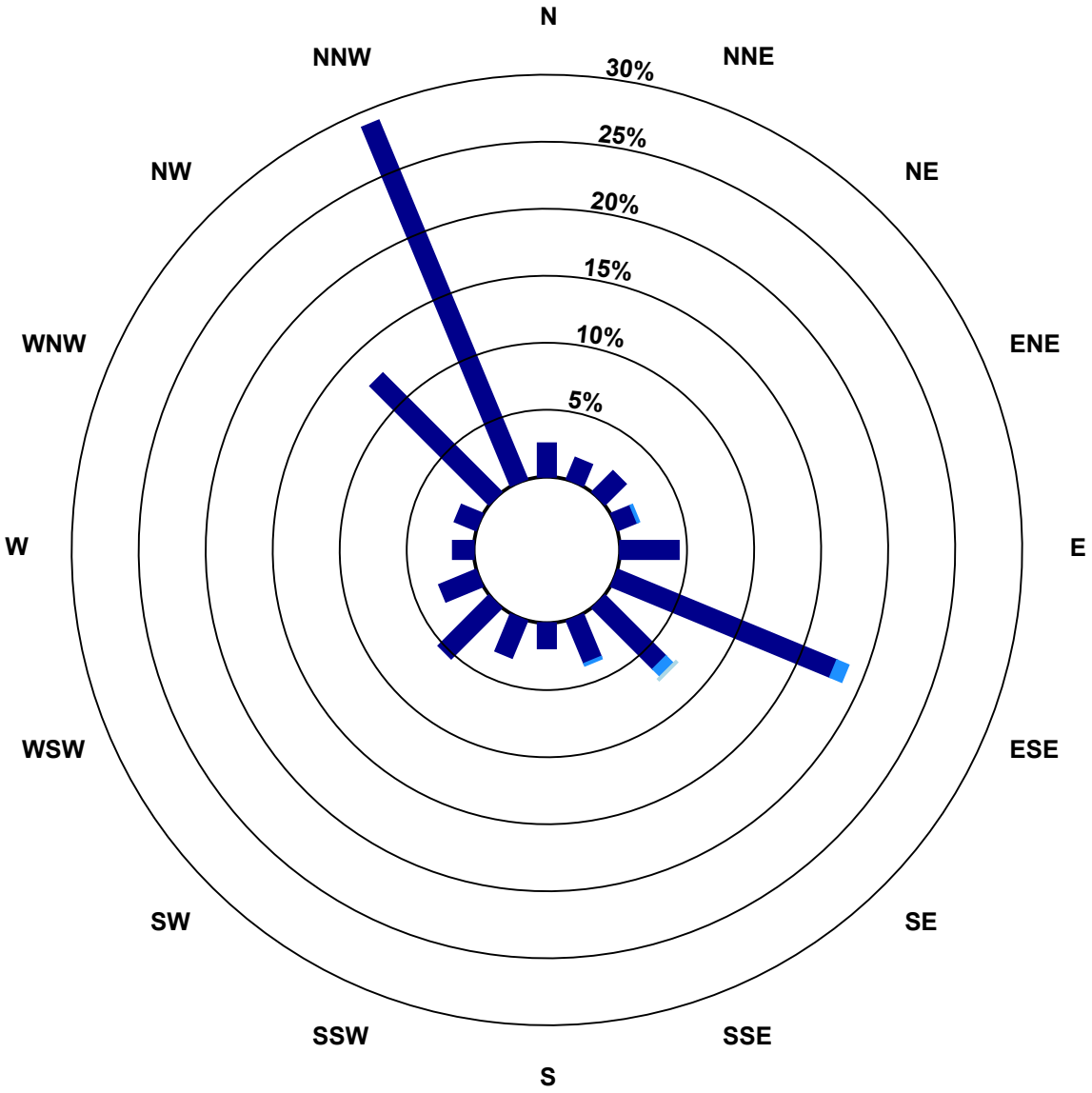
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Carbon Monoxide (CO) - ppm

Athabasca Valley



Classes (ppm)

0 - 0.3

0.4 - 0.5

0.6 - 0.7

0.8 - 1.4

1.5 - 10

> 10

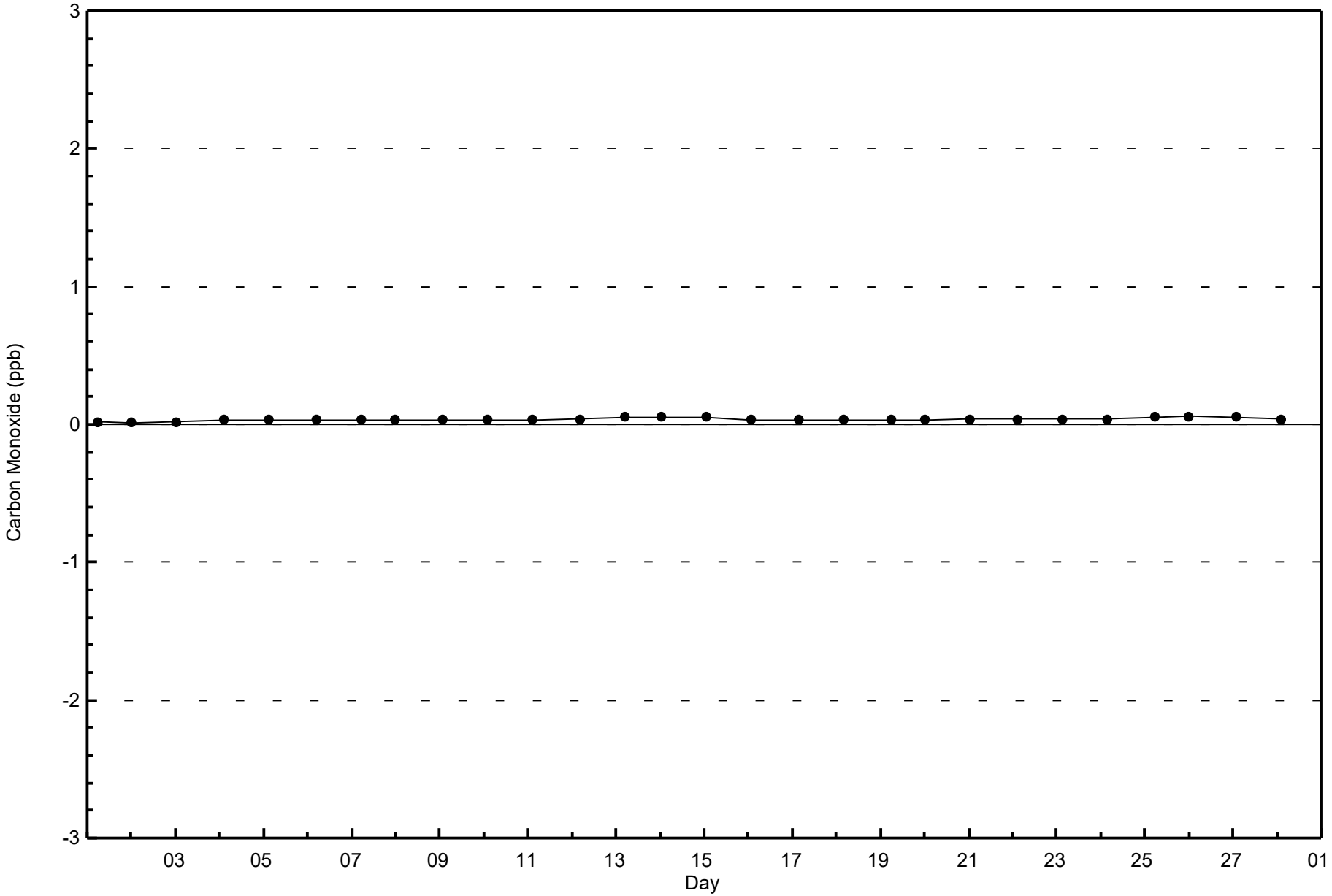
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Carbon Monoxide (CO) - ppb

Athabasca Valley - February 2026

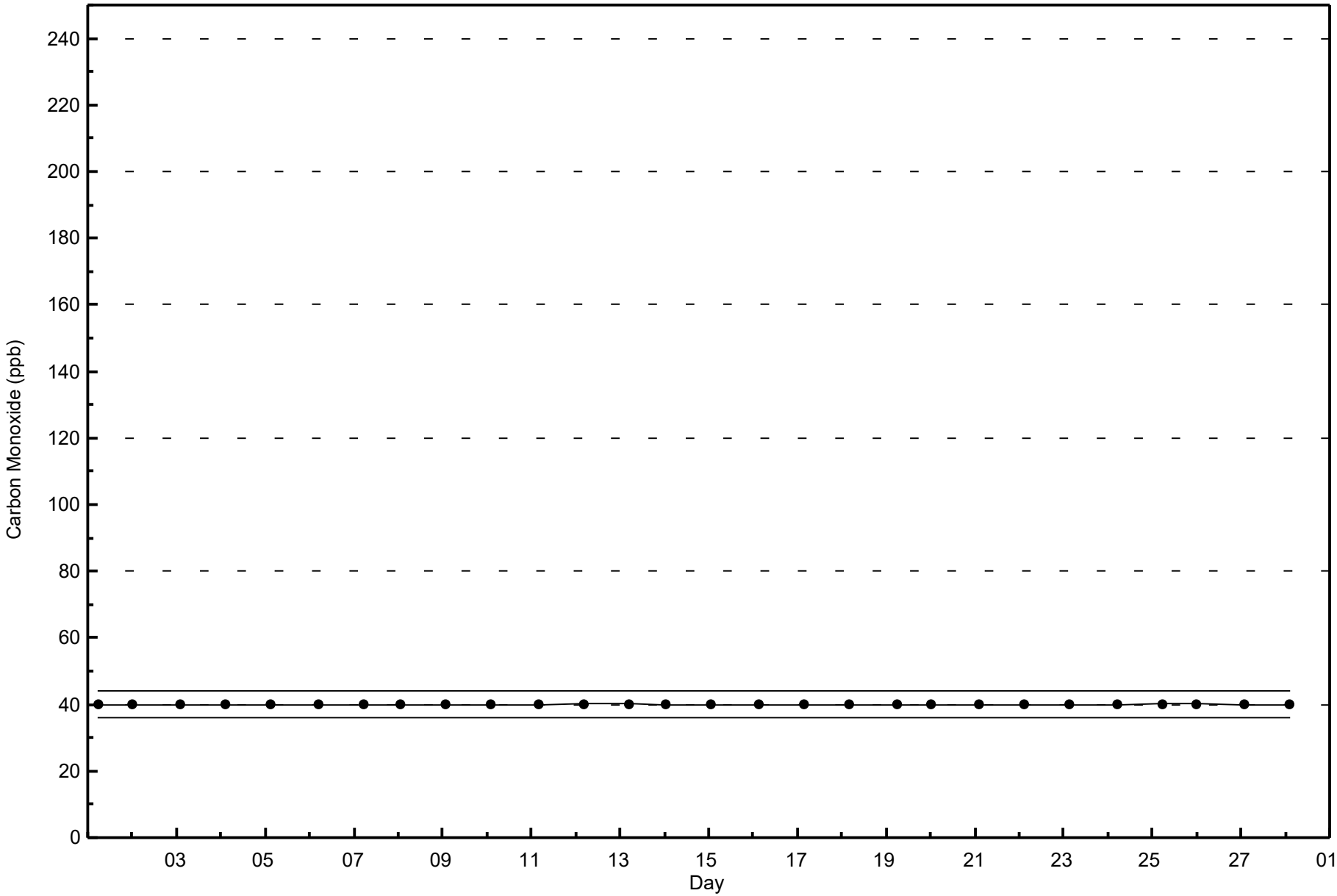


Wood Buffalo Environmental Association

Span Responses

Carbon Monoxide (CO) - ppb

Athabasca Valley - February 2026



Maximum Value: 10.6 C on Feb 4 16:00

Maximum Daily Average: 3.6 C on Feb 4

Minimum Value: -39.2 C on Feb 28 08:00

Minimum Daily Average: -29.5 C on Feb 18

Maximum Diurnal Average: -10.1 C at hour 16

Minimum Diurnal Average: -17.7 C at hour 8

Monthly Average: -14.51 C

Percentiles: P_1 = -38.0 P_{10} = -28.4 Q_1 = -22.1 Median = -13.3 Q_3 = -8.1 P_{90} = -2.1 P_{99} = 7.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

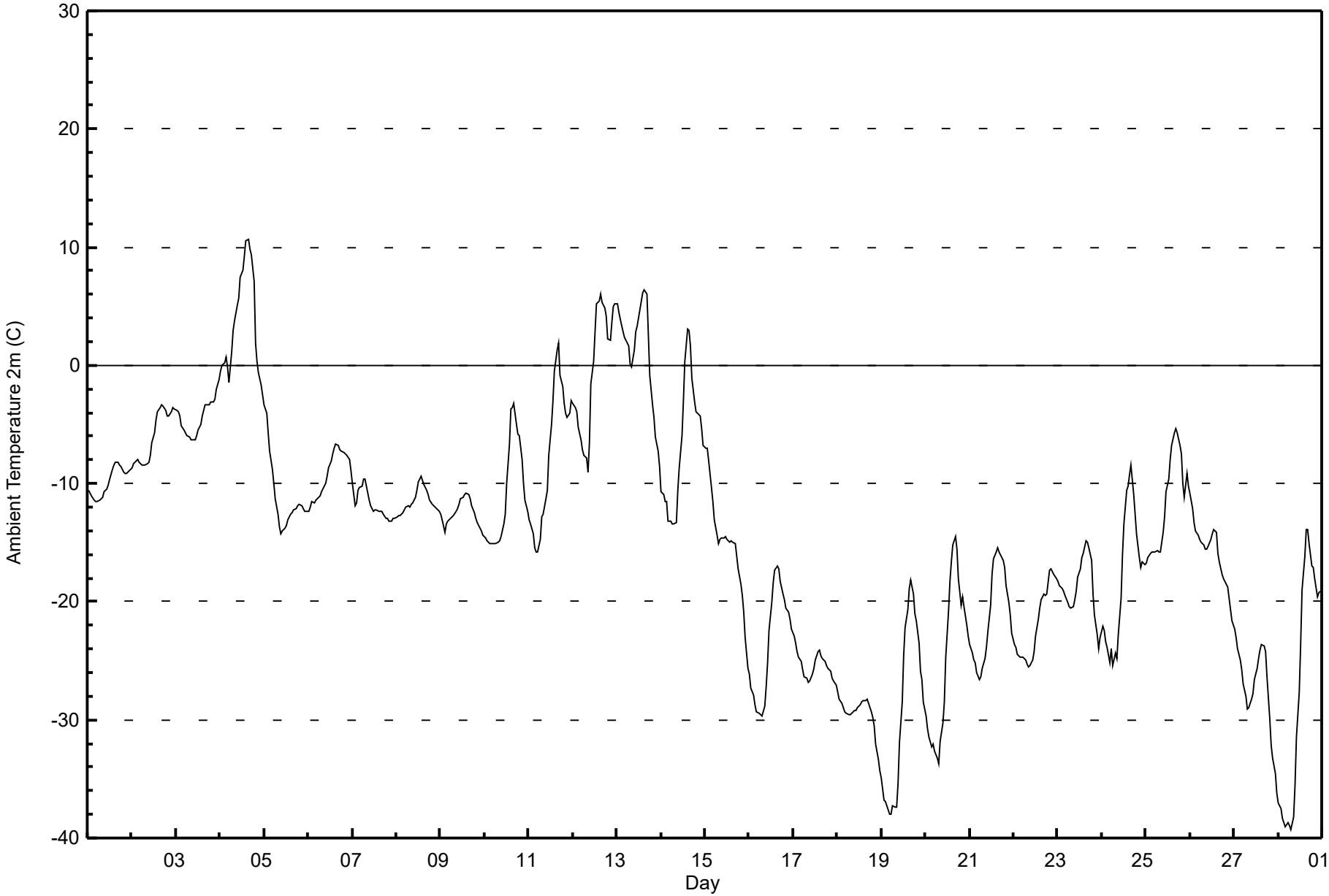
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-10.6	-10.8	-11.0	-11.5	-11.5	-11.5	-11.4	-11.3	-11.1	-10.7	-10.4	-10.1	-9.6	-8.8	-8.4	-8.2	-8.2	-8.5	-8.6	-9.0	-9.2	-9.1	-9.1	-8.8	-9.9	-8.2
2-Feb	-8.6	-8.3	-8.1	-8.0	-8.2	-8.4	-8.4	-8.4	-8.3	-8.2	-7.6	-6.6	-5.7	-4.6	-3.9	-3.6	-3.3	-3.5	-3.8	-4.3	-4.3	-4.0	-3.6	-3.7	-6.1	-3.3
3-Feb	-3.8	-4.0	-4.2	-5.1	-5.5	-5.8	-6.0	-6.1	-6.3	-6.3	-6.3	-5.9	-5.5	-5.0	-4.3	-3.9	-3.4	-3.3	-3.3	-3.1	-3.1	-2.8	-2.0	-1.2	-4.4	-1.2
4-Feb	-0.5	0.0	0.3	0.7	-0.1	-1.4	1.1	3.0	3.8	5.1	5.7	7.4	8.0	9.2	10.5	10.6	9.8	9.4	7.1	1.8	0.3	-0.6	-1.7	-2.5	3.6	10.6
5-Feb	-3.3	-4.0	-5.7	-7.3	-8.8	-10.0	-11.2	-12.6	-13.7	-14.2	-14.1	-13.8	-13.5	-13.0	-12.7	-12.4	-12.2	-12.1	-11.9	-11.7	-11.9	-12.1	-12.3	-12.4	-11.1	-3.3
6-Feb	-12.3	-12.0	-11.5	-11.6	-11.4	-11.3	-11.1	-10.7	-10.4	-10.0	-9.4	-8.7	-8.0	-7.5	-7.1	-6.6	-6.8	-7.1	-7.3	-7.4	-7.5	-7.6	-8.0	-8.9	-9.2	-6.6
7-Feb	-10.0	-11.9	-11.6	-10.5	-10.4	-10.2	-9.6	-9.6	-10.8	-11.4	-11.9	-12.3	-12.3	-12.2	-12.4	-12.4	-12.4	-12.7	-12.9	-13.0	-13.2	-13.2	-13.0	-13.0	-11.8	-9.6
8-Feb	-12.9	-12.8	-12.7	-12.5	-12.2	-12.0	-11.9	-12.0	-11.8	-11.6	-11.1	-10.6	-9.9	-9.4	-9.8	-10.1	-10.6	-11.0	-11.4	-11.8	-11.8	-12.0	-12.2	-12.4	-11.5	-9.4
9-Feb	-12.6	-13.1	-14.1	-13.4	-13.2	-12.9	-12.9	-12.8	-12.4	-12.2	-11.8	-11.3	-11.2	-10.9	-10.9	-10.9	-11.3	-11.9	-12.5	-12.9	-13.3	-13.8	-14.0	-14.4	-12.5	-10.9
10-Feb	-14.6	-14.8	-15.0	-15.1	-15.1	-15.1	-15.0	-14.9	-14.8	-14.5	-13.4	-12.6	-10.0	-6.7	-3.7	-3.6	-3.3	-4.9	-5.9	-6.0	-8.0	-10.0	-11.4	-12.4	-10.9	-3.3
11-Feb	-13.0	-13.4	-14.3	-15.4	-15.8	-15.8	-14.8	-12.8	-12.5	-11.3	-10.5	-7.6	-5.0	-3.0	-0.5	1.3	1.9	-0.8	-1.8	-3.2	-4.1	-4.4	-4.0	-3.0	-7.7	1.9
12-Feb	-3.2	-3.6	-3.9	-5.2	-6.4	-7.2	-7.6	-7.8	-9.1	-6.6	-1.6	0.4	2.8	5.2	5.4	6.1	5.4	4.8	4.2	2.2	2.1	3.7	5.0	5.2	-0.4	6.1
13-Feb	5.2	4.5	3.8	2.9	2.4	2.1	1.6	0.1	-0.1	1.3	2.8	3.3	4.7	5.4	6.2	6.4	6.0	2.6	-0.9	-3.3	-4.4	-6.0	-7.3	-8.6	1.3	6.4
14-Feb	-10.7	-10.9	-11.6	-11.5	-13.2	-13.2	-13.4	-13.4	-13.3	-10.6	-8.6	-5.9	-3.0	0.4	3.1	3.0	1.7	-1.0	-3.0	-4.0	-4.0	-4.3	-5.4	-6.8	-6.7	3.1
15-Feb	-7.0	-7.1	-8.1	-10.3	-11.5	-13.1	-14.4	-15.1	-14.8	-14.6	-14.6	-14.5	-14.7	-15.0	-14.9	-15.0	-15.0	-16.1	-17.2	-18.6	-19.5	-20.9	-23.0	-25.6	-15.0	-7.0
16-Feb	-26.1	-27.3	-27.8	-28.8	-29.4	-29.4	-29.5	-29.7	-28.8	-27.1	-25.1	-22.4	-20.0	-18.4	-17.3	-17.0	-17.2	-18.3	-19.3	-19.9	-20.5	-20.9	-21.5	-22.3	-23.5	-17.0
17-Feb	-23.0	-23.5	-24.2	-24.7	-25.0	-25.8	-26.3	-26.5	-26.8	-26.7	-26.1	-25.6	-25.0	-24.2	-24.1	-24.6	-24.8	-25.1	-25.5	-25.6	-25.9	-26.5	-26.7	-27.1	-25.4	-23.0
18-Feb	-27.7	-28.3	-28.6	-29.0	-29.3	-29.5	-29.6	-29.5	-29.4	-29.3	-29.2	-28.9	-28.7	-28.5	-28.4	-28.4	-28.3	-28.6	-29.3	-29.8	-30.5	-32.0	-33.4	-34.3	-29.5	-27.7
19-Feb	-34.9	-36.8	-36.9	-37.3	-38.0	-37.9	-37.3	-37.4	-37.4	-35.4	-31.9	-28.5	-24.6	-22.2	-20.6	-18.9	-18.1	-19.4	-21.0	-21.6	-23.5	-25.9	-26.7	-28.5	-29.2	-18.1
20-Feb	-29.7	-30.7	-31.5	-32.3	-32.0	-32.7	-33.2	-33.7	-31.8	-30.2	-28.4	-24.7	-20.8	-18.3	-16.6	-15.2	-14.5	-15.5	-18.0	-20.3	-19.6	-20.5	-22.0	-22.9	-24.8	-14.5
21-Feb	-23.6	-24.4	-24.9	-25.2	-26.0	-26.7	-26.3	-25.6	-24.8	-23.9	-22.6	-20.4	-17.7	-16.4	-15.8	-15.4	-15.8	-16.1	-16.5	-17.1	-18.6	-20.1	-21.2	-22.7	-21.1	-15.4
22-Feb	-23.6	-23.9	-24.5	-24.7	-24.7	-24.7	-24.9	-25.2	-25.5	-25.4	-25.0	-24.2	-22.9	-21.5	-20.5	-19.9	-19.3	-19.5	-19.3	-17.2	-17.2	-17.5	-17.7	-18.0	-22.0	-17.2
23-Feb	-18.3	-18.7	-18.9	-19.1	-19.4	-20.1	-20.5	-20.6	-20.4	-19.9	-19.1	-17.9	-17.2	-16.3	-15.9	-14.9	-15.0	-15.4	-16.5	-19.3	-21.2	-22.8	-24.0	-23.0	-18.9	-14.9
24-Feb	-22.1	-22.5	-23.3	-23.8	-25.1	-24.0	-25.4	-24.3	-24.9	-22.8	-19.7	-16.0	-13.4	-10.6	-10.2	-9.3	-8.5	-10.9	-12.6	-14.2	-16.2	-17.1	-16.7	-16.9	-17.9	-8.5
25-Feb	-16.8	-16.2	-15.9	-15.8	-15.8	-15.8	-15.7	-15.8	-15.8	-14.1	-12.8	-10.7	-9.6	-8.0	-6.8	-5.7	-5.4	-5.7	-6.8	-7.5	-10.0	-11.1	-9.2	-10.2	-11.6	-5.4
26-Feb	-10.8	-12.1	-13.3	-14.0	-14.4	-14.7	-15.0	-15.2	-15.6	-15.6	-15.3	-14.8	-14.3	-13.9	-14.2	-16.0	-16.6	-17.7	-18.1	-18.3	-18.8	-19.7	-20.6	-21.6	-15.9	-10.8
27-Feb	-22.3	-23.1	-24.0	-24.9	-25.8	-26.9	-28.0	-29.1	-28.9	-28.2	-27.8	-26.6	-25.6	-24.8	-24.1	-23.7	-23.8	-24.2	-26.3	-29.9	-32.2	-33.2	-34.5	-36.3	-27.3	-22.3
28-Feb	-37.1	-37.5	-38.3	-38.7	-39.0	-38.7	-38.9	-39.2	-38.3	-35.5	-31.4	-27.7	-23.6	-19.0	-16.2	-13.9	-13.9	-15.1	-17.0	-17.1	-18.1	-19.6	-19.2	-19.1	-27.2	-13.9
	-15.5	-16.0	-16.4	-16.9	-17.3	-17.6	-17.7	-17.7	-17.6	-16.8	-15.6	-14.2	-12.7	-11.4	-10.5	-10.1	-10.1	-11.0	-12.0	-12.9	-13.7	-14.4	-14.8	-15.4	Diurnal Average	
	5.2	4.5	3.8	2.9	2.4	2.1	1.6	3.0	3.8	5.1	5.7	7.4	8.0	9.2	10.5	10.6	9.8	9.4	7.1	2.2	2.1	3.7	5.0	5.2	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Athabasca Valley - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	193	28.72	28.72
-20 - 0	426	63.39	92.11
0 - 10	51	7.59	99.70
10 - 20	2	0.30	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 30.1 inHg on Feb 22 02:00

Maximum Daily Average: 29.9 inHg on Feb 21

Minimum Value: 28.5 inHg on Feb 25 06:00

Minimum Daily Average: 28.5 inHg on Feb 25

Maximum Diurnal Average: 29.1 inHg at hour 10

Minimum Diurnal Average: 29.1 inHg at hour 17

Monthly Average: 29.11 inHg

Percentiles: P_1 = 28.5 P_{10} = 28.8 Q_1 = 28.9 Median = 29.1 Q_3 = 29.3 P_{90} = 29.5 P_{99} = 30.0

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

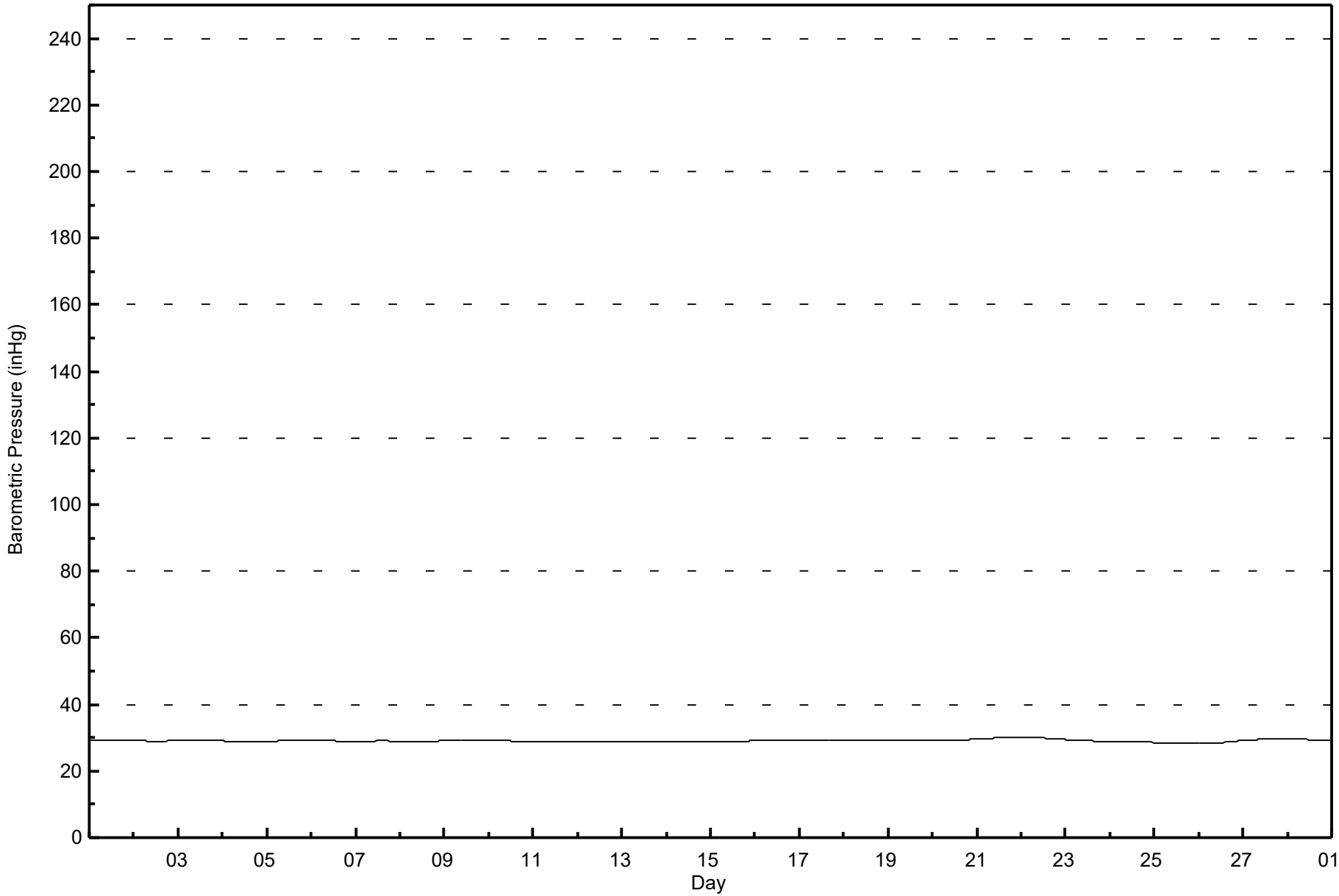
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.3
2-Feb	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.0	29.1
3-Feb	29.2	29.2	29.2	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.3	29.3	29.2	29.2	29.2	29.1	29.3	29.4
4-Feb	29.0	29.0	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	28.9	29.0
5-Feb	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.2	29.4
6-Feb	29.4	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.1	29.4
7-Feb	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	28.9	29.0	29.0
8-Feb	28.9	28.9	28.9	28.9	28.9	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	28.9	29.1
9-Feb	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.2
10-Feb	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.2
11-Feb	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.9
12-Feb	28.8	28.8	28.8	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.8	28.8	28.7	28.7	28.7	28.8	28.8	28.8	28.9
13-Feb	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.9	28.8	28.8	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.8	28.9
14-Feb	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.9	28.9
15-Feb	28.8	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.1	28.9	29.1
16-Feb	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.2	29.3
17-Feb	29.3	29.3	29.3	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
18-Feb	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
19-Feb	29.4	29.4	29.4	29.4	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.4
20-Feb	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.4	29.4	29.5	29.5	29.5	29.6	29.3	29.6
21-Feb	29.6	29.6	29.7	29.7	29.8	29.8	29.8	29.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.1	30.1	29.9	30.1
22-Feb	30.1	30.1	30.1	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.9	29.9	29.8	29.8	29.8	29.7	29.7	29.7	29.6	29.6	29.5	29.5	29.5	29.8	30.1
23-Feb	29.4	29.4	29.4	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	29.1	29.4
24-Feb	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.8	28.7	28.7	28.7	28.7	28.7	28.7	28.6	28.6	28.6	28.8	28.9
25-Feb	28.6	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.6	28.6	28.6	28.5	28.6
26-Feb	28.6	28.6	28.6	28.6	28.6	28.6	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.6	28.7	28.7	28.8	28.9	28.9	29.0	29.0	29.1	29.2	28.7	29.2
27-Feb	29.2	29.2	29.3	29.3	29.3	29.4	29.4	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.4	29.5
28-Feb	29.6	29.6	29.6	29.6	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.4	29.4	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.4	29.6
	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	Diurnal Average	
	30.1	30.1	30.1	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.9	29.9	29.9	29.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.1	30.1	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Barometric Pressure (BP) - inHg

Athabasca Valley - February 2026



Maximum Value: 92.5 % on Feb 2 23:00

Maximum Daily Average: 82.5 % on Feb 2

Minimum Value: 32.7 % on Feb 13 16:00

Minimum Daily Average: 49.1 % on Feb 13

Maximum Diurnal Average: 74.9 % at hour 8

Minimum Diurnal Average: 60.9 % at hour 16

Monthly Average: 70.64 %

Percentiles: P_1 = 41.7 P_{10} = 54.6 Q_1 = 64.0 Median = 72.2 Q_3 = 79.1 P_{90} = 83.6 P_{99} = 89.1

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

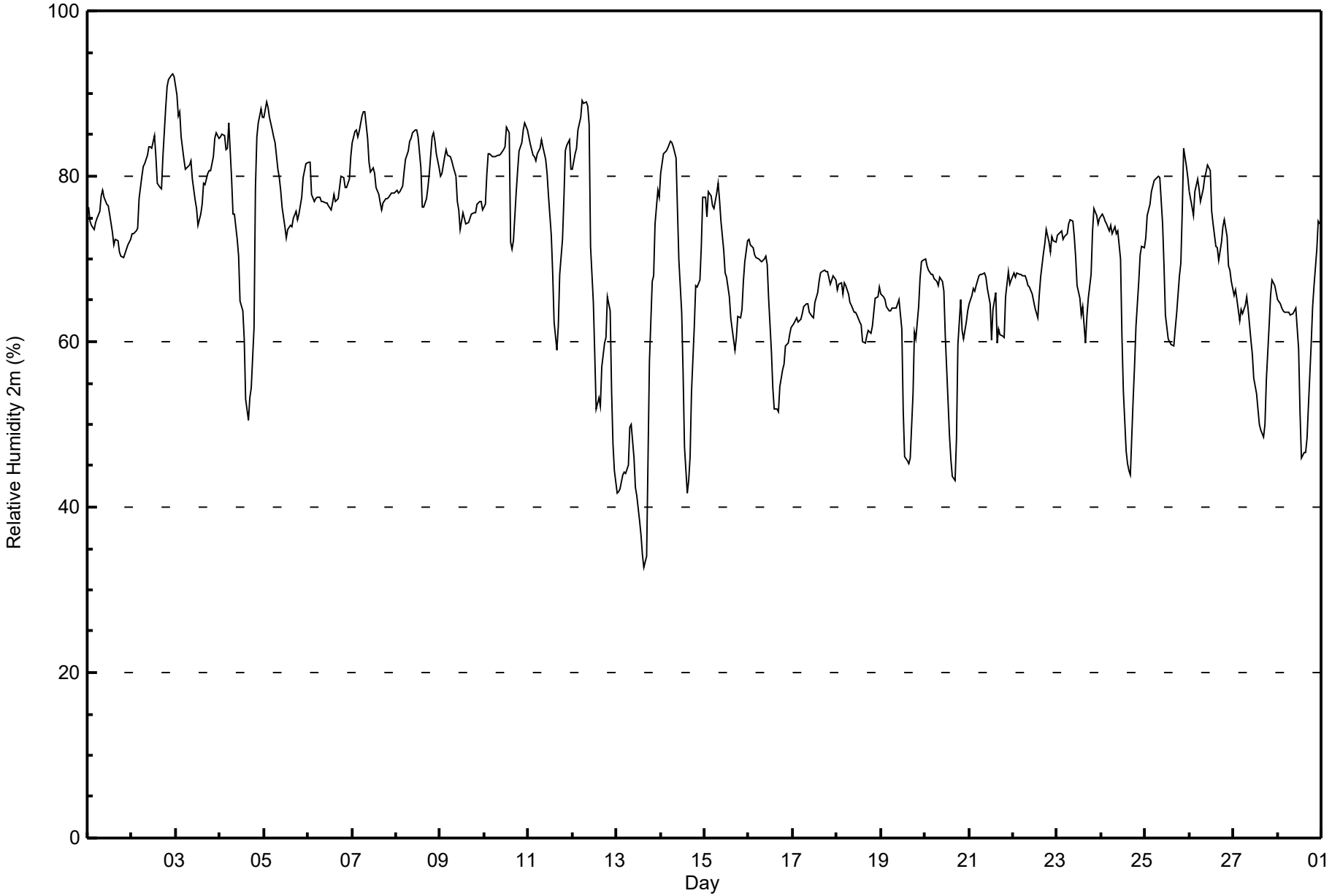
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	76.2	74.5	74.0	73.6	74.5	74.9	75.8	77.6	78.3	77.4	76.6	76.4	75.4	73.3	71.6	72.5	72.2	70.9	70.3	70.2	70.7	71.2	71.8	72.4	73.8	78.3
2-Feb	73.1	73.0	73.3	73.8	77.4	80.1	81.1	81.6	82.5	83.6	83.5	83.4	84.9	82.4	79.2	78.7	78.4	82.3	88.3	90.8	91.8	92.2	92.5	92.0	82.5	92.5
3-Feb	89.9	87.3	87.8	84.8	82.0	80.9	81.0	81.3	81.9	79.7	77.0	76.2	74.1	75.4	76.7	79.2	79.0	80.3	80.6	80.7	82.4	84.6	85.3	84.5	81.3	89.9
4-Feb	84.8	85.0	85.0	83.2	83.4	86.4	79.6	75.4	75.4	72.4	70.4	64.9	63.7	60.4	53.1	50.5	53.2	54.4	61.7	78.7	84.8	86.5	88.1	87.2	73.7	88.1
5-Feb	87.2	89.0	88.3	87.1	85.6	84.7	84.0	80.8	79.8	78.3	76.3	73.9	72.6	73.5	74.0	74.0	74.9	75.8	74.8	75.4	77.5	79.8	80.7	81.5	79.6	89.0
6-Feb	81.7	81.8	77.9	77.0	77.2	77.5	77.4	77.0	76.9	76.7	76.7	76.4	76.0	76.8	77.8	77.0	77.2	78.6	80.0	79.9	78.7	78.7	79.6	82.3	78.2	82.3
7-Feb	84.0	85.5	85.6	84.8	85.5	87.3	87.8	87.8	84.6	81.8	80.6	81.0	80.4	78.7	77.8	76.7	76.0	76.8	77.2	77.3	77.5	77.9	78.0	78.0	81.2	87.8
8-Feb	78.3	78.0	78.2	78.8	80.5	82.0	83.0	84.2	84.6	85.2	85.6	85.5	84.7	81.0	76.3	76.2	77.2	78.6	80.4	84.8	85.3	84.2	82.7	81.1	81.5	85.6
9-Feb	80.1	80.4	82.3	83.2	82.6	82.4	81.8	81.1	80.0	77.0	76.0	73.6	75.6	75.0	74.2	74.4	74.9	75.4	75.6	75.6	76.7	77.0	76.9	76.0	77.8	83.2
10-Feb	76.6	80.1	82.6	82.6	82.4	82.4	82.4	82.5	82.6	82.7	83.3	83.6	86.0	85.3	72.0	71.2	72.3	78.1	80.6	83.0	84.2	85.5	86.4	85.6	81.4	86.4
11-Feb	84.7	83.8	82.5	82.4	81.9	82.8	83.4	84.5	83.6	82.0	80.4	77.7	72.9	68.3	62.4	59.0	61.8	68.1	72.4	77.3	83.0	83.8	84.4	80.9	77.7	84.7
12-Feb	80.9	82.7	83.4	85.6	87.1	89.1	88.9	89.0	88.5	86.3	71.5	64.7	58.6	51.9	53.3	52.2	56.9	59.9	60.6	65.5	63.8	54.0	47.6	44.5	69.4	89.1
13-Feb	41.8	41.9	42.2	43.9	44.3	44.1	45.0	49.6	50.1	45.9	42.4	41.4	38.3	36.6	34.3	32.7	34.0	45.9	57.6	67.3	67.9	74.3	78.2	77.5	49.1	78.2
14-Feb	80.4	82.7	82.8	83.0	83.4	84.3	84.1	83.5	82.2	75.9	69.8	63.5	56.2	47.2	41.7	43.2	46.1	54.0	61.9	66.8	66.5	67.5	71.5	77.4	69.0	84.3
15-Feb	77.5	75.1	78.2	77.6	76.4	76.1	78.0	79.2	77.1	74.6	71.0	68.3	67.9	65.4	62.8	61.5	59.0	60.6	63.1	63.0	63.9	67.3	69.7	72.1	70.2	79.2
16-Feb	72.4	71.8	71.3	70.6	70.2	70.1	69.9	69.7	70.0	70.4	69.4	65.2	58.9	54.5	51.9	51.8	51.4	54.5	56.6	57.4	59.4	59.8	60.8	61.8	63.3	72.4
17-Feb	62.2	62.6	62.8	62.4	62.8	63.4	64.2	64.6	64.6	63.5	63.1	62.9	64.7	65.9	67.3	68.3	68.5	68.6	68.5	68.4	66.9	67.5	67.9	67.5	65.4	68.6
18-Feb	66.3	67.0	67.1	65.8	67.1	66.9	65.7	64.7	64.5	63.5	63.6	63.3	62.3	62.1	59.9	59.8	60.7	61.4	61.0	61.8	63.6	65.3	65.5	66.5	64.0	67.1
19-Feb	65.8	65.5	65.0	64.2	63.8	63.7	64.1	64.1	64.0	64.6	65.0	61.5	51.6	46.1	45.5	45.3	45.9	53.7	61.3	60.4	64.3	67.6	69.7	69.9	60.5	69.9
20-Feb	69.9	69.2	68.6	68.2	68.1	67.7	67.3	66.8	67.8	67.2	66.1	60.7	52.7	48.7	45.8	43.7	43.3	48.4	59.7	65.2	61.4	60.3	62.3	63.7	60.9	69.9
21-Feb	64.6	65.6	66.5	66.1	66.8	68.0	68.1	68.1	68.4	67.8	66.4	64.7	60.1	63.9	65.9	59.9	61.5	60.9	60.7	60.4	65.4	68.5	67.0	67.4	65.1	68.5
22-Feb	68.4	67.8	68.3	68.2	68.2	68.0	67.9	67.5	66.7	66.6	65.7	64.9	64.1	62.9	65.6	67.9	70.6	71.8	73.5	72.0	70.8	72.7	72.2	72.0	68.5	73.5
23-Feb	72.9	73.1	73.4	72.4	72.8	73.1	74.2	74.7	74.6	72.7	70.2	66.7	65.2	63.2	64.2	59.9	63.0	65.3	68.1	73.2	76.1	75.2	74.3	74.9	70.6	76.1
24-Feb	75.3	75.0	74.6	74.3	73.4	74.1	73.1	73.8	73.1	73.5	70.1	60.6	54.0	46.7	45.3	44.4	44.0	53.1	57.1	61.8	67.3	70.5	71.5	71.3	64.9	75.3
25-Feb	72.5	75.2	76.6	78.2	78.7	79.4	79.8	80.1	79.8	74.3	69.2	63.2	60.3	60.0	59.6	59.6	61.6	63.4	68.0	69.4	75.6	83.4	81.2	79.9	72.0	83.4
26-Feb	78.1	76.3	75.3	78.1	79.7	78.5	77.0	78.5	79.8	80.5	81.3	80.7	75.8	74.2	71.5	71.4	69.8	72.1	73.8	74.7	72.7	69.2	68.7	67.2	75.2	81.3
27-Feb	65.6	66.3	65.1	62.6	63.9	63.4	64.4	65.4	63.9	60.2	58.4	55.6	53.8	51.9	50.1	49.3	48.4	50.0	55.3	62.0	65.5	67.4	66.8	65.9	60.1	67.4
28-Feb	65.0	64.5	64.0	63.7	63.5	63.6	63.5	63.3	63.4	63.8	64.0	59.2	51.5	45.9	46.7	46.6	48.3	52.2	59.9	64.3	66.7	71.2	74.6	74.2	61.0	74.6
	74.1	74.3	74.4	74.1	74.4	74.8	74.7	74.9	74.6	73.2	71.2	68.6	65.8	63.5	61.7	60.9	61.8	64.8	68.2	71.0	72.5	73.7	74.1	74.1	Diurnal Average	
	89.9	89.0	88.3	87.1	87.1	89.1	88.9	89.0	88.5	86.3	85.6	85.5	86.0	85.3	79.2	79.2	79.0	82.3	88.3	90.8	91.8	92.2	92.5	92.0	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Athabasca Valley - February 2026



Maximum Speed: 29 km/h on Feb 26 16:00

Maximum Daily Speed Average: 22.6 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 9 09:00

Minimum Daily Speed Average: 1.2 km/h on Feb 10

Maximum Diurnal Speed Average: 4.3 km/h at hour 14

Minimum Diurnal Speed Average: 2.8 km/h at hour 19

Monthly Average Velocity: 3.4 km/h 338.6 deg

Percentiles: P_1 = 1 P_{10} = 2 Q_1 = 5 Median = 8 Q_3 = 12 P_{90} = 18 P_{99} = 25

Hours in Service: 672

Hours of Data: 672

Hours of Missing Data: 0

Percent Operational Time: 100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE7	ENE8	E7	E7	E7	E7	E6	E8	E11	ESE17	ESE15	ESE16	ESE13	ESE14	ESE14	ESE13	ESE13	ESE13	ESE15	ESE12	ESE11	ESE11	ESE13	ESE9	E10.7	ESE17
2-Feb	ESE8	ESE9	SE7	SE8	SE8	ESE11	ESE11	ESE10	ESE12	ESE12	ESE10	ESE8	ESE7	ESE5	SE6	E6	ESE5	ESE5	ESE4	ENE3	NNE1	NW5	NNW6	NW7	ESE5.7	ESE12
3-Feb	NW8	NW8	NNW10	NW11	NW10	NNW7	NNW7	N4	NNW7	NNW6	NNW5	NNW5	NNW2	NNE3	SE5	SE6	ESE5	ESE10	ESE11	SE13	ESE11	ESE8	ESE10	ESE12	NE1.7	ESE13
4-Feb	ESE11	ESE14	ESE16	SE15	SSE8	SSW5	SW17	SW22	SW12	WSW13	SW8	SW11	SW22	SW15	WSW16	WSW17	WSW14	WSW17	W16	NNW22	NNW16	NW17	NW14	NW17	WSW7.2	NNW22
5-Feb	NW17	NW20	NW20	NW22	NW24	NW24	NNW21	NW22	NNW17	NNW17	NNW12	NW12	NW12	NNW7	N5	NW5	NNE4	NE4	ESE3	NE5	NNW5	NNW5	NNW6	NNW5	NNW11.7	NW24
6-Feb	NNW5	NNW2	ESE5	E8	E9	E9	E9	ESE11	E10	ESE11	ESE11	E10	E11	ESE12	ESE12	E10	ESE10	ENE7	E4	ESE5	ESE9	SE7	SE4	WNW1	ESE7.3	ESE12
7-Feb	S2	WSW4	SW2	SW5	WSW3	SW6	W4	NW15	NW17	NW18	NNW14	NNW12	NNW12	NNW13	NW13	NNW14	NNW10	NNW12	NNW11	NNW10	NNW9	NNW10	NNW10	NNW12	NW8.6	NW18
8-Feb	NNW12	NW12	NW9	NNW8	NNW10	NNW12	NNW9	NW9	NW10	NNW6	NNW3	NNW7	NNW8	NNW12	NNW12	NNW12	NNW12	NNW10	NNW11	NW9	NW7	NNW5	NW7	NNW5	NNW9.0	NNW12
9-Feb	N3	WNW2	NNW1	NNW3	N3	N3	NNE3	N5	N0	N4	NNW7	NNW9	NNW10	NNW12	NNW10	NNW11	NNW13	NW14	NNW11	NW10	NNW12	NNW10	NW10	NW12	NNW7.3	NW14
10-Feb	NNW10	NW11	NW9	NNW9	NNW9	NNW6	NNW6	NNW6	NNW5	NNW6	NNW4	W3	WNW2	SE3	SE9	SSE6	SSE7	S5	S6	SE9	SSE7	SSW8	SSW8	SSW8	W1.2	NW11
11-Feb	SSW8	SSW8	SSW7	SSW6	SE2	E4	E6	ESE8	ESE9	ESE10	ESE8	ESE10	ESE12	E5	ESE6	ENE3	SE6	ESE8	SE7	SE4	SSE3	SSE2	SE5	ESE9	SE5.3	ESE12
12-Feb	ESE11	ESE5	ESE6	ESE6	ESE7	ESE8	ESE9	ESE8	ESE5	ESE7	SE11	SE8	ESE5	SE3	ESE3	SE7	ESE7	ESE7	ESE9	ESE8	ESE8	SSE7	SW11	SW13	SE6.3	SW13
13-Feb	SW19	SW19	SW19	SW20	SW17	SW17	SW15	W2	SW13	SW19	SW9	SSW8	SW11	SSW13	SW11	SW11	SW6	S3	SW1	E1	SSW3	SSE2	SSE2	S2	SW9.8	SW20
14-Feb	SSW3	SSE1	SE1	SSE2	SSE3	SE4	ESE4	SE5	ESE4	SE8	SE7	ESE8	ENE5	ENE3	SE1	S3	WNW3	NNW3	W1	NW7	NNW2	SSW0	SSE1	SSW2	SE1.6	SE8
15-Feb	NW11	NNW6	NNW13	NNW15	NNW12	NNW14	NNW9	NW6	NNW8	NNW11	NNW12	NNW12	NNW13	NNW13	NNW11	NNW11	NNW8	N6	NNW7	NNW9	N5	NNE2	WSW2	SW6	NNW8.9	NNW15
16-Feb	SW5	WSW6	SW5	WSW6	WSW6	WSW2	W2	SW3	NE3	NE4	NNW4	NNW6	NW5	NW5	NW7	NNW9	NNW10	N9	NNW11	NNW12	NW18	NNW15	NW18	NNW19	NW6.2	NNW19
17-Feb	NNW20	NNW21	NNW20	NNW19	NNW22	NNW21	NNW23	NNW23	NNW25	NNW26	NNW25	NNW29	NNW24	NNW23	NNW26	NNW24	NNW23	NNW22	NNW21	NNW21	NNW22	NNW23	NNW21	NNW21	NNW22.6	NNW29
18-Feb	NNW21	NNW21	NNW23	NNW22	NNW20	NNW18	NNW20	NNW18	NNW19	NNW20	NNW21	NW21	NW22	NW24	NW20	NW20	NNW16	NW13	WNW11	NW8	NW3	SW5	SSW4	S4	NNW15.4	NW24
19-Feb	S3	SSE2	SSW3	SSW0	SSW2	WSW1	SE5	SE3	NNE2	ESE1	SE7	SE7	E4	E4	E7	ESE6	ESE4	SE3	SE5	ESE10	ESE6	ESE3	SE6	SSE5	SE3.5	ESE10
20-Feb	S3	S3	SE2	SSE4	SSE3	ESE2	ESE2	SSE1	SE5	ESE5	S1	ESE3	NE5	N2	NW3	NW6	NW4	W3	WNW3	NW7	NNW13	NNW11	NW12	NW11	NNW1.8	NNW13
21-Feb	NW11	NNW12	NNW11	NNW10	NNW11	NNW13	NNW9	NW6	WSW2	SW2	W2	NW5	W3	NW10	NNW14	NNW13	NNW12	N11	NNE10	NNE10	NNW11	NW16	NNW17	NNW15	NNW9.2	NNW17
22-Feb	NNW18	NNW15	NNW13	NNW12	NW14	NW15	NW14	NW12	NW14	NNW13	NNW12	NNW11	NNW10	NNW10	NNW9	NNW12	NNW11	NNW9	N5	E10	E10	E9	ESE11	ESE12	NNW8.4	NNW18
23-Feb	E11	ESE10	ESE10	ESE6	ESE5	SSE4	SE5	ENE5	NNW1	NNE2	NE2	NE3	NE4	WNW3	WNW2	WSW2	NE2	WNW2	WSW1	SW1	WSW1	NE1	ESE2	ESE3	E2.3	E11
24-Feb	ENE3	ENE5	E4	SE4	SE3	SE6	SE5	ESE7	ESE5	ESE4	ESE5	E5	ENE6	SE2	SSW8	SSW5	SSE3	SE8	ESE9	SE4	ESE7	E6	ESE8	ESE7	ESE4.5	ESE9
25-Feb	ESE7	ESE7	ESE6	ESE7	ESE2	NNW3	NE2	ENE2	ESE2	ESE4	ESE6	ESE5	ESE7	SE5	SE6	SE7	ESE6	N2	NNW3	W3	NW4	NW10	NNW11	NNW13	E2.1	NNW13
26-Feb	NNW16	NNW18	NNW16	NNW11	NNW13	NNW12	NW16	NNW16	NNW17	NNW18	NNW18	NNW20	NNW24	NW29	NW29	NW29	NNW24	NNW24	NNW21	NNW18	NW25	NW27	NW22	NNW20	NNW20.1	NW29
27-Feb	NNW23	NNW18	NNW11	NNW14	NW15	NW11	NW7	NW8	NNW9	NW12	NW12	NNW11	NW9	NW11	NW10	NW9	WNW8	WNW5	SW4	WSW5	SW5	SW5	SSW5	ESE1	NW8.2	NNW23
28-Feb	NNE0	NNW0	WNW0	NNE1	SW1	NE1	SW1	S4	ESE1	S2	ESE9	ESE11	ESE8	E6	ESE11	ESE9	ESE7	NE2	N1	SSE3	SSE2	SSE3	SE10	ESE12	ESE3.8	ESE12
	NNW4.2	NNW3.9	NNW3.5	NNW3.3	NW4.0	NNW4.0	NNW3.3	NNW3.3	NNW3.4	NNW3.2	N2.8	N3.2	NNW3.5	NNW4.3	NNW3.8	NNW4.0	NNW3.5	NNW3.2	N2.8	N3.2	N3.4	NNW3.5	NNW2.9	NNW3.0	Diurnal Average	
	NNW23	NNW21	NNW23	NNW22	NW24	NW24	NNW23	NNW23	NNW25	NNW26	NNW25	NNW29	NNW24	NW29	NW29	NW29	NNW24	NNW24	NNW21	NNW22	NW25	NW27	NW22	NNW21	Diurnal Maximum	

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Athabasca Valley - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 8 km/h on Feb 26 18:00

Minimum Value: 1 km/h on Feb 20 18:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

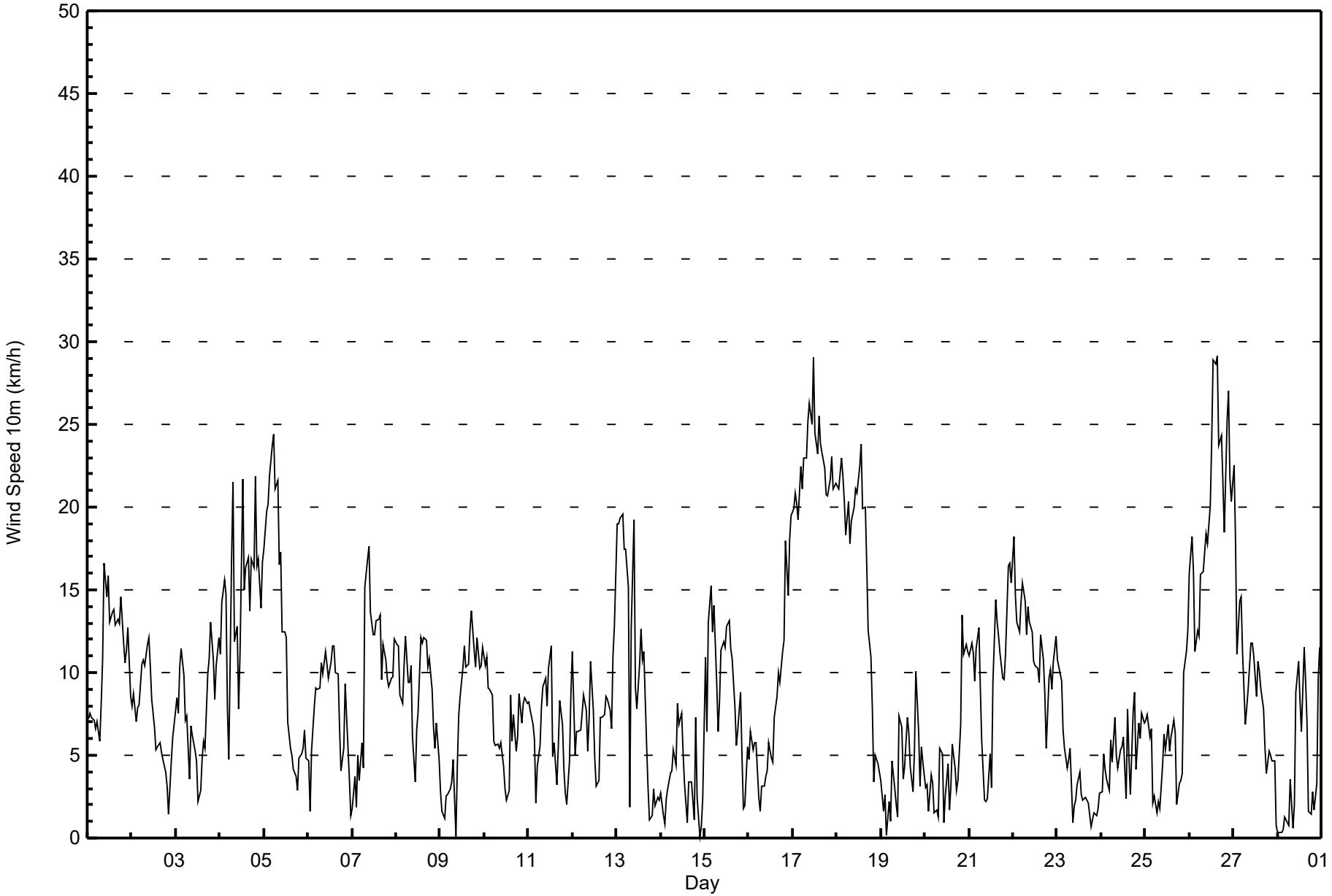
Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	1	2	2	2	2	1	3	3	4	4	4	4	4	3	3	3	3	4	3	3	3	3	4	4
2-Feb	3	2	2	2	3	2	2	2	2	3	3	2	1	2	1	1	1	1	1	1	1	1	1	1	3
3-Feb	1	1	2	2	1	2	2	1	2	1	1	1	1	1	2	2	2	2	2	3	2	2	2	2	3
4-Feb	3	3	3	3	3	4	4	4	8	7	4	4	4	3	3	3	2	3	5	5	4	3	2	3	8
5-Feb	3	4	5	6	4	4	5	6	6	4	3	2	3	2	1	1	1	1	2	1	1	2	2	1	6
6-Feb	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	3	3	2	2	2	2	2	2	1	4
7-Feb	2	1	2	2	2	2	3	3	3	3	3	2	3	3	3	2	2	2	2	2	2	2	2	2	3
8-Feb	2	3	2	2	3	3	3	1	2	2	1	2	2	3	3	3	2	2	2	2	2	1	2	1	3
9-Feb	1	1	1	1	1	1	1	2	1	2	2	1	2	2	2	2	3	3	2	2	3	2	2	3	3
10-Feb	2	2	2	2	2	1	1	1	1	2	1	1	1	4	2	2	2	1	2	2	2	2	2	2	4
11-Feb	1	2	2	1	2	1	2	2	3	4	3	3	3	1	2	1	1	1	3	2	1	1	2	2	4
12-Feb	2	2	2	2	2	2	2	2	2	3	2	1	2	1	2	2	2	2	1	2	1	2	2	3	3
13-Feb	3	3	4	3	3	3	4	2	4	4	4	3	3	3	4	4	2	1	1	1	1	1	2	2	4
14-Feb	1	1	1	1	1	1	2	2	2	2	2	1	2	2	3	2	2	2	2	3	1	1	1	1	3
15-Feb	5	3	4	5	3	4	2	2	2	3	2	2	3	3	2	2	2	1	2	1	1	1	1	2	5
16-Feb	2	1	1	1	1	2	2	1	2	2	2	1	1	2	2	1	2	2	2	3	3	3	4	3	4
17-Feb	3	4	4	4	4	5	5	5	4	5	5	5	5	6	6	6	6	6	5	6	6	6	5	5	6
18-Feb	6	5	6	5	5	5	5	4	5	5	4	4	4	3	4	3	3	2	2	2	1	3	2	2	6
19-Feb	2	1	2	1	2	1	2	2	2	2	2	1	2	2	1	2	1	1	2	2	2	1	2	1	2
20-Feb	1	2	1	1	2	2	2	2	2	2	1	2	1	1	1	1	1	1	1	3	3	2	2	2	3
21-Feb	2	2	2	2	2	3	5	3	1	1	1	1	1	3	3	3	3	3	2	2	5	3	3	4	5
22-Feb	4	3	3	3	3	3	3	3	3	3	3	2	2	2	2	3	2	2	3	4	3	3	3	3	4
23-Feb	3	3	3	2	2	1	2	1	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	3
24-Feb	2	1	1	2	1	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
25-Feb	2	2	2	2	2	1	1	1	2	2	2	2	2	2	2	1	2	1	3	1	1	3	2	3	3
26-Feb	4	4	5	3	3	3	3	4	4	4	3	5	5	5	5	6	6	8	6	5	6	6	4	5	8
27-Feb	5	5	3	4	3	3	2	1	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	5
28-Feb	1	1	1	1	1	1	1	2	2	3	3	3	2	3	2	3	2	1	2	1	1	1	3	3	3
	6	5	6	6	5	5	5	6	8	7	5	5	5	6	6	6	6	8	6	6	6	6	5	5	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Athabasca Valley - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	223	33.18	33.18
6 - 11	255	37.95	71.13
12 - 19	134	19.94	91.07
20 - 28	56	8.33	99.40
29 - 38	4	0.60	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Athabasca Valley - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	13	9	13	8	8	33	24	18	12	11	13	11	9	11	8	22	223
6 - 11	3	2	1	3	24	69	23	5	1	10	8	4	0	2	33	67	255
12 - 19	0	0	0	0	0	23	1	0	0	1	12	5	1	0	26	65	134
20 - 28	0	0	0	0	0	0	0	0	0	0	3	0	0	0	13	40	56
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	16	11	14	11	32	125	48	23	13	22	36	20	10	13	83	195	672

Total Number of Valid Hours: 672

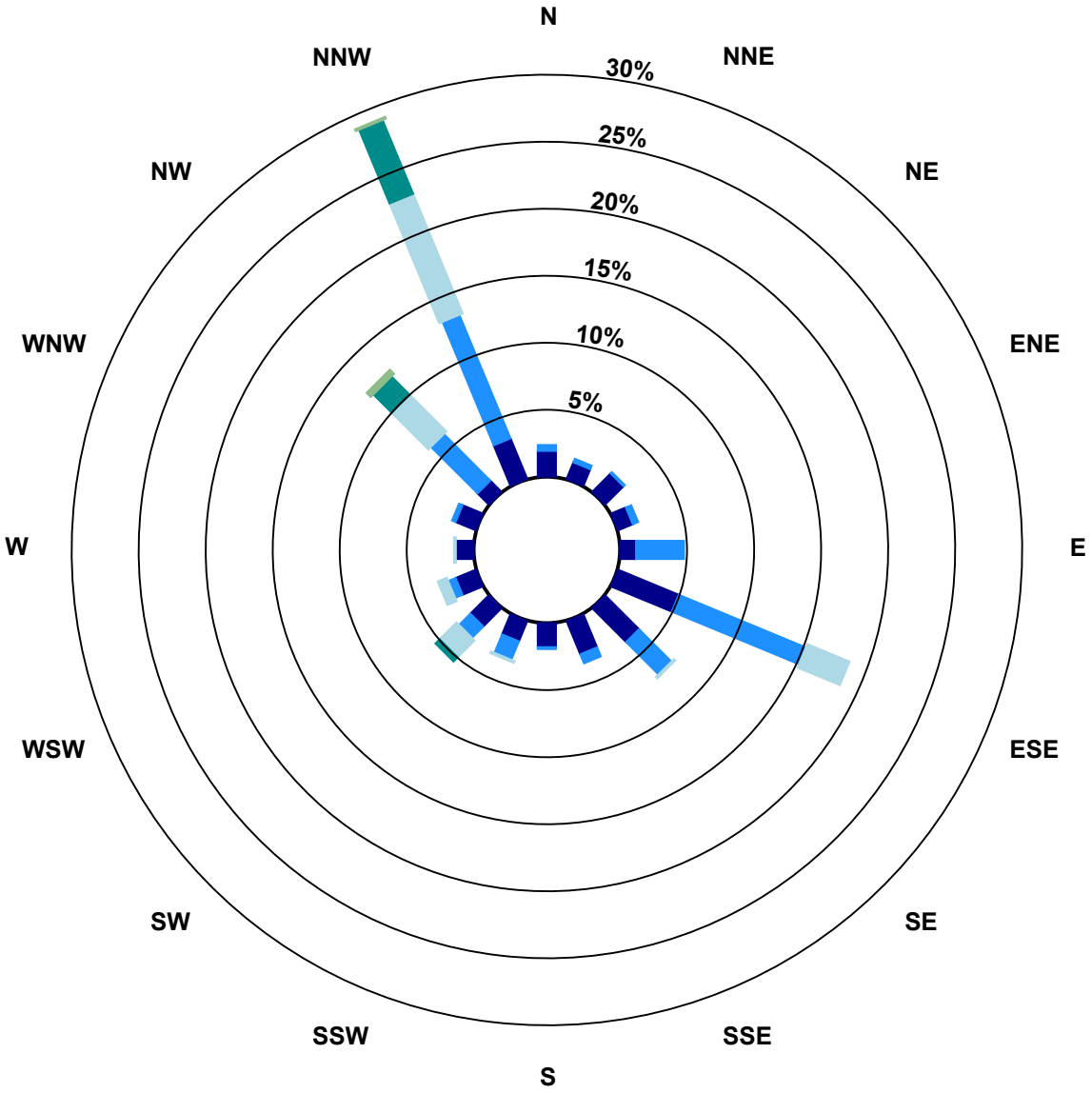
Total Number of Hours: 672

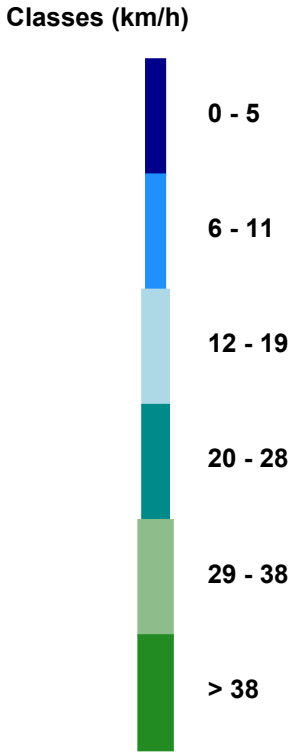
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Athabasca Valley





Total Number of Valid Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Athabasca Valley - February 2026

Direction of Maximum Speed: 323 deg on Feb 26 16:00
Direction of Maximum Daily Speed Average: 333.0 deg on Feb 17

Direction of Minimum Speed: 355 deg on Feb 9 09:00

Direction of Minimum Daily Speed Average: 1.2 deg on Feb 10

Monthly Average Direction: 338.6 deg

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	52	68	83	86	87	92	96	92	101	107	107	109	106	104	104	108	103	106	104	104	105	108	109	114	101.1
2-Feb	113	114	126	126	125	114	116	113	119	122	121	117	118	112	135	98	121	102	116	71	30	326	330	326	112.5
3-Feb	321	317	328	321	313	330	328	349	331	329	328	334	334	31	129	124	119	115	115	124	123	121	123	123	44.6
4-Feb	120	113	120	127	153	204	221	228	215	237	217	236	224	227	252	254	243	238	277	327	327	325	325	325	244.9
5-Feb	324	324	326	326	323	324	328	326	332	328	330	324	323	345	353	308	12	45	120	48	346	345	338	342	330.3
6-Feb	333	346	109	97	100	100	95	104	100	105	102	100	101	103	107	98	102	73	93	113	117	128	145	283	101.7
7-Feb	181	255	218	221	238	214	268	323	325	324	332	336	339	332	324	327	339	327	329	336	340	338	327	328	323.7
8-Feb	327	321	323	332	332	331	329	325	318	333	343	332	340	331	335	334	331	331	327	325	326	341	322	348	329.8
9-Feb	356	283	335	341	2	355	12	350	355	355	332	327	332	327	333	336	330	326	335	322	334	336	319	326	332.6
10-Feb	330	320	321	327	327	342	342	336	344	340	340	262	286	135	134	153	157	169	171	145	155	197	202	197	274.2
11-Feb	200	202	197	192	135	92	88	111	116	119	112	116	118	85	106	68	125	120	130	141	162	153	127	120	128.7
12-Feb	117	122	119	117	112	110	111	106	111	118	126	126	117	128	104	130	121	115	115	112	120	162	216	219	127.9
13-Feb	222	222	231	223	226	231	226	260	227	225	225	213	226	213	226	233	230	184	227	83	209	150	167	183	223.2
14-Feb	195	156	138	160	166	141	112	124	121	125	126	123	74	61	130	184	293	339	274	326	332	211	165	211	126.6
15-Feb	323	344	337	333	339	333	331	325	338	329	327	332	331	330	334	331	336	350	342	330	1	14	252	236	332.0
16-Feb	224	243	228	249	242	242	260	231	54	46	340	333	321	326	325	331	336	349	333	334	326	331	326	327	319.8
17-Feb	327	327	328	328	328	330	330	328	327	328	328	327	329	334	332	337	337	340	339	343	343	341	341	343	333.0
18-Feb	339	333	331	332	333	339	338	338	335	332	328	324	321	322	324	322	327	308	303	322	307	217	203	183	326.8
19-Feb	188	161	206	209	211	245	144	144	22	102	127	126	92	85	90	106	109	134	125	114	122	116	133	159	124.3
20-Feb	174	171	143	166	161	119	116	151	126	106	186	111	54	10	304	321	309	260	299	323	333	335	319	323	329.0
21-Feb	326	330	329	337	335	333	335	307	244	232	260	320	268	322	327	337	338	353	13	19	332	316	327	333	331.6
22-Feb	329	330	332	329	321	324	324	326	324	328	329	334	332	332	335	329	334	344	356	96	96	97	103	103	341.2
23-Feb	98	105	108	106	106	159	138	77	328	15	53	43	48	298	300	237	52	286	245	217	238	40	109	122	98.1
24-Feb	66	72	93	134	144	125	125	120	118	110	108	88	68	142	208	200	148	129	119	127	113	89	106	109	117.1
25-Feb	106	112	114	111	111	346	45	72	102	116	120	118	109	132	136	124	117	0	333	276	326	326	335	337	81.4
26-Feb	334	330	333	339	334	331	326	335	336	339	332	333	329	325	321	323	334	328	334	330	324	321	323	332	329.3
27-Feb	327	332	341	335	324	326	320	311	333	320	319	330	320	326	324	325	300	301	236	243	220	219	206	114	318.4
28-Feb	14	333	290	16	234	52	224	184	111	170	121	122	120	101	116	118	111	50	2	162	159	154	128	122	122.9
	331.1	329.3	333.3	331.4	325.2	332.5	331.3	338.1	341.4	341.8	353.3	350.8	343.0	336.5	332.6	331.0	345.4	345.9	349.5	1.8	350.8	338.0	331.4	336.6	
	Diurnal Average																								

All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 107 deg on Feb 19 04:00

Minimum Value: 6 deg on Feb 7 06:00

Percentiles: P_1 = 8 P_{10} = 11 Q_1 = 14 Median = 18 Q_3 = 30 P_{90} = 60 P_{99} = 94

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

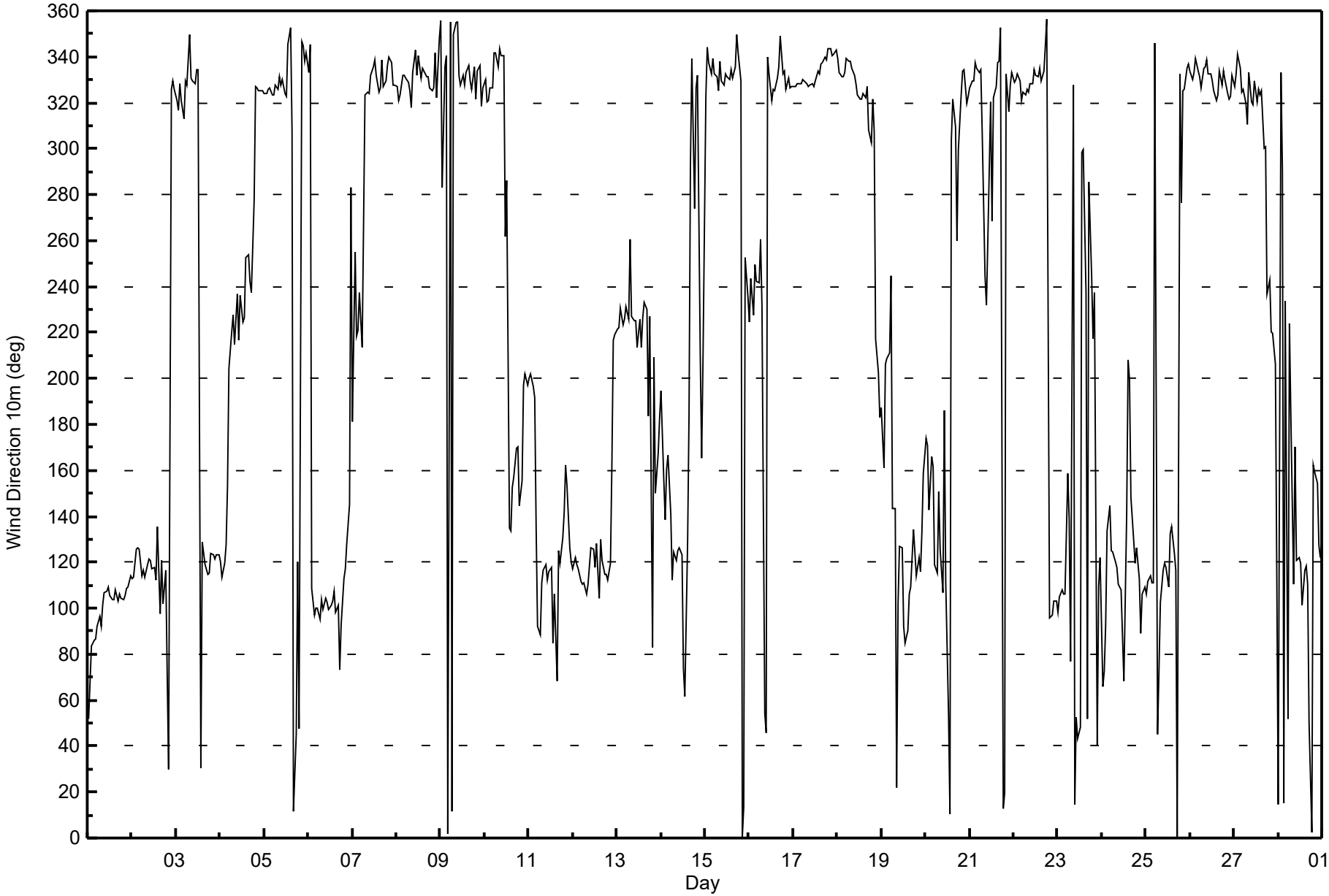
Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	17	8	15	18	16	19	23	22	19	13	15	14	17	18	16	14	15	16	16	17	17	16	13	18	23
2-Feb	22	15	18	18	19	15	14	13	13	13	15	16	18	27	18	27	24	22	31	21	56	13	13	12	56
3-Feb	9	12	15	13	12	15	14	25	20	23	15	25	52	58	44	27	25	14	14	12	13	16	14	14	58
4-Feb	18	12	12	13	26	78	12	11	56	27	43	55	9	13	12	8	9	8	35	11	14	10	10	9	78
5-Feb	8	10	13	12	8	9	12	12	17	14	15	15	14	21	22	16	34	44	54	20	14	29	20	28	54
6-Feb	28	77	29	23	24	23	23	22	21	20	21	23	21	20	18	21	19	20	44	28	21	21	60	64	77
7-Feb	64	33	94	40	44	6	39	10	10	9	15	14	17	14	15	11	16	13	13	16	17	16	14	11	94
8-Feb	11	14	18	14	15	15	13	12	8	17	27	17	15	13	16	15	14	15	10	11	14	17	16	18	27
9-Feb	32	35	77	55	48	27	30	25	95	36	15	11	13	11	14	15	13	12	16	14	15	16	14	12	95
10-Feb	14	11	11	10	14	18	23	18	18	19	25	25	37	73	25	29	21	21	27	23	35	28	11	12	73
11-Feb	10	13	14	16	67	38	25	22	19	19	28	17	14	23	22	50	17	12	30	47	64	61	27	14	67
12-Feb	12	23	23	17	20	23	17	20	39	22	10	11	34	38	39	21	16	12	10	14	11	43	10	12	43
13-Feb	9	9	11	8	10	11	12	87	13	12	41	25	15	15	17	15	15	37	96	76	26	59	47	60	96
14-Feb	56	80	85	63	52	33	42	30	55	17	18	13	39	74	75	72	60	62	89	32	56	87	79	51	89
15-Feb	21	22	17	18	15	16	13	22	18	13	12	13	13	11	13	12	16	19	14	11	23	29	67	14	67
16-Feb	25	11	13	13	8	80	66	17	58	49	27	17	23	33	16	16	17	15	15	16	9	13	10	10	80
17-Feb	10	10	12	12	11	13	12	11	9	11	11	11	13	16	15	17	17	18	18	19	19	18	18	18	19
18-Feb	17	16	15	15	16	17	18	17	17	14	13	11	9	8	11	10	11	13	10	14	32	22	49	53	53
19-Feb	48	78	42	107	88	92	49	64	69	101	16	20	56	53	20	23	29	22	24	11	20	49	26	25	107
20-Feb	26	65	86	31	22	82	68	82	43	50	94	78	10	54	27	13	21	23	19	22	14	15	8	9	94
21-Feb	12	11	13	17	15	15	46	44	38	52	42	23	43	28	13	17	16	16	18	14	21	9	11	15	52
22-Feb	12	13	16	15	10	10	11	13	11	13	13	14	14	14	17	14	14	22	41	36	19	21	17	16	41
23-Feb	19	19	17	22	27	36	40	28	68	60	70	22	22	30	40	23	63	33	64	86	61	73	47	32	86
24-Feb	65	16	24	35	31	23	30	21	29	33	28	31	10	65	21	31	49	13	15	48	22	23	26	25	65
25-Feb	21	19	26	17	80	35	51	63	67	46	26	31	26	32	28	19	29	53	86	27	23	13	15	17	86
26-Feb	16	15	17	20	16	15	10	15	14	15	13	14	12	10	13	12	15	14	16	14	11	9	9	14	20
27-Feb	12	15	19	17	10	18	27	11	16	16	14	13	20	12	12	11	13	10	17	15	27	38	19	96	96
28-Feb	93	93	83	92	74	92	94	47	98	92	27	15	18	31	14	16	16	75	79	59	79	41	22	14	98
	93	93	94	107	88	92	94	87	98	101	94	78	56	74	75	72	63	75	96	86	79	87	79	96	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Athabasca Valley - February 2026



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS08
FORT CHIPEWYAN
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FORT CHIPEWYAN (AMS08)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-Min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2(ppb) Average	641	31	31	100	-	-	3.4	0	1	0
TRS (ppb) Average	639	33	33	100	0.4	0	0.4	-	0.2	-
O3(ppb) Average	641	31	31	100	-	-	40.9	0	38.2	-
NO2(ppb) Average	638	34	34	100	-	-	19.8	0	5.2	-
NO(ppb) Average	638	34	34	100	-	-	13.7	-	3.6	-
NOX(ppb) Average	638	34	34	100	-	-	20.4	-	6	-
PM2.5(ug/m3) Average	670	2	2	100	-	-	12.5	0	4.6	0
Temperature 2 m (C) Average	672	0	0	100	-	-	0.8	-	-5.5	-
Relative Humidity (%) Average	672	0	0	100	-	-	96.3	-	87.3	-
Wind Speed 10 m (km/h) Average	663	0	9	98.66	-	-	29	-	19	-
Wind Direction 10 m (deg) Average	663	0	9	98.66	-		-	-	-	-
PC(mm) Total	408	0	264	60.71	-	-	0.4	-	2.1	-
Leaf Wetness (% of range) Average	669	0	3	99.55	-	-	24.4	-	5.4	-
Global Solar Radiation (W/m2) Average	672	0	0	100	-	-	471.1	-	118.3	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FORT CHIPEWYAN (AMS08)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2(ppb) Average	641	0.19	0.4	-	0	0	0	0	0.1	0.6	3.4
TRS (ppb) Average	639	0.15	0	-	0.1	0.1	0.1	0.1	0.2	0.2	0.4
O3(ppb) Average	641	26.68	10.1	-	2.4	9.8	19.9	30.4	34.9	37.6	40.9
NO2(ppb) Average	638	1.23	2.2	-	0.1	0.3	0.3	0.5	1.2	2.5	19.8
NO(ppb) Average	638	0.34	1.5	-	0	0	0	0	0.1	0.4	13.7
NOX(ppb) Average	638	1.56	2.9	-	0.2	0.3	0.4	0.6	1.4	2.8	20.4
PM2.5(ug/m3) Average	670	2.89	1.2	-	1.3	1.8	2	2.6	3.3	4.2	12.5
Temperature 2 m (C) Average	672	-20.86	8.3	-	-38.1	-32.3	-27.9	-19.8	-14.8	-10.9	0.8
Relative Humidity (%) Average	672	74.16	8.5	-	52.8	63.2	68.4	74.2	80.5	85.1	96.3
Wind Speed 10 m (km/h) Average	663	11.5	6	-	0	5	7	10	15	21	29
Wind Direction 10 m (deg) Average	663	-	-	-	-	-	-	-	-	-	-
Precipitation (mm) Total	408	-	-	2.78	-	-	-	0	0	0	0.4
Leaf Wetness (% of range) Average	669	2.2	1.3	-	1.3	1.8	1.9	1.9	2.2	2.8	24.4
Global Solar Radiation (W/m2) Average	672	60.51	106.1	-	0	0	0	0	89.1	222.1	471.1

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FORT CHIPEWYAN (AMS08)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
Wind Speed, Wind Direction	04 Feb 2026 02:00	04 Feb 2026 08:00	7	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	14 Feb 2026 07:00	14 Feb 2026 08:00	2	Flat line in sensor output signal - Sensor frozen
Precipitation Collector	01 Feb 2026 01:00	12 Feb 2026 00:00	264	Sensor Failure - faulty electronics
Surface Leaf Wetness	04 Feb 2026 08:00	04 Feb 2026 10:00	3	Sensor operated out of range

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Fort Chipewyan - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 3.4 ppb on Feb 1 15:00 Maximum Daily Average: 1.0 ppb on Feb 19

Minimum Value: 0.0 ppb on Feb 4 18:00 Minimum Daily Average: 0.0 ppb on Feb 14

Maximum Diurnal Average: 0.3 ppb at hour 15 Minimum Diurnal Average: 0.1 ppb at hour 8

Monthly Average: 0.19 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.1 P_{90} = 0.6 P_{99} = 2.3

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.4	2.1	3.4	2.6	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.5	3.4
2-Feb	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.2	0.1	0.3
3-Feb	0.3	0.4	Z	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.4	0.4	0.3	0.2	0.4
4-Feb	0.6	1.0	1.0	Z	1.9	1.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.9
5-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
7-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
8-Feb	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
9-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Feb	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.5	0.6	1.4	2.8	3.0	2.7	2.0	1.8	1.5	1.2	0.8	3.0
11-Feb	1.3	1.9	1.5	1.4	Z	0.7	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.4	1.9
12-Feb	0.1	0.0	0.1	0.1	0.1	Z	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.3
13-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
19-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	0.8	0.7	0.8	1.4	1.8	1.8	2.1	2.4	2.3	2.3	1.6	1.2	1.0	1.5	1.0	2.4
20-Feb	1.1	Z	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.2	0.2	0.3	0.5	0.6	1.0	0.9	0.7	0.7	0.7	0.6	0.7	0.9	0.9	0.6	0.7	1.1
21-Feb	0.4	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
22-Feb	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
23-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
24-Feb	0.0	0.0	0.0	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2
25-Feb	Z	0.4	0.4	0.3	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.6	0.5	0.5	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.7
26-Feb	0.3	Z	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
27-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28-Feb	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.5	1.0	1.2	0.8	0.5	0.5	0.5	0.9	1.2	1.4	1.1	0.7	0.5	1.4
	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	Diurnal Average	
	1.3	1.9	1.5	1.4	1.9	1.2	0.7	0.7	0.7	0.9	0.8	0.7	1.4	2.1	3.4	2.6	2.1	2.8	3.0	2.7	2.0	1.8	1.5	1.5	Diurnal Maximum	

Z - zerospan C - Calibration

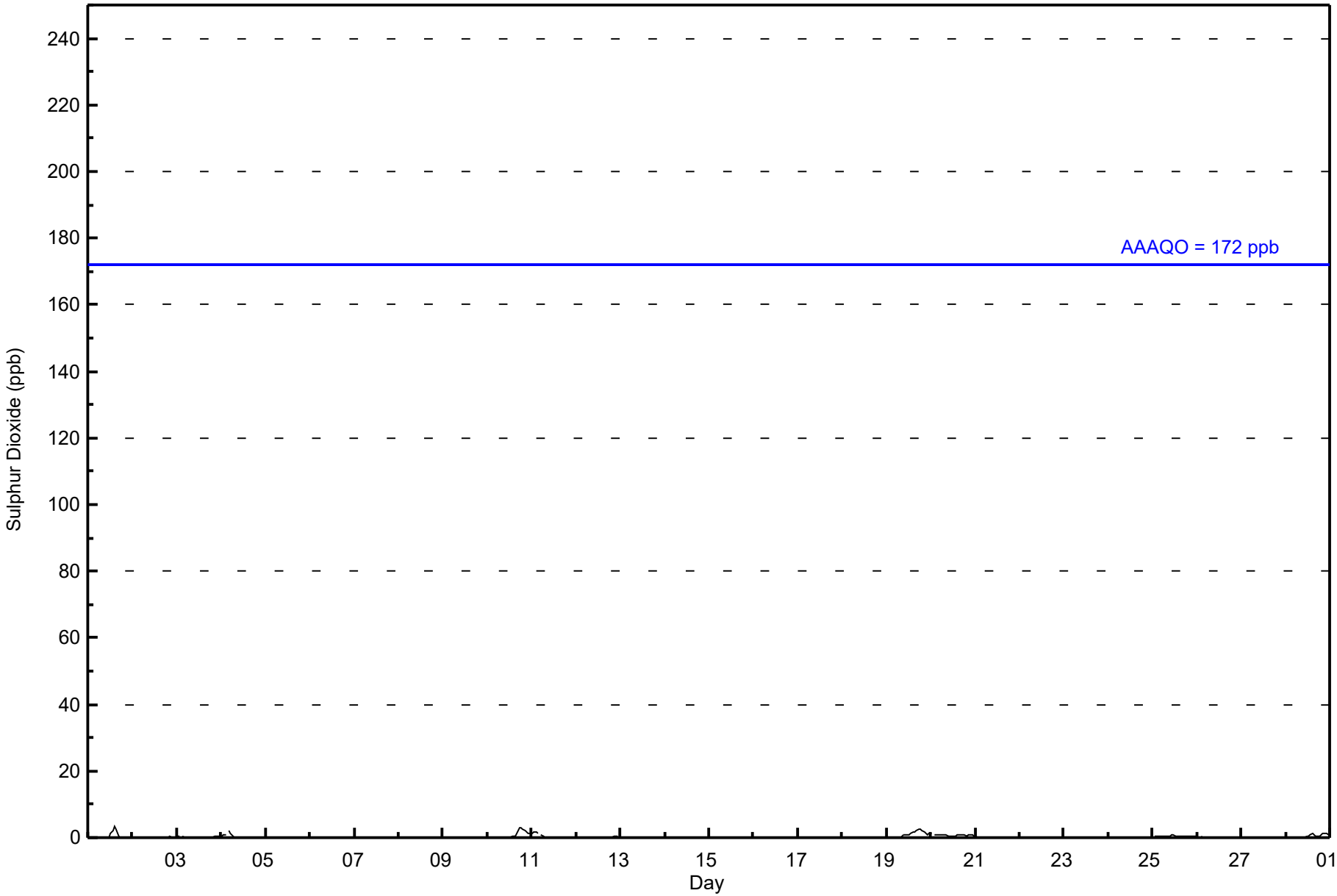
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Fort Chipewyan - February 2026



Sulphur Dioxide (SO_2) - ppb
Fort Chipewyan - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	641	100.00	100.00
11 - 20	0	0.00	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Fort Chipewyan - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	40	19	23	78	171	19	9	6	2	5	6	9	23	29	81	113	633
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	40	19	23	78	171	19	9	6	2	5	6	9	23	29	81	113	633

Total Number of Valid Hours: 633

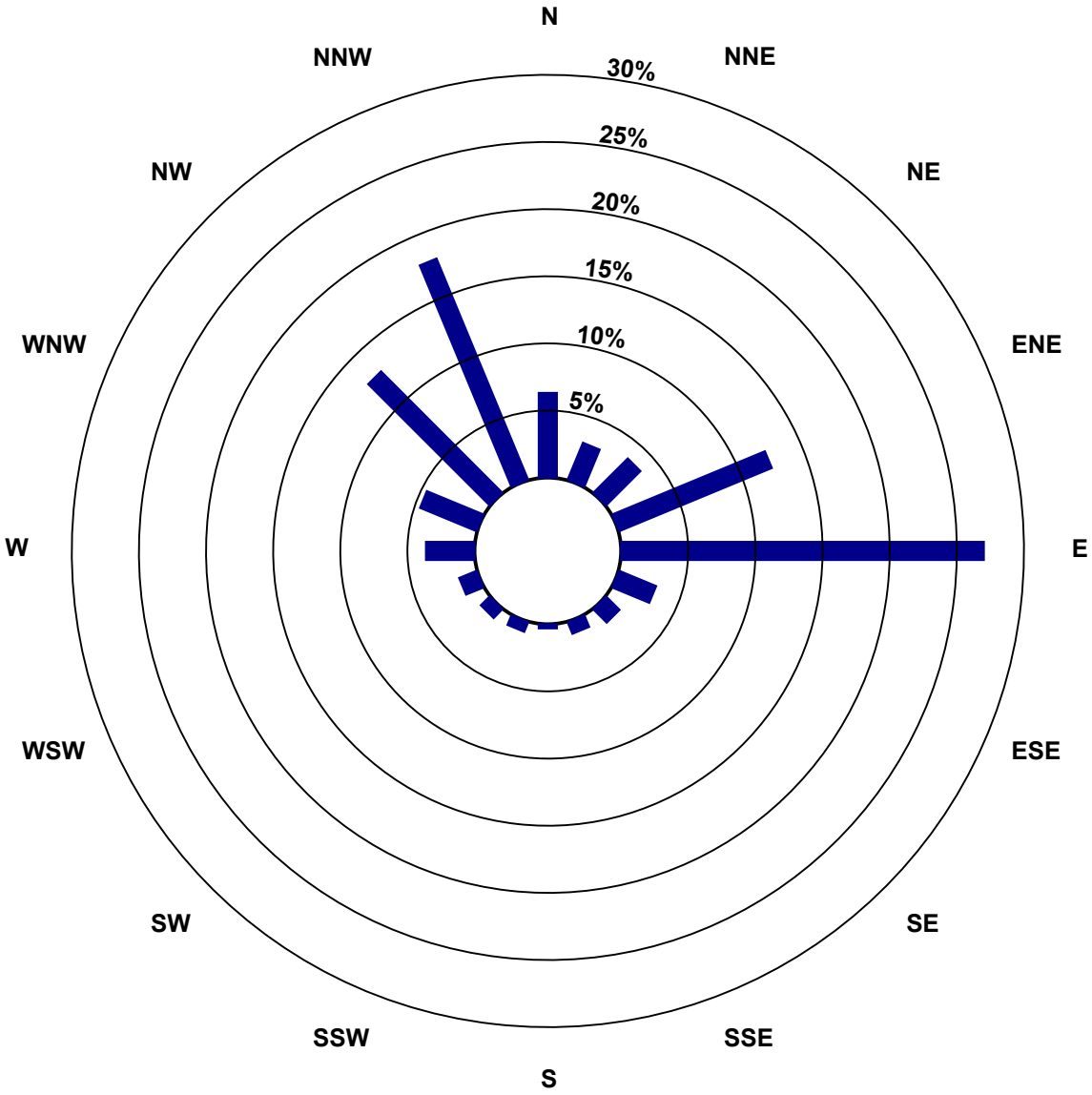
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Fort Chipewyan



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

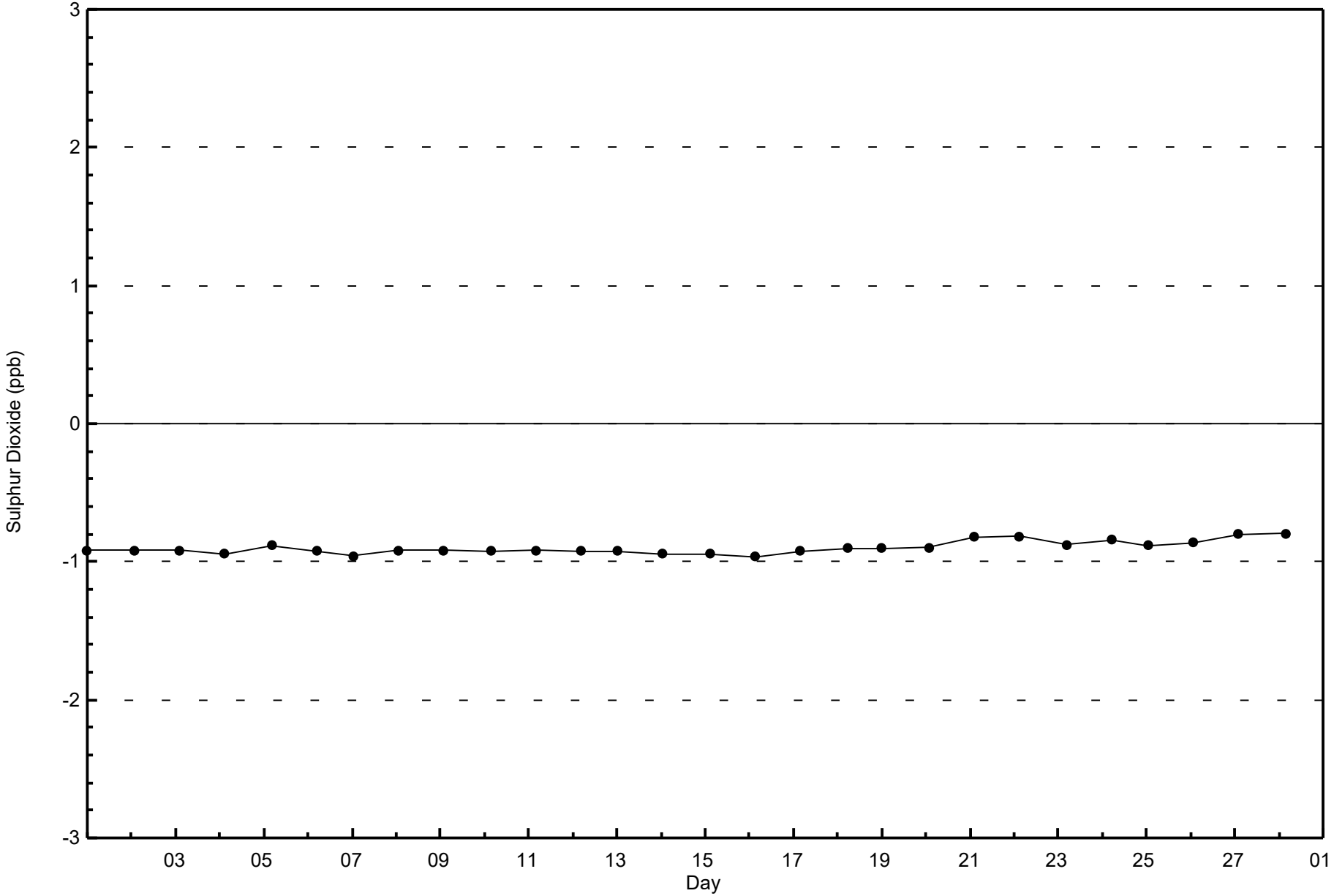
Total Number of Valid Hours: 633

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Fort Chipewyan - February 2026

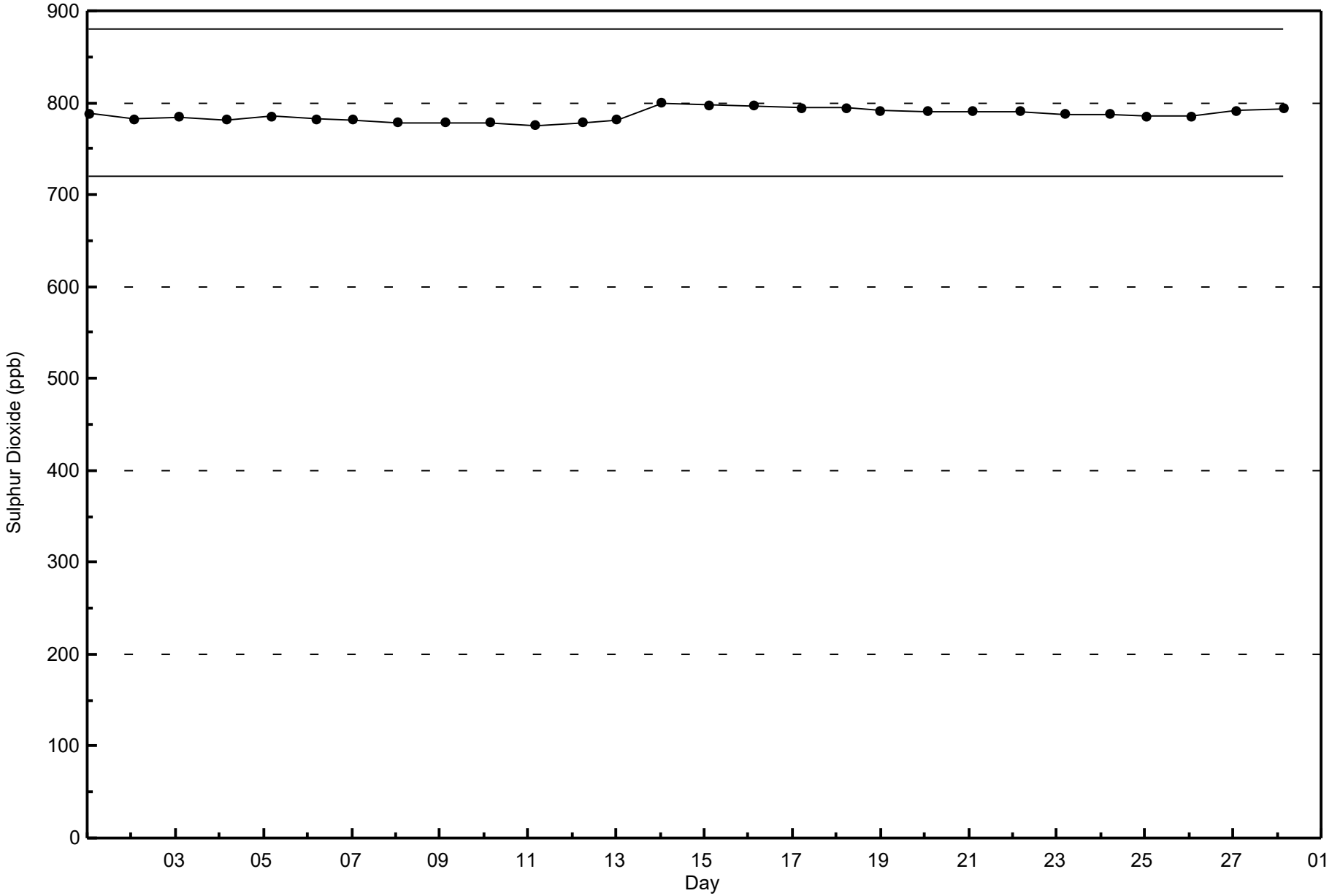


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Fort Chipewyan - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Fort Chipewyan - February 2026

Number of Exceedences (AAAQG): 30-Min: 0

Maximum Value: 0.4 ppb on Feb 10 21:00 Maximum Daily Average: 0.2 ppb on Feb 12

Minimum Value: 0.0 ppb on Feb 24 03:30 Minimum Daily Average: 0.1 ppb on Feb 24

Maximum Diurnal Average: 0.2 ppb at hour 5 Minimum Diurnal Average: 0.1 ppb at hour 8

Monthly Average: 0.15 ppb Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.1 Median = 0.1 Q_3 = 0.2 P_{90} = 0.2 P_{99} = 0.3

Periods in Service:	1344
Periods of Valid Data:	1278
Periods of Invalid Data:	66
Periods of Calibration:	65
Percent Operational Time:	99.9

Period Ending At (MST)

Day	00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
2-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2
	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2		
3-Feb	0.3	0.2	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.3
	0.2	0.2	0.2	SP	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
4-Feb	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	PF	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
	0.1	0.1	0.1	0.2	SP	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1		
5-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	0.1	0.1	0.1	0.1	0.2	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
6-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
7-Feb	0.1	Z	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2
	0.1	SP	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1		
8-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2		
9-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
	0.2	0.2	0.2	SP	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
10-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.2	0.4
	0.1	0.1	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3		
11-Feb	0.3	0.3	0.3	0.3	0.3	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
	0.3	0.3	0.3	0.3	0.3	SP	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
12-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	C	C	C	C	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	C	C	C	C	C	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
13-Feb	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.3
	0.3	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2		
14-Feb	0.1	0.2	Z	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
	0.2	0.2	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2		
15-Feb	0.1	0.1	0.1	Z	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
	0.1	0.1	0.2	SP	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Fort Chipewyan - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	0.2	0.2	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
17-Feb	0.1	0.1	0.1	0.1	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	0.1	0.1	0.1	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
18-Feb	Z	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
	SP	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
19-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.3
	0.2	SP	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.2		
20-Feb	0.1	0.2	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	0.1	0.2	SP	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
21-Feb	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	0.1	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
22-Feb	0.2	0.1	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3
	0.1	0.1	0.2	0.2	SP	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1		
23-Feb	0.1	0.1	0.1	0.1	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	0.1	0.1	0.1	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
24-Feb	Z	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
25-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2
	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2		
26-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2
	0.2	0.2	SP	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1		
27-Feb	0.1	0.1	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.2
	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1		
28-Feb	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.4
	0.1	0.1	0.1	0.1	SP	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3		
	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	Diurnal Average	
	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	Diurnal Maximum	

Z - zerospan C - Calibration PF - Power Failure SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Fort Chipewyan - February 2026

Maximum Value: 0.4 ppb on Feb 10 21:00

Maximum Daily Average: 0.2 ppb on Feb 12

Minimum Value: 0.1 ppb on Feb 3 18:00

Minimum Daily Average: 0.1 ppb on Feb 24

Maximum Diurnal Average: 0.2 ppb at hour 5

Minimum Diurnal Average: 0.1 ppb at hour 8

Monthly Average: 0.15 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.1 Median = 0.1 Q_3 = 0.2 P_{90} = 0.2 P_{99} = 0.3

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
2-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2
3-Feb	0.3	0.2	0.2	Z	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
4-Feb	0.1	0.1	0.1	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2
5-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
6-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7-Feb	0.1	Z	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.2
8-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
9-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
10-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.4
11-Feb	0.3	0.3	0.3	0.3	0.3	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
12-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	C	C	C	C	C	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
13-Feb	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.3
14-Feb	0.1	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15-Feb	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
16-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
17-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18-Feb	Z	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
19-Feb	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.3
20-Feb	0.1	0.2	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
21-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22-Feb	0.2	0.1	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2
23-Feb	0.1	0.1	0.1	0.1	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
24-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
25-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2
26-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.2
27-Feb	0.1	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2
28-Feb	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3
	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	Diurnal Average	
	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	Diurnal Maximum	

Z - zerospan C - Calibration

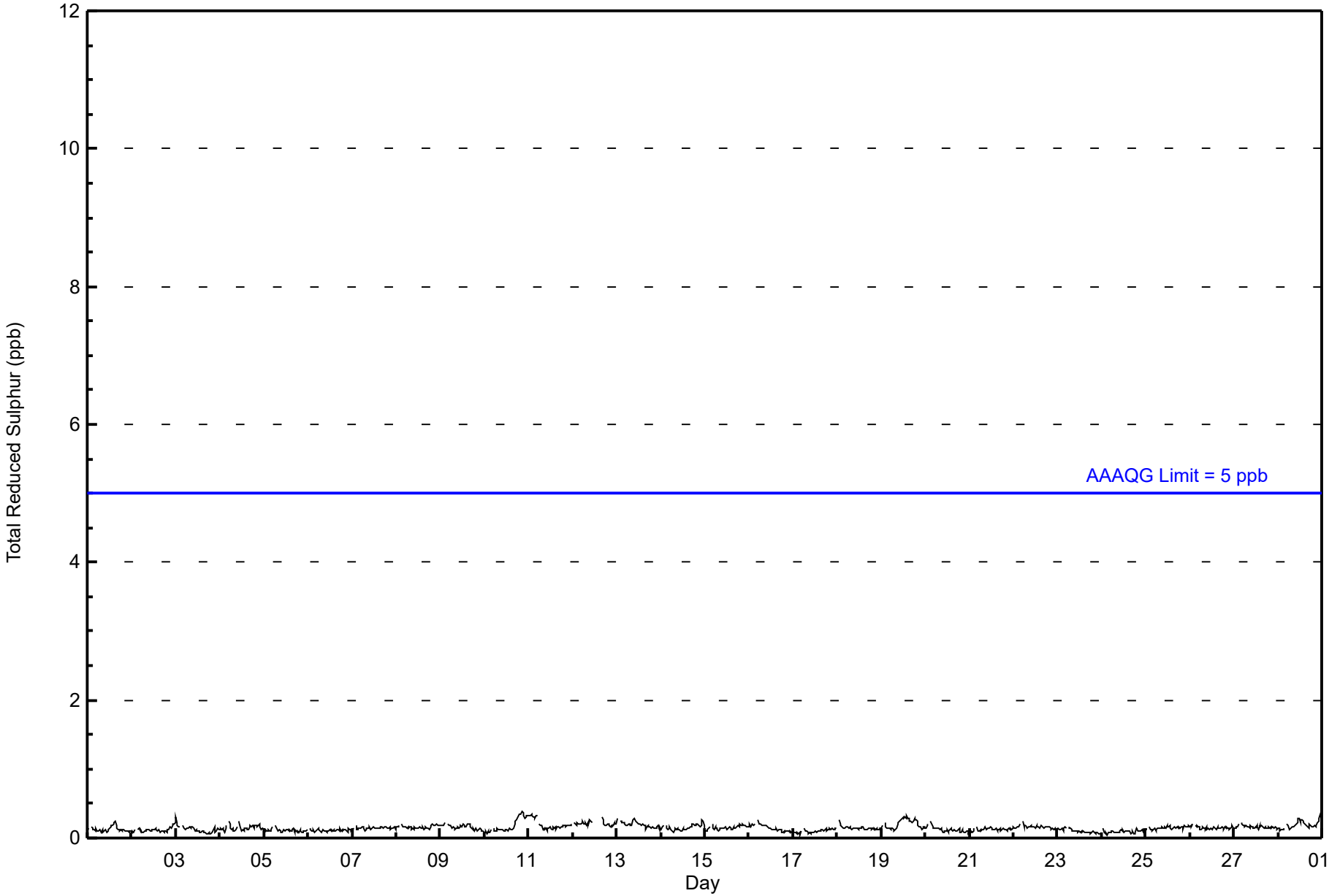
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Fort Chipewyan - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	639	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Fort Chipewyan - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	41	19	22	76	168	19	10	6	2	5	6	9	23	32	82	111	631
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	41	19	22	76	168	19	10	6	2	5	6	9	23	32	82	111	631

Total Number of Valid Hours: 631

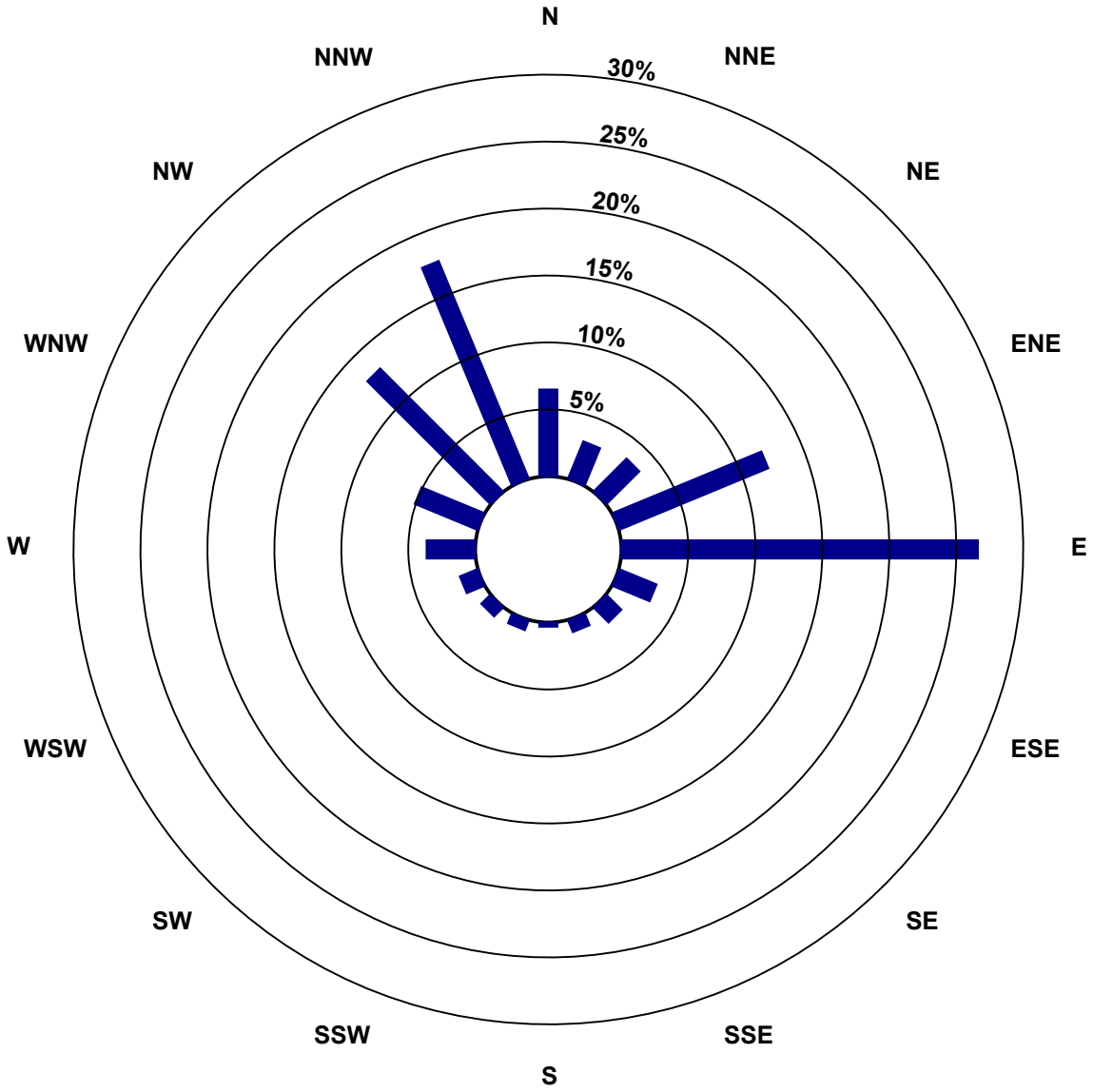
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Fort Chipewyan



Classes (ppb)

- 0 - 2
- 3 - 4
- 5 - 7
- 8 - 11
- > 11

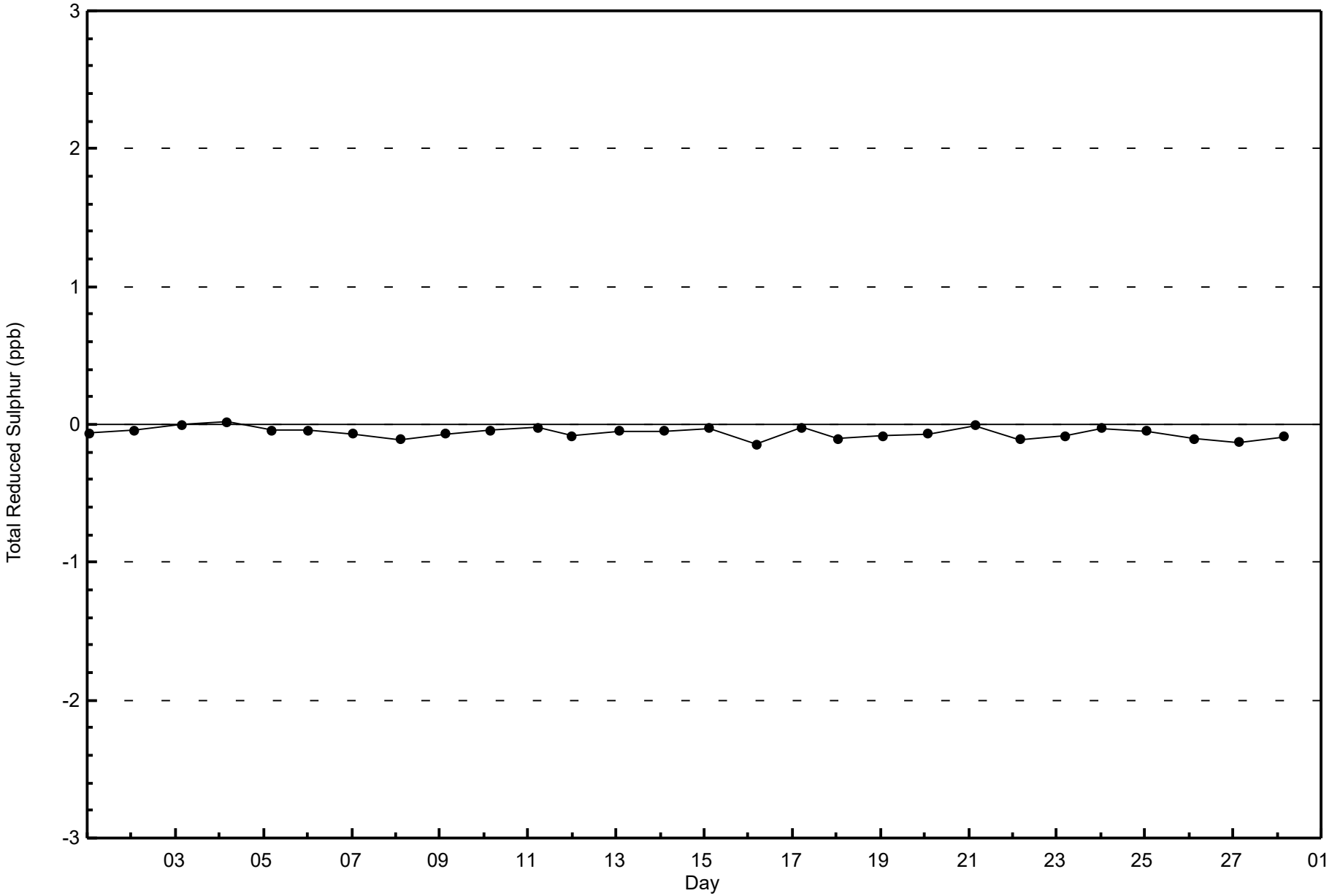
Total Number of Valid Hours: 631

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Fort Chipewyan - February 2026

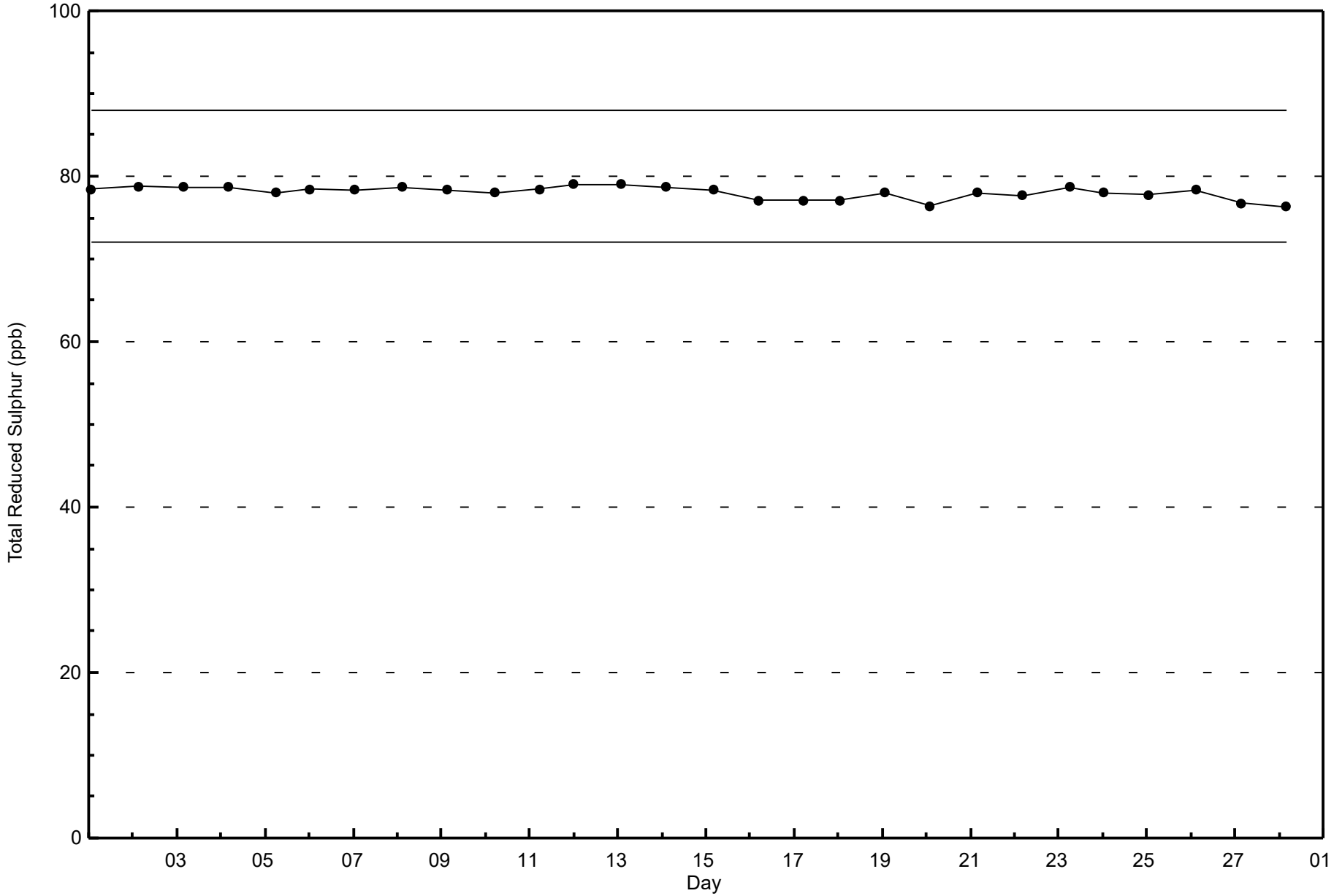


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Fort Chipewyan - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Fort Chipewyan - February 2026

Maximum Value: 13.7 ppb on Feb 19 13:00

Maximum Daily Average: 3.6 ppb on Feb 19

Minimum Value: 0.0 ppb on Feb 6 02:00

Minimum Daily Average: 0.0 ppb on Feb 14

Maximum Diurnal Average: 1.3 ppb at hour 12

Minimum Diurnal Average: 0.0 ppb at hour 2

Monthly Average: 0.34 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.1 P_{90} = 0.4 P_{99} = 9.4

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.4	0.6	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
2-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.2	0.6	0.4	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
3-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
4-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.6	0.2	0.3	0.2	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.6
5-Feb	0.0	0.0	Z	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
6-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.3	0.2	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
7-Feb	0.0	0.0	0.0	0.1	Z	0.1	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	0.1	0.1	0.0	0.1	0.0	0.1
8-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.3
9-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
10-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.5	0.3	0.1	0.2	0.6	0.2	0.2	0.1	0.1	0.6
11-Feb	0.3	0.1	Z	0.3	0.2	0.0	0.0	0.0	0.1	1.0	0.3	0.8	0.8	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0
12-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.7	0.3	1.5	0.6	0.3	0.9	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.2	1.5
13-Feb	0.0	0.0	0.1	0.1	Z	0.1	0.1	0.1	0.2	0.3	0.6	1.6	C	C	C	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	--	1.6
14-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
15-Feb	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1
16-Feb	0.0	Z	0.1	0.0	0.0	0.1	0.0	0.0	4.8	3.1	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.2	0.5	4.8
17-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	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	0.2
18-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.2
19-Feb	0.1	0.1	0.0	0.0	Z	0.0	0.1	0.1	1.7	7.5	12.9	13.5	13.7	11.4	8.7	6.9	3.7	2.1	1.1	0.1	0.0	0.0	0.0	0.0	3.6	13.7
20-Feb	0.0	0.0	0.0	0.1	0.3	Z	2.4	0.4	0.8	0.2	0.2	0.3	0.2	0.4	0.7	0.6	0.4	0.4	0.0	0.1	0.1	0.0	0.0	0.0	0.3	2.4
21-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
22-Feb	0.0	Z	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.4	0.1	0.1	0.0	0.0	0.3	0.6	0.5	0.3	0.3	0.1	0.1	0.1	0.1	0.2	0.6
23-Feb	0.1	0.1	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.2
24-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.3	0.2	0.7	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.7
25-Feb	0.0	0.0	0.0	0.1	Z	0.1	0.1	0.1	0.3	0.6	0.9	0.8	0.6	0.4	0.3	0.8	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.9
26-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.1	0.1	0.2	0.5	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0
27-Feb	Z	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.4	0.3	0.2	0.4	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.5	0.6	0.1	0.2	0.2	0.2	0.6
28-Feb	0.2	Z	0.0	0.0	0.0	0.0	0.0	0.3	2.1	5.5	9.7	13.4	10.7	8.5	3.6	1.6	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.5	13.4
	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.4	0.8	1.0	1.3	1.1	0.9	0.6	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.0	Diurnal Average	
	0.3	0.1	0.1	0.3	0.3	0.1	2.4	0.4	4.8	7.5	12.9	13.5	13.7	11.4	8.7	6.9	3.7	2.1	1.1	0.5	0.6	0.2	0.4	0.2	Diurnal Maximum	

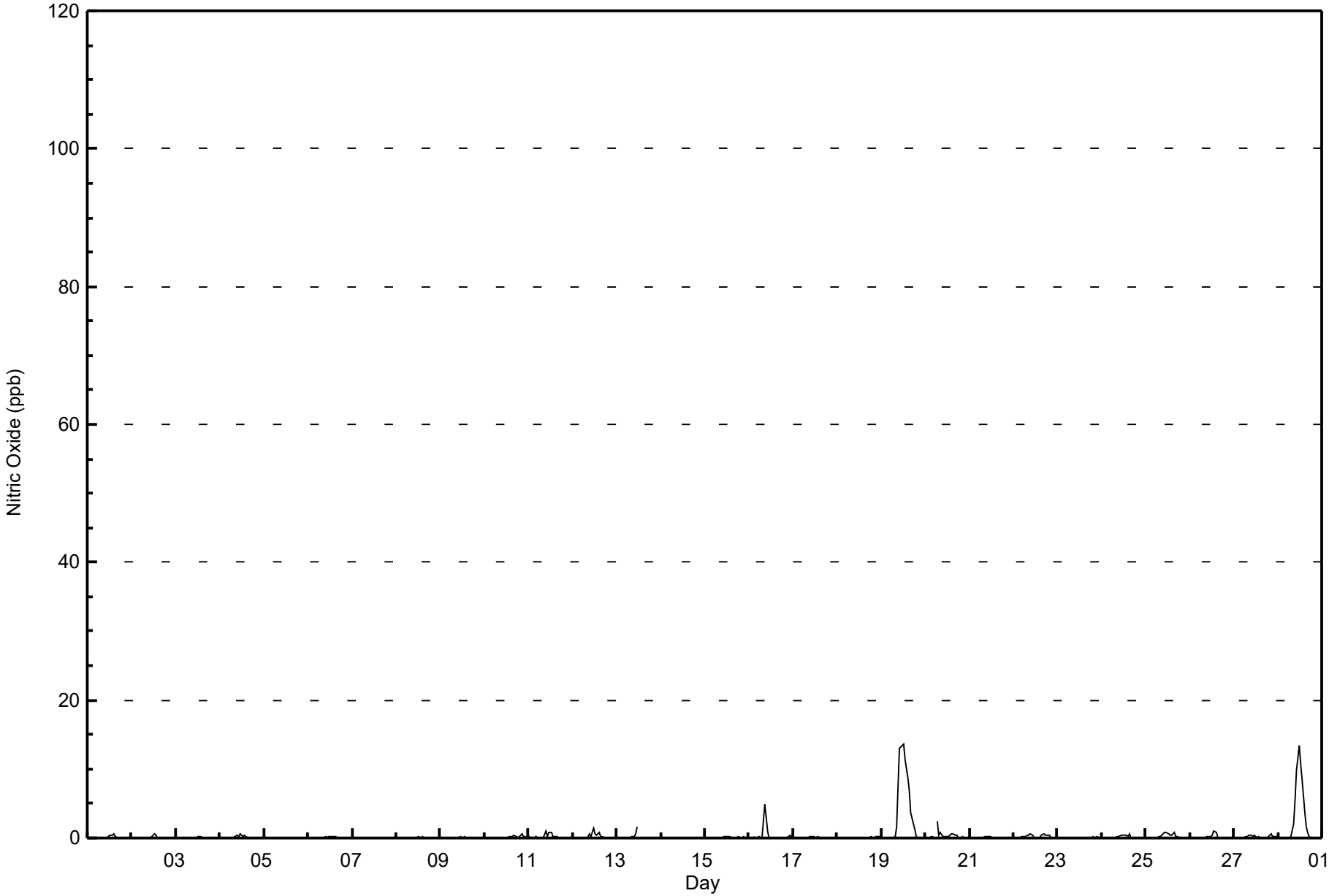
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Fort Chipewyan - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	638	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Fort Chipewyan - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	40	20	22	78	172	19	9	6	2	4	5	9	22	32	80	110	630
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	40	20	22	78	172	19	9	6	2	4	5	9	22	32	80	110	630

Total Number of Valid Hours: 630

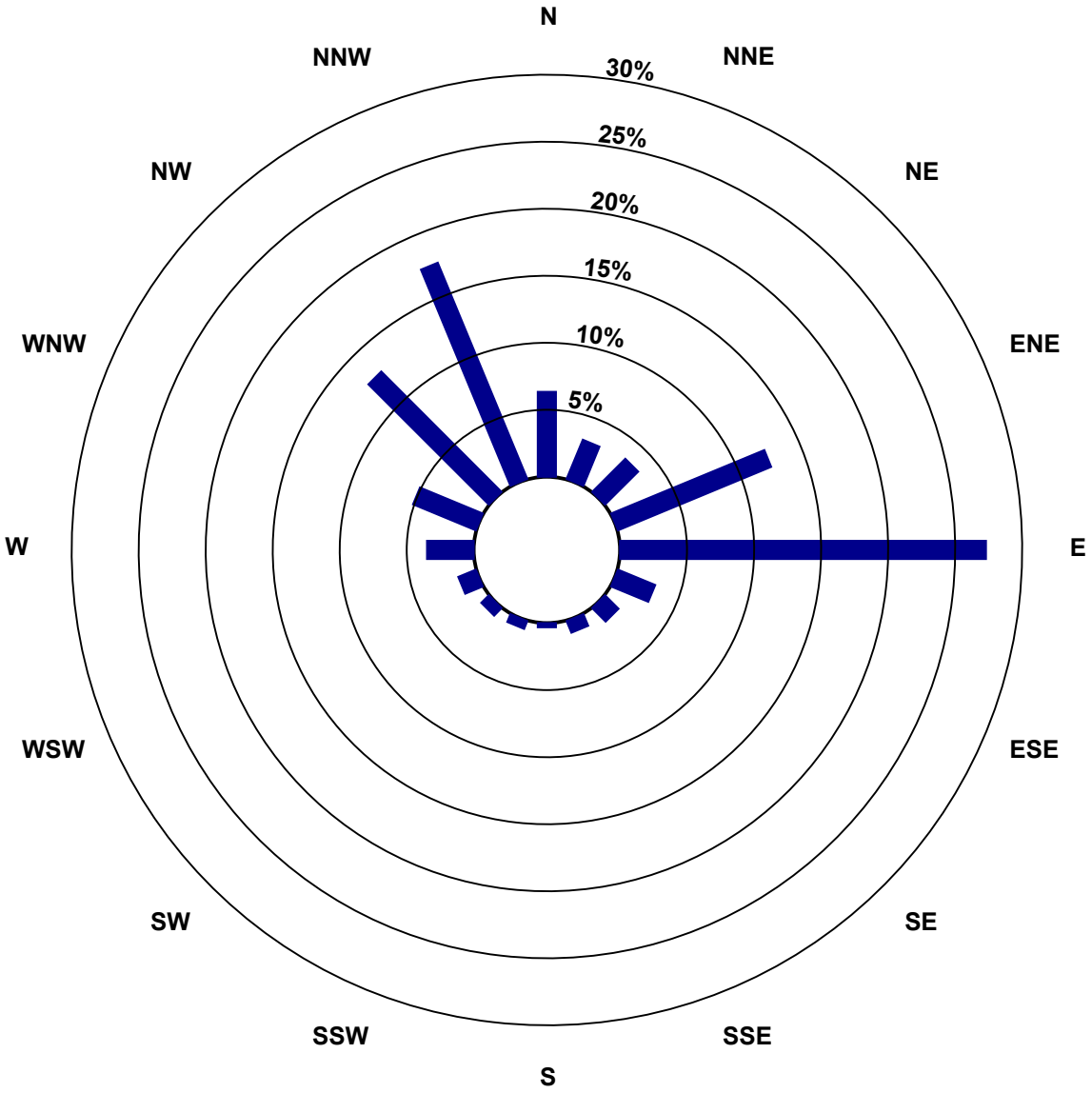
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Fort Chipewyan



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

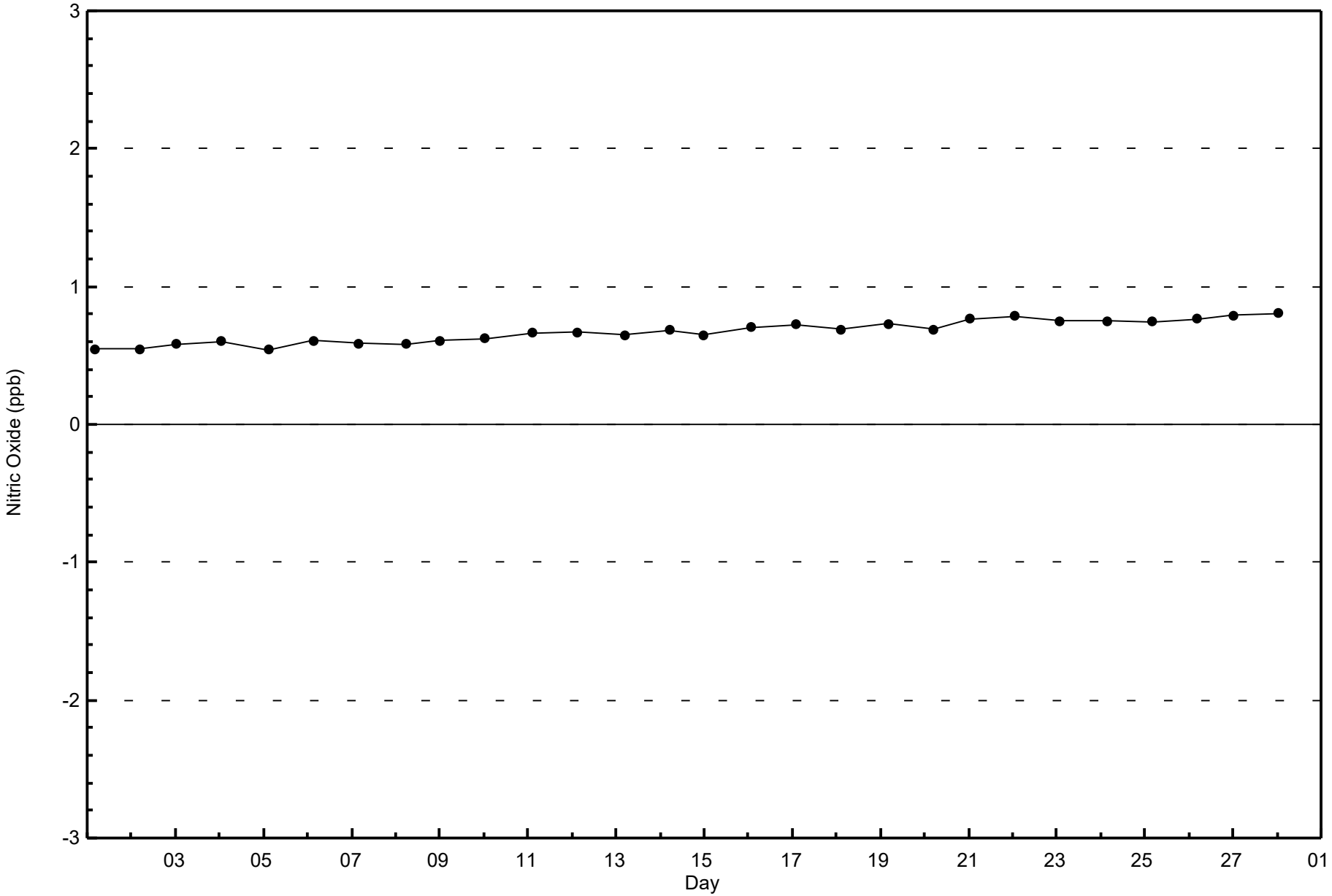
Total Number of Valid Hours: 630

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Fort Chipewyan - February 2026

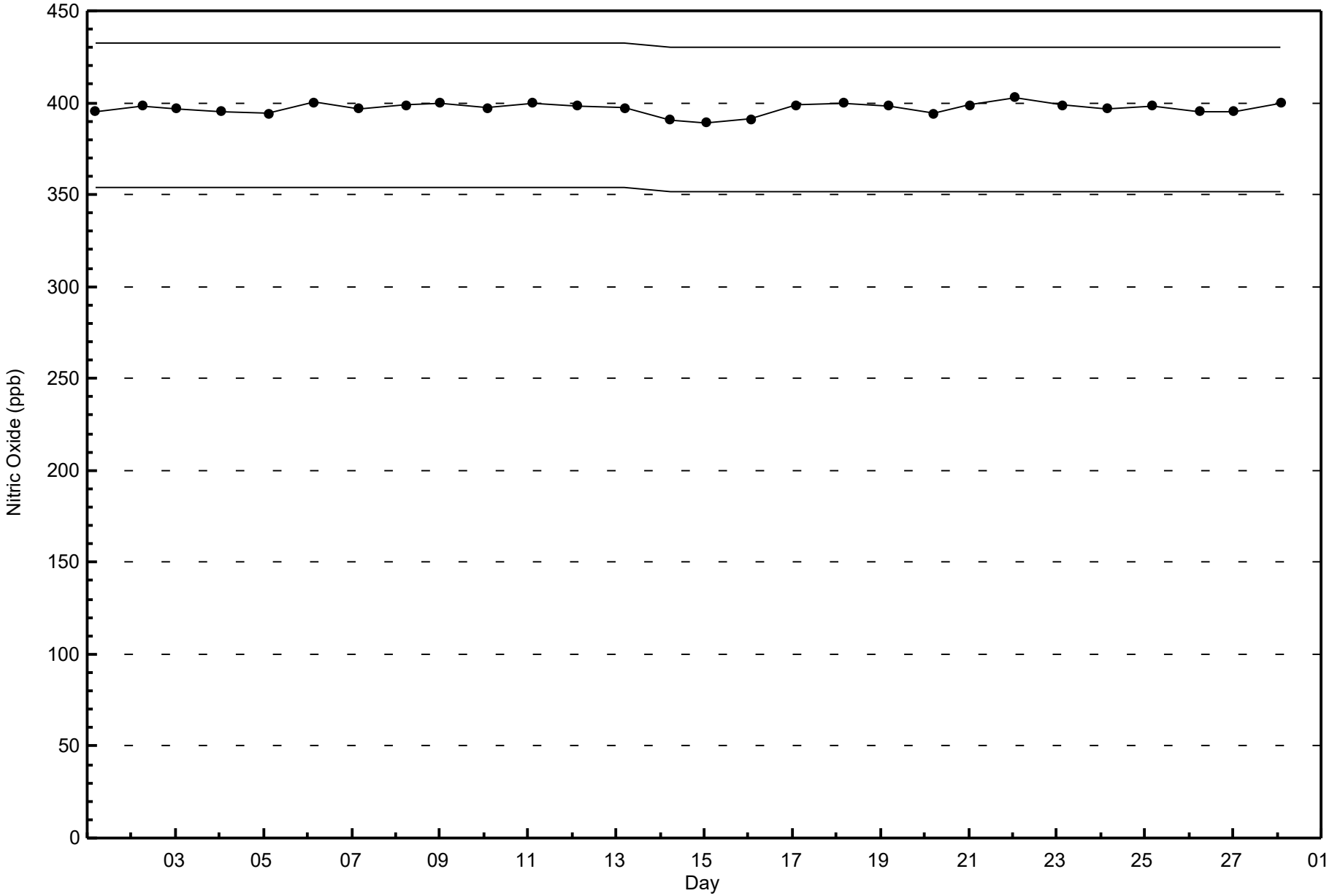


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Fort Chipewyan - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Fort Chipewyan - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 19.8 ppb on Feb 10 21:00 Maximum Daily Average: 5.2 ppb on Feb 10

Minimum Value: 0.1 ppb on Feb 5 06:00 Minimum Daily Average: 0.2 ppb on Feb 18
Maximum Diurnal Average: 2.0 ppb at hour 5 Minimum Diurnal Average: 0.8 ppb at hour 16
Monthly Average: 1.23 ppb Percentiles: P_1 = 0.2 P_{10} = 0.3 Q_1 = 0.3 Median = 0.5 Q_3 = 1.2 P_{90} = 2.5 P_{99} = 13.8

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.7	1.1	1.4	0.7	Z	0.6	0.7	0.3	0.5	0.6	0.5	0.6	1.3	1.5	2.2	1.8	0.7	0.7	0.5	0.3	0.3	0.3	0.3	0.4	0.8	2.2
2-Feb	0.4	0.3	0.4	0.5	0.3	Z	0.4	0.7	0.8	1.1	0.5	0.7	2.2	1.6	0.4	0.5	0.5	0.4	0.5	0.8	1.4	0.9	0.8	0.7	0.7	2.2
3-Feb	Z	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.5	0.4	0.4	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.8	1.0	1.9	0.6	1.9
4-Feb	1.9	Z	2.5	6.0	15.0	6.2	2.2	1.0	1.0	1.2	0.9	1.2	0.5	0.6	0.5	0.4	0.4	0.4	0.3	0.2	0.3	0.3	0.3	0.3	1.9	15.0
5-Feb	0.2	0.2	Z	0.2	0.3	0.1	0.2	0.2	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.8	0.3	0.2	0.3	0.2	0.3	0.3	0.8
6-Feb	0.3	0.3	0.2	Z	0.3	0.2	0.3	0.5	0.6	0.7	0.3	0.5	0.4	0.7	0.8	1.2	1.1	1.9	1.5	0.5	1.1	1.0	1.7	0.3	0.7	1.9
7-Feb	0.3	0.3	0.3	0.3	Z	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.9	0.6	0.6	0.3	0.3	0.4	0.4	0.4	0.9
8-Feb	0.4	0.3	0.3	0.3	0.6	Z	0.5	1.7	0.4	0.2	0.3	0.3	0.4	0.3	0.5	0.3	0.4	0.5	0.4	0.5	0.4	0.4	0.7	0.4	0.5	1.7
9-Feb	Z	0.3	0.4	0.3	0.3	0.3	0.9	0.5	0.4	0.5	0.4	0.7	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	1.0	2.1	0.5	0.5	2.1
10-Feb	0.5	Z	0.5	0.5	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.6	0.8	0.9	3.8	12.0	14.5	16.1	19.8	16.7	16.4	14.5	5.2	19.8
11-Feb	12.6	10.0	Z	10.3	10.0	7.6	3.8	2.9	1.7	4.8	1.1	1.6	1.5	0.7	0.8	0.8	0.8	3.6	2.4	1.2	0.6	1.3	1.1	1.2	3.6	12.6
12-Feb	0.7	0.6	0.9	Z	1.7	0.7	1.3	1.1	1.2	2.2	1.0	2.1	1.0	0.9	1.6	1.1	1.1	1.3	1.9	2.4	2.2	2.1	2.4	1.8	1.4	2.4
13-Feb	1.3	1.3	1.1	1.0	Z	0.7	0.7	0.7	1.2	1.0	1.2	1.2	C	C	C	C	C	C	0.4	0.7	0.7	0.6	0.5	0.7	--	1.3
14-Feb	0.7	0.9	1.1	0.5	2.1	Z	0.5	0.4	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.5	2.1
15-Feb	Z	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.5	0.6	0.5	0.5	0.7	0.4	0.4	0.4	0.7
16-Feb	0.8	Z	0.9	0.9	0.7	0.6	0.4	1.7	7.7	3.6	1.1	0.3	0.3	0.2	0.2	0.2	0.2	0.5	1.8	1.2	2.4	2.9	2.5	1.1	1.4	7.7
17-Feb	0.6	0.4	Z	0.3	0.2	0.2	0.2	0.2	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6
18-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3
19-Feb	0.2	0.2	0.3	0.2	Z	0.3	0.4	0.7	1.3	2.2	2.9	2.8	2.9	2.9	2.6	2.9	3.3	5.2	7.1	5.4	3.6	2.6	1.9	1.8	2.3	7.1
20-Feb	1.8	1.7	1.8	2.5	3.6	Z	7.4	4.5	1.8	0.5	0.3	0.4	0.4	0.5	0.8	0.9	1.1	3.7	2.5	2.8	2.1	1.5	1.9	2.0	2.0	7.4
21-Feb	Z	1.4	1.2	1.1	1.2	1.4	1.4	1.4	1.2	1.0	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.3	0.7	1.4
22-Feb	0.2	Z	0.8	1.4	0.8	0.6	0.6	0.8	0.5	0.5	0.4	0.2	0.2	0.2	0.3	0.5	1.0	1.0	1.1	1.4	0.5	0.4	0.4	0.4	0.6	1.4
23-Feb	0.4	0.5	Z	0.6	0.8	0.9	0.6	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	6.1	3.5	7.5	2.6	1.1	1.2	7.5
24-Feb	0.6	0.3	0.3	Z	0.4	0.5	0.5	0.9	0.6	0.6	0.6	0.5	0.4	0.5	0.4	0.9	0.4	0.5	1.2	1.8	0.9	0.9	1.5	1.8	0.7	1.8
25-Feb	1.9	1.7	1.6	1.4	Z	1.5	1.5	1.7	1.6	1.6	1.4	1.6	1.2	0.9	0.9	2.8	1.3	2.6	1.3	1.1	1.1	1.0	1.0	2.6	1.5	2.8
26-Feb	1.4	2.3	1.4	4.0	3.2	Z	0.8	0.5	0.6	0.5	0.5	0.5	1.0	1.8	2.0	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	1.0	4.0
27-Feb	Z	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.5	0.2	0.2	0.3	0.4	0.8	2.3	3.4	1.4	1.1	1.3	0.7	3.4
28-Feb	1.0	Z	1.6	1.7	2.5	0.7	0.6	2.0	3.2	3.8	4.8	5.9	5.3	4.9	2.8	2.0	1.5	1.7	1.9	1.8	2.1	3.5	7.9	7.5	3.1	7.9
	1.3	1.1	0.9	1.5	2.0	1.1	1.0	1.0	1.1	1.1	0.8	0.9	0.9	0.8	0.8	0.8	0.8	1.5	1.6	1.8	1.8	1.8	1.8	1.6	Diurnal Average	
	12.6	10.0	2.5	10.3	15.0	7.6	7.4	4.5	7.7	4.8	4.8	5.9	5.3	4.9	2.8	2.9	3.8	12.0	14.5	16.1	19.8	16.7	16.4	14.5	Diurnal Maximum	

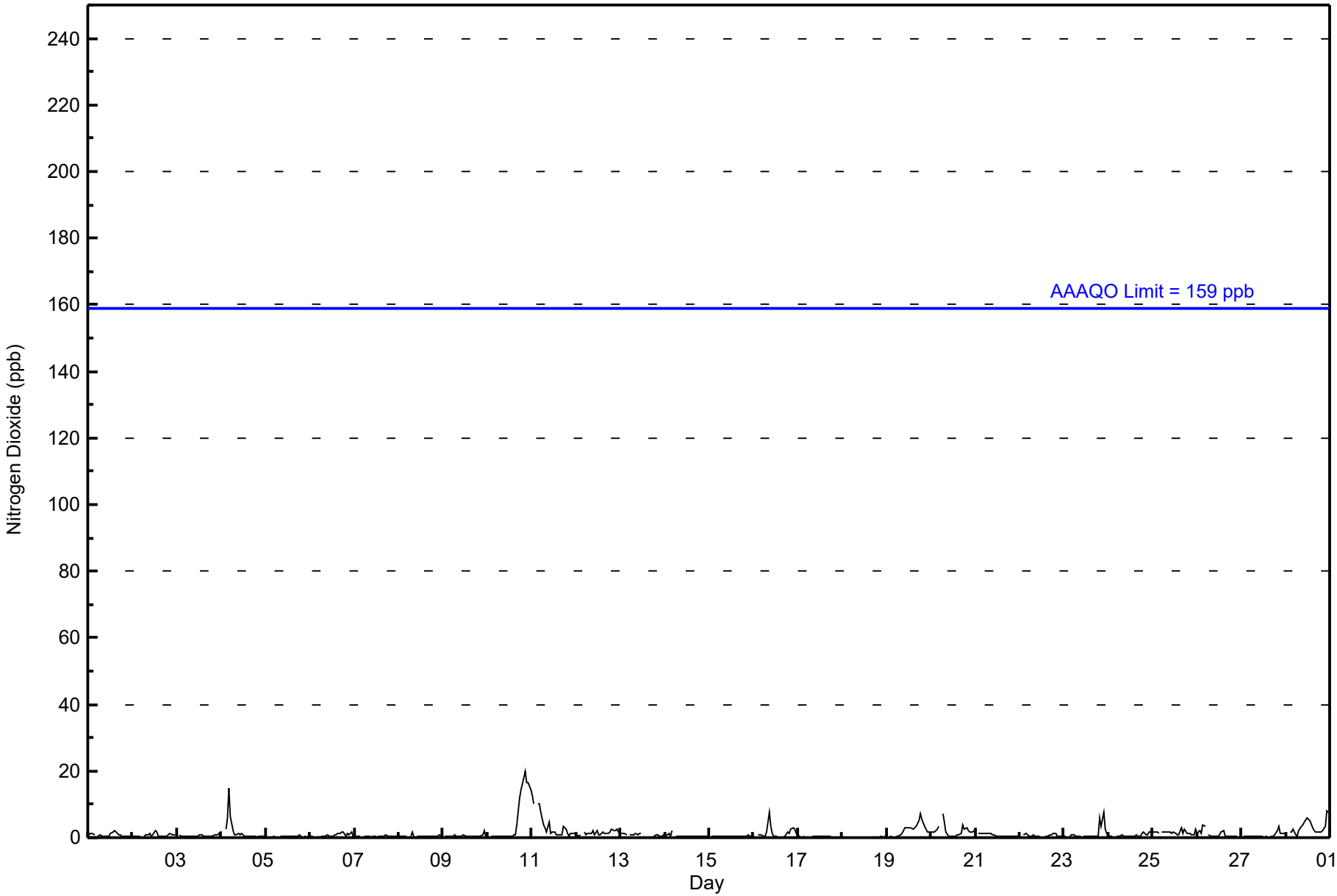
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Fort Chipewyan - February 2026



Nitrogen Dioxide (NO_2) - ppb
Fort Chipewyan - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	638	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Fort Chipewyan - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	40	20	22	78	172	19	9	6	2	4	5	9	22	32	80	110	630
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	40	20	22	78	172	19	9	6	2	4	5	9	22	32	80	110	630

Total Number of Valid Hours: 630

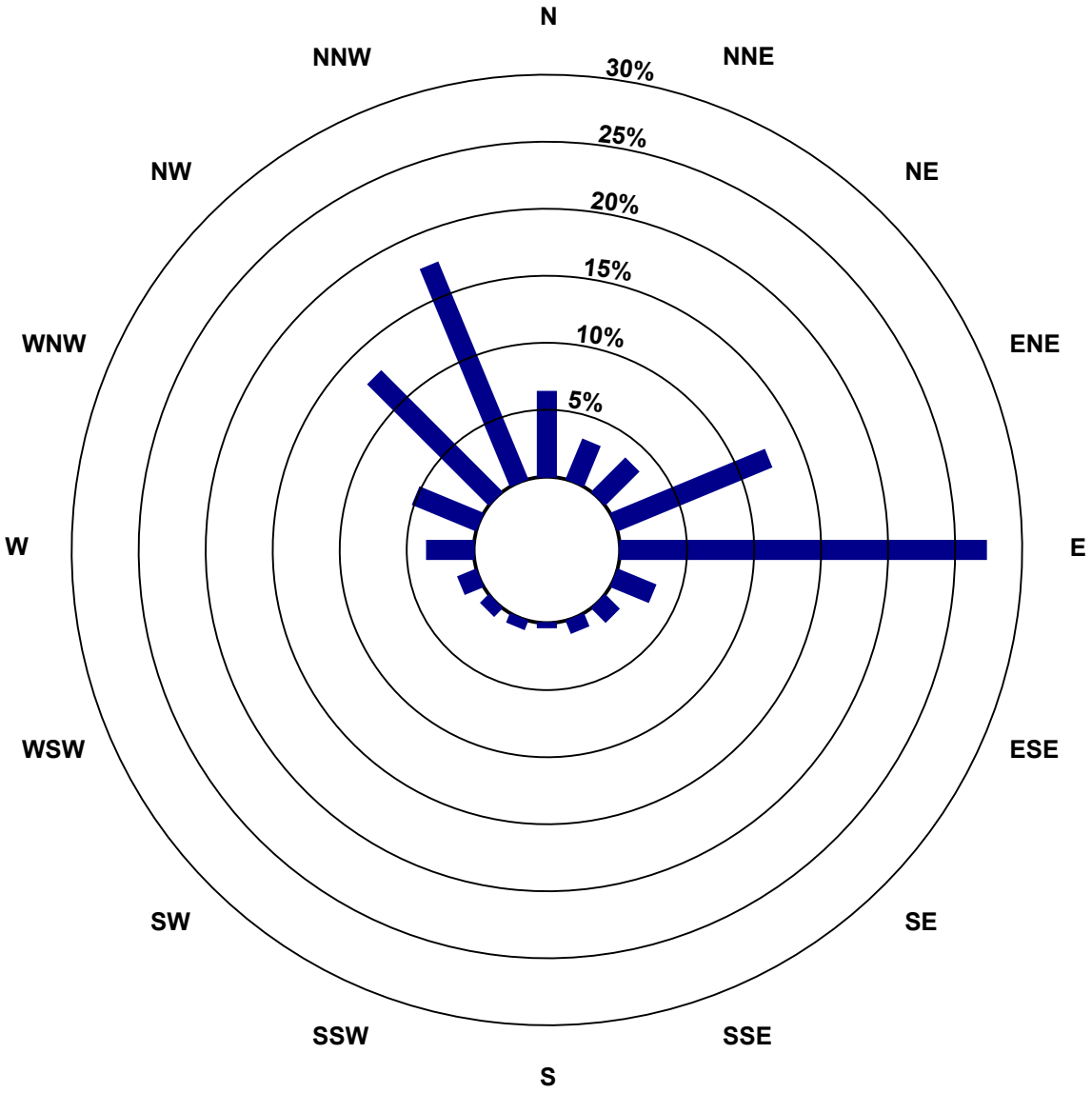
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Fort Chipewyan



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

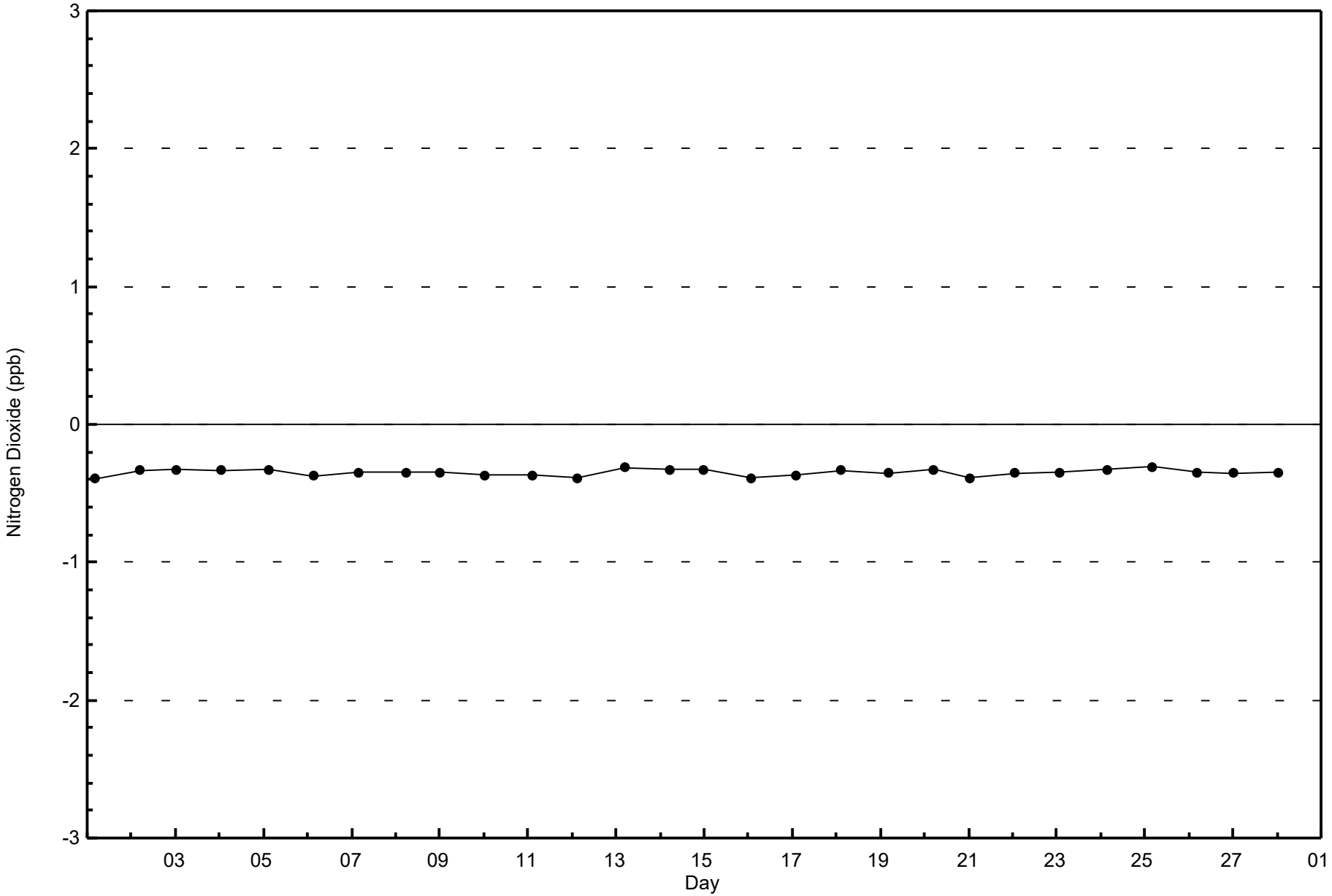
Total Number of Valid Hours: 630

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Fort Chipewyan - February 2026

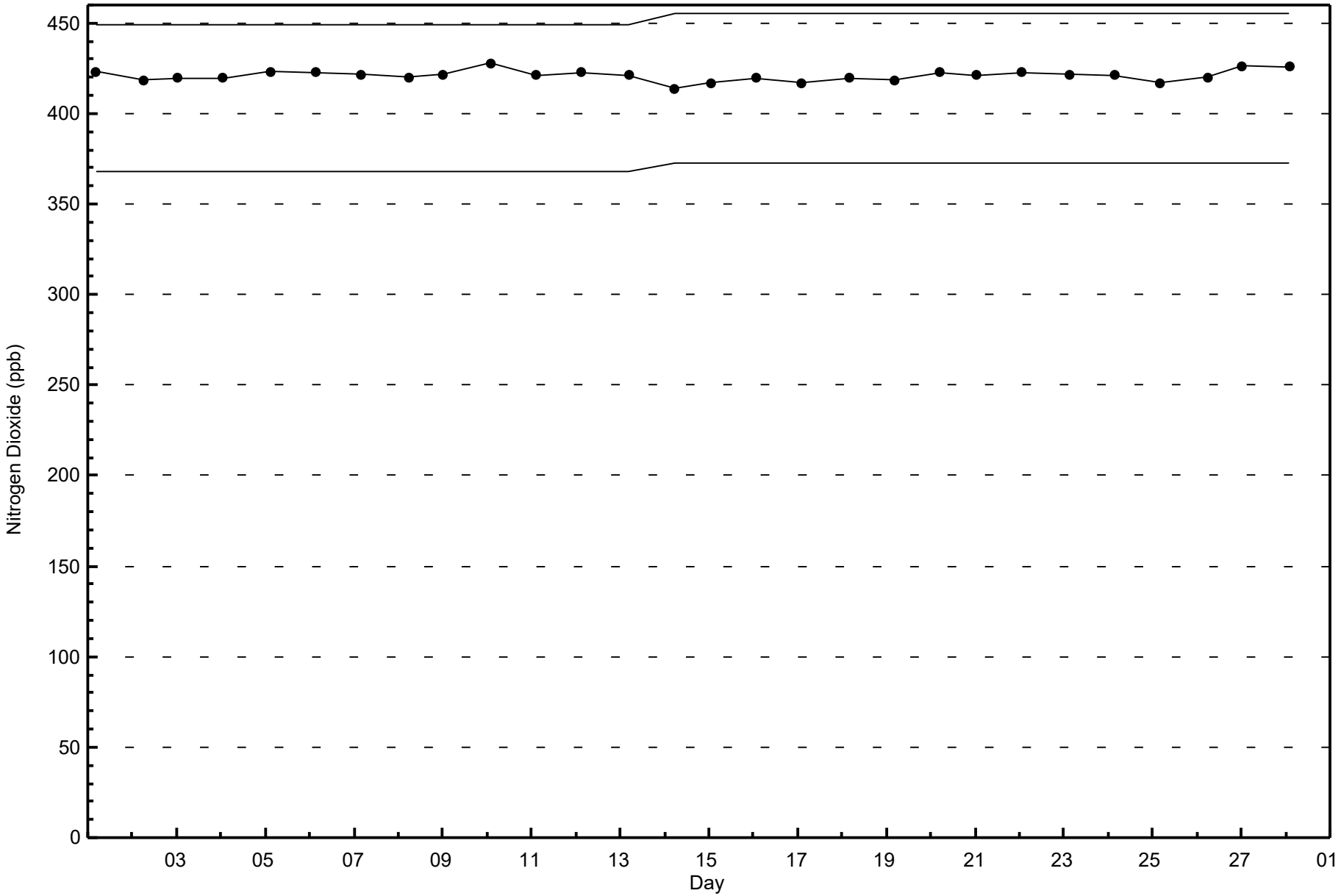


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Fort Chipewyan - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Fort Chipewyan - February 2026

Maximum Value: 20.4 ppb on Feb 10 21:00

Maximum Daily Average: 6.0 ppb on Feb 19

Minimum Value: 0.2 ppb on Feb 18 20:00

Minimum Daily Average: 0.3 ppb on Feb 18

Maximum Diurnal Average: 2.1 ppb at hour 12

Minimum Diurnal Average: 0.9 ppb at hour 3

Monthly Average: 1.56 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.3 Q_1 = 0.4 Median = 0.6 Q_3 = 1.4 P_{90} = 2.8 P_{99} = 16.2

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.7	1.1	1.4	0.7	Z	0.6	0.7	0.3	0.5	0.7	0.6	0.7	1.7	1.9	2.8	2.1	0.7	0.8	0.5	0.3	0.3	0.3	0.3	0.4	0.9	2.8
2-Feb	0.4	0.3	0.4	0.5	0.3	Z	0.4	0.7	0.8	1.2	0.6	0.9	2.8	2.0	0.5	0.5	0.5	0.5	0.5	0.8	1.4	0.9	0.8	0.7	0.8	2.8
3-Feb	Z	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.8	0.9	0.5	0.4	0.4	0.4	0.4	0.4	0.7	0.8	1.0	1.9	0.6	1.9
4-Feb	2.0	Z	2.6	6.1	15.1	6.3	2.3	1.1	1.1	1.5	1.1	1.8	0.7	0.9	0.7	0.5	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.3	2.0	15.1
5-Feb	0.2	0.2	Z	0.3	0.3	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.5	0.5	0.3	0.3	0.3	0.4	0.8	0.3	0.2	0.3	0.2	0.3	0.3	0.8
6-Feb	0.3	0.3	0.2	Z	0.3	0.2	0.3	0.5	0.7	0.8	0.4	0.7	0.5	1.0	1.0	1.5	1.2	2.0	1.5	0.5	1.1	1.0	1.7	0.3	0.8	2.0
7-Feb	0.3	0.3	0.3	0.4	Z	0.5	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.9	0.6	0.6	0.4	0.4	0.4	0.5	0.4	0.9
8-Feb	0.5	0.4	0.4	0.4	0.7	Z	0.6	1.7	0.4	0.3	0.4	0.4	0.5	0.4	0.8	0.4	0.5	0.6	0.4	0.6	0.4	0.5	0.8	0.4	0.5	1.7
9-Feb	Z	0.4	0.4	0.3	0.3	0.3	0.9	0.5	0.5	0.6	0.4	0.9	0.5	0.6	0.4	0.3	0.4	0.3	0.3	0.3	0.3	1.0	2.1	0.5	0.5	2.1
10-Feb	0.5	Z	0.5	0.5	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.5	0.7	1.0	1.1	4.3	12.3	14.6	16.3	20.4	16.9	16.6	14.6	5.4	20.4
11-Feb	12.9	10.1	Z	10.6	10.2	7.6	3.8	2.9	1.8	5.8	1.4	2.4	2.3	0.9	0.9	0.9	0.8	3.6	2.4	1.2	0.6	1.3	1.1	1.2	3.8	12.9
12-Feb	0.7	0.6	0.9	Z	1.7	0.7	1.3	1.1	1.3	2.9	1.3	3.6	1.6	1.2	2.5	1.3	1.2	1.4	2.0	2.5	2.3	2.2	2.5	1.8	1.7	3.6
13-Feb	1.3	1.3	1.2	1.1	Z	0.8	0.8	0.8	1.4	1.3	1.8	2.8	C	C	C	C	C	C	0.4	0.7	0.7	0.6	0.5	0.7	--	2.8
14-Feb	0.7	0.9	1.1	0.5	2.1	Z	0.5	0.4	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.5	2.1
15-Feb	Z	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.7	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.6	0.7	0.5	0.5	0.8	0.4	0.4	0.5	0.8
16-Feb	0.8	Z	1.0	0.9	0.7	0.7	0.4	1.7	12.5	6.7	2.1	0.4	0.3	0.2	0.2	0.2	0.2	0.5	1.8	1.2	2.5	3.1	2.9	1.3	1.8	12.5
17-Feb	0.6	0.4	Z	0.3	0.2	0.2	0.2	0.2	0.5	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6
18-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.5	0.3	0.4	0.3	0.5
19-Feb	0.3	0.3	0.3	0.2	Z	0.3	0.5	0.8	3.0	9.7	15.8	16.3	16.6	14.3	11.3	9.8	7.0	7.3	8.2	5.5	3.6	2.6	1.9	1.8	6.0	16.6
20-Feb	1.8	1.7	1.8	2.6	3.9	Z	9.8	4.9	2.6	0.7	0.5	0.7	0.6	0.9	1.5	1.5	1.5	4.1	2.5	2.9	2.2	1.5	1.9	2.0	2.4	9.8
21-Feb	Z	1.4	1.2	1.1	1.2	1.4	1.4	1.4	1.4	1.3	0.9	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.3	0.7	1.4
22-Feb	0.2	Z	0.9	1.5	0.9	0.7	0.8	1.1	0.9	1.1	0.8	0.3	0.3	0.2	0.3	0.8	1.6	1.5	1.4	1.7	0.6	0.5	0.5	0.5	0.8	1.7
23-Feb	0.5	0.6	Z	0.7	0.8	0.9	0.6	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	6.3	3.5	7.6	2.6	1.1	1.2	7.6
24-Feb	0.6	0.3	0.3	Z	0.4	0.5	0.5	1.0	0.7	0.8	0.9	0.9	0.8	0.8	0.6	1.6	0.5	0.5	1.2	1.9	1.0	1.0	1.5	1.8	0.9	1.9
25-Feb	1.9	1.7	1.6	1.5	Z	1.6	1.6	1.8	1.9	2.2	2.3	2.4	1.8	1.3	1.2	3.6	1.5	2.7	1.3	1.1	1.1	1.0	1.0	2.7	1.8	3.6
26-Feb	1.4	2.3	1.4	4.0	3.2	Z	0.8	0.5	0.7	0.6	0.6	0.7	1.5	2.8	2.7	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	1.1	4.0
27-Feb	Z	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.7	0.7	0.5	0.7	0.3	0.7	0.3	0.2	0.3	0.4	0.8	2.8	4.0	1.5	1.3	1.5	0.8	4.0
28-Feb	1.2	Z	1.6	1.7	2.5	0.7	0.6	2.3	5.3	9.3	14.5	19.3	16.0	13.4	6.4	3.6	2.2	1.9	1.9	1.8	2.1	3.5	7.9	7.5	5.5	19.3
	1.3	1.1	0.9	1.5	2.0	1.1	1.1	1.0	1.5	1.8	1.8	2.1	2.0	1.8	1.4	1.2	1.0	1.7	1.7	1.9	1.8	1.8	1.8	1.6	Diurnal Average	
	12.9	10.1	2.6	10.6	15.1	7.6	9.8	4.9	12.5	9.7	15.8	19.3	16.6	14.3	11.3	9.8	7.0	12.3	14.6	16.3	20.4	16.9	16.6	14.6	Diurnal Maximum	

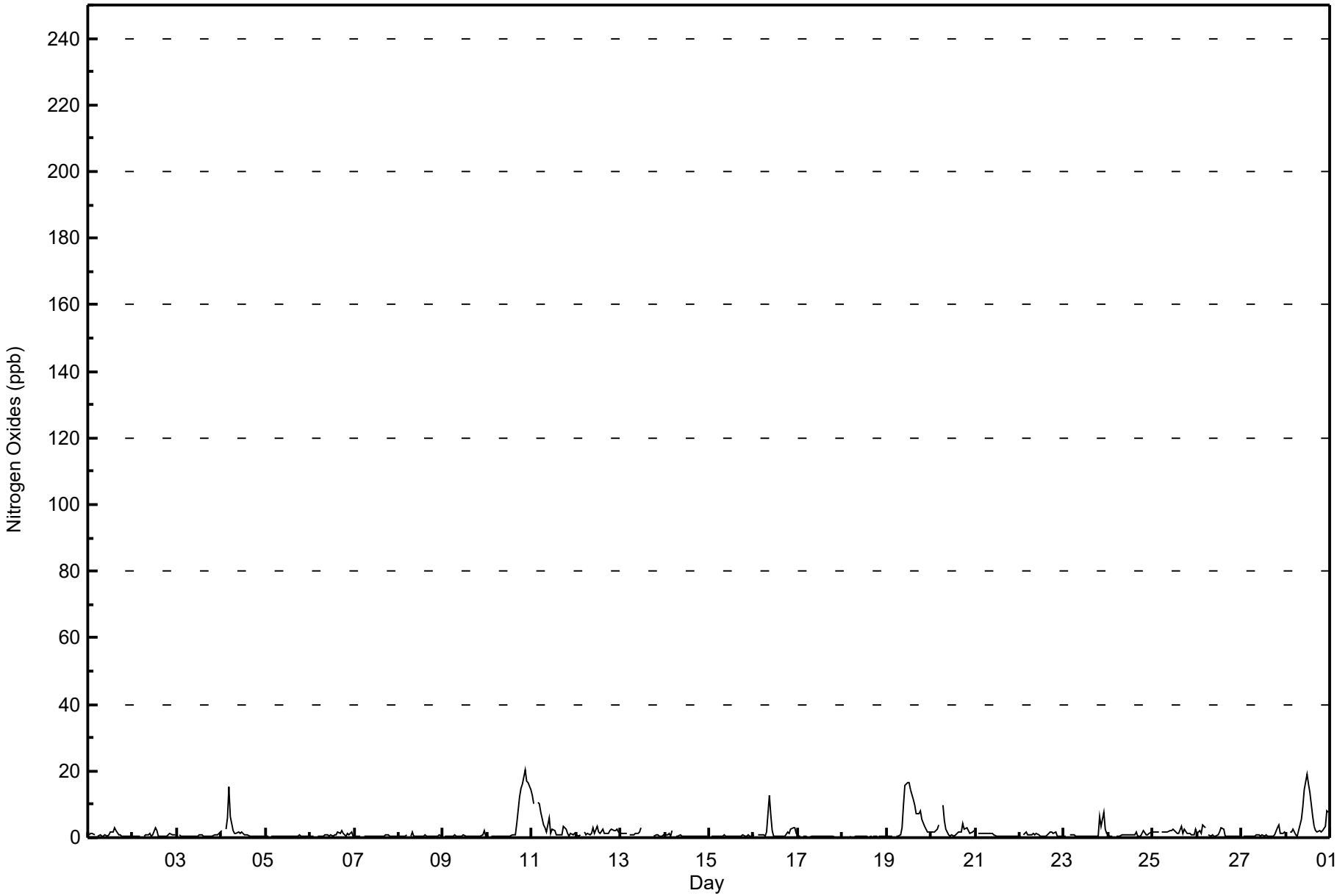
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Fort Chipewyan - February 2026



Nitrogen Oxides (NO_X) - ppb
Fort Chipewyan - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	638	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Nitrogen Oxides (NO_X) - ppb

Fort Chipewyan - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	40	20	22	78	172	19	9	6	2	4	5	9	22	32	80	110	630
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	40	20	22	78	172	19	9	6	2	4	5	9	22	32	80	110	630

Total Number of Valid Hours: 630

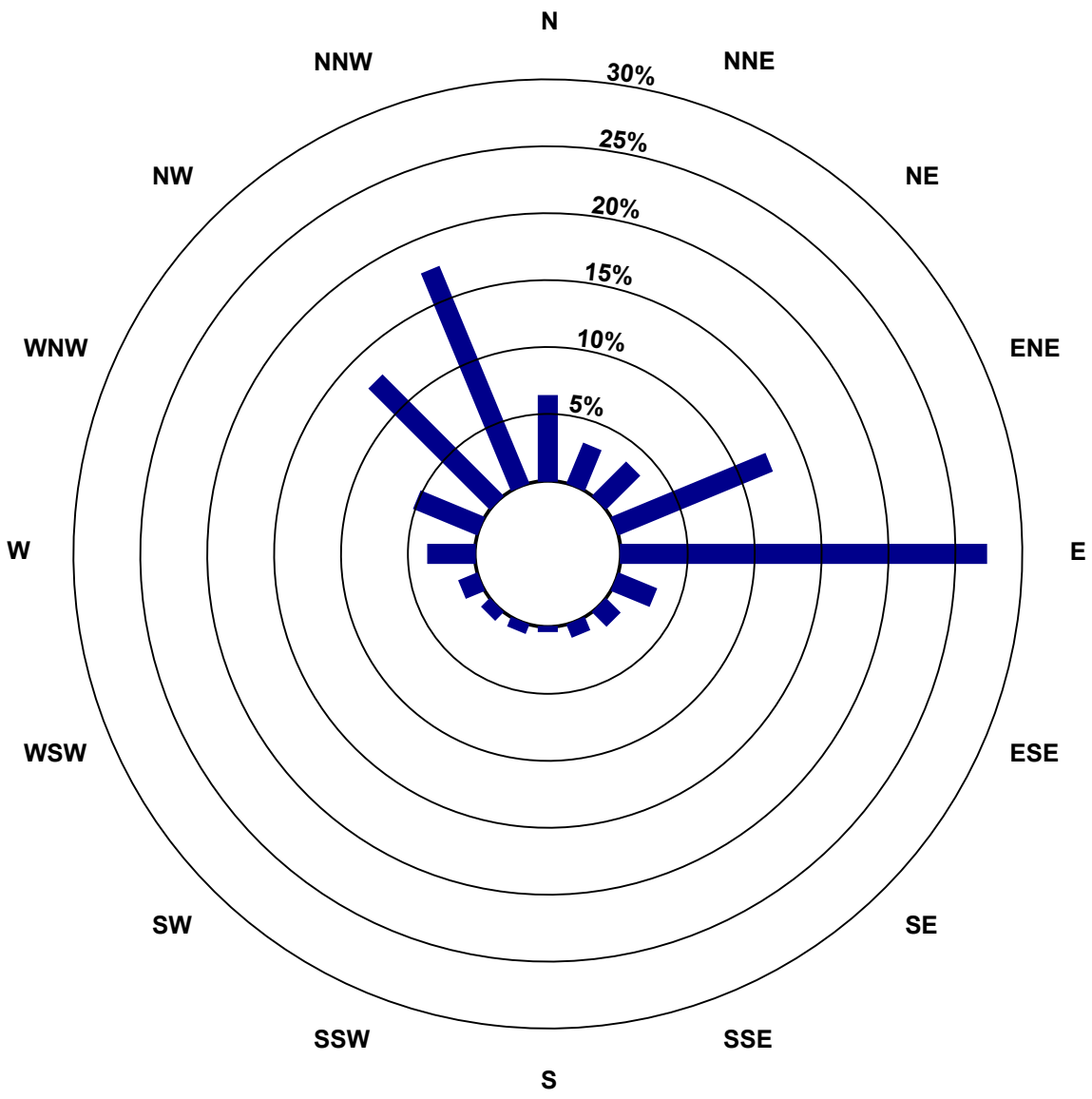
Total Number of Hours: 672

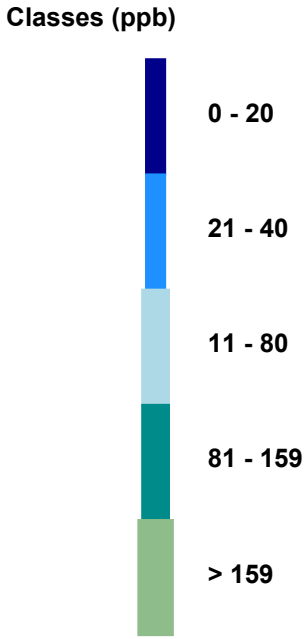
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Fort Chipewyan





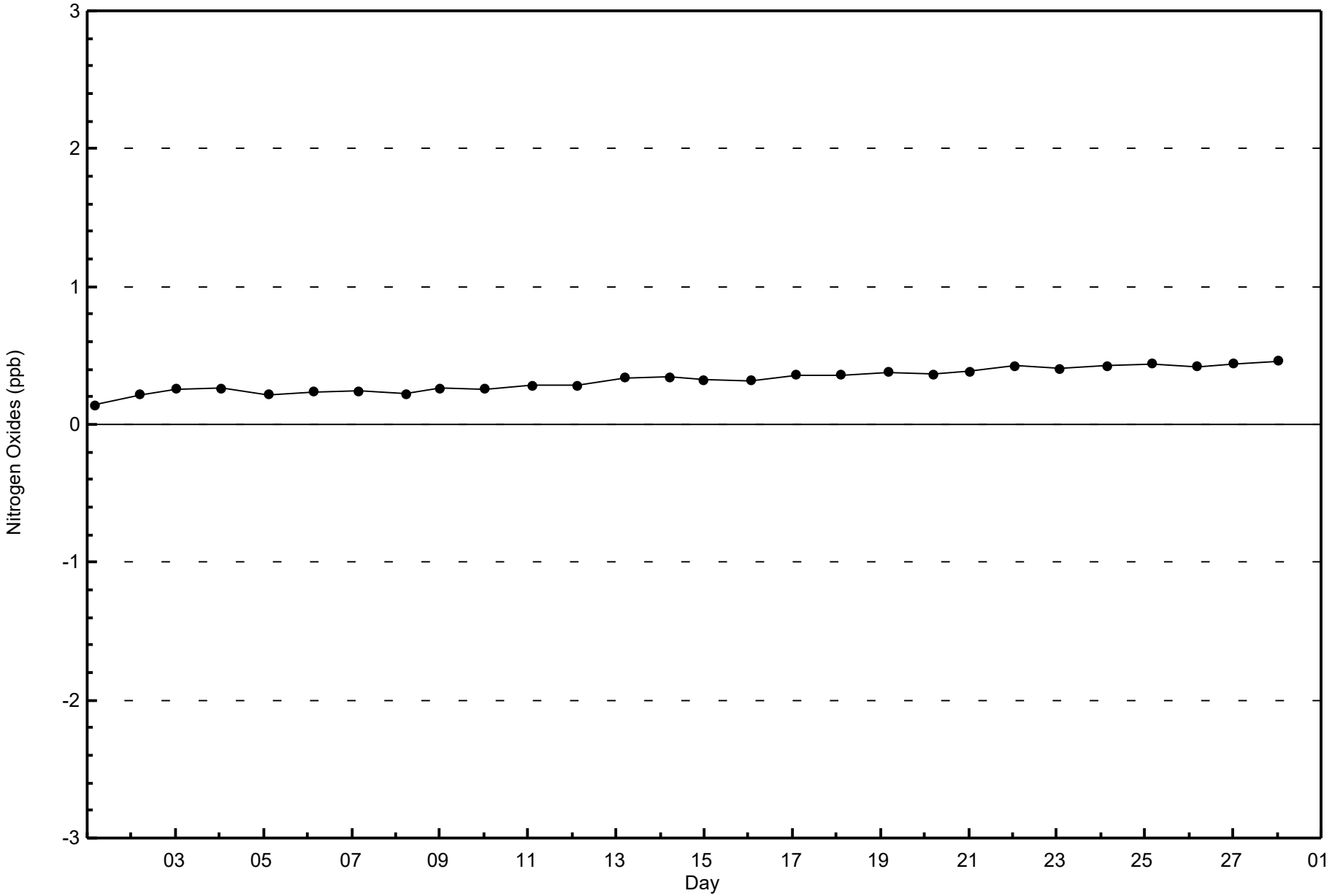
Total Number of Valid Hours: 630

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Fort Chipewyan - February 2026

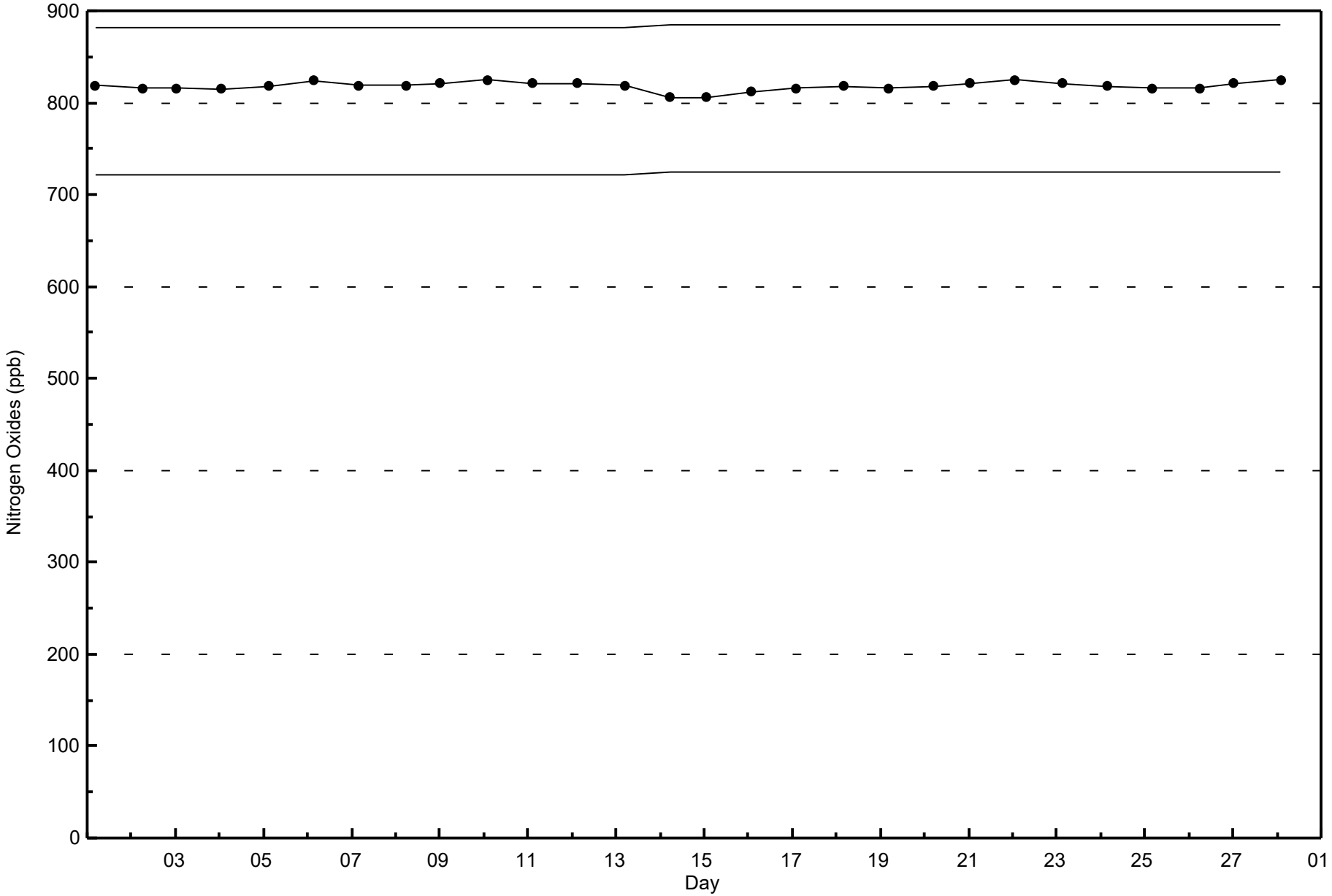


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Fort Chipewyan - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ozone (O_3) - ppb

Fort Chipewyan - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 40.9 ppb on Feb 9 18:00 Maximum Daily Average: 38.2 ppb on Feb 9

Minimum Value: 2.4 ppb on Feb 18 00:00 Minimum Daily Average: 5.1 ppb on Feb 18
Maximum Diurnal Average: 27.6 ppb at hour 17 Minimum Diurnal Average: 25.1 ppb at hour 5
Monthly Average: 26.68 ppb Percentiles: P_1 = 3.7 P_{10} = 9.8 Q_1 = 19.9 Median = 30.4 Q_3 = 34.9 P_{90} = 37.6 P_{99} = 40.1

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	37.3	36.7	Z	36.7	36.3	36.6	36.9	37.5	37.0	37.6	38.1	38.5	38.5	39.0	36.6	36.3	38.4	38.7	39.6	40.0	40.0	40.0	40.0	39.8	38.1	40.0
2-Feb	39.6	39.3	38.9	Z	38.6	38.3	38.0	37.6	37.4	37.2	37.6	37.0	35.2	35.5	36.8	36.7	36.7	36.7	36.3	34.9	31.6	32.3	32.3	32.4	36.4	39.6
3-Feb	33.8	34.6	34.7	34.9	Z	35.4	35.1	34.9	34.9	35.0	35.3	35.4	35.8	36.0	36.4	36.5	36.4	36.1	35.9	35.6	34.1	33.6	31.3	26.7	34.7	36.5
4-Feb	26.4	26.8	26.7	23.7	15.1	Z	27.7	30.9	32.0	31.5	31.9	30.9	31.5	31.3	32.6	33.3	32.4	32.4	33.8	34.7	35.1	35.5	35.7	35.9	30.8	35.9
5-Feb	Z	36.3	36.3	36.4	36.6	36.7	37.1	37.6	38.1	38.3	38.5	38.4	38.3	38.3	38.2	38.3	38.1	37.8	37.8	38.6	38.6	38.6	38.5	38.4	37.8	38.6
6-Feb	38.2	Z	37.5	37.3	37.2	37.1	36.8	36.5	36.2	36.1	35.9	35.3	35.1	35.0	35.3	34.5	34.2	33.5	34.0	34.3	33.6	33.8	32.0	34.0	35.4	38.2
7-Feb	33.6	33.9	Z	34.3	34.5	34.4	34.7	34.9	35.1	35.1	35.5	35.7	35.8	35.9	36.0	35.7	35.7	34.9	35.1	35.4	35.5	35.3	35.0	34.7	35.1	36.0
8-Feb	34.5	34.4	34.6	Z	34.2	34.0	34.3	34.0	36.9	38.0	37.7	36.9	37.2	37.0	36.1	36.0	34.7	33.5	33.2	33.5	33.4	33.5	33.2	33.3	35.0	38.0
9-Feb	34.3	35.6	36.3	36.5	Z	36.9	37.0	37.1	37.7	38.0	38.1	38.0	38.2	38.5	38.5	39.5	39.3	40.9	40.4	40.4	40.2	39.5	38.3	39.8	38.2	40.9
10-Feb	39.9	39.9	40.1	40.3	40.4	Z	39.4	38.3	37.9	37.8	37.5	37.1	36.4	33.5	31.8	31.1	27.1	19.2	16.5	14.4	11.7	12.2	11.8	12.2	29.9	40.4
11-Feb	Z	16.6	14.9	14.3	15.5	18.3	24.8	25.9	28.7	25.9	30.0	30.3	31.0	32.6	33.3	33.3	33.4	30.9	32.2	33.8	34.8	34.4	34.8	34.1	28.0	34.8
12-Feb	34.5	Z	33.8	32.6	30.5	33.2	30.9	30.1	28.5	C	C	C	27.5	28.3	28.3	29.4	32.1	31.1	32.4	33.2	33.8	33.3	31.2	32.8	31.4	34.5
13-Feb	35.0	33.8	Z	31.2	31.2	32.1	31.9	31.8	31.5	31.3	32.2	32.6	32.3	32.2	32.5	33.1	33.6	33.4	34.5	34.1	34.6	35.4	35.0	34.0	33.0	35.4
14-Feb	33.8	33.8	33.5	Z	33.6	34.9	34.4	34.3	31.3	29.9	31.0	31.4	31.4	31.6	32.1	31.2	30.9	29.4	30.4	29.5	30.5	30.4	30.6	32.2	31.8	34.9
15-Feb	33.5	33.8	33.5	33.0	Z	32.5	31.2	29.8	29.0	27.8	26.9	26.1	25.7	25.3	25.8	25.4	25.2	24.9	25.0	25.0	24.3	22.0	20.7	20.4	27.3	33.8
16-Feb	19.4	19.7	18.9	19.0	18.8	Z	19.6	18.3	12.7	16.1	18.0	18.1	17.5	17.8	20.1	20.7	20.3	22.3	21.3	21.8	19.2	18.6	18.5	17.4	18.9	22.3
17-Feb	Z	16.6	16.7	17.0	17.4	17.8	18.4	19.5	19.7	20.9	22.9	24.4	25.0	24.4	23.5	22.5	20.9	15.7	12.4	5.4	3.2	2.7	2.5	2.4	16.2	25.0
18-Feb	2.6	Z	3.0	3.5	4.2	4.3	4.3	5.0	5.4	5.3	5.2	5.4	5.4	5.3	5.0	4.9	5.2	6.3	5.7	5.3	5.7	6.3	7.4	7.5	5.1	7.5
19-Feb	6.0	5.3	Z	5.0	5.2	5.3	5.1	5.1	6.1	7.6	8.3	9.1	9.5	10.3	10.1	10.2	10.5	7.1	3.9	5.7	8.1	9.1	9.5	9.8	7.5	10.5
20-Feb	9.7	10.1	10.6	Z	10.3	11.7	7.4	10.3	13.5	16.3	17.8	18.9	20.4	21.4	21.9	22.2	22.6	20.9	21.8	20.9	20.8	20.4	19.6	18.9	16.9	22.6
21-Feb	18.3	20.7	22.0	23.1	Z	22.1	22.6	21.7	20.0	19.9	21.2	22.9	26.6	22.4	18.9	17.5	16.1	14.4	11.2	9.2	8.3	8.1	7.9	8.6	17.6	26.6
22-Feb	9.6	10.0	10.3	12.0	12.9	Z	9.8	9.4	9.4	9.0	10.7	13.9	12.1	9.7	11.1	13.8	14.9	15.0	16.1	18.0	21.2	22.1	22.2	23.2	13.8	23.2
23-Feb	Z	24.5	25.0	25.8	26.1	26.1	25.6	25.5	25.4	25.0	25.0	25.7	26.1	26.5	26.2	26.1	25.5	25.6	26.0	20.0	22.4	19.6	24.0	24.9	24.9	26.5
24-Feb	25.3	Z	24.2	23.4	22.8	21.0	19.8	19.5	20.4	21.5	21.5	19.6	20.3	21.3	24.7	25.0	25.7	25.9	25.0	24.0	25.5	25.8	25.6	25.7	23.2	25.9
25-Feb	25.9	26.5	Z	27.9	28.4	28.6	28.5	28.4	28.6	28.8	29.4	29.7	30.4	30.6	31.2	29.7	31.1	30.1	30.9	30.7	30.7	30.4	30.5	29.3	29.4	31.2
26-Feb	30.4	29.9	32.0	Z	29.2	34.2	34.9	34.9	34.3	33.8	33.1	32.1	30.9	30.4	30.6	31.9	31.5	30.8	29.8	30.7	33.8	35.3	35.4	34.3	32.4	35.4
27-Feb	32.3	30.8	29.2	26.6	Z	18.2	13.0	10.1	8.7	7.9	7.9	8.2	9.3	10.8	14.6	16.1	18.3	19.2	19.4	19.6	19.5	21.2	21.8	21.7	17.6	32.3
28-Feb	22.3	22.3	21.3	20.2	18.4	Z	20.3	19.3	18.8	18.4	17.9	18.0	20.0	21.6	22.6	22.9	23.1	24.2	24.6	24.3	25.4	25.4	22.5	22.1	21.6	25.4
	27.4	27.2	26.7	25.9	25.1	27.4	26.4	26.4	26.3	26.3	26.8	27.0	27.3	27.2	27.5	27.6	27.6	26.8	26.6	26.2	26.3	26.2	26.0	25.9	Diurnal Average	
	39.9	39.9	40.1	40.3	40.4	38.3	39.4	38.3	38.1	38.3	38.5	38.5	38.5	39.0	38.5	39.5	39.3	40.9	40.4	40.4	40.2	40.0	40.0	39.8	Diurnal Maximum	

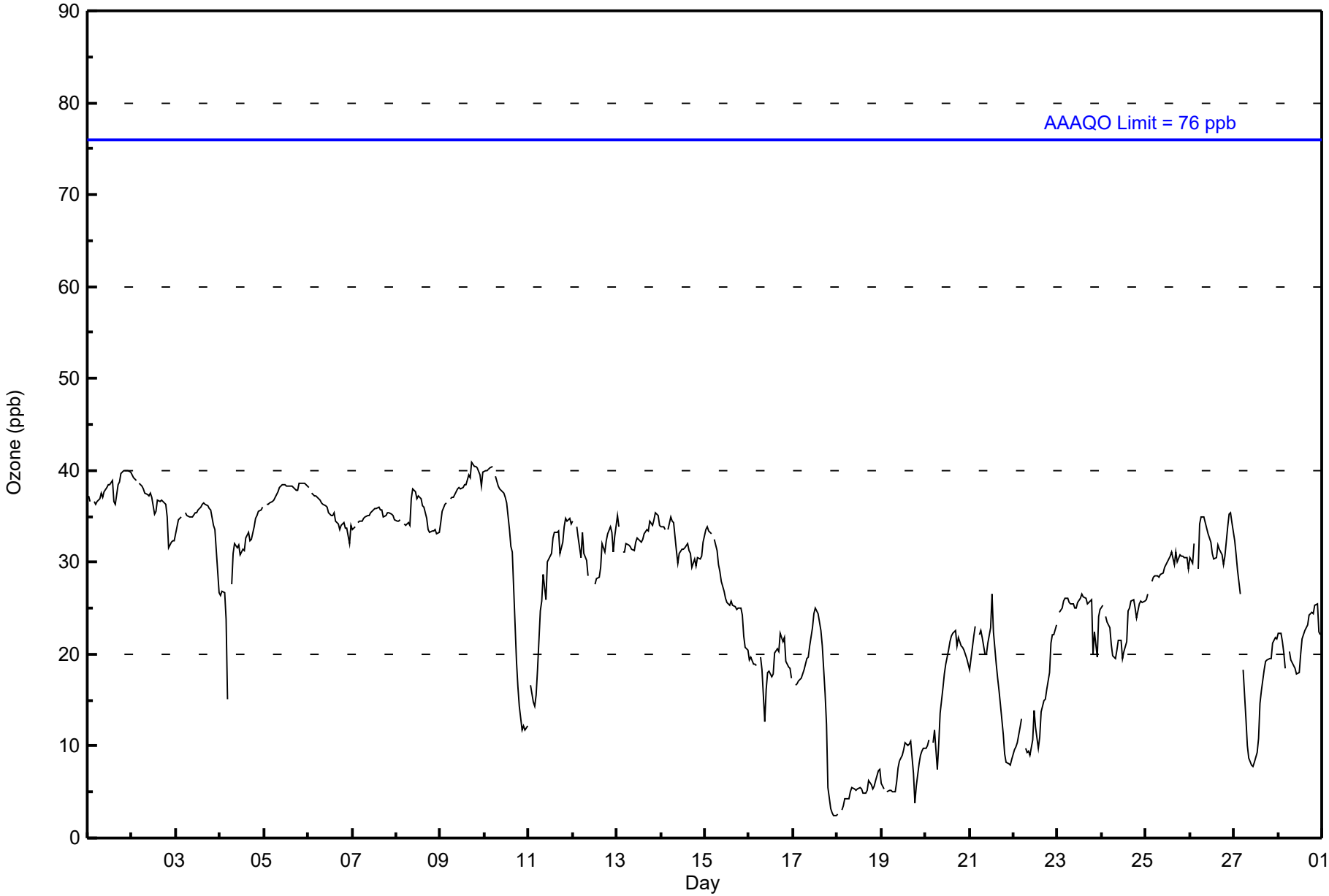
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 76 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ozone (O_3) - ppb

Fort Chipewyan - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	173	26.99	26.99
21 - 50	468	73.01	100.00
51 - 82	0	0.00	100.00
> 83	0	0.00	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	21	1	4	12	46	5	2	3	1	3	2	6	11	9	16	30	172
21 - 50	20	18	19	62	127	14	8	3	0	2	3	3	14	22	63	83	461
51 - 82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	41	19	23	74	173	19	10	6	1	5	5	9	25	31	79	113	633

Total Number of Valid Hours: 633

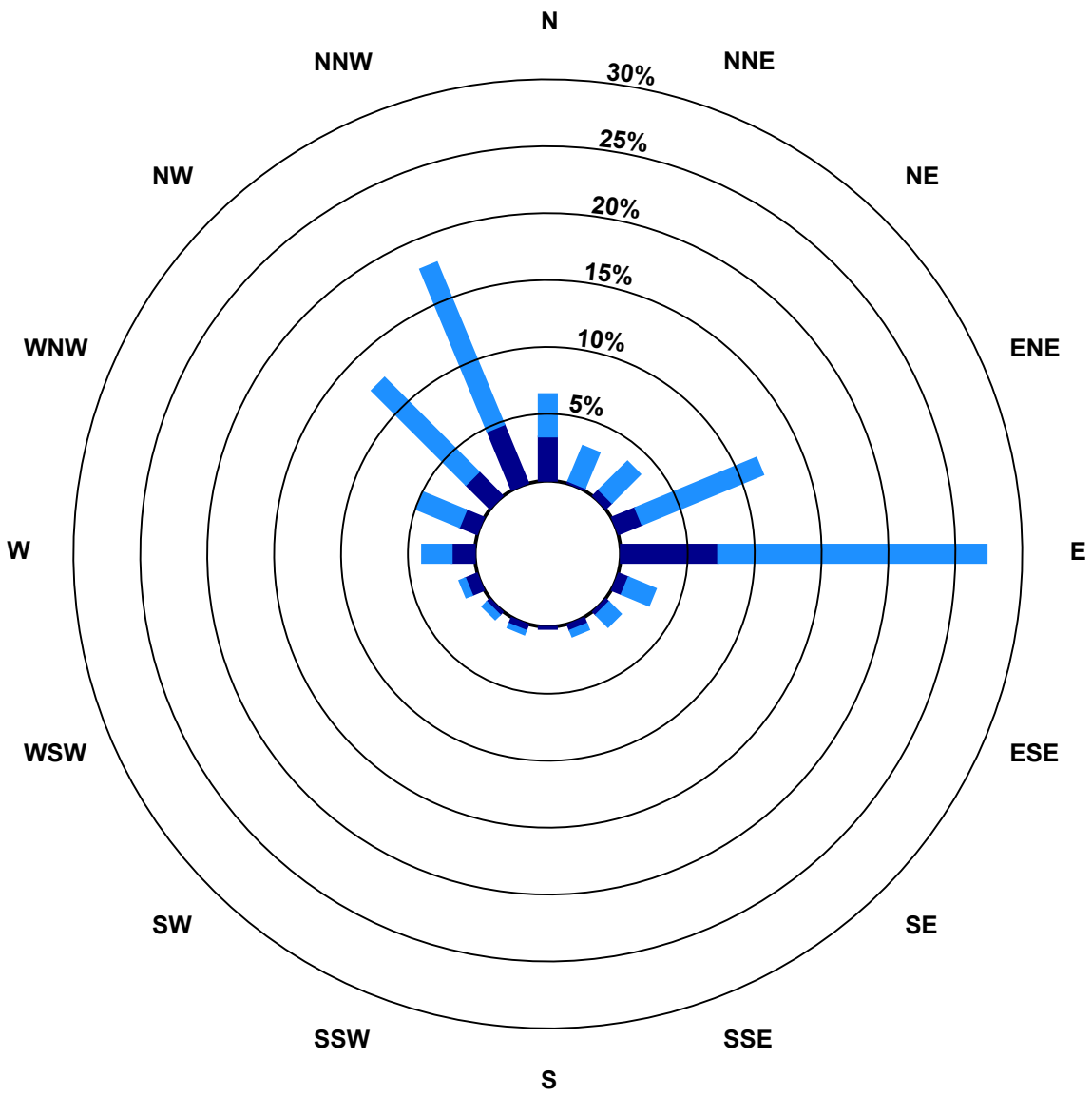
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Ozone (O_3) - ppb

Fort Chipewyan



Classes (ppb)

0 - 20

21 - 50

51 - 82

> 83

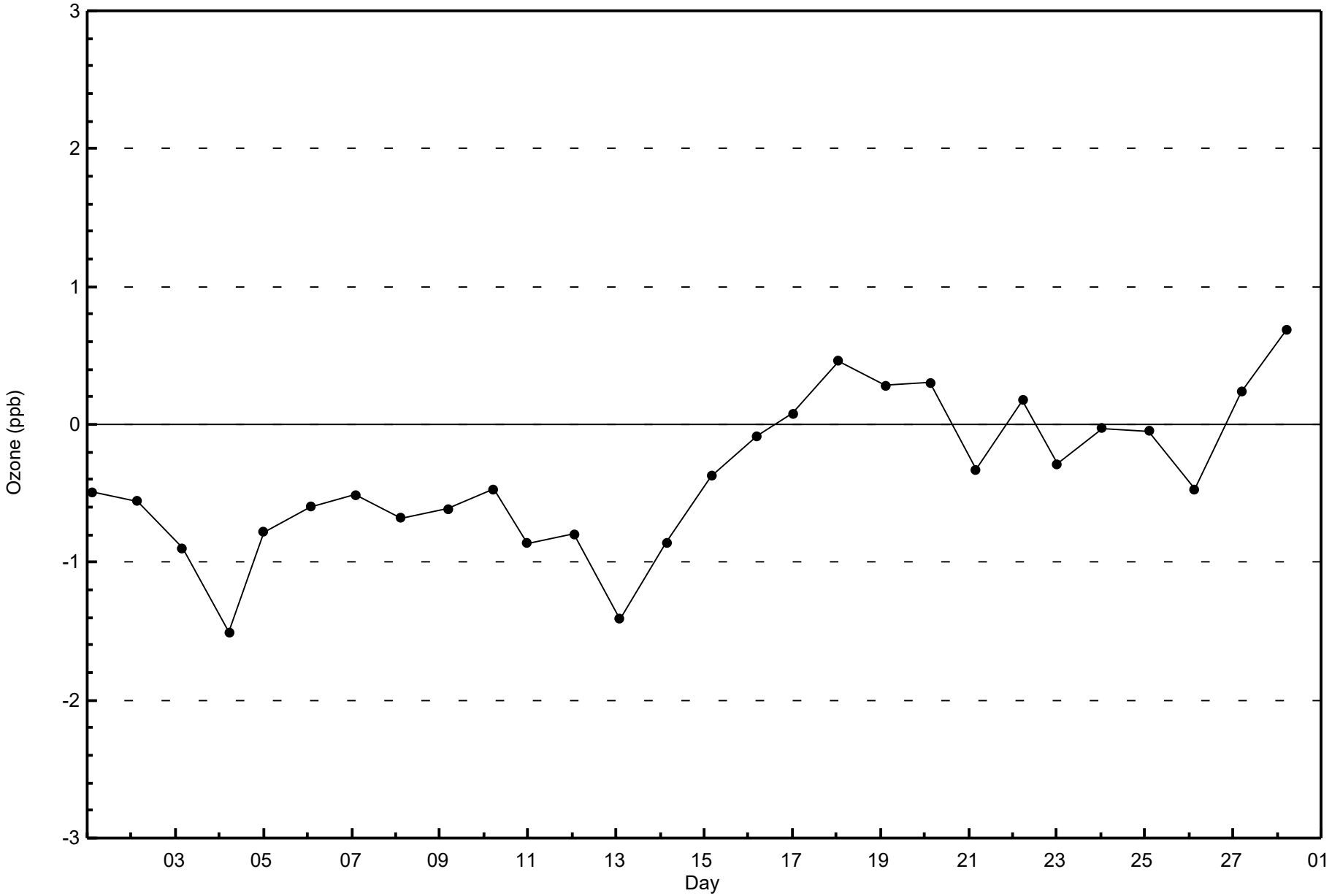
Total Number of Valid Hours: 633

Wood Buffalo Environmental Association

Zero Responses

Ozone (O_3) - ppb

Fort Chipewyan - February 2026

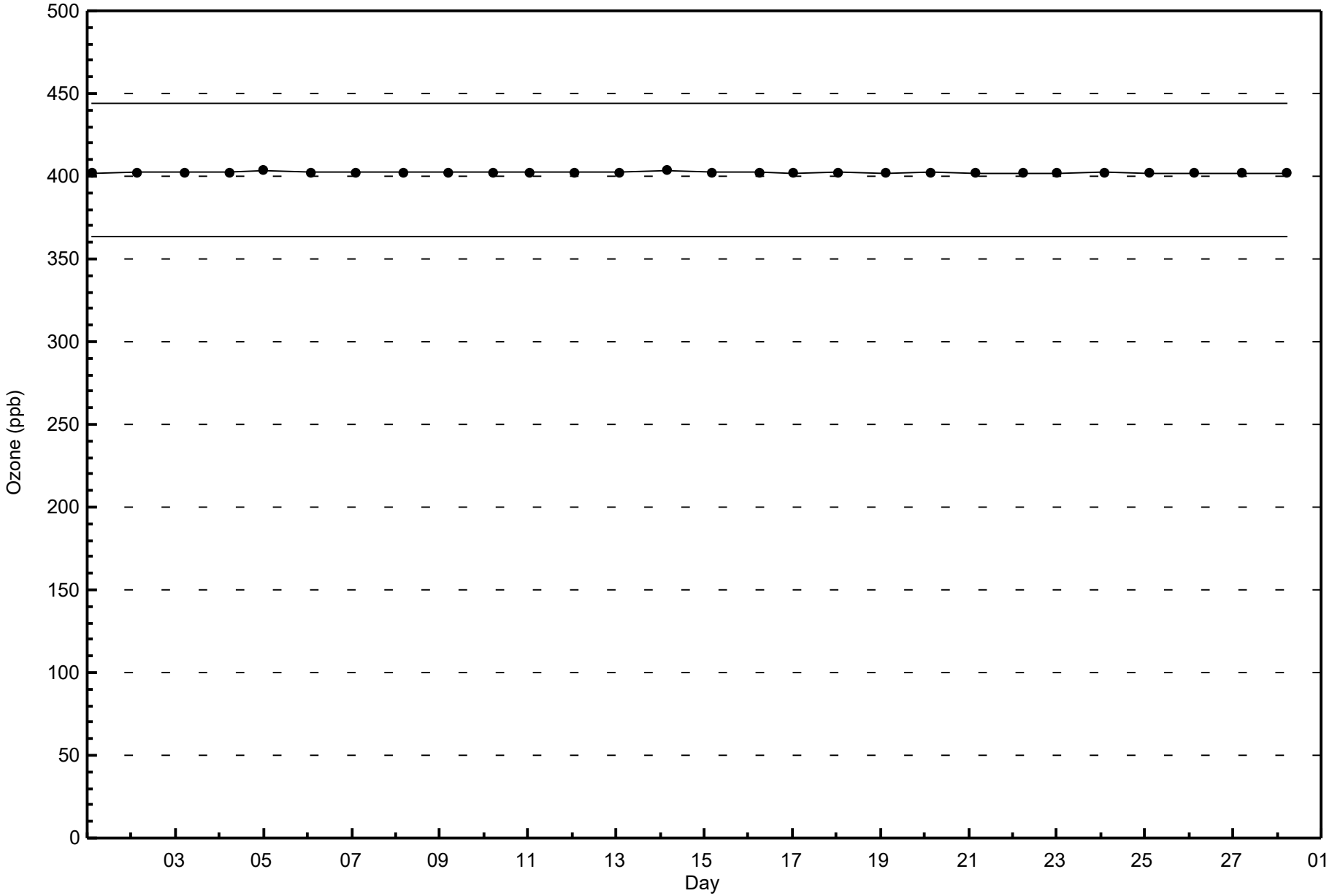


Wood Buffalo Environmental Association

Span Responses

Ozone (O_3) - ppb

Fort Chipewyan - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort Chipewyan - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 12.5 $\mu g/m^3$ on Feb 16 23:00

Maximum Daily Average: 4.6 $\mu g/m^3$ on Feb 11

Minimum Value: 1.3 $\mu g/m^3$ on Feb 15 01:00

Minimum Daily Average: 1.8 $\mu g/m^3$ on Feb 17

Maximum Diurnal Average: 3.8 $\mu g/m^3$ at hour 23

Minimum Diurnal Average: 2.6 $\mu g/m^3$ at hour 17

Monthly Average: 2.89 $\mu g/m^3$

Percentiles: P_1 = 1.5 P_{10} = 1.8 Q_1 = 2.0 Median = 2.6 Q_3 = 3.3 P_{90} = 4.2 P_{99} = 7.5

Hours in Service:	672
Hours of Data:	670
Hours of Missing Data:	2
Hours of Calibration:	2
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.7	2.7	2.7	2.6	2.6	2.7	2.7	2.6	2.8	2.9	2.7	2.5	3.2	2.5	3.0	2.9	2.3	2.2	2.1	2.1	2.2	2.2	2.2	2.3	2.6	3.2
2-Feb	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.2	2.5	2.8	2.6	2.5	2.9	3.0	2.5	2.6	2.6	2.5	2.7	3.5	3.3	3.3	3.5	4.1	2.6	4.1
3-Feb	3.8	4.0	4.2	4.3	4.1	4.7	4.7	4.6	4.5	4.2	4.0	4.0	3.8	3.5	3.6	3.7	3.8	3.9	3.8	3.8	4.3	4.2	4.6	6.4	4.2	6.4
4-Feb	6.6	6.3	5.6	5.4	6.5	5.7	4.8	4.7	4.9	4.3	4.3	4.3	3.5	3.3	2.9	2.3	2.7	2.6	2.3	2.0	2.0	2.1	2.0	1.9	3.9	6.6
5-Feb	1.9	1.8	1.8	1.8	1.9	1.9	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.7	2.4	2.3	2.4	2.5	2.4	2.3	2.3	2.3	2.4	2.3	2.2	2.7
6-Feb	2.3	2.3	2.3	2.4	2.5	2.3	2.2	2.4	2.7	2.9	2.7	2.6	2.4	2.4	2.6	2.8	2.7	2.6	2.8	2.7	2.8	3.1	5.8	2.7	2.7	5.8
7-Feb	2.7	2.7	2.7	3.5	3.6	3.9	3.0	3.2	3.3	3.7	3.6	3.2	3.1	3.0	3.0	3.0	2.8	3.0	2.8	2.9	2.6	2.6	2.7	2.5	3.0	3.9
8-Feb	2.5	2.6	2.6	2.7	2.7	2.7	2.8	2.8	2.8	2.7	2.7	2.8	2.8	3.0	4.2	3.2	2.8	3.2	2.7	3.2	2.8	3.2	3.8	3.6	3.0	4.2
9-Feb	4.2	3.7	3.2	2.6	2.6	2.5	2.6	3.2	2.5	2.4	2.3	2.4	2.4	2.2	2.1	1.9	1.9	1.6	1.6	1.6	1.6	1.6	1.9	1.6	2.3	4.2
10-Feb	1.6	1.5	1.5	1.5	1.5	1.5	1.6	1.8	1.9	2.0	2.1	2.6	2.7	3.2	3.4	3.5	3.9	4.9	5.7	8.4	7.0	7.3	11.4	6.4	3.7	11.4
11-Feb	6.8	5.5	5.4	5.3	5.1	5.2	4.0	4.1	3.5	4.2	4.5	5.3	6.3	5.2	4.9	4.0	3.7	4.9	4.6	3.9	3.6	3.8	3.9	3.8	4.6	6.8
12-Feb	3.7	3.8	3.8	4.0	4.2	4.2	6.1	4.9	4.3	10.2	4.8	4.3	4.0	4.2	4.1	4.1	4.0	4.0	3.8	3.5	3.3	3.5	3.7	3.3	4.3	10.2
13-Feb	2.7	3.0	3.3	3.5	3.7	3.9	4.0	3.7	3.6	3.8	3.8	C	C	3.5	3.7	3.6	3.4	3.2	3.1	3.4	3.2	3.2	3.7	4.0	3.5	4.0
14-Feb	4.1	4.0	3.8	3.4	3.1	3.2	3.6	3.4	3.8	4.5	3.5	3.1	3.2	3.0	2.8	2.8	2.8	2.8	2.7	3.0	3.2	2.8	2.6	1.8	3.2	4.5
15-Feb	1.3	1.4	1.8	1.9	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	2.0	2.1	1.8	2.6	2.5	3.4	2.9	2.2	2.5	4.1	3.8	3.4	2.3	4.1
16-Feb	3.0	2.4	2.5	3.8	2.7	8.0	2.2	2.4	5.2	4.1	2.3	2.2	2.2	2.1	1.9	1.9	1.9	1.8	2.1	3.2	3.2	4.9	12.5	8.5	3.6	12.5
17-Feb	2.1	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.8	1.8	1.9	2.0	1.9	1.8	2.1
18-Feb	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.8	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.6	1.5	1.5	2.8	3.4	3.1	1.9	3.4
19-Feb	1.7	1.6	1.7	1.6	1.5	1.5	1.5	1.5	1.8	2.4	2.9	3.0	3.2	3.3	3.2	3.1	2.7	2.8	2.7	2.5	2.1	1.9	1.9	1.9	2.3	3.3
20-Feb	1.9	1.9	2.0	2.0	2.6	2.0	5.5	3.2	2.5	1.6	1.4	1.5	1.6	1.5	1.6	1.8	1.9	2.6	2.7	2.9	4.6	2.0	2.2	4.5	2.4	5.5
21-Feb	3.9	2.7	1.6	1.9	2.0	2.1	2.4	2.0	1.9	1.8	1.9	1.9	2.2	2.6	2.7	2.7	2.6	2.7	2.9	3.0	3.2	3.2	3.1	3.0	2.5	3.9
22-Feb	2.9	2.8	2.7	2.7	2.6	2.6	2.6	2.8	2.8	2.8	2.7	2.6	2.6	2.6	2.6	2.6	3.1	2.6	2.7	2.6	2.3	2.4	2.5	2.4	2.6	3.1
23-Feb	2.3	2.2	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	1.9	2.0	2.0	2.0	2.0	1.9	2.0	2.0	5.6	4.9	8.8	3.5	2.8	2.7	8.8
24-Feb	2.4	2.0	1.9	1.9	2.0	1.8	1.8	1.7	1.9	1.8	2.1	2.6	2.6	2.6	2.0	2.0	1.9	2.0	2.2	3.1	2.5	2.6	2.6	2.6	2.2	3.1
25-Feb	2.6	2.6	2.7	2.8	2.8	2.9	3.0	3.0	3.1	3.1	3.2	3.1	3.0	2.8	2.7	3.0	3.0	3.0	3.1	2.9	2.8	2.8	2.8	3.0	2.9	3.2
26-Feb	3.2	3.1	3.0	3.0	2.9	2.3	1.8	1.7	2.0	1.8	2.1	1.8	2.0	1.9	1.9	1.9	1.9	1.7	1.7	1.8	1.7	1.7	1.7	1.7	2.1	3.2
27-Feb	2.2	1.9	2.0	2.0	1.9	2.1	3.3	4.1	3.5	3.0	2.5	2.3	2.3	2.4	2.3	2.1	2.1	2.1	2.4	6.1	5.0	4.4	5.3	5.9	3.1	6.1
28-Feb	3.0	2.4	3.2	3.1	2.7	2.1	1.9	2.1	2.5	2.8	3.4	3.8	3.6	3.6	3.0	2.5	2.2	2.2	2.6	2.5	2.5	2.8	3.6	4.5	2.9	4.5
	2.9	2.7	2.7	2.8	2.8	2.9	2.9	2.8	2.9	3.1	2.8	2.7	2.8	2.8	2.7	2.6	2.6	2.7	2.7	3.1	3.0	3.3	3.8	3.4	Diurnal Average	
	6.8	6.3	5.6	5.4	6.5	8.0	6.1	4.9	5.2	10.2	4.8	5.3	6.3	5.2	4.9	4.1	4.0	4.9	5.7	8.4	7.0	8.8	12.5	8.5	Diurnal Maximum	

C - Calibration

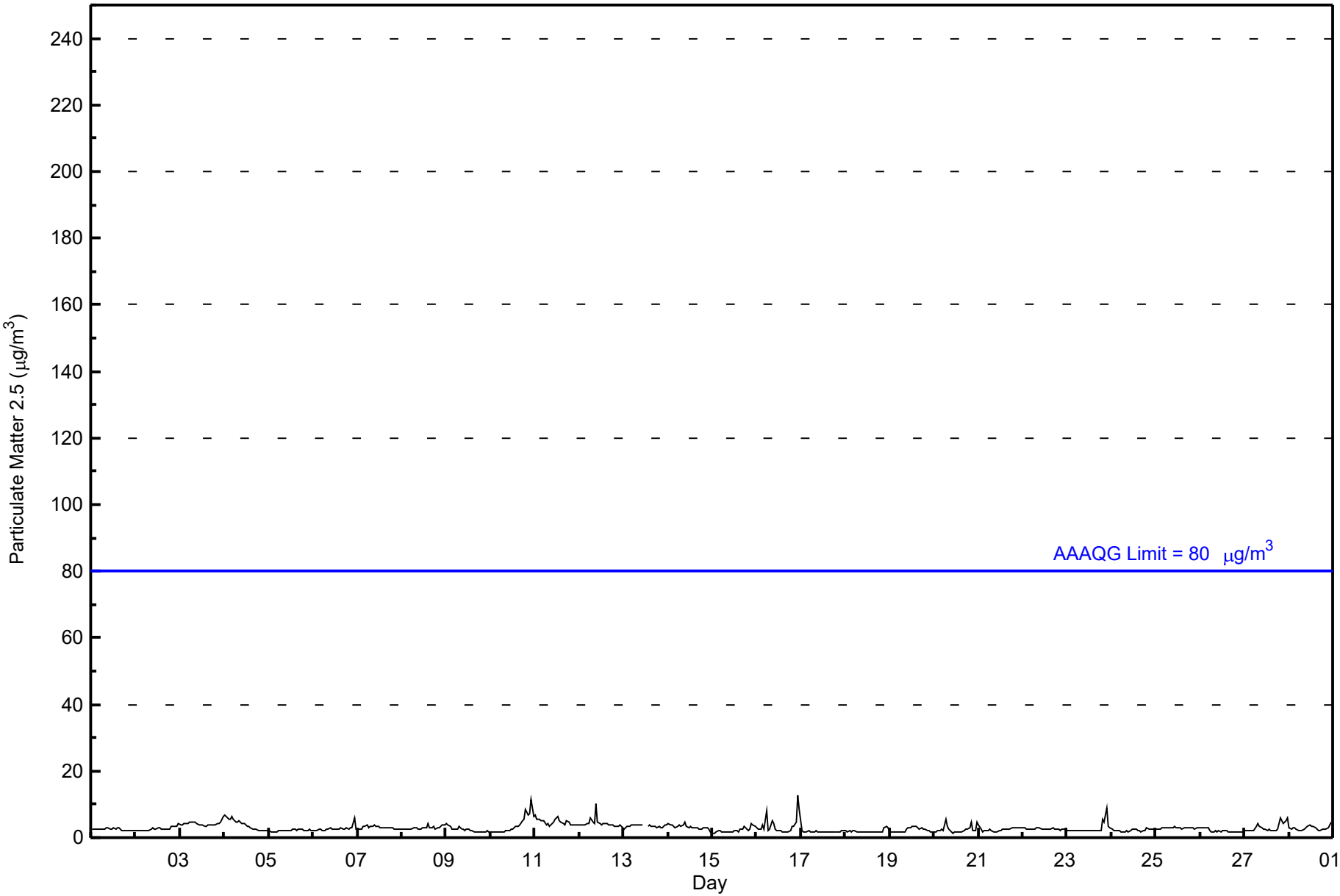
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort Chipewyan - February 2026



Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	644	96.12	96.12
6 - 15	26	3.88	100.00
16 - 25	0	0.00	100.00
26 - 80	0	0.00	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 670

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort Chipewyan - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	42	20	24	80	174	19	9	4	2	4	6	9	22	29	79	116	639
6 - 15	0	0	0	2	3	1	1	2	0	1	0	0	2	4	5	1	22
16 - 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	42	20	24	82	177	20	10	6	2	5	6	9	24	33	84	117	661

Total Number of Valid Hours: 661

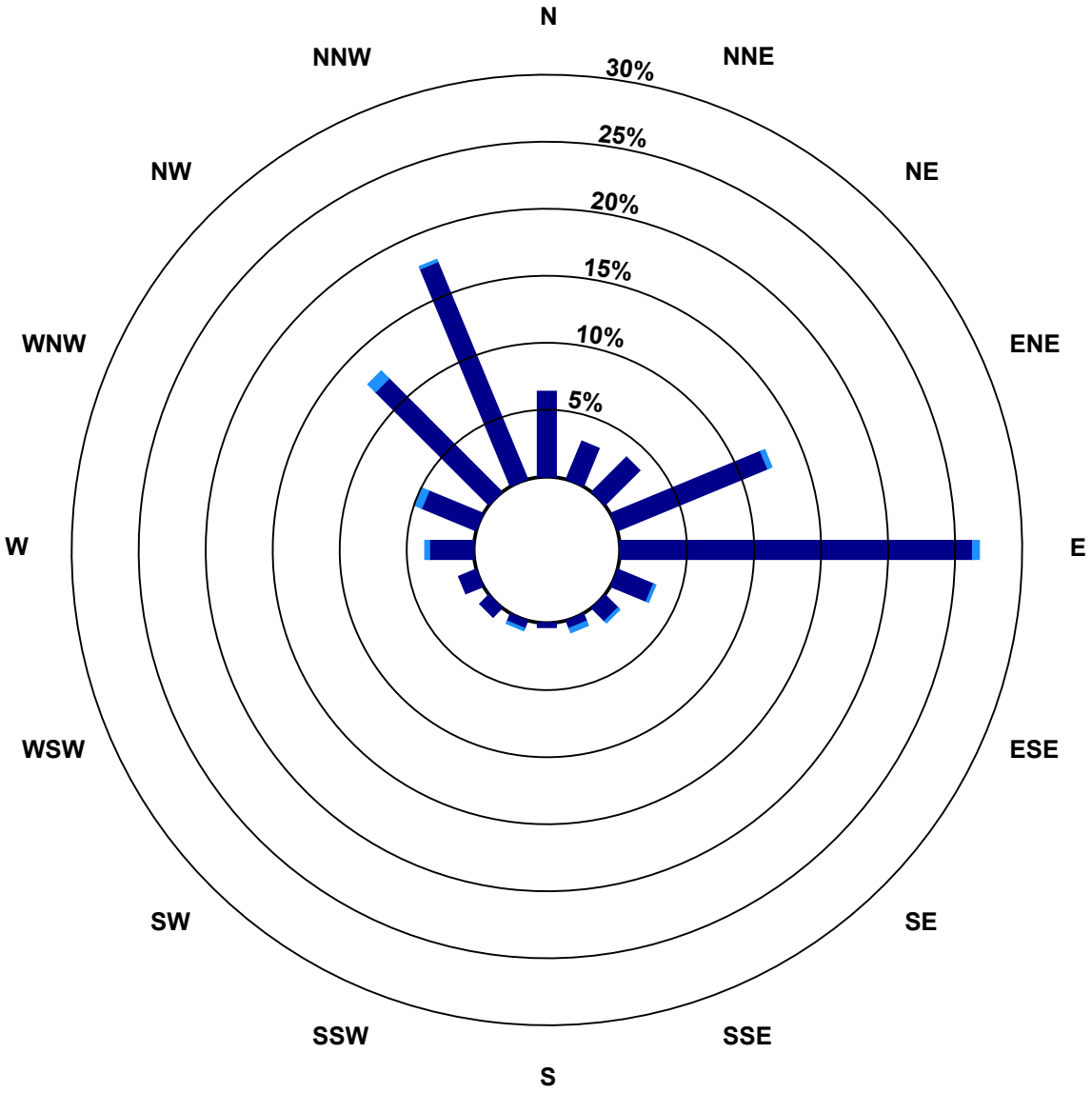
Total Number of Hours: 672

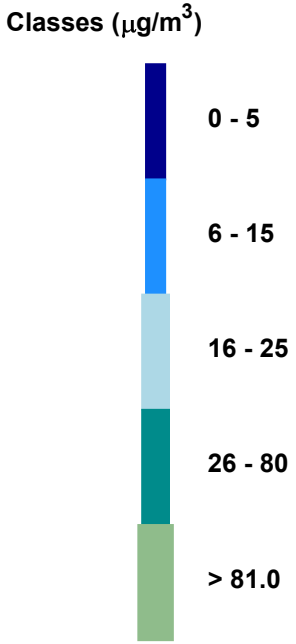
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort Chipewyan





Total Number of Valid Hours: 661

Maximum Value: 0.8 C on Feb 4 09:00
Maximum Daily Average: -5.5 C on Feb 4

Minimum Value: -38.1 C on Feb 28 06:00
Minimum Daily Average: -33.2 C on Feb 19
Maximum Diurnal Average: -19.3 C at hour 16
Minimum Diurnal Average: -22.4 C at hour 8
Monthly Average: -20.86 C
Percentiles: P_1 = -36.8 P_{10} = -32.3 Q_1 = -27.9 Median = -19.8 Q_3 = -14.8 P_{90} = -10.9 P_{99} = -1.0

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

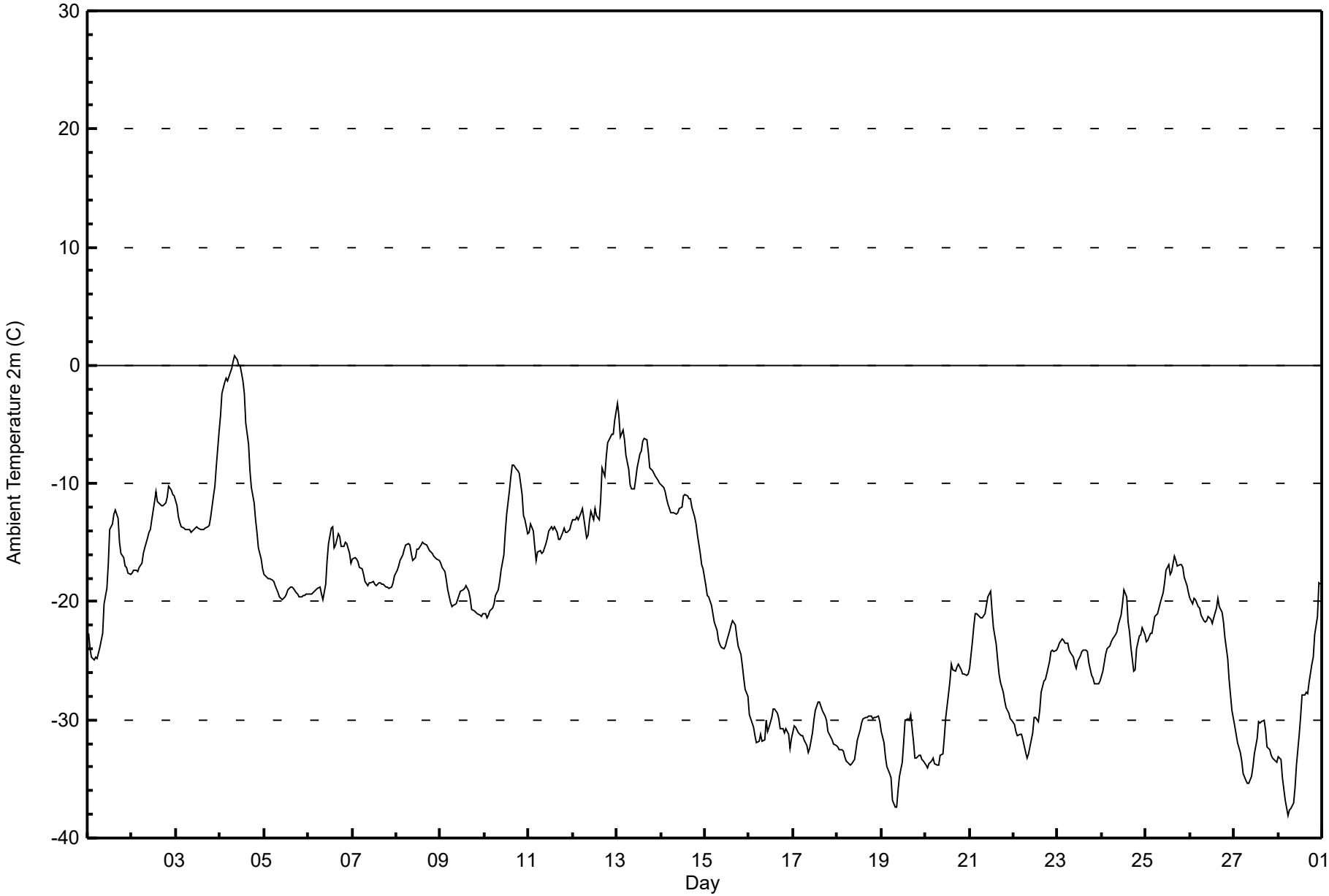
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-22.7	-23.9	-24.7	-25.0	-24.7	-24.8	-23.8	-23.3	-22.6	-20.2	-18.9	-16.8	-13.9	-13.4	-12.6	-12.2	-13.0	-15.0	-15.9	-16.3	-17.0	-17.1	-17.6	-17.7	-18.9	-12.2
2-Feb	-17.5	-17.4	-17.3	-17.5	-17.1	-16.7	-16.0	-15.5	-14.6	-14.1	-14.0	-13.1	-11.5	-10.7	-11.5	-11.8	-11.9	-11.9	-11.6	-11.2	-10.2	-10.6	-10.9	-11.1	-13.6	-10.2
3-Feb	-11.8	-12.9	-13.3	-13.6	-13.8	-13.9	-13.9	-14.0	-14.1	-14.0	-13.8	-13.7	-13.8	-13.9	-14.0	-13.9	-13.8	-13.6	-13.5	-12.8	-11.0	-10.2	-8.6	-5.6	-12.8	-5.6
4-Feb	-4.3	-2.4	-1.5	-1.1	-1.3	-0.9	-0.3	0.4	0.8	0.5	0.0	-0.1	-1.3	-2.4	-4.9	-6.7	-8.9	-10.4	-11.7	-13.1	-14.1	-15.4	-16.4	-17.2	-5.5	0.8
5-Feb	-17.7	-17.9	-18.0	-18.1	-18.2	-18.3	-18.7	-19.2	-19.6	-19.8	-19.8	-19.6	-19.4	-19.0	-18.8	-18.8	-18.9	-19.2	-19.4	-19.6	-19.6	-19.5	-19.4	-19.3	-19.0	-17.7
6-Feb	-19.3	-19.3	-19.3	-19.1	-19.0	-18.9	-18.8	-19.4	-19.8	-18.5	-16.5	-15.0	-13.8	-13.6	-15.5	-15.3	-14.2	-14.5	-15.3	-15.3	-14.9	-15.1	-15.9	-16.8	-16.8	-13.6
7-Feb	-16.4	-16.2	-16.4	-16.7	-17.1	-17.2	-17.6	-18.3	-18.7	-18.5	-18.4	-18.3	-18.5	-18.6	-18.4	-18.4	-18.6	-18.5	-18.8	-18.8	-18.8	-18.7	-18.4	-17.9	-18.0	-16.2
8-Feb	-17.3	-17.0	-16.5	-16.1	-15.6	-15.2	-15.1	-15.2	-15.9	-16.5	-16.2	-15.6	-15.6	-15.2	-15.0	-15.0	-15.2	-15.4	-15.7	-15.9	-16.1	-16.2	-16.4	-16.5	-15.8	-15.0
9-Feb	-16.7	-17.2	-17.5	-18.2	-19.0	-20.1	-20.4	-20.3	-20.2	-19.8	-19.5	-19.1	-19.0	-18.8	-18.7	-19.1	-19.7	-20.6	-20.8	-20.9	-21.1	-21.2	-21.2	-21.0	-19.6	-16.7
10-Feb	-21.0	-21.3	-21.1	-20.7	-20.5	-20.1	-19.5	-19.0	-18.3	-17.3	-16.0	-14.1	-12.6	-10.6	-9.4	-8.4	-8.4	-8.8	-8.9	-9.2	-11.0	-12.8	-13.1	-14.2	-14.9	-8.4
11-Feb	-14.1	-13.4	-14.0	-15.3	-16.5	-15.8	-15.6	-15.9	-15.8	-15.1	-14.6	-14.0	-13.7	-13.9	-13.6	-14.1	-14.7	-14.8	-14.2	-13.8	-14.1	-14.1	-13.9	-13.4	-14.5	-13.4
12-Feb	-13.1	-13.1	-12.9	-13.0	-12.4	-12.1	-12.9	-14.7	-14.4	-13.2	-12.3	-13.0	-12.1	-12.7	-13.1	-11.4	-8.7	-9.4	-7.7	-6.6	-6.1	-5.8	-5.8	-4.7	-10.9	-4.7
13-Feb	-3.2	-4.3	-6.0	-5.5	-6.3	-7.6	-8.8	-10.1	-10.5	-10.5	-9.6	-8.7	-7.4	-7.2	-6.4	-6.2	-6.3	-7.4	-8.6	-8.9	-9.1	-9.4	-9.7	-10.0	-7.8	-3.2
14-Feb	-10.1	-10.4	-10.7	-11.3	-11.8	-12.4	-12.5	-12.5	-12.6	-12.4	-12.1	-12.0	-11.0	-10.9	-11.1	-11.3	-11.3	-12.0	-12.9	-13.4	-14.4	-15.9	-16.9	-17.3	-12.5	-10.1
15-Feb	-18.7	-19.5	-19.6	-20.3	-21.0	-21.7	-22.5	-23.3	-23.6	-23.8	-23.9	-23.8	-23.2	-22.4	-22.0	-21.6	-22.0	-23.0	-23.8	-24.4	-25.4	-26.4	-27.4	-28.0	-23.0	-18.7
16-Feb	-29.5	-29.9	-30.7	-31.3	-32.0	-31.8	-31.3	-31.8	-31.7	-30.0	-31.0	-30.6	-29.7	-29.0	-29.1	-29.4	-29.9	-30.8	-30.7	-31.1	-30.8	-31.3	-32.4	-31.6	-30.7	-29.0
17-Feb	-30.6	-30.6	-30.8	-31.1	-31.3	-31.4	-31.7	-32.1	-32.8	-32.4	-31.1	-30.1	-29.2	-28.4	-28.5	-28.8	-29.3	-29.7	-30.1	-31.0	-31.4	-31.7	-32.0	-32.2	-30.8	-28.4
18-Feb	-32.3	-32.5	-32.5	-32.7	-33.1	-33.5	-33.7	-33.8	-33.8	-33.3	-32.5	-31.7	-30.9	-30.3	-30.0	-29.8	-29.8	-29.6	-29.7	-29.9	-29.8	-29.8	-29.7	-30.1	-31.4	-29.6
19-Feb	-31.0	-31.9	-33.1	-33.9	-34.5	-34.9	-36.8	-37.4	-37.3	-36.0	-34.8	-33.6	-32.0	-30.1	-29.9	-30.0	-29.6	-31.8	-33.2	-33.2	-33.0	-33.0	-33.4	-33.5	-33.2	-29.6
20-Feb	-33.9	-34.1	-33.7	-33.5	-33.2	-33.7	-33.8	-33.8	-33.1	-32.9	-31.4	-29.8	-27.8	-26.7	-25.3	-25.7	-25.9	-25.5	-25.3	-25.8	-26.2	-26.1	-26.3	-26.1	-29.6	-25.3
21-Feb	-25.7	-23.4	-22.1	-21.0	-21.0	-21.2	-21.4	-21.4	-21.0	-20.3	-19.6	-19.2	-20.8	-22.2	-23.7	-25.0	-26.1	-26.8	-27.7	-28.3	-28.9	-29.5	-29.9	-30.0	-24.0	-19.2
22-Feb	-30.4	-31.0	-31.4	-31.2	-31.2	-31.7	-32.8	-33.2	-32.9	-32.3	-31.1	-29.8	-29.8	-30.1	-29.2	-27.7	-26.7	-26.6	-26.1	-25.1	-24.2	-24.1	-24.3	-24.1	-29.0	-24.1
23-Feb	-23.8	-23.5	-23.2	-23.2	-23.5	-23.5	-24.1	-24.3	-24.7	-25.3	-25.6	-25.1	-24.5	-24.3	-24.1	-24.2	-24.3	-25.1	-26.2	-26.5	-26.9	-27.0	-26.9	-26.7	-24.9	-23.2
24-Feb	-25.8	-25.2	-24.5	-24.0	-23.7	-23.4	-23.2	-22.8	-22.5	-22.0	-21.2	-20.2	-19.0	-19.6	-21.7	-22.5	-23.9	-25.8	-25.7	-24.0	-22.9	-22.8	-22.2	-22.8	-23.0	-19.0
25-Feb	-23.4	-23.2	-22.7	-22.7	-22.0	-21.3	-21.1	-20.5	-20.1	-19.3	-18.4	-17.4	-16.9	-17.7	-17.4	-16.1	-16.5	-16.9	-16.8	-16.9	-17.1	-17.9	-18.6	-19.2	-19.2	-16.1
26-Feb	-19.8	-20.2	-19.8	-19.8	-20.4	-20.5	-21.1	-21.6	-21.7	-21.6	-21.3	-21.5	-21.8	-21.4	-20.5	-19.7	-20.4	-20.8	-21.7	-23.1	-24.9	-26.5	-27.9	-29.2	-22.0	-19.7
27-Feb	-30.5	-31.2	-31.9	-32.7	-33.5	-34.5	-35.1	-35.4	-35.3	-34.8	-33.9	-32.9	-31.5	-30.2	-30.2	-30.1	-30.1	-30.8	-32.2	-32.6	-33.0	-33.3	-33.4	-33.6	-32.6	-30.1
28-Feb	-33.1	-33.4	-34.9	-35.9	-36.7	-38.1	-37.6	-37.5	-37.1	-35.7	-33.8	-31.3	-29.7	-27.9	-27.9	-27.6	-27.8	-26.8	-25.2	-24.7	-22.8	-21.3	-18.4	-18.5	-30.2	-18.4
	-21.2	-21.3	-21.4	-21.6	-21.8	-22.0	-22.1	-22.4	-22.3	-21.8	-21.1	-20.4	-19.7	-19.3	-19.4	-19.3	-19.5	-20.1	-20.3	-20.4	-20.5	-20.8	-21.0	-21.0	Diurnal Average	
	-3.2	-2.4	-1.5	-1.1	-1.3	-0.9	-0.3	0.4	0.8	0.5	0.0	-0.1	-1.3	-2.4	-4.9	-6.2	-6.3	-7.4	-7.7	-6.6	-6.1	-5.8	-5.8	-4.7	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Fort Chipewyan - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	335	49.85	49.85
-20 - 0	333	49.55	99.40
0 - 10	4	0.60	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 96.3 % on Feb 4 06:00

Maximum Daily Average: 87.3 % on Feb 14

Minimum Value: 52.8 % on Feb 17 21:00

Minimum Daily Average: 61.5 % on Feb 18

Maximum Diurnal Average: 76.4 % at hour 7

Minimum Diurnal Average: 71.0 % at hour 17

Monthly Average: 74.16 %

Percentiles: P_1 = 54.4 P_{10} = 63.2 Q_1 = 68.4 Median = 74.2 Q_3 = 80.5 P_{90} = 85.1 P_{99} = 93.1

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

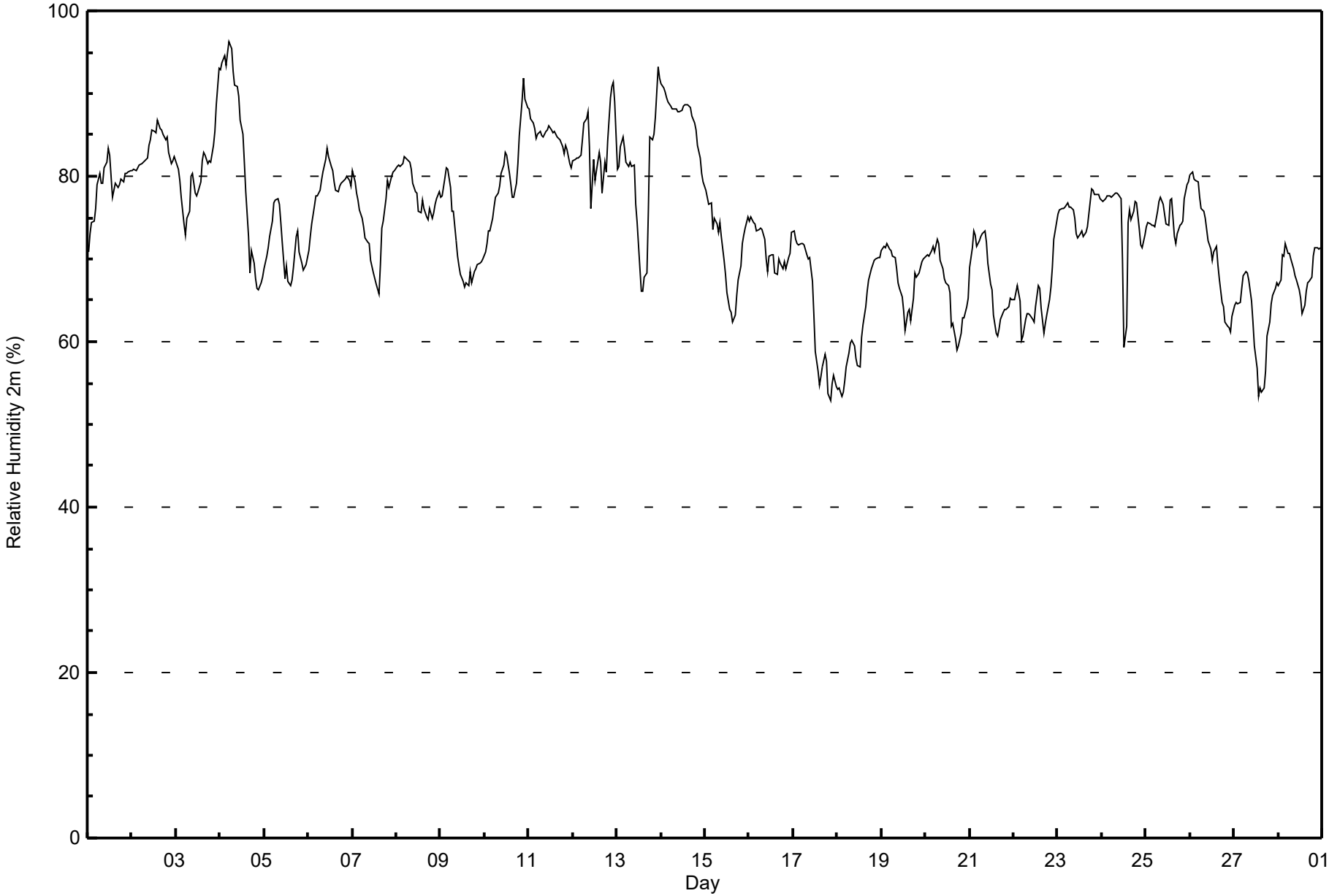
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	70.9	73.0	74.4	74.5	76.1	78.9	80.4	79.2	79.1	81.0	81.7	83.4	82.5	77.5	78.3	79.2	78.6	78.9	79.7	79.4	80.3	80.4	80.6	80.7	78.7	83.4
2-Feb	80.7	80.8	80.7	80.9	81.4	81.5	81.7	81.8	82.3	83.7	84.4	85.6	85.4	85.2	86.8	85.7	85.6	85.1	84.5	84.7	82.9	81.6	81.9	82.4	83.2	86.8
3-Feb	81.4	80.8	79.5	77.5	74.3	72.8	74.9	75.7	79.9	80.3	78.0	77.7	78.2	79.4	81.8	82.9	82.6	81.5	81.9	81.7	83.7	85.4	88.7	93.0	80.6	93.0
4-Feb	92.9	93.7	94.5	93.5	95.0	96.3	95.5	92.7	91.0	90.8	89.6	86.7	85.0	81.8	78.1	72.8	68.3	70.9	69.5	67.6	66.4	66.2	67.1	67.9	82.2	96.3
5-Feb	68.8	70.4	71.3	72.6	74.6	76.7	77.1	77.3	76.6	74.4	72.0	67.6	69.1	67.4	66.7	67.4	68.9	72.8	73.4	70.8	69.4	68.6	69.0	69.4	71.4	77.3
6-Feb	71.0	72.6	74.2	76.5	77.7	77.7	78.3	79.5	80.6	82.0	83.3	82.4	81.3	80.7	79.3	78.4	78.1	78.9	79.1	79.5	79.7	80.0	79.6	78.8	78.7	83.3
7-Feb	80.7	79.4	77.9	77.2	75.9	74.9	73.9	72.5	72.1	71.9	69.8	68.4	67.6	67.0	65.8	69.3	73.7	74.7	77.3	79.5	78.7	80.0	80.5	80.7	74.6	80.7
8-Feb	81.3	81.3	81.2	81.5	82.4	82.1	81.8	81.8	80.9	79.2	78.2	78.0	75.7	75.7	77.0	76.2	75.1	74.7	76.1	75.0	75.7	76.7	77.4	78.1	78.5	82.4
9-Feb	77.5	77.6	79.9	81.1	80.9	78.6	75.7	75.7	72.2	70.3	69.1	68.2	67.2	66.6	67.1	66.7	68.4	67.1	68.4	68.8	69.4	69.5	69.6	69.9	71.9	81.1
10-Feb	70.8	71.9	73.4	73.5	74.9	76.3	77.4	78.0	78.8	80.4	81.3	82.9	82.6	80.4	79.1	77.5	77.5	79.2	81.5	84.9	89.2	91.9	89.3	88.3	80.0	91.9
11-Feb	88.1	87.0	86.4	85.7	84.5	85.1	85.4	84.9	84.8	85.4	85.7	86.1	85.5	85.2	85.4	84.7	84.6	84.5	83.5	82.8	83.8	83.2	81.6	81.0	84.8	88.1
12-Feb	81.9	82.0	82.2	82.3	82.6	84.3	86.4	87.0	87.7	83.5	76.2	82.0	79.5	80.7	82.9	81.6	78.0	81.7	80.5	84.2	89.4	90.9	91.4	89.0	83.7	91.4
13-Feb	80.8	81.2	83.6	84.8	83.4	81.6	81.1	81.8	81.2	81.4	76.6	74.4	68.9	66.1	66.1	67.8	68.3	75.8	84.7	84.5	85.1	87.1	93.2	91.9	79.6	93.2
14-Feb	91.2	90.7	90.3	89.5	89.0	88.5	88.2	88.1	88.1	87.8	87.8	87.9	88.5	88.7	88.7	88.4	88.3	87.4	86.4	85.6	83.7	82.2	80.3	79.3	87.3	91.2
15-Feb	78.3	77.4	76.7	76.8	73.5	75.0	74.2	73.2	74.4	72.8	69.9	68.1	65.9	63.9	63.5	62.3	63.2	65.7	67.4	69.1	71.9	73.0	73.8	75.0	71.0	78.3
16-Feb	74.6	75.1	74.3	74.3	73.5	73.6	73.8	73.5	72.4	70.1	68.4	70.4	70.5	70.5	68.4	68.1	70.0	69.5	68.8	69.6	68.9	70.1	70.6	73.2	71.3	75.1
17-Feb	73.4	72.3	71.8	71.7	71.8	71.9	71.7	70.4	70.1	70.2	67.3	63.2	58.8	56.4	54.8	55.8	57.0	58.5	57.5	53.7	52.8	54.9	55.9	54.5	63.2	73.4
18-Feb	54.3	54.4	53.4	53.8	55.2	57.0	58.6	59.8	60.1	59.5	58.0	57.1	57.0	60.5	62.0	64.2	66.1	67.5	68.9	69.4	69.8	70.0	70.2	70.1	61.5	70.2
19-Feb	71.0	71.5	71.3	71.9	71.2	71.0	70.3	70.1	68.7	67.1	66.4	65.5	63.7	61.4	63.5	63.9	62.5	65.2	68.2	67.7	68.4	69.0	69.6	70.0	67.9	71.9
20-Feb	70.3	70.5	70.4	71.0	71.5	70.9	72.3	71.9	69.9	68.8	67.6	67.1	66.8	65.9	61.8	62.2	60.4	59.0	59.5	61.0	62.8	62.9	64.2	65.2	66.4	72.3
21-Feb	68.9	71.3	73.4	72.9	71.6	72.2	72.7	73.1	73.4	72.0	69.4	67.0	66.2	63.2	61.1	60.7	61.6	62.6	63.6	63.9	64.0	64.2	65.2	65.1	67.5	73.4
22-Feb	65.1	65.8	66.8	65.0	60.2	60.7	62.7	63.4	63.3	63.3	62.6	62.4	64.2	66.8	66.4	64.0	60.9	62.1	63.3	65.0	66.6	68.9	72.4	74.4	64.9	74.4
23-Feb	75.4	75.9	76.1	76.1	76.3	76.7	76.3	76.3	75.9	75.0	73.1	72.6	73.1	73.4	72.7	73.2	73.9	75.5	78.5	78.2	77.8	77.9	77.8	77.2	75.6	78.5
24-Feb	76.9	77.1	77.4	77.6	77.6	77.5	77.5	77.9	78.0	77.9	77.3	69.9	59.4	61.9	74.4	75.9	74.8	75.8	76.9	76.7	73.6	71.8	71.3	72.8	74.5	78.0
25-Feb	73.9	74.5	74.3	74.1	74.1	73.8	75.8	77.0	77.4	76.6	75.4	74.2	74.1	77.1	77.4	72.8	71.8	73.0	74.1	74.2	74.6	77.3	78.9	79.3	75.2	79.3
26-Feb	80.2	80.5	79.6	79.5	79.4	77.4	76.2	75.8	74.9	73.5	72.2	71.1	69.9	70.8	71.5	69.3	67.7	64.8	64.3	62.5	61.8	61.6	61.1	63.1	71.2	80.5
27-Feb	64.4	64.8	64.5	64.7	66.4	68.0	68.4	68.4	67.5	65.0	62.4	59.6	56.9	53.4	54.4	53.9	54.4	56.5	60.7	62.3	64.5	65.5	66.5	67.1	62.5	68.4
28-Feb	66.7	67.5	70.5	70.4	71.9	70.7	70.7	70.0	68.8	67.9	67.5	66.3	65.3	63.3	64.3	66.2	67.2	67.3	67.8	70.3	71.3	71.4	71.2	71.3	68.6	71.9
	75.4	75.8	76.1	76.1	75.9	76.1	76.4	76.3	76.1	75.4	74.0	73.1	71.7	71.1	71.4	71.1	71.0	72.0	73.1	73.3	73.8	74.4	75.0	75.3	Diurnal Average	
	92.9	93.7	94.5	93.5	95.0	96.3	95.5	92.7	91.0	90.8	89.6	87.9	88.5	88.7	88.7	88.4	88.3	87.4	86.4	85.6	89.4	91.9	93.2	93.0	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Fort Chipewyan - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	0	0.00	0.00
40 - 60	34	5.06	5.06
60 - 80	460	68.45	73.51
80 - 100	178	26.49	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 24.4 % on Feb 4 07:00

Maximum Daily Average: 5.4 % on Feb 4

Minimum Value: 1.3 % on Feb 13 13:00

Minimum Daily Average: 1.8 % on Feb 21

Maximum Diurnal Average: 3.1 % at hour 7

Minimum Diurnal Average: 1.8 % at hour 13

Monthly Average: 2.20 %

Percentiles: P_1 = 1.5 P_{10} = 1.8 Q_1 = 1.9 Median = 1.9 Q_3 = 2.2 P_{90} = 2.8 P_{99} = 4.4

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Hours of Calibration:	0
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.9	2.0	2.0	2.1	2.0	2.0	2.1	2.2	2.3	2.3	2.1	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.3
2-Feb	2.2	2.3	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.3
3-Feb	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	1.9	2.1
4-Feb	4.6	11.9	12.0	11.4	11.6	11.4	24.4	OR	OR	OR	3.4	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.4	24.4
5-Feb	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.8	1.9
6-Feb	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
7-Feb	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
8-Feb	2.0	2.0	2.0	2.0	2.3	2.3	2.2	2.1	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.3
9-Feb	1.9	1.9	1.9	2.0	2.1	2.2	2.2	2.2	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2
10-Feb	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.9	1.9	2.1	2.5	2.9	3.2	3.3	2.1	3.3
11-Feb	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.5	3.5	3.3	3.1	2.5	2.0	1.9	1.9	2.1	2.3	2.2	2.1	2.0	2.0	2.0	1.9	2.8	3.6
12-Feb	1.9	1.9	1.9	2.0	1.9	1.9	2.1	2.4	2.5	2.0	1.3	1.4	1.5	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.1	2.3	2.9	2.0	2.9
13-Feb	2.4	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.4	1.4	1.3	1.5	1.6	1.7	1.7	1.8	1.9	1.9	1.9	1.9	2.6	3.4	1.9	3.4
14-Feb	3.8	4.0	4.2	4.2	4.3	4.3	4.3	4.4	4.4	4.3	4.1	4.0	3.6	3.4	3.2	3.0	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8	3.6	4.4
15-Feb	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.3	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.4	2.4	2.8
16-Feb	2.5	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.8	2.5	2.2	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.8
17-Feb	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.3	2.1	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	2.1	2.6
18-Feb	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
19-Feb	2.0	2.0	2.1	2.2	2.2	2.3	2.4	2.4	2.3	2.0	1.7	1.6	1.6	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.0	2.4
20-Feb	2.2	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.4	2.1	1.6	1.5	1.6	1.7	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.5
21-Feb	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.8	1.9
22-Feb	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.8	1.9
23-Feb	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.7	1.6	1.6	1.8	1.8	1.9	2.0	2.1	2.3	2.5	2.6	2.8	2.9	2.9	2.1	2.9
24-Feb	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.7	2.3	1.8	1.4	1.7	1.8	1.9	1.9	2.1	2.2	2.4	2.5	2.4	2.2	2.1	2.4	2.9
25-Feb	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.2	2.4	1.9	2.4
26-Feb	2.6	2.8	2.9	3.0	3.0	2.9	2.8	2.7	2.5	2.1	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.2	3.0
27-Feb	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.0	1.8	1.7	1.5	1.5	1.7	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.1	1.9	2.1
28-Feb	2.1	2.2	2.2	2.3	2.4	2.4	2.5	2.5	2.4	2.1	1.8	1.6	1.7	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.5
	2.3	2.6	2.6	2.6	2.6	2.6	3.1	2.3	2.3	2.2	2.0	1.9	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.2	Diurnal Average	
	4.6	11.9	12.0	11.4	11.6	11.4	24.4	4.4	4.4	4.3	4.1	4.0	3.6	3.4	3.2	3.0	2.9	2.9	2.9	2.9	2.8	2.9	3.2	3.4	Diurnal Maximum	

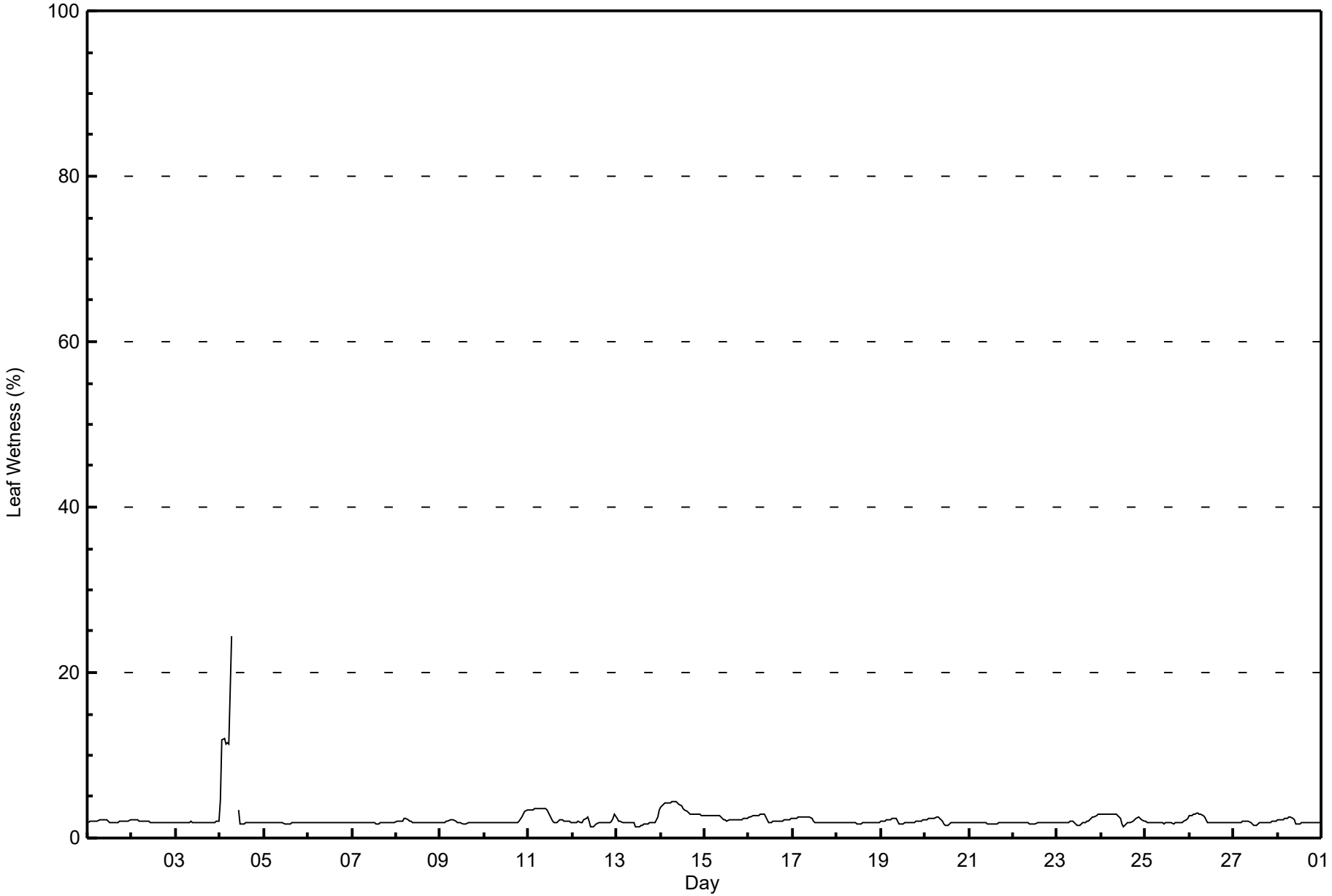
OR - Out of Range

Wood Buffalo Environmental Association

Hourly Averages

Leaf Wetness (LW) - %

Fort Chipewyan - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 0.3	0	0.00	0.00
0.4 - 0.5	0	0.00	0.00
0.6 - 0.7	0	0.00	0.00
0.8 - 1.4	6	0.90	0.90
1.5 - 10	656	98.06	98.95
> 10	6	0.90	99.85

Total Number of Valid Hours: 669

Total Number of Hours: 672

Maximum Value: 0.4 mm on Feb 18 16:00

Maximum Daily Total: 2.1 mm on Feb 18

Minimum Value: 0.0 mm on Feb 12 01:00

Minimum Daily Total: 0.0 mm on Feb 12

Maximum Diurnal Total: 0.5 mm at hour 16

Minimum Diurnal Total: 0.0 mm at hour 1

Monthly Total: 2.78 mm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.0 P_{99} = 0.2

Hours in Service:	672
Hours of Data:	408
Hours of Missing Data:	264
Hours of Calibration:	0
Percent Operational Time:	60.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	--	--
2-Feb	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	--	--
3-Feb	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	--	--
4-Feb	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	--	--
5-Feb	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	--	--
6-Feb	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	--	--
7-Feb	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	--	--
8-Feb	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	--	--
9-Feb	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	--	--
10-Feb	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	--	--
11-Feb	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	--	--
12-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
15-Feb	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
16-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.0	2.1	0.4
19-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26-Feb	0.0	0.0	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2
27-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.5	0.3	0.3	0.1	0.1	0.1	0.1	0.2	0.0	Diurnal Average	
	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.0	Diurnal Maximum	

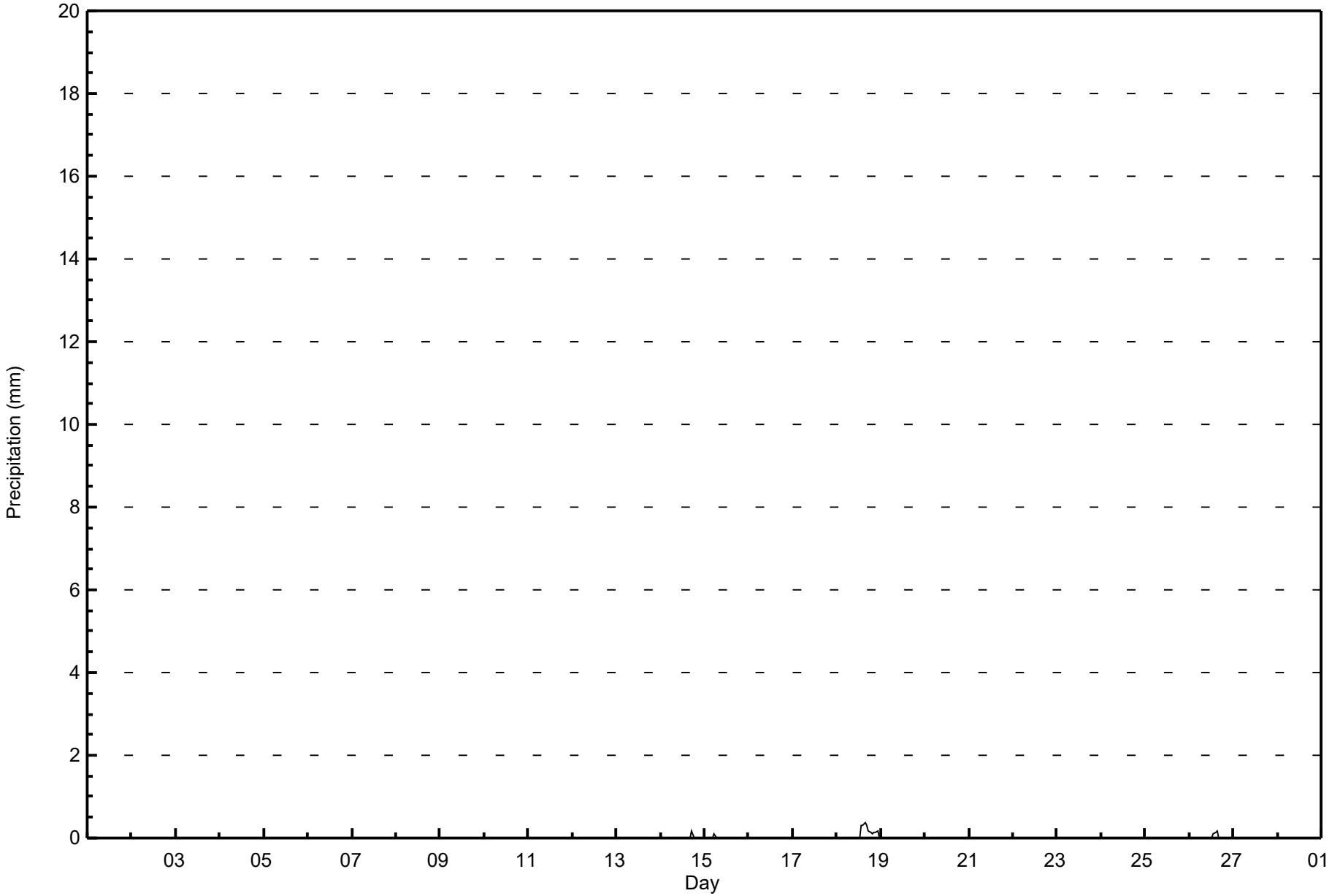
AF - Analyzer Failure

Wood Buffalo Environmental Association

Hourly Averages

Precipitation (PC) - mm

Fort Chipewyan - February 2026



Concentration Ranges (mm)	Number of Hours	%	Cumulative %
0 - 0.3	407	99.75	99.75
0.4 - 0.5	1	0.25	100.00
0.6 - 0.7	0	0.00	100.00
0.8 - 1.4	0	0.00	100.00
1.5 - 10	0	0.00	100.00
> 10	0	0.00	100.00

Total Number of Valid Hours: 408

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Global Radiation (GR) - W/m2

Fort Chipewyan - February 2026

Maximum Value: 471.1 W/m2 on Feb 28 13:00

Maximum Daily Average: 118.3 W/m2 on Feb 28

Minimum Value: 0.0 W/m2 on Feb 1 01:00

Minimum Daily Average: 20.7 W/m2 on Feb 2

Maximum Diurnal Average: 261.2 W/m2 at hour 13

Minimum Diurnal Average: 0.0 W/m2 at hour 6

Monthly Average: 60.51 W/m2

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 89.1 P_{90} = 222.1 P_{99} = 421.5

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

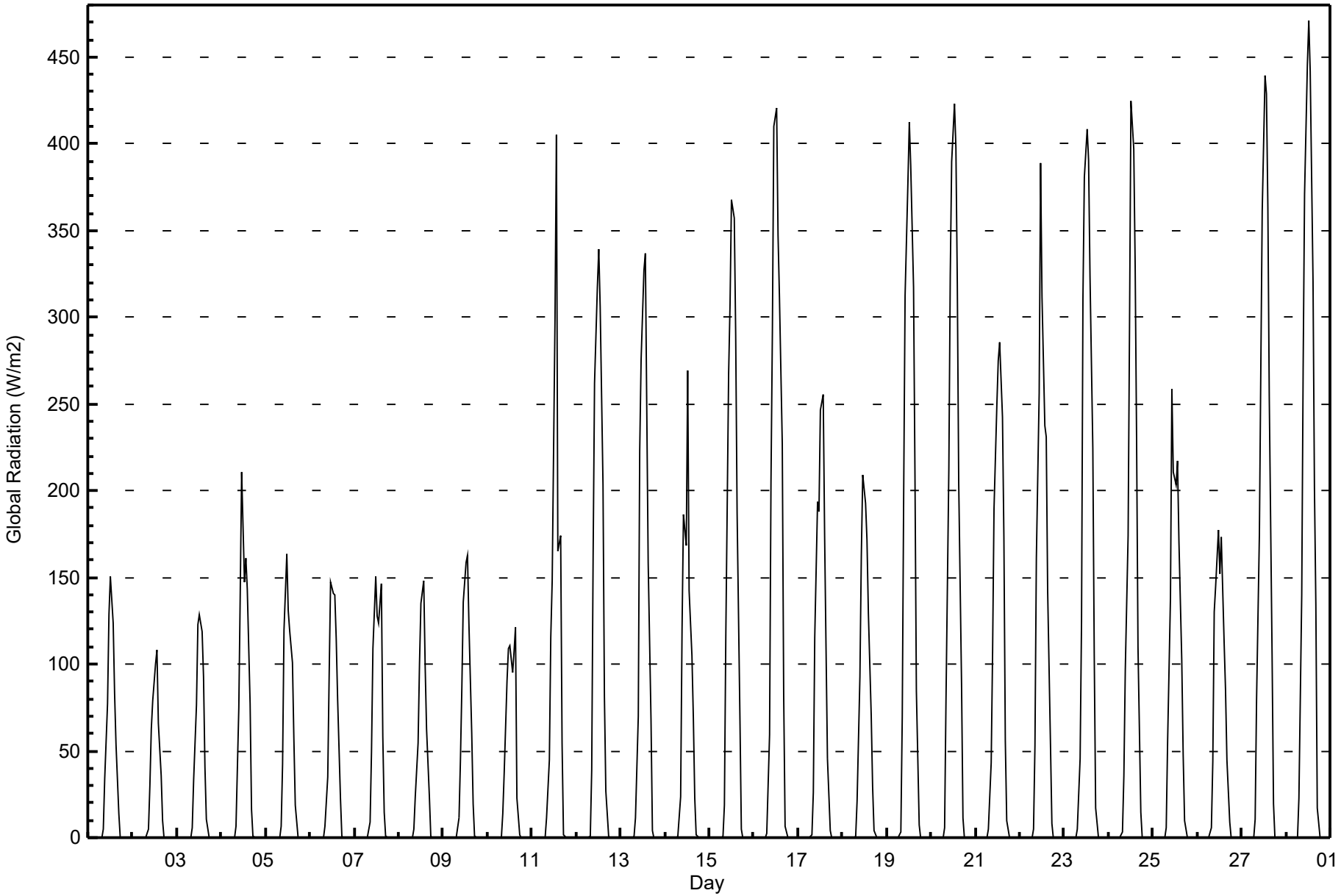
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	33.9	77.5	128.4	150.4	123.5	82.6	53.4	13.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	27.9	150.4
2-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	29.9	62.3	78.9	100.4	108.2	66.3	36.0	10.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	20.7	108.2
3-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	33.1	76.8	123.2	128.3	118.5	93.1	40.8	10.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	26.2	128.3
4-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	75.0	140.4	210.6	147.2	160.9	143.0	77.6	16.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	40.7	210.6
5-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	42.0	119.2	163.4	130.8	119.6	101.1	56.9	18.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	31.6	163.4
6-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	35.3	93.4	147.4	140.6	139.7	115.0	79.5	22.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	32.5	147.4
7-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	49.4	109.1	150.3	128.0	123.3	146.1	58.4	14.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	32.9	150.3
8-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	23.3	54.4	100.4	135.2	148.4	99.2	62.9	23.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	27.2	148.4
9-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	11.5	44.5	86.4	135.6	158.8	162.3	123.8	60.0	19.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	33.5	162.3
10-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	14.1	37.5	90.1	108.6	110.5	95.0	107.3	120.9	22.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	29.5	120.9
11-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	11.8	44.9	115.2	147.8	299.4	404.8	165.5	174.4	54.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	59.2	404.8
12-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	38.9	163.0	261.9	317.4	339.3	306.2	203.5	81.1	26.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	72.5	339.3
13-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	11.3	70.0	222.6	275.8	327.2	336.6	247.4	158.3	68.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	71.8	336.6
14-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	23.8	120.3	185.9	168.5	269.3	142.5	105.2	69.2	23.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	46.2	269.3
15-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	18.7	116.0	267.5	307.2	367.6	357.1	290.0	186.9	68.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	82.7	367.6
16-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	59.6	204.7	292.0	409.8	420.7	347.1	311.3	226.7	82.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0	98.5	420.7
17-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	26.2	115.4	193.8	187.8	246.6	255.6	174.3	109.0	45.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	56.7	255.6
18-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	21.5	92.7	162.7	208.7	193.0	171.9	129.8	70.9	28.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	45.2	208.7
19-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	69.8	197.8	312.3	377.8	412.4	387.1	317.0	209.1	84.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0	99.1	412.4
20-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	80.3	212.0	323.7	389.9	423.4	398.2	318.6	203.9	88.8	11.2	0.0	0.0	0.0	0.0	0.0	0.0	102.3	423.4
21-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	42.7	107.5	189.5	249.1	275.0	285.7	242.6	173.6	56.1	9.7	0.0	0.0	0.0	0.0	0.0	0.0	68.2	285.7
22-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	52.6	161.3	256.6	388.7	311.5	237.3	231.3	142.1	53.9	8.4	0.0	0.0	0.0	0.0	0.0	0.0	77.0	388.7
23-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	45.2	124.6	311.2	381.1	408.0	390.4	323.9	224.9	105.9	17.3	0.1	0.0	0.0	0.0	0.0	0.0	97.4	408.0
24-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	35.5	97.2	174.2	294.8	424.6	397.2	329.7	230.6	109.5	14.9	0.1	0.0	0.0	0.0	0.0	0.0	88.0	424.6
25-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	55.8	138.3	258.9	210.4	203.2	217.1	170.5	102.6	48.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0	59.2	258.9
26-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	44.2	130.2	145.1	177.1	151.7	173.0	112.9	85.0	44.7	9.3	0.0	0.0	0.0	0.0	0.0	0.0	45.0	177.1
27-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	79.9	174.8	269.3	361.0	439.7	428.4	363.5	254.1	105.1	19.2	0.3	0.0	0.0	0.0	0.0	0.0	104.4	439.7
28-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.1	23.1	139.9	271.0	371.2	445.9	471.1	441.5	320.8	202.0	134.3	17.4	0.3	0.0	0.0	0.0	0.0	0.0	118.3	471.1
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	33.3	105.2	186.5	237.3	261.2	249.2	194.1	126.8	50.0	5.7	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	0.1	23.1	139.9	271.0	371.2	445.9	471.1	441.5	363.5	254.1	134.3	19.2	0.3	0.0	0.0	0.0	0.0	0.0	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Global Radiation (GR) - W/m2

Fort Chipewyan - February 2026



Concentration Ranges (W/m2)	Number of Hours	%	Cumulative %
0 - 20	439	65.33	65.33
21 - 100	74	11.01	76.34
101 - 300	117	17.41	93.75
301 - 600	42	6.25	100.00
601 - 900	0	0.00	100.00
> 900	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Fort Chipewyan - February 2026

Maximum Speed: 29 km/h on Feb 3 21:00

Maximum Daily Speed Average: 18.4 km/h on Feb 1

Minimum Speed Value: 0 km/h on Feb 20 05:00

Minimum Daily Speed Average: 2.4 km/h on Feb 16

Maximum Diurnal Speed Average: 6.8 km/h at hour 21

Minimum Diurnal Speed Average: 4.5 km/h at hour 1

Monthly Average Velocity: 5.6 km/h 44.4 deg

Percentiles: $P_1 = 2$ $P_{10} = 5$ $Q_1 = 7$ Median = 10 $Q_3 = 15$ $P_{90} = 21$ $P_{99} = 27$

Hours in Service:	672
Hours of Data:	663
Hours of Missing Data:	9
Percent Operational Time:	98.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ENE15	ENE12	ENE10	ENE15	ENE11	E14	E12	E19	E21	ENE26	ENE29	E23	SE22	SE20	SE19	SE20	ESE19	ESE19	E22	E25	E24	E24	E23	E20	E18.4	ENE29
2-Feb	E17	E19	E19	ENE18	E18	E16	E14	E13	E15	E14	E15	E12	ENE9	ENE8	E12	E8	ESE7	E7	SSW3	W5	NW9	NNW10	NW9	NW11	ENE9.0	E19
3-Feb	NW12	NW12	NW12	NW10	NW10	NW9	NW7	NNW6	NNW5	NNW5	N4	NE4	ESE7	E12	E16	E21	E25	E27	E28	E26	E29	E29	E24	SE23	ENE9.0	E29
4-Feb	SSE26	UO	UO	UO	UO	UO	UO	UO	W24	WNW21	WNW22	NW19	NW23	NW21	NW23	NW21	NNW19	NW13	NW9	NNW9	NNW11	NNW10	NNW11	NNW12	----	SSE26
5-Feb	NNW10	NNW10	NNW8	N7	N8	NNW10	NNW10	NNW11	NW10	NW11	NNW9	NNW9	NW8	NW7	NNW8	N6	N5	NNE6	E10	E13	E11	E11	E12	E13	N5.3	E13
6-Feb	E15	ESE15	ESE18	ESE18	E19	E22	E23	ENE25	ENE26	E27	E24	E20	E22	E28	ENE22	ENE17	NE11	ENE13	NE9	NE8	ENE9	NE7	NNW5	NNW8	E15.8	E28
7-Feb	NNW9	NNW9	NW10	NW11	NNW10	NW12	NNW12	NNW11	NNW10	NW9	NW12	NW11	NNW9	N8	NNW7	NNW5	NNW5	NNE6	NE7	ENE14	E18	E18	ENE19	E21	N6.7	E21
8-Feb	E22	ENE21	ENE22	ENE23	ENE17	NE12	NNE9	NNE6	NNW7	NNW7	NNW7	NW9	NW10	NW10	NW10	NW10	NW10	WNW10	W11	WNW12	WNW11	NW8	WNW6	WNW6	N5.7	ENE23
9-Feb	NW7	NW8	NW7	NNW7	NNW6	NNW5	NNW5	NW7	NW8	NNW8	NNW8	NNW6	NNW7	NNW6	NNW6	NNW8	N8	N8	NNW8	NNW7	N6	NNE5	ENE5	E10	NNW5.9	E10
10-Feb	E14	E15	E17	E20	E24	E24	E25	E26	E25	E23	E22	ESE24	ESE21	SE19	SE18	SE15	SSE14	SSE12	SSE8	WNW6	ENE3	ENE5	NW2	SSW3	ESE13.9	E26
11-Feb	WNW6	NW6	W3	W6	WNW7	WNW3	NNW3	NNW3	NNE3	NNE3	N5	NNE6	ESE7	E8	ESE7	E11	E6	ENE5	ENE5	E9	E15	ENE8	E9	ENE13	ENE3.3	E15
12-Feb	E14	E18	ENE8	E8	ENE3	ESE12	NW5	WSW4	SW6	WNW4	S3	ENE6	E7	ENE9	E9	E10	E19	E21	E21	E20	E20	E17	E12	WSW6	E8.8	E21
13-Feb	W13	W14	W17	WNW15	WNW15	NW14	WNW10	WNW12	WNW11	WNW9	WNW7	W8	W8	W9	NW8	NNW7	NNW6	ENE8	E13	E11	E9	ENE11	ENE10	NE11	NW5.1	W17
14-Feb	ENE8	ENE6	NNE6	NNE7	NE6	E6	UO	UO	NW5	NW4	NW3	NW4	NW3	WNW3	NW3	NW4	NW4	NNW6	NNW7	NNW7	NNW9	NNW11	NNW11	NW10	NNW4.6	NNW11
15-Feb	NNW10	NW8	NW9	NW10	NW13	NW10	NW13	WNW12	W13	NW14	NW14	WNW14	WNW16	W15	W14	NW14	NW12	NW11	WNW11	NW8	NW6	NW7	NNW6	NNW4	NW10.6	WNW16
16-Feb	WNW6	NW4	W4	W2	W6	NW4	NE3	NE4	N4	WNW2	ESE6	ESE8	E12	E12	ESE10	E10	E11	E11	ENE5	W0	N4	NW3	WNW4	NW5	ENE2.4	E12
17-Feb	NNW13	NNW16	NNW17	NNW15	NNW15	NNW18	NNW16	NNW15	NNW15	NNW16	NNW12	NNW11	NNW14	NNW14	NNW13	NNW12	NNW12	NNW10	N10	N14	N14	N15	N15	N14	NNW13.7	NNW18
18-Feb	N13	N13	N13	N11	N12	N13	N11	NNW10	N11	N11	N9	NNW11	NNW10	N9	NNW11	N9	N9	NNW6	NNW7	NNW9	NW8	NW10	NW9	WNW6	NNW9.6	N13
19-Feb	W6	W6	SW6	SSW8	SSW5	S5	E8	E9	E8	ESE6	E9	E10	E10	E11	E14	E13	E13	E13	E17	E13	E11	E11	E9	E7	E7.1	E17
20-Feb	E7	E7	ESE5	E4	SSE0	SE1	E2	E2	E5	E9	E7	E7	E8	E8	E17	E15	E13	ENE7	NNE5	N7	NW5	WNW6	NW4	WNW3	E4.6	E17
21-Feb	W4	NNW11	NNW16	NNW15	NNW12	NNW11	NW12	NNW13	NNW13	NNW13	NNW13	NNW12	NNW16	NNW16	NNW15	NNW16	NNW17	NNW16	NNW14	NNW15	NNW13	NNW8	NNW7	NNW6	NNW12.6	NNW17
22-Feb	NNW6	N6	NNE8	NE7	NE12	ENE15	ENE13	ENE12	ENE14	ENE13	E16	E20	E19	E18	E17	ENE15	ENE17	ENE18	ENE17	ENE16	ENE23	ENE22	ENE22	ENE20	ENE14.4	ENE23
23-Feb	ENE19	ENE18	ENE16	ENE15	ENE13	ENE11	ENE12	E9	E10	E11	E11	ESE9	E7	E7	ENE7	E6	E6	E6	E7	E5	E4	E5	ENE5	ENE5	E9.1	ENE19
24-Feb	ENE3	ENE5	E6	E5	E4	E5	E5	ENE5	E6	ESE6	E4	SW8	SW8	ESE5	E10	E10	E10	E13	E12	ENE10	ENE20	ENE21	E22	E21	E8.1	E22
25-Feb	E22	E22	ENE22	ENE25	ENE23	ENE20	ENE19	ENE21	ENE19	ENE17	ENE17	ENE16	ENE14	E13	E13	NNE6	N6	NNE6	N4	N4	N4	N6	N7	N6	ENE12.7	ENE25
26-Feb	NNE7	NNE10	NE9	NE9	NE6	NE14	NE16	NE15	NE19	NE19	NE17	NE23	NNE22	NE22	NNE17	NNE14	N15	N14	N14	NNW15	NNW16	NNW15	NNW15	NNW14	NNE13.5	NE23
27-Feb	NW14	NNW13	NNW10	NNW9	NW9	NW10	NW10	NW11	NW11	NW12	NW9	NW8	W9	WSW10	WSW11	WSW10	WSW8	WSW6	WSW6	W5	W5	W5	W5	W5	WNW7.4	NNW14
28-Feb	WSW6	SW4	S3	SE2	E6	E9	E9	E9	E11	E12	E13	E14	E17	E18	E20	E20	E22	E21	E17	E16	E9	SSE3	SW9	WNW10	E9.2	E22
	NE4.5	NNE5.4	NNE5.6	NE5.9	NNE5.6	NE6.1	NE6.3	NE6.1	NNE5.4	NNE5.8	NE5.7	NE5.3	NE4.5	ENE5.1	ENE5.6	NE5.8	NE6.1	NE6.5	NE6.1	NE6.1	NE6.8	NE6.3	NE5.4	NE4.5	Diurnal Average	
	SSE26	E22	ENE22	ENE25	E24	E24	E25	E26	ENE26	E27	ENE29	ESE24	NW23	E28	NW23	NW21	E25	E27	E28	E26	E29	E29	E24	SE23	Diurnal Maximum	

UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Fort Chipewyan - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 8 km/h on Feb 4 15:00

Minimum Value: 0 km/h on Feb 24 05:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 6

Hours in Service:	672
Hours of Data:	663
Hours of Missing Data:	9
Hours of Calibration:	0
Percent Operational Time:	98.7

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	1	2	2	2	3	3	2	3	3	3	3	2	2	2	2	2	3	2	2	2	2	2	2	3
2-Feb	2	2	2	2	2	1	1	2	2	2	2	3	1	1	2	2	2	2	1	1	4	3	3	4	4
3-Feb	4	4	4	3	4	3	2	2	2	1	2	1	1	2	1	2	2	2	3	3	3	3	2	2	4
4-Feb	4	UO	UO	UO	UO	UO	UO	UO	5	5	5	6	7	7	8	7	8	4	5	4	4	4	4	4	8
5-Feb	4	4	3	3	3	4	4	4	4	4	3	3	3	3	2	2	2	2	4	1	1	1	1	1	4
6-Feb	1	1	2	2	2	2	2	3	2	2	2	2	2	3	3	4	2	2	2	4	2	3	2	3	4
7-Feb	3	3	4	4	4	4	5	4	4	3	4	4	4	2	2	2	2	2	1	3	2	2	2	2	5
8-Feb	2	3	2	3	4	3	2	2	2	3	3	3	3	3	3	3	3	3	2	3	3	3	2	2	4
9-Feb	2	2	2	2	2	1	1	2	3	3	3	3	2	2	2	2	3	3	2	3	2	1	1	2	3
10-Feb	2	2	1	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	1	1	2	2	3
11-Feb	3	3	2	1	1	1	2	2	1	1	2	1	1	2	1	1	2	1	1	4	2	2	1	4	4
12-Feb	5	2	5	2	2	1	2	2	2	2	1	1	1	2	1	5	2	2	3	2	2	2	3	7	7
13-Feb	3	3	4	4	4	4	3	2	3	3	2	2	2	2	2	2	2	3	2	1	1	1	2	2	4
14-Feb	1	2	2	2	1	1	UO	UO	1	1	1	1	2	2	1	1	1	2	2	3	3	4	4	3	4
15-Feb	4	2	3	3	4	3	5	3	3	4	4	4	4	4	4	4	4	3	3	3	2	2	2	2	5
16-Feb	2	3	2	2	2	3	1	1	1	2	2	1	1	1	1	1	0	1	3	2	2	2	1	2	3
17-Feb	5	4	4	4	4	4	4	5	4	5	4	4	5	5	5	4	4	4	3	5	5	6	5	5	6
18-Feb	5	4	4	4	4	4	4	4	4	4	3	4	4	3	3	3	3	2	2	3	2	2	2	2	5
19-Feb	1	1	2	2	1	1	3	2	1	1	2	1	1	1	1	1	1	1	1	2	1	3	3	1	3
20-Feb	1	1	1	1	1	1	1	1	2	1	1	1	2	4	2	1	1	3	1	1	1	1	2	2	4
21-Feb	2	6	3	3	3	3	3	4	3	4	4	4	5	5	5	5	5	5	4	4	4	3	3	2	6
22-Feb	2	2	2	2	2	2	2	2	2	2	3	3	2	1	2	3	3	3	3	2	2	2	2	2	3
23-Feb	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
24-Feb	1	1	1	1	0	1	1	1	1	1	1	2	2	3	1	1	1	2	3	3	3	2	2	2	3
25-Feb	2	2	3	3	4	4	3	3	2	3	2	3	2	2	1	2	2	2	2	1	1	1	1	2	4
26-Feb	2	2	1	2	1	3	3	3	3	5	4	5	6	5	4	5	5	5	5	5	5	5	5	5	6
27-Feb	4	4	3	3	3	3	3	4	4	3	3	2	3	2	2	2	2	2	1	1	1	1	1	2	4
28-Feb	1	1	2	1	1	1	1	1	1	1	2	2	1	2	2	2	2	2	2	2	2	1	2	2	2
	5	6	5	4	4	4	5	5	5	5	5	6	7	7	8	7	8	5	5	5	5	6	5	7	
	Diurnal Maximum																								

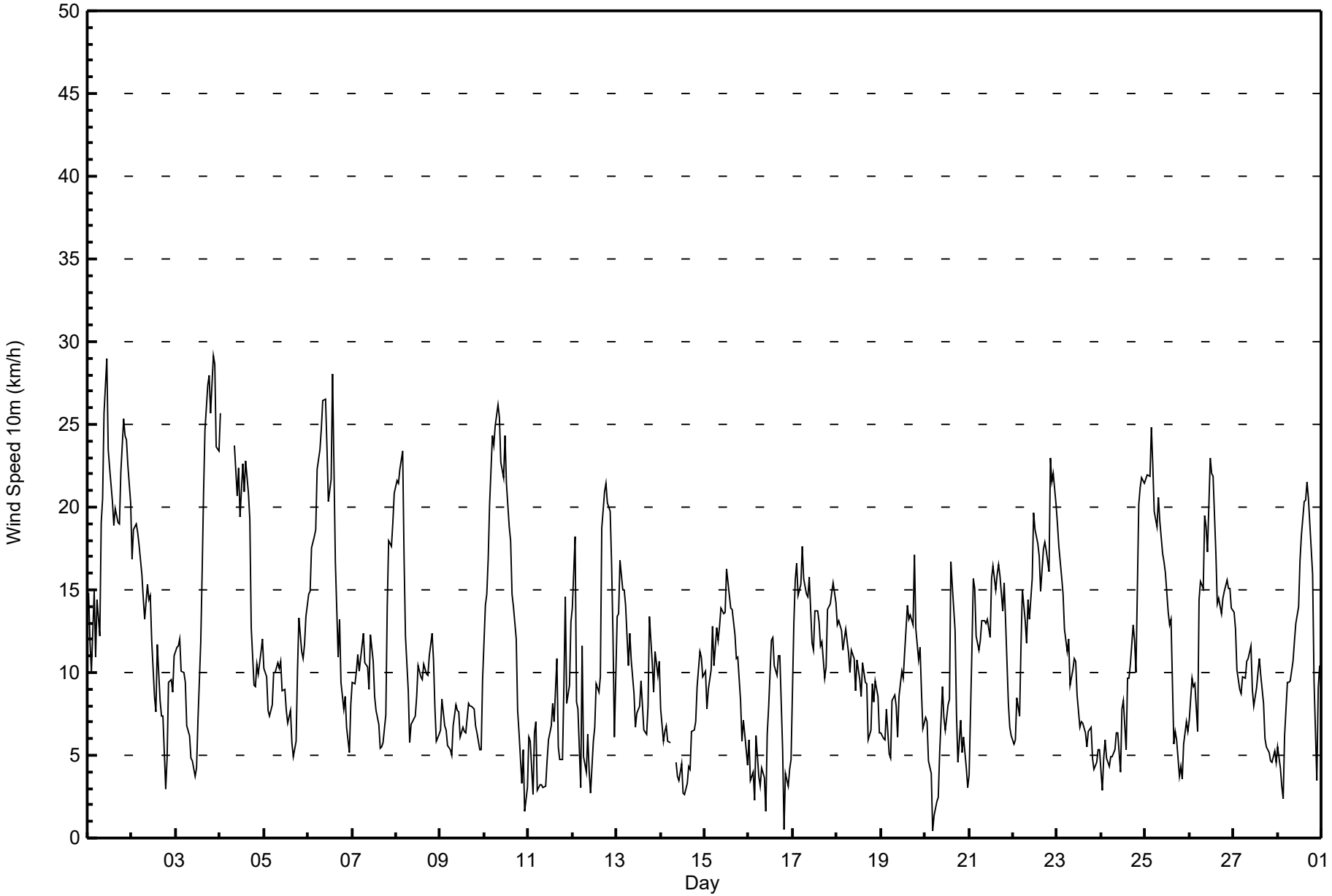
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Fort Chipewyan - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	96	14.48	14.48
6 - 11	286	43.14	57.62
12 - 19	199	30.02	87.63
20 - 28	79	11.92	99.55
29 - 38	3	0.45	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 663

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Fort Chipewyan - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	7	5	3	12	12	2	2	2	2	4	1	1	11	6	16	10	96
6 - 11	22	12	11	19	59	10	0	1	0	1	5	8	8	18	48	64	286
12 - 19	13	2	8	32	60	6	4	2	0	0	0	0	6	7	16	43	199
20 - 28	0	1	2	18	44	2	4	1	0	0	0	0	1	2	4	0	79
29 - 38	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	42	20	24	82	177	20	10	6	2	5	6	9	26	33	84	117	663

Total Number of Valid Hours: 663

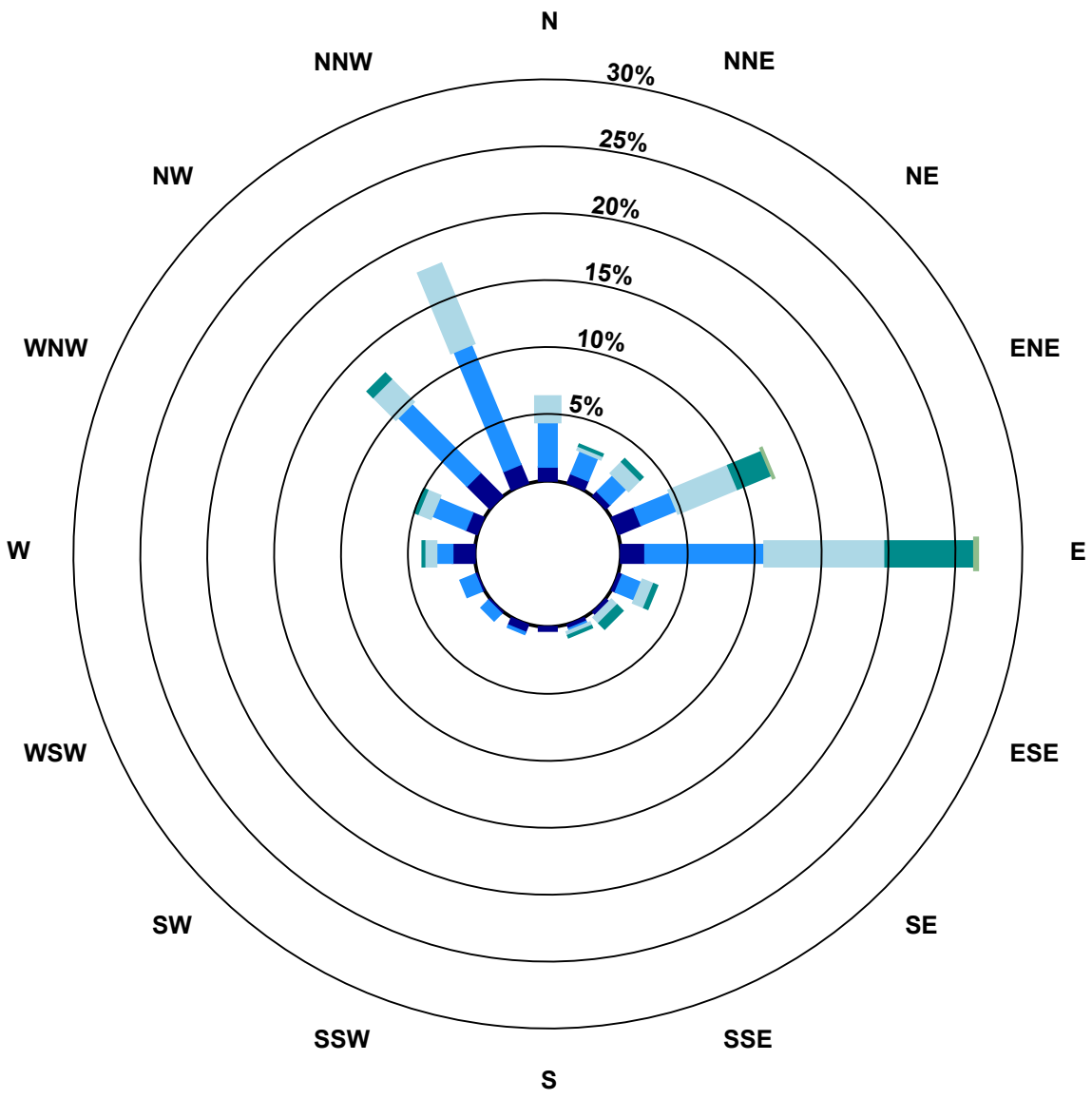
Total Number of Hours: 672

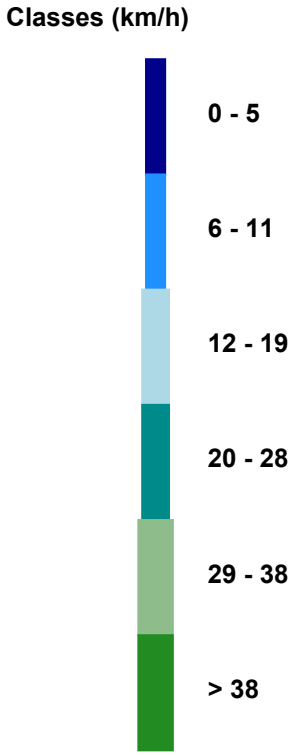
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Fort Chipewyan





Total Number of Valid Hours: 663

Direction of Maximum Speed: 98 deg on Feb 3 21:00
Direction of Maximum Daily Speed Average: 91.3 deg on Feb 1

Direction of Minimum Speed: 161 deg on Feb 20 05:00

Direction of Minimum Daily Speed Average: 2.4 deg on Feb 16

Monthly Average Direction: 44.4 deg

Hours in Service:	672
Hours of Data:	663
Hours of Missing Data:	9
Percent Operational Time:	98.7

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	74	73	72	75	72	80	83	88	81	76	78	90	130	127	130	128	110	102	89	83	87	85	83	80	91.3
2-Feb	83	90	79	78	84	87	84	81	79	79	82	81	71	62	92	92	104	97	205	281	325	328	323	318	74.6
3-Feb	321	323	324	324	320	317	320	333	337	329	0	53	103	95	95	89	89	89	89	93	98	94	101	131	77.4
4-Feb	151	UO	UO	UO	UO	UO	UO	UO	271	287	285	304	316	322	320	322	330	318	325	330	336	332	327	327	--
5-Feb	330	341	347	350	349	338	331	327	321	320	337	330	312	323	330	357	356	21	79	100	92	99	100	98	4.1
6-Feb	99	105	102	104	95	91	82	75	75	79	87	96	90	82	70	58	52	59	48	40	62	50	337	337	79.1
7-Feb	333	329	324	318	329	318	327	328	327	321	314	321	346	358	334	335	341	31	45	77	84	79	75	83	4.4
8-Feb	81	74	73	70	61	45	30	17	347	328	327	323	315	314	305	314	308	297	281	285	294	304	298	301	1.7
9-Feb	308	307	323	334	333	341	327	317	321	328	341	333	330	329	342	343	352	350	340	347	357	32	69	81	341.1
10-Feb	85	84	83	84	86	90	86	87	87	91	90	109	117	132	131	133	153	157	165	290	63	71	315	194	101.5
11-Feb	302	307	275	263	290	294	338	331	22	14	357	33	105	97	107	93	96	71	69	95	99	57	82	75	64.8
12-Feb	79	91	68	80	64	102	321	237	234	282	178	69	84	78	89	87	85	88	84	89	89	88	87	243	87.1
13-Feb	263	275	272	296	299	310	302	295	297	292	301	262	261	261	304	340	346	59	86	79	80	73	69	55	311.2
14-Feb	63	65	31	28	46	91	UO	UO	306	326	319	308	326	298	324	317	308	342	342	337	330	329	329	320	346.2
15-Feb	330	315	317	317	307	304	306	293	280	305	311	302	290	280	274	309	313	307	302	324	325	309	331	340	304.6
16-Feb	300	305	269	263	276	316	44	45	357	284	109	102	96	98	106	99	92	85	60	272	355	319	293	325	69.0
17-Feb	338	341	342	342	336	339	338	338	337	342	347	341	343	343	344	336	343	338	358	0	4	3	2	359	345.7
18-Feb	358	355	358	355	0	356	351	344	349	352	351	338	347	351	344	350	351	346	329	333	325	313	309	294	345.0
19-Feb	268	263	234	212	195	176	94	89	94	108	96	89	82	86	87	86	82	91	100	94	96	96	97	97	99.2
20-Feb	94	94	102	85	161	140	85	85	94	92	96	99	98	95	84	85	87	69	19	350	324	296	308	286	79.1
21-Feb	271	334	336	343	342	330	326	337	345	345	343	345	337	335	336	342	340	339	335	340	341	340	340	346	338.2
22-Feb	346	352	12	41	54	64	60	65	70	67	80	82	85	91	81	68	62	62	61	59	74	74	75	75	67.7
23-Feb	76	71	69	71	73	74	78	85	86	91	99	105	93	84	78	83	87	87	81	81	81	84	77	72	80.3
24-Feb	78	77	81	93	88	86	101	78	91	102	91	233	226	122	89	90	91	97	88	75	78	76	79	81	88.1
25-Feb	80	82	78	76	75	73	75	72	75	71	73	63	74	89	87	30	10	33	11	10	360	357	4	10	67.8
26-Feb	20	25	47	34	48	52	51	43	50	45	42	42	31	35	32	16	11	357	349	348	341	343	343	340	23.0
27-Feb	326	327	330	332	313	314	313	317	311	315	307	307	272	242	256	252	254	252	239	267	264	263	272	265	294.2
28-Feb	254	235	191	131	86	88	89	90	91	91	90	87	86	86	85	88	90	85	89	88	90	157	224	282	91.8
	43.7	33.5	31.6	37.3	33.1	41.2	36.1	37.2	32.0	32.5	41.7	44.9	49.7	58.9	57.3	49.6	49.7	56.0	55.6	46.6	53.3	48.6	46.0	43.1	
	Diurnal Average																								

UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Fort Chipewyan - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 93 deg on Feb 16 20:00

Minimum Value: 2 deg on Feb 16 16:00

Percentiles: P_1 = 4 P_{10} = 5 Q_1 = 7 Median = 15 Q_3 = 23 P_{90} = 29 P_{99} = 65

Hours in Service:	672
Hours of Data:	663
Hours of Missing Data:	9
Hours of Calibration:	0
Percent Operational Time:	98.7

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	7	6	8	7	11	8	11	6	9	5	5	15	6	6	9	8	9	10	7	4	5	5	4	5	15
2-Feb	7	5	8	7	5	5	5	6	4	6	5	9	9	14	6	7	8	11	44	18	24	24	24	22	44
3-Feb	25	24	23	23	24	22	25	26	33	31	42	32	11	8	6	5	4	4	4	4	6	6	10	10	42
4-Feb	11	UO	UO	UO	UO	UO	UO	UO	14	16	13	17	21	25	23	22	25	24	31	26	26	27	25	21	31
5-Feb	24	23	22	22	26	21	23	21	21	22	30	23	21	26	22	23	19	14	26	6	6	8	5	5	30
6-Feb	5	5	4	6	5	4	6	6	5	5	4	5	8	4	9	7	9	8	12	26	25	37	24	24	37
7-Feb	23	27	25	21	26	22	24	27	23	23	18	27	31	24	23	25	16	18	14	6	6	5	6	5	31
8-Feb	5	6	7	7	10	12	15	29	26	25	23	22	20	19	17	18	17	17	13	13	15	17	13	16	29
9-Feb	14	15	20	21	16	17	20	18	20	23	26	35	26	34	29	21	21	20	17	22	18	25	12	9	35
10-Feb	5	7	6	5	4	4	4	4	4	4	4	9	6	9	9	8	11	12	14	41	43	14	72	53	72
11-Feb	49	32	44	13	9	61	36	29	52	33	28	27	14	7	6	11	47	32	24	17	6	12	14	17	61
12-Feb	21	9	27	11	62	6	56	31	37	25	35	9	9	12	9	17	8	8	7	7	6	4	7	72	72
13-Feb	16	14	15	18	15	19	18	14	17	22	24	19	21	23	26	27	23	43	5	6	7	8	10	9	43
14-Feb	11	17	17	15	17	14	UO	UO	23	29	30	18	39	75	27	25	24	19	21	23	23	21	23	24	75
15-Feb	23	22	21	21	18	14	19	17	13	21	19	20	16	17	19	17	17	15	20	22	24	17	18	35	35
16-Feb	18	79	44	67	20	60	44	29	33	64	23	8	5	5	4	2	4	3	9	93	20	40	25	47	93
17-Feb	23	16	15	15	14	15	15	17	17	20	24	24	24	26	25	25	23	28	26	23	22	24	23	23	28
18-Feb	22	21	22	21	23	23	23	25	22	25	26	24	29	28	23	23	23	26	28	18	19	15	14	19	29
19-Feb	12	11	13	20	15	37	12	11	13	15	16	11	5	4	4	3	3	9	4	5	7	7	5	6	37
20-Feb	5	7	14	12	85	64	18	13	9	7	7	8	13	14	4	4	5	48	36	16	15	6	34	31	85
21-Feb	62	33	12	16	16	14	14	16	17	20	21	25	21	20	22	22	20	19	20	18	20	37	32	35	62
22-Feb	34	27	17	15	10	8	10	9	8	8	10	6	5	4	6	11	8	7	7	8	6	6	6	7	34
23-Feb	6	7	7	7	8	8	6	7	4	4	5	11	7	7	10	9	15	6	5	11	12	11	6	6	15
24-Feb	10	9	9	7	14	8	8	10	9	8	53	14	23	39	6	4	4	6	10	10	4	5	5	5	53
25-Feb	6	5	5	6	6	8	8	7	6	8	7	9	11	3	4	33	22	18	30	21	17	10	14	13	33
26-Feb	12	17	9	14	16	10	11	11	10	13	11	12	15	12	13	22	23	24	25	23	22	20	20	21	25
27-Feb	21	21	23	23	18	17	17	22	18	19	21	23	26	21	19	16	17	15	10	14	9	12	10	12	26
28-Feb	9	12	30	57	8	5	4	4	4	5	5	4	4	5	4	6	5	5	6	8	8	50	18	19	57
	62	79	44	67	85	64	56	31	52	64	53	35	39	75	29	33	47	48	44	93	43	50	72	72	
	Diurnal Maximum																								

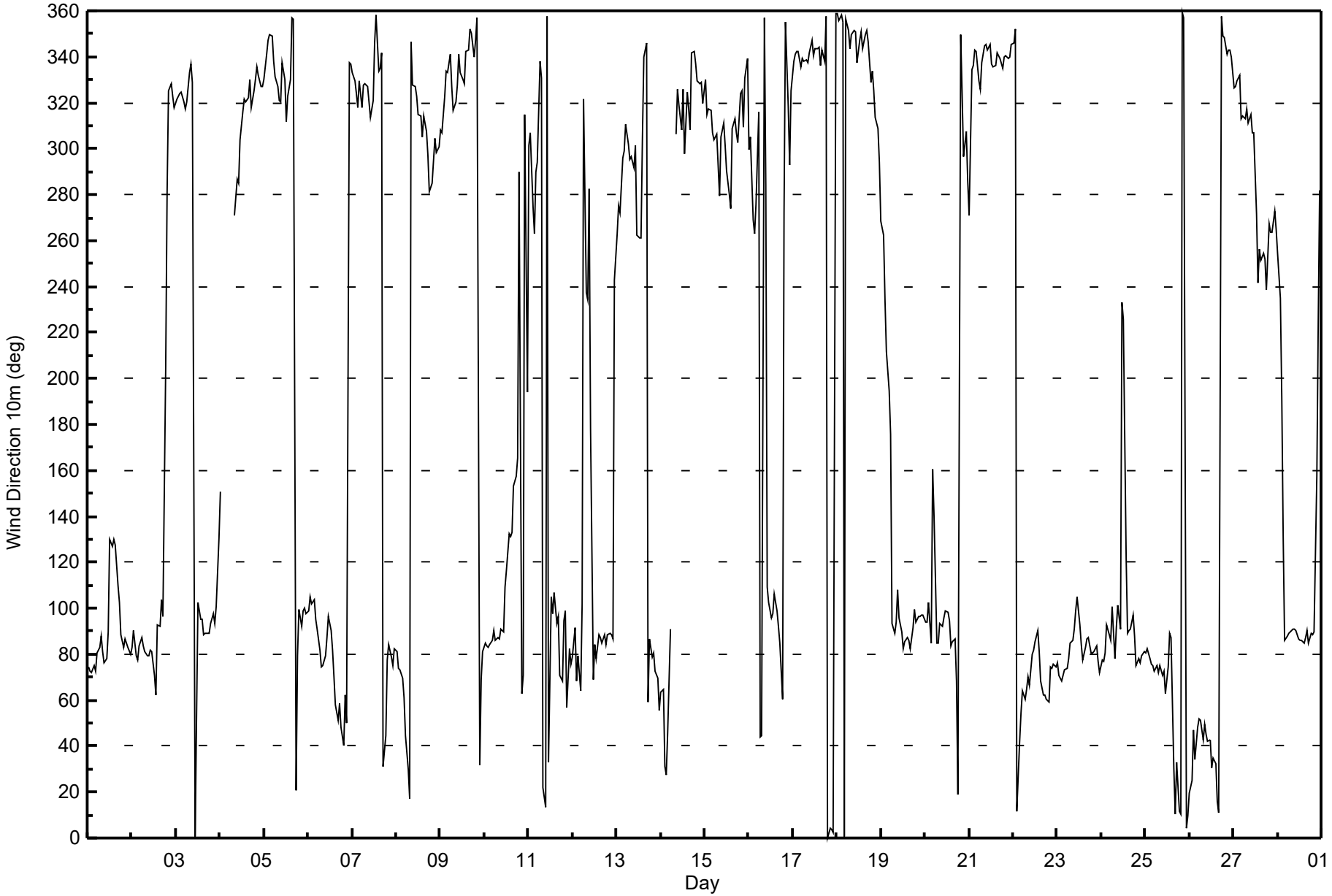
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Fort Chipewyan - February 2026



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS09
BARGE LANDING
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BARGE LANDING (AMS09)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-Min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	641	31	31	100	-	-	21.4	0	2.7	0
TRS(ppb) Average	639	33	33	100	3.9	0	3.6	0	1.3	0
THC(ppm) Average	641	31	31	100	-	-	4.5	-	3	-
NMHC(ppm) Average	641	31	31	100	-	-	1.417	-	0.227	-
CH4(ppm) Average	641	31	31	100	-	-	3.9	-	2.8	0
NO2 (ppb) Average	638	34	34	100	-	-	53.9	0	35.8	-
NO (ppb) Average	638	34	34	100	-	-	163	-	47.5	-
NOX (ppb) Average	638	34	34	100	-	-	211.2	-	82.3	-
PM2.5(ug/m3) Average	669	2	3	99.85	-	-	18.4	0	9.8	0
Temperature (C) Average	672	0	0	100	-	-	9.9	-	0.6	-
Relative Humidity (%) Average	672	0	0	100	-	-	97.5	-	86.4	-
Barometric Pressure (inHg) Average	672	0	0	100	-	-	30	-	29.8	-
Wind Speed 20 m (km/h) Average	672	0	0	100	-	-	33	-	27	-
Wind Direction 20 m (deg) Average	672	0	0	100	-	-	0	-	0	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BARGE LANDING (AMS09)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

						Percentile				
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	641	0.48	1.5	-	0	0	0	0.1	0.4	0.9	21.4
TRS(ppb) Average	639	0.56	0.3	-	0.2	0.3	0.3	0.4	0.7	1	3.6
THC(ppm) Average	641	2.31	0.3	-	2	2.1	2.1	2.2	2.4	2.6	4.5
NMHC(ppm) Average	641	0.048	0.117	-	0	0	0	0	0.1	0.1	1.417
CH4(ppm) Average	641	2.26	0.2	-	2	2.1	2.1	2.2	2.3	2.6	3.9
NO2 (ppb) Average	638	15.45	10.8	-	0.4	3.8	6.8	12.5	23.3	31.3	53.9
NO (ppb) Average	638	12.01	21.8	-	0	0.3	0.6	3.2	13.5	34.3	163
NOX (ppb) Average	638	27.47	30.2	-	0.4	4.9	8.5	16.5	34.6	60.7	211.2
PM2.5(ug/m3) Average	669	5.1	2.6	-	1.2	2.8	3.4	4.5	5.8	8.2	18.4
Temperature (C) Average	672	-16.08	9.8	-	-38.6	-28.8	-23.8	-15.6	-9.7	-3.3	9.9
Relative Humidity (%) Average	672	75.99	10.8	-	34.9	60.7	70	77.8	84.1	88.3	97.5
Barometric Pressure (inHg) Average	672	29.02	0.3	-	28.4	28.7	28.8	29	29.2	29.4	30
Wind Speed 20 m (km/h) Average	672	10.6	6	-	1	4	6	9	13	18	33
Wind Direction 20 m (deg) Average	672	73.5	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BARGE LANDING (AMS09)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
PM2.5	26 Feb 2026 16:00	26 Feb 2026 16:00	1	Maintenance - recalibration to verifiy performance

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Barge Landing - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 21.4 ppb on Feb 28 13:00
Maximum Daily Average: 2.7 ppb on Feb 28

Minimum Value: 0.0 ppb on Feb 1 02:00
Minimum Daily Average: 0.0 ppb on Feb 5
Maximum Diurnal Average: 1.7 ppb at hour 14
Minimum Diurnal Average: 0.2 ppb at hour 23
Monthly Average: 0.48 ppb
Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.4 P_{90} = 0.9 P_{99} = 6.5

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.7	0.0	0.6	0.9	2.0	4.0	2.2	0.8	0.6	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.6	4.0
2-Feb	1.6	Z	2.9	5.9	4.1	2.1	1.3	0.5	0.4	0.3	0.5	1.1	2.2	1.9	1.0	0.7	0.6	0.4	0.3	0.3	0.5	0.2	0.2	0.2	1.3	5.9
3-Feb	0.2	0.1	Z	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.6
4-Feb	1.1	1.4	2.5	Z	0.4	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.5
5-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-Feb	0.0	0.0	0.0	0.1	0.0	Z	0.1	0.1	0.2	0.2	0.4	0.4	0.4	0.3	0.2	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.4
7-Feb	Z	0.2	0.1	0.2	0.7	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.7
8-Feb	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
9-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.5	0.8	0.8	0.5	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.8
11-Feb	0.3	0.3	0.2	0.3	Z	0.5	0.4	0.3	0.4	0.3	0.4	0.6	0.9	1.4	0.9	0.4	0.3	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.4	1.4
12-Feb	0.2	0.1	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.4	0.3	0.5	0.3	0.4	0.4	0.5	0.3	0.1	0.1	0.1	0.2	0.5
13-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.2
14-Feb	0.1	Z	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	0.6	0.4	0.0	0.0	0.0	0.0	0.3	1.1
15-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
16-Feb	0.0	0.0	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
17-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1
18-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.2	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.3	0.2	0.2	0.1	0.3
19-Feb	Z	0.4	0.3	0.3	0.3	0.3	0.4	0.9	1.2	2.7	2.5	7.0	4.5	4.2	2.5	2.1	0.9	0.4	0.1	0.2	0.3	0.2	0.3	0.3	1.4	7.0
20-Feb	0.3	Z	0.5	0.4	0.4	0.5	0.4	0.4	0.3	0.4	0.3	1.1	4.6	8.5	7.0	4.2	1.6	0.4	0.5	1.2	1.3	1.3	1.1	1.3	1.7	8.5
21-Feb	1.1	0.9	Z	0.8	0.7	0.7	0.9	0.7	0.7	0.7	0.7	0.6	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.4	1.1
22-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.2
23-Feb	0.1	0.0	0.1	0.1	Z	0.1	0.0	0.0	0.0	0.1	0.3	0.2	0.5	0.6	0.8	0.6	0.6	0.5	0.5	0.6	0.5	0.4	0.4	0.6	0.3	0.8
24-Feb	0.6	0.5	0.5	0.6	0.6	Z	0.8	0.7	0.9	0.4	0.3	0.3	0.3	0.3	0.8	1.7	3.7	2.8	1.0	0.4	0.2	0.1	0.1	0.2	0.8	3.7
25-Feb	Z	0.2	0.1	0.0	0.1	0.0	0.1	0.3	0.3	0.2	1.1	2.4	5.4	4.2	7.3	11.3	5.9	3.6	2.7	1.7	0.6	0.5	0.4	0.4	2.1	11.3
26-Feb	0.4	Z	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.4
27-Feb	0.0	0.0	Z	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.2
28-Feb	0.4	0.3	0.4	Z	0.5	0.5	0.5	0.4	0.5	0.6	1.3	3.4	21.4	18.4	4.8	3.4	1.5	0.8	0.5	0.4	0.4	0.3	0.3	0.2	2.7	21.4
	0.3	0.2	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.8	1.7	1.7	1.1	1.0	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.2	Diurnal Average	
	1.6	1.4	2.9	5.9	4.1	2.1	1.3	0.9	1.2	2.7	2.5	7.0	21.4	18.4	7.3	11.3	5.9	3.6	2.7	1.7	1.3	1.3	1.1	1.3	Diurnal Maximum	

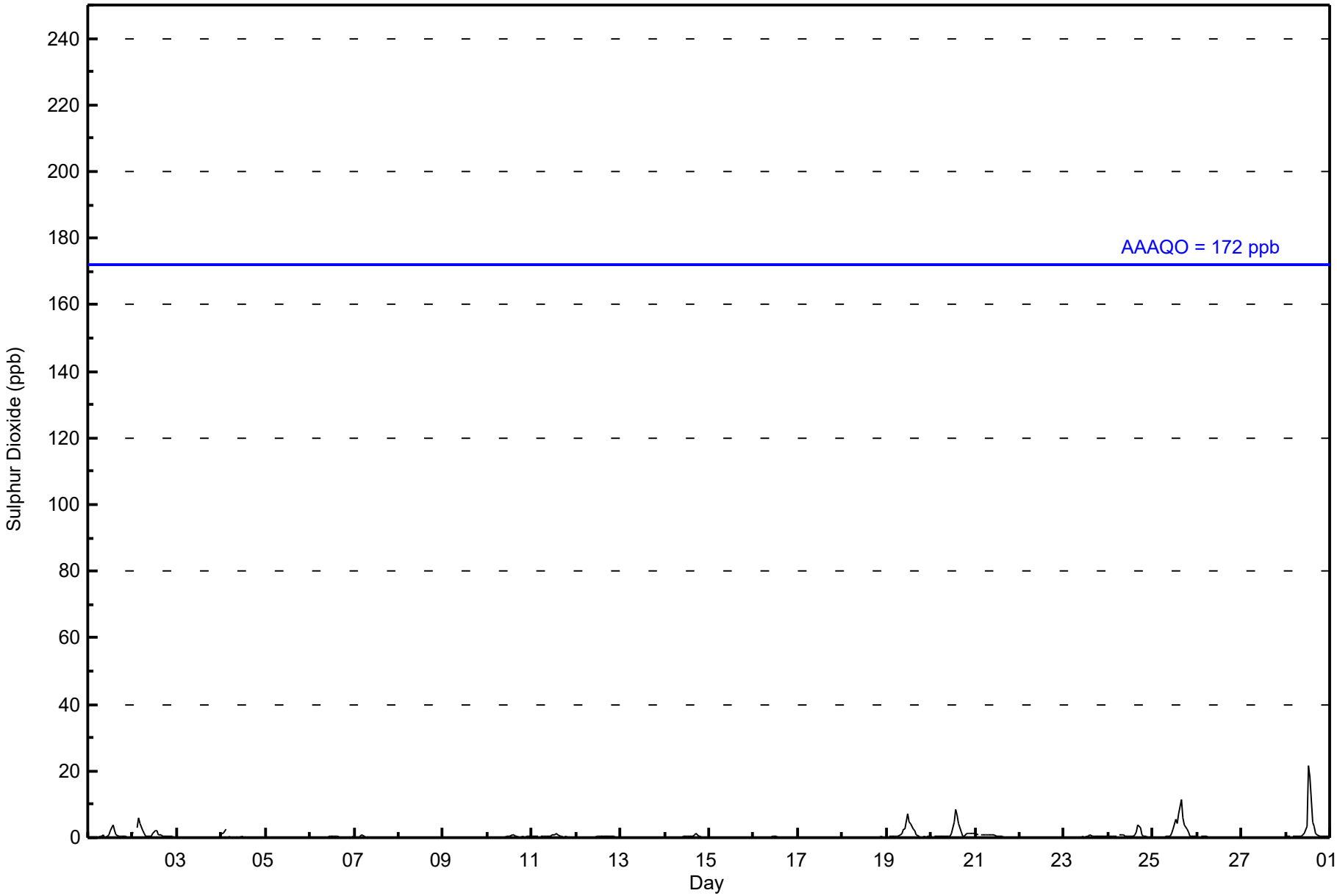
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Barge Landing - February 2026



Sulphur Dioxide (SO_2) - ppb
Barge Landing - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	638	99.53	99.53
11 - 20	2	0.31	99.84
21 - 60	1	0.16	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Barge Landing - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	125	117	42	17	13	4	34	98	44	24	26	17	3	7	16	51	638
11 - 20	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2
21 - 60	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	125	117	42	17	13	4	34	99	45	24	26	18	3	7	16	51	641

Total Number of Valid Hours: 641

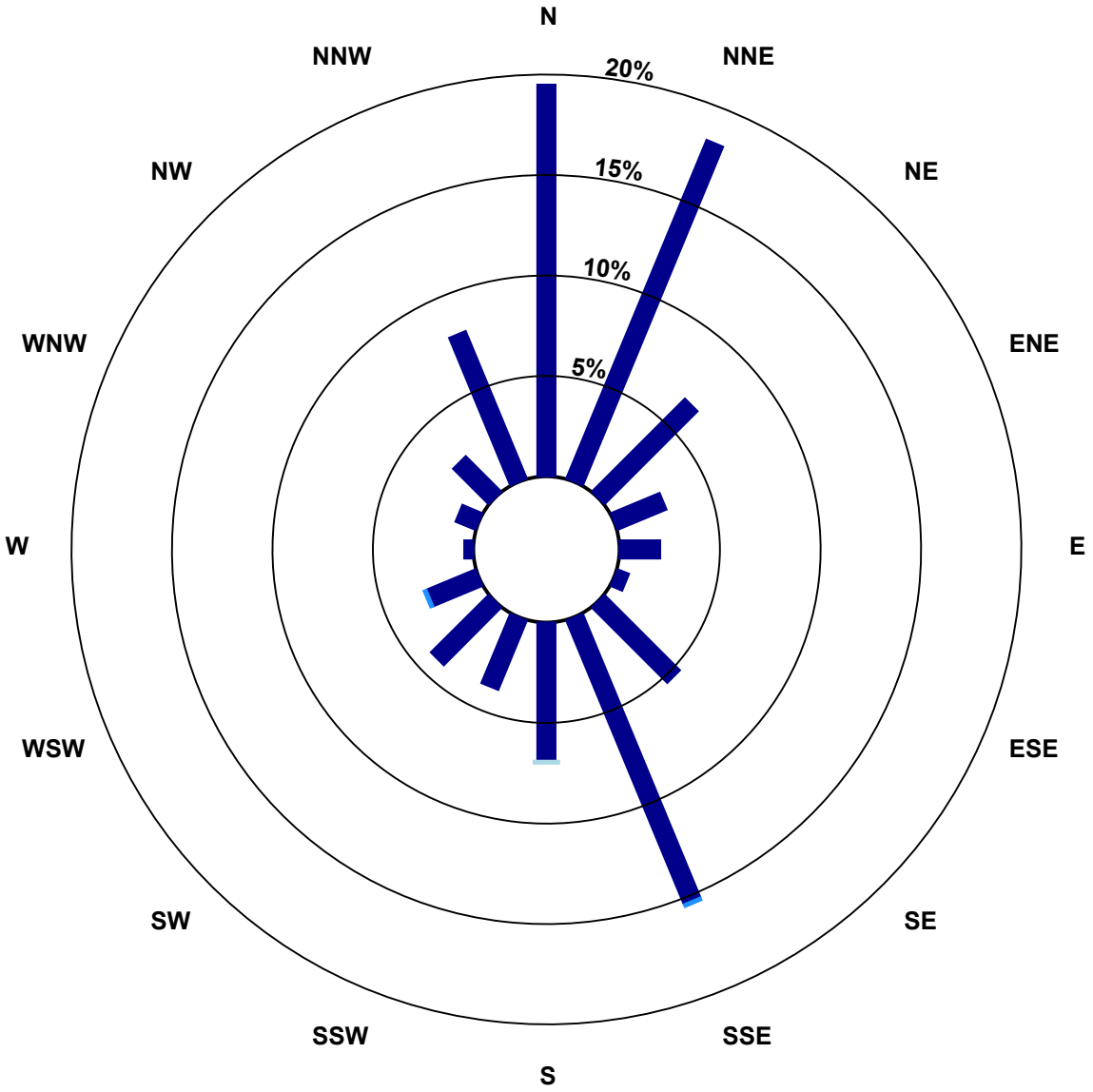
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Barge Landing



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

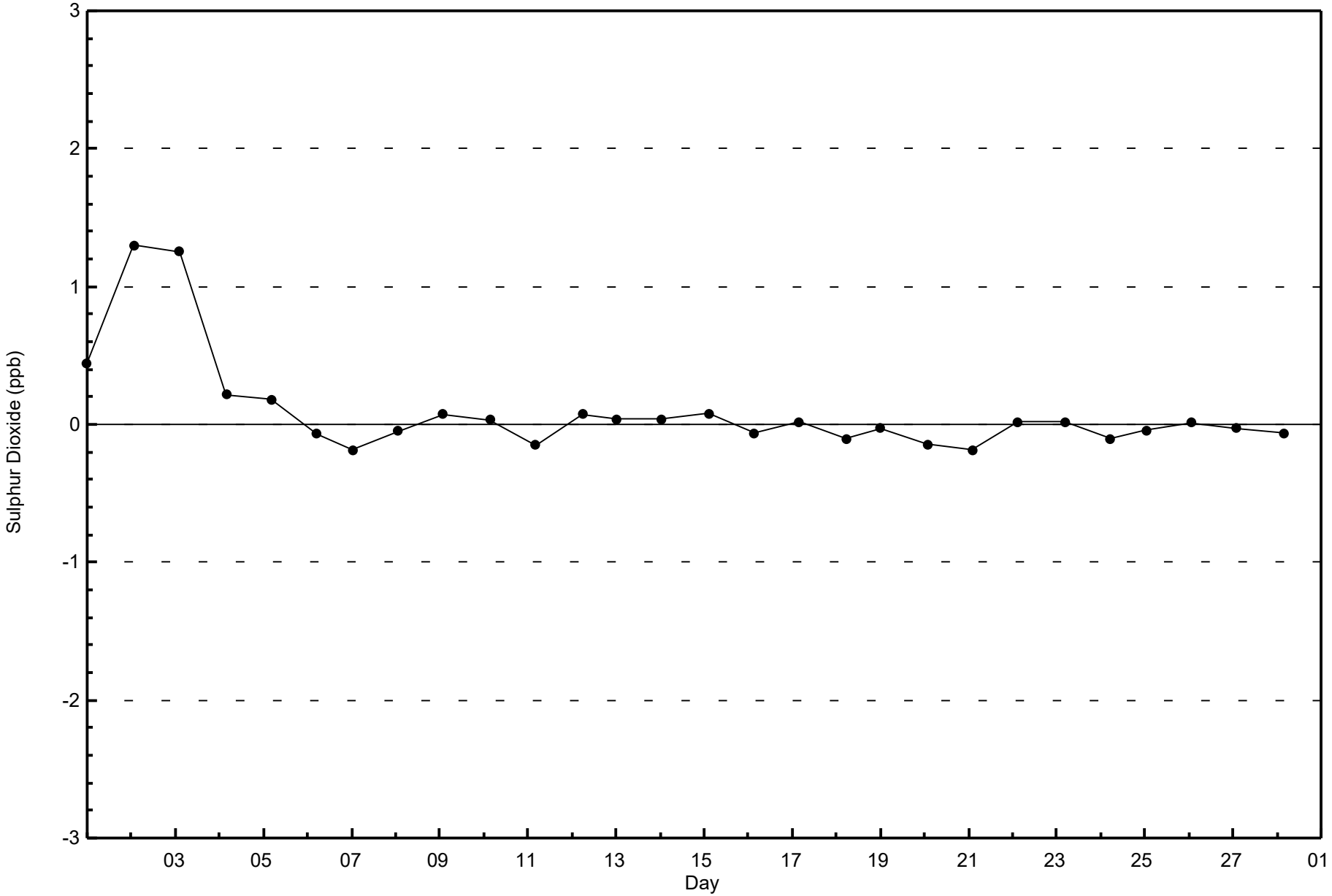
Total Number of Valid Hours: 641

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Barge Landing - February 2026

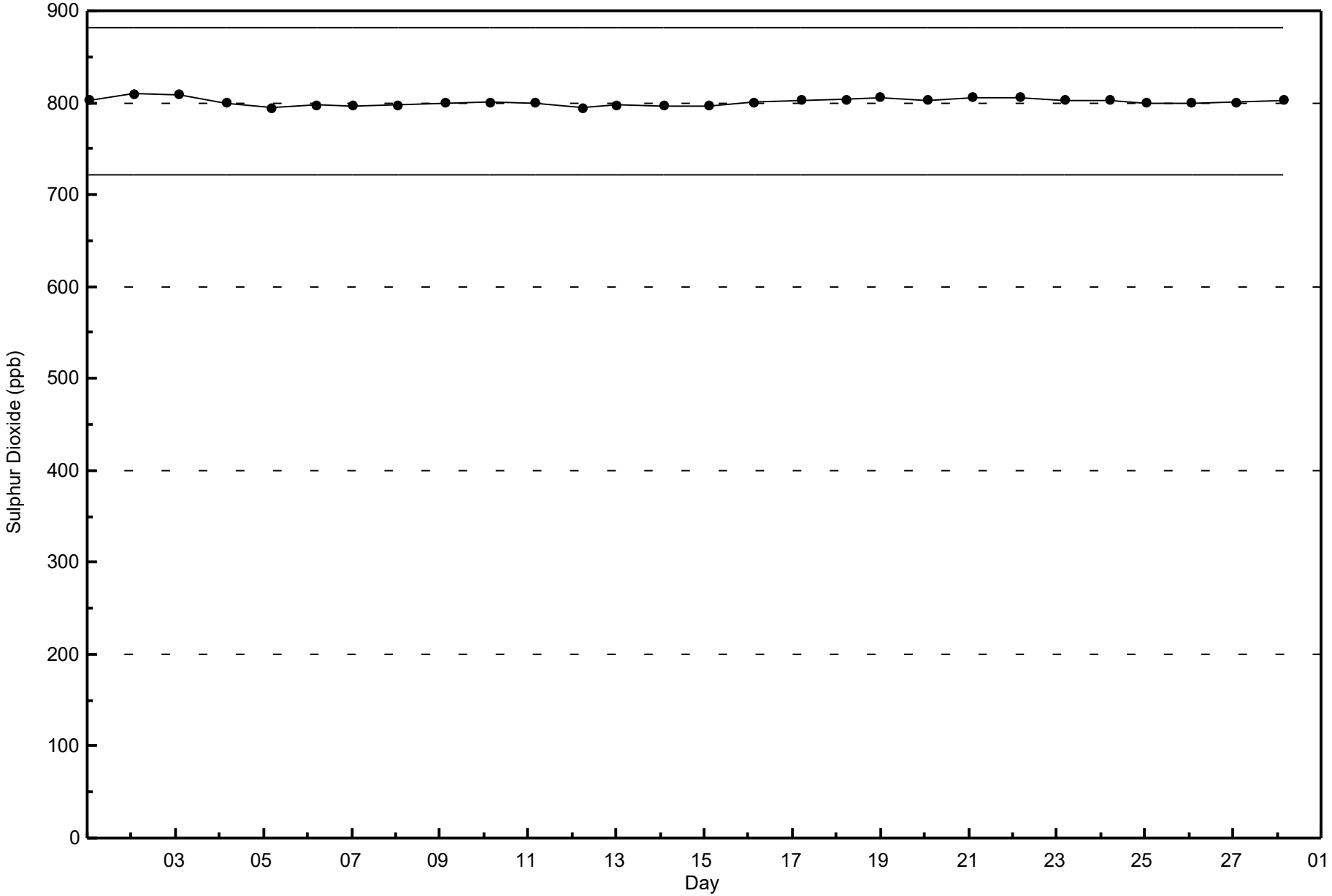


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Barge Landing - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Barge Landing - February 2026

Number of Exceedences (AAAQG): 30-Min: 0

Maximum Value: 3.9 ppb on Feb 14 18:00 Maximum Daily Average: 1.3 ppb on Feb 14

Minimum Value: 0.2 ppb on Feb 1 22:00 Minimum Daily Average: 0.3 ppb on Feb 26

Maximum Diurnal Average: 0.7 ppb at hour 11 Minimum Diurnal Average: 0.5 ppb at hour 23

Monthly Average: 0.56 ppb Percentiles: P_1 = 0.2 P_{10} = 0.3 Q_1 = 0.3 Median = 0.4 Q_3 = 0.7 P_{90} = 1.0 P_{99} = 1.8

Periods in Service:	1344
Periods of Valid Data:	1279
Periods of Invalid Data:	65
Periods of Calibration:	65
Percent Operational Time:	100.0

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.3	Z	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.4
	0.3	SP	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.3		
2-Feb	0.3	0.6	Z	0.5	0.4	0.6	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.9	0.7	0.5	0.4	0.5	1.2
	0.4	0.6	SP	0.5	0.7	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	1.2	0.5	0.5	0.4		
3-Feb	0.5	0.4	0.6	Z	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.6	0.8	0.7	0.6	0.7	0.6	0.5	0.5	0.9
	0.4	0.5	0.6	SP	0.6	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.7	0.6	0.9	0.6	0.9	0.6	0.6	0.5		
4-Feb	0.5	0.4	0.9	0.3	Z	0.4	0.5	0.4	0.3	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.9
	0.4	0.7	0.7	0.4	SP	0.6	0.5	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.3		
5-Feb	0.3	0.4	0.3	0.3	0.3	Z	0.4	0.4	0.3	0.3	0.9	0.4	0.9	0.4	0.5	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.4	0.9
	0.3	0.4	0.3	0.3	0.5	SP	0.4	0.3	0.3	0.3	0.6	0.8	0.5	0.7	0.4	0.7	0.3	0.4	0.4	0.5	0.4	0.5	0.4	0.5		
6-Feb	Z	2.7	1.4	0.4	0.4	0.4	0.5	0.6	0.5	0.6	0.7	0.8	0.8	0.7	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6	2.8
	SP	2.8	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.8	0.8	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6		
7-Feb	0.6	Z	0.6	0.9	0.7	0.4	0.4	0.5	0.3	0.4	0.5	0.8	0.6	0.5	0.5	0.5	0.6	0.3	0.4	0.6	0.3	0.4	0.3	0.4	0.5	1.0
	0.6	SP	0.7	0.9	0.6	0.4	0.7	0.3	0.4	0.5	0.6	0.9	0.6	0.5	0.5	0.6	0.5	0.4	1.0	0.4	0.3	0.3	0.4	0.4		
8-Feb	0.5	0.5	Z	0.5	0.4	0.6	0.7	0.6	0.9	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.4	0.9
	0.4	0.5	SP	0.5	0.5	0.7	0.7	0.7	0.8	0.4	0.4	0.5	0.4	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3		
9-Feb	0.3	0.3	0.4	Z	0.4	0.4	0.5	0.5	0.4	0.6	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.7	0.3	0.4	0.7
	0.3	0.4	0.4	SP	0.4	0.4	0.6	0.4	0.4	0.4	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.4	0.3		
10-Feb	0.3	0.4	0.4	0.3	Z	0.4	0.4	0.4	0.5	0.7	0.6	0.7	0.8	1.2	1.7	1.1	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.7	0.7	1.7
	0.4	0.4	0.3	0.3	SP	0.4	0.4	0.5	0.6	0.6	0.6	0.8	0.9	1.5	1.4	1.0	0.9	0.6	0.7	0.5	0.6	0.6	0.7	0.6		
11-Feb	0.7	0.8	1.0	1.0	1.3	Z	1.3	1.1	1.4	1.6	1.5	1.4	1.3	1.4	1.5	0.7	1.0	1.2	1.5	1.0	0.6	1.3	0.7	0.5	1.1	1.8
	0.7	1.0	0.9	1.2	1.2	SP	1.1	1.2	1.5	1.8	1.5	1.4	1.3	1.7	1.1	0.7	0.8	1.5	1.3	0.7	0.8	1.0	0.6	0.5		
12-Feb	Z	0.6	0.8	0.6	0.4	0.3	0.3	0.3	0.2	0.3	0.6	0.7	0.8	0.8	0.5	0.5	0.4	0.4	0.4	0.4	1.0	0.3	0.2	0.2	0.5	1.0
	SP	0.7	0.8	0.3	0.3	0.3	0.4	0.2	0.3	0.5	0.7	0.9	0.6	0.5	0.5	0.4	0.4	0.3	0.6	0.5	0.7	0.2	0.2	0.2		
13-Feb	0.3	Z	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.5	0.5	0.7	1.3	0.4	1.3
	0.2	SP	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.5	0.9	1.3		
14-Feb	1.4	0.7	Z	2.3	1.2	1.3	1.1	1.2	1.2	1.2	2.2	1.2	1.4	1.0	1.1	1.1	1.2	3.3	2.9	1.8	0.9	0.4	0.4	0.6	1.3	3.9
	0.9	0.8	SP	1.7	1.3	1.2	1.1	1.1	1.2	1.9	1.5	1.5	1.0	1.1	1.2	1.2	1.9	3.9	2.1	1.2	0.5	0.4	0.5	0.7		
15-Feb	0.7	0.6	0.6	Z	0.7	0.5	0.4	0.4	0.5	0.7	0.4	0.4	0.7	0.9	0.4	0.9	0.5	0.3	0.3	0.3	0.5	0.4	0.4	0.5	0.5	1.1
	1.1	0.7	0.5	SP	0.5	0.5	0.4	0.4	0.6	0.4	0.5	0.7	1.1	0.6	0.4	0.6	0.4	0.3	0.3	0.3	0.5	0.4	0.5	0.5		

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Barge Landing - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	0.6	0.5	0.4	0.6	Z	1.1	0.7	0.6	0.6	0.7	1.0	1.2	1.0	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.6	1.2
	0.6	0.4	0.6	0.8	SP	0.7	0.8	0.6	0.5	0.7	1.1	1.1	0.7	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.4		
17-Feb	0.4	0.3	0.3	0.3	0.3	Z	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
	0.3	0.3	0.3	0.3	0.3	SP	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
18-Feb	Z	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.7	0.6	0.5	0.3	0.7
	SP	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.6	0.5	0.6		
19-Feb	0.6	Z	0.7	0.7	0.6	0.6	0.7	0.7	1.0	0.8	0.8	0.8	0.6	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.7	0.8	0.8	0.7	1.0
	0.6	SP	0.7	0.7	0.6	0.8	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.5	0.8	0.8	0.7		
20-Feb	0.6	0.6	Z	0.9	1.4	1.1	1.1	C	C	C	C	C	1.3	1.4	1.4	0.9	1.1	0.6	0.4	0.3	0.4	0.4	0.4	0.4	0.8	1.4
	0.6	0.7	SP	1.0	1.3	1.3	1.1	C	C	C	C	1.1	1.4	1.3	0.9	1.2	1.0	0.4	0.4	0.3	0.4	0.4	0.4	0.4		
21-Feb	0.4	0.4	0.3	Z	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.6
	0.4	0.4	0.3	SP	0.4	0.4	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4		
22-Feb	0.3	0.3	0.3	0.3	Z	0.4	0.3	0.4	0.3	0.4	0.5	0.6	0.6	0.6	0.7	0.6	0.4	0.5	0.4	0.5	0.6	0.5	0.5	0.4	0.5	0.7
	0.3	0.3	0.3	0.3	SP	0.4	0.4	0.4	0.3	0.5	0.5	0.6	0.6	0.6	0.7	0.5	0.5	0.4	0.5	0.5	0.6	0.5	0.5	0.4		
23-Feb	0.4	0.4	0.5	0.5	0.4	Z	0.3	0.3	0.3	0.3	0.4	0.6	0.6	0.7	0.6	0.6	0.6	0.9	1.0	1.2	1.1	1.0	0.9	1.1	0.7	1.2
	0.4	0.4	0.5	0.4	0.3	SP	0.3	0.3	0.3	0.4	0.5	0.7	0.8	0.6	0.7	0.6	0.8	1.1	1.0	1.2	1.0	0.9	1.0	1.1		
24-Feb	Z	1.0	1.0	1.0	1.0	1.3	1.5	1.7	2.0	1.3	0.9	0.9	1.0	0.6	0.5	0.4	0.4	0.4	0.5	0.6	0.4	0.3	0.3	0.3	0.8	2.0
	SP	0.9	1.0	1.0	1.1	1.4	1.7	1.7	1.7	1.0	0.9	0.8	0.7	0.5	0.5	0.4	0.4	0.5	0.5	0.6	0.4	0.3	0.3	0.3		
25-Feb	0.4	Z	0.6	0.4	0.5	0.5	0.5	0.6	0.8	0.5	2.0	0.8	0.7	0.6	0.8	1.2	0.9	1.1	1.1	0.7	0.4	0.3	0.3	0.3	0.7	2.0
	0.4	SP	0.4	0.5	0.5	0.5	0.5	0.7	0.6	1.0	1.8	0.6	0.7	0.6	0.9	1.1	0.9	1.2	0.8	0.5	0.4	0.3	0.3	0.3		
26-Feb	0.3	0.3	Z	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
	0.3	0.3	SP	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
27-Feb	0.3	0.3	0.3	Z	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	0.3	0.3	0.3	SP	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4		
28-Feb	0.8	0.6	0.7	0.7	Z	1.0	1.0	0.8	0.7	0.7	0.8	0.7	1.3	1.5	0.7	0.5	0.4	0.4	0.4	0.5	0.7	0.6	0.6	0.7	0.7	1.7
	0.7	0.7	0.7	0.8	SP	1.2	0.8	0.7	0.7	0.7	0.7	0.9	1.7	0.9	0.5	0.4	0.4	0.4	0.4	0.6	0.7	0.6	0.7	0.7		
	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.7	0.6	0.7	0.6	0.6	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	Diurnal Average	
	1.4	2.8	1.4	2.3	1.4	1.4	1.7	1.7	2.0	1.9	2.2	1.5	1.7	1.7	1.7	1.2	1.9	3.9	2.9	1.8	1.2	1.3	1.0	1.3	Diurnal Maximum	

Z - zerospan C - Calibration SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Barge Landing - February 2026

Maximum Value: 3.6 ppb on Feb 14 18:00

Maximum Daily Average: 1.3 ppb on Feb 14

Minimum Value: 0.2 ppb on Feb 1 22:00

Minimum Daily Average: 0.3 ppb on Feb 26

Maximum Diurnal Average: 0.7 ppb at hour 11

Minimum Diurnal Average: 0.5 ppb at hour 23

Monthly Average: 0.56 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.3 Q_1 = 0.3 Median = 0.4 Q_3 = 0.7 P_{90} = 1.0 P_{99} = 1.8

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.3	Z	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.4
2-Feb	0.4	0.6	Z	0.5	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	1.0	0.6	0.5	0.4	0.5	1.0
3-Feb	0.4	0.5	0.6	Z	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.8	0.7	0.7	0.7	0.6	0.5	0.5	0.8
4-Feb	0.4	0.5	0.8	0.4	Z	0.5	0.5	0.4	0.3	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.8
5-Feb	0.3	0.4	0.3	0.3	0.4	Z	0.4	0.3	0.3	0.3	0.7	0.6	0.7	0.6	0.4	0.5	0.3	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.4	0.7
6-Feb	Z	2.8	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.8	0.6	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6	2.8
7-Feb	0.6	Z	0.6	0.9	0.7	0.4	0.5	0.4	0.3	0.4	0.6	0.8	0.6	0.5	0.5	0.6	0.6	0.4	0.7	0.5	0.3	0.3	0.3	0.4	0.5	0.9
8-Feb	0.4	0.5	Z	0.5	0.4	0.7	0.7	0.7	0.8	0.4	0.4	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.4	0.8
9-Feb	0.3	0.3	0.4	Z	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.3	0.4	0.5
10-Feb	0.3	0.4	0.4	0.3	Z	0.4	0.4	0.5	0.5	0.7	0.6	0.7	0.9	1.4	1.5	1.0	0.9	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7	1.5
11-Feb	0.7	0.9	1.0	1.1	1.3	Z	1.2	1.2	1.5	1.7	1.5	1.4	1.3	1.6	1.3	0.7	0.9	1.4	1.4	0.9	0.7	1.1	0.7	0.5	1.1	1.7
12-Feb	Z	0.7	0.8	0.5	0.4	0.3	0.4	0.3	0.3	0.4	0.6	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.9	0.3	0.2	0.2	0.5	0.9
13-Feb	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.8	1.3	0.4	1.3
14-Feb	1.2	0.8	Z	2.0	1.3	1.2	1.1	1.2	1.2	1.5	1.8	1.4	1.2	1.1	1.2	1.1	1.5	3.6	2.5	1.5	0.7	0.4	0.4	0.6	1.3	3.6
15-Feb	0.9	0.7	0.5	Z	0.6	0.5	0.4	0.4	0.5	0.5	0.4	0.6	0.9	0.8	0.4	0.8	0.4	0.3	0.3	0.3	0.5	0.4	0.4	0.5	0.5	0.9
16-Feb	0.6	0.4	0.5	0.7	Z	0.9	0.7	0.6	0.5	0.7	1.1	1.1	0.9	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.6	1.1
17-Feb	0.4	0.3	0.3	0.3	0.3	Z	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
18-Feb	Z	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.6	0.5	0.5	0.3	0.6
19-Feb	0.6	Z	0.7	0.7	0.6	0.7	0.7	0.8	1.0	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.4	0.5	0.7	0.8	0.7	0.7	1.0
20-Feb	0.6	0.7	Z	1.0	1.4	1.2	1.1	C	C	C	C	C	1.3	1.4	1.1	1.1	1.0	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.8	1.4
21-Feb	0.4	0.4	0.3	Z	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.6
22-Feb	0.3	0.3	0.3	0.3	Z	0.4	0.3	0.4	0.3	0.5	0.5	0.6	0.6	0.6	0.7	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.5	0.7
23-Feb	0.4	0.4	0.5	0.4	0.3	Z	0.3	0.3	0.3	0.4	0.4	0.6	0.7	0.7	0.6	0.6	0.7	1.0	1.0	1.2	1.0	0.9	0.9	1.1	0.7	1.2
24-Feb	Z	1.0	1.0	1.0	1.1	1.4	1.6	1.7	1.8	1.2	0.9	0.9	0.9	0.5	0.5	0.4	0.4	0.5	0.5	0.6	0.4	0.3	0.3	0.3	0.8	1.8
25-Feb	0.4	Z	0.5	0.4	0.5	0.5	0.5	0.7	0.7	0.8	1.9	0.7	0.7	0.6	0.9	1.2	0.9	1.1	0.9	0.6	0.4	0.3	0.3	0.3	0.7	1.9
26-Feb	0.3	0.3	Z	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
27-Feb	0.3	0.3	0.3	Z	0.4	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
28-Feb	0.7	0.7	0.7	0.8	Z	1.1	0.9	0.7	0.7	0.7	0.7	0.8	1.5	1.2	0.6	0.5	0.4	0.4	0.4	0.5	0.7	0.6	0.7	0.7	0.7	1.5
	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.7	0.6	0.7	0.6	0.6	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	Diurnal Average	
	1.2	2.8	1.0	2.0	1.4	1.4	1.6	1.7	1.8	1.7	1.9	1.4	1.5	1.6	1.5	1.2	1.5	3.6	2.5	1.5	1.0	1.1	0.9	1.3	Diurnal Maximum	

Z - zerospan C - Calibration

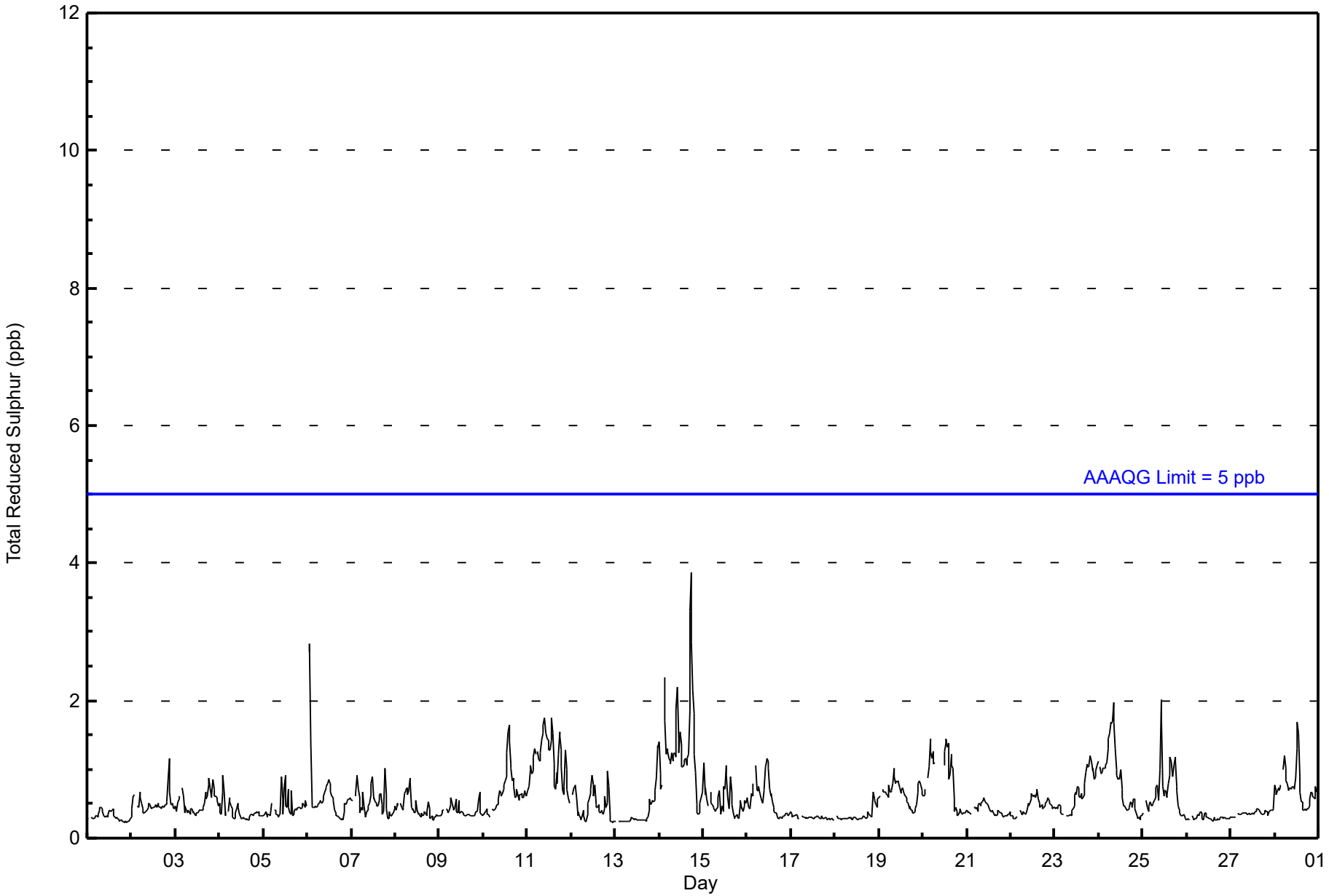
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Barge Landing - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	637	99.69	99.69
3 - 4	2	0.31	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Barge Landing - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	126	116	42	19	11	5	35	96	41	24	26	18	4	7	17	50	637
3 - 4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	127	116	42	19	11	5	35	96	41	24	26	18	4	7	17	51	639

Total Number of Valid Hours: 639

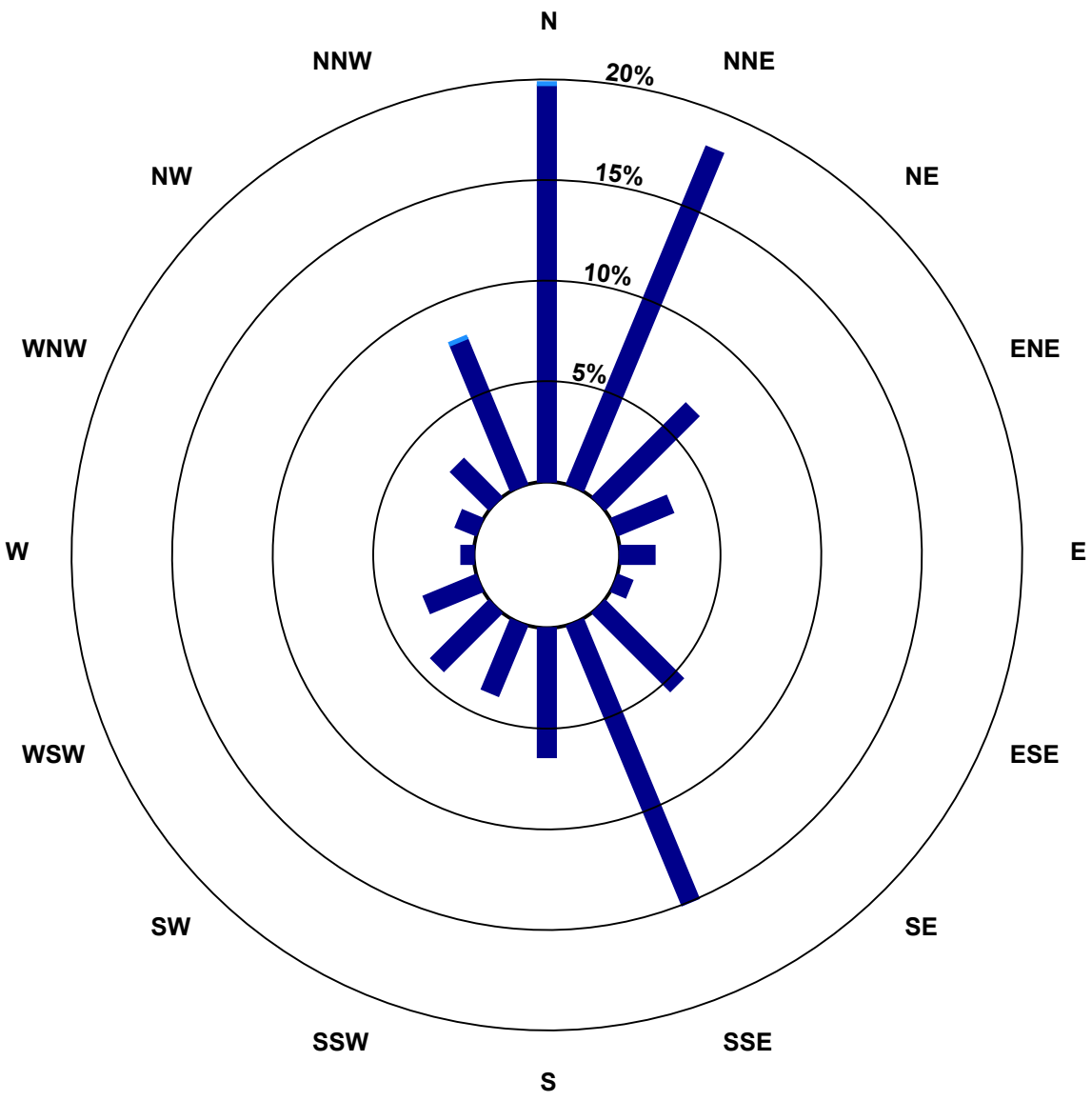
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Barge Landing



Classes (ppb)

- 0 - 2
- 3 - 4
- 5 - 7
- 8 - 11
- > 11

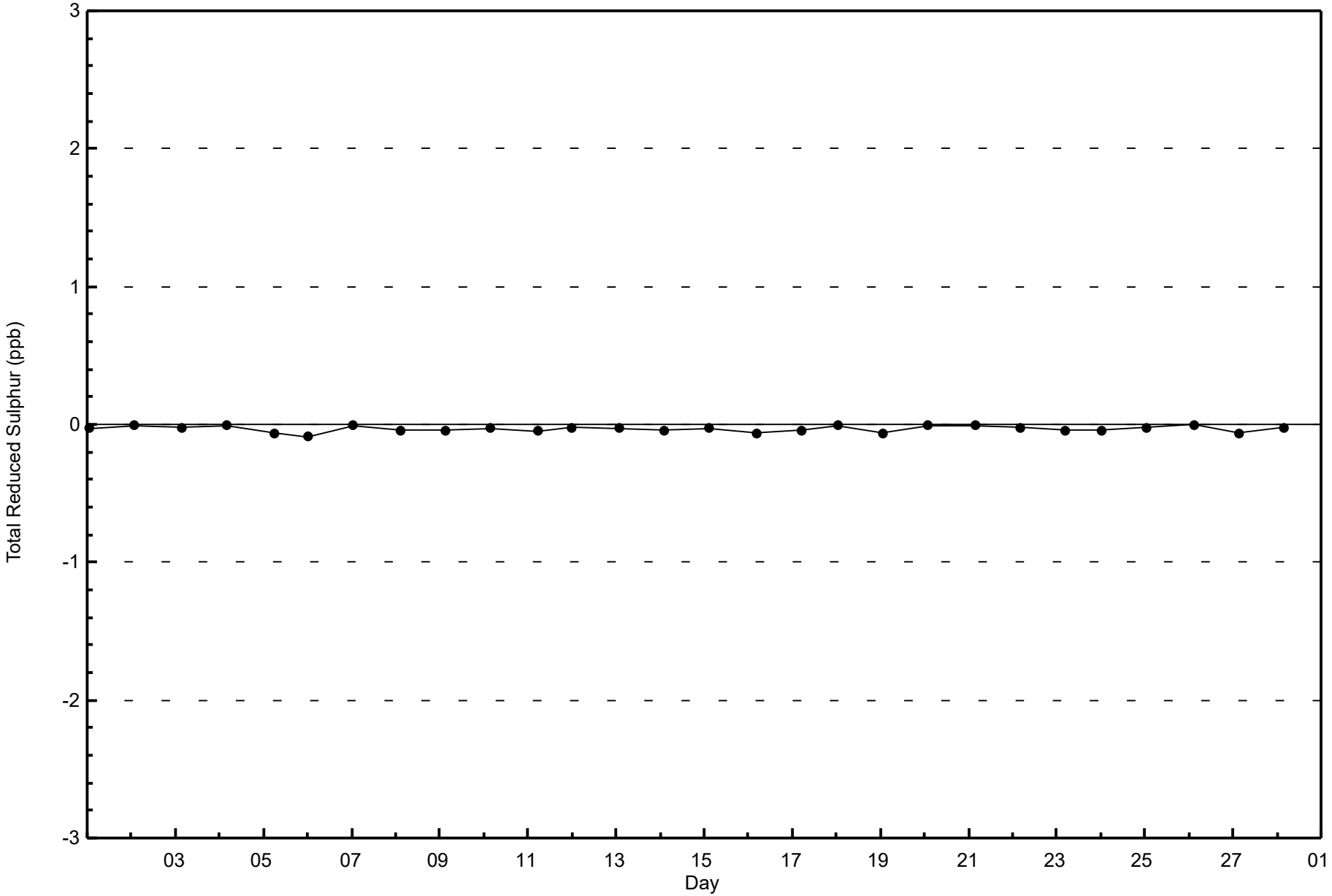
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Barge Landing - February 2026

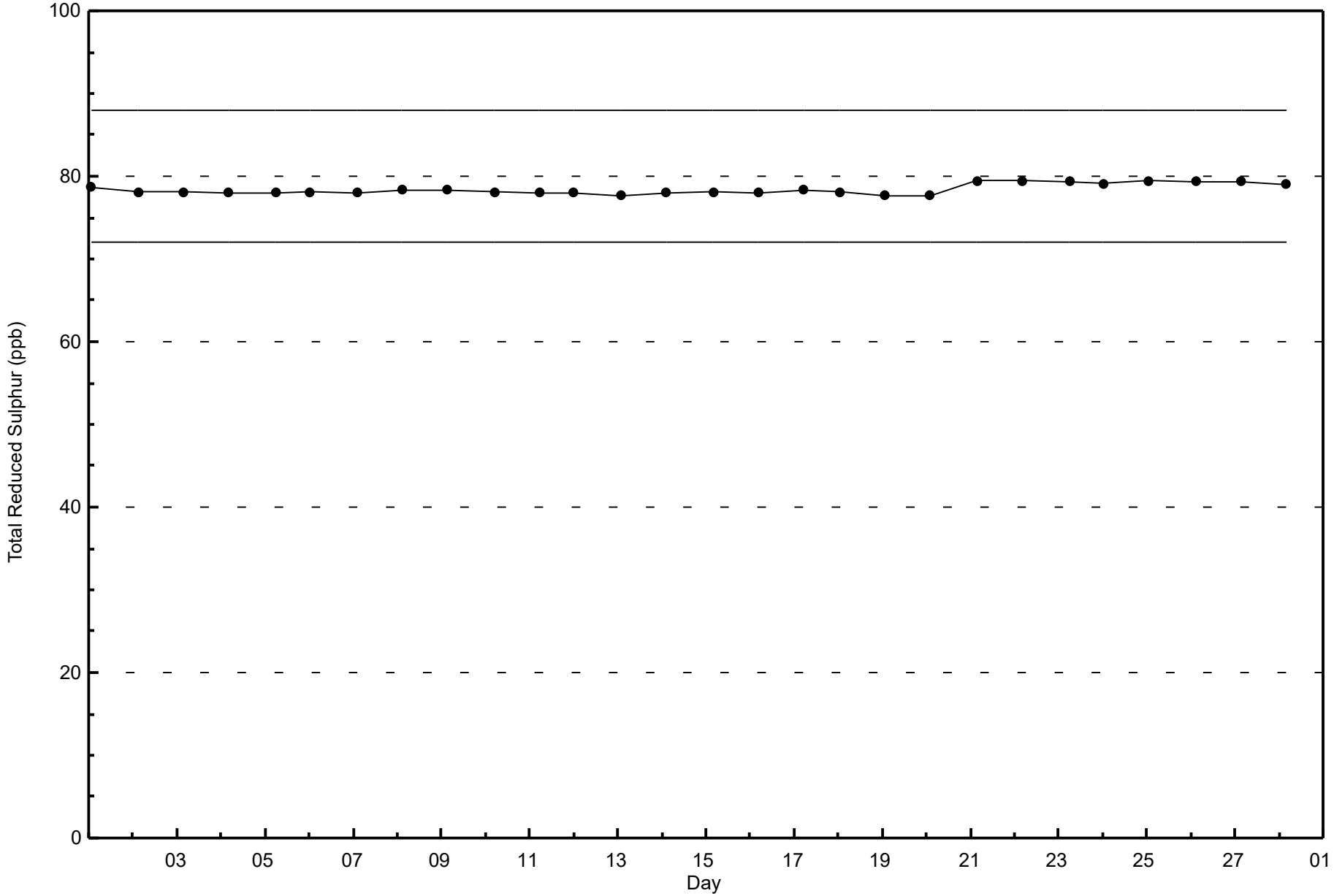


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Barge Landing - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Barge Landing - February 2026

Maximum Value: 4.5 ppm on Feb 16 12:00

Maximum Daily Average: 3.0 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 12 23:00

Minimum Daily Average: 2.1 ppm on Feb 13

Maximum Diurnal Average: 2.4 ppm at hour 13

Minimum Diurnal Average: 2.2 ppm at hour 16

Monthly Average: 2.31 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.1 Q_1 = 2.1 Median = 2.2 Q_3 = 2.4 P_{90} = 2.6 P_{99} = 3.6

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
2-Feb	2.2	Z	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.5	3.6	3.0	2.6	2.8	2.5	2.4	3.6
3-Feb	2.4	2.4	Z	2.3	2.4	2.5	2.2	2.1	2.1	2.3	2.2	2.1	2.2	2.2	2.2	2.2	2.4	2.4	2.5	2.4	2.4	2.4	2.3	2.2	2.3	2.5
4-Feb	2.1	2.2	2.1	Z	2.2	2.3	2.3	2.2	2.1	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
5-Feb	2.2	2.2	2.2	2.2	Z	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2
6-Feb	2.2	2.4	2.3	2.2	2.3	Z	2.4	2.4	2.4	2.6	2.9	3.1	3.1	2.7	2.6	2.2	2.1	2.1	2.1	2.1	2.4	2.5	2.6	2.6	2.4	3.1
7-Feb	Z	2.6	2.6	2.9	2.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.3	2.2	2.3	2.2	2.2	2.2	2.4	2.3	2.3	2.9
8-Feb	2.3	Z	2.4	2.4	2.3	2.4	2.4	2.4	2.5	2.4	2.4	2.3	2.7	2.5	2.3	2.2	2.4	2.2	2.2	2.1	2.2	2.1	2.2	2.2	2.3	2.7
9-Feb	2.3	2.2	Z	2.6	2.5	2.3	2.4	2.2	2.1	2.2	2.2	C	C	C	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.2	2.6
10-Feb	2.1	2.2	2.2	Z	2.3	2.3	2.3	2.2	2.3	2.6	2.5	2.4	2.5	2.8	2.8	2.5	2.4	2.3	2.2	2.2	2.2	2.2	2.3	2.4	2.4	2.8
11-Feb	2.7	2.9	2.6	2.5	Z	2.5	2.5	2.5	2.5	2.5	2.4	2.3	2.3	2.3	2.4	2.3	2.5	2.8	3.0	2.5	2.5	2.7	2.7	2.7	2.5	3.0
12-Feb	2.7	2.7	2.5	2.2	2.2	Z	2.1	2.0	2.0	2.1	2.1	2.3	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.0	2.0	2.0	2.2	2.7
13-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.3	2.4	2.8	2.1	2.8
14-Feb	2.7	Z	2.8	3.1	2.7	2.6	2.6	2.5	2.7	3.0	3.3	3.6	3.9	3.4	3.2	2.9	3.6	3.9	3.8	3.3	2.5	2.2	2.4	2.4	3.0	3.9
15-Feb	2.4	2.2	Z	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.5	2.2	2.5
16-Feb	2.6	2.4	2.7	Z	2.7	2.5	2.5	2.4	2.3	2.6	3.4	4.5	4.0	2.4	2.6	2.3	2.2	2.1	2.2	2.2	2.3	2.3	2.3	2.4	2.6	4.5
17-Feb	2.2	2.3	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
18-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
19-Feb	Z	2.1	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.3	2.4	2.3	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.4
20-Feb	2.2	Z	2.3	2.3	2.3	2.3	2.2	2.3	2.4	2.5	2.4	2.3	2.3	2.2	2.5	3.0	3.1	2.4	2.5	2.2	2.3	2.1	2.2	2.4	2.4	3.1
21-Feb	2.2	2.3	Z	2.3	2.2	2.2	2.2	2.3	2.2	2.2	2.3	2.3	2.4	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.4
22-Feb	2.1	2.1	2.1	Z	2.1	2.3	2.3	2.2	2.1	2.3	2.2	2.3	2.5	2.4	2.5	2.3	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.5
23-Feb	2.4	2.4	2.4	2.3	Z	2.0	2.0	2.0	2.0	2.1	2.2	2.3	2.4	2.2	2.3	2.4	2.6	2.9	2.9	2.8	2.8	3.1	3.2	3.1	2.5	3.2
24-Feb	2.9	2.8	2.8	2.8	2.8	Z	3.1	3.1	3.1	2.8	2.6	2.5	2.4	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5	3.1
25-Feb	Z	2.1	2.1	2.1	2.3	2.3	2.4	2.6	2.7	2.5	3.1	2.5	2.4	2.1	2.1	2.1	2.1	3.3	2.9	2.5	2.4	2.2	2.2	2.2	2.4	3.3
26-Feb	2.2	Z	2.2	2.3	2.2	2.2	2.5	2.3	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.5
27-Feb	2.1	2.1	Z	2.1	2.1	2.2	2.3	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.1	2.1	2.3	2.4	2.3	2.2	2.4
28-Feb	2.3	2.3	2.3	Z	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.3	2.3	2.2	2.3
	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	Diurnal Average	
	2.9	2.9	2.8	3.1	2.8	2.6	3.1	3.1	3.1	3.0	3.4	4.5	4.0	3.4	3.2	3.0	3.6	3.9	3.8	3.6	3.0	3.1	3.2	3.1	Diurnal Maximum	

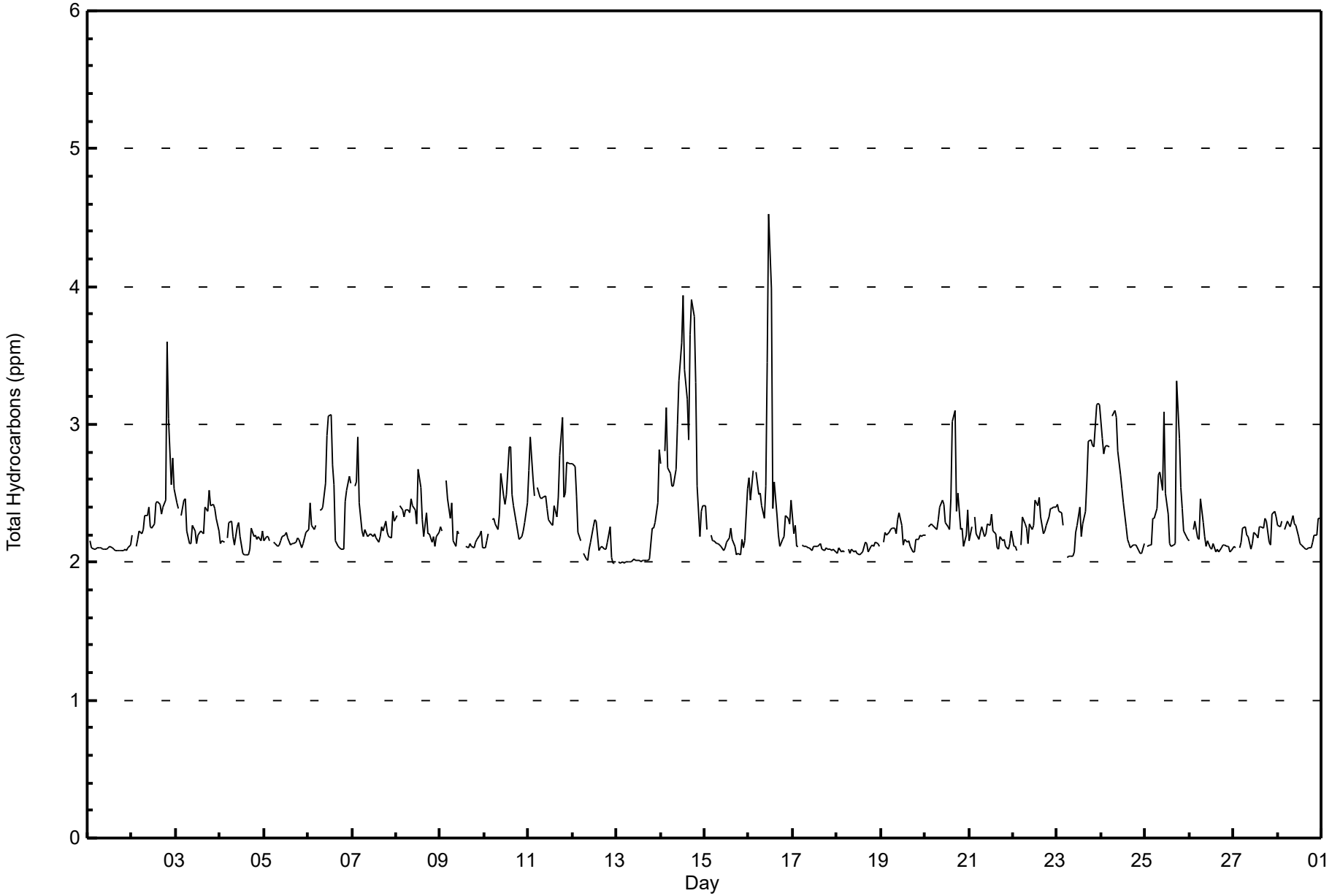
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Barge Landing - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Total Hydrocarbons (THC) - ppm

Barge Landing - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	27	4.21	4.21
2.1 - 3.0	589	91.89	96.10
3.1 - 10.0	25	3.90	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Barge Landing - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	0	0	0	0	1	0	3	0	0	4	11	7	1	0	0	0	27
2.1 - 3.0	118	115	41	17	11	4	31	95	44	20	15	11	2	6	16	43	589
3.1 - 10.0	7	2	1	0	1	0	0	4	1	0	0	0	0	1	0	8	25
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	125	117	42	17	13	4	34	99	45	24	26	18	3	7	16	51	641

Total Number of Valid Hours: 641

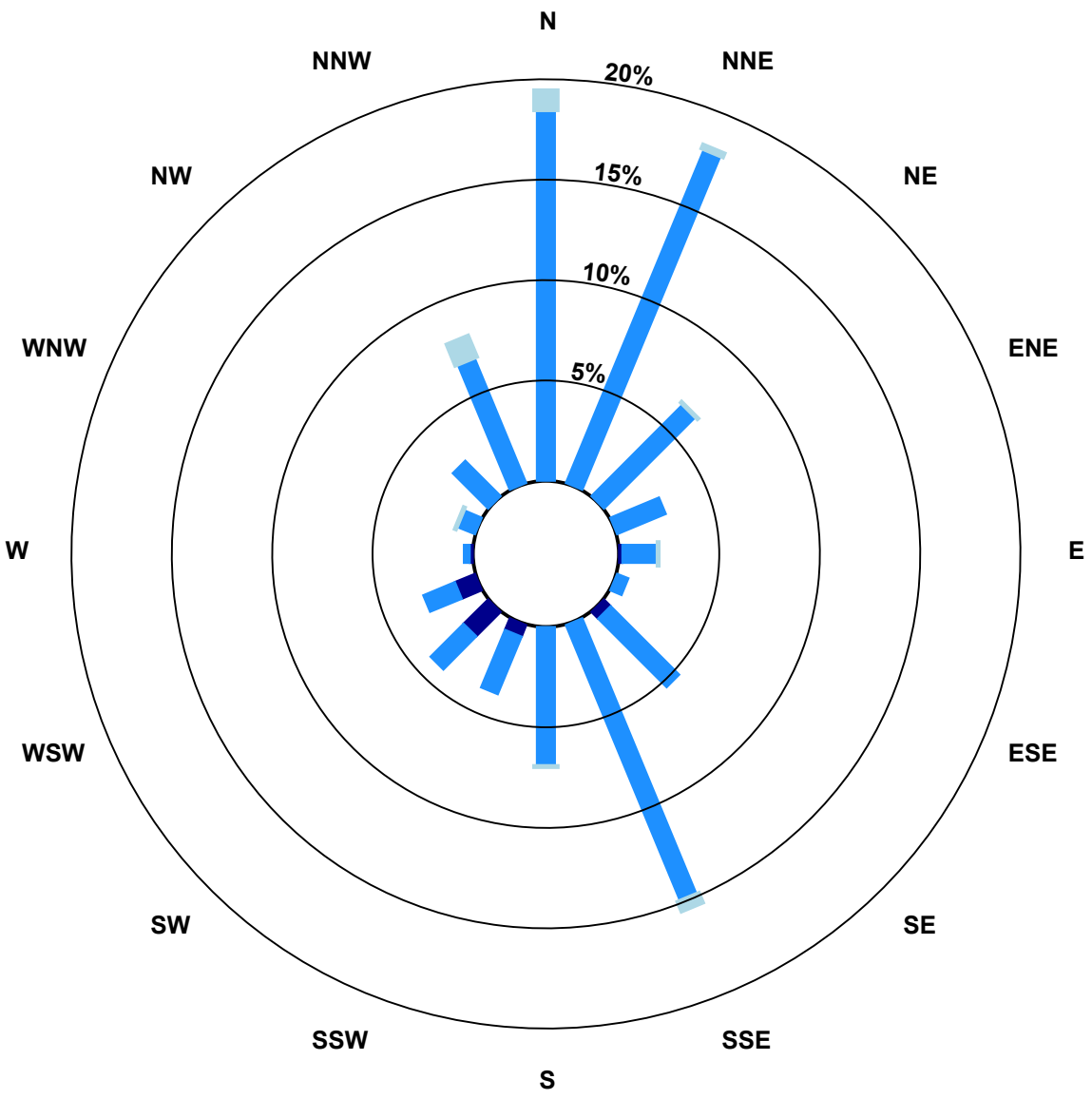
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Barge Landing



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

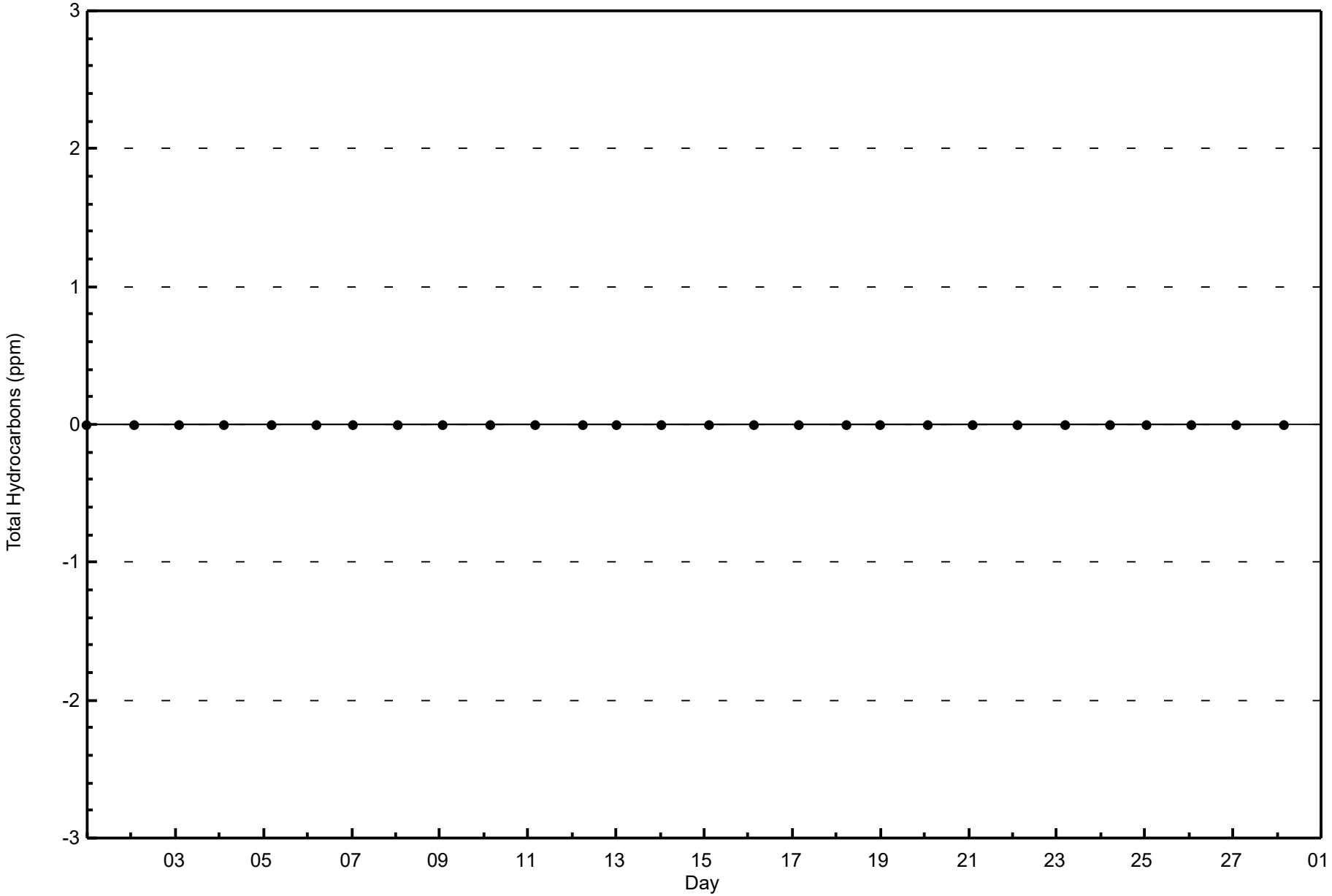
Total Number of Valid Hours: 641

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Barge Landing - February 2026

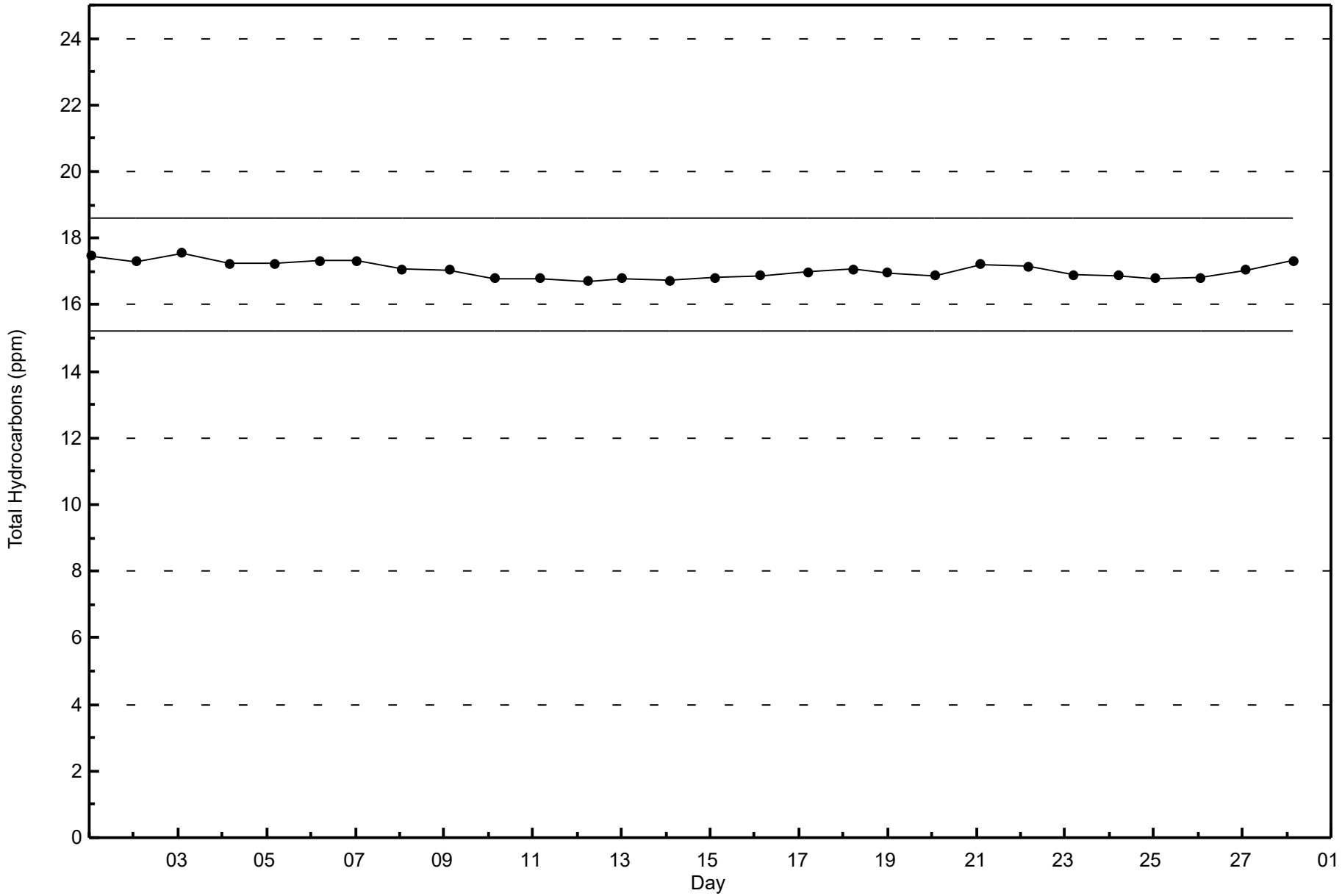


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Barge Landing - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Barge Landing - February 2026

Maximum Value: 1.417 ppm on Feb 16 12:00

Maximum Daily Average: 0.227 ppm on Feb 16

Minimum Value: 0.000 ppm on Feb 1 02:00

Minimum Daily Average: 0.000 ppm on Feb 1

Maximum Diurnal Average: 0.143 ppm at hour 13

Minimum Diurnal Average: 0.018 ppm at hour 5

Monthly Average: 0.048 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.1 P_{90} = 0.1 P_{99} = 0.6

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002
2-Feb	0.003	Z	0.000	0.000	0.000	0.000	0.009	0.062	0.065	0.082	0.009	0.036	0.086	0.135	0.104	0.101	0.085	0.098	0.106	0.224	0.076	0.056	0.089	0.074	0.065	0.224
3-Feb	0.043	0.025	Z	0.025	0.040	0.034	0.013	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.029	0.012	0.050	0.030	0.035	0.030	0.004	0.000	0.016	0.050
4-Feb	0.000	0.000	0.000	Z	0.001	0.079	0.053	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.041	0.022	0.065	0.020	0.053	0.003	0.065	0.018	0.079
5-Feb	0.000	0.001	0.014	0.004	Z	0.000	0.018	0.007	0.022	0.023	0.003	0.025	0.007	0.002	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.025
6-Feb	0.000	0.001	0.001	0.000	0.000	Z	0.000	0.000	0.009	0.023	0.025	0.074	0.164	0.109	0.080	0.005	0.000	0.000	0.000	0.000	0.065	0.088	0.087	0.085	0.035	0.164
7-Feb	Z	0.069	0.076	0.107	0.058	0.000	0.000	0.044	0.006	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.009	0.024	0.043	0.005	0.001	0.013	0.175	0.039	0.029	0.175
8-Feb	0.002	Z	0.010	0.023	0.003	0.002	0.002	0.002	0.005	0.000	0.001	0.014	0.543	0.435	0.197	0.020	0.110	0.001	0.001	0.000	0.002	0.002	0.000	0.001	0.060	0.543
9-Feb	0.002	0.001	Z	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.002	C	C	C	0.000	0.006	0.037	0.048	0.000	0.029	0.000	0.001	0.001	0.000	0.006	0.048
10-Feb	0.009	0.040	0.009	Z	0.000	0.000	0.000	0.000	0.004	0.041	0.071	0.122	0.103	0.199	0.178	0.073	0.028	0.010	0.030	0.010	0.013	0.020	0.030	0.025	0.044	0.199
11-Feb	0.046	0.083	0.035	0.028	Z	0.088	0.061	0.051	0.015	0.002	0.002	0.004	0.024	0.080	0.090	0.038	0.026	0.100	0.156	0.071	0.050	0.061	0.005	0.000	0.049	0.156
12-Feb	0.001	0.005	0.012	0.000	0.000	Z	0.000	0.000	0.000	0.003	0.028	0.103	0.106	0.072	0.036	0.054	0.021	0.013	0.000	0.014	0.061	0.000	0.000	0.000	0.023	0.106
13-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.007	0.223	0.010	0.223
14-Feb	0.201	Z	0.076	0.072	0.025	0.030	0.032	0.024	0.014	0.024	0.057	0.386	0.861	0.572	0.425	0.214	0.473	0.042	0.000	0.149	0.029	0.000	0.002	0.076	0.164	0.861
15-Feb	0.021	0.007	Z	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.020	0.088	0.004	0.000	0.000	0.000	0.000	0.002	0.010	0.010	0.060	0.010	0.088
16-Feb	0.078	0.021	0.055	Z	0.062	0.033	0.032	0.021	0.005	0.010	0.258	1.417	1.364	0.149	0.417	0.229	0.088	0.000	0.000	0.000	0.223	0.232	0.188	0.345	0.227	1.417
17-Feb	0.094	0.181	0.007	0.018	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.035	0.036	0.039	0.058	0.071	0.027	0.025	0.038	0.036	0.029	0.024	0.034	0.018	0.033	0.181
18-Feb	0.010	0.041	0.014	0.032	0.018	Z	0.038	0.010	0.043	0.023	0.030	0.008	0.000	0.009	0.016	0.085	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.085
19-Feb	Z	0.000	0.000	0.002	0.006	0.000	0.001	0.001	0.015	0.094	0.062	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.008	0.094
20-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.004	0.026	0.047	0.047	0.041	0.054	0.047	0.198	0.665	0.579	0.105	0.340	0.134	0.159	0.000	0.078	0.262	0.121	0.665
21-Feb	0.000	0.062	Z	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.030	0.129	0.022	0.013	0.102	0.071	0.082	0.014	0.000	0.028	0.100	0.029	0.129
22-Feb	0.000	0.004	0.002	Z	0.011	0.204	0.178	0.111	0.020	0.131	0.101	0.110	0.256	0.196	0.202	0.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.256
23-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.002	0.042	0.007	0.048	0.028	0.148	0.098	0.093	0.134	0.121	0.105	0.092	0.216	0.248	0.190	0.068	0.248
24-Feb	0.140	0.151	0.156	0.155	0.138	Z	0.167	0.172	0.155	0.080	0.030	0.027	0.064	0.051	0.035	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.067	0.172
25-Feb	Z	0.000	0.000	0.008	0.051	0.026	0.051	0.037	0.022	0.016	0.087	0.096	0.114	0.003	0.000	0.000	0.000	0.715	0.277	0.144	0.195	0.030	0.033	0.008	0.083	0.715
26-Feb	0.000	Z	0.000	0.009	0.005	0.024	0.331	0.153	0.044	0.000	0.047	0.009	0.003	0.063	0.008	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.031	0.331
27-Feb	0.048	0.010	Z	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.022	0.033	0.000	0.063	0.000	0.000	0.001	0.000	0.016	0.011	0.075	0.096	0.091	0.020	0.096
28-Feb	0.044	0.034	0.050	Z	0.005	0.035	0.040	0.041	0.119	0.074	0.078	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.022	0.011	0.065	0.055	0.031	0.119
	0.032	0.032	0.022	0.022	0.018	0.023	0.037	0.027	0.021	0.024	0.035	0.096	0.143	0.083	0.088	0.064	0.061	0.053	0.045	0.041	0.039	0.033	0.042	0.062	Diurnal Average	
	0.201	0.181	0.156	0.155	0.138	0.204	0.331	0.172	0.155	0.131	0.258	1.417	1.364	0.572	0.425	0.665	0.579	0.715	0.340	0.224	0.223	0.232	0.248	0.345	Diurnal Maximum	

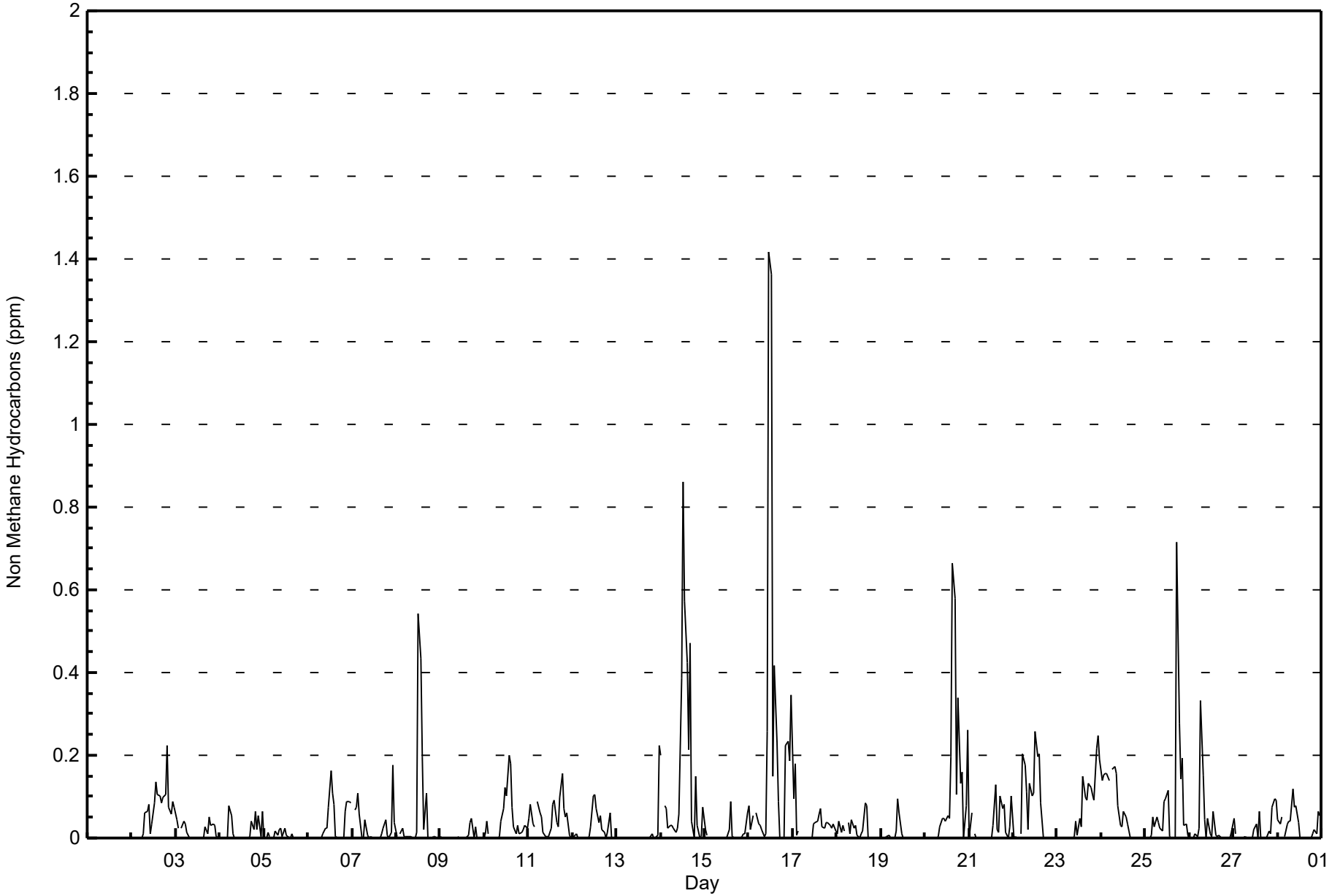
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Barge Landing - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Barge Landing - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	305	47.58	47.58
0.006 - 0.05	181	28.24	75.82
0.06 - 0.1	103	16.07	91.89
> 0.1	52	8.11	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Barge Landing - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	20	69	29	12	7	4	28	53	10	9	17	12	2	2	8	23	305
0.006 - 0.05	51	32	8	0	3	0	2	27	18	8	5	4	0	3	6	14	181
0.06 - 0.1	27	11	4	5	2	0	2	14	16	5	4	2	1	0	2	8	103
> 0.1	27	5	1	0	1	0	2	5	1	2	0	0	0	2	0	6	52
Totals	125	117	42	17	13	4	34	99	45	24	26	18	3	7	16	51	641

Total Number of Valid Hours: 641

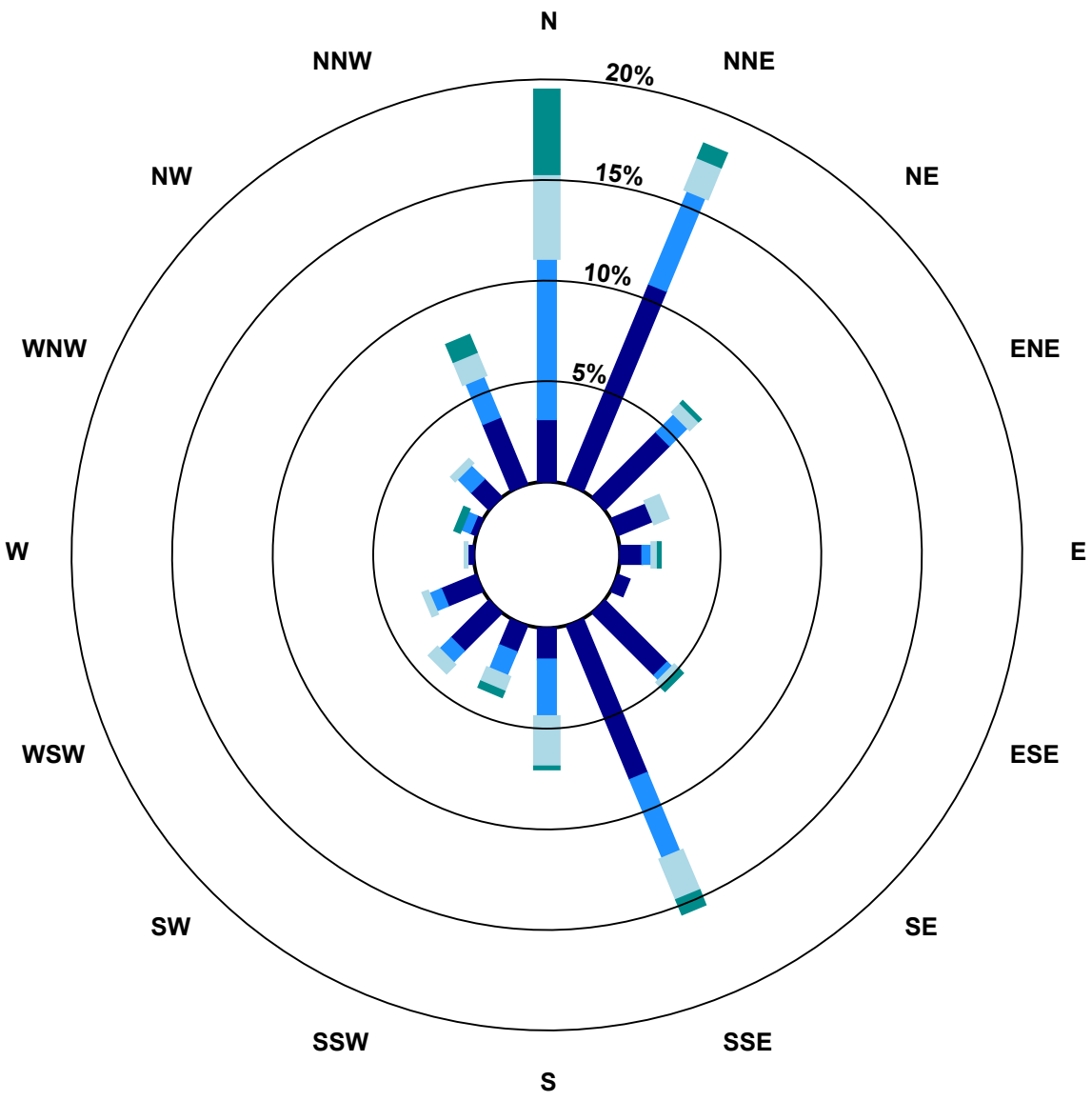
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Barge Landing



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

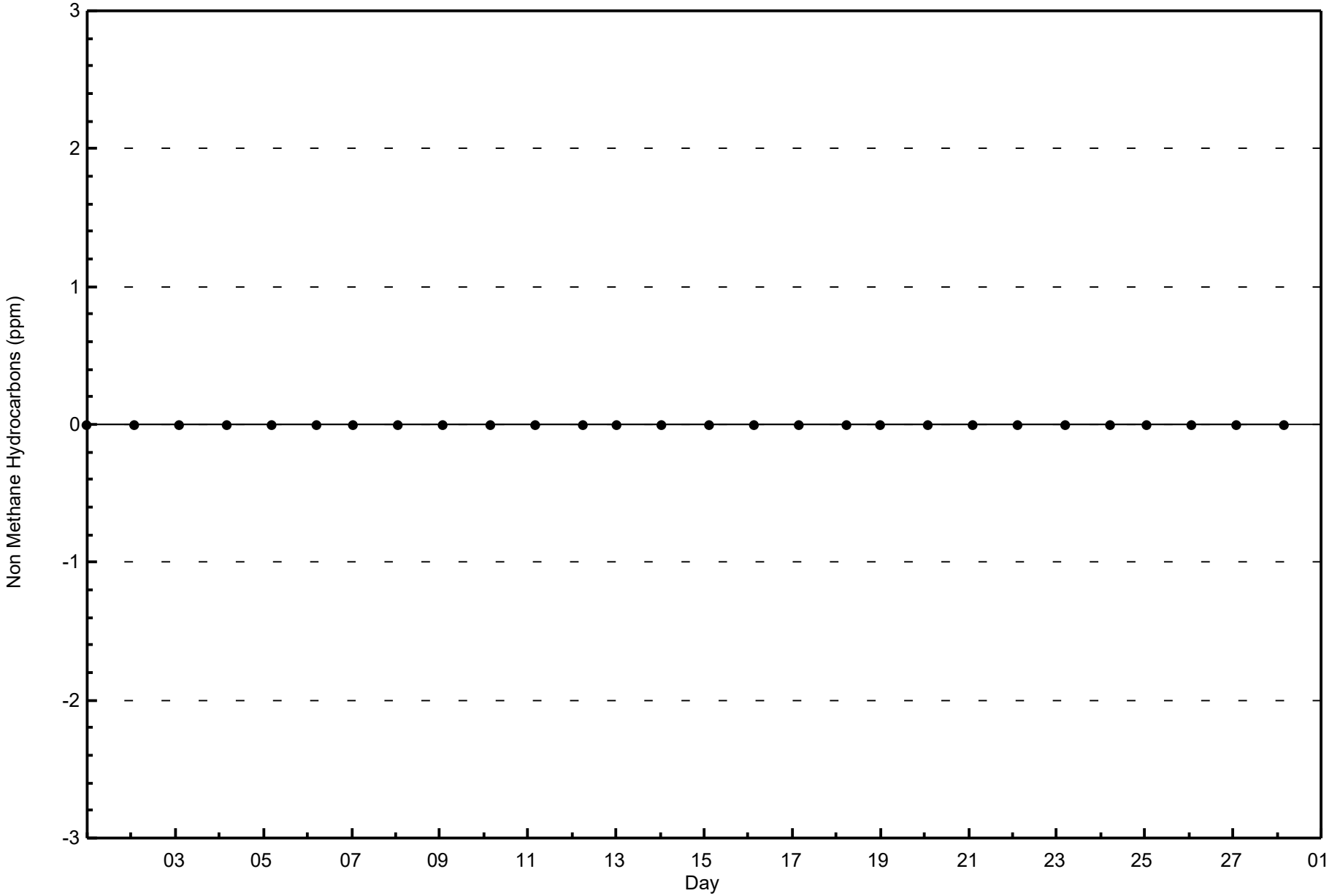
Total Number of Valid Hours: 641

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Barge Landing - February 2026

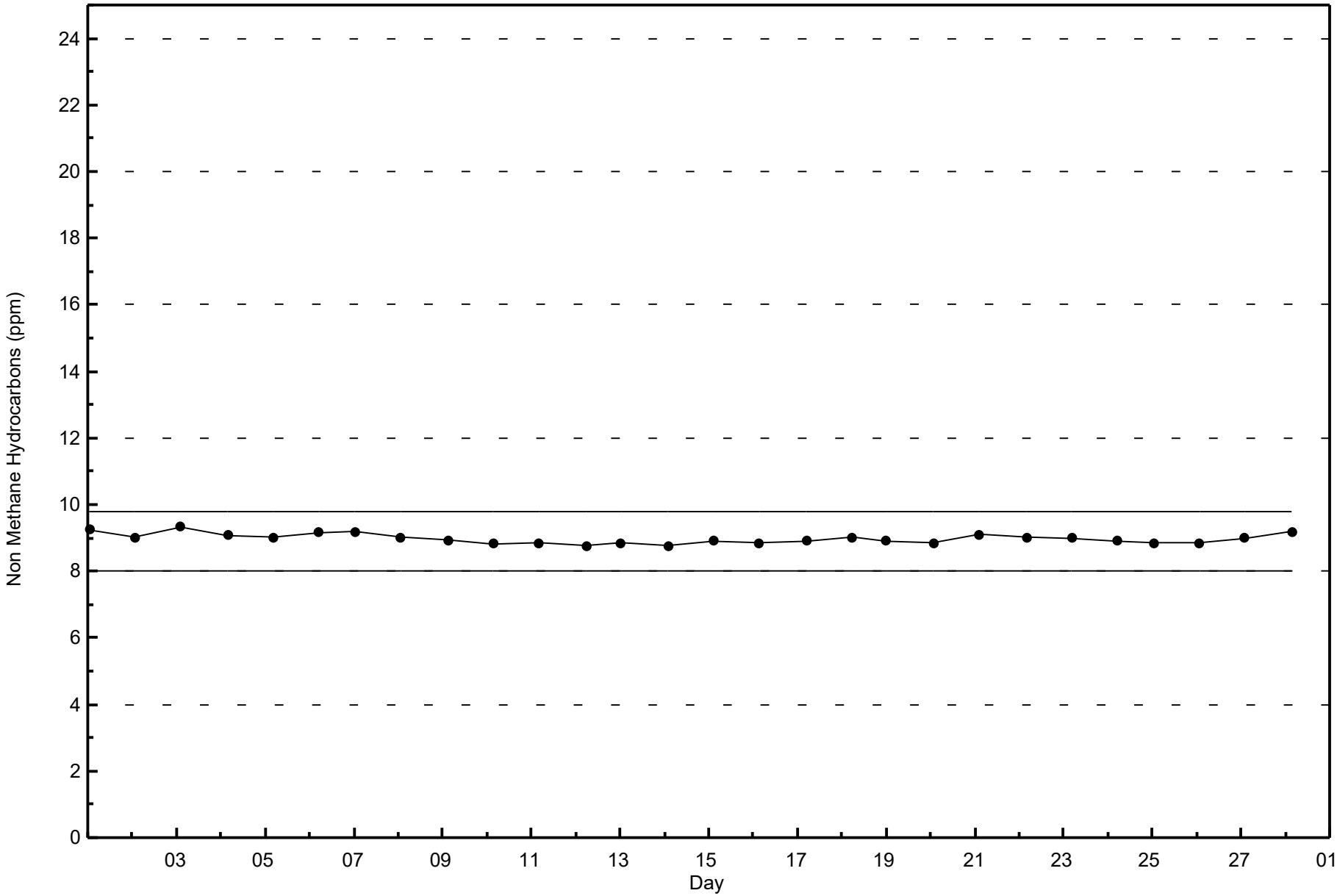


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Barge Landing - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Barge Landing - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 3.9 ppm on Feb 14 18:00
Maximum Daily Average: 2.8 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 12 23:00
Maximum Diurnal Average: 2.3 ppm at hour 11
Monthly Average: 2.26 ppm
Minimum Daily Average: 2.1 ppm on Feb 18
Minimum Diurnal Average: 2.2 ppm at hour 16
Percentiles: P_1 = 2.0 P_{10} = 2.1 Q_1 = 2.1 Median = 2.2 Q_3 = 2.3 P_{90} = 2.6 P_{99} = 3.2

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
2-Feb	2.2	Z	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.0	2.5	2.7	2.5	2.4	3.4
3-Feb	2.4	2.4	Z	2.3	2.4	2.4	2.2	2.1	2.1	2.3	2.2	2.1	2.2	2.2	2.2	2.2	2.4	2.4	2.5	2.4	2.4	2.4	2.3	2.2	2.3	2.5
4-Feb	2.1	2.2	2.1	Z	2.2	2.2	2.2	2.2	2.1	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.3
5-Feb	2.2	2.2	2.2	2.2	Z	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2
6-Feb	2.2	2.4	2.3	2.2	2.3	Z	2.4	2.4	2.4	2.5	2.9	3.0	2.9	2.6	2.5	2.1	2.1	2.1	2.1	2.1	2.4	2.4	2.5	2.5	2.4	3.0
7-Feb	Z	2.5	2.5	2.8	2.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.8
8-Feb	2.3	Z	2.4	2.4	2.3	2.4	2.4	2.4	2.5	2.4	2.4	2.3	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.2	2.1	2.2	2.2	2.3	2.5
9-Feb	2.3	2.2	Z	2.6	2.5	2.3	2.4	2.2	2.1	2.2	2.2	C	C	C	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.2	2.6
10-Feb	2.1	2.1	2.2	Z	2.3	2.3	2.3	2.2	2.3	2.6	2.4	2.3	2.4	2.6	2.7	2.4	2.4	2.3	2.2	2.2	2.2	2.2	2.3	2.4	2.3	2.7
11-Feb	2.6	2.8	2.6	2.5	Z	2.5	2.4	2.4	2.5	2.5	2.4	2.3	2.3	2.2	2.3	2.3	2.4	2.7	2.9	2.4	2.5	2.7	2.7	2.7	2.5	2.9
12-Feb	2.7	2.7	2.5	2.2	2.2	Z	2.1	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.0	2.0	2.0	2.2	2.7
13-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.3	2.4	2.6	2.1	2.6
14-Feb	2.5	Z	2.7	3.0	2.7	2.6	2.5	2.5	2.7	3.0	3.3	3.2	3.1	2.8	2.8	2.7	3.2	3.9	3.8	3.2	2.5	2.2	2.4	2.3	2.8	3.9
15-Feb	2.4	2.2	Z	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.5	2.2	2.5
16-Feb	2.5	2.4	2.6	Z	2.6	2.5	2.5	2.4	2.3	2.5	3.2	3.1	2.6	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.4	3.2
17-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
18-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
19-Feb	Z	2.1	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.3	2.3	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3
20-Feb	2.2	Z	2.3	2.3	2.3	2.3	2.2	2.3	2.4	2.4	2.4	2.2	2.2	2.2	2.3	2.4	2.5	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.5
21-Feb	2.2	2.2	Z	2.3	2.2	2.2	2.2	2.3	2.2	2.2	2.3	2.3	2.4	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.4
22-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.2	2.4
23-Feb	2.4	2.4	2.4	2.3	Z	2.0	2.0	2.0	2.0	2.1	2.2	2.3	2.4	2.2	2.1	2.3	2.5	2.7	2.8	2.7	2.7	2.9	2.9	2.9	2.4	2.9
24-Feb	2.8	2.6	2.7	2.7	2.7	Z	2.9	2.9	2.9	2.7	2.6	2.5	2.4	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.9
25-Feb	Z	2.1	2.1	2.1	2.3	2.3	2.3	2.6	2.6	2.5	3.0	2.4	2.2	2.1	2.1	2.1	2.1	2.6	2.6	2.4	2.2	2.2	2.2	2.2	2.3	3.0
26-Feb	2.2	Z	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
27-Feb	2.1	2.1	Z	2.1	2.1	2.2	2.3	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.1	2.1	2.3	2.3	2.2	2.2	2.3
28-Feb	2.2	2.2	2.3	Z	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.3	2.3	2.2	2.3
	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.2	2.2	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.3	2.3	Diurnal Average	
	2.8	2.8	2.7	3.0	2.7	2.6	2.9	2.9	2.9	3.0	3.3	3.2	3.1	2.8	2.8	2.7	3.2	3.9	3.8	3.4	3.0	2.9	2.9	2.9	Diurnal Maximum	

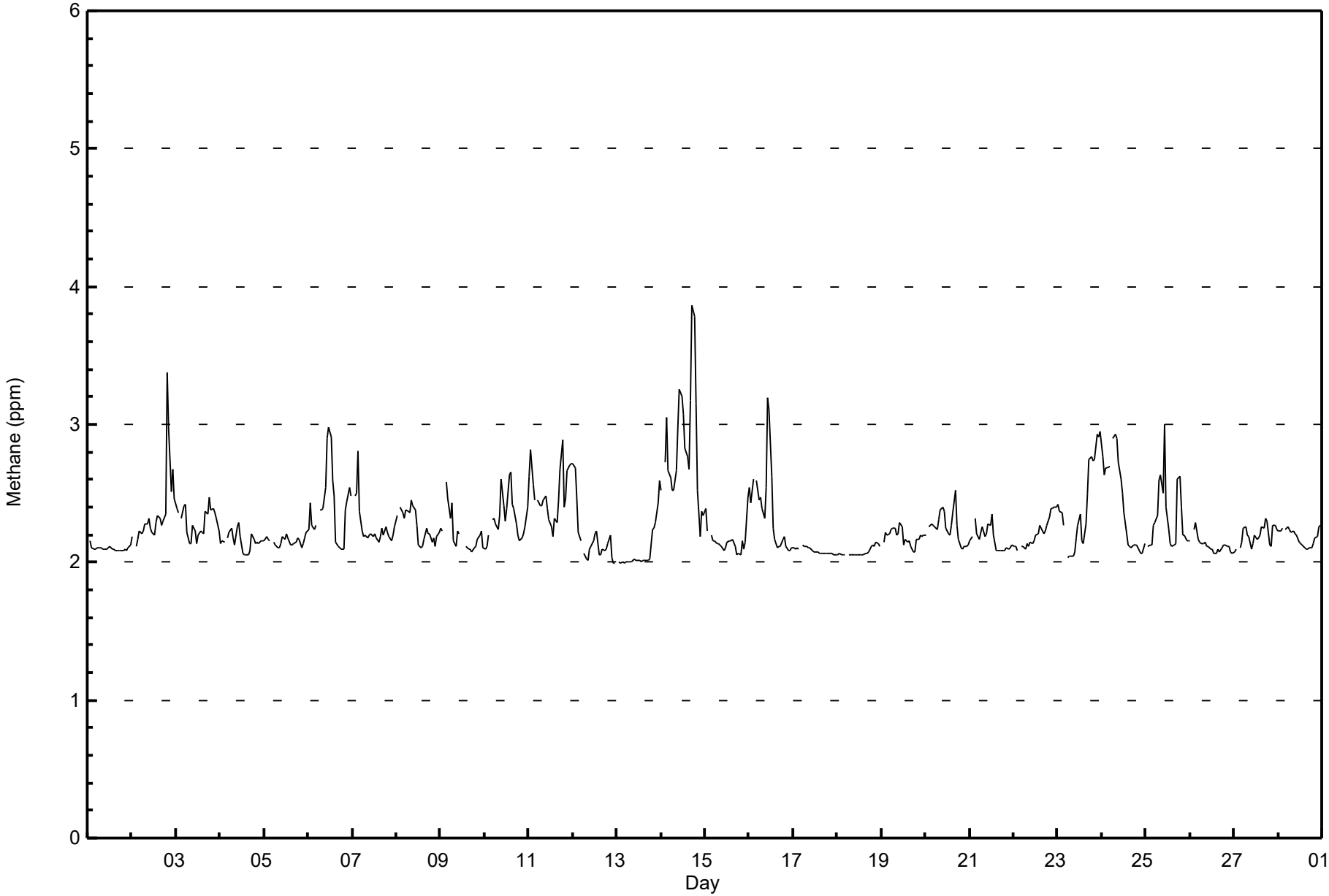
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Barge Landing - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	29	4.52	4.52
2.1 - 3.0	602	93.92	98.44
3.1 - 10.0	10	1.56	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Barge Landing - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	0	0	0	0	1	0	3	2	0	4	11	7	1	0	0	0	29
2.1 - 3.0	121	115	42	17	11	4	31	97	45	20	15	11	2	7	16	48	602
3.1 - 10.0	4	2	0	0	1	0	0	0	0	0	0	0	0	0	0	3	10
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	125	117	42	17	13	4	34	99	45	24	26	18	3	7	16	51	641

Total Number of Valid Hours: 641

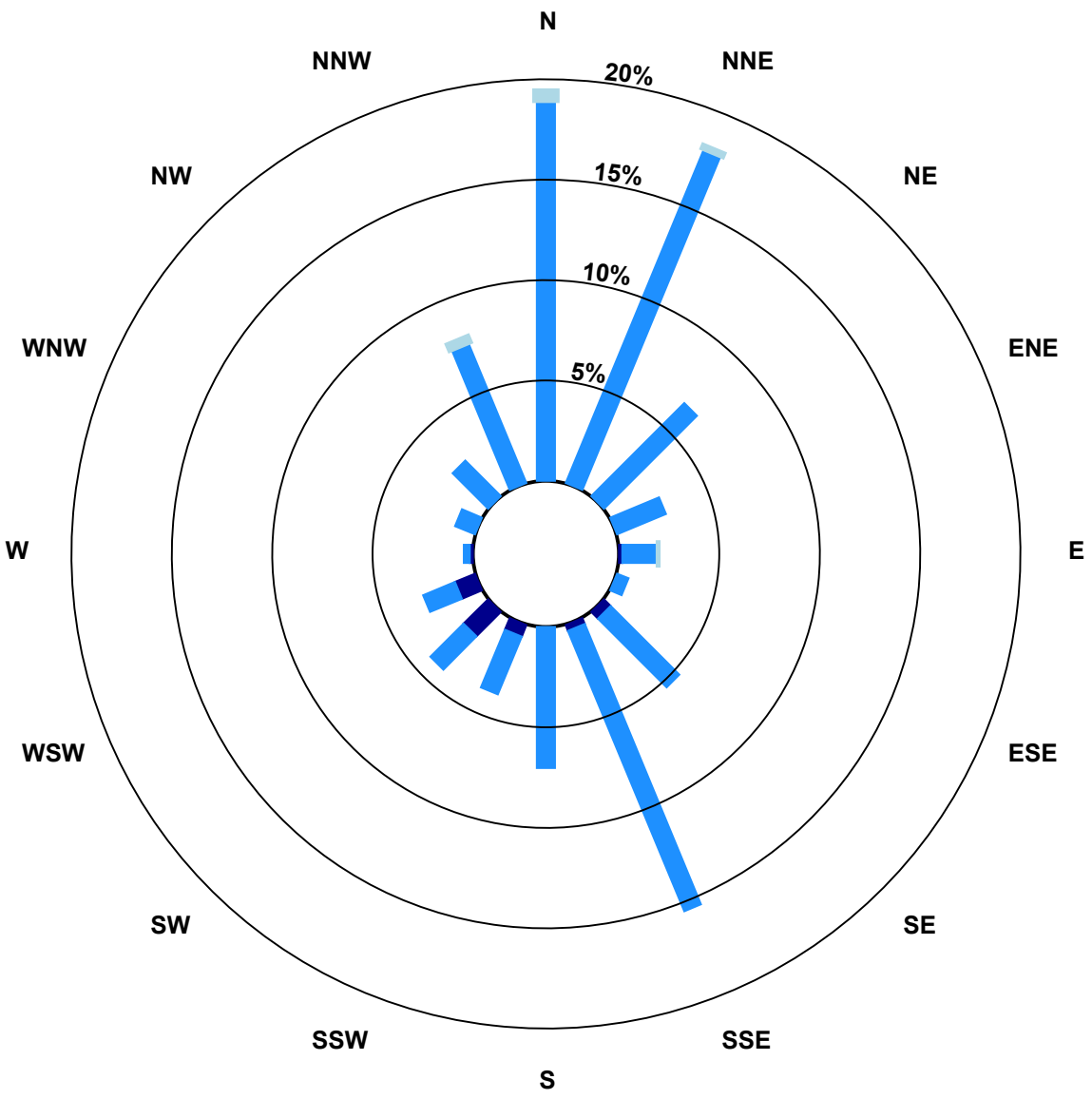
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Barge Landing



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

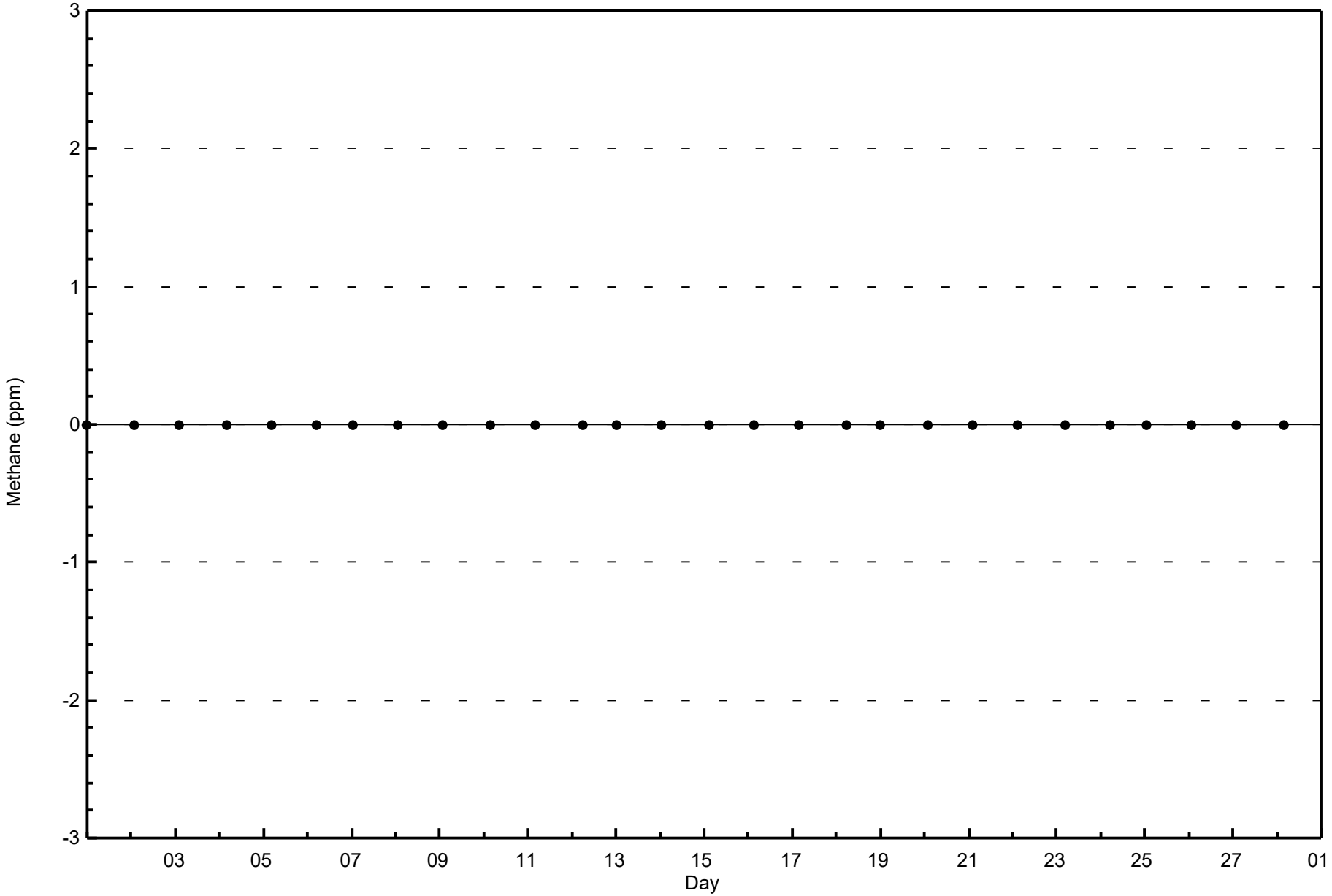
Total Number of Valid Hours: 641

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Barge Landing - February 2026

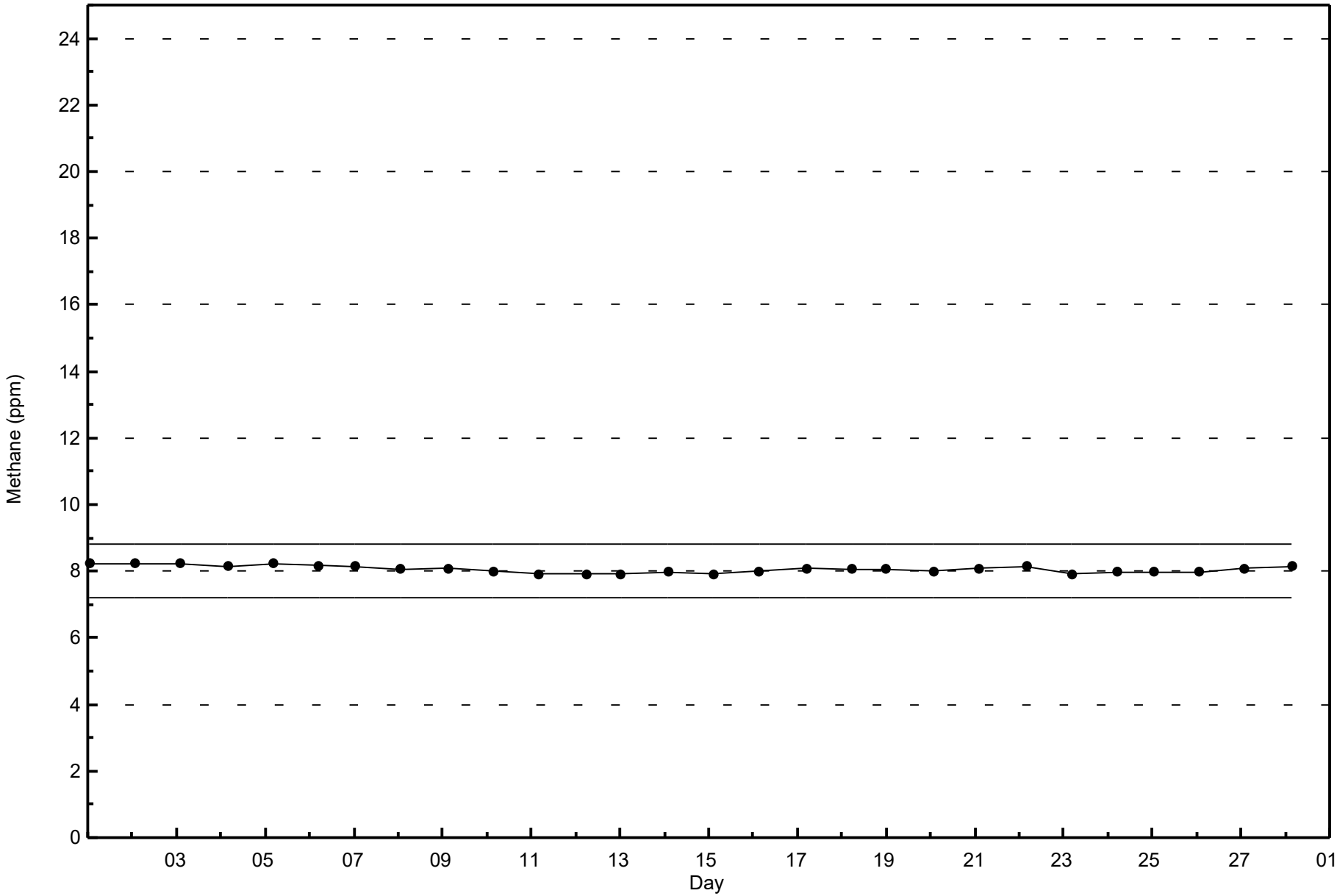


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Barge Landing - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Barge Landing - February 2026

Maximum Value: 163.0 ppb on Feb 24 09:00

Maximum Daily Average: 47.5 ppb on Feb 24

Minimum Value: 0.0 ppb on Feb 12 23:00

Minimum Daily Average: 0.5 ppb on Feb 1

Maximum Diurnal Average: 16.6 ppb at hour 1

Minimum Diurnal Average: 6.5 ppb at hour 16

Monthly Average: 12.01 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.3 Q_1 = 0.6 Median = 3.2 Q_3 = 13.5 P_{90} = 34.3 P_{99} = 104.2

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	0.2	0.0	0.0	Z	0.3	0.4	0.8	0.9	0.5	1.0	1.0	1.2	2.0	1.5	0.5	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.5	2.0
2-Feb	0.4	0.4	0.3	0.5	0.7	Z	0.6	0.8	1.3	4.5	4.7	2.9	2.6	2.0	1.3	0.9	0.5	1.0	1.4	8.1	49.7	15.4	9.5	5.1	5.0	49.7
3-Feb	Z	0.6	0.4	0.3	0.2	0.4	0.4	0.8	1.4	2.5	3.5	2.1	3.7	4.0	3.1	2.3	7.1	4.2	22.4	8.3	17.7	9.8	4.5	0.6	4.4	22.4
4-Feb	0.2	Z	0.3	0.1	0.1	0.1	5.7	7.1	1.3	15.9	8.2	2.8	1.1	0.1	0.1	0.2	0.4	0.6	0.2	0.2	0.1	0.2	0.2	0.3	2.0	15.9
5-Feb	0.2	0.1	Z	0.1	0.1	0.2	2.1	0.3	0.2	0.8	1.9	3.5	2.9	2.6	1.7	1.2	0.7	0.4	0.4	0.6	0.2	0.3	0.4	1.3	1.0	3.5
6-Feb	1.4	1.3	0.5	Z	0.7	1.7	8.1	8.7	13.3	31.9	66.2	71.3	60.7	31.5	20.1	1.2	0.5	0.2	0.3	0.5	0.7	2.1	7.0	11.0	14.8	71.3
7-Feb	9.1	2.5	3.1	18.5	Z	0.6	1.1	0.5	0.4	1.4	1.7	1.6	2.2	2.4	1.3	1.3	1.0	0.6	0.4	0.3	0.2	0.2	0.4	1.1	2.3	18.5
8-Feb	1.7	4.0	3.1	2.1	0.6	Z	0.6	0.9	5.0	6.7	7.8	5.8	2.3	2.6	4.8	2.7	6.8	1.9	0.5	0.5	0.2	0.4	0.7	0.3	2.7	7.8
9-Feb	Z	4.1	7.7	10.6	4.6	1.8	9.6	1.1	1.4	2.4	2.2	4.0	6.7	3.4	3.0	2.0	1.6	0.4	0.4	0.4	0.3	0.2	0.3	0.2	3.0	10.6
10-Feb	0.3	Z	0.4	0.4	0.6	0.7	0.8	0.5	5.2	18.2	17.5	14.2	22.4	26.1	17.3	13.5	12.5	7.0	34.4	27.5	35.8	27.8	33.0	33.5	15.2	35.8
11-Feb	44.4	36.8	Z	7.2	21.5	16.1	37.7	20.6	26.9	22.2	16.0	15.8	12.9	8.6	5.3	3.9	7.4	1.2	34.4	25.1	8.1	10.3	29.9	23.5	18.9	44.4
12-Feb	29.0	33.0	8.3	Z	3.9	0.7	14.4	4.6	0.2	2.3	C	C	C	C	C	C	0.4	1.5	0.7	0.7	0.0	0.0	0.0	0.0	--	33.0
13-Feb	0.0	0.0	0.0	0.1	Z	0.0	0.0	0.1	0.1	0.7	0.5	0.2	0.3	1.0	0.3	0.1	0.0	0.1	6.5	5.6	0.5	8.5	21.2	39.5	3.7	39.5
14-Feb	35.5	13.4	26.1	24.3	24.3	Z	13.2	39.4	23.2	40.8	67.4	80.2	66.6	47.0	39.5	27.5	73.4	144.5	149.1	87.0	23.9	0.9	6.8	14.7	46.5	149.1
15-Feb	Z	0.5	0.2	0.2	0.2	0.3	0.2	0.2	0.9	1.5	1.8	2.2	4.2	5.3	7.2	4.0	1.7	0.8	0.6	0.5	0.7	0.8	0.4	0.5	1.5	7.2
16-Feb	4.6	Z	9.0	9.7	25.6	25.1	16.2	8.2	13.1	27.5	61.4	79.8	51.2	27.5	14.8	4.7	5.7	2.8	3.1	2.5	2.0	0.4	0.5	1.1	17.2	79.8
17-Feb	1.9	0.8	Z	0.8	1.5	1.4	2.4	3.7	2.6	2.4	3.6	5.4	2.6	1.5	2.5	2.1	1.3	1.5	0.4	0.4	0.4	0.5	0.7	1.3	1.8	5.4
18-Feb	2.3	2.7	2.8	Z	2.4	1.7	2.4	4.0	2.9	2.6	3.3	3.1	3.4	3.9	4.5	6.5	6.4	3.3	3.8	3.4	4.5	70.0	38.0	41.7	9.5	70.0
19-Feb	57.3	50.4	43.5	54.4	Z	51.8	40.3	29.5	28.3	22.8	14.5	11.4	10.1	10.1	6.5	5.3	3.7	5.0	6.6	5.8	10.5	16.1	9.9	15.2	22.1	57.3
20-Feb	5.9	3.7	3.4	6.5	10.6	Z	22.3	35.2	20.9	20.1	17.1	14.8	16.5	19.0	16.7	32.6	34.2	8.2	2.1	0.7	0.4	0.6	1.1	1.6	12.8	35.2
21-Feb	Z	1.4	0.7	0.8	3.5	9.7	19.7	23.1	17.9	32.0	25.7	19.0	11.0	6.3	4.9	2.8	2.7	1.8	0.5	0.7	0.9	0.5	0.8	2.7	8.2	32.0
22-Feb	1.3	Z	0.6	1.9	3.2	7.3	5.8	9.0	9.2	19.7	22.0	20.5	24.0	25.3	25.9	22.0	14.6	9.1	9.1	16.7	24.1	19.9	17.8	14.4	14.1	25.9
23-Feb	13.8	10.5	Z	4.8	0.4	0.4	0.6	1.9	4.2	5.6	3.8	6.0	7.3	3.2	3.4	9.6	34.9	48.0	62.9	100.2	78.1	54.1	71.2	100.9	27.2	100.9
24-Feb	88.6	81.5	84.3	Z	92.7	113.9	136.3	127.8	163.0	53.7	30.1	21.7	10.9	5.8	4.6	4.3	3.5	7.3	4.6	43.2	12.0	1.4	0.5	0.4	47.5	163.0
25-Feb	0.5	0.3	0.3	0.2	Z	1.0	1.2	40.7	49.5	13.8	20.6	11.6	9.3	7.8	9.3	6.3	4.2	50.2	21.6	2.3	0.6	0.5	0.3	0.3	11.0	50.2
26-Feb	0.3	0.3	0.3	0.4	0.4	Z	0.9	2.0	4.4	1.8	4.4	4.1	3.3	3.1	2.0	2.1	1.5	0.7	0.2	0.3	0.3	0.3	0.3	0.2	1.5	4.4
27-Feb	Z	0.3	0.2	0.3	0.4	0.5	0.8	2.6	2.8	4.0	4.2	6.9	8.9	10.2	14.5	13.5	10.5	5.4	4.3	13.6	4.9	4.3	5.5	11.6	5.7	14.5
28-Feb	81.9	Z	71.3	64.6	75.9	106.1	68.8	38.3	27.4	17.1	18.6	13.9	17.7	16.4	7.0	3.3	2.5	2.1	3.3	3.2	9.9	9.5	5.6	1.9	29.0	106.1
	16.6	10.8	11.1	8.7	11.9	14.9	14.7	14.7	15.3	13.4	15.9	15.8	13.6	10.3	8.3	6.5	8.6	11.1	13.4	12.8	10.2	9.1	9.5	11.6	Diurnal Average	
	88.6	81.5	84.3	64.6	92.7	113.9	136.3	127.8	163.0	53.7	67.4	80.2	66.6	47.0	39.5	32.6	73.4	144.5	149.1	100.2	78.1	70.0	71.2	100.9	Diurnal Maximum	

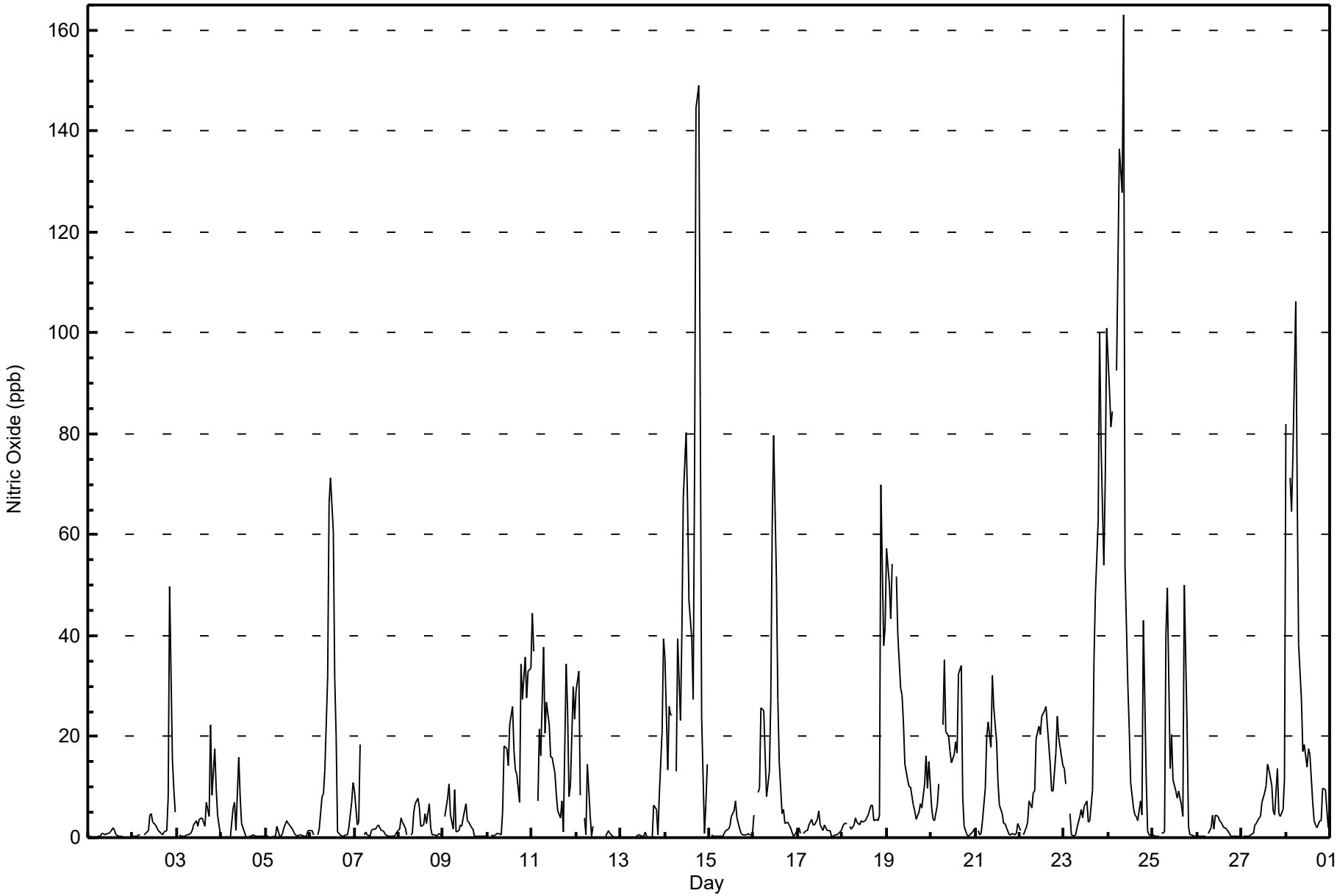
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Barge Landing - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	524	82.13	82.13
21 - 40	64	10.03	92.16
11 - 80	35	5.49	97.65
81 - 159	13	2.04	99.69
> 159	1	0.16	99.84

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Barge Landing - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	111	116	40	13	11	4	29	64	29	17	22	16	2	4	12	34	524
21 - 40	7	3	1	1	0	1	2	17	8	6	3	1	2	1	4	7	64
11 - 80	3	2	1	3	1	0	1	6	6	2	1	0	0	1	2	6	35
81 - 159	2	0	0	0	1	0	2	3	2	0	0	0	0	1	0	2	13
> 159	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Totals	123	121	42	17	13	5	34	91	45	25	26	17	4	7	18	49	637

Total Number of Valid Hours: 638

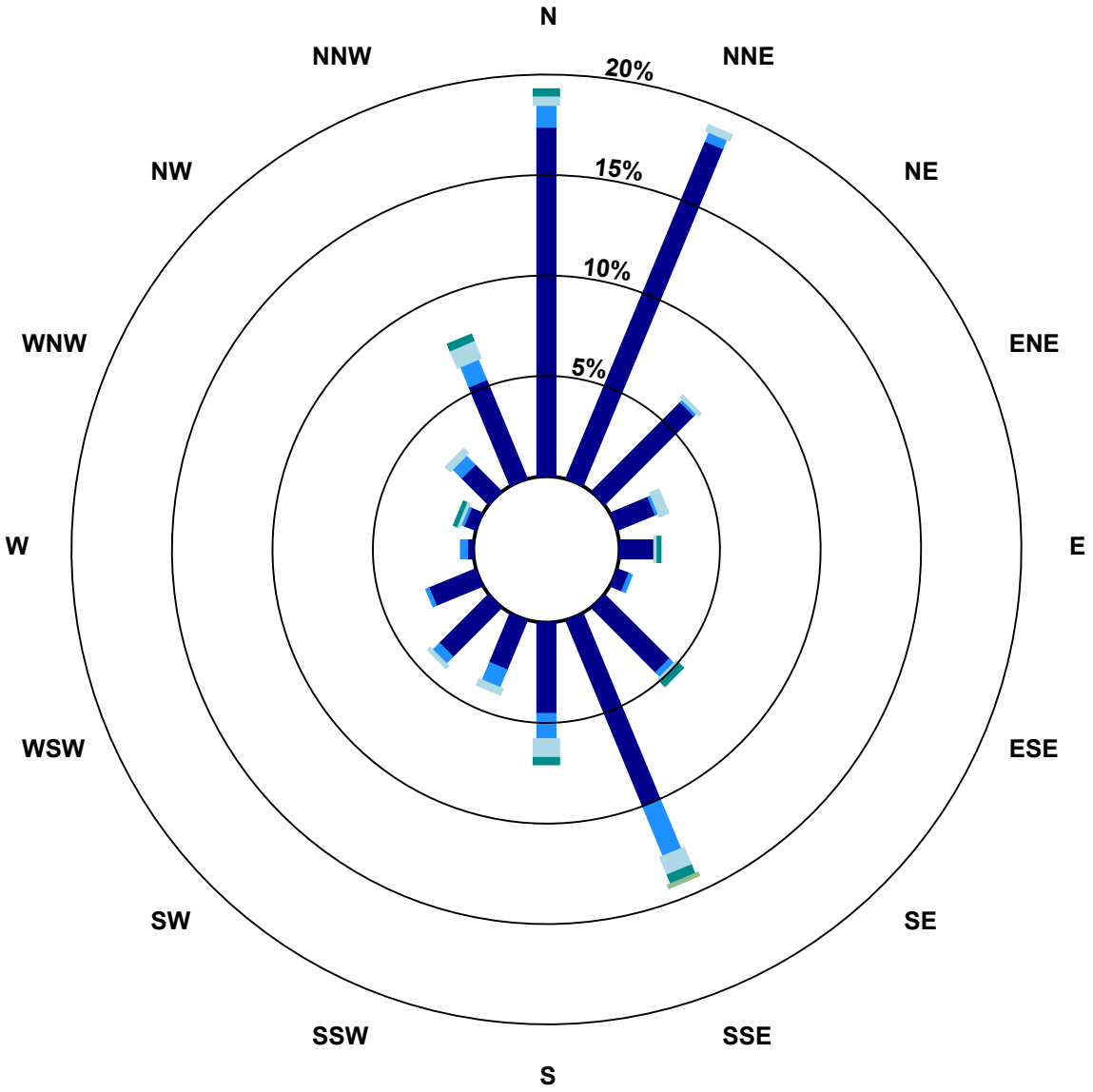
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Barge Landing



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

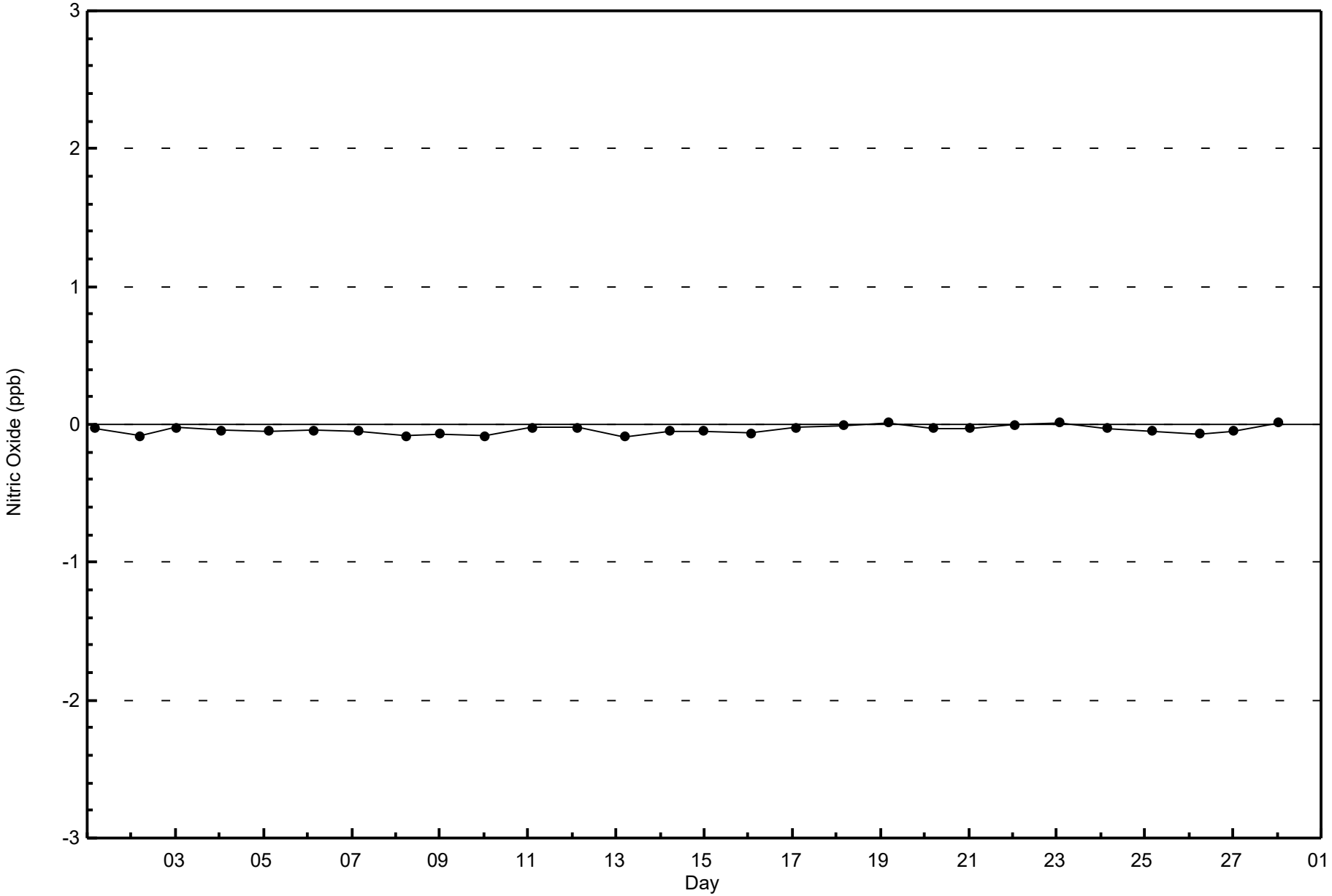
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Barge Landing - February 2026

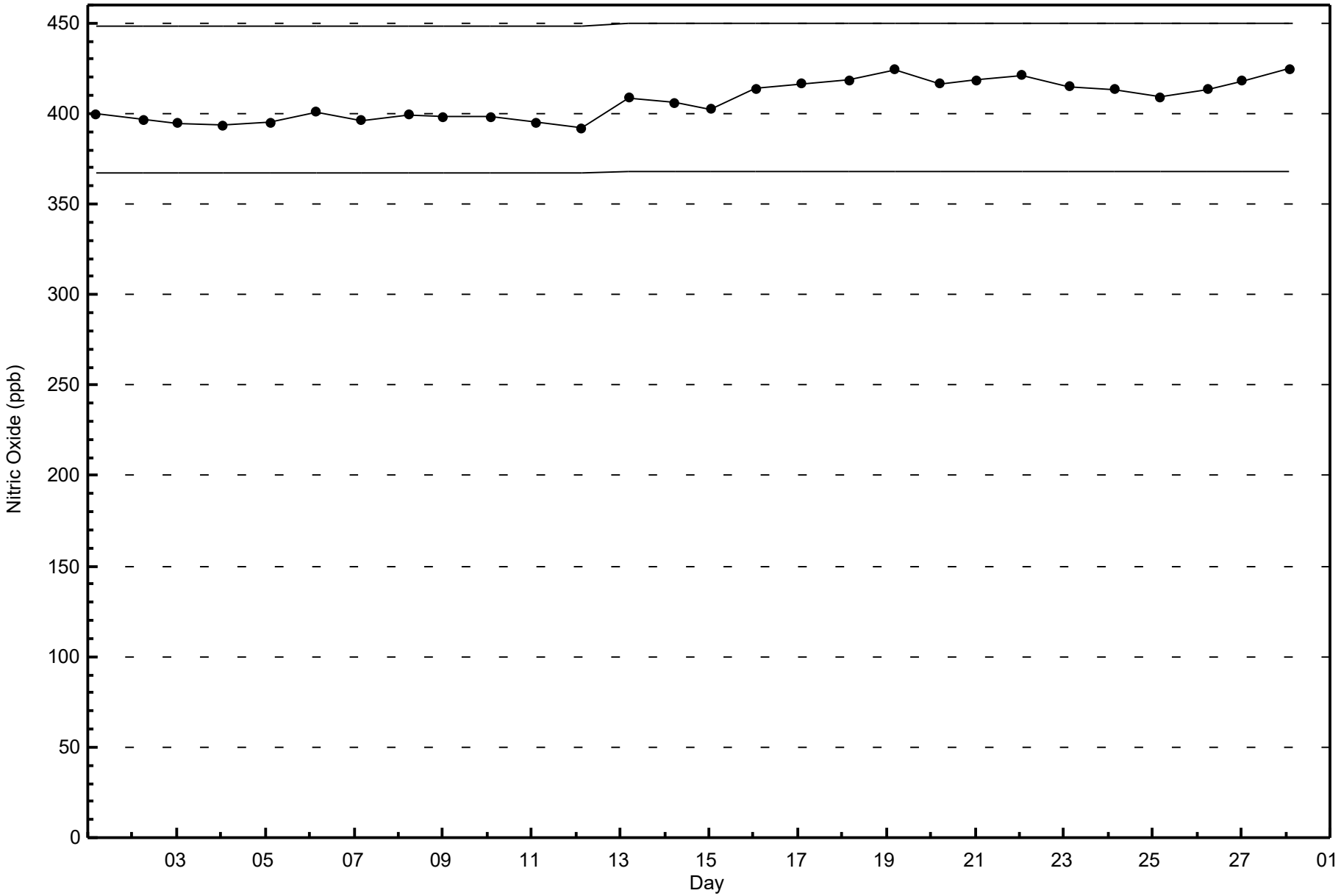


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Barge Landing - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Barge Landing - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 53.9 ppb on Feb 14 18:00 Maximum Daily Average: 35.8 ppb on Feb 14

Minimum Value: 0.4 ppb on Feb 13 07:00 Minimum Daily Average: 4.0 ppb on Feb 18
Maximum Diurnal Average: 19.0 ppb at hour 1 Minimum Diurnal Average: 9.8 ppb at hour 16
Monthly Average: 15.45 ppb Percentiles: P_1 = 1.0 P_{10} = 3.8 Q_1 = 6.8 Median = 12.5 Q_3 = 23.3 P_{90} = 31.3 P_{99} = 44.3

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	9.2	8.0	2.1	1.4	Z	5.9	5.8	9.6	10.3	4.4	5.1	4.3	4.4	6.5	5.3	3.6	4.7	2.9	2.9	2.5	2.4	2.2	3.0	4.6	4.8	10.3
2-Feb	15.8	18.0	14.9	18.8	21.2	Z	18.2	17.2	17.9	19.1	14.3	9.5	8.7	7.1	5.1	5.9	6.7	16.4	18.4	19.9	26.4	27.3	26.5	23.9	16.4	27.3
3-Feb	Z	17.2	12.5	10.8	11.2	13.2	9.6	8.3	9.0	10.6	12.9	7.9	10.3	11.0	11.9	13.2	25.0	29.2	32.8	29.1	29.4	26.6	24.1	15.3	16.6	32.8
4-Feb	9.6	Z	11.9	5.7	4.4	4.8	10.6	11.7	5.0	16.5	11.5	5.5	2.0	1.0	1.0	1.6	3.3	10.6	6.8	9.1	6.0	7.7	7.3	11.9	7.2	16.5
5-Feb	7.4	5.5	Z	3.8	4.8	4.5	5.5	3.6	3.5	6.5	7.3	8.8	7.9	7.8	6.6	6.7	7.7	9.3	14.0	18.5	7.0	12.5	19.3	26.0	8.9	26.0
6-Feb	27.2	29.8	21.0	Z	28.3	32.0	33.8	33.2	31.3	31.7	36.2	36.9	34.9	28.3	27.9	8.1	5.8	5.8	11.8	10.1	18.5	20.8	23.3	22.3	24.3	36.9
7-Feb	23.0	22.1	22.2	23.5	Z	14.9	8.7	7.7	5.0	5.5	5.8	5.2	5.9	6.8	4.9	6.6	9.5	13.5	12.0	8.0	6.6	7.3	19.1	24.1	11.6	24.1
8-Feb	30.1	32.7	32.2	30.2	24.8	Z	26.9	23.6	26.2	22.6	20.2	14.4	6.8	6.4	8.2	10.2	16.3	18.1	11.4	11.6	9.4	16.2	22.4	12.0	18.8	32.7
9-Feb	Z	25.3	27.0	26.9	22.0	14.7	27.0	16.1	7.1	10.0	7.2	9.5	12.5	7.6	6.5	6.9	11.6	11.4	11.3	13.0	7.7	6.4	11.1	11.1	13.5	27.0
10-Feb	14.4	Z	22.3	19.7	28.7	29.1	26.5	21.6	26.4	29.0	22.3	20.1	23.0	23.8	20.5	19.1	22.8	24.9	26.6	23.4	24.9	25.0	27.9	27.3	23.9	29.1
11-Feb	27.3	25.2	Z	22.6	24.2	24.1	28.2	25.8	25.6	19.3	16.2	15.3	15.1	14.4	12.4	13.5	24.8	16.4	35.2	31.3	24.9	25.1	28.8	28.3	22.8	35.2
12-Feb	27.3	26.8	23.2	Z	16.7	8.3	22.5	9.4	2.3	8.8	C	C	C	C	C	C	8.5	13.4	11.6	12.4	5.6	3.9	2.5	3.8	--	27.3
13-Feb	4.0	2.5	1.7	4.2	Z	0.5	0.4	1.3	1.1	4.2	1.9	0.6	1.2	2.2	1.3	0.7	0.6	3.8	24.8	25.2	24.2	34.5	37.1	38.6	9.4	38.6
14-Feb	34.3	33.3	33.5	34.6	36.4	Z	35.3	39.2	30.1	29.3	30.3	37.4	38.7	35.8	34.2	31.5	45.0	53.9	51.3	41.5	32.3	22.9	31.2	31.4	35.8	53.9
15-Feb	Z	12.9	7.5	8.6	9.4	6.4	4.6	4.0	6.7	5.1	5.0	5.0	6.0	7.4	9.6	8.1	6.8	7.2	9.7	7.9	13.6	13.5	14.8	18.2	8.6	18.2
16-Feb	24.9	Z	26.7	25.7	28.7	26.6	26.8	22.4	17.5	17.8	24.7	31.7	25.8	15.6	10.8	6.2	10.0	8.8	13.4	12.7	11.5	6.2	7.8	10.8	18.0	31.7
17-Feb	13.2	8.2	Z	7.9	8.4	8.4	6.8	7.4	6.8	4.3	4.0	4.6	2.8	2.1	2.9	3.2	2.8	3.4	3.6	2.4	3.4	3.4	2.9	2.8	5.0	13.2
18-Feb	2.1	1.2	1.2	Z	1.0	1.0	1.0	1.2	1.4	1.2	1.0	1.1	1.2	1.3	1.7	2.4	3.2	4.0	5.9	6.5	7.0	17.9	12.4	14.9	4.0	17.9
19-Feb	17.4	16.3	14.4	16.9	Z	16.5	12.0	10.1	9.2	7.4	5.4	4.9	5.0	5.8	5.9	7.5	10.5	18.0	19.9	19.3	28.0	32.1	29.9	33.3	15.0	33.3
20-Feb	26.6	26.2	27.9	31.5	31.9	Z	34.6	34.9	25.7	22.7	15.8	14.6	14.9	17.5	19.5	31.7	36.9	24.0	25.9	15.6	12.0	17.0	20.1	21.0	23.8	36.9
21-Feb	Z	20.1	13.2	14.3	21.0	22.2	23.3	24.6	21.7	21.2	17.8	15.3	11.5	8.8	7.0	4.7	5.4	9.6	10.6	10.1	7.9	5.1	6.8	8.8	13.5	24.6
22-Feb	6.4	Z	3.8	7.3	7.3	8.9	7.7	7.9	6.2	7.8	8.2	8.2	9.5	10.5	12.2	12.9	13.2	15.8	18.3	19.7	21.3	21.6	21.4	22.2	12.1	22.2
23-Feb	22.2	22.1	Z	19.1	14.1	8.0	8.9	15.1	14.7	11.5	6.2	7.3	7.6	5.8	8.1	16.6	30.3	36.8	40.4	43.2	40.4	39.2	39.7	42.9	21.7	43.2
24-Feb	41.2	41.4	39.6	Z	39.2	46.7	49.1	47.1	48.2	27.3	18.5	14.0	9.3	6.6	6.6	8.2	10.7	20.0	23.3	34.7	23.0	12.0	8.1	16.2	25.7	49.1
25-Feb	17.6	13.3	12.4	9.6	Z	19.4	22.0	30.0	31.4	18.0	20.2	13.4	11.8	14.9	16.6	16.3	18.4	37.4	37.8	25.3	16.5	12.5	9.1	8.4	18.8	37.8
26-Feb	7.8	7.4	6.7	7.0	7.5	Z	18.5	18.2	12.8	6.7	11.8	10.1	7.1	4.6	3.5	4.9	5.0	6.7	4.6	6.1	7.4	6.1	6.9	5.2	7.9	18.5
27-Feb	Z	7.9	4.5	4.7	5.3	6.4	9.8	11.5	6.8	4.6	3.0	3.8	4.7	5.5	7.4	7.6	8.2	10.8	13.9	20.9	16.6	20.1	20.1	19.7	9.7	20.9
28-Feb	28.6	Z	27.8	28.0	30.0	37.7	32.1	27.4	20.8	14.6	12.9	10.7	13.0	13.6	8.5	6.4	8.1	14.2	21.7	26.0	32.4	31.2	28.5	24.5	21.7	37.7
	19.0	18.4	17.1	16.0	18.5	15.7	18.4	17.5	15.4	13.8	12.8	11.9	11.2	10.3	9.9	9.8	12.9	15.9	18.6	18.1	16.7	17.0	18.3	18.9	Diurnal Average	
	41.2	41.4	39.6	34.6	39.2	46.7	49.1	47.1	48.2	31.7	36.2	37.4	38.7	35.8	34.2	31.7	45.0	53.9	51.3	43.2	40.4	39.2	39.7	42.9	Diurnal Maximum	

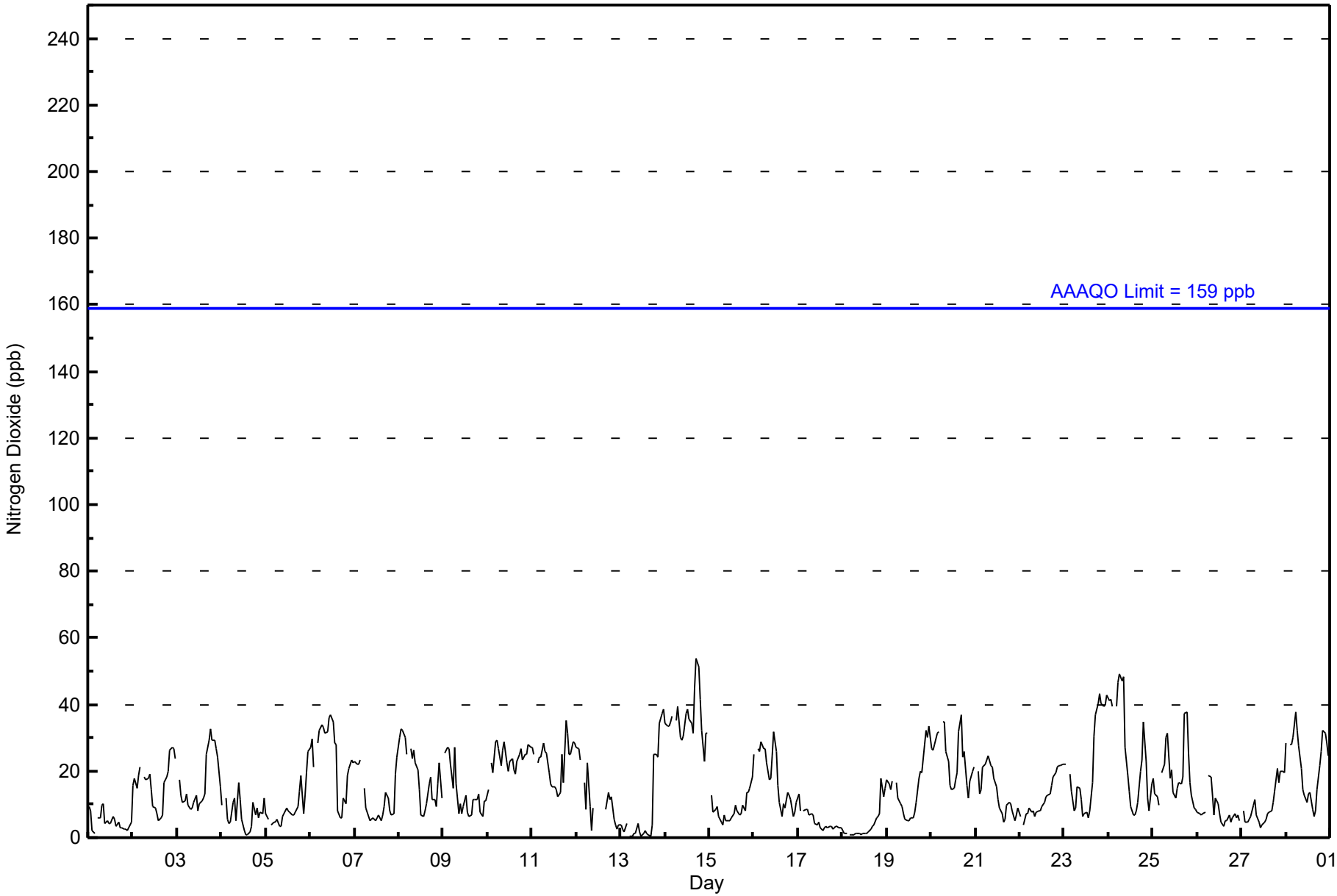
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Barge Landing - February 2026



Nitrogen Dioxide (NO_2) - ppb
Barge Landing - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	441	69.12	69.12
21 - 40	185	29.00	98.12
11 - 80	12	1.88	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Barge Landing - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	105	110	31	9	6	2	24	57	25	17	20	13	2	1	5	14	441
21 - 40	15	11	11	8	6	3	10	30	19	8	6	4	2	6	13	33	185
11 - 80	3	0	0	0	1	0	0	5	1	0	0	0	0	0	0	2	12
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	123	121	42	17	13	5	34	92	45	25	26	17	4	7	18	49	638

Total Number of Valid Hours: 638

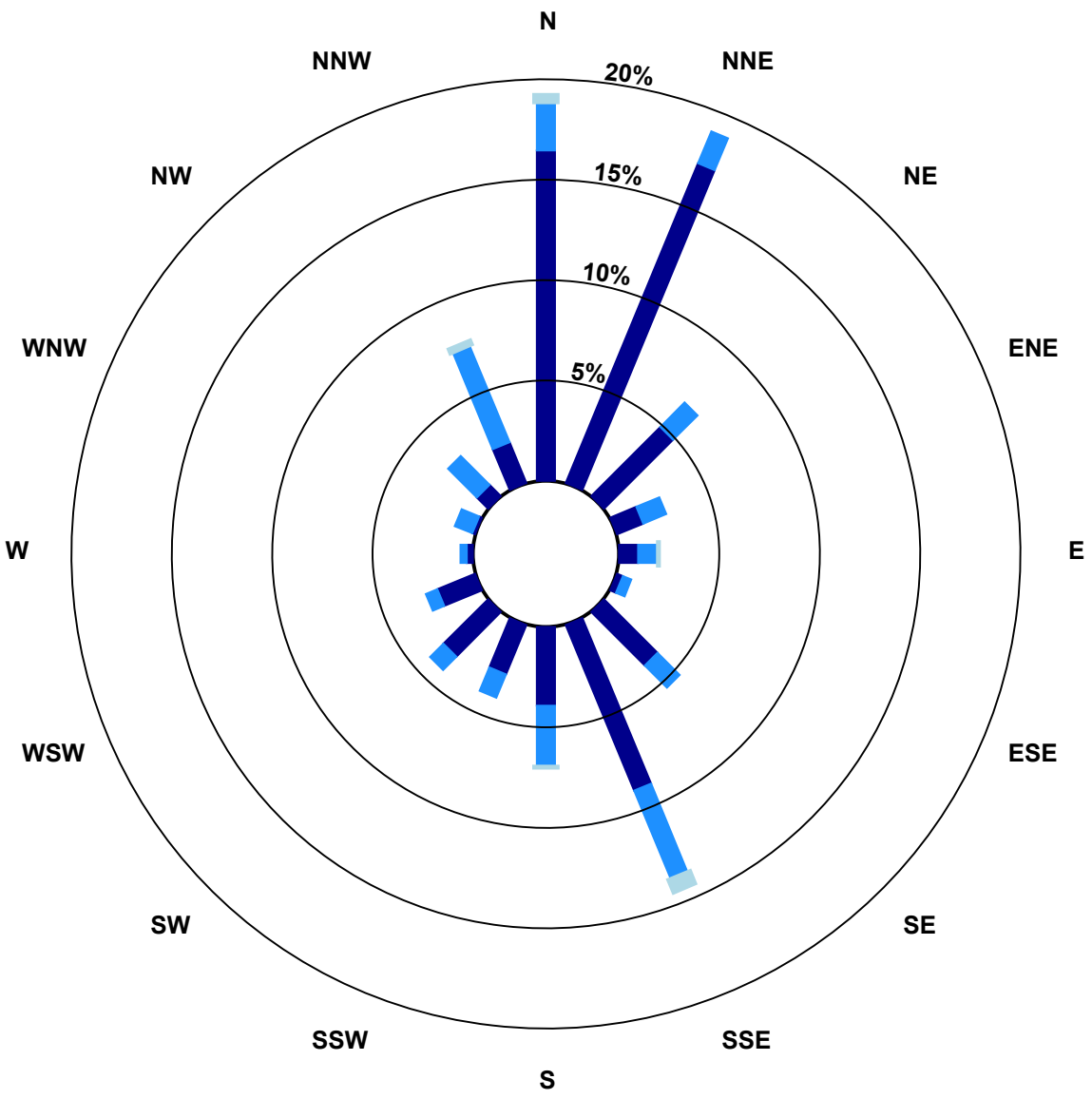
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Barge Landing



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

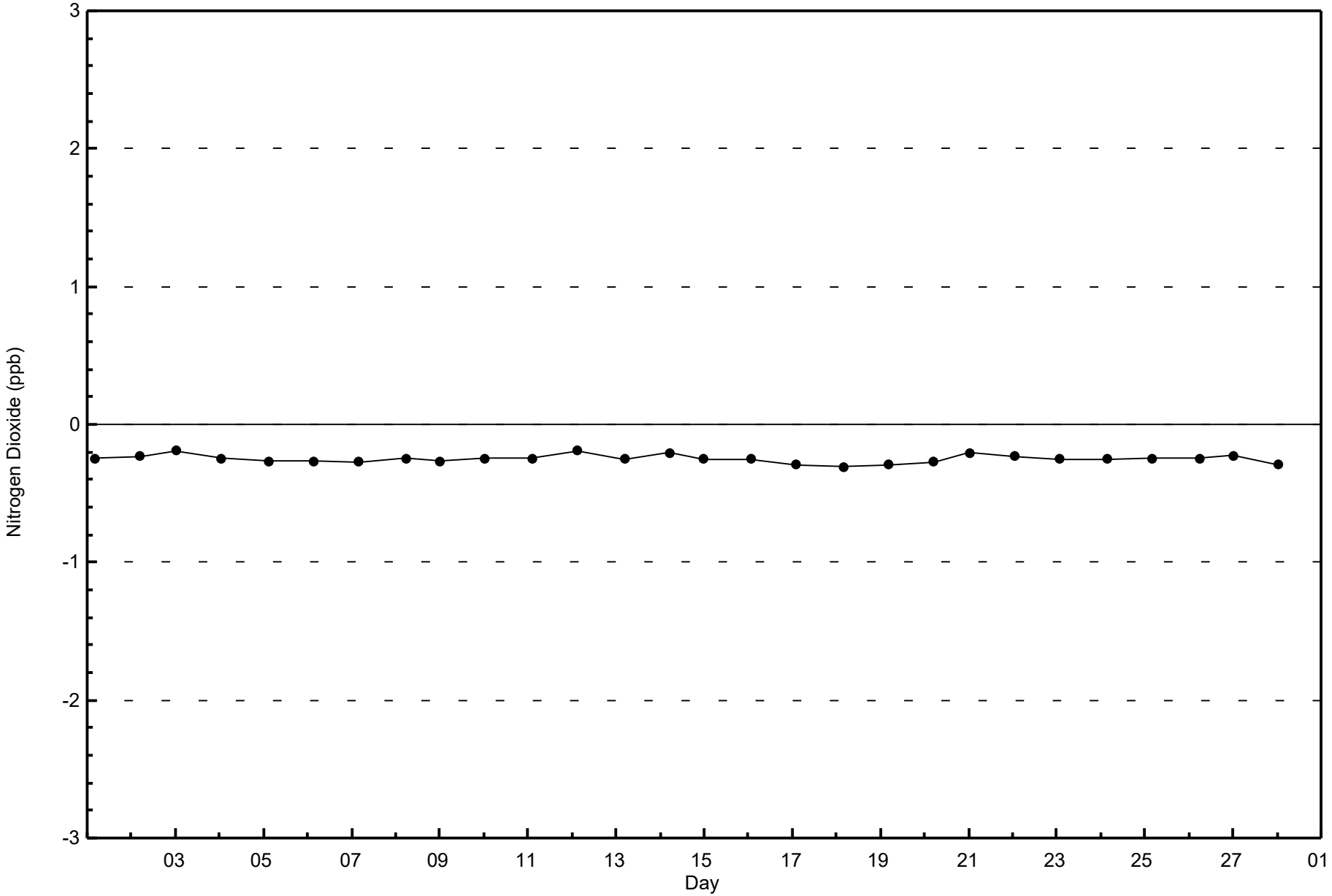
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Barge Landing - February 2026

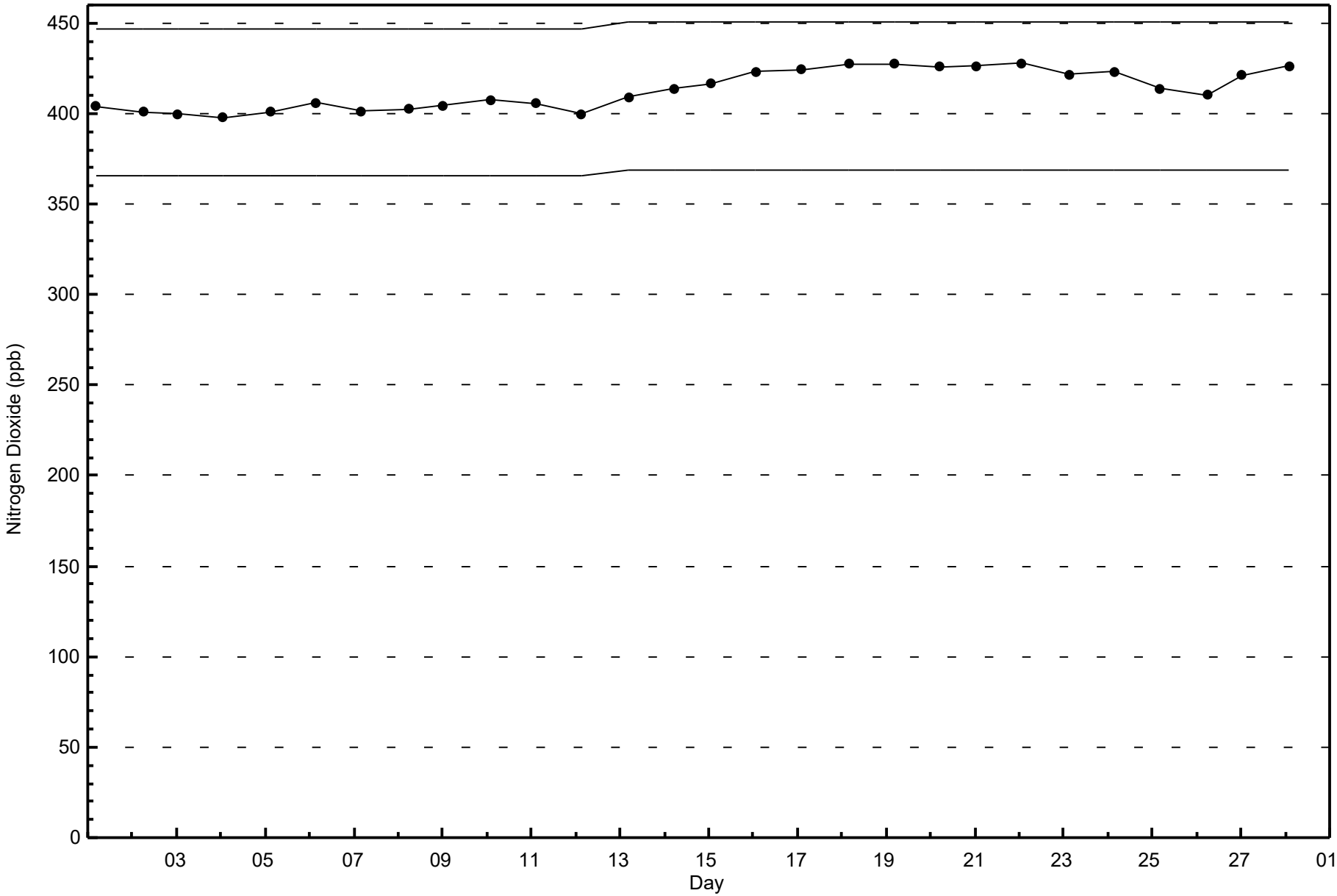


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Barge Landing - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Barge Landing - February 2026

Maximum Value: 211.2 ppb on Feb 24 09:00

Maximum Daily Average: 82.3 ppb on Feb 14

Minimum Value: 0.4 ppb on Feb 13 07:00

Minimum Daily Average: 5.3 ppb on Feb 1

Maximum Diurnal Average: 35.6 ppb at hour 1

Minimum Diurnal Average: 16.3 ppb at hour 16

Monthly Average: 27.47 ppb

Percentiles: P_1 = 1.2 P_{10} = 4.9 Q_1 = 8.5 Median = 16.5 Q_3 = 34.6 P_{90} = 60.7 P_{99} = 143.8

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	9.4	8.2	2.1	1.4	Z	6.2	6.2	10.4	11.2	4.9	6.1	5.3	5.6	8.5	6.8	4.1	5.1	3.1	3.1	2.6	2.5	2.3	3.1	4.7	5.3	11.2
2-Feb	16.2	18.4	15.2	19.3	21.9	Z	18.8	18.0	19.2	23.6	19.0	12.4	11.3	9.1	6.4	6.8	7.2	17.4	19.8	28.0	76.1	42.7	36.0	29.0	21.4	76.1
3-Feb	Z	17.8	12.9	11.1	11.4	13.6	10.0	9.1	10.4	13.1	16.4	10.0	14.0	15.0	15.0	15.5	32.1	33.4	55.2	37.4	47.1	36.4	28.6	15.9	20.9	55.2
4-Feb	9.8	Z	12.2	5.8	4.5	4.9	16.3	18.8	6.3	32.4	19.7	8.3	3.1	1.1	1.1	1.8	3.7	11.2	7.0	9.3	6.1	7.9	7.5	12.2	9.2	32.4
5-Feb	7.6	5.6	Z	3.9	4.9	4.7	7.6	3.9	3.7	7.3	9.2	12.3	10.8	10.4	8.3	7.9	8.4	9.7	14.4	19.1	7.2	12.8	19.7	27.3	9.9	27.3
6-Feb	28.6	31.1	21.5	Z	29.0	33.7	41.9	41.9	44.6	63.6	102.4	108.2	95.6	59.8	48.0	9.3	6.3	6.0	12.1	10.6	19.2	22.9	30.3	33.3	39.1	108.2
7-Feb	32.1	24.6	25.3	42.0	Z	15.5	9.8	8.2	5.4	6.9	7.5	6.8	8.1	9.2	6.2	7.9	10.5	14.1	12.4	8.3	6.8	7.5	19.5	25.2	13.9	42.0
8-Feb	31.8	36.7	35.3	32.3	25.4	Z	27.5	24.5	31.2	29.3	28.0	20.2	9.1	9.0	13.0	12.9	23.1	20.0	11.9	12.1	9.6	16.6	23.1	12.3	21.5	36.7
9-Feb	Z	29.4	34.7	37.5	26.6	16.5	36.6	17.2	8.5	12.4	9.4	13.5	19.2	11.0	9.5	8.9	13.2	11.8	11.7	13.4	8.0	6.6	11.4	11.3	16.4	37.5
10-Feb	14.7	Z	22.7	20.1	29.3	29.8	27.3	22.1	31.6	47.2	39.8	34.3	45.4	49.9	37.8	32.6	35.3	31.9	61.0	50.9	60.7	52.8	60.9	60.8	39.1	61.0
11-Feb	71.7	62.0	Z	29.8	45.7	40.2	65.9	46.4	52.5	41.5	32.2	31.1	28.0	23.0	17.7	17.4	32.2	17.6	69.6	56.4	33.0	35.4	58.7	51.8	41.7	71.7
12-Feb	56.3	59.8	31.5	Z	20.6	9.0	36.9	14.0	2.5	11.1	C	C	C	C	C	C	8.9	14.9	12.3	13.1	5.6	3.9	2.5	3.8	--	59.8
13-Feb	4.0	2.5	1.7	4.3	Z	0.5	0.4	1.4	1.2	4.9	2.4	0.8	1.5	3.2	1.6	0.8	0.6	3.9	31.3	30.8	24.7	43.0	58.3	78.1	13.1	78.1
14-Feb	69.8	46.7	59.6	58.9	60.7	Z	48.5	78.6	53.3	70.1	97.7	117.6	105.3	82.8	73.7	59.0	118.4	198.4	200.4	128.5	56.2	23.8	38.0	46.1	82.3	200.4
15-Feb	Z	13.4	7.7	8.8	9.6	6.7	4.8	4.2	7.6	6.6	6.8	7.2	10.2	12.7	16.8	12.1	8.5	8.0	10.3	8.4	14.3	14.3	15.2	18.7	10.1	18.7
16-Feb	29.5	Z	35.7	35.4	54.3	51.7	43.0	30.6	30.6	45.3	86.1	111.5	77.0	43.1	25.6	10.9	15.7	11.6	16.5	15.2	13.5	6.6	8.3	11.9	35.2	111.5
17-Feb	15.1	9.0	Z	8.7	9.9	9.8	9.2	11.1	9.4	6.7	7.6	10.0	5.4	3.6	5.4	5.3	4.1	4.9	4.0	2.8	3.8	3.9	3.6	4.1	6.8	15.1
18-Feb	4.4	3.9	4.0	Z	3.4	2.7	3.4	5.2	4.3	3.8	4.3	4.2	4.6	5.2	6.2	8.9	9.6	7.3	9.7	9.9	11.5	87.9	50.4	56.6	13.5	87.9
19-Feb	74.7	66.7	57.9	71.3	Z	68.3	52.3	39.6	37.5	30.2	19.9	16.3	15.1	15.9	12.4	12.8	14.2	23.0	26.5	25.1	38.5	48.2	39.8	48.5	37.2	74.7
20-Feb	32.5	29.9	31.3	38.0	42.5	Z	56.9	70.1	46.6	42.8	32.9	29.4	31.4	36.5	36.2	64.3	71.1	32.2	28.0	16.3	12.4	17.6	21.2	22.6	36.6	71.1
21-Feb	Z	21.5	13.9	15.1	24.5	31.9	43.0	47.7	39.6	53.2	43.5	34.3	22.5	15.1	11.9	7.5	8.1	11.4	11.1	10.8	8.8	5.6	7.6	11.5	21.7	53.2
22-Feb	7.7	Z	4.4	9.2	10.5	16.2	13.5	16.9	15.4	27.5	30.2	28.7	33.5	35.8	38.1	34.9	27.8	24.9	27.4	36.4	45.4	41.5	39.2	36.6	26.2	45.4
23-Feb	36.0	32.6	Z	23.9	14.5	8.4	9.5	17.0	18.9	17.1	10.0	13.3	14.9	9.0	11.5	26.2	65.2	84.8	103.3	143.4	118.5	93.3	110.9	143.8	49.0	143.8
24-Feb	129.8	122.9	123.9	Z	131.9	160.6	185.4	174.9	211.2	81.0	48.6	35.7	20.2	12.4	11.2	12.5	14.2	27.3	27.9	77.9	35.0	13.4	8.6	16.6	73.2	211.2
25-Feb	18.1	13.6	12.7	9.8	Z	20.4	23.2	70.7	80.9	31.8	40.8	25.0	21.1	22.7	25.9	22.6	22.6	87.6	59.4	27.6	17.1	13.0	9.4	8.7	29.8	87.6
26-Feb	8.1	7.7	7.0	7.4	7.9	Z	19.4	20.2	17.2	8.5	16.2	14.2	10.4	7.7	5.5	7.0	6.5	7.4	4.8	6.4	7.7	6.4	7.2	5.4	9.4	20.2
27-Feb	Z	8.2	4.7	5.0	5.7	6.9	10.6	14.1	9.6	8.6	7.2	10.7	13.6	15.7	21.9	21.1	18.7	16.2	18.2	34.5	21.5	24.4	25.6	31.3	15.4	34.5
28-Feb	110.5	Z	99.1	92.6	105.9	143.8	100.9	65.7	48.2	31.7	31.5	24.6	30.7	30.0	15.5	9.7	10.6	16.3	25.0	29.2	42.3	40.7	34.1	26.4	50.7	143.8
	35.6	29.2	28.2	24.6	30.5	30.5	33.2	32.2	30.7	27.2	28.7	27.6	24.7	20.6	18.1	16.3	21.5	27.0	31.9	30.9	26.9	26.1	27.8	30.5	Diurnal Average	
	129.8	122.9	123.9	92.6	131.9	160.6	185.4	174.9	211.2	81.0	102.4	117.6	105.3	82.8	73.7	64.3	118.4	198.4	200.4	143.4	118.5	93.3	110.9	143.8	Diurnal Maximum	

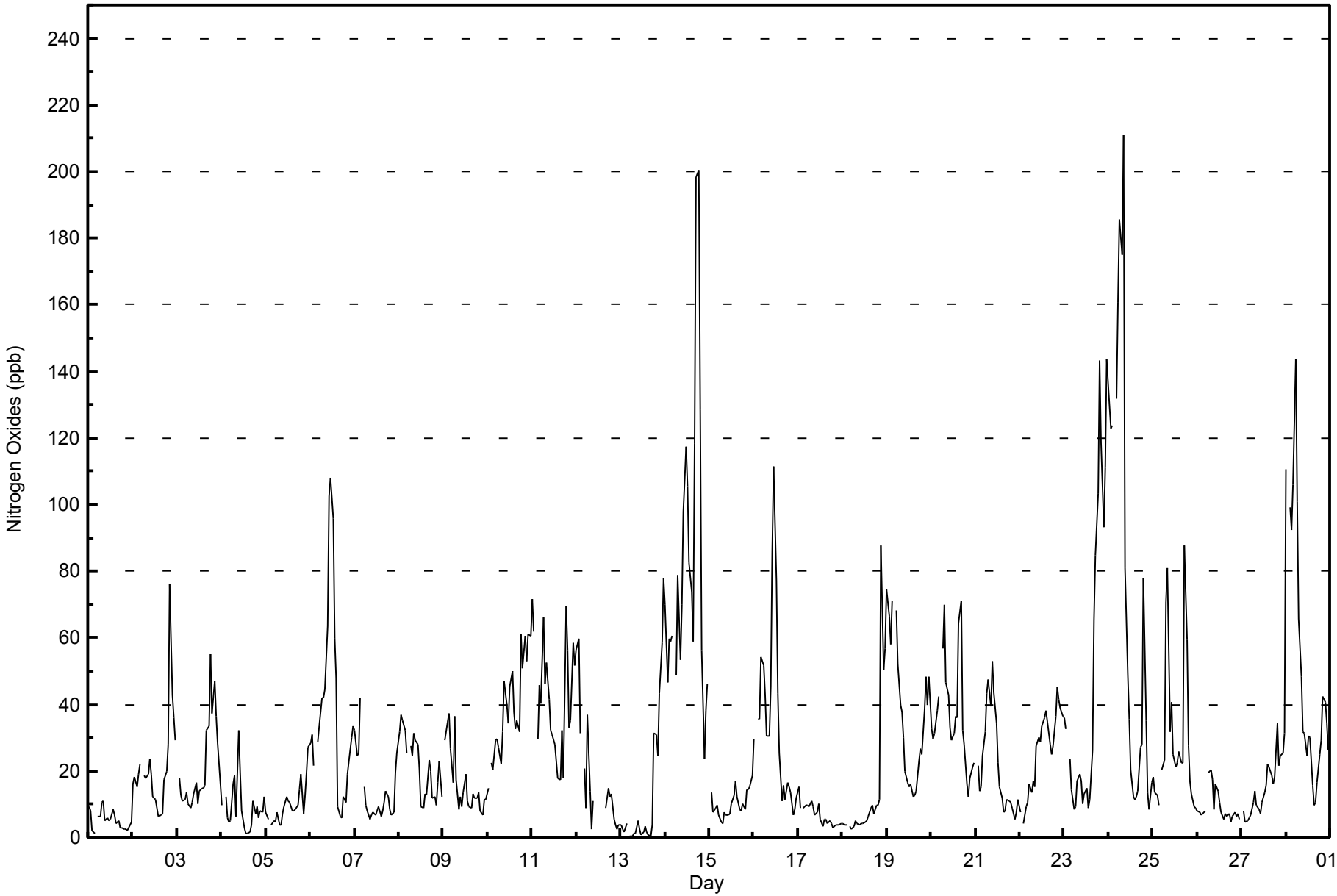
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Barge Landing - February 2026



Nitrogen Oxides (NO_X) - ppb
Barge Landing - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	363	56.90	56.90
21 - 40	149	23.35	80.25
11 - 80	88	13.79	94.04
81 - 159	30	4.70	98.75
> 159	6	0.94	99.69

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Barge Landing - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	93	103	30	8	6	2	22	37	14	9	18	11	1	1	3	5	363
21 - 40	20	12	8	4	4	2	7	25	13	8	3	4	1	3	10	25	149
11 - 80	6	4	3	2	1	1	3	22	12	8	5	2	2	1	4	12	88
81 - 159	3	2	1	3	2	0	2	3	5	0	0	0	0	2	1	6	30
> 159	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1	6
Totals	123	121	42	17	13	5	34	91	44	25	26	17	4	7	18	49	636

Total Number of Valid Hours: 638

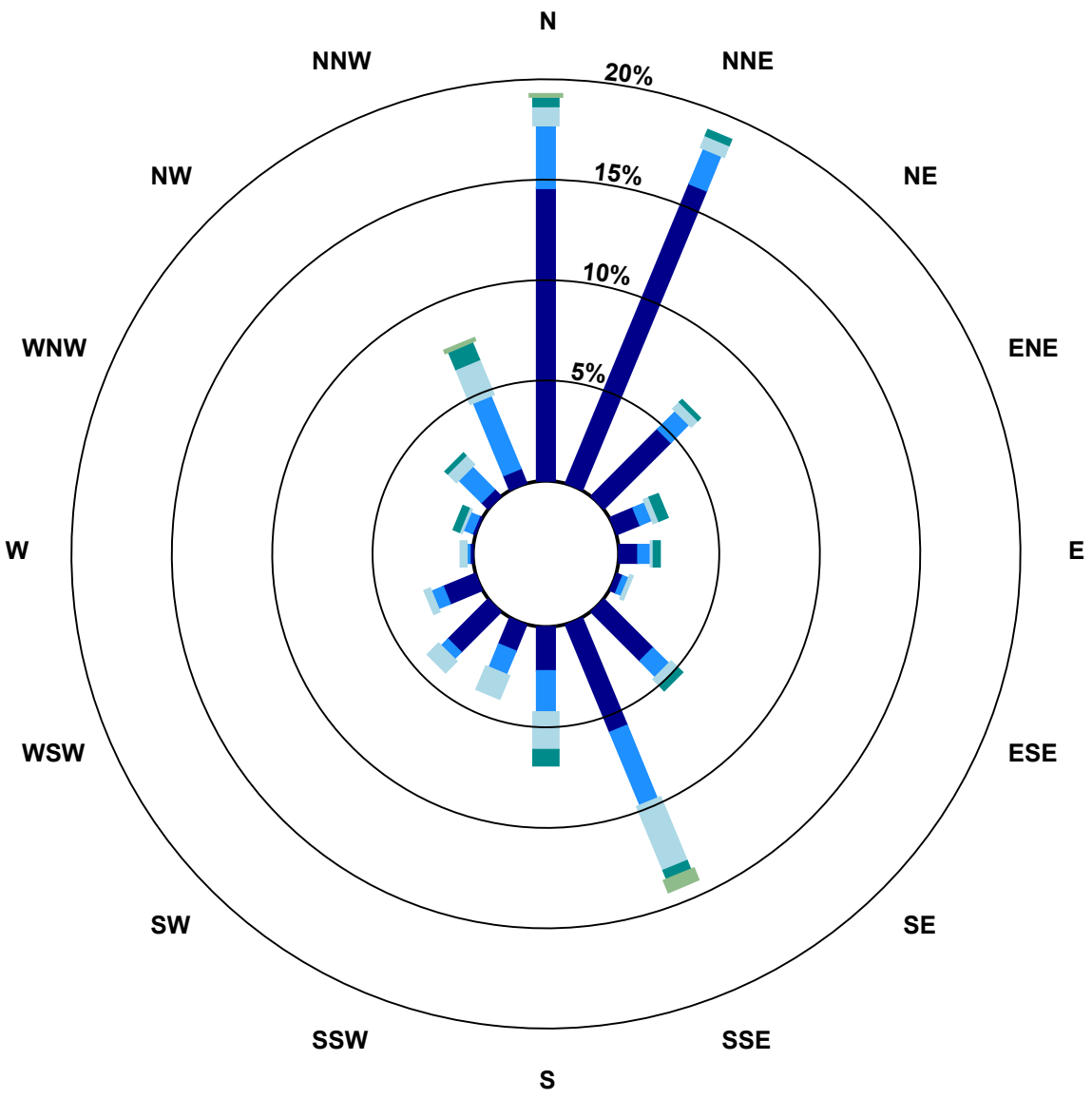
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Barge Landing



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

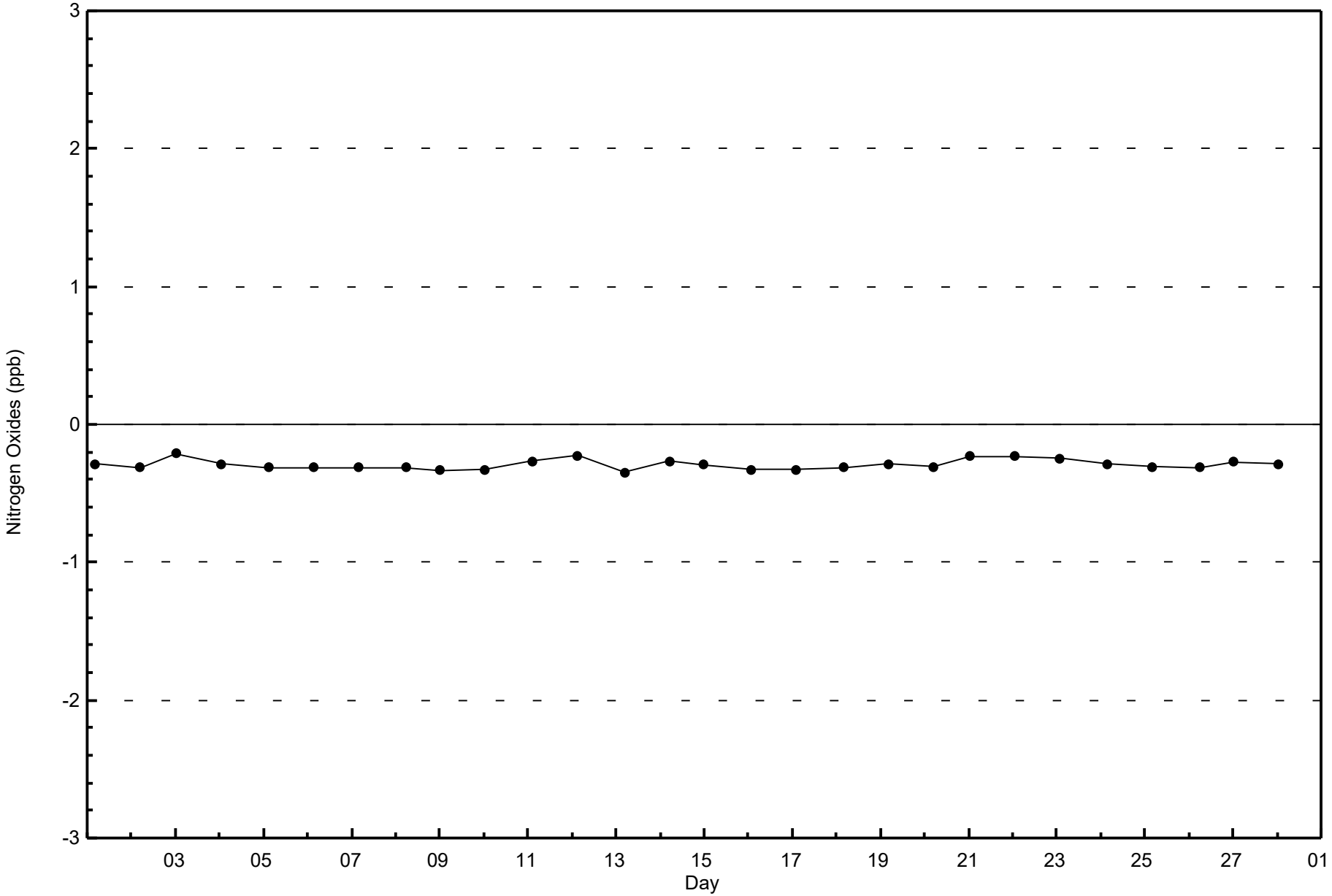
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Barge Landing - February 2026

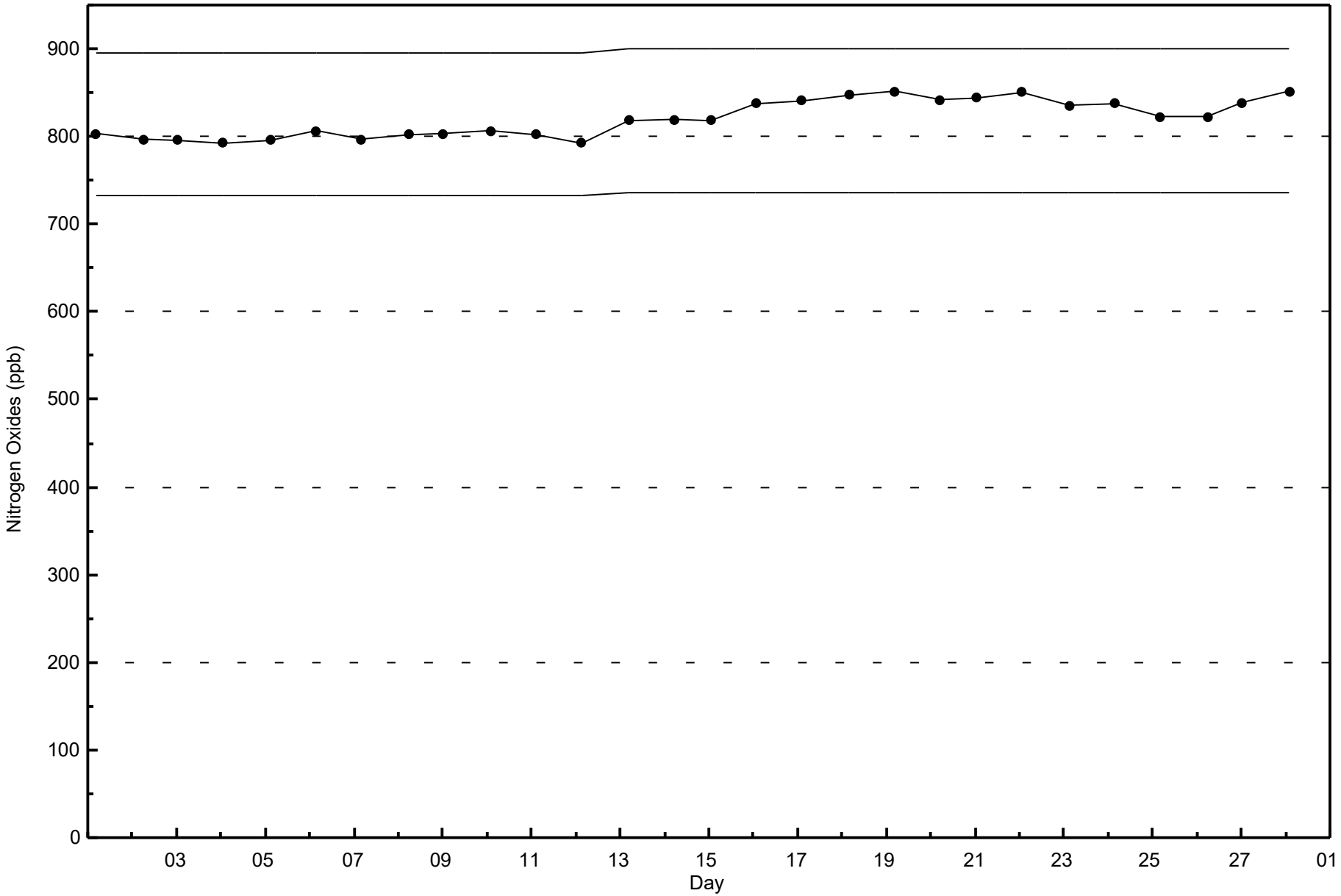


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Barge Landing - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Barge Landing - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 18.4 $\mu g/m^3$ on Feb 14 19:00

Maximum Daily Average: 9.8 $\mu g/m^3$ on Feb 16

Minimum Value: 1.2 $\mu g/m^3$ on Feb 13 01:00

Minimum Daily Average: 2.7 $\mu g/m^3$ on Feb 5

Maximum Diurnal Average: 5.7 $\mu g/m^3$ at hour 12

Minimum Diurnal Average: 4.6 $\mu g/m^3$ at hour 16

Monthly Average: 5.10 $\mu g/m^3$

Percentiles: P_1 = 1.5 P_{10} = 2.8 Q_1 = 3.4 Median = 4.5 Q_3 = 5.8 P_{90} = 8.2 P_{99} = 15.5

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Hours of Calibration:	2
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.9	2.8	2.6	2.4	2.6	2.6	3.0	3.9	4.1	3.4	3.3	3.0	3.1	2.9	3.2	2.9	3.2	2.8	2.5	2.2	2.4	2.3	2.5	2.8	2.9	4.1
2-Feb	3.9	5.6	5.3	3.5	4.1	4.0	3.7	4.5	5.2	5.8	6.0	5.2	5.8	6.0	5.9	6.1	6.4	7.1	7.6	7.7	7.0	8.2	7.6	7.7	5.8	8.2
3-Feb	8.2	6.4	5.4	5.0	5.0	5.3	4.8	4.0	3.4	3.5	3.5	3.5	3.7	3.9	3.9	4.2	4.8	4.8	5.7	5.7	5.9	5.9	6.6	7.8	5.0	8.2
4-Feb	6.7	6.0	6.1	5.9	6.4	7.1	8.7	8.8	5.9	5.1	3.9	3.2	2.6	2.1	1.8	1.6	1.4	3.6	4.3	4.9	4.7	5.0	4.5	3.9	4.7	8.8
5-Feb	3.6	3.2	3.0	2.5	2.4	2.3	2.5	2.5	2.2	2.2	2.3	2.4	2.6	2.7	2.3	2.5	2.4	2.5	2.7	3.0	2.8	2.8	3.1	3.4	2.7	3.6
6-Feb	3.8	4.2	4.2	4.2	4.3	4.7	5.1	5.7	6.5	7.0	7.3	7.3	6.6	5.6	5.6	3.8	3.5	3.4	3.5	3.3	4.7	5.3	5.8	5.8	5.0	7.3
7-Feb	5.8	5.5	5.6	5.7	5.5	3.4	3.0	3.5	3.8	3.6	3.6	3.1	2.8	2.9	3.0	3.5	3.5	3.6	3.7	3.6	3.6	3.6	3.9	3.9	3.9	5.8
8-Feb	3.8	3.9	3.8	4.1	3.9	4.0	4.2	4.3	4.5	3.7	3.7	3.7	3.6	3.3	3.2	3.6	4.0	4.1	4.0	3.8	4.0	4.3	4.5	4.7	3.9	4.7
9-Feb	4.8	4.9	5.0	5.2	4.6	4.0	5.2	6.2	6.7	6.4	5.7	4.6	4.8	3.5	3.1	2.9	3.0	3.0	2.9	3.0	2.7	2.7	2.7	2.9	4.2	6.7
10-Feb	2.9	3.0	3.3	3.2	3.7	4.7	5.8	6.9	8.0	8.6	9.1	11.8	14.1	16.9	13.4	10.6	10.1	9.6	8.7	8.4	8.2	11.2	18.1	13.0	8.9	18.1
11-Feb	11.2	11.0	11.2	10.8	10.8	9.9	9.8	9.4	9.2	9.8	9.6	10.6	10.5	7.1	4.5	3.1	3.1	3.2	4.8	4.3	4.6	4.1	5.2	5.0	7.6	11.2
12-Feb	5.0	5.5	6.0	3.5	3.3	2.7	3.1	2.6	1.8	2.3	3.2	3.4	2.9	2.5	3.0	2.8	1.7	1.7	1.7	1.7	1.5	1.5	1.3	1.2	2.8	6.0
13-Feb	1.2	1.3	1.5	1.9	2.1	2.2	2.3	2.4	2.5	2.7	2.6	2.4	2.4	2.4	2.2	1.9	1.8	2.2	6.9	5.2	3.0	3.2	3.5	4.3	2.7	6.9
14-Feb	5.6	5.3	7.7	7.0	8.3	9.4	8.4	8.3	8.2	8.0	7.2	9.8	13.8	11.5	10.6	7.9	12.5	16.8	18.4	13.5	8.6	6.8	7.9	7.8	9.6	18.4
15-Feb	7.6	5.6	4.9	4.5	4.6	4.4	4.0	3.4	4.0	3.8	4.0	4.4	5.1	6.0	7.5	6.8	5.6	4.5	5.1	4.9	6.1	7.6	8.2	10.1	5.5	10.1
16-Feb	14.1	10.2	12.1	9.9	15.2	16.2	13.1	9.2	9.2	11.3	16.3	16.7	12.3	7.8	6.8	5.8	6.4	5.8	8.9	5.4	6.2	4.8	5.1	6.2	9.8	16.7
17-Feb	7.7	6.9	5.8	4.7	5.3	4.4	4.8	5.3	5.5	5.3	6.7	6.2	4.7	4.7	4.9	5.6	5.9	5.6	5.3	4.7	4.7	4.5	4.0	4.1	5.3	7.7
18-Feb	4.7	4.0	4.3	4.0	4.0	4.0	4.2	4.1	3.7	3.8	3.6	3.8	3.4	3.3	3.1	3.0	3.6	3.0	3.0	3.0	2.8	3.6	3.4	3.9	3.6	4.7
19-Feb	4.1	5.1	4.5	4.6	5.4	5.3	4.9	5.3	6.9	7.7	5.8	5.8	4.5	4.3	3.9	3.4	3.2	3.4	3.3	3.3	4.4	4.5	4.7	5.2	4.7	7.7
20-Feb	4.6	4.5	4.9	5.4	5.9	6.3	6.8	7.0	6.4	6.9	6.8	7.0	8.1	8.0	8.1	12.3	11.5	5.5	5.0	5.1	4.3	4.7	5.0	4.9	6.5	12.3
21-Feb	4.0	4.4	3.7	4.7	5.0	5.8	5.2	5.6	5.2	6.0	5.8	5.5	4.8	4.5	3.9	3.6	3.7	4.7	5.1	5.0	5.8	4.9	4.3	4.6	4.8	6.0
22-Feb	4.6	3.6	3.7	3.9	4.0	4.4	4.4	4.6	4.1	4.8	5.0	4.9	5.4	5.6	5.5	5.3	5.0	4.5	4.3	4.2	4.4	4.3	3.9	3.8	4.5	5.6
23-Feb	3.6	3.4	3.4	3.2	2.9	2.7	2.6	2.8	3.3	3.7	C	C	2.8	2.8	2.9	3.0	4.0	5.1	5.2	5.6	5.3	4.9	5.4	5.6	3.8	5.6
24-Feb	5.3	6.5	7.3	7.4	7.2	8.2	8.7	8.1	13.0	6.4	4.3	5.0	5.2	4.4	4.3	4.5	4.3	4.7	4.5	4.5	3.6	3.3	3.0	3.8	5.7	13.0
25-Feb	4.1	3.9	3.8	3.5	4.1	4.0	4.2	4.9	5.7	5.5	6.7	6.2	6.7	4.9	4.8	4.5	4.5	6.8	6.9	4.9	3.6	3.2	3.2	3.3	4.7	6.9
26-Feb	3.2	3.2	3.1	3.2	3.3	2.9	3.2	3.3	3.1	2.9	3.1	3.1	3.2	3.2	2.9	M	3.6	4.0	3.5	4.1	4.0	3.3	3.4	3.3	3.3	4.1
27-Feb	3.4	3.3	3.1	2.8	2.8	3.0	3.1	3.5	3.5	3.2	3.5	3.4	3.6	3.6	4.0	4.3	4.3	3.6	3.6	5.0	4.6	4.6	4.2	4.2	3.7	5.0
28-Feb	5.2	5.5	6.8	8.3	8.5	13.2	10.3	6.7	7.0	6.3	7.6	8.2	5.3	5.1	4.1	4.0	4.2	4.2	4.9	5.8	9.5	7.3	7.0	6.4	6.7	13.2
	5.2	5.0	5.1	4.8	5.2	5.4	5.3	5.2	5.4	5.3	5.6	5.7	5.5	5.0	4.7	4.6	4.7	4.8	5.2	4.9	4.8	4.7	5.1	5.1	Diurnal Average	
	14.1	11.0	12.1	10.8	15.2	16.2	13.1	9.4	13.0	11.3	16.3	16.7	14.1	16.9	13.4	12.3	12.5	16.8	18.4	13.5	9.5	11.2	18.1	13.0	Diurnal Maximum	

C - Calibration M - Maintenance

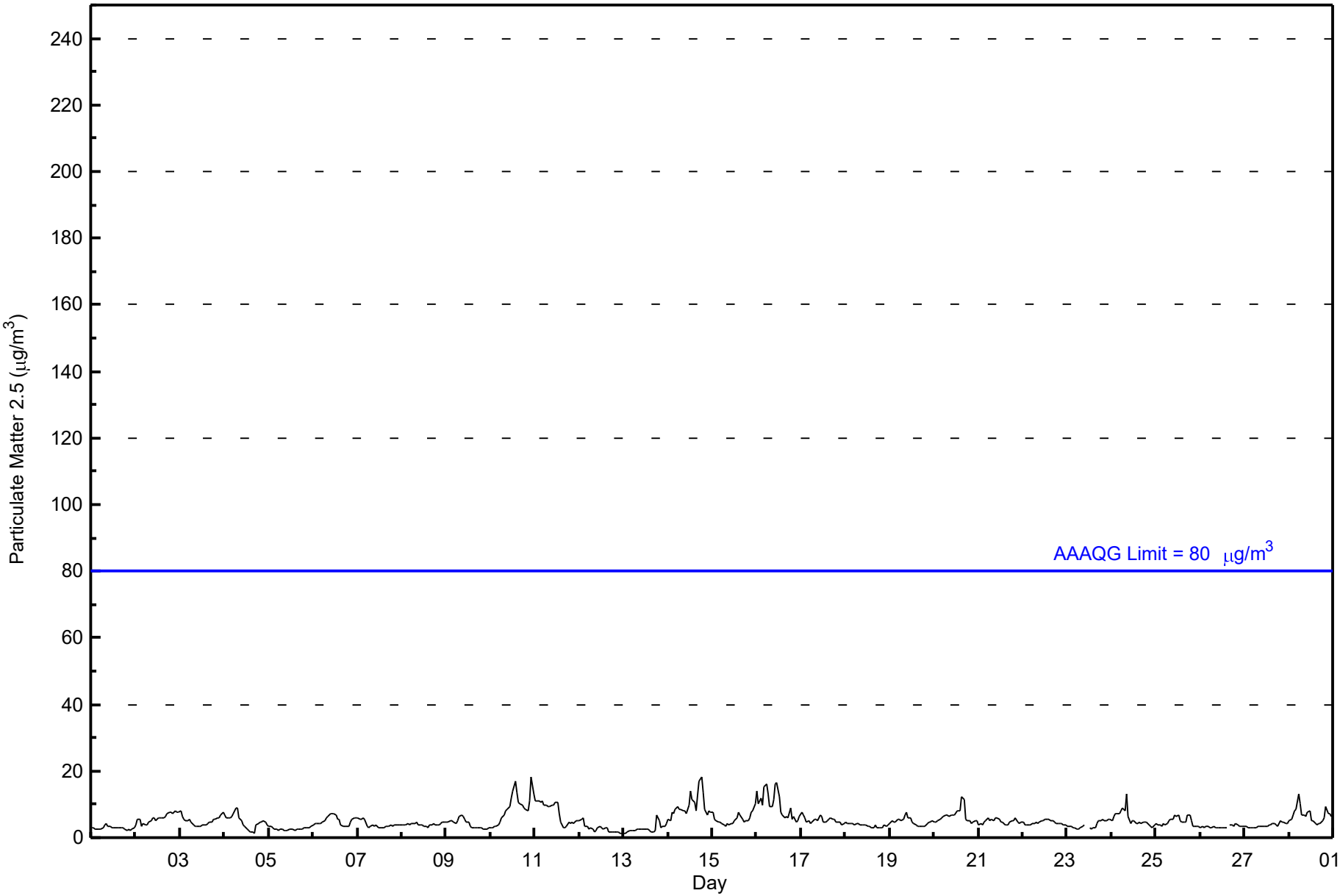
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Barge Landing - February 2026



Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	464	69.36	69.36
6 - 15	198	29.60	98.95
16 - 25	7	1.05	100.00
26 - 80	0	0.00	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 669

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Barge Landing - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	99	101	32	18	9	4	30	60	21	7	19	12	1	5	13	33	464
6 - 15	30	22	10	1	4	1	6	41	26	15	9	6	3	2	4	18	198
16 - 25	1	1	0	0	0	0	0	0	0	2	0	0	0	0	1	2	7
26 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	130	124	42	19	13	5	36	101	47	24	28	18	4	7	18	53	669

Total Number of Valid Hours: 669

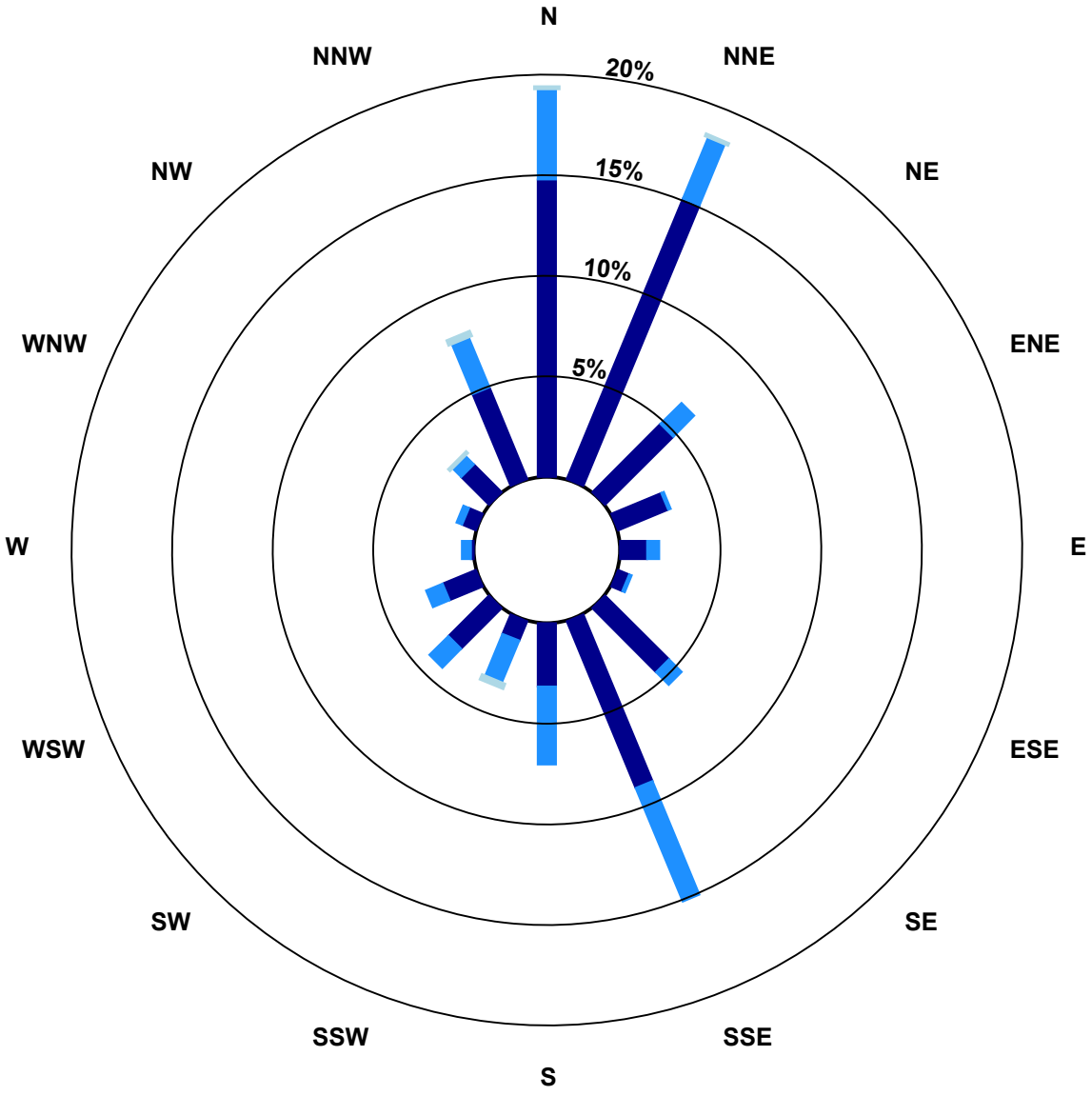
Total Number of Hours: 672

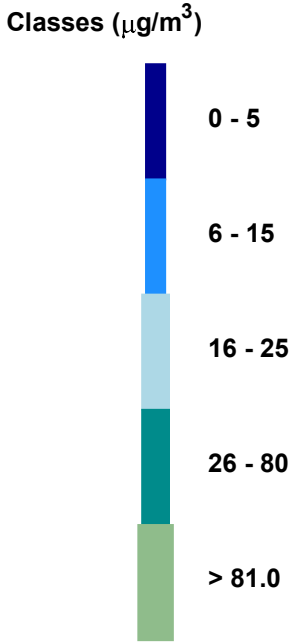
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Barge Landing





Total Number of Valid Hours: 669

Maximum Value: 9.9 C on Feb 4 16:00

Maximum Daily Average: 0.6 C on Feb 13

Minimum Value: -38.6 C on Feb 28 06:00

Minimum Daily Average: -31.4 C on Feb 18

Maximum Diurnal Average: -12.0 C at hour 16

Minimum Diurnal Average: -19.1 C at hour 8

Monthly Average: -16.08 C

Percentiles: P_1 = -37.8 P_{10} = -28.8 Q_1 = -23.8 Median = -15.6 Q_3 = -9.7 P_{90} = -3.3 P_{99} = 5.6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

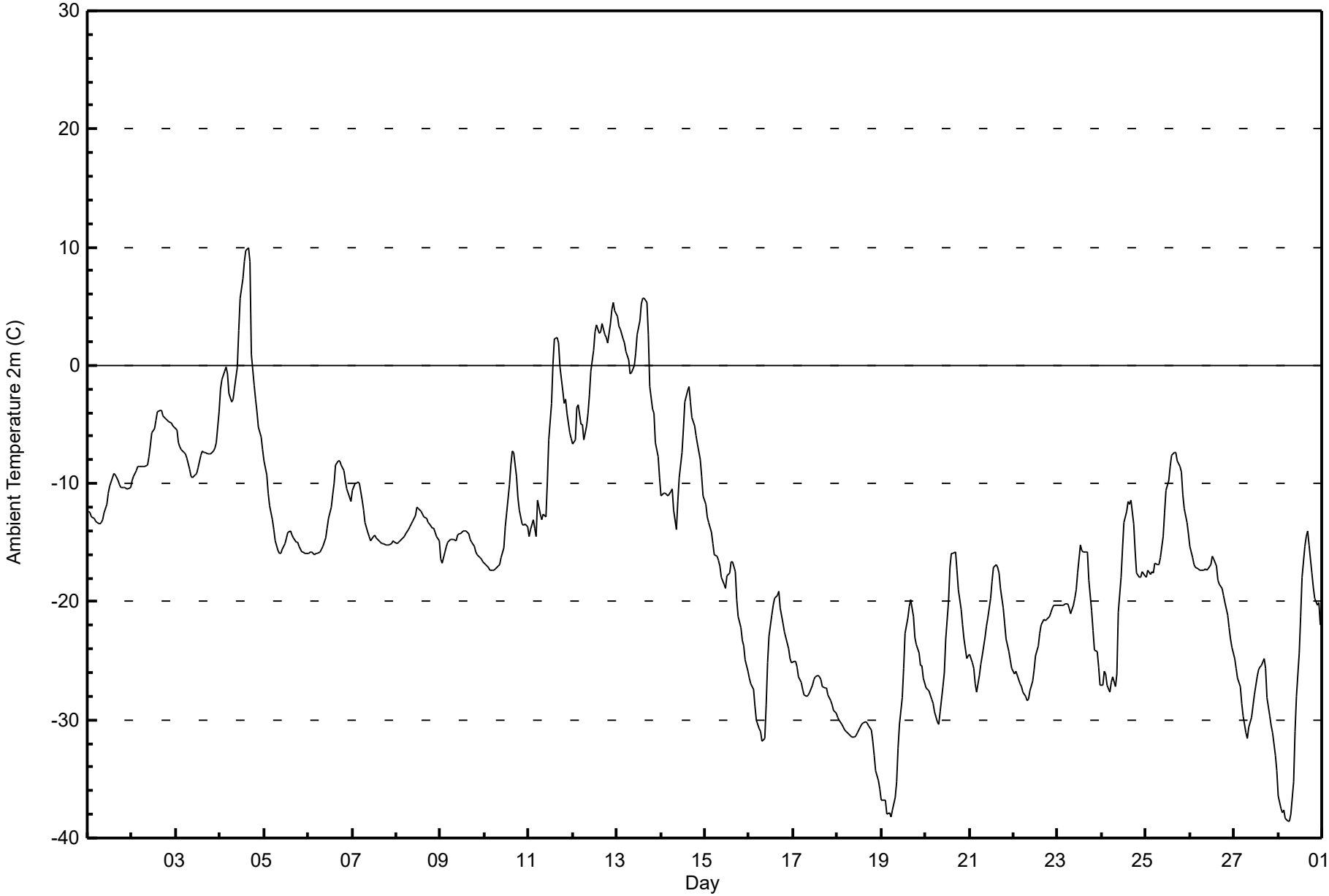
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.4	-12.5	-12.8	-13.0	-13.1	-13.3	-13.4	-13.3	-13.1	-12.5	-11.8	-10.8	-10.2	-9.6	-9.1	-9.2	-9.7	-10.1	-10.3	-10.4	-10.3	-10.4	-10.5	-10.3	-11.3	-9.1
2-Feb	-9.7	-9.4	-8.9	-8.6	-8.6	-8.6	-8.5	-8.6	-8.4	-7.7	-6.7	-5.7	-5.4	-4.7	-4.0	-3.8	-3.8	-4.3	-4.5	-4.6	-4.7	-4.9	-5.2	-5.2	-6.4	-3.8
3-Feb	-5.5	-6.5	-6.9	-7.1	-7.4	-7.5	-7.9	-8.8	-9.4	-9.5	-9.2	-9.1	-8.7	-7.6	-7.2	-7.4	-7.4	-7.5	-7.5	-7.5	-7.3	-7.0	-6.5	-4.0	-7.5	-4.0
4-Feb	-2.0	-1.2	-0.5	-0.2	-0.7	-2.4	-3.1	-2.9	-1.9	-0.2	2.9	5.6	7.3	8.7	9.7	9.9	8.8	1.0	-1.6	-2.8	-4.0	-5.3	-6.1	-7.1	0.5	9.9
5-Feb	-8.0	-9.3	-10.8	-11.9	-13.1	-13.9	-14.8	-15.7	-16.0	-15.9	-15.6	-15.1	-14.6	-14.2	-14.1	-14.3	-14.6	-14.9	-15.0	-15.4	-15.8	-15.8	-15.9	-15.9	-14.2	-8.0
6-Feb	-15.9	-15.8	-15.8	-16.0	-16.0	-16.0	-15.8	-15.6	-15.3	-14.6	-13.8	-13.0	-12.0	-11.0	-10.0	-8.5	-8.1	-8.0	-8.5	-9.0	-9.7	-10.5	-11.2	-11.6	-12.6	-8.0
7-Feb	-10.5	-10.0	-10.0	-9.9	-10.0	-11.4	-12.3	-13.3	-14.2	-14.5	-14.9	-14.5	-14.4	-14.6	-14.8	-15.0	-15.1	-15.1	-15.2	-15.2	-15.2	-15.1	-14.9	-14.9	-13.5	-9.9
8-Feb	-15.1	-15.0	-14.8	-14.6	-14.5	-14.2	-13.9	-13.7	-13.4	-13.2	-12.7	-12.0	-12.1	-12.4	-12.6	-12.9	-13.0	-13.4	-13.5	-13.7	-13.8	-14.1	-14.5	-14.8	-13.7	-12.0
9-Feb	-16.4	-16.8	-15.8	-15.3	-15.0	-14.8	-14.7	-14.7	-14.8	-14.4	-14.2	-14.2	-14.0	-14.0	-14.0	-14.3	-14.7	-15.0	-15.3	-15.7	-16.1	-16.3	-16.4	-16.6	-15.1	-14.0
10-Feb	-16.9	-17.0	-17.1	-17.4	-17.4	-17.3	-17.2	-17.0	-16.9	-16.3	-15.4	-13.7	-12.4	-10.2	-8.5	-7.2	-7.4	-9.4	-11.2	-12.3	-13.4	-13.5	-13.5	-13.7	-13.8	-7.2
11-Feb	-14.5	-13.9	-13.1	-13.8	-14.5	-11.4	-12.6	-13.0	-12.6	-12.8	-9.9	-6.4	-3.2	0.0	2.2	2.4	1.9	-0.1	-2.2	-3.2	-2.9	-4.0	-5.7	-6.2	-7.1	2.4
12-Feb	-6.7	-6.3	-3.6	-3.3	-5.0	-5.0	-6.3	-5.1	-4.0	-2.5	-0.5	1.3	2.8	3.4	2.8	2.9	3.5	2.6	2.4	1.8	3.5	4.8	5.3	4.7	-0.3	5.3
13-Feb	4.1	3.3	3.0	2.2	1.9	1.2	0.4	-0.7	-0.6	0.0	1.0	2.6	3.8	5.2	5.7	5.6	5.4	2.6	-1.8	-3.7	-4.1	-6.5	-7.8	-9.5	0.6	5.7
14-Feb	-11.1	-10.8	-10.9	-10.9	-11.1	-10.7	-10.4	-12.3	-13.9	-11.5	-9.5	-7.4	-5.4	-3.1	-2.2	-1.8	-3.1	-4.4	-5.1	-5.9	-6.7	-7.9	-9.4	-11.0	-8.2	-1.8
15-Feb	-11.7	-12.8	-13.3	-14.2	-15.0	-16.1	-16.2	-16.5	-17.0	-17.9	-18.5	-18.8	-17.8	-17.5	-16.6	-16.6	-17.4	-19.8	-21.3	-22.2	-23.2	-23.7	-25.0	-25.9	-18.1	-11.7
16-Feb	-26.5	-26.9	-27.5	-28.9	-30.1	-30.8	-31.0	-31.8	-31.5	-28.7	-25.2	-22.9	-21.2	-20.3	-19.7	-19.5	-19.1	-20.5	-21.8	-22.6	-23.0	-24.0	-24.8	-25.1	-25.1	-19.1
17-Feb	-25.0	-25.1	-25.5	-26.4	-26.8	-27.4	-27.9	-28.0	-27.9	-27.7	-27.1	-26.6	-26.3	-26.3	-26.3	-26.6	-27.2	-27.3	-27.4	-27.9	-28.4	-28.7	-29.2	-29.4	-27.2	-25.0
18-Feb	-29.8	-30.1	-30.4	-30.6	-30.8	-31.0	-31.2	-31.3	-31.5	-31.4	-31.3	-31.1	-30.7	-30.4	-30.2	-30.2	-30.3	-30.5	-30.9	-31.8	-33.0	-34.2	-35.1	-35.9	-31.4	-29.8
19-Feb	-36.8	-36.7	-36.9	-38.0	-37.8	-38.2	-37.6	-36.5	-35.2	-32.4	-30.4	-28.2	-25.7	-22.7	-21.4	-20.4	-19.9	-21.3	-23.0	-23.6	-24.3	-25.5	-25.5	-26.5	-29.3	-19.9
20-Feb	-27.3	-27.4	-27.6	-28.3	-28.6	-29.3	-30.2	-30.3	-29.3	-27.2	-26.0	-23.1	-20.0	-17.1	-15.9	-16.0	-15.8	-17.3	-18.9	-20.6	-22.0	-23.2	-24.8	-24.6	-23.8	-15.8
21-Feb	-24.4	-25.1	-25.7	-26.9	-27.7	-26.2	-25.3	-24.5	-23.0	-22.1	-21.4	-19.8	-18.3	-17.1	-16.9	-17.1	-17.5	-18.8	-20.6	-21.9	-23.1	-24.2	-24.9	-25.6	-22.4	-16.9
22-Feb	-26.1	-25.9	-26.3	-26.9	-27.2	-27.6	-28.1	-28.4	-28.3	-27.5	-26.7	-25.8	-24.6	-23.7	-22.6	-22.0	-21.5	-21.6	-21.5	-21.3	-20.9	-20.6	-20.4	-20.3	-24.4	-20.3
23-Feb	-20.3	-20.3	-20.3	-20.3	-20.2	-20.2	-20.6	-21.0	-20.3	-19.8	-19.0	-17.6	-15.2	-15.7	-15.8	-15.8	-15.8	-18.2	-20.8	-22.5	-24.2	-24.3	-25.6	-27.1	-20.0	-15.2
24-Feb	-27.1	-25.9	-26.1	-27.0	-27.7	-26.9	-26.4	-27.1	-26.2	-20.9	-17.9	-15.6	-13.2	-12.3	-11.5	-11.7	-11.4	-13.4	-15.7	-17.6	-18.0	-18.0	-17.4	-17.8	-19.7	-11.4
25-Feb	-18.0	-17.3	-17.7	-17.4	-17.5	-16.8	-16.9	-16.9	-16.2	-14.5	-12.5	-10.6	-9.7	-8.6	-7.6	-7.4	-7.3	-8.1	-8.6	-9.0	-10.9	-12.1	-13.3	-14.2	-12.9	-7.3
26-Feb	-15.3	-16.3	-16.8	-17.1	-17.2	-17.3	-17.3	-17.4	-17.2	-17.3	-17.2	-16.9	-16.2	-16.4	-17.0	-18.1	-18.6	-18.9	-19.5	-20.1	-21.1	-22.3	-23.1	-23.8	-18.3	-15.3
27-Feb	-24.8	-25.6	-26.4	-27.2	-28.6	-29.7	-31.1	-31.6	-30.6	-29.7	-28.8	-27.9	-26.4	-25.8	-25.5	-25.4	-24.8	-25.6	-28.2	-29.6	-30.5	-31.1	-33.0	-34.3	-28.4	-24.8
28-Feb	-36.5	-37.5	-37.8	-37.6	-38.3	-38.6	-38.6	-38.0	-35.2	-31.0	-28.1	-24.3	-21.3	-17.9	-15.3	-14.5	-14.1	-15.2	-17.5	-18.8	-19.7	-20.3	-20.1	-22.0	-26.6	-14.1
	-17.5	-17.6	-17.7	-18.1	-18.5	-18.6	-18.9	-19.1	-18.7	-17.6	-16.4	-15.1	-13.8	-12.7	-12.1	-12.0	-12.1	-13.3	-14.5	-15.3	-15.8	-16.4	-16.9	-17.5	Diurnal Average	
	4.1	3.3	3.0	2.2	1.9	1.2	0.4	-0.7	-0.6	0.0	2.9	5.6	7.3	8.7	9.7	9.9	8.8	2.6	2.4	1.8	3.5	4.8	5.3	4.7	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Barge Landing - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	226	33.63	33.63
-20 - 0	406	60.42	94.05
0 - 10	40	5.95	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 97.5 % on Feb 4 07:00

Maximum Daily Average: 86.4 % on Feb 4

Minimum Value: 34.9 % on Feb 13 17:00

Minimum Daily Average: 53.3 % on Feb 13

Maximum Diurnal Average: 80.5 % at hour 8

Minimum Diurnal Average: 66.1 % at hour 15

Monthly Average: 75.99 %

Percentiles: P_1 = 46.2 P_{10} = 60.7 Q_1 = 70.0 Median = 77.8 Q_3 = 84.1 P_{90} = 88.3 P_{99} = 94.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

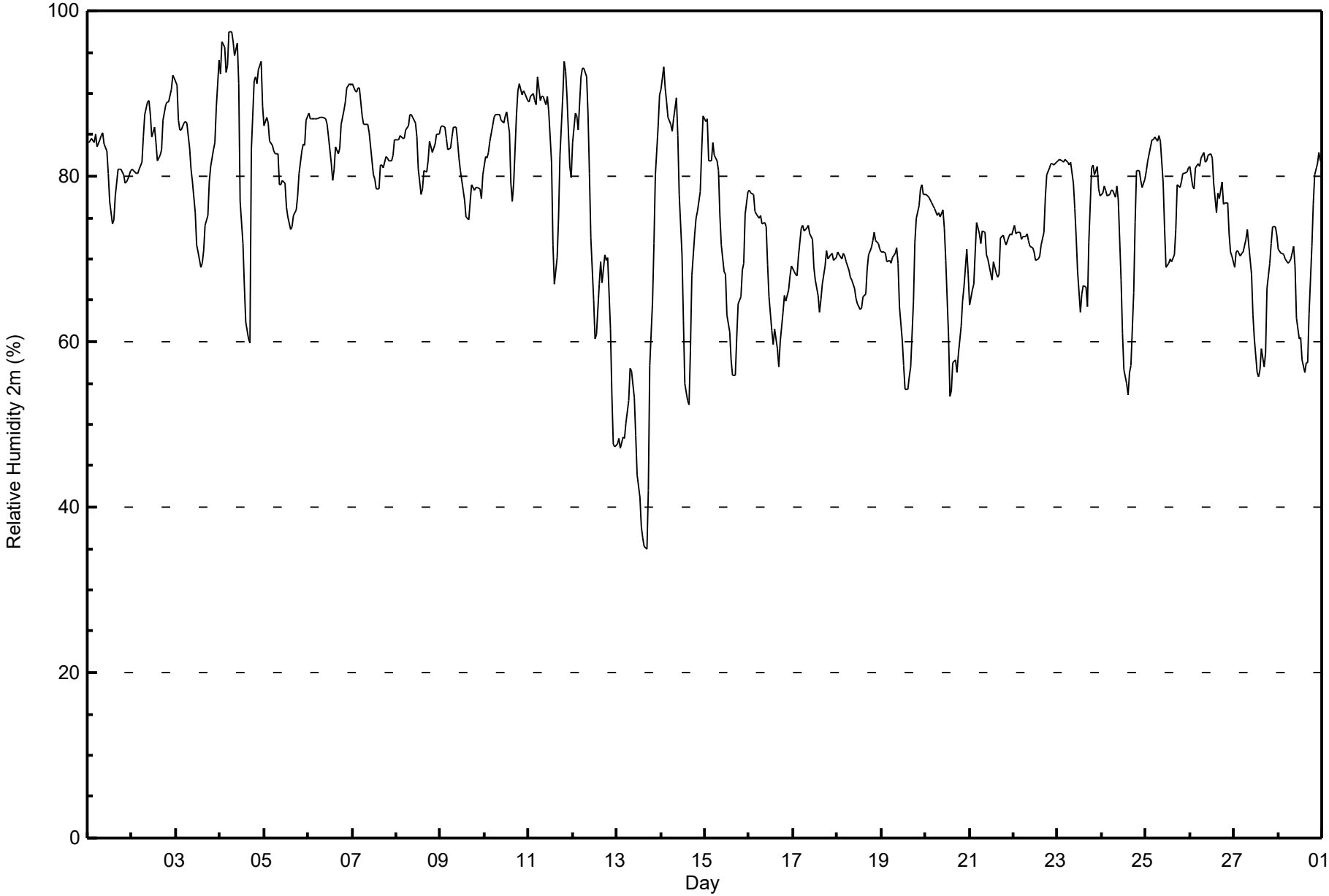
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	84.1	84.2	84.6	84.2	85.1	83.5	84.3	85.0	85.3	83.9	83.0	80.3	77.0	74.3	74.8	77.6	80.8	80.9	80.9	80.2	79.1	79.3	79.7	80.6	81.4	85.3
2-Feb	80.8	80.7	80.4	80.4	80.8	81.7	84.7	87.4	89.1	89.1	87.4	84.7	86.0	84.1	81.9	82.5	83.2	86.8	88.7	89.1	89.0	90.5	92.2	91.9	85.5	92.2
3-Feb	91.0	86.8	85.5	85.6	86.4	86.6	86.5	83.4	80.9	79.4	75.6	71.6	70.8	68.9	69.4	71.0	74.0	75.3	79.4	81.2	83.3	84.0	88.3	94.1	80.8	94.1
4-Feb	92.5	96.3	95.6	92.6	93.3	97.4	97.5	96.2	94.5	96.2	91.1	77.0	71.9	66.7	62.4	60.3	59.9	83.3	91.6	92.0	91.2	92.8	94.0	88.5	86.4	97.5
5-Feb	86.1	87.1	86.5	84.2	83.8	83.0	82.7	82.7	79.0	78.9	79.6	79.2	76.3	75.0	73.6	73.9	75.2	75.9	77.6	80.4	83.0	84.0	83.7	86.8	80.8	87.1
6-Feb	87.7	86.9	87.0	86.9	86.9	87.0	87.1	87.1	87.2	87.0	86.3	84.7	81.6	79.6	80.9	83.6	82.8	83.5	86.4	87.9	89.0	90.7	91.1	91.0	86.2	91.1
7-Feb	91.1	90.3	90.2	90.7	90.6	87.2	86.3	86.2	86.3	85.3	83.5	80.1	79.7	78.5	78.6	81.4	81.3	81.0	82.4	82.2	81.9	81.8	82.5	84.4	84.3	91.1
8-Feb	84.4	84.5	84.8	84.5	84.6	85.6	86.2	87.4	87.4	87.2	86.5	84.8	80.8	77.8	78.5	80.7	80.6	81.8	84.2	82.8	83.4	83.8	85.0	85.0	83.8	87.4
9-Feb	85.9	86.2	85.9	84.7	83.2	83.3	84.7	85.9	85.9	84.3	82.1	80.6	78.3	77.0	75.0	74.8	76.9	79.0	78.4	78.7	78.7	78.5	77.2	80.2	81.1	86.2
10-Feb	82.3	82.3	82.8	84.3	86.1	87.2	87.5	87.4	87.5	86.8	86.5	87.3	87.8	85.2	79.2	76.9	79.1	87.5	90.4	91.1	89.8	90.4	90.0	89.2	86.0	91.1
11-Feb	89.0	89.7	90.1	89.2	88.6	92.0	89.1	89.6	89.6	88.7	89.6	87.9	81.7	71.7	66.9	70.1	75.1	82.6	89.6	94.0	92.7	89.7	81.1	79.8	85.3	94.0
12-Feb	84.0	87.6	87.3	85.5	92.0	93.1	93.0	92.1	87.5	80.4	72.5	65.1	60.3	60.9	66.9	69.6	67.2	70.5	69.8	70.2	61.4	53.6	47.5	47.3	73.6	93.1
13-Feb	47.6	48.2	47.1	48.5	48.4	50.2	52.8	56.7	56.5	53.3	48.7	44.0	41.2	37.7	36.3	35.3	34.9	42.0	57.0	64.9	71.8	80.2	86.0	89.8	53.3	89.8
14-Feb	90.5	93.2	90.7	89.1	87.1	86.2	85.5	86.9	89.5	84.8	77.8	70.5	62.6	55.0	52.9	52.4	58.9	67.9	72.8	74.9	75.7	78.2	83.1	87.3	77.2	93.2
15-Feb	86.5	86.9	81.9	81.9	84.1	82.5	81.9	80.6	75.3	71.7	68.4	68.1	63.3	61.2	57.8	56.0	56.0	60.6	64.6	65.5	68.7	69.5	75.5	78.1	71.9	86.9
16-Feb	78.3	77.9	77.8	75.8	75.5	75.0	75.2	74.2	74.5	73.9	69.3	65.4	61.3	59.6	61.5	59.1	56.9	60.1	63.6	65.5	65.0	66.3	67.9	69.1	68.7	78.3
17-Feb	68.4	68.1	67.9	70.4	73.7	74.1	73.4	73.7	74.1	73.0	72.3	68.9	67.5	65.6	63.6	65.0	66.9	69.2	71.0	70.0	70.6	70.7	69.9	70.1	69.9	74.1
18-Feb	70.8	70.5	70.0	70.7	70.3	69.6	68.7	67.8	67.4	66.5	65.2	64.6	63.8	64.1	65.4	65.8	68.8	70.5	71.3	72.2	73.3	72.2	71.8	71.2	68.9	73.3
19-Feb	70.8	70.9	70.6	69.6	69.8	69.5	70.1	70.6	71.4	69.5	64.3	60.1	57.1	54.2	54.3	55.8	56.9	64.9	72.1	75.0	76.4	78.5	79.0	77.8	67.9	79.0
20-Feb	77.7	77.6	77.4	76.8	76.5	76.1	75.2	75.5	75.1	76.0	73.7	69.8	60.7	53.5	54.1	57.5	57.8	56.3	58.5	61.9	65.0	66.7	71.2	68.1	68.3	77.7
21-Feb	64.3	66.2	66.9	70.9	74.5	73.0	71.9	73.3	73.2	70.5	69.9	68.3	67.5	69.7	68.2	67.8	68.1	72.5	72.9	72.2	71.7	72.8	73.0	72.9	70.5	74.5
22-Feb	74.1	73.0	73.1	73.2	72.3	72.8	72.7	73.1	72.1	71.5	71.4	70.9	69.8	70.0	70.3	71.7	73.3	77.4	80.2	81.1	81.5	81.5	81.3	81.6	74.6	81.6
23-Feb	81.9	82.0	81.9	81.8	82.0	81.7	81.4	81.7	79.2	76.1	72.5	68.5	63.6	65.8	66.8	66.7	64.2	72.0	81.1	81.4	80.2	81.2	78.5	77.6	76.2	82.0
24-Feb	78.0	78.8	78.4	77.7	77.7	78.2	78.3	77.5	78.8	77.1	67.5	61.1	56.6	54.9	53.6	56.3	57.1	66.0	74.5	80.6	80.6	79.5	78.7	79.7	72.0	80.6
25-Feb	80.7	81.9	83.5	84.4	84.5	84.7	84.3	85.0	84.2	79.2	73.7	68.9	69.5	70.1	69.6	70.5	73.6	78.9	78.7	79.2	80.3	80.3	80.5	81.1	78.6	85.0
26-Feb	81.1	78.8	78.5	81.0	81.6	81.1	82.2	82.9	81.8	81.9	82.5	82.7	82.2	79.1	75.6	78.0	77.4	79.3	76.5	76.8	76.7	73.1	70.9	70.4	78.8	82.9
27-Feb	68.9	70.8	71.1	70.3	70.6	70.8	72.4	73.6	71.7	68.1	63.2	60.4	56.3	55.7	56.7	59.1	57.0	58.6	66.5	69.5	71.8	73.8	73.9	72.9	66.8	73.9
28-Feb	71.1	70.7	70.6	70.6	70.1	69.6	69.6	70.0	71.6	69.2	62.9	60.3	60.5	57.8	56.3	57.4	57.4	63.3	71.6	76.5	80.2	81.6	82.9	81.9	68.9	82.9
	79.6	79.9	79.6	79.5	80.0	80.1	80.2	80.5	79.9	78.2	75.2	72.0	69.1	66.9	66.1	67.0	67.9	72.4	76.1	77.7	78.3	78.8	79.2	79.6	Diurnal Average	
	92.5	96.3	95.6	92.6	93.3	97.4	97.5	96.2	94.5	96.2	91.1	87.9	87.8	85.2	81.9	83.6	83.2	87.5	91.6	94.0	92.7	92.8	94.0	94.1	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Barge Landing - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Barometric Pressure (BP) - inHg

Barge Landing - February 2026

Maximum Value: 30.0 inHg on Feb 22 00:00

Maximum Daily Average: 29.8 inHg on Feb 21

Minimum Value: 28.4 inHg on Feb 25 09:00

Minimum Daily Average: 28.4 inHg on Feb 25

Maximum Diurnal Average: 29.0 inHg at hour 10

Minimum Diurnal Average: 29.0 inHg at hour 16

Monthly Average: 29.02 inHg

Percentiles: P_1 = 28.4 P_{10} = 28.7 Q_1 = 28.8 Median = 29.0 Q_3 = 29.2 P_{90} = 29.4 P_{99} = 30.0

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

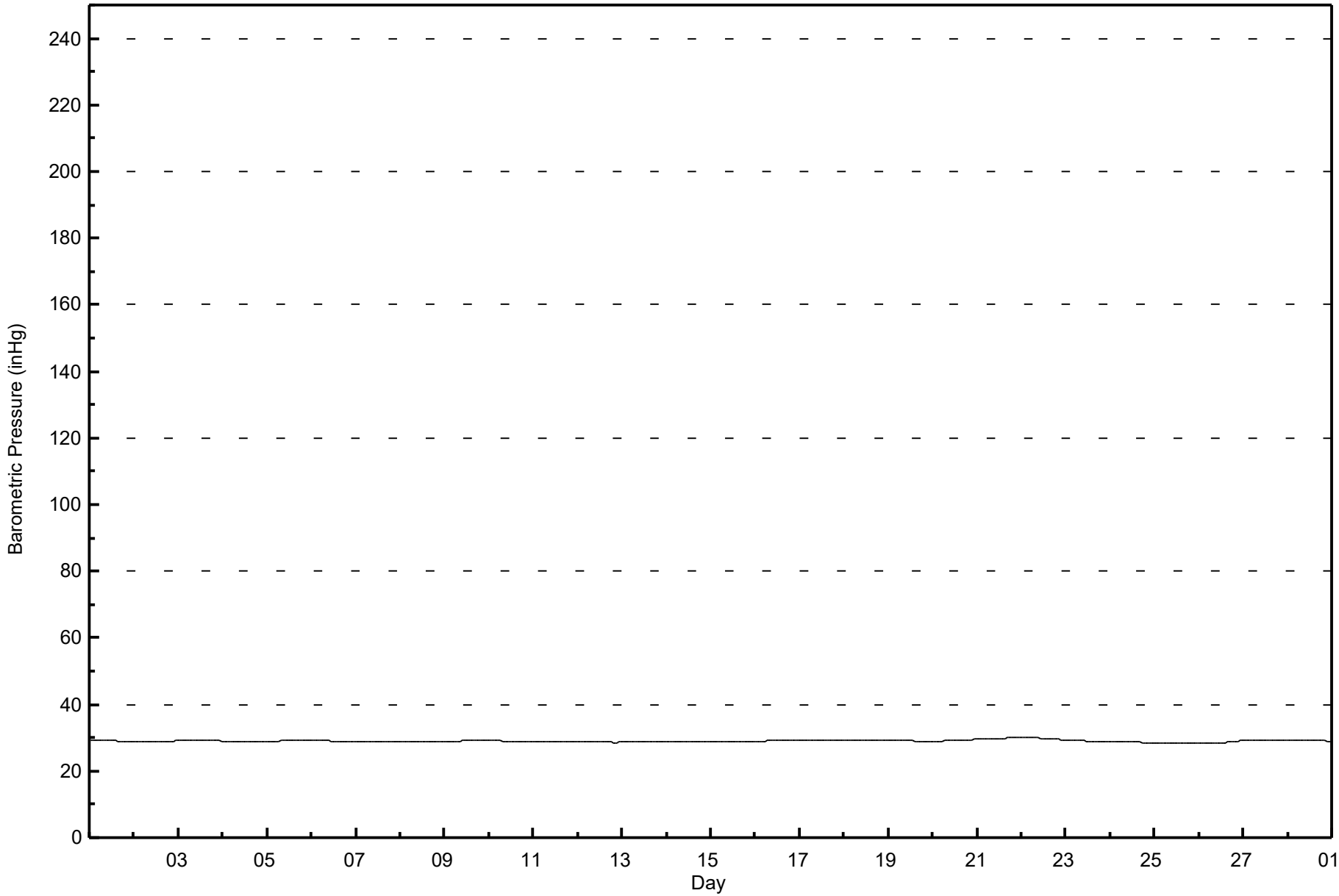
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.2
2-Feb	29.0	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.1	28.9	29.1
3-Feb	29.1	29.1	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.1	29.1	29.0	29.0	29.2	29.3
4-Feb	28.9	28.8	28.8	28.8	28.8	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.8	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.8	28.9
5-Feb	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.1	29.3
6-Feb	29.3	29.3	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.8	28.8	28.8	29.0	29.3
7-Feb	28.8	28.8	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0
8-Feb	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.0	28.8	29.0
9-Feb	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.1
10-Feb	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.9	29.1
11-Feb	28.8	28.8	28.8	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.8
12-Feb	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.8	28.8	28.8	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.6	28.6	28.6	28.6	28.6	28.6	28.7	28.8
13-Feb	28.6	28.6	28.6	28.6	28.6	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.8	28.8	28.8	28.8	28.8	28.8	28.7	28.8
14-Feb	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.7	28.8	28.8	28.8	28.8	28.7	28.7	28.7	28.8	28.8
15-Feb	28.7	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	28.8	29.0
16-Feb	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.1	29.2
17-Feb	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.3	29.4
18-Feb	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
19-Feb	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.3
20-Feb	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.4	29.4	29.5	29.5	29.2	29.5
21-Feb	29.5	29.6	29.6	29.6	29.7	29.7	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9	30.0	30.0	30.0	30.0	29.8	30.0
22-Feb	30.0	30.0	30.0	30.0	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.8	29.8	29.7	29.7	29.7	29.6	29.6	29.6	29.5	29.5	29.4	29.4	29.4	29.8	30.0
23-Feb	29.3	29.3	29.3	29.2	29.2	29.2	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9	28.9	28.8	28.8	28.8	28.8	29.0	29.3
24-Feb	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.6	28.6	28.6	28.6	28.6	28.6	28.5	28.5	28.5	28.5	28.7	28.8
25-Feb	28.5	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.5	28.5	28.5	28.5	28.5	28.4	28.5
26-Feb	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.4	28.4	28.4	28.4	28.5	28.5	28.6	28.6	28.7	28.7	28.8	28.9	28.9	29.0	29.0	29.1	28.6	29.1
27-Feb	29.1	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.3	29.4
28-Feb	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.3	29.3	29.3	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.2	29.4
	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	Diurnal Average	
	30.0	30.0	30.0	30.0	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.8	29.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9	30.0	30.0	30.0	30.0	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Barometric Pressure (BP) - inHg

Barge Landing - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 20m (WS20) - km/h

Barge Landing - February 2026

Maximum Speed: 33 km/h on Feb 18 07:00

Maximum Daily Speed Average: 26.7 km/h on Feb 17

Minimum Speed Value: 1 km/h on Feb 3 18:00

Minimum Daily Speed Average: 0.2 km/h on Feb 14

Maximum Diurnal Speed Average: 5.9 km/h at hour 20

Minimum Diurnal Speed Average: 2.3 km/h at hour 13

Monthly Average Velocity: 3.7 km/h 24.9 deg

Percentiles: $P_1 = 2$ $P_{10} = 4$ $Q_1 = 6$ Median = 9 $Q_3 = 13$ $P_{90} = 18$ $P_{99} = 32$

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ENE9	E9	E7	ESE8	SE8	SE9	SE9	SE9	ESE10	SE9	SSE10	SSE15	SE14	SSE13	SE12	SSE11	SSE11	SE11	SE10	SE9	SE10	SSE10	SE8	SSE8	SE9.3	SSE15
2-Feb	SSE9	SSE9	S9	SSE12	SSE12	SSE12	SSE8	SSE7	SSE6	SSE8	SSE11	SSE8	S8	S9	S8	SSW6	SSW2	E3	NE4	N5	N7	NNE9	NNE7	NNE6	SSE4.5	SSE12
3-Feb	N10	NNE11	NNE9	NNE7	NNE5	NNE8	NE9	NE10	NE9	NNE7	NE7	NNE5	NNE4	ENE5	NW3	N3	NE3	E1	SE2	NNW3	E4	SSE1	SSE9	SSE11	NE4.1	SSE11
4-Feb	SSE13	SSE16	SSE19	S17	SSW7	SW5	SSW6	WSW7	SW8	SSE10	SE7	SW9	WSW9	SW10	SW13	WSW13	WNW12	N20	N18	N16	N15	N14	NNE16	N14	WSW1.8	N20
5-Feb	NNE18	NNE18	N17	NNE21	NNE19	NNE17	N20	N20	N21	NNE17	NNE13	NNE11	NE9	NE7	NE9	NE7	ENE9	ENE10	ENE7	NE10	NE9	NE7	NNE6	NE6	NNE12.3	NNE21
6-Feb	NNE7	N4	NNW5	NNW5	NNW5	NW6	NNW7	NNW6	NNW5	NNW5	NW5	NNW4	WNW3	W3	SW2	SE9	SE6	SE6	SE4	SSE8	WSW5	NW3	NNW2	SE6	NNW1.4	SE9
7-Feb	NNE4	N3	N4	N8	NNE15	NNE15	NNE13	NNE16	NNE17	NNE15	NNE15	NNE15	NNE14	NNE14	NNE13	NNE12	NNE10	NNE8	NNE11	NNE14	NNE14	NNE10	N7	NNW8	NNE11.3	NNE17
8-Feb	NNW8	NNW8	NNW6	NW6	NNW7	NNW6	NW4	NW5	NNW4	NNW7	NW8	N8	N12	N11	NNE11	N10	NNE8	NNE6	NE6	NE6	NE7	ENE7	ENE4	E5	N5.9	N12
9-Feb	ENE6	ENE6	ENE7	E7	E7	ENE6	NNE5	NE8	NE9	NE8	NNE10	N12	N12	NNE14	NNE14	NNE12	N12	N11	NNE11	NNE12	NNE12	NNE10	NNE10	N7	NNE8.5	NNE14
10-Feb	N8	NNW6	NNW7	NW8	NW6	NW5	NW3	WNW2	WSW2	WSW3	SW4	SSW3	SW7	SSW7	SSW8	SSW8	SSW5	SW5	SW4	WSW3	S5	SSW7	SSW8	SSW8	WSW3.1	SSW8
11-Feb	SSW9	SSE11	SSE11	SE7	ESE8	S8	S7	S10	S10	SSE8	SSW3	SSW3	S5	S8	SSW8	S10	S9	S7	SSE8	SSE10	SSE6	NNW8	NNW5	NW4	S5.9	SSE11
12-Feb	S3	SSE9	S8	SW8	SSW6	SW9	S6	SSW12	SSW11	S10	SSE10	S14	S12	S14	SSE9	SSE13	S13	SSE16	SSE17	SSE13	S17	SW18	SW21	WSW22	S10.6	WSW22
13-Feb	SW17	SW20	WSW23	WSW21	WSW26	WSW26	W20	WSW9	SSW9	SW13	WSW12	SW11	SW13	SW12	SW13	SW13	SW10	SW7	SSW6	WNW5	NNW9	NNW6	NW5	WNW3	WSW11.5	WSW26
14-Feb	S6	S8	S9	S11	SSE14	SSE12	S9	SSW6	SW5	NW4	NNW4	NNE5	E4	NE4	NNW3	N3	N7	NNW8	N6	N5	NNW7	NNW8	NNW12	NE5	WSW0.2	SSE14
15-Feb	NNE12	NNE16	NNE12	NNE14	NNE13	NNE11	NNE13	NNE12	NNE13	NNE14	NNE13	NNE11	NNE10	NNE8	NNE9	NE9	NE11	NE14	NE14	NE14	NNE12	NE12	NNE6	N7	NNE11.5	NNE16
16-Feb	N7	N6	N4	W2	NNW1	NW3	NNW6	NW3	NNW2	NNW3	NNW2	NNE7	N7	NNE10	N13	N11	N12	NNE16	N15	NNE13	N18	N18	N15	N15	N8.6	N18
17-Feb	NNE18	NNE19	N21	NNE21	NNE19	NNE19	NNE26	NNE25	NNE21	NNE28	NNE29	N30	N30	N31	N32	N32	N32	N30	N29	N31	N28	N32	N30	N31	N26.7	N32
18-Feb	N33	N29	N32	N28	N25	N28	N33	N32	N28	N29	N29	N26	N24	N22	N22	N18	N13	N11	NNW9	NNW6	WSW2	S4	SSW5	SW5	N19.2	N33
19-Feb	SSW6	S8	SSE8	SSE9	SSE10	SSE8	SE8	SSE9	SSE10	SSE12	S15	S15	SSE14	SSE13	SSE15	SSE11	SSE11	SSE10	SSE12	SSE12	SSE12	SSE11	SSE11	SSE10	SSE10.7	S15
20-Feb	SE11	SE12	SSE13	SSE9	SSE8	SSE10	SSE6	SSE10	SSE6	SSE6	SW4	S4	WSW3	NNE4	NNE6	N8	N10	N14	N16	N17	N12	N10	N10	N13	ENE2.5	N17
21-Feb	N14	N12	N13	NNE9	NE4	NE6	NE5	NNE4	NE6	ENE4	W1	N5	NNE6	NNE9	NNE16	NNE17	NNE18	N18	N17	N16	NNE21	NNE18	N16	N17	NNE11.0	NNE21
22-Feb	NNE14	NNE15	NNE14	N13	N14	N15	N15	N13	N12	N10	N8	NNW8	N7	N8	NNW8	NW8	NNW6	NNW7	NNW7	NNW7	NNE5	ENE5	ESE4	ESE3	N8.7	N15
23-Feb	E2	NE2	ENE1	S4	SE2	SE4	SE4	SE4	E4	S4	SSW7	S2	E4	NE7	ENE6	ENE7	NE8	ENE7	ENE5	E7	ENE3	NNW8	NNW8	NNW4	ENE2.4	NNW8
24-Feb	S3	SSE8	SE8	SE6	SE8	SSE8	SSE8	SSE6	SSE9	SSE7	SSE8	SSE8	SSE8	SSE10	SSE11	SSE11	SSE11	SE10	SE10	SE8	SE12	SE10	SE8	SSE3	SSE8.0	SE12
25-Feb	NW4	N6	NNW8	NNW7	NNW7	NNW6	WNW2	S3	S4	S5	SSE9	SSE11	S11	S8	SSE6	WSW1	N5	N9	N12	NNE16	N16	NNE15	NNE16	N16	N3.5	N16
26-Feb	NNE18	NNE17	NNE16	NNE18	N16	N16	N12	N13	NNE18	NNE22	N17	N16	N18	N28	N27	N27	N25	N22	N25	N24	N23	N22	N20	N21	N19.8	N28
27-Feb	N21	N18	N19	NNE17	NNE16	NNE13	NNE10	NNE10	NNE9	NE9	NNE11	NE8	NE9	NE9	NE8	NNE8	NE5	NNE5	NE9	NE8	NNE7	N4	N4	NW5	NNE9.7	N21
28-Feb	WNW2	SW5	S8	S7	SSE7	S7	SSE9	SSE9	SSE9	SSE12	SSE11	S13	S14	SSE15	SSE16	SSE17	SSE16	SSE12	SSE11	SSE12	SSE12	SSE11	SSE15	WSW4	SSE10.2	SSE17
	NNE4.7	NNE3.8	NNE3.4	NNE3.1	NNE2.9	NNE3.0	NNE3.6	NNE3.3	NE3.3	NE3.3	NNE2.6	NNE2.4	NE2.3	NE3.1	NNE3.2	NNE3.1	NNE3.8	NNE5.2	NNE5.5	NNE5.9	NNE5.5	NNE5.4	N4.3	N4.2	Diurnal Average	
	N33	N29	N32	N28	WSW26	N28	N33	N32	N28	N29	NNE29	N30	N30	N31	N32	N32	N32	N30	N29	N31	N28	N32	N30	N31	Diurnal Maximum	

All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 9 km/h on Feb 17 18:00

Minimum Value: 0 km/h on Feb 18 22:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 2 Q_3 = 3 P_{90} = 5 P_{99} = 8

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

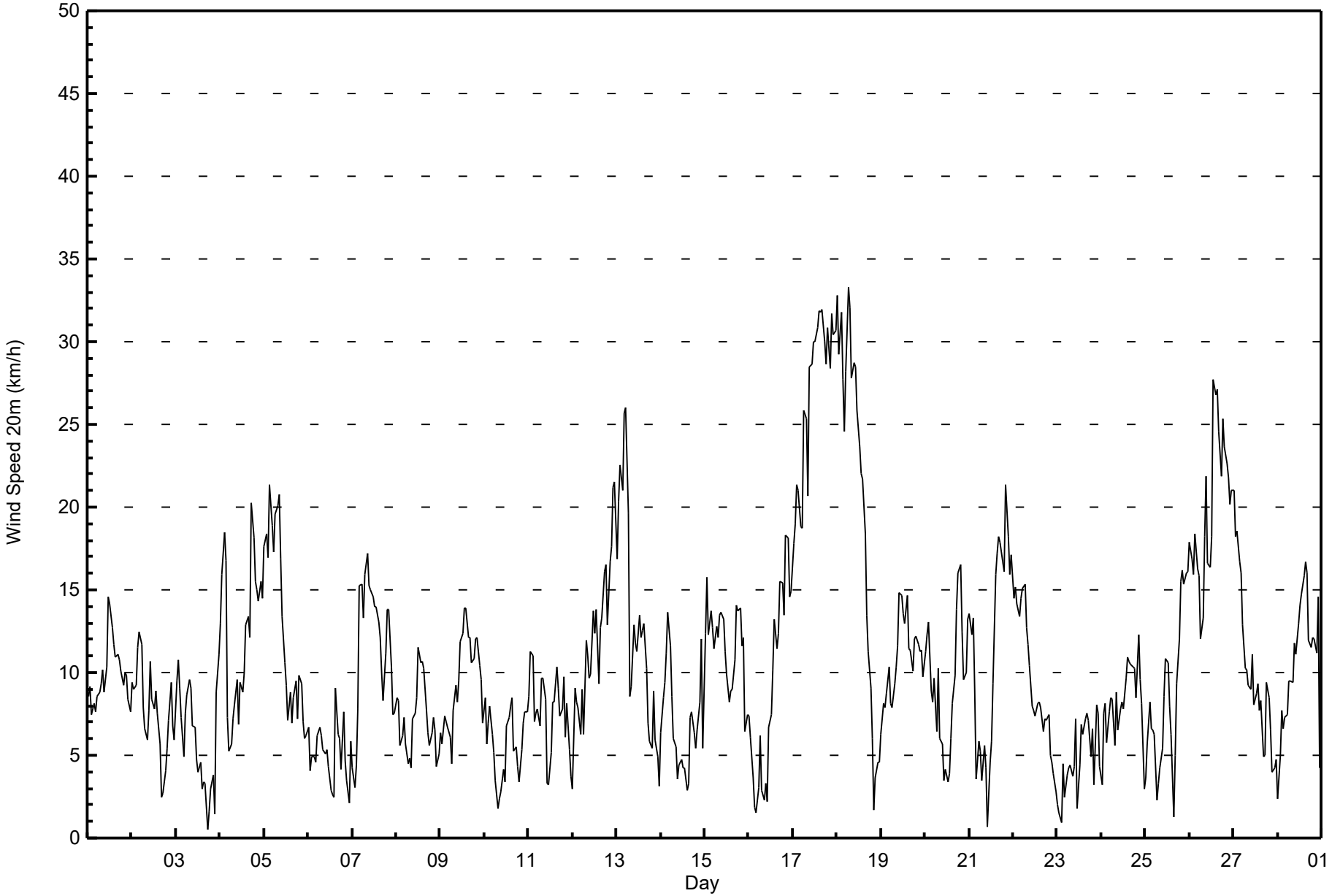
Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	2	1	1	2	1	1	2	2	2	3	4	3	3	3	2	3	2	3	2	2	2	1	1	4
2-Feb	2	2	2	2	3	2	2	1	1	2	2	2	2	2	2	2	1	1	1	1	2	2	2	1	3
3-Feb	3	4	3	2	1	2	2	2	2	2	2	1	1	1	1	1	2	1	1	1	1	1	3	3	4
4-Feb	3	4	5	4	3	3	2	3	3	2	1	3	2	2	2	3	4	5	5	4	4	4	4	4	5
5-Feb	4	4	5	5	5	4	5	6	5	4	3	3	3	2	2	2	2	2	2	2	2	2	1	2	6
6-Feb	2	1	1	1	1	1	1	2	1	2	1	1	2	1	2	2	2	1	1	2	1	1	1	2	2
7-Feb	2	1	2	2	4	3	3	4	5	4	4	4	3	4	3	3	2	2	3	3	3	3	2	2	5
8-Feb	2	2	2	2	2	1	1	1	2	2	2	2	3	3	2	2	2	2	2	1	1	1	1	1	3
9-Feb	1	2	1	1	1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	3
10-Feb	2	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2	3	3	1	1	2	1	1	1	3
11-Feb	2	1	1	4	3	3	1	2	2	2	1	2	1	4	3	3	2	1	1	2	3	2	1	2	4
12-Feb	2	2	2	2	2	3	1	3	2	2	2	3	3	3	2	2	3	2	3	4	3	4	4	5	5
13-Feb	4	4	5	5	6	6	6	4	3	3	3	3	3	3	3	3	2	2	2	3	3	1	2	1	6
14-Feb	2	1	2	2	2	2	3	2	2	1	1	1	1	1	2	1	3	2	2	1	2	2	3	2	3
15-Feb	3	3	3	3	4	3	3	3	4	3	4	3	3	2	2	3	2	2	2	2	2	3	2	1	4
16-Feb	2	3	1	2	1	1	1	1	1	1	1	2	2	2	3	3	4	3	4	3	5	5	4	4	5
17-Feb	5	5	6	5	5	5	6	7	6	7	8	8	7	8	9	8	9	9	9	8	7	8	8	8	9
18-Feb	9	8	8	8	7	8	8	8	8	8	7	6	6	5	5	5	4	4	2	2	1	0	1	1	9
19-Feb	1	1	1	1	2	2	1	1	2	3	3	3	3	4	4	3	2	1	2	2	1	1	2	1	4
20-Feb	1	2	2	3	1	2	1	2	3	2	1	2	2	1	2	2	2	3	5	4	3	2	2	3	5
21-Feb	3	3	3	4	2	3	2	1	2	1	1	2	2	2	4	4	4	5	4	4	5	5	4	4	5
22-Feb	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	2	1	1	1	1	1	4
23-Feb	1	1	1	2	1	1	1	1	1	2	2	1	1	2	1	2	2	1	1	1	1	1	1	1	2
24-Feb	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	2	2	1	1	1	1	1	1	1	3
25-Feb	1	1	1	1	1	1	1	1	1	2	2	3	2	2	2	1	1	2	3	4	4	4	4	4	4
26-Feb	4	4	4	5	4	4	3	3	4	5	4	5	5	7	7	7	7	7	7	8	6	7	6	6	8
27-Feb	7	5	5	5	4	3	2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	1	1	1	7
28-Feb	1	1	2	2	2	1	1	1	2	3	2	3	3	3	4	3	3	2	2	1	1	2	2	1	4
	9	8	8	8	7	8	8	8	8	8	8	8	7	8	9	8	9	9	9	8	7	8	8	8	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 20m (WS20) - km/h

Barge Landing - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	130	19.35	19.35
6 - 11	307	45.68	65.03
12 - 19	173	25.74	90.77
20 - 28	43	6.40	97.17
29 - 38	19	2.83	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 20m (WS20) - km/h

Barge Landing - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	12	10	8	7	8	2	6	2	12	6	9	8	3	6	13	18	130
6 - 11	27	41	30	12	5	3	26	68	26	18	9	3	0	0	5	34	307
12 - 19	48	63	4	0	0	0	4	31	10	1	8	2	0	1	0	1	173
20 - 28	26	9	0	0	0	0	0	0	0	0	2	5	1	0	0	0	43
29 - 38	18	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	131	124	42	19	13	5	36	101	48	25	28	18	4	7	18	53	672

Total Number of Valid Hours: 672

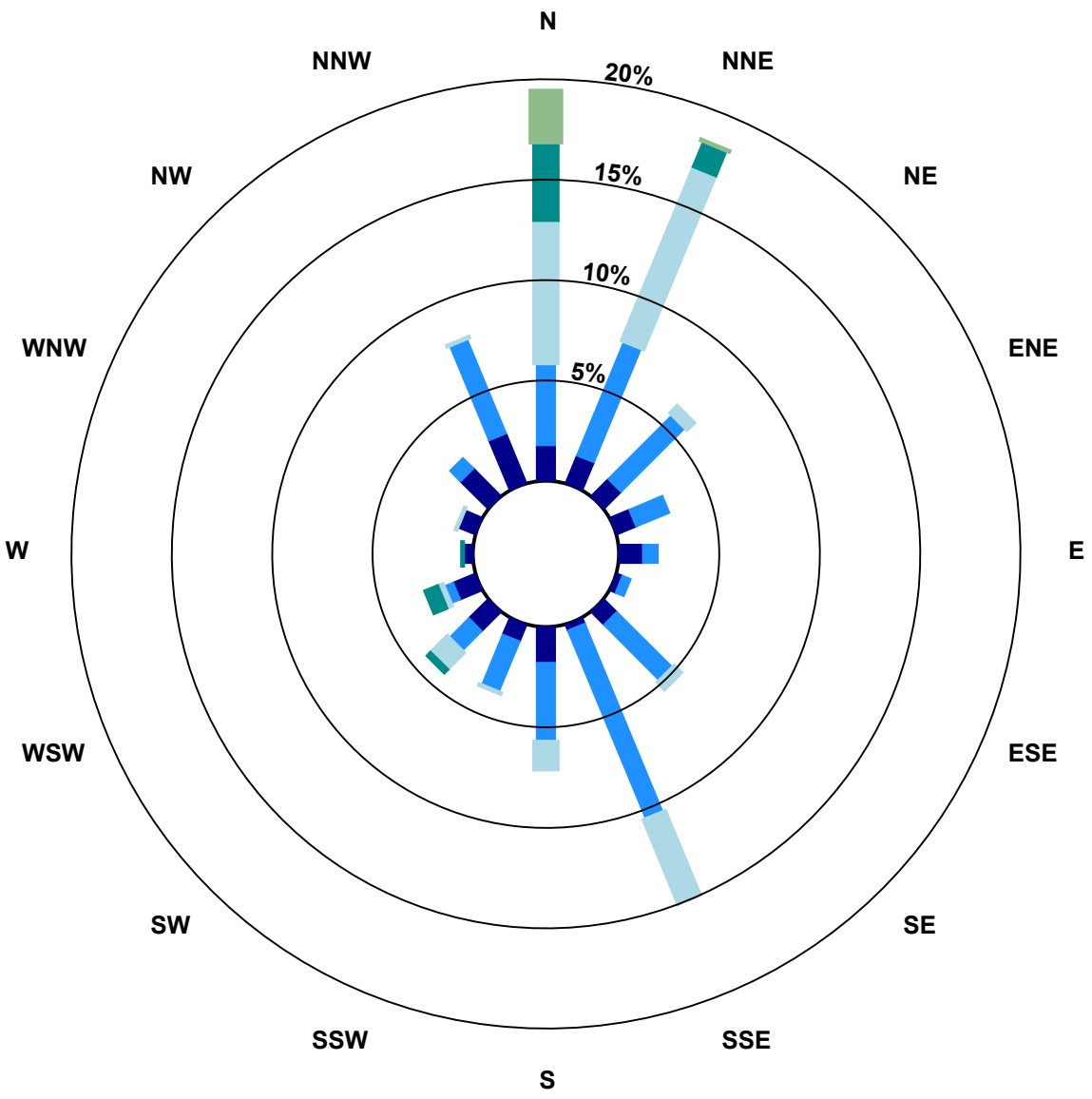
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 20m (WS20) - km/h

Barge Landing



Classes (km/h)

0 - 5

6 - 11

12 - 19

20 - 28

29 - 38

> 38

Total Number of Valid Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 20m (WD20) - deg

Barge Landing - February 2026

Direction of Maximum Speed: 8 deg on Feb 18 07:00
Direction of Maximum Daily Speed Average: 10.8 deg on Feb 17

Direction of Minimum Speed: 81 deg on Feb 3 18:00
Direction of Minimum Daily Speed Average: 0.2 deg on Feb 14

Monthly Average Direction: 24.9 deg

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	76	84	95	111	144	128	131	126	123	142	148	153	143	150	145	157	150	132	144	145	141	147	138	147	135.8
2-Feb	162	168	171	168	168	159	155	154	158	160	166	167	180	171	188	213	199	87	36	10	349	20	14	16	158.9
3-Feb	8	21	26	28	23	32	48	48	38	27	47	30	30	76	311	358	42	81	132	333	79	152	157	165	41.7
4-Feb	165	157	166	171	196	236	197	245	224	156	146	235	245	225	235	237	283	6	11	360	360	1	14	9	248.1
5-Feb	19	20	9	18	15	18	4	4	9	15	17	23	41	39	45	43	61	63	58	38	41	40	23	35	23.2
6-Feb	20	357	327	338	329	326	332	331	332	332	324	331	289	268	230	146	144	129	138	152	248	317	347	127	333.7
7-Feb	28	350	10	351	23	18	30	19	24	27	24	33	25	28	31	22	19	13	19	16	16	12	352	337	19.3
8-Feb	338	337	336	325	331	329	308	326	328	343	324	350	10	2	14	9	18	14	48	43	53	64	73	93	1.9
9-Feb	73	75	75	85	90	67	18	53	38	36	20	9	6	13	14	13	7	1	12	14	17	19	14	352	25.1
10-Feb	349	345	330	323	317	324	325	302	252	240	225	212	215	200	193	195	207	234	229	257	185	199	207	210	242.3
11-Feb	192	166	154	138	117	180	183	184	174	165	204	200	190	180	192	191	176	189	168	152	165	330	334	316	175.8
12-Feb	189	157	173	226	203	221	175	208	201	179	164	170	184	177	166	154	172	151	150	164	186	222	233	237	187.5
13-Feb	226	229	238	242	249	256	261	245	213	231	244	235	222	224	221	228	231	229	202	296	327	344	321	285	242.1
14-Feb	186	189	186	169	168	164	185	193	217	312	338	18	80	42	336	3	7	343	356	355	334	334	342	47	241.3
15-Feb	17	28	21	15	15	27	24	28	28	33	32	29	32	19	24	38	37	41	42	42	32	48	25	5	29.0
16-Feb	6	6	356	263	335	324	344	312	327	337	348	24	10	12	7	7	5	12	7	12	3	3	360	5	3.1
17-Feb	14	13	9	12	19	16	18	17	16	17	13	11	7	8	7	8	7	8	10	7	8	11	8	9	10.8
18-Feb	11	11	11	10	7	7	8	10	8	7	9	10	10	9	11	9	0	352	344	341	247	191	192	223	7.2
19-Feb	197	183	160	160	150	164	140	150	159	159	169	170	167	162	161	160	163	148	152	158	156	150	163	161	160.6
20-Feb	140	144	151	150	151	148	168	149	165	160	233	182	255	27	32	10	4	9	5	5	356	351	9	10	59.1
21-Feb	8	7	7	19	39	49	47	33	48	65	266	3	16	27	15	21	18	5	360	11	17	16	7	9	15.3
22-Feb	12	17	14	4	4	4	6	2	6	8	358	342	359	351	337	323	330	329	337	342	25	74	113	115	2.0
23-Feb	97	56	67	170	142	136	131	138	100	172	203	171	94	51	65	59	55	61	59	89	66	334	330	339	77.3
24-Feb	185	159	140	137	138	151	160	155	160	162	160	158	165	167	166	158	154	130	128	125	125	139	141	156	149.2
25-Feb	326	353	342	342	328	344	298	178	174	185	164	165	171	172	165	244	1	353	10	13	7	15	12	11	7.3
26-Feb	15	14	24	20	11	6	2	0	13	12	6	4	358	10	9	9	2	352	354	357	356	357	3	6	5.5
27-Feb	7	7	10	15	20	22	27	28	31	39	28	34	48	53	37	24	43	13	48	50	28	357	10	326	23.6
28-Feb	297	226	174	176	162	175	154	153	159	167	167	172	171	164	161	162	165	166	158	167	163	168	166	250	167.4
	18.5	30.1	29.8	24.5	26.0	17.5	21.3	28.3	35.5	38.5	30.4	33.4	35.2	40.7	30.4	29.3	24.4	24.0	29.9	25.6	21.5	13.8	8.9	4.4	
	Diurnal Average																								

All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 94 deg on Feb 3 18:00

Minimum Value: 4 deg on Feb 20 01:00

Percentiles: P_1 = 6 P_{10} = 10 Q_1 = 13 Median = 15 Q_3 = 19 P_{90} = 31 P_{99} = 68

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

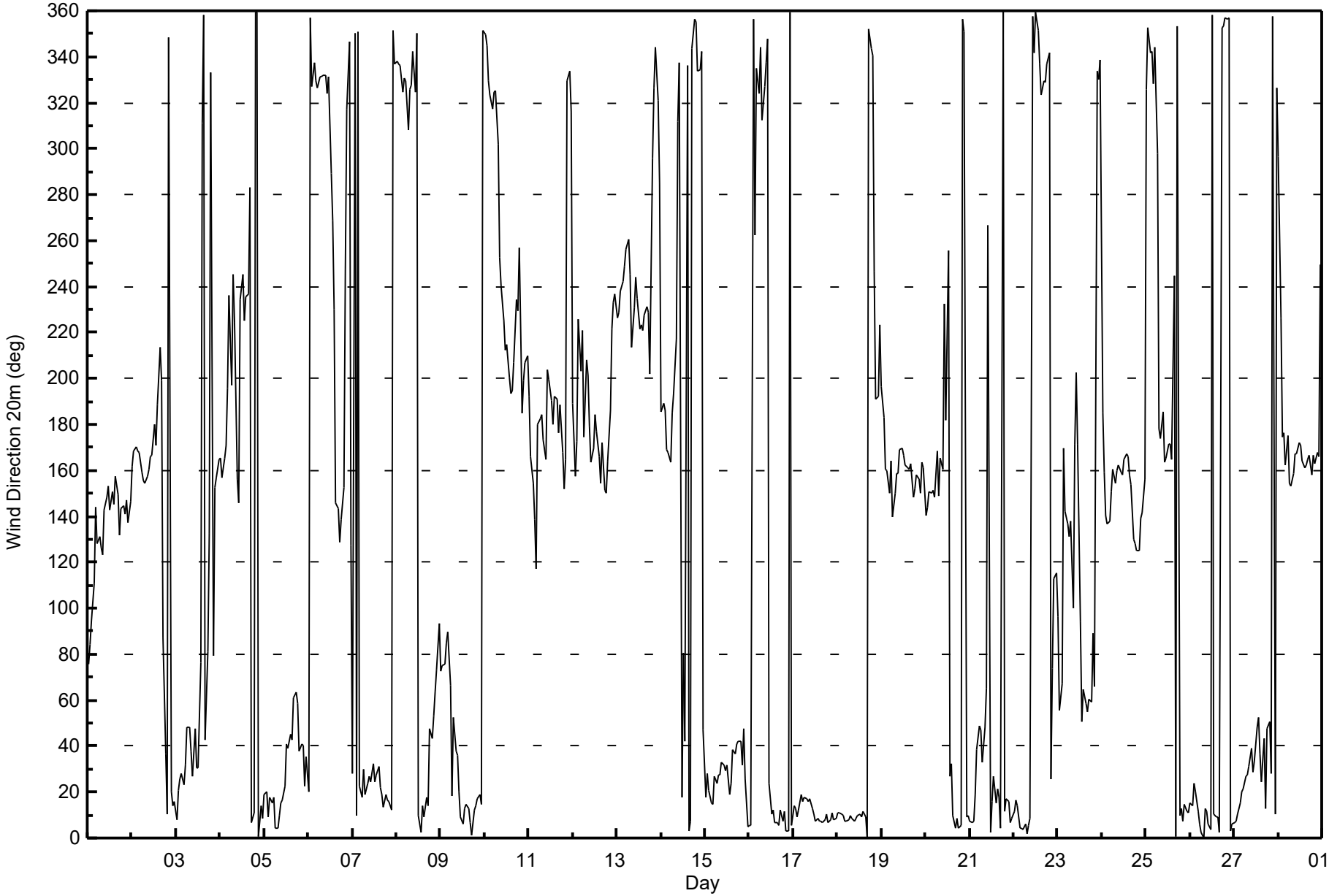
Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	14	14	12	21	18	8	9	12	10	14	14	13	16	17	22	15	17	12	11	11	11	10	10	12	22
2-Feb	14	15	14	13	13	11	11	11	12	13	16	18	19	19	26	19	36	30	25	15	21	14	18	13	36
3-Feb	16	13	18	14	16	16	16	14	17	16	19	21	27	25	72	33	19	94	60	30	20	75	17	15	94
4-Feb	15	13	13	15	41	50	28	28	27	17	17	27	21	15	12	11	38	18	15	16	17	16	13	15	50
5-Feb	12	13	16	13	15	12	17	18	14	14	14	17	20	21	16	21	16	15	22	12	12	14	17	13	22
6-Feb	13	16	17	17	17	14	13	15	15	18	18	33	46	47	60	14	18	12	13	10	39	31	63	22	63
7-Feb	40	43	34	17	12	12	15	12	13	12	12	14	12	14	14	13	11	19	11	11	12	14	17	15	43
8-Feb	15	15	20	17	13	16	15	19	31	18	16	21	18	17	14	14	16	14	17	21	17	13	21	15	31
9-Feb	11	12	10	12	13	26	29	28	19	18	17	14	15	14	12	14	14	17	14	13	11	12	12	17	29
10-Feb	12	17	13	11	15	15	20	29	15	26	19	42	19	33	28	27	31	23	19	34	27	12	9	8	42
11-Feb	17	15	6	45	17	25	15	15	11	8	40	36	26	23	22	18	13	9	17	9	54	10	22	48	54
12-Feb	46	14	27	20	23	20	23	17	14	16	15	13	19	18	15	10	17	8	9	16	14	19	13	13	46
13-Feb	16	13	13	13	13	14	15	46	16	16	15	16	15	15	15	16	17	28	38	61	15	11	13	29	61
14-Feb	25	10	16	9	7	8	18	41	22	38	19	29	35	41	77	32	24	16	20	23	10	10	16	44	77
15-Feb	13	13	17	12	14	13	13	13	13	15	14	16	16	19	18	17	10	7	9	8	11	10	20	13	20
16-Feb	10	14	24	55	32	16	13	21	34	27	58	22	19	14	16	17	15	13	15	15	17	14	17	15	58
17-Feb	13	14	15	14	12	13	12	12	14	13	15	15	17	17	17	16	17	17	16	16	16	16	16	16	17
18-Feb	16	16	16	16	16	17	16	16	17	17	17	15	14	15	15	16	17	16	13	9	49	22	27	21	49
19-Feb	16	12	8	5	10	24	6	8	12	15	14	15	17	20	16	16	12	9	10	8	8	5	11	12	24
20-Feb	4	5	6	9	9	6	13	11	26	32	30	40	53	33	24	15	14	14	16	15	16	14	14	13	53
21-Feb	15	15	15	19	67	41	34	40	15	27	94	36	24	18	16	13	14	15	16	16	12	13	14	14	94
22-Feb	15	13	13	16	15	15	13	15	14	15	22	20	23	20	25	19	18	11	13	11	28	18	14	29	29
23-Feb	35	53	50	25	50	25	21	10	19	46	26	70	25	18	12	10	13	12	12	7	56	6	8	18	70
24-Feb	38	7	11	11	12	4	8	11	6	14	15	25	26	32	21	15	15	7	5	5	6	10	14	31	38
25-Feb	61	9	7	11	13	9	42	27	20	24	18	23	22	21	28	81	30	14	15	14	14	13	14	13	81
26-Feb	13	14	11	11	14	16	17	16	12	14	16	15	17	15	17	17	19	17	17	18	16	18	17	17	19
27-Feb	18	17	15	13	13	12	12	11	16	18	15	24	19	17	22	14	31	19	10	8	23	20	20	18	31
28-Feb	25	10	13	10	9	10	8	8	14	15	16	16	16	16	15	13	13	12	6	8	7	7	12	40	40
	61	53	50	55	67	50	42	46	34	46	94	70	53	47	77	81	38	94	60	61	56	75	63	48	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 20m (WD20) - deg

Barge Landing - February 2026



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS11
LOWER CAMP
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - LOWER CAMP (AMS11)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	640	32	32	100	19.5	0	2.1	0
H2S (ppb) Average	638	34	34	100	2.7	0	1.1	0
THC (ppm) Average	637	32	35	99.55	3.6	-	2.7	-
CH4(ppm) Average	637	32	35	99.55	3.4	-	2.6	-
NMHC(ppm) Average	637	32	35	99.55	0.21	-	0.018	-
Temperature (C) Average	672	0	0	100	8.8	-	1.8	-
Relative Humidity (%) Average	672	0	0	100	97.1	-	85.1	-
Barometric Pressure (inHg) Average	672	0	0	100	30.2	-	30	-
Wind Speed 10 m (km/h) Average	656	0	16	97.62	28	-	20	-
Wind Direction 10 m (deg) Average	656	0	16	97.62	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - LOWER CAMP (AMS11)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	640	0.58	1.7	-	0	0	0.1	0.2	0.4	1	19.5
H2S (ppb) Average	638	0.33	0.3	-	0	0.1	0.1	0.2	0.4	0.7	2.7
THC (ppm) Average	637	2.21	0.2	-	2	2.1	2.1	2.1	2.3	2.5	3.6
CH4(ppm) Average	637	2.2	0.2	-	2	2.1	2.1	2.1	2.2	2.5	3.4
NMHC(ppm) Average	637	0.002	0.013	-	0	0	0	0	0	0	0.21
Temperature 2 m (C) Average	672	-15.22	9.8	-	-37.1	-28.8	-23	-14.4	-8.6	-2.8	8.8
Relative Humidity (%) Average	672	74.15	10	-	41.1	61.4	67.7	75.2	81.6	86.3	97.1
Barometric Pressure (inHg) Average	672	29.21	0.3	-	28.6	28.9	29	29.2	29.4	29.6	30.2
Wind Speed 10 m (km/h) Average	656	9.8	6	-	0	3	5	9	13	19	28
Wind Direction 10 m (deg) Average	656	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - LOWER CAMP (AMS11)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
THC/NMHC/CH4	25 Feb 2026 18:00	25 Feb 2026 20:00	3	Maintenance - replaced support gas cylinder
Wind Speed, Wind Direction	02 Feb 2026 18:00	02 Feb 2026 18:00	1	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	11 Feb 2026 19:00	11 Feb 2026 19:00	1	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	18 Feb 2026 23:00	19 Feb 2026 00:00	2	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	23 Feb 2026 21:00	23 Feb 2026 22:00	2	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	24 Feb 2026 00:00	24 Feb 2026 06:00	7	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	25 Feb 2026 08:00	25 Feb 2026 09:00	2	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	28 Feb 2026 02:00	28 Feb 2026 02:00	1	Flat line in sensor output signal - Sensor frozen

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Lower Camp - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 19.5 ppb on Feb 13 17:00

Maximum Daily Average: 2.1 ppb on Feb 4

Minimum Value: 0.0 ppb on Feb 1 19:00

Minimum Daily Average: 0.0 ppb on Feb 5

Maximum Diurnal Average: 1.3 ppb at hour 17

Minimum Diurnal Average: 0.2 ppb at hour 5

Monthly Average: 0.58 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.2 Q_3 = 0.4 P_{90} = 1.0 P_{99} = 9.7

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	Z	0.0	0.0	0.2	1.9	1.8	2.1	0.5	0.6	0.5	0.5	0.4	1.5	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.1	0.0	1.8	0.6	2.1
2-Feb	2.8	16.8	Z	1.2	0.4	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.4	0.5	1.0	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.4	0.3	1.2	16.8
3-Feb	0.3	0.3	0.3	Z	0.4	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.6	0.7	0.9	0.8	0.3	0.5	0.5	4.6	4.0	9.0	1.1	9.0
4-Feb	6.1	10.1	13.5	12.3	Z	1.1	0.7	0.3	0.3	0.4	0.5	0.4	0.7	0.6	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	2.1	13.5
5-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
6-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.4
7-Feb	0.1	Z	0.1	0.1	0.2	0.6	0.3	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.6
8-Feb	0.0	0.1	Z	0.0	0.1	0.1	0.2	0.1	0.2	0.3	0.3	0.2	0.2	0.3	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.3
9-Feb	0.0	0.2	0.1	Z	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.3
10-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.3	0.2	0.3	0.2	0.3	0.5	0.4	0.9	1.1	1.7	1.1	0.3	0.8	1.0	0.2	0.2	0.0	0.1	0.5	1.7
11-Feb	0.2	0.2	0.2	0.1	0.0	Z	0.1	0.0	0.1	0.1	0.1	0.2	C	C	C	C	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.3
12-Feb	Z	0.1	0.3	0.3	0.6	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.4	0.2	0.1	0.1	0.1	0.1	0.0	0.2	1.1	0.2	0.2	1.1
13-Feb	7.6	Z	0.2	0.0	0.0	0.0	0.0	0.0	3.8	0.1	0.1	0.1	0.0	0.2	0.4	8.3	19.5	5.4	0.3	0.2	0.1	0.6	0.1	0.0	2.0	19.5
14-Feb	0.1	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.4	2.6	3.7	4.9	2.4	2.3	1.6	1.7	1.2	0.9	0.7	0.2	1.0	4.9
15-Feb	0.2	0.2	0.1	Z	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
16-Feb	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.2
17-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	Z	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1
19-Feb	0.1	Z	0.2	0.3	0.3	0.6	0.5	0.9	1.0	0.5	0.3	0.3	0.4	0.3	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.3	1.0
20-Feb	0.1	0.1	Z	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.6	6.1	10.7	11.6	5.0	1.7	0.7	0.6	1.1	1.1	1.2	1.4	1.9	11.6
21-Feb	1.2	0.9	0.8	Z	0.7	0.7	0.6	0.5	0.4	0.6	0.6	0.6	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.4	1.2
22-Feb	0.2	0.2	0.1	0.1	Z	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.3
23-Feb	0.2	0.2	0.1	0.1	0.2	Z	0.2	3.1	1.8	1.1	1.0	7.0	5.9	3.9	2.2	2.4	4.5	2.6	1.1	0.4	0.2	0.2	0.1	0.1	1.7	7.0
24-Feb	Z	0.2	0.3	0.4	0.4	0.5	0.3	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.4	0.3	0.2	0.2	0.3	0.1	0.2	0.2	0.3	0.1	0.3	0.5
25-Feb	0.1	Z	0.2	0.2	0.1	0.1	0.2	0.1	0.8	2.1	0.7	0.5	0.6	0.3	0.4	0.6	0.3	1.6	4.5	4.2	2.1	0.8	0.6	0.6	0.9	4.5
26-Feb	0.4	0.5	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5
27-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.2	0.2	1.7	1.0	0.2	0.1	0.1	0.2	0.2	1.7
28-Feb	0.1	0.1	0.2	0.5	Z	0.7	0.6	0.5	0.4	0.5	0.6	0.6	1.7	0.7	0.9	0.7	0.8	0.6	0.5	0.4	0.4	0.3	0.4	0.4	0.5	1.7
	0.8	1.3	0.7	0.7	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.5	0.5	0.8	0.9	1.3	1.3	0.6	0.5	0.4	0.3	0.4	0.4	0.6	Diurnal Average	
	7.6	16.8	13.5	12.3	0.7	1.9	1.8	3.1	3.8	2.1	1.0	7.0	5.9	6.1	10.7	11.6	19.5	5.4	4.5	4.2	2.1	4.6	4.0	9.0	Diurnal Maximum	

Z - zerospan C - Calibration

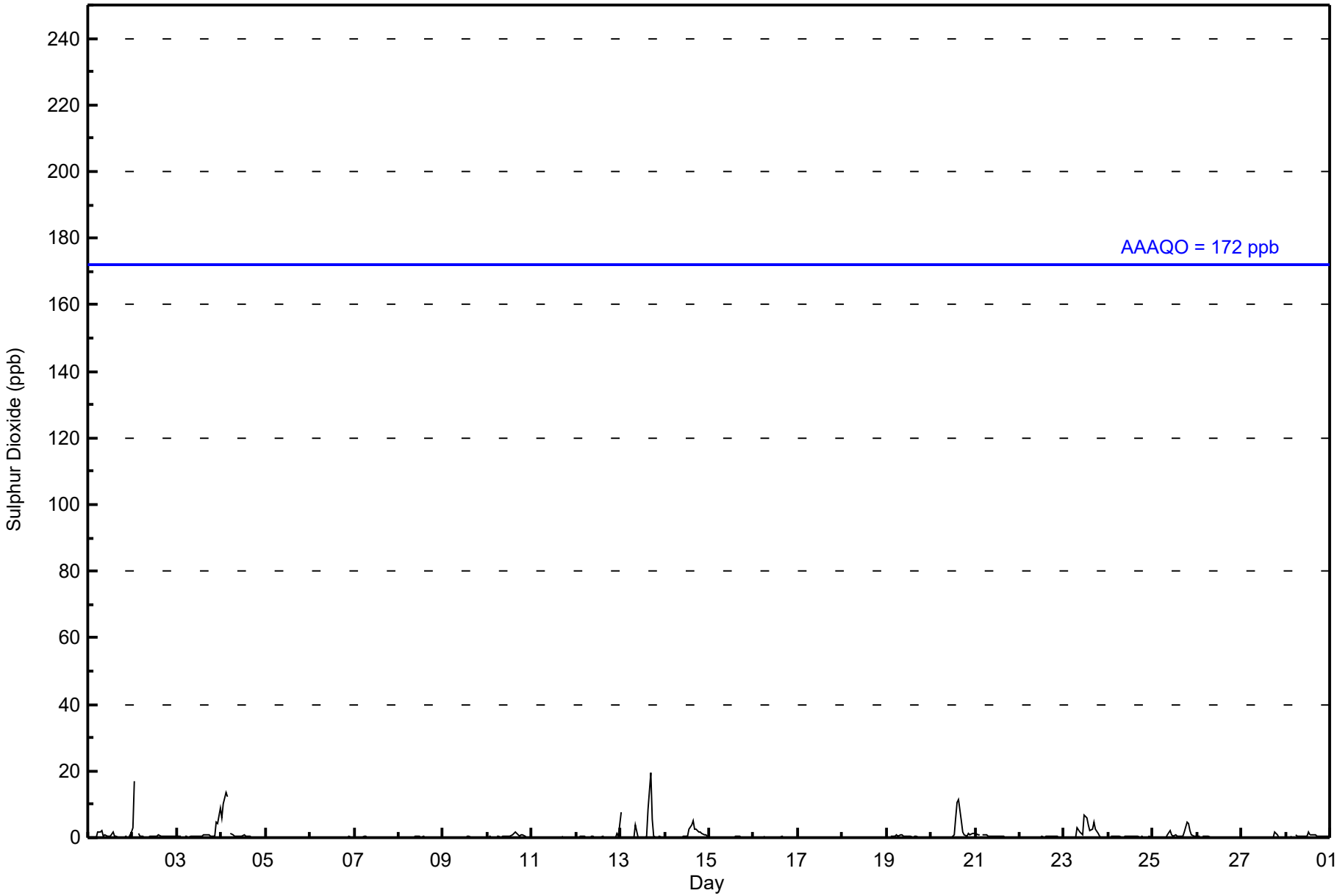
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Lower Camp - February 2026



Sulphur Dioxide (SO_2) - ppb
Lower Camp - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	634	99.06	99.06
11 - 20	6	0.94	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Lower Camp - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	138	59	4	5	3	14	113	78	4	2	3	13	15	27	62	79	619
11 - 20	0	0	0	0	0	0	1	2	0	0	1	0	1	1	0	0	6
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	138	59	4	5	3	14	114	80	4	2	4	13	16	28	62	79	625

Total Number of Valid Hours: 625

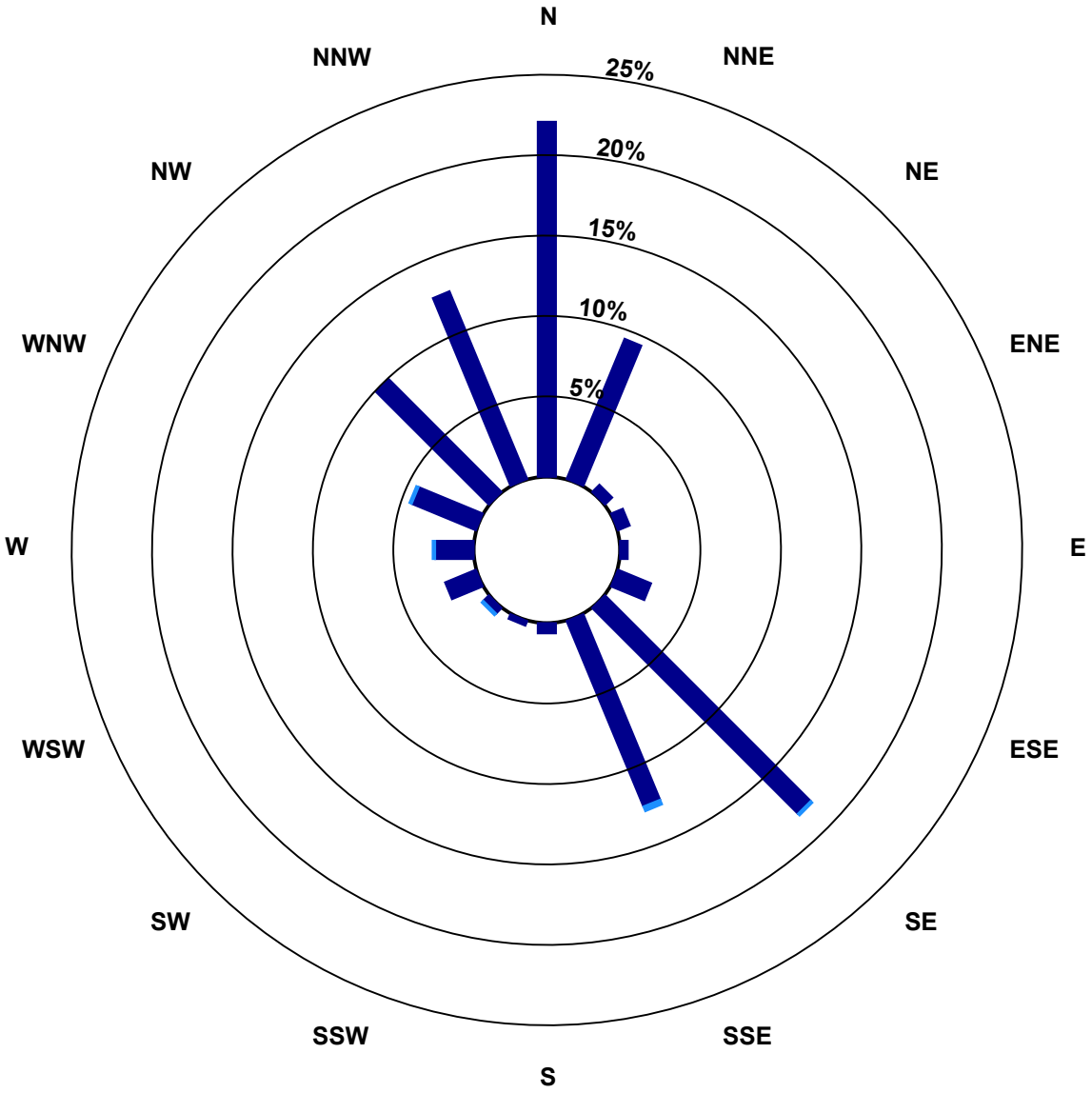
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Lower Camp



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

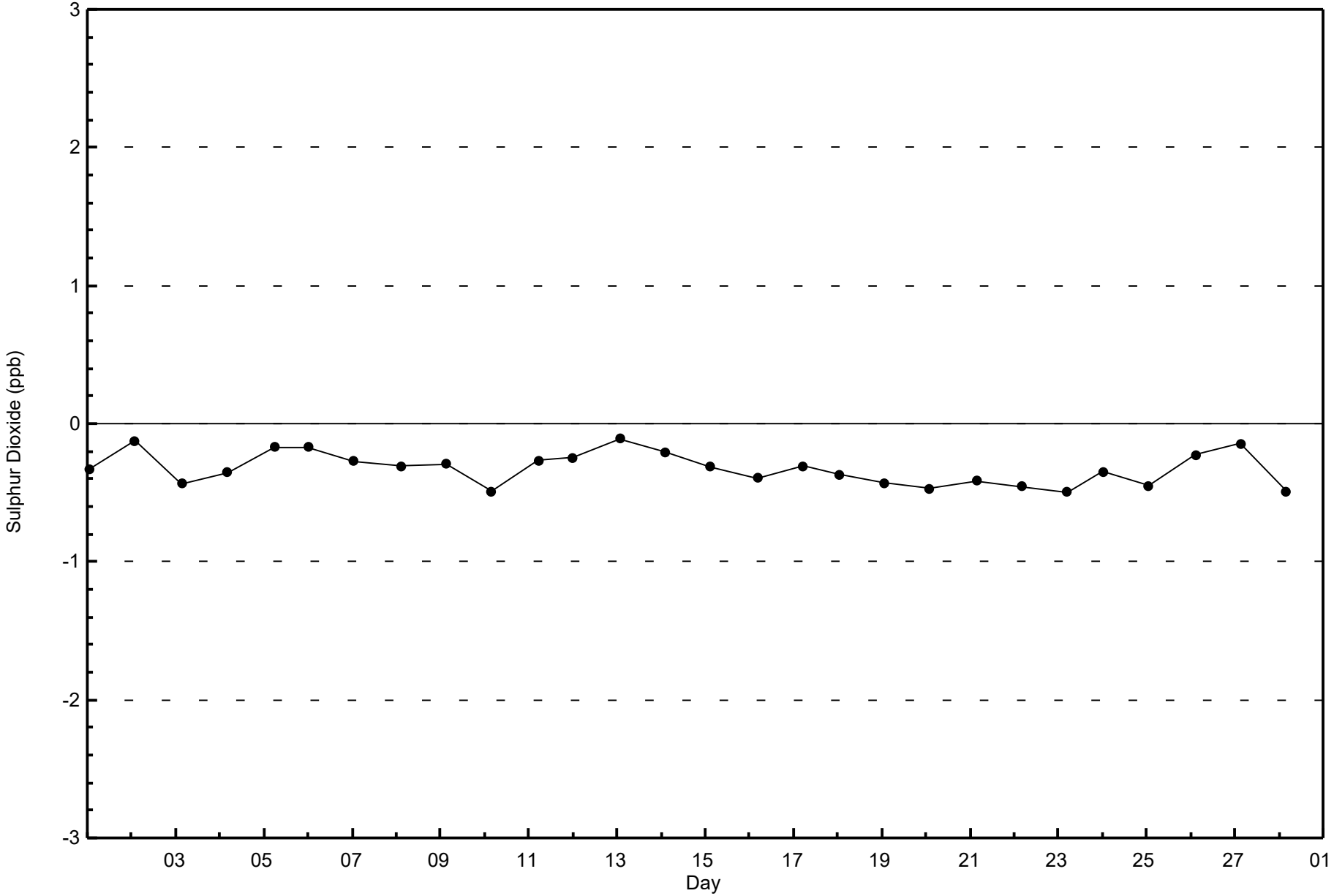
Total Number of Valid Hours: 625

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Lower Camp - February 2026

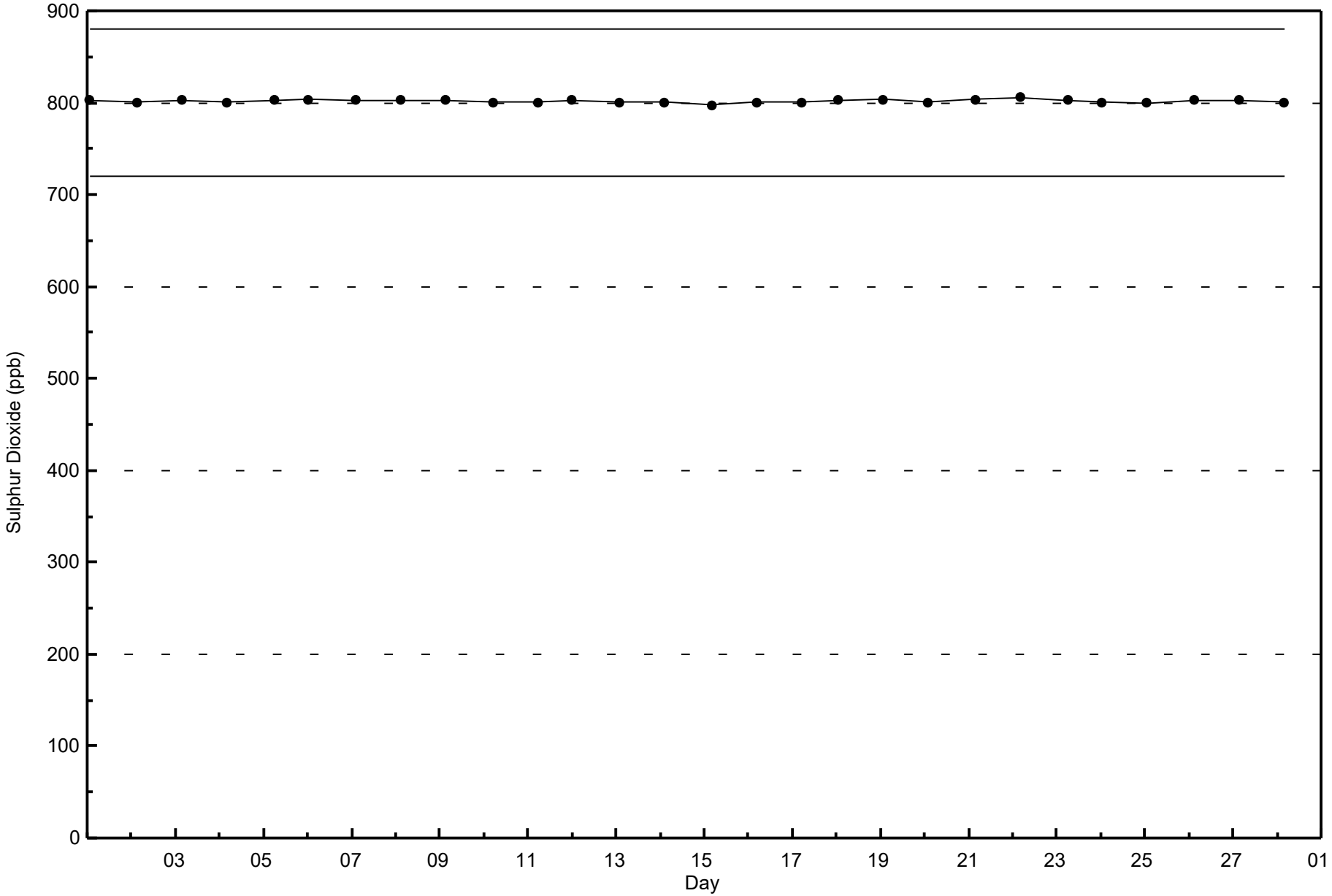


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Lower Camp - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Lower Camp - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 2.7 ppb on Feb 4 03:00 Maximum Daily Average: 1.1 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 18 07:00 Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 0.4 ppb at hour 3 Minimum Diurnal Average: 0.3 ppb at hour 14

Monthly Average: 0.33 ppb Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.1 Median = 0.2 Q_3 = 0.4 P_{90} = 0.7 P_{99} = 1.7

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	0.1	Z	0.1	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.4	0.2	0.4
2-Feb	1.1	1.2	0.4	Z	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.4	0.2	0.3	0.3	0.3	0.2	0.4	0.3	0.4	0.4	0.3	0.2	0.4	1.2
3-Feb	0.2	0.2	0.2	0.1	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.7	1.0	1.0	0.6	0.4	0.3	0.3	0.5	0.4	0.7	0.4	1.0
4-Feb	0.5	1.9	2.7	0.6	0.4	Z	0.4	0.4	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.2	0.2	0.1	0.4	2.7
5-Feb	Z	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2
6-Feb	0.2	Z	0.2	0.2	0.4	0.6	0.6	0.4	0.6	0.8	0.7	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.4	0.5	0.7	0.5	0.4	0.8
7-Feb	0.7	0.4	Z	0.4	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.7
8-Feb	0.3	0.2	0.2	Z	0.3	0.5	0.4	0.7	0.7	0.6	0.7	0.6	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.7
9-Feb	0.2	0.3	0.3	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.4
10-Feb	0.2	0.2	0.2	0.3	0.3	Z	0.4	0.3	0.4	0.4	0.8	1.6	1.6	1.6	1.5	1.0	0.7	0.4	0.5	0.8	0.9	1.0	1.3	1.4	0.8	1.6
11-Feb	Z	1.0	1.1	0.5	0.4	0.5	0.6	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.4	0.3	0.4	0.3	0.6	0.9	0.7	0.7	0.5	0.6	1.1
12-Feb	0.8	Z	0.7	0.7	0.6	0.5	0.4	0.4	0.6	0.8	0.9	0.4	0.3	0.3	0.2	0.3	0.1	0.3	0.2	0.0	0.0	0.0	0.1	0.0	0.4	0.9
13-Feb	0.2	0.2	Z	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.5	0.6	0.7	0.5	0.5	0.7	0.6	1.0	0.3	1.0
14-Feb	0.9	0.6	0.7	Z	0.7	0.7	0.6	0.6	0.8	0.9	1.0	1.0	0.8	0.9	1.0	1.3	1.1	1.3	2.3	2.4	2.0	1.7	1.9	0.6	1.1	2.4
15-Feb	0.3	0.2	0.1	0.1	Z	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.1	0.3	0.1	0.3
16-Feb	0.3	0.4	0.4	0.4	0.4	Z	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5
17-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1
19-Feb	0.1	0.1	Z	0.6	0.4	0.5	0.6	0.4	0.4	0.5	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.4	0.6	0.5	0.4	0.4	0.3	0.6
20-Feb	0.4	0.4	0.3	Z	0.3	0.4	0.3	0.3	0.4	0.5	0.4	0.4	0.3	0.6	0.8	1.4	0.8	0.8	0.6	0.2	0.2	0.1	0.2	0.2	0.4	1.4
21-Feb	0.1	0.1	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
22-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.4
23-Feb	Z	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.5	0.8	0.8	0.6	0.6	0.7	0.6	0.6	0.4	0.8
24-Feb	0.8	Z	0.9	0.8	0.9	1.1	0.8	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	1.1
25-Feb	0.3	0.5	Z	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.2	C	C	C	C	C	C	0.8	0.6	0.4	0.2	0.2	0.2	--	0.8
26-Feb	0.1	0.2	0.2	Z	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
27-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.3	0.1	0.3
28-Feb	0.2	0.2	0.2	0.7	0.6	Z	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.5	0.3	0.4	0.5	0.5	0.4	0.4	0.7
	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.3	Diurnal Average	
	1.1	1.9	2.7	0.8	0.9	1.1	0.8	0.7	0.8	0.9	1.0	1.6	1.6	1.6	1.5	1.4	1.1	1.3	2.3	2.4	2.0	1.7	1.9	1.4	Diurnal Maximum	

Z - zerospan C - Calibration

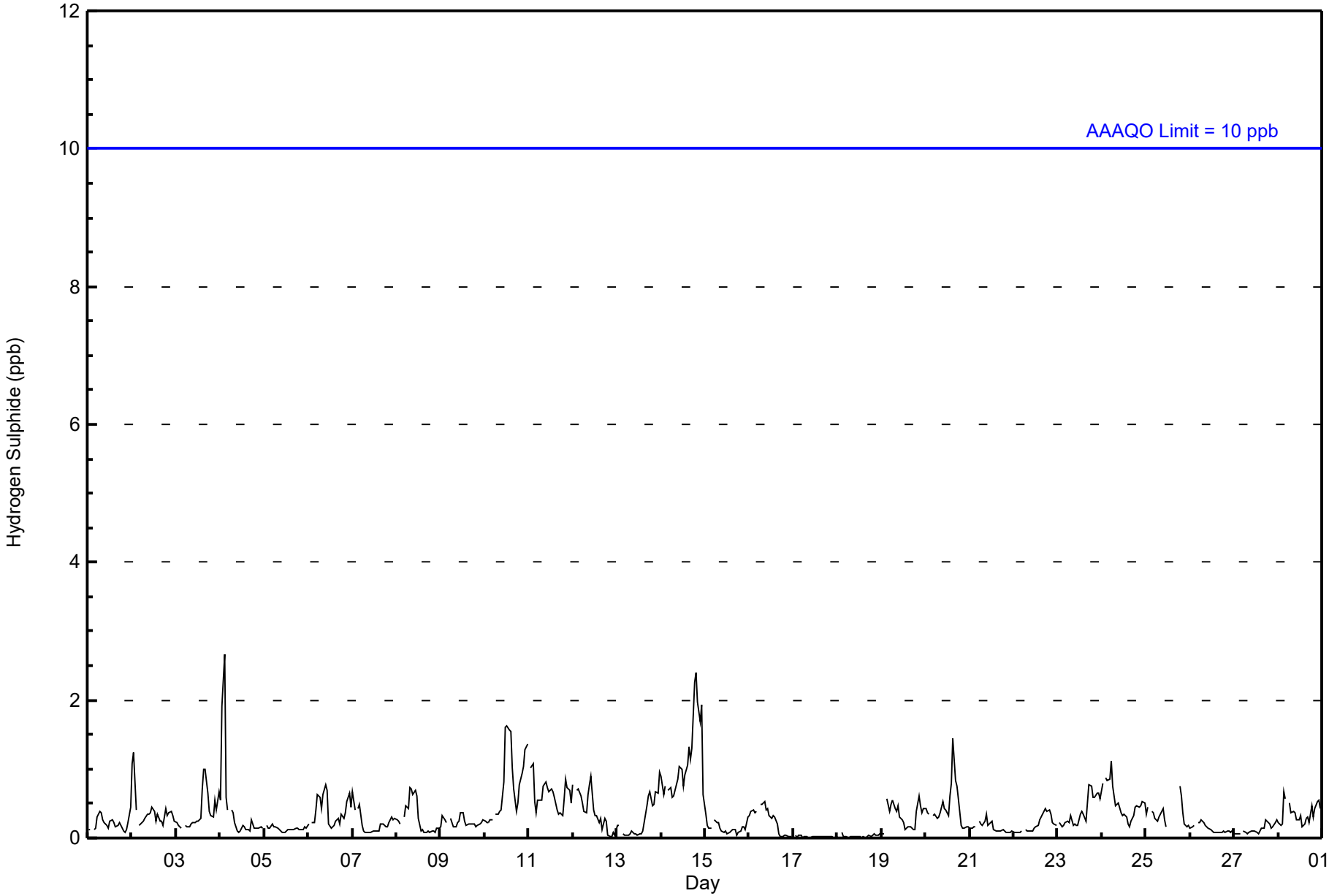
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Lower Camp - February 2026



Hydrogen Sulphide (H_2S) - ppb
Lower Camp - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	637	99.84	99.84
3 - 4	1	0.16	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Lower Camp - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	138	59	4	5	4	14	114	78	4	2	4	13	17	29	58	79	622
3 - 4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	138	59	4	5	4	14	114	79	4	2	4	13	17	29	58	79	623

Total Number of Valid Hours: 623

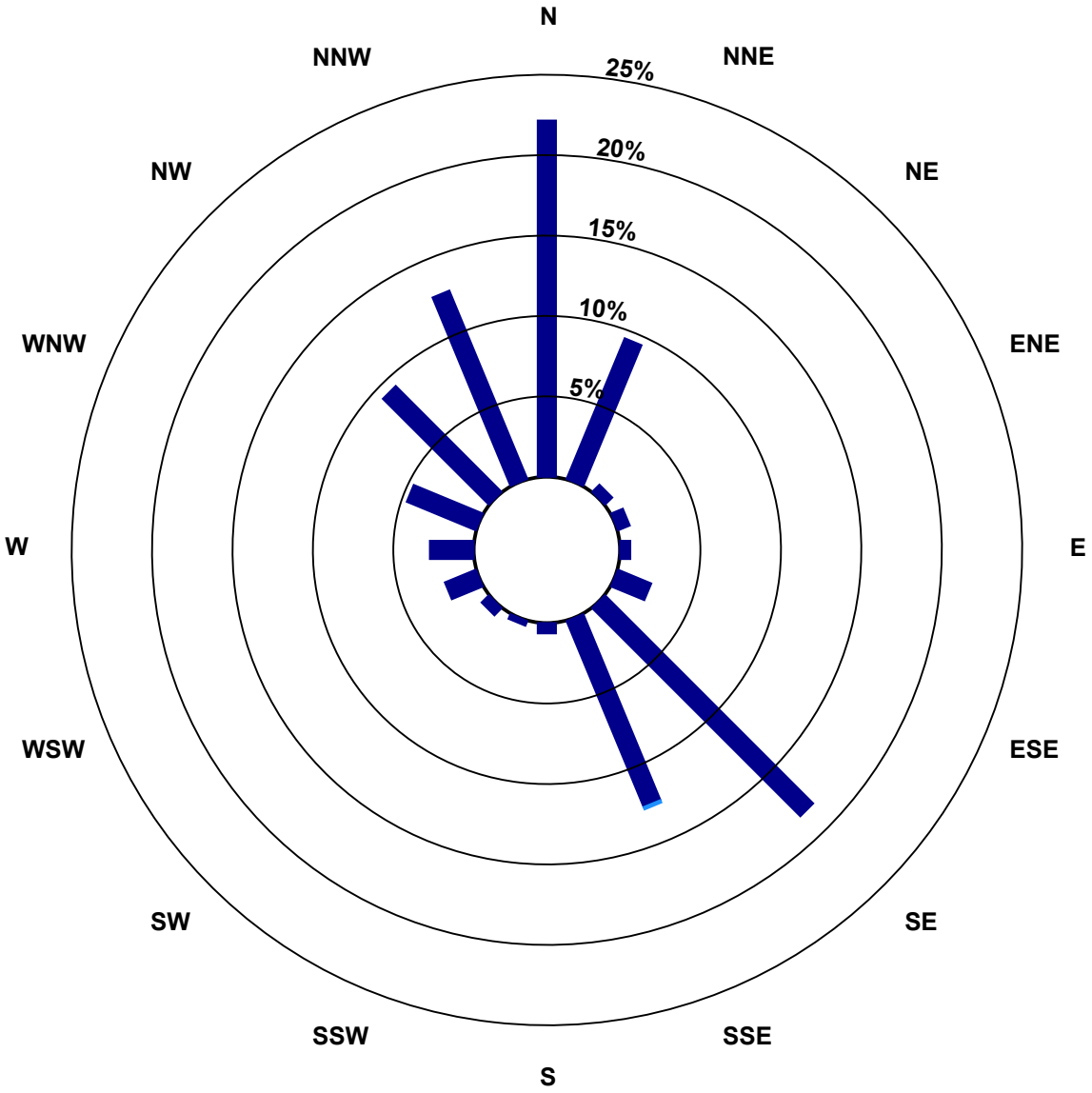
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Lower Camp



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

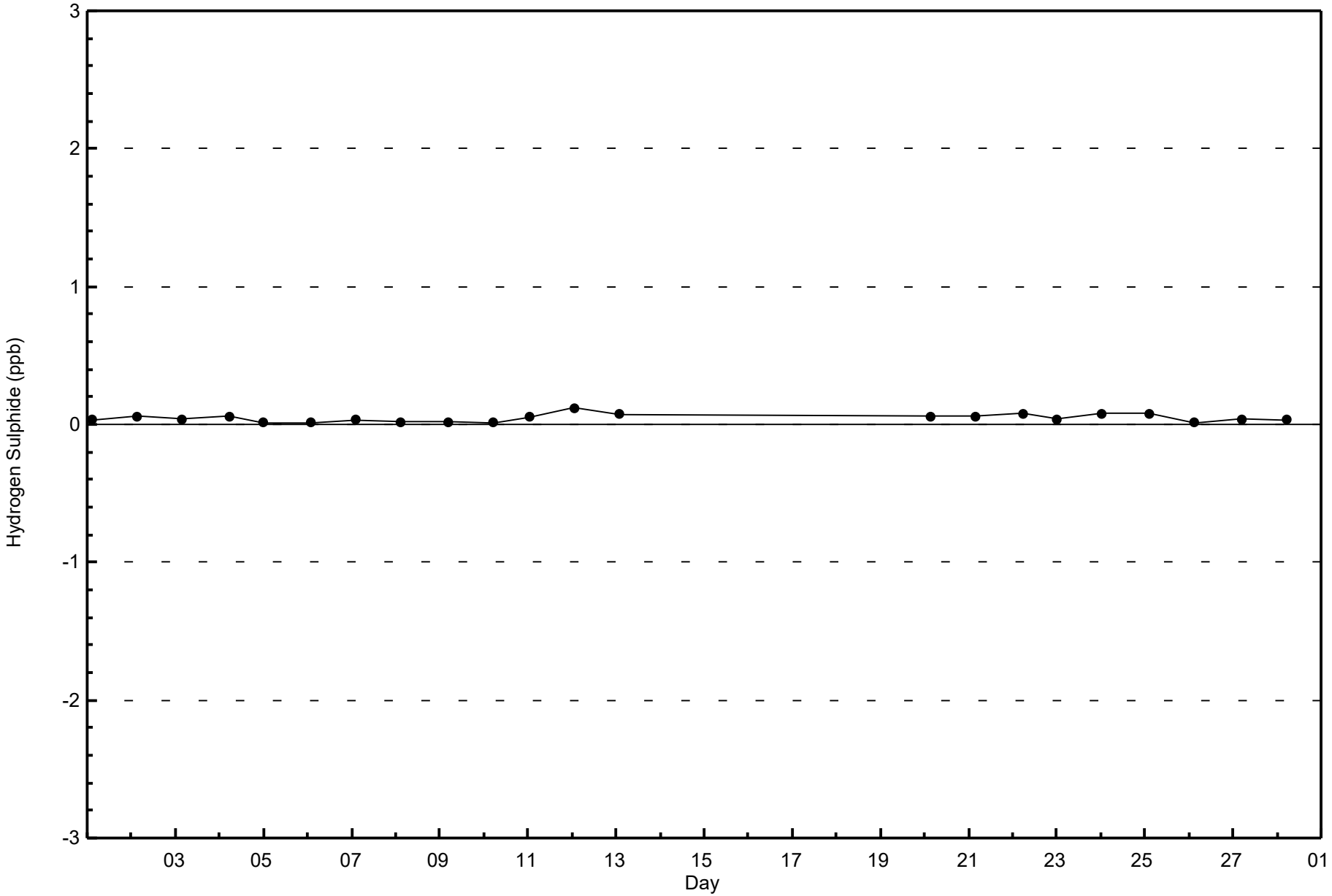
Total Number of Valid Hours: 623

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Lower Camp - February 2026

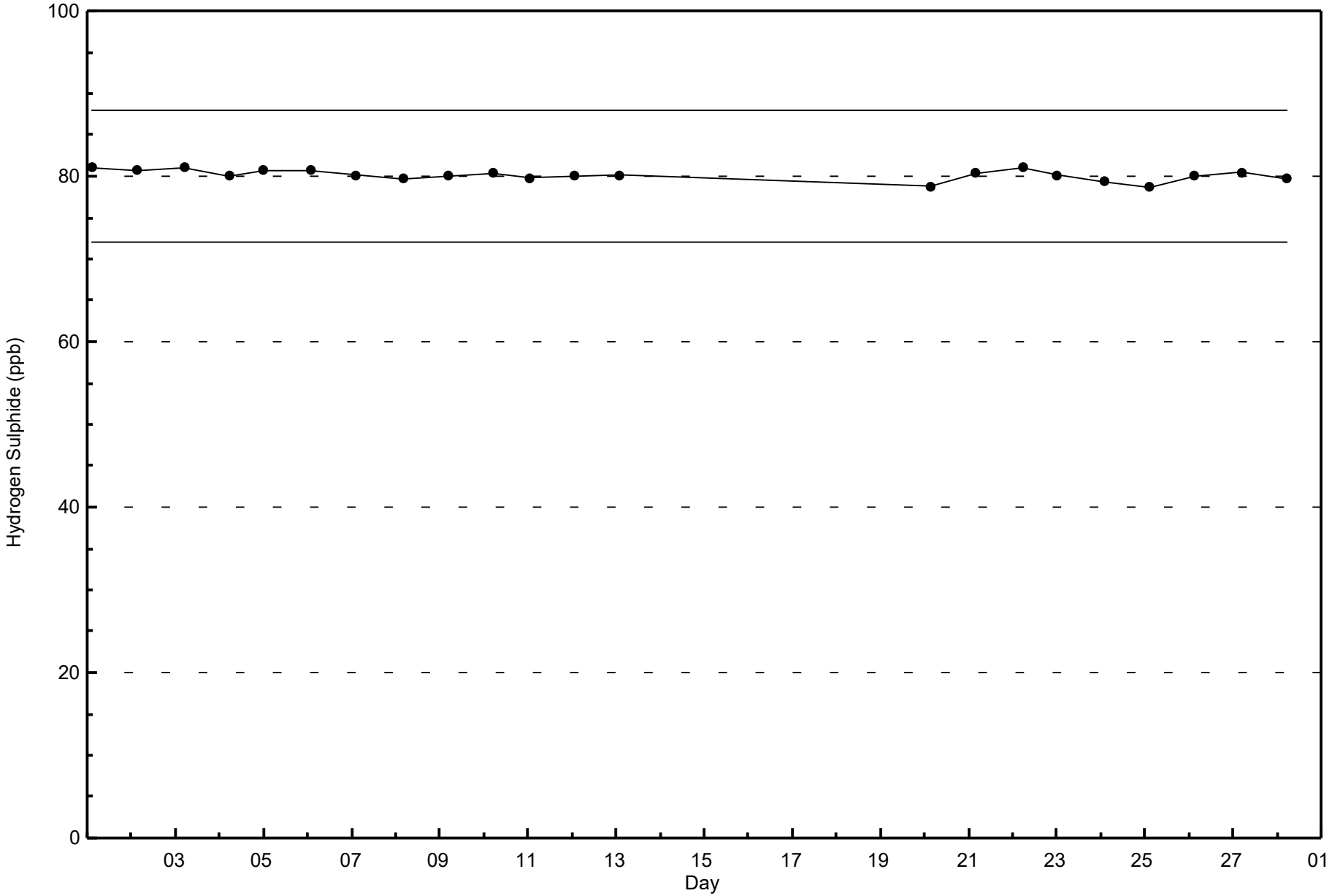


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Lower Camp - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Lower Camp - February 2026

Maximum Value: 3.6 ppm on Feb 14 19:00

Maximum Daily Average: 2.7 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 18 02:00

Minimum Daily Average: 2.0 ppm on Feb 17

Maximum Diurnal Average: 2.3 ppm at hour 20

Minimum Diurnal Average: 2.2 ppm at hour 13

Monthly Average: 2.21 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.1 Q_1 = 2.1 Median = 2.1 Q_3 = 2.3 P_{90} = 2.5 P_{99} = 3.2

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	32
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.1	Z	2.1	2.1	2.1	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
2-Feb	2.1	2.1	Z	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3
3-Feb	2.2	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.7	2.6	2.6	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.7
4-Feb	2.1	2.1	2.1	2.1	Z	2.3	2.3	2.3	2.2	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
5-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
6-Feb	Z	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.4	2.4	2.2	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4
7-Feb	2.2	Z	2.2	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
8-Feb	2.1	2.1	Z	2.2	2.3	2.4	2.4	2.5	2.7	2.9	2.9	2.6	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.9
9-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
10-Feb	2.1	2.1	2.1	2.1	Z	2.3	2.3	2.3	2.3	2.3	2.4	2.6	2.7	2.8	2.8	2.4	2.2	2.2	2.4	2.7	2.8	2.7	2.7	2.7	2.4	2.8
11-Feb	2.7	2.7	2.6	2.3	2.3	Z	2.5	2.4	2.5	2.5	2.5	2.4	C	C	C	C	3.2	3.1	2.5	2.7	2.6	2.5	2.4	2.4	2.6	3.2
12-Feb	Z	2.3	2.4	2.3	2.2	2.3	2.2	2.3	2.5	2.4	2.5	2.2	2.2	2.1	2.4	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.0	2.2	2.5
13-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.3	2.3	2.2	2.2	2.2	2.1	2.3
14-Feb	2.3	2.5	Z	2.6	2.5	2.5	2.3	2.4	2.5	2.6	2.6	2.7	2.4	2.3	2.4	2.4	2.4	2.5	3.6	3.5	3.3	3.2	3.2	2.5	2.7	3.6
15-Feb	2.3	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
16-Feb	2.1	2.1	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3
17-Feb	2.1	2.1	2.1	2.0	2.1	Z	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
18-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
19-Feb	2.1	Z	2.3	2.3	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.2	2.3
20-Feb	2.3	2.2	Z	2.2	2.3	2.3	2.3	2.3	2.3	2.5	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.1	2.1	2.1	2.1	2.1	2.2	2.5
21-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1
22-Feb	2.0	2.0	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.2	2.3
23-Feb	2.1	2.2	2.1	2.1	2.1	Z	2.1	2.3	2.1	2.3	2.1	2.1	2.1	2.2	2.3	2.2	2.3	2.5	2.5	3.3	2.9	2.8	2.9	2.7	2.4	3.3
24-Feb	Z	2.6	2.8	2.8	2.8	3.2	2.7	2.3	2.2	2.2	2.2	2.2	2.3	2.5	2.4	2.3	2.2	2.3	2.5	2.6	2.8	2.8	2.8	2.6	2.5	3.2
25-Feb	2.4	Z	2.4	2.3	2.3	2.2	2.2	2.2	2.2	3.0	2.6	2.1	2.1	2.4	2.3	2.1	2.7	M	M	M	2.3	2.2	2.1	2.1	2.3	3.0
26-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
27-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.3
28-Feb	2.1	2.1	2.1	2.2	Z	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.1	2.3
	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	Diurnal Average	
	2.7	2.7	2.8	2.8	2.8	3.2	2.7	2.5	2.7	3.0	2.9	2.7	2.7	2.8	2.8	2.6	3.2	3.1	3.6	3.5	3.3	3.2	3.2	2.7	Diurnal Maximum	

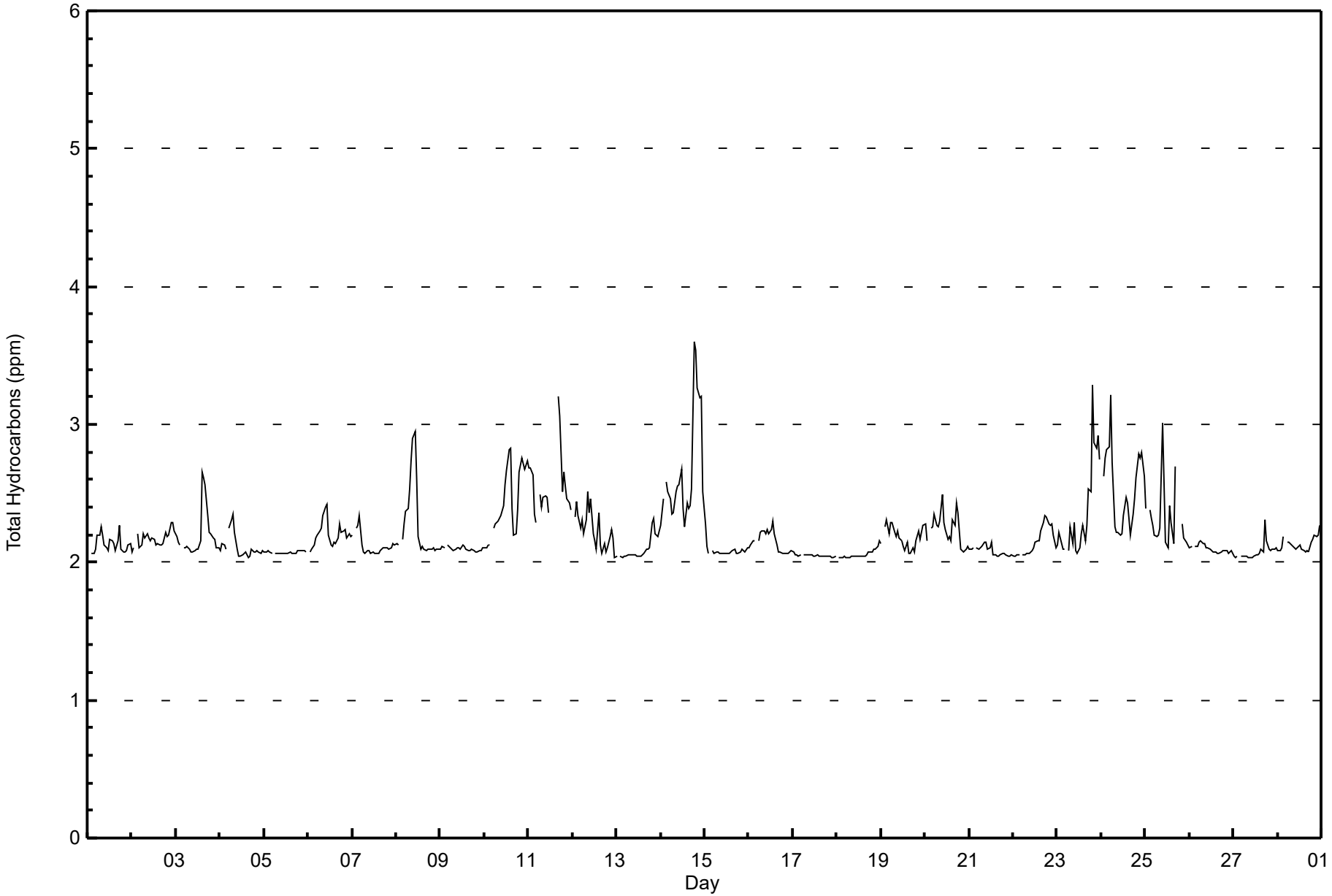
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Lower Camp - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Total Hydrocarbons (THC) - ppm

Lower Camp - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	62	9.73	9.73
2.1 - 3.0	566	88.85	98.59
3.1 - 10.0	9	1.41	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Lower Camp - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	30	11	1	0	0	0	0	0	0	0	0	8	5	1	1	5	62
2.1 - 3.0	106	48	3	5	2	14	114	79	4	2	4	5	10	23	61	72	552
3.1 - 10.0	0	0	0	0	1	0	0	1	0	0	0	0	1	4	0	1	8
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	136	59	4	5	3	14	114	80	4	2	4	13	16	28	62	78	622

Total Number of Valid Hours: 622

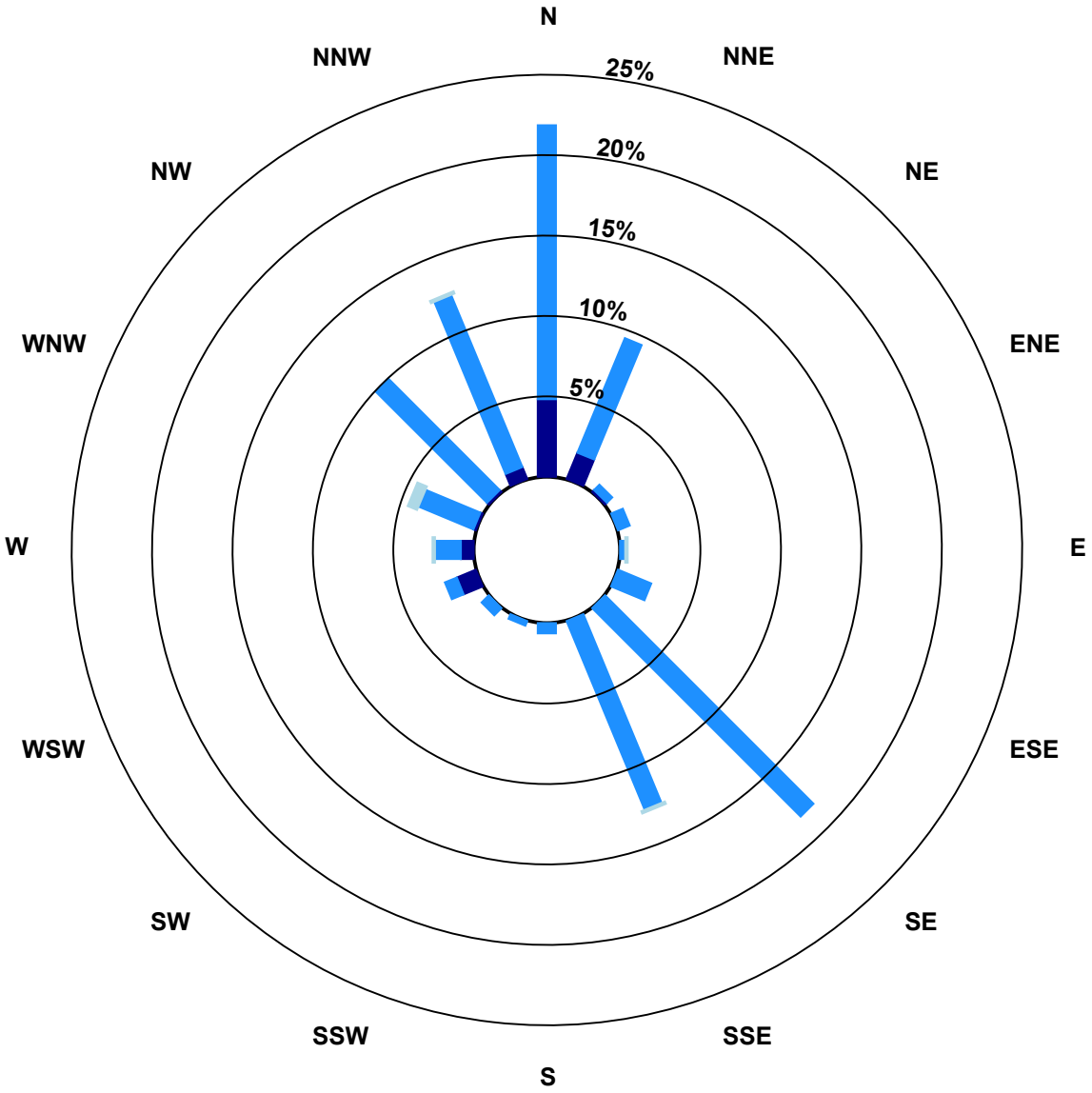
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Lower Camp



Classes (ppm)

- 0 - 2.0
- 2.1 - 3.0
- 3.1 - 10.0
- > 10.0

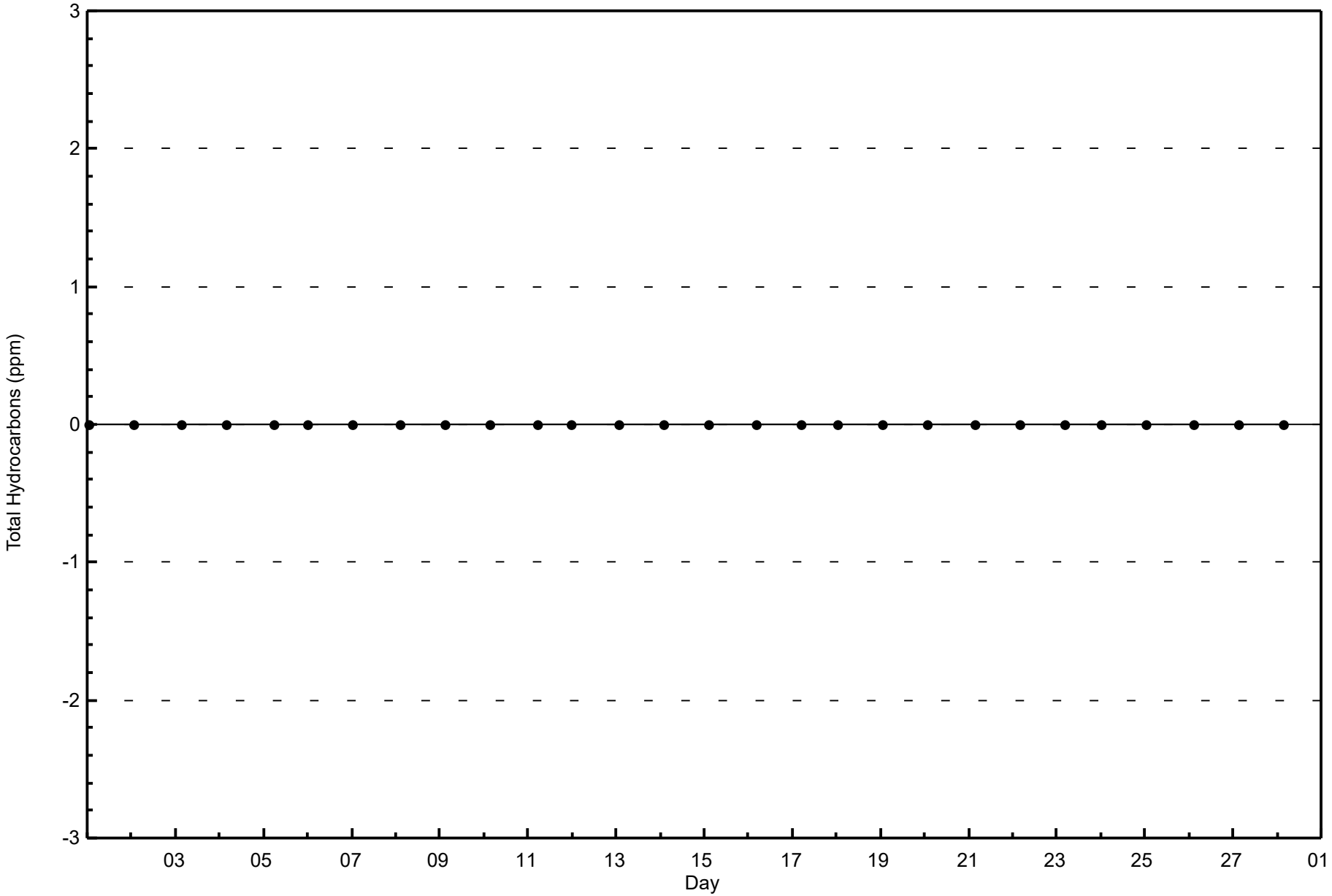
Total Number of Valid Hours: 622

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Lower Camp - February 2026

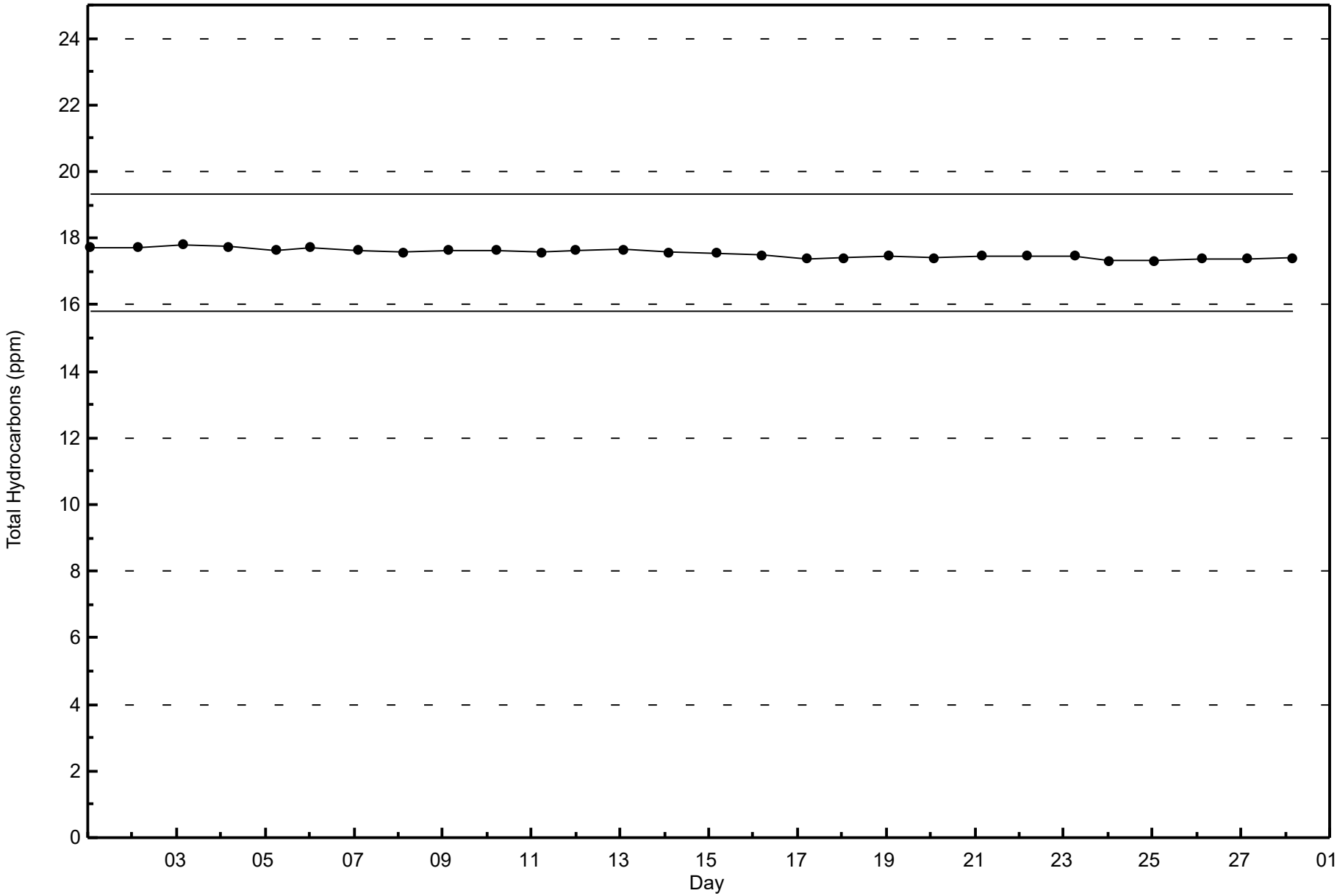


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Lower Camp - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Lower Camp - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 3.4 ppm on Feb 14 19:00

Maximum Daily Average: 2.6 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 18 02:00

Minimum Daily Average: 2.0 ppm on Feb 17

Maximum Diurnal Average: 2.3 ppm at hour 20

Minimum Diurnal Average: 2.1 ppm at hour 16

Monthly Average: 2.20 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.1 Q_1 = 2.1 Median = 2.1 Q_3 = 2.2 P_{90} = 2.5 P_{99} = 3.2

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	32
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.1	Z	2.1	2.1	2.1	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
2-Feb	2.1	2.1	Z	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3
3-Feb	2.2	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.7	2.6	2.6	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.7
4-Feb	2.1	2.1	2.1	2.1	Z	2.2	2.3	2.3	2.2	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
5-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
6-Feb	Z	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.4	2.4	2.2	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4
7-Feb	2.2	Z	2.2	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
8-Feb	2.1	2.1	Z	2.2	2.3	2.3	2.3	2.4	2.6	2.9	2.9	2.6	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.9
9-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
10-Feb	2.1	2.1	2.1	2.1	Z	2.2	2.3	2.3	2.3	2.3	2.4	2.6	2.7	2.8	2.8	2.4	2.2	2.2	2.4	2.7	2.8	2.7	2.7	2.7	2.4	2.8
11-Feb	2.7	2.7	2.6	2.3	2.3	Z	2.5	2.4	2.5	2.5	2.5	2.4	C	C	C	C	3.2	3.1	2.5	2.7	2.6	2.5	2.4	2.4	2.6	3.2
12-Feb	Z	2.3	2.4	2.3	2.3	2.3	2.2	2.3	2.5	2.4	2.5	2.2	2.2	2.1	2.4	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.0	2.2	2.5
13-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.3	2.3	2.2	2.2	2.2	2.1	2.3
14-Feb	2.3	2.5	Z	2.6	2.5	2.5	2.3	2.4	2.5	2.6	2.6	2.7	2.4	2.3	2.4	2.4	2.4	2.5	3.4	3.4	3.3	3.2	3.2	2.5	2.6	3.4
15-Feb	2.3	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
16-Feb	2.1	2.1	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
17-Feb	2.1	2.1	2.1	2.0	2.1	Z	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
18-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
19-Feb	2.1	Z	2.3	2.3	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.2	2.3
20-Feb	2.3	2.2	Z	2.2	2.3	2.3	2.3	2.3	2.3	2.5	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.3	2.1	2.1	2.1	2.1	2.1	2.2	2.5
21-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1
22-Feb	2.0	2.0	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.3
23-Feb	2.1	2.2	2.1	2.1	2.1	Z	2.1	2.3	2.1	2.3	2.1	2.1	2.1	2.2	2.3	2.2	2.3	2.5	2.5	3.3	2.9	2.8	2.9	2.7	2.4	3.3
24-Feb	Z	2.6	2.8	2.8	2.8	3.2	2.7	2.3	2.2	2.2	2.2	2.2	2.3	2.5	2.4	2.3	2.2	2.3	2.5	2.6	2.8	2.8	2.8	2.6	2.5	3.2
25-Feb	2.4	Z	2.4	2.3	2.3	2.2	2.2	2.2	2.2	3.0	2.6	2.1	2.1	2.4	2.3	2.1	2.7	M	M	M	2.3	2.2	2.1	2.1	2.3	3.0
26-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
27-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.3
28-Feb	2.1	2.1	2.1	2.2	Z	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.1	2.3
	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	Diurnal Average	
	2.7	2.7	2.8	2.8	2.8	3.2	2.7	2.4	2.6	3.0	2.9	2.7	2.7	2.8	2.8	2.6	3.2	3.1	3.4	3.4	3.3	3.2	3.2	2.7	Diurnal Maximum	

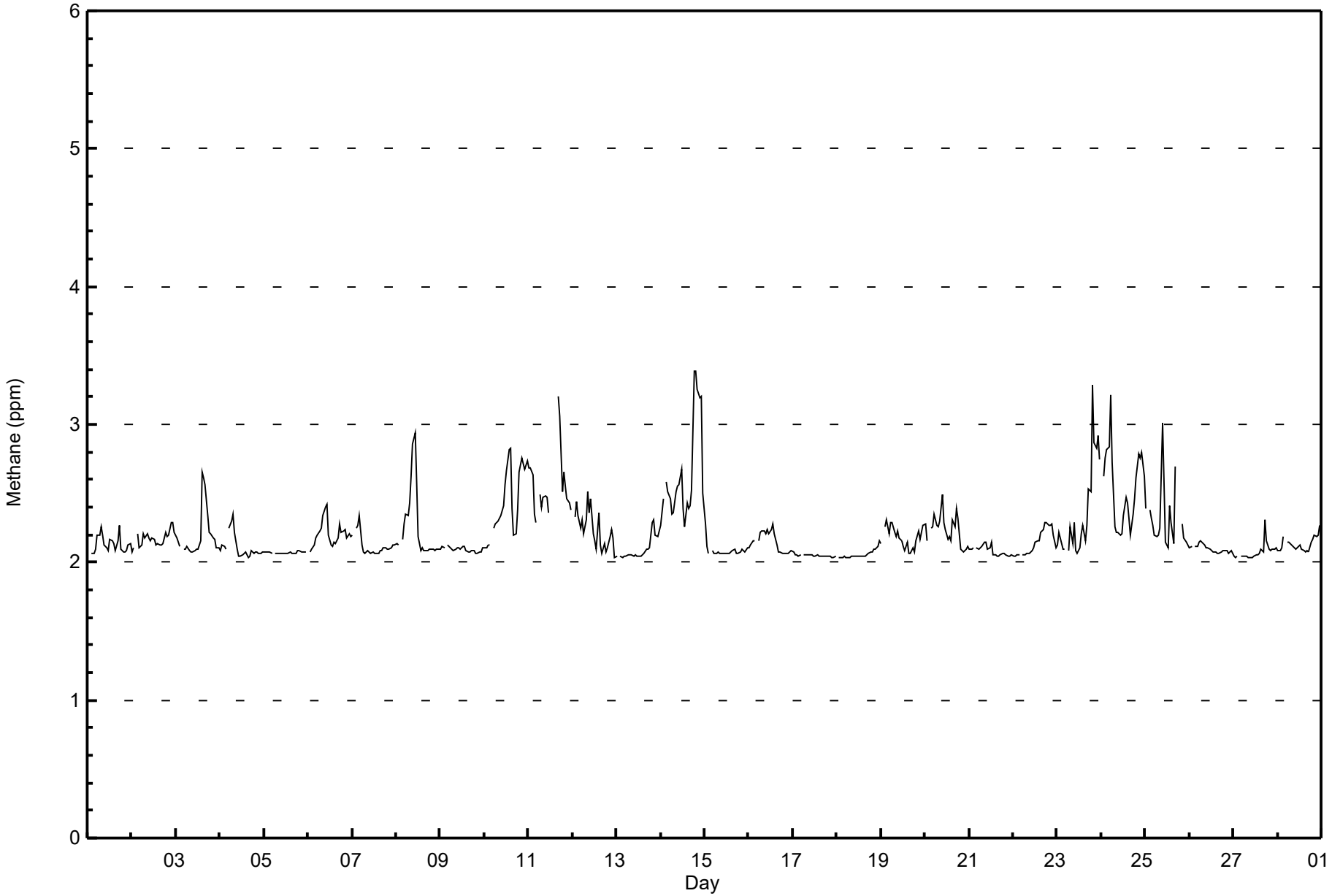
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Lower Camp - February 2026



Methane (CH_4) - ppm
Lower Camp - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	63	9.89	9.89
2.1 - 3.0	565	88.70	98.59
3.1 - 10.0	9	1.41	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Lower Camp - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	30	11	1	0	0	0	0	0	0	0	0	8	6	1	1	5	63
2.1 - 3.0	106	48	3	5	2	14	114	79	4	2	4	5	9	23	61	72	551
3.1 - 10.0	0	0	0	0	1	0	0	1	0	0	0	0	1	4	0	1	8
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	136	59	4	5	3	14	114	80	4	2	4	13	16	28	62	78	622

Total Number of Valid Hours: 622

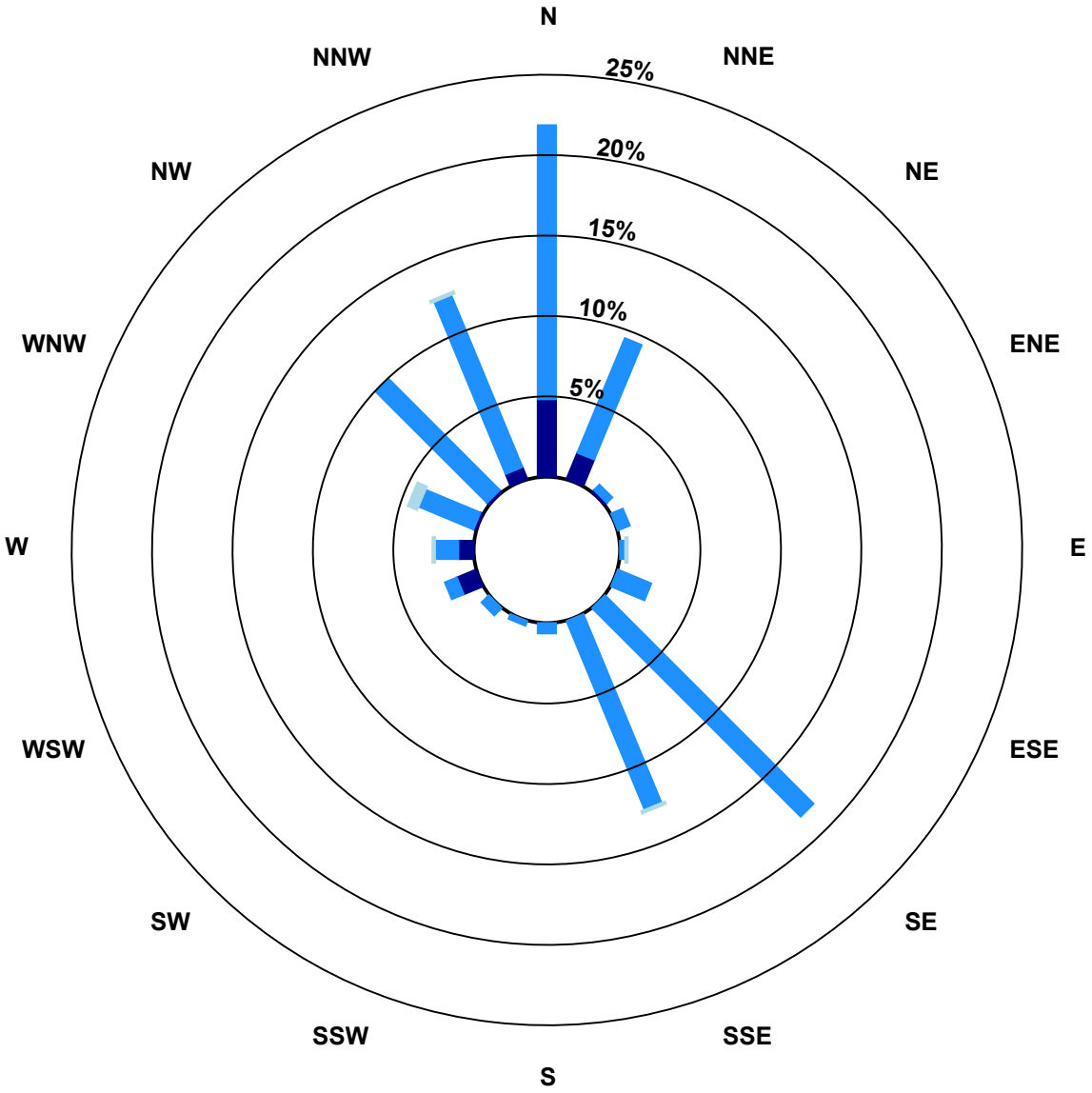
Total Number of Hours: 672

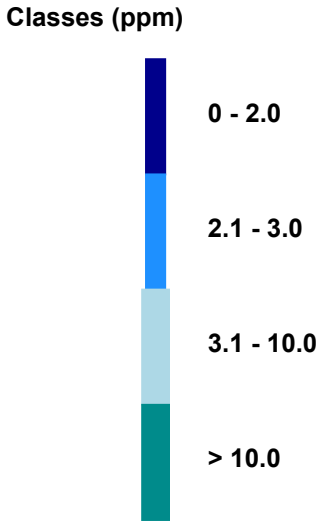
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Lower Camp





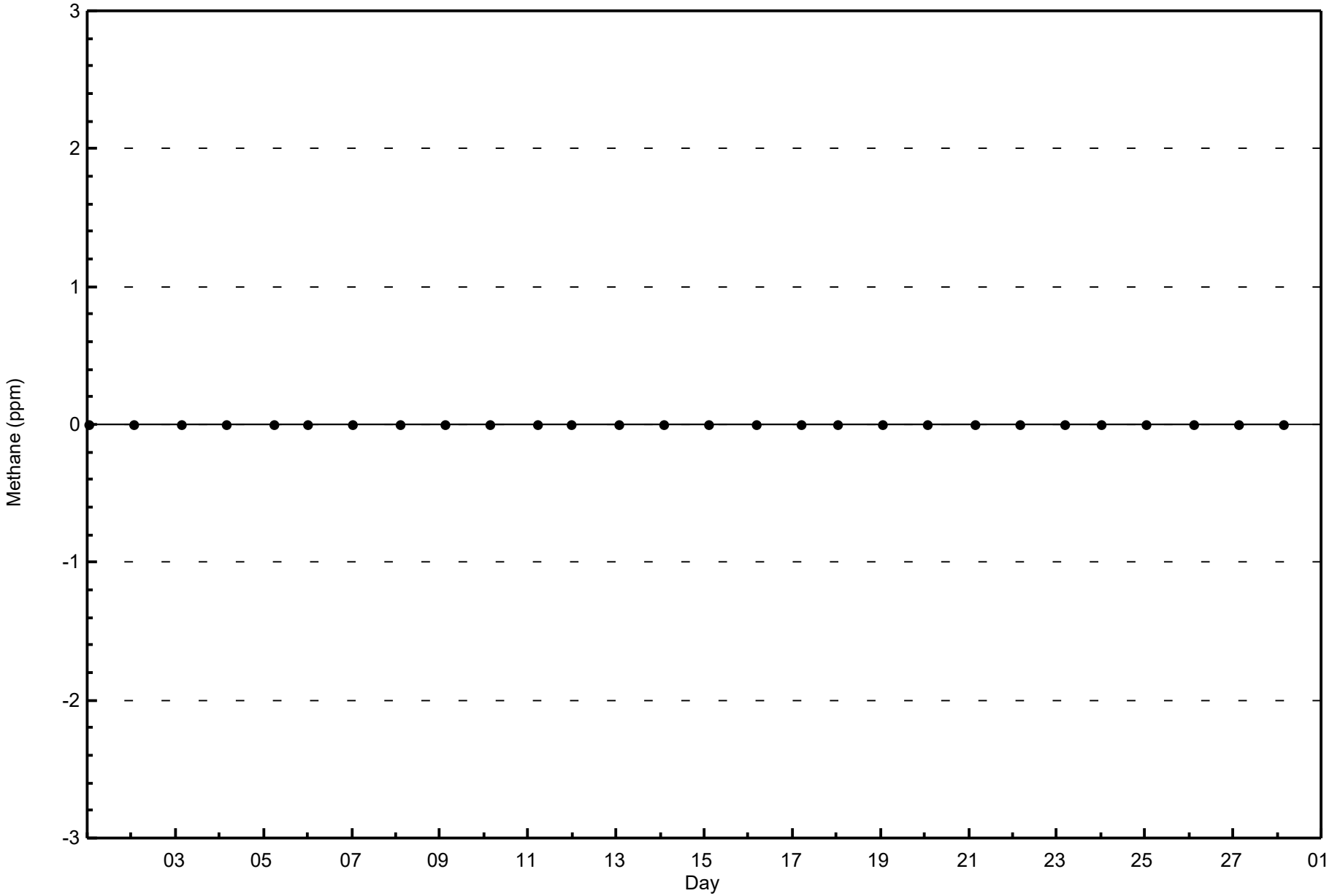
Total Number of Valid Hours: 622

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Lower Camp - February 2026

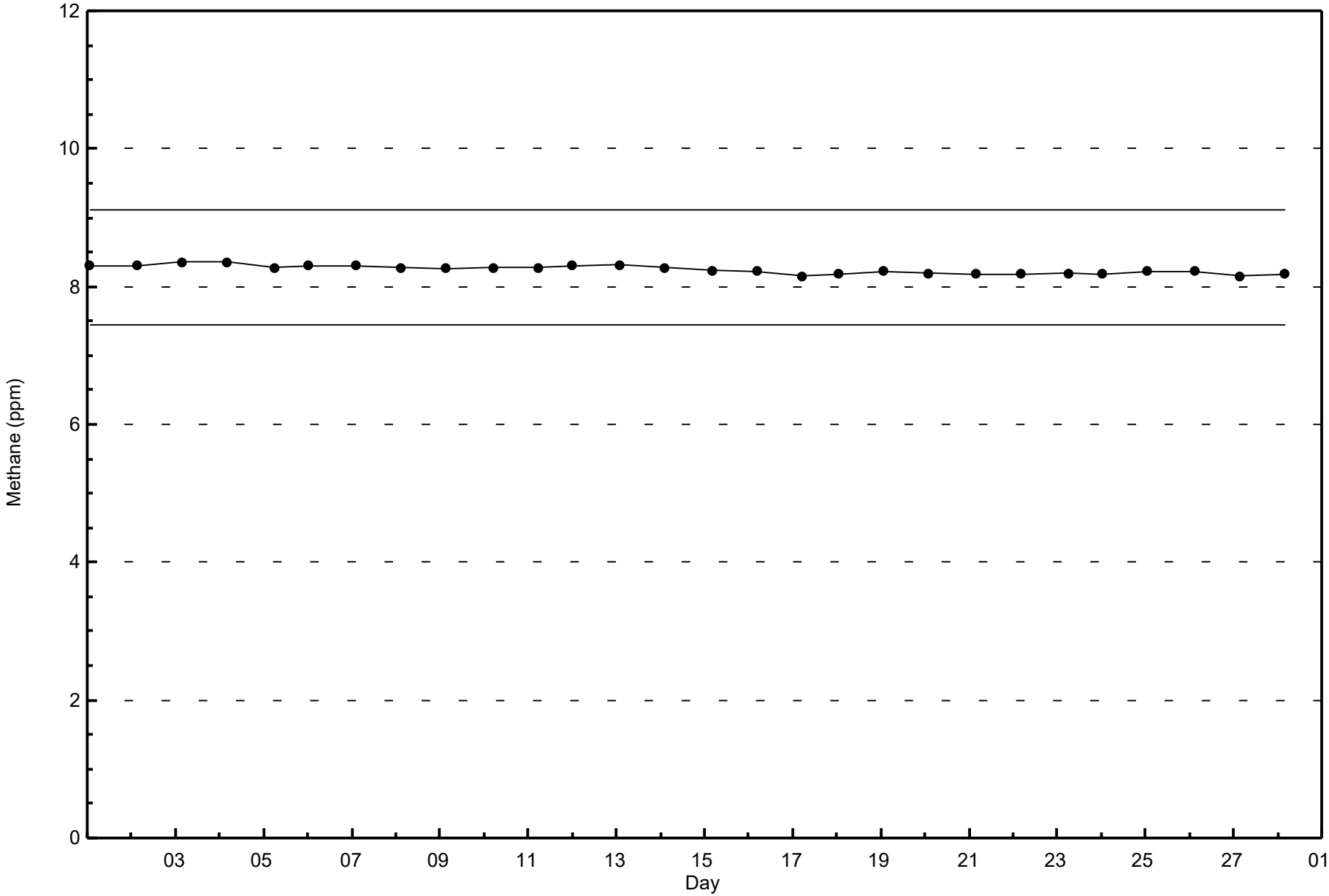


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Lower Camp - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Lower Camp - February 2026

Maximum Value: 0.210 ppm on Feb 14 19:00

Maximum Daily Average: 0.018 ppm on Feb 8

Minimum Value: 0.000 ppm on Feb 1 01:00

Minimum Daily Average: 0.000 ppm on Feb 24

Maximum Diurnal Average: 0.012 ppm at hour 19

Minimum Diurnal Average: 0.000 ppm at hour 4

Monthly Average: 0.002 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.0 P_{99} = 0.0

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	32
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.011	0.001	0.011
3-Feb	0.010	0.002	0.008	Z	0.005	0.011	0.005	0.001	0.000	0.007	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.002	0.011
4-Feb	0.003	0.004	0.006	0.001	Z	0.000	0.003	0.000	0.002	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.002	0.009	0.006	0.004	0.006	0.000	0.002	0.002	0.009
5-Feb	0.001	0.003	0.004	0.001	0.001	Z	0.000	0.002	0.000	0.000	0.000	0.002	0.002	0.003	0.001	0.003	0.000	0.000	0.002	0.001	0.002	0.002	0.002	0.003	0.002	0.004
6-Feb	Z	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.002
7-Feb	0.000	Z	0.000	0.000	0.000	0.002	0.003	0.001	0.000	0.003	0.000	0.003	0.005	0.000	0.002	0.002	0.007	0.003	0.005	0.003	0.005	0.002	0.004	0.001	0.002	0.007
8-Feb	0.000	0.001	Z	0.000	0.000	0.026	0.048	0.096	0.112	0.038	0.013	0.036	0.004	0.005	0.002	0.008	0.005	0.006	0.003	0.006	0.006	0.002	0.001	0.000	0.018	0.112
9-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.001	0.007	0.004	0.006	0.009	0.006	0.005	0.011	0.010	0.009	0.007	0.006	0.005	0.004	0.008	0.004	0.004	0.005	0.011
10-Feb	0.002	0.000	0.000	0.000	Z	0.002	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
11-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	C	C	C	C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.001	0.000	0.002	0.000	0.000	0.000	0.000	0.001	0.000	0.002
13-Feb	0.001	Z	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.003	0.001	0.004	0.007	0.001	0.000	0.001	0.007
14-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.210	0.148	0.003	0.000	0.000	0.007	0.017	0.210
15-Feb	0.001	0.002	0.003	Z	0.002	0.001	0.006	0.001	0.002	0.000	0.000	0.001	0.001	0.002	0.001	0.000	0.000	0.001	0.002	0.001	0.001	0.000	0.001	0.000	0.001	0.006
16-Feb	0.000	0.001	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.013	0.002	0.002	0.001	0.002	0.000	0.001	0.002	0.003	0.001	0.000	0.001	0.013
17-Feb	0.000	0.000	0.000	0.000	0.001	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
18-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.005	0.001	0.000	0.000	0.001	0.000	0.005
19-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
20-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.043	0.002	0.002	0.000	0.000	0.000	0.004	0.043
21-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.003
22-Feb	0.002	0.001	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.048	0.054	0.035	0.008	0.004	0.000	0.000	0.000	0.007	0.054
23-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	M	M	M	0.001	0.003	0.001	0.002	0.000	0.003
26-Feb	0.000	0.000	Z	0.000	0.000	0.001	0.002	0.001	0.005	0.003	0.002	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.005
27-Feb	0.000	0.000	0.000	Z	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
28-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
	0.001	0.001	0.001	0.000	0.000	0.002	0.002	0.004	0.005	0.002	0.001	0.002	0.001	0.001	0.001	0.002	0.003	0.005	0.012	0.007	0.001	0.001	0.001	0.001	Diurnal Average	
	0.010	0.004	0.008	0.001	0.005	0.026	0.048	0.096	0.112	0.038	0.013	0.036	0.006	0.013	0.011	0.013	0.048	0.054	0.210	0.148	0.006	0.008	0.004	0.011	Diurnal Maximum	

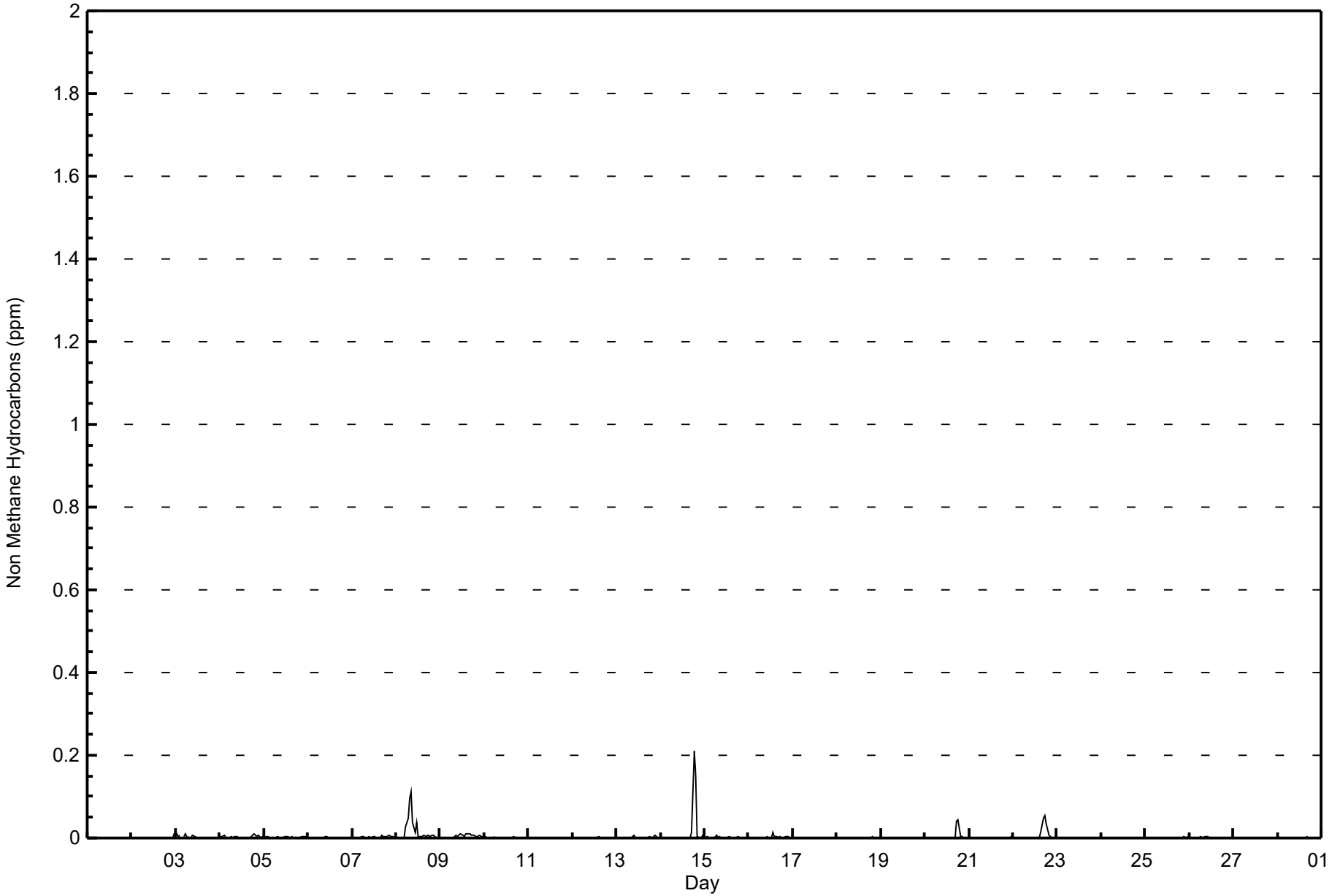
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Lower Camp - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Lower Camp - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	594	93.25	93.25
0.006 - 0.05	39	6.12	99.37
0.06 - 0.1	3	0.47	99.84
> 0.1	1	0.16	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Lower Camp - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	116	56	4	5	3	14	114	79	4	2	4	13	15	26	50	74	579
0.006 - 0.05	20	3	0	0	0	0	0	1	0	0	0	0	1	0	12	2	39
0.06 - 0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	3
> 0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Totals	136	59	4	5	3	14	114	80	4	2	4	13	16	28	62	78	622

Total Number of Valid Hours: 622

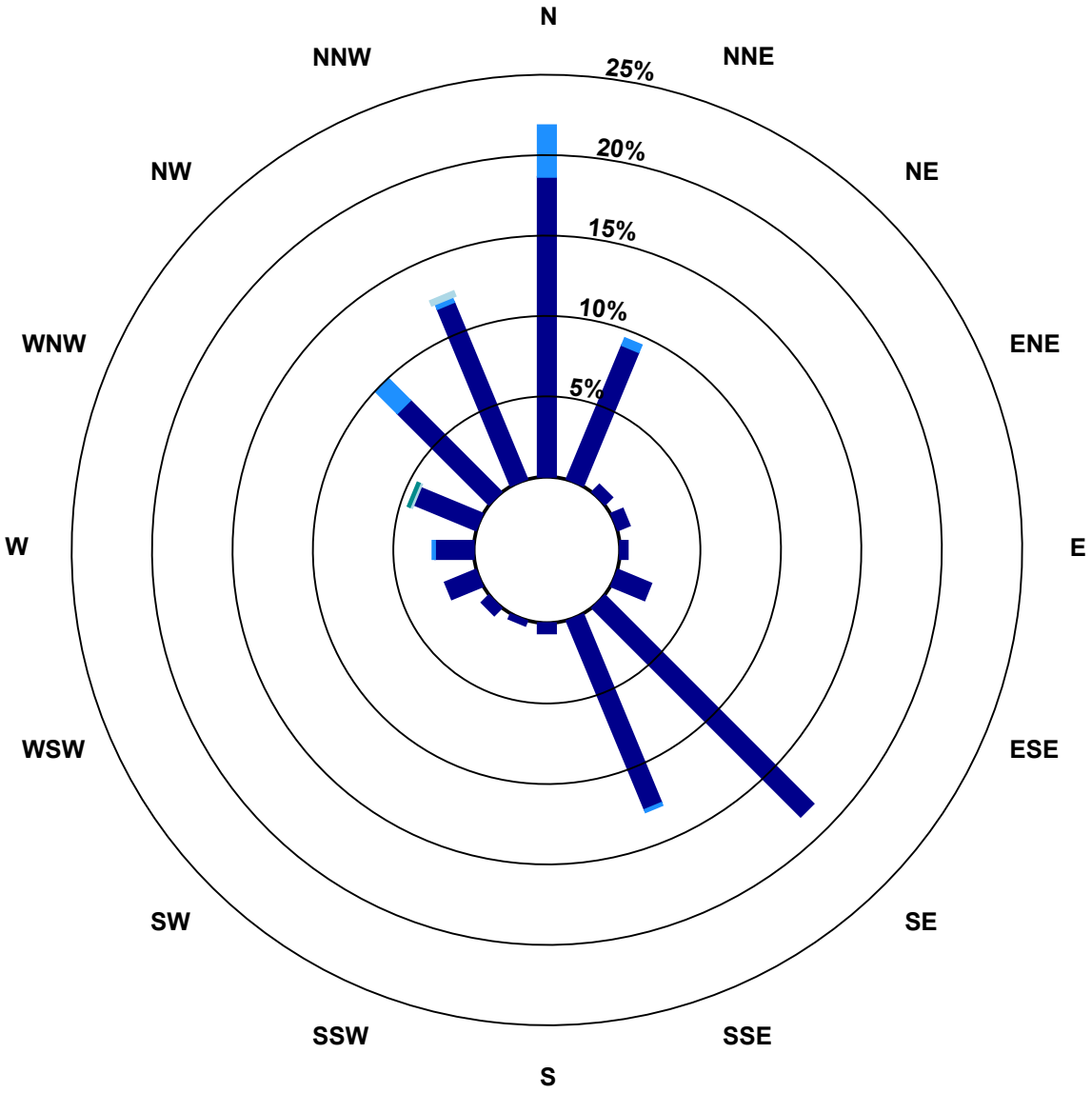
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Lower Camp



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

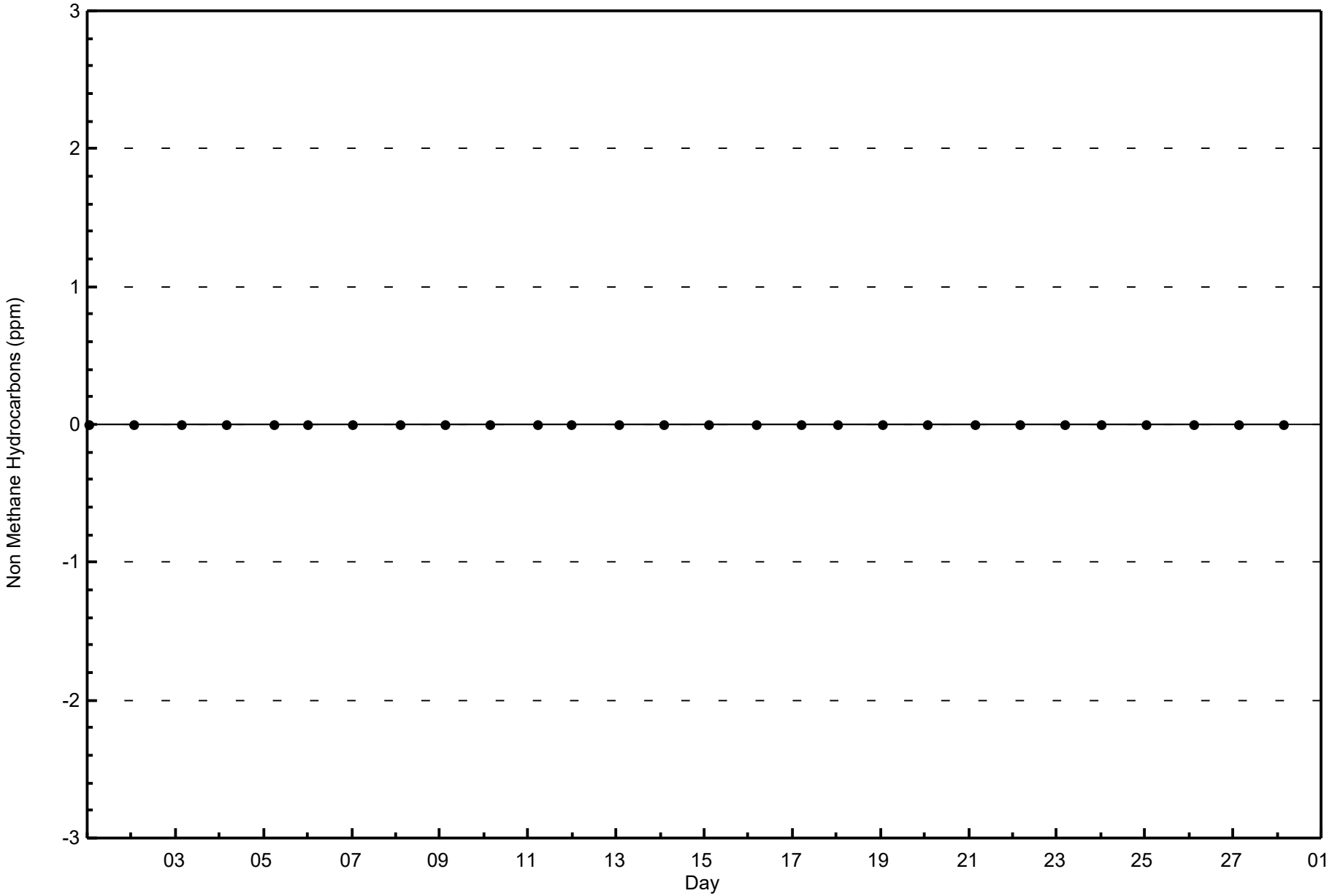
Total Number of Valid Hours: 622

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Lower Camp - February 2026

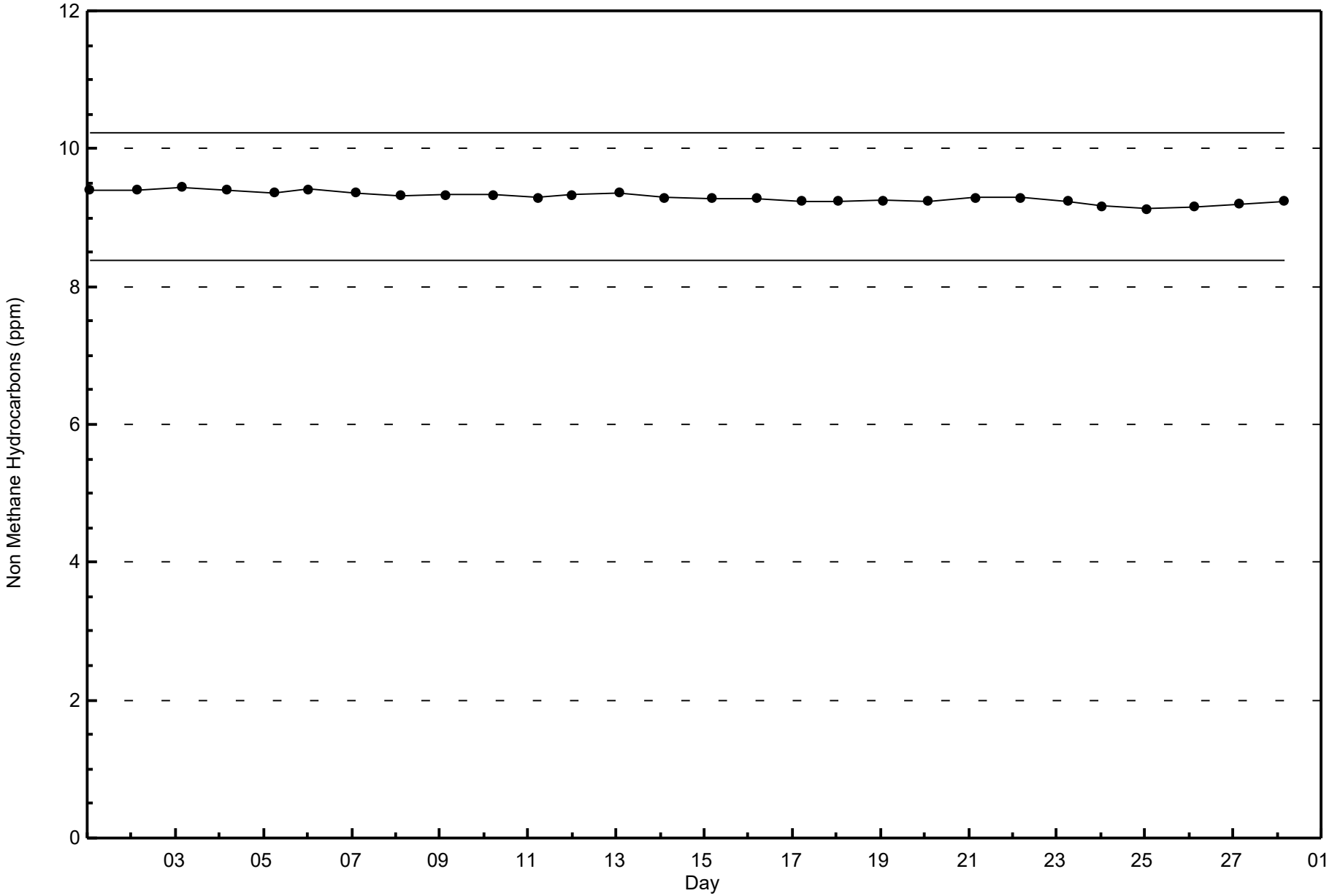


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Lower Camp - February 2026



Maximum Value: 8.8 C on Feb 4 16:00

Maximum Daily Average: 1.8 C on Feb 4

Minimum Value: -37.1 C on Feb 28 03:00

Minimum Daily Average: -30.2 C on Feb 18

Maximum Diurnal Average: -10.9 C at hour 16

Minimum Diurnal Average: -18.2 C at hour 8

Monthly Average: -15.22 C

Percentiles: P_1 = -36.5 P_{10} = -28.8 Q_1 = -23.0 Median = -14.4 Q_3 = -8.6 P_{90} = -2.8 P_{99} = 5.5

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

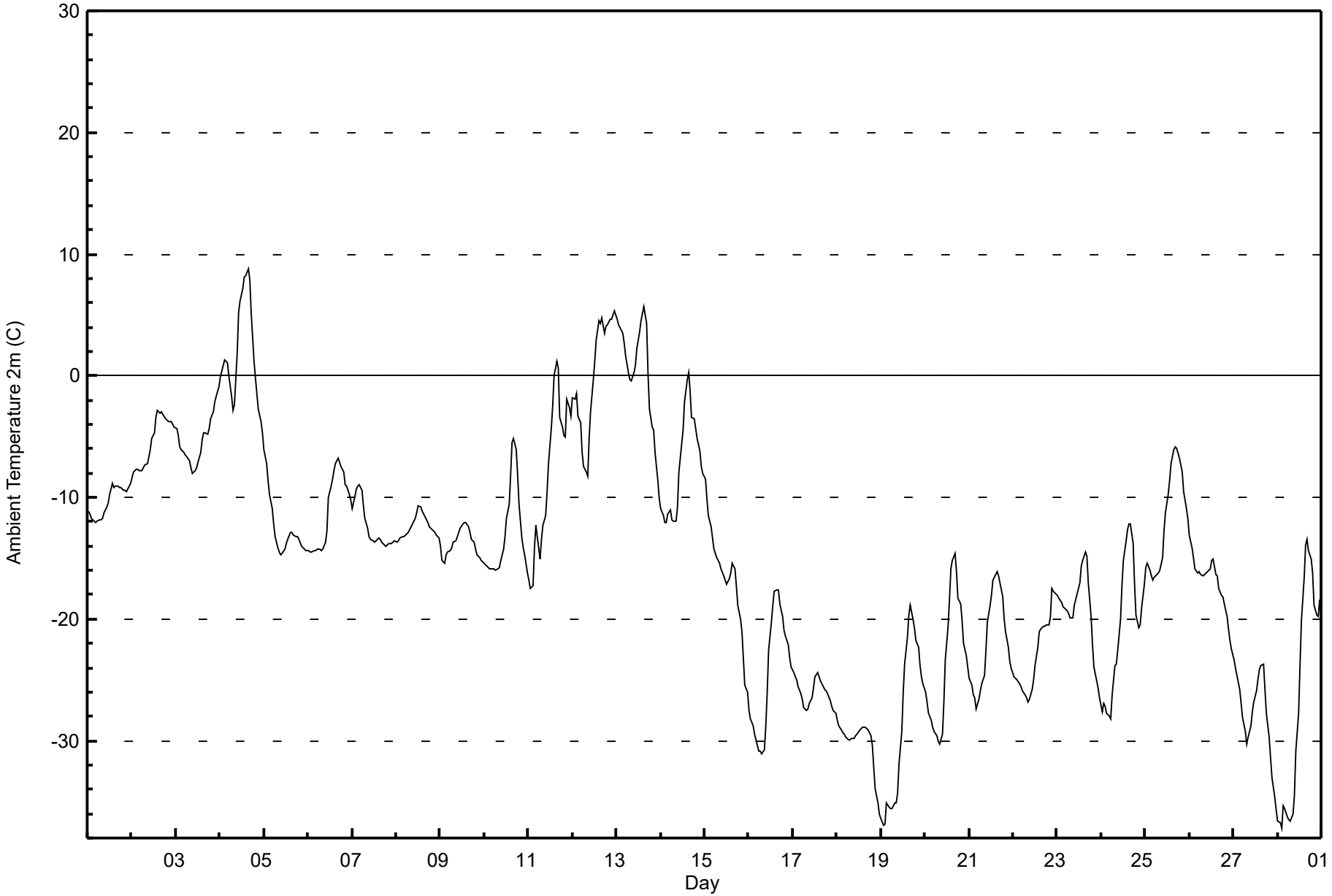
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.2	-11.4	-11.7	-12.0	-12.1	-12.0	-11.9	-11.8	-11.7	-11.2	-10.8	-10.4	-9.8	-8.9	-9.2	-9.0	-9.1	-9.2	-9.1	-9.4	-9.4	-9.5	-9.3	-8.8	-10.4	-8.8
2-Feb	-8.3	-7.9	-7.7	-7.7	-7.8	-7.8	-7.5	-7.3	-7.2	-6.7	-6.1	-5.2	-4.7	-3.5	-2.9	-3.1	-3.0	-3.2	-3.5	-3.7	-3.7	-3.8	-4.0	-4.2	-5.4	-2.9
3-Feb	-4.3	-4.9	-5.8	-6.1	-6.3	-6.5	-6.6	-7.0	-7.6	-8.1	-7.8	-7.6	-7.1	-6.3	-5.3	-4.7	-4.7	-4.8	-4.3	-3.5	-2.9	-2.2	-1.8	-0.9	-5.3	-0.9
4-Feb	-0.1	0.3	1.3	1.2	1.1	0.1	-1.7	-2.8	-2.4	1.8	5.3	6.1	7.2	8.1	8.3	8.8	7.9	5.1	1.1	-0.2	-1.5	-2.8	-3.7	-4.7	1.8	8.8
5-Feb	-6.1	-7.2	-8.6	-9.8	-11.0	-12.2	-13.2	-14.1	-14.5	-14.8	-14.6	-14.2	-13.8	-13.5	-12.8	-12.8	-13.1	-13.3	-13.3	-13.5	-14.0	-14.2	-14.3	-14.4	-12.6	-6.1
6-Feb	-14.3	-14.4	-14.5	-14.4	-14.3	-14.2	-14.2	-14.4	-14.3	-13.7	-12.8	-10.0	-9.1	-8.5	-7.8	-7.3	-6.8	-7.1	-7.5	-8.0	-8.9	-9.1	-9.8	-10.2	-11.1	-6.8
7-Feb	-10.9	-9.9	-9.4	-9.1	-9.0	-9.5	-10.7	-11.7	-12.5	-13.2	-13.5	-13.6	-13.7	-13.5	-13.4	-13.4	-13.7	-13.8	-14.0	-13.9	-13.7	-13.8	-13.6	-13.6	-12.4	-9.0
8-Feb	-13.6	-13.5	-13.3	-13.2	-13.3	-13.1	-12.8	-12.6	-12.5	-12.2	-11.7	-11.3	-10.7	-10.8	-11.2	-11.4	-11.8	-12.1	-12.5	-12.7	-12.7	-12.9	-13.1	-13.3	-12.4	-10.7
9-Feb	-14.0	-15.2	-15.4	-14.7	-14.5	-14.3	-14.1	-13.7	-13.6	-13.3	-12.8	-12.5	-12.2	-12.1	-12.1	-12.4	-12.9	-13.4	-13.6	-14.3	-14.7	-15.0	-15.2	-15.3	-13.8	-12.1
10-Feb	-15.5	-15.7	-15.8	-15.9	-15.9	-15.9	-16.0	-15.9	-15.7	-15.2	-14.3	-13.3	-11.7	-10.5	-8.2	-5.5	-5.2	-6.0	-8.1	-10.5	-13.4	-14.2	-14.7	-16.2	-12.9	-5.2
11-Feb	-16.8	-17.4	-17.3	-14.1	-12.3	-13.2	-15.0	-13.5	-12.3	-11.5	-9.5	-7.3	-4.4	-2.5	0.0	1.2	0.6	-3.4	-4.2	-4.9	-5.1	-2.0	-2.6	-3.3	-7.9	1.2
12-Feb	-1.9	-1.9	-1.5	-3.3	-3.9	-6.3	-7.5	-8.0	-8.3	-5.2	-2.9	-0.3	1.2	2.9	4.6	4.3	4.8	3.5	4.1	4.1	4.6	4.6	4.9	5.4	-0.1	5.4
13-Feb	4.6	4.2	3.9	3.5	2.7	1.7	0.3	-0.3	-0.4	0.3	0.8	2.3	3.6	4.5	5.1	5.7	4.3	0.2	-2.8	-4.2	-4.4	-6.3	-8.6	-10.1	0.4	5.7
14-Feb	-10.9	-11.5	-12.1	-12.0	-11.4	-11.0	-11.8	-11.9	-12.0	-10.8	-7.9	-5.6	-4.4	-2.2	-0.3	0.3	-1.2	-3.4	-3.6	-4.3	-5.2	-6.2	-7.4	-8.0	-7.3	0.3
15-Feb	-8.5	-10.1	-11.5	-12.4	-13.4	-14.3	-14.9	-15.1	-15.4	-15.8	-16.5	-16.8	-17.2	-16.7	-16.2	-15.4	-15.9	-17.3	-18.9	-20.0	-21.1	-23.2	-25.5	-26.0	-16.6	-8.5
16-Feb	-27.5	-28.2	-28.8	-29.5	-29.9	-30.9	-30.8	-31.0	-30.8	-28.8	-26.0	-22.6	-20.2	-18.8	-17.8	-17.6	-17.6	-18.7	-19.8	-20.9	-21.4	-22.1	-23.1	-23.9	-24.4	-17.6
17-Feb	-24.4	-24.7	-25.0	-25.6	-26.1	-26.6	-27.2	-27.5	-27.4	-27.0	-26.4	-25.7	-24.7	-24.3	-24.8	-25.1	-25.3	-25.8	-26.0	-26.1	-26.7	-27.1	-27.5	-27.8	-26.0	-24.3
18-Feb	-28.3	-28.8	-29.1	-29.3	-29.5	-29.7	-29.9	-29.9	-29.8	-29.8	-29.6	-29.5	-29.1	-29.0	-28.9	-28.9	-29.0	-29.2	-29.6	-30.4	-32.2	-34.0	-35.1	-36.1	-30.2	-28.3
19-Feb	-36.4	-37.0	-36.9	-35.2	-35.5	-35.6	-35.6	-35.2	-35.1	-34.4	-31.9	-29.2	-26.0	-23.7	-21.5	-19.7	-18.9	-20.1	-20.7	-21.7	-22.3	-23.9	-24.7	-25.3	-28.6	-18.9
20-Feb	-26.0	-26.8	-27.7	-28.3	-28.9	-29.2	-29.6	-30.1	-30.3	-29.5	-26.8	-23.4	-20.5	-18.4	-15.8	-15.1	-14.6	-16.2	-18.3	-18.8	-20.2	-22.0	-23.0	-23.9	-23.5	-14.6
21-Feb	-24.9	-25.4	-26.2	-26.5	-27.4	-26.6	-26.0	-25.3	-24.6	-22.6	-20.3	-18.8	-17.9	-16.8	-16.4	-16.1	-16.4	-17.1	-18.2	-20.0	-21.1	-22.3	-23.4	-24.0	-21.9	-16.1
22-Feb	-24.7	-24.9	-25.0	-25.4	-25.5	-25.9	-26.2	-26.5	-26.8	-26.6	-25.8	-25.0	-23.8	-22.3	-21.1	-20.9	-20.6	-20.6	-20.5	-20.5	-19.8	-17.5	-17.7	-18.0	-23.0	-17.5
23-Feb	-18.0	-18.3	-18.6	-19.0	-19.1	-19.3	-19.6	-19.9	-19.9	-18.9	-18.4	-17.9	-17.0	-15.7	-15.2	-14.5	-14.8	-17.0	-19.8	-22.0	-24.0	-25.1	-25.7	-26.5	-19.3	-14.5
24-Feb	-27.6	-26.9	-27.2	-27.7	-28.0	-28.2	-26.2	-23.8	-23.7	-22.5	-20.0	-17.3	-15.1	-13.5	-12.6	-12.1	-12.2	-13.8	-17.1	-19.7	-20.8	-20.4	-19.1	-17.1	-20.5	-12.1
25-Feb	-15.8	-15.4	-16.0	-16.4	-16.7	-16.6	-16.3	-16.2	-16.0	-15.0	-12.7	-11.2	-9.7	-8.6	-7.2	-6.1	-5.8	-6.0	-6.8	-7.3	-7.9	-9.6	-10.9	-11.8	-11.8	-5.8
26-Feb	-13.2	-14.2	-14.9	-15.9	-16.2	-16.0	-16.3	-16.4	-16.4	-16.2	-16.2	-15.9	-15.2	-15.1	-16.3	-16.5	-17.5	-18.0	-18.2	-18.8	-19.8	-20.8	-21.8	-22.4	-17.0	-13.2
27-Feb	-23.3	-24.0	-24.6	-25.8	-26.9	-28.1	-29.3	-30.3	-29.7	-28.8	-27.7	-26.8	-25.9	-25.0	-24.2	-23.8	-23.7	-25.8	-27.7	-29.8	-31.5	-33.0	-34.6	-35.7	-27.8	-23.3
28-Feb	-36.6	-36.8	-37.1	-35.3	-35.5	-36.3	-36.5	-36.7	-36.1	-34.5	-30.9	-27.8	-23.8	-20.2	-16.6	-13.9	-13.4	-14.3	-15.1	-16.2	-18.9	-19.7	-19.8	-18.4	-26.3	-13.4
	-16.4	-16.7	-17.0	-17.1	-17.4	-17.8	-18.1	-18.2	-18.1	-17.3	-16.0	-14.7	-13.4	-12.3	-11.4	-10.9	-11.1	-12.2	-13.1	-14.0	-14.7	-15.3	-15.9	-16.2	Diurnal Average	
	4.6	4.2	3.9	3.5	2.7	1.7	0.3	-0.3	-0.4	1.8	5.3	6.1	7.2	8.1	8.3	8.8	7.9	5.1	4.1	4.1	4.6	4.6	4.9	5.4	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Lower Camp - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	203	30.21	30.21
-20 - 0	422	62.80	93.01
0 - 10	47	6.99	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 97.1 % on Feb 4 09:00

Maximum Daily Average: 85.1 % on Feb 10

Minimum Value: 41.1 % on Feb 13 16:00

Minimum Daily Average: 55.6 % on Feb 13

Maximum Diurnal Average: 78.1 % at hour 8

Minimum Diurnal Average: 65.5 % at hour 16

Monthly Average: 74.15 %

Percentiles: P_1 = 45.6 P_{10} = 61.4 Q_1 = 67.7 Median = 75.2 Q_3 = 81.6 P_{90} = 86.3 P_{99} = 92.7

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

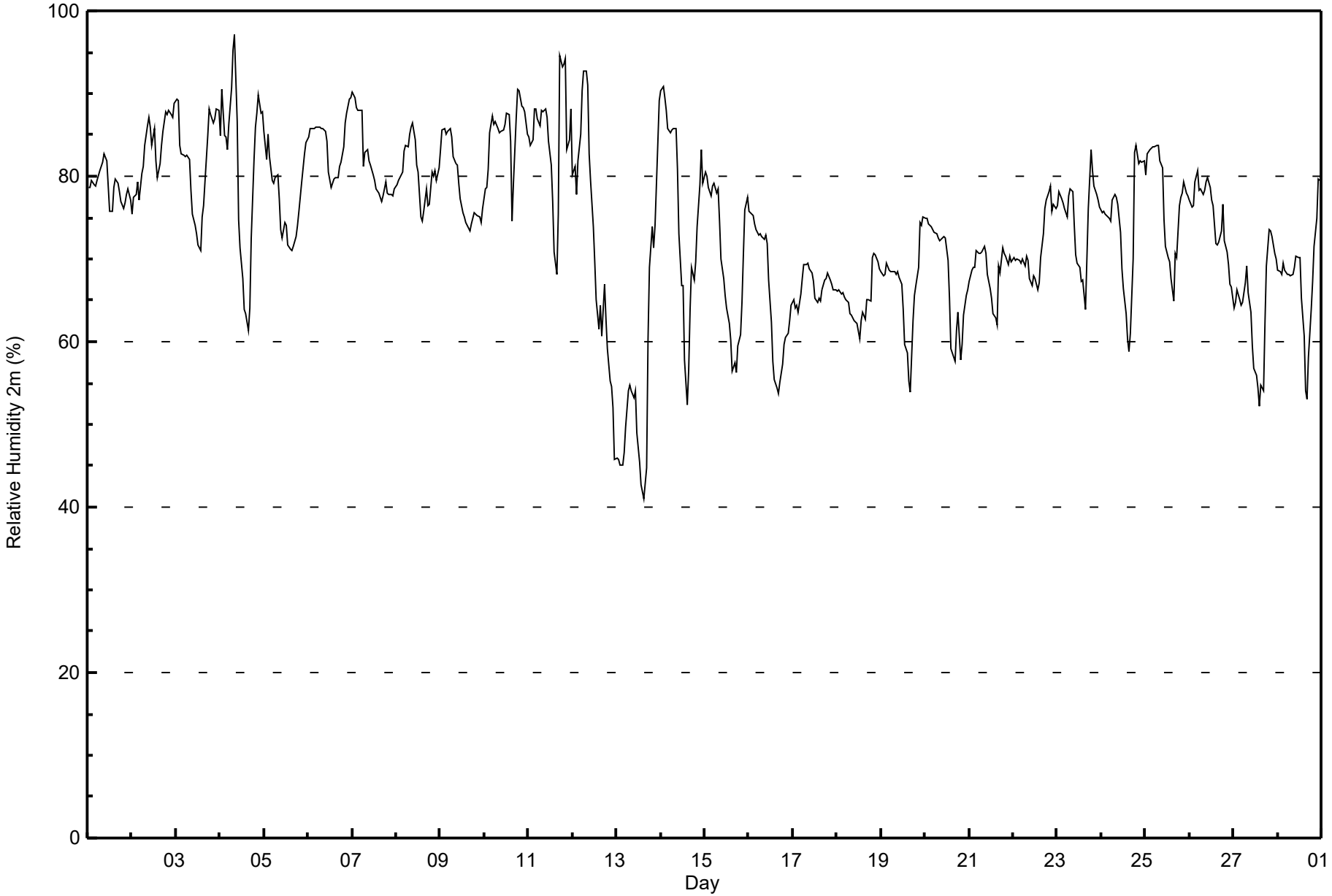
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	78.6	78.6	79.5	79.0	78.9	79.5	80.6	81.2	81.7	82.7	81.8	78.9	75.7	75.7	78.6	79.7	79.2	78.2	76.9	76.1	76.8	77.8	78.4	77.2	78.8	82.7
2-Feb	75.4	77.5	77.8	79.3	77.1	80.4	81.2	83.7	86.1	87.2	86.0	83.8	85.7	81.8	79.8	81.6	83.8	85.4	87.8	87.5	88.1	87.5	87.0	88.7	83.3	88.7
3-Feb	89.3	89.2	83.7	82.8	82.6	82.4	82.5	82.0	78.4	75.5	74.1	73.1	71.7	71.1	75.1	76.4	79.4	85.0	88.1	87.5	86.5	87.0	88.1	88.0	81.6	89.3
4-Feb	84.8	90.6	85.0	84.8	83.2	86.2	90.7	95.2	97.1	86.6	74.8	71.4	67.6	63.9	63.4	61.3	64.0	72.5	82.0	86.0	87.7	89.9	87.7	87.8	81.0	97.1
5-Feb	85.5	82.0	85.1	82.3	79.5	79.1	79.8	80.2	77.3	73.5	72.5	74.4	74.0	71.8	71.1	71.0	71.6	72.8	74.1	75.8	79.3	81.1	82.8	84.1	77.5	85.5
6-Feb	84.8	85.8	85.8	85.8	86.0	86.0	85.9	85.8	85.7	85.5	84.2	80.4	78.7	79.1	79.7	79.8	79.9	81.2	81.6	83.5	86.5	87.6	89.3	89.5	84.1	89.5
7-Feb	90.1	89.6	88.3	88.0	88.0	87.9	81.1	82.9	83.3	81.9	81.3	80.2	79.5	78.5	78.0	77.5	76.9	77.6	79.3	78.0	77.7	77.8	77.6	78.4	81.6	90.1
8-Feb	78.9	79.4	79.9	80.6	83.0	83.8	83.5	85.1	85.9	86.4	84.4	81.4	80.5	75.0	74.6	75.7	78.5	76.5	76.6	80.5	80.0	80.6	79.5	81.0	80.5	86.4
9-Feb	83.2	85.7	85.7	85.1	85.5	85.7	84.8	82.4	81.5	81.3	79.1	77.3	75.6	75.0	74.4	73.7	73.4	74.2	75.6	75.4	75.2	75.1	74.4	76.0	79.0	85.7
10-Feb	78.5	78.6	80.8	85.2	87.3	86.3	86.6	85.7	85.2	85.4	85.6	86.3	87.7	87.4	84.3	74.5	79.2	87.2	90.5	90.3	88.5	88.4	87.7	85.0	85.1	90.5
11-Feb	84.8	83.8	84.5	88.1	88.2	87.0	86.2	88.0	87.8	88.1	87.1	84.2	81.4	76.9	70.8	68.1	75.4	94.6	93.2	93.6	94.3	83.3	84.4	88.2	85.1	94.6
12-Feb	80.2	81.2	77.8	81.9	85.1	90.4	92.7	92.7	91.1	82.8	79.5	74.0	69.7	65.1	61.5	64.4	60.7	67.0	62.6	59.1	55.2	54.5	52.1	45.7	72.0	92.7
13-Feb	46.0	45.7	45.1	45.1	46.5	49.7	54.1	54.7	54.1	53.2	54.1	49.0	45.4	42.8	41.9	41.1	44.7	60.3	68.9	74.0	71.4	74.0	84.0	89.1	55.6	89.1
14-Feb	90.3	90.8	89.6	88.0	85.7	85.3	85.6	85.7	85.8	80.9	73.1	66.8	66.7	57.8	52.3	56.6	64.0	69.0	67.5	69.7	73.9	79.0	83.3	79.2	76.1	90.8
15-Feb	80.5	80.0	78.7	77.7	78.9	79.2	78.0	78.5	74.5	70.0	67.6	65.6	64.1	62.2	60.1	56.5	57.4	56.2	59.4	60.9	64.7	70.6	76.0	77.4	69.8	80.5
16-Feb	75.7	75.7	75.2	74.2	73.6	72.9	73.1	72.6	72.3	72.9	71.9	67.5	62.4	57.7	55.4	54.5	53.8	55.0	57.3	59.7	60.6	61.0	62.5	64.4	65.9	75.7
17-Feb	65.0	64.1	64.3	63.6	65.8	67.7	69.4	69.4	69.6	68.9	68.3	67.3	65.3	64.7	65.2	65.0	66.2	67.4	67.6	68.4	67.5	67.0	66.3	66.2	66.7	69.6
18-Feb	66.0	66.3	65.8	65.8	65.4	65.1	64.7	63.4	63.2	62.6	62.4	62.2	60.3	62.6	63.6	62.7	65.0	65.2	64.9	70.2	70.7	70.5	69.6	68.9	65.3	70.7
19-Feb	68.5	68.0	68.2	69.5	68.6	68.4	68.4	68.5	68.1	68.4	67.8	67.0	63.9	59.7	58.7	55.2	53.9	62.6	65.5	66.7	69.1	74.4	74.1	75.1	66.6	75.1
20-Feb	75.0	74.9	74.3	73.9	73.6	73.3	73.0	72.5	72.2	72.5	72.7	72.5	69.9	65.2	59.2	58.6	57.6	61.3	63.6	57.8	59.7	63.3	65.6	66.3	67.9	75.0
21-Feb	67.2	68.6	69.0	68.9	71.1	70.6	70.7	70.9	71.5	70.8	68.1	66.4	65.3	63.5	62.9	62.0	69.2	68.3	71.3	70.7	70.3	69.4	70.3	69.7	68.6	71.5
22-Feb	70.2	69.9	69.9	69.9	69.5	70.0	69.2	70.3	69.9	67.6	66.8	67.9	67.6	66.3	67.1	70.2	73.0	76.1	77.1	78.1	78.8	75.7	76.5	76.2	71.4	78.8
23-Feb	76.5	78.1	77.3	76.8	76.1	75.0	77.6	78.5	78.1	74.0	70.5	69.5	68.9	67.2	67.4	63.9	69.9	76.2	83.2	80.7	78.9	77.8	77.2	76.2	74.8	83.2
24-Feb	75.6	75.8	75.4	75.2	74.9	74.6	77.1	77.8	77.5	76.6	73.2	68.8	66.4	63.4	60.4	58.8	61.0	70.0	82.9	83.7	81.6	81.9	81.6	81.9	74.0	83.7
25-Feb	80.1	82.7	83.2	83.5	83.5	83.5	83.7	83.7	81.9	81.0	74.8	71.5	70.1	69.6	67.6	64.9	70.6	70.2	76.4	77.4	78.0	79.4	78.0	77.5	77.2	83.7
26-Feb	77.2	76.2	76.4	79.3	80.7	78.3	78.5	77.7	78.4	79.3	79.9	78.7	77.1	76.5	71.9	71.8	72.0	73.4	76.5	72.2	70.8	69.3	67.0	66.6	75.2	80.7
27-Feb	64.1	64.7	66.3	65.1	64.5	64.7	67.2	69.1	66.0	63.6	59.5	56.8	56.0	54.4	52.3	54.8	54.0	62.2	69.2	73.5	73.4	72.7	70.7	70.0	63.9	73.5
28-Feb	68.7	68.4	68.2	69.5	68.7	68.2	68.1	68.0	68.2	69.0	70.3	70.2	70.1	65.3	60.6	54.0	53.1	58.1	64.0	67.2	71.6	74.9	79.6	79.4	67.6	79.6
	76.5	76.9	76.5	76.8	76.8	77.2	77.6	78.1	77.6	76.0	74.0	71.9	70.3	67.9	66.4	65.5	67.4	71.6	74.4	75.1	75.6	76.1	76.8	76.9	Diurnal Average	
	90.3	90.8	89.6	88.1	88.2	90.4	92.7	95.2	97.1	88.1	87.1	86.3	87.7	87.4	84.3	81.6	83.8	94.6	93.2	93.6	94.3	89.9	89.3	89.5	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Lower Camp - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Barometric Pressure (BP) - inHg

Lower Camp - February 2026

Maximum Value: 30.2 inHg on Feb 22 00:00

Maximum Daily Average: 30.0 inHg on Feb 21

Minimum Value: 28.6 inHg on Feb 25 15:00

Minimum Daily Average: 28.6 inHg on Feb 25

Maximum Diurnal Average: 29.2 inHg at hour 10

Minimum Diurnal Average: 29.2 inHg at hour 16

Monthly Average: 29.21 inHg

Percentiles: P_1 = 28.6 P_{10} = 28.9 Q_1 = 29.0 Median = 29.2 Q_3 = 29.4 P_{90} = 29.6 P_{99} = 30.1

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

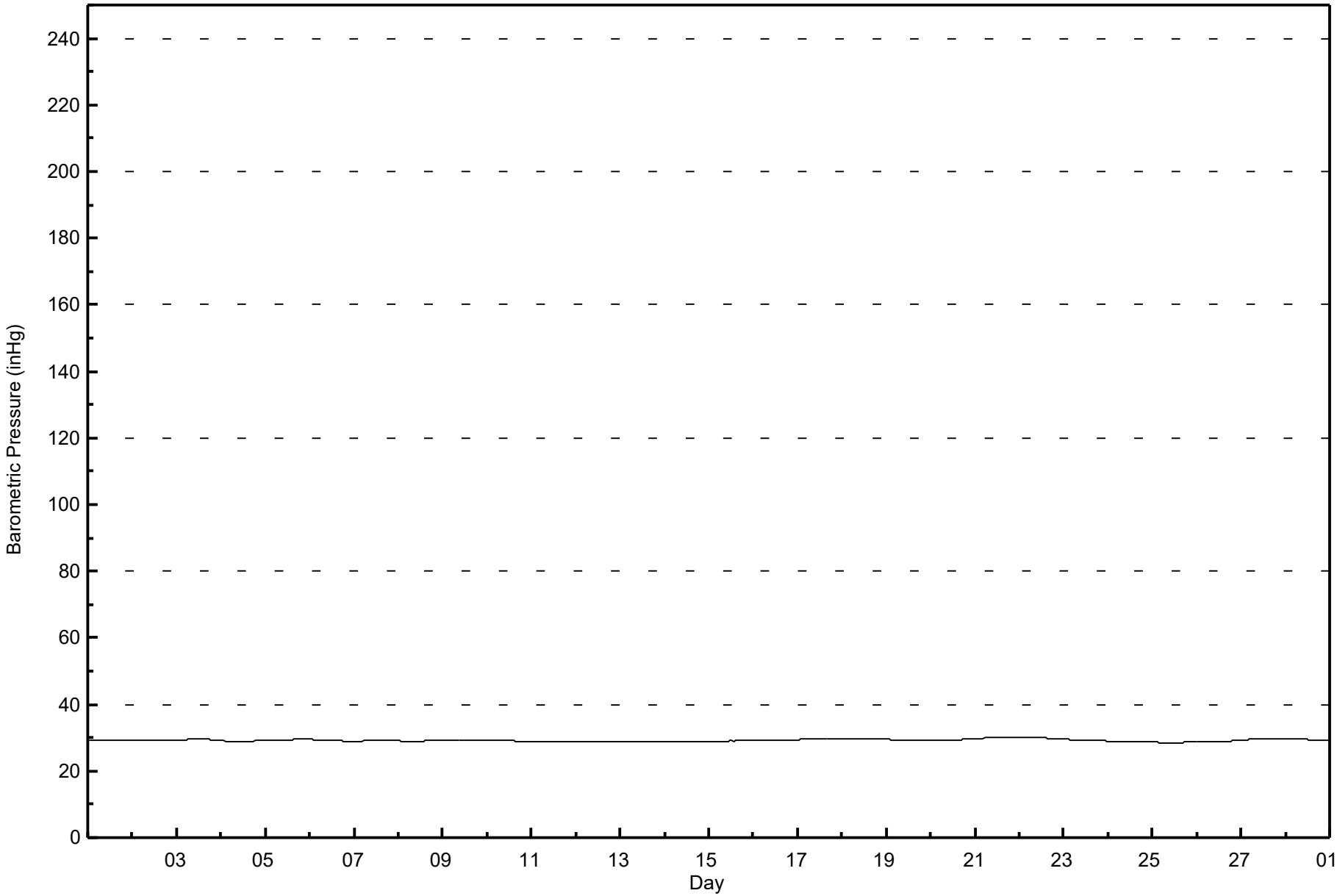
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.4
2-Feb	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.1	29.2
3-Feb	29.3	29.3	29.3	29.4	29.4	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.4	29.4	29.3	29.3	29.2	29.2	29.4	29.5
4-Feb	29.1	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.0	29.1
5-Feb	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.3	29.5
6-Feb	29.5	29.4	29.4	29.4	29.4	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.2	29.5
7-Feb	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.1	29.1	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.1	29.2
8-Feb	29.0	29.0	29.0	29.0	29.0	29.0	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.0	29.2
9-Feb	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.3
10-Feb	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.3
11-Feb	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0
12-Feb	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.8	28.8	28.9	29.0
13-Feb	28.8	28.8	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	28.9	29.0
14-Feb	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.0
15-Feb	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.0	29.2
16-Feb	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.3	29.4
17-Feb	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.6	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.6	29.6	29.5	29.5	29.5	29.5	29.6
18-Feb	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
19-Feb	29.5	29.5	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.5
20-Feb	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.5	29.5	29.5	29.6	29.6	29.6	29.7	29.4	29.7
21-Feb	29.7	29.8	29.8	29.8	29.9	29.9	29.9	29.9	30.0	30.0	30.0	30.0	30.0	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.2	30.2	30.2	30.0	30.2
22-Feb	30.2	30.2	30.2	30.2	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.0	30.0	29.9	29.9	29.9	29.8	29.8	29.8	29.7	29.7	29.6	29.6	29.6	29.9	30.2
23-Feb	29.5	29.5	29.5	29.4	29.4	29.4	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.2	29.5
24-Feb	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.8	28.8	28.7	28.7	28.7	28.7	28.9	29.0
25-Feb	28.7	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.7	28.7	28.7	28.6	28.7
26-Feb	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.6	28.6	28.6	28.6	28.6	28.7	28.7	28.8	28.8	28.9	29.0	29.0	29.1	29.2	29.2	29.3	28.8	29.3
27-Feb	29.3	29.4	29.4	29.4	29.5	29.5	29.5	29.5	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.5	29.6
28-Feb	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.5	29.5	29.4	29.4	29.4	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.4	29.6
	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	Diurnal Average	
	30.2	30.2	30.2	30.2	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.0	30.0	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.2	30.2	30.2	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Barometric Pressure (BP) - inHg

Lower Camp - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Lower Camp - February 2026

Maximum Speed: 28 km/h on Feb 17 13:00

Maximum Daily Speed Average: 20.1 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 6 20:00

Minimum Daily Speed Average: 0.3 km/h on Feb 4

Maximum Diurnal Speed Average: 3.5 km/h at hour 20

Minimum Diurnal Speed Average: 1.4 km/h at hour 5

Monthly Average Velocity: 2.6 km/h 30.1 deg

Percentiles: $P_1 = 1$ $P_{10} = 3$ $Q_1 = 5$ Median = 9 $Q_3 = 13$ $P_{90} = 19$ $P_{99} = 25$

Hours in Service:	672
Hours of Data:	656
Hours of Missing Data:	16
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ENE6	E5	ESE6	ESE5	ESE8	ESE9	SE6	ESE7	SE10	SE19	SE24	SE21	SE19	SE19	SE24	SE22	SE22	SE21	SE25	SE25	SE28	SE26	SE21	SSE15	SE16.0	SE28
2-Feb	SSE14	SSE15	SE21	SE18	SSE17	SE19	SE15	SE15	SE14	SE10	SE10	SE6	SE9	SE9	SE8	SE7	ESE4	UO	NW3	WNW4	NW5	NNW6	NNW6	N6	SE7.9	SE21
3-Feb	N6	NNE12	NNE9	N8	NNW5	N7	NNE6	NNE8	NNE9	NNE6	NNE5	NNW5	NW4	SSE1	SE7	SE6	NE1	SE5	SE8	SE9	SSE11	SE15	SE17	SE20	E3.1	SE20
4-Feb	SSE11	SE20	SSE21	SE19	SE16	SE12	SSE1	ENE3	SE4	W8	WNW13	W12	SE4	SSW2	W12	WSW13	W13	NW9	N16	N15	NNE15	NNE17	NNE15	NNE16	NE0.3	SSE21
5-Feb	N17	NNE16	N16	NNE18	N18	N16	N17	N15	NNE15	N16	NNE12	NNE12	NNE10	N7	NNE5	NNE7	NE8	ENE6	NNE5	NNE9	NNE6	N5	NNW5	NNW5	NNE10.7	NNE18
6-Feb	NW6	NW5	NW3	NNW4	NW3	NW3	NNW4	NW4	NNW4	NNW4	N6	SE16	SE17	SE21	SE15	SE14	SE9	SE6	W0	N0	NNW2	NW3	WNW4	WNW3	ESE1.9	SE21
7-Feb	NW3	W4	NW4	WNW3	NNW5	NNE11	NNW10	NNE14	N14	NNE13	NNE14	N13	N12	NNE13	NNE12	N11	N11	N9	N8	N8	N9	NNW8	N7	NNW7	N8.7	NNE14
8-Feb	NNW9	NNW7	NNW7	NW8	NW9	NW9	NW8	NNW7	NNW4	N6	NW9	NW11	NNW10	N11	N10	N11	N10	N9	N8	NNE6	N7	NNE6	NNE4	NNE3	NNW7.3	N11
9-Feb	NW3	WNW2	NW3	WNW3	NW2	WNW2	NW3	N3	N4	N4	N8	N9	N10	N12	N11	N11	N12	N10	N10	N11	N9	N8	NNW7	N8	N6.6	N12
10-Feb	NNW7	NNW6	NW7	NNW7	NNW6	NNW5	N5	N4	NNW3	N3	NNW3	N2	N2	N2	WNW2	SSE3	SSE4	S3	SE2	NW4	WNW2	SSE2	ESE2	NW2	NNW2.3	NNW7
11-Feb	NW4	WNW2	E1	SSE9	SSE13	SE5	ESE3	SE9	SSE12	SSE12	SSE19	SE20	SE18	SE16	SE10	SE7	SSE5	E3	UO	SE2	SE5	SSE10	SE3	SE6	SE7.8	SE20
12-Feb	SSE13	SSE10	SSE10	SSE8	SSE7	SE7	SE6	SSE7	SSE10	SE14	SE15	SE15	SE14	SSE12	S6	SSE12	SSE10	SSE11	SSE12	SSE13	SSE12	SSE9	SW12	WSW19	SSE9.7	WSW19
13-Feb	SW14	WSW19	W22	WSW24	W23	W21	W15	WSW10	WSW8	W11	W16	WSW16	W13	WSW11	WSW10	SW7	SW8	ENE1	N2	SE4	SSE4	W2	NNW1	ESE1	WSW10.0	WSW24
14-Feb	SE2	ESE1	SE3	SE5	SE7	SE8	SE10	SSE6	SE8	SE7	SE5	SE4	N3	NW2	ESE0	NW2	WNW2	NW6	WNW5	WNW6	W6	WNW2	NNW4	NNW6	SSE1.1	SE10
15-Feb	NNW5	N13	N12	N11	N12	NNE11	NNW9	NNW9	NNE13	NNE13	NNE14	N13	N11	N9	NNW8	WNW8	NNW6	N8	NNW5	N5	NW5	NNW3	NNW2	NW4	N8.0	NNE14
16-Feb	NNW2	NNW3	NW4	NW3	NNW4	NNE2	NW5	NW4	NNW3	NNW4	NNW4	NW6	WNW9	NW9	NNW12	NNW12	N14	N12	NNW9	NNW11	NNW10	N12	N13	N17	NNW7.2	N17
17-Feb	N14	N15	NNE13	N13	N11	N18	N17	N15	NNE16	NNE19	NNE23	NNE25	NNE28	NNE22	N23	N24	N27	N23	N22	NNE21	N24	N22	N25	NNE24	N20.1	NNE28
18-Feb	NNE26	N26	N24	N22	N22	N23	N25	N25	NNE22	N22	NNE21	N21	NNE21	N16	N17	N14	NNW12	N10	NNW8	WNW6	WNW2	N1	UO	UO	N17.2	N26
19-Feb	SE0	ESE2	SE4	SSE8	SSE9	SSE11	SSE9	SE15	SE17	SSE15	SE16	SE15	SE14	SE18	SE17	SE12	SSE8	S7	SSE9	SSE10	SSE10	SE7	SE7	SSE9	SE10.3	SE18
20-Feb	SSE12	SSE12	SE14	SSE13	SSE14	SSE9	SSE10	SE10	SSE10	SSE7	SSE9	SE5	SE3	N2	WNW4	W9	NNW7	NW8	NNW8	NNW9	N10	NNW8	NNW8	NNW7	SSE2.1	SSE14
21-Feb	NW6	NW7	NNW6	NW6	NW5	NW2	NNW2	NNW4	NW5	WNW6	WNW6	WNW8	NNW10	N12	NNE15	NNE16	NE12	NNE13	NNE15	NNE15	N15	NNE15	N13	N12	N8.1	NNE16
22-Feb	N9	NNW9	NNW8	NNW9	NNW9	NNW10	N10	NNW9	NNW9	NNW9	NW10	NW11	NW12	NW11	NW11	NW10	NW7	NW7	NW6	NW4	N2	SE18	SE19	SE20	NNW5.1	SE20
23-Feb	SE15	SE8	SE11	SSE6	SSE7	SE6	SE4	SSW2	N2	SSE2	WSW5	NW4	WNW3	WSW6	WSW5	ESE1	SSE7	SSE3	ENE1	WNW3	UO	UO	NW3	UO	SSE2.7	SE15
24-Feb	UO	UO	UO	UO	UO	UO	SE9	SSE11	SSE13	SSE12	SE13	SE12	SE11	SE11	SE12	SE12	SE7	SSE4	SE2	SE3	SE6	SE3	S0	SW0	SE7.7	SE13
25-Feb	E1	NW4	NW4	NW2	NW4	WNW4	NNW2	UO	UO	WNW0	SE10	SE13	SE13	SE8	SE6	SE5	SE7	N3	NNW9	N9	N13	N15	N14	N14	NE2.2	N15
26-Feb	NNE18	N14	N12	NNW9	NW10	N11	N11	N10	N11	N11	N15	N17	N23	NNE22	N25	NNE20	N23	N24	N19	N25	N24	NNW21	N19	N18	N16.8	N25
27-Feb	N24	N16	N13	N15	N12	N11	N7	NW6	NNW5	N7	NNW11	NNW9	NNW8	NNW8	WNW7	W11	NW3	W7	WNW2	NW2	NNW2	NW4	NNW2	N1	NNW7.1	N24
28-Feb	NE1	UO	ESE3	SSE8	SSE9	SSE11	SSE10	SSE10	SSE11	SSE9	SSE10	SE15	SE17	SE18	SSE16	SSE12	SSE11	SSE8	SSE9	SSE10	SE8	SE8	SE13	SSE13	SSE10.3	SE18
	NNE3.3	NNE3.2	NNE2.3	NNE1.8	NNE1.4	NNE2.4	NNE2.6	NE2.4	ENE2.7	NE2.4	NE2.4	NE2.3	NE3.2	ENE3.0	NE2.3	NE1.5	NNE2.6	NNE3.4	N3.4	NNE3.5	NNE3.4	NE3.4	NNE3.3	NNE3.0	Diurnal Average	
	NNE26	N26	N24	WSW24	W23	N23	N25	N25	NNE22	N22	SE24	NNE25	NNE28	NNE22	N25	N24	N27	N24	SE25	SE25	SE28	SE26	N25	NNE24	Diurnal Maximum	

UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Lower Camp - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 7 km/h on Feb 18 03:00

Minimum Value: 0 km/h on Feb 10 11:00

Percentiles: $P_1 = 1$ $P_{10} = 1$ $Q_1 = 2$ Median = 2 $Q_3 = 3$ $P_{90} = 4$ $P_{99} = 6$

Hours in Service:	672
Hours of Data:	656
Hours of Missing Data:	16
Hours of Calibration:	0
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	2	2	1	3	2	2	2	4	4	3	3	3	4	3	3	3	3	4	3	3	3	3	4	4
2-Feb	4	4	4	3	4	3	2	2	2	2	2	3	2	2	2	2	1	UO	1	1	1	2	1	1	4
3-Feb	2	3	2	3	1	2	2	2	2	2	1	2	1	1	3	2	1	3	2	2	3	4	3	4	4
4-Feb	5	4	5	4	3	4	2	1	2	5	3	5	2	2	3	2	4	4	4	3	3	3	3	3	5
5-Feb	3	3	3	4	4	4	5	4	3	4	4	2	2	2	2	2	3	2	1	2	2	1	1	1	5
6-Feb	1	1	1	1	1	1	1	1	1	1	2	4	4	4	4	4	3	3	1	1	1	2	1	2	4
7-Feb	2	1	2	1	2	3	2	3	4	3	3	3	3	3	2	3	2	2	2	2	2	2	1	1	4
8-Feb	2	1	1	1	1	1	2	1	1	1	3	2	2	3	2	2	3	2	1	1	2	1	1	1	3
9-Feb	1	1	1	1	1	1	1	2	1	1	2	2	2	2	2	2	3	3	2	2	2	2	2	2	3
10-Feb	2	1	1	1	1	1	1	1	1	1	0	1	1	1	2	3	1	1	2	2	2	2	2	1	3
11-Feb	2	2	1	5	5	2	1	3	2	3	2	2	2	2	2	2	2	2	UO	1	4	2	2	3	5
12-Feb	3	2	2	2	2	2	2	3	3	2	1	1	2	3	2	3	3	3	3	3	3	3	5	4	5
13-Feb	4	6	4	5	4	4	3	4	4	6	3	4	3	2	2	2	2	1	1	2	2	2	1	1	6
14-Feb	1	1	2	2	2	4	2	2	3	2	2	2	1	2	1	2	2	2	1	1	1	2	3	4	4
15-Feb	4	3	3	3	4	3	2	2	3	3	3	3	2	2	2	2	2	2	2	2	1	2	2	1	4
16-Feb	1	1	1	1	1	1	1	2	1	1	1	2	2	2	3	3	3	3	2	2	2	3	3	3	3
17-Feb	3	3	3	4	3	4	5	4	4	3	5	5	6	5	5	5	6	5	5	5	5	5	5	6	6
18-Feb	6	6	7	6	6	5	5	6	5	5	5	4	5	4	4	4	3	3	2	1	2	1	UO	UO	7
19-Feb	1	1	2	1	2	3	2	2	2	2	2	3	2	2	2	3	2	1	2	2	3	2	2	3	3
20-Feb	2	2	2	4	3	2	2	2	3	1	3	1	1	1	2	2	2	2	2	2	3	2	2	1	4
21-Feb	1	1	1	1	1	1	1	1	1	1	2	2	2	3	3	3	3	4	3	3	3	4	3	2	4
22-Feb	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	4	3	2	2	4
23-Feb	3	2	2	3	3	3	1	1	1	1	2	1	1	1	2	2	3	2	1	2	UO	UO	2	UO	3
24-Feb	UO	UO	UO	UO	UO	UO	3	2	2	2	1	1	1	1	1	2	2	3	2	1	2	1	1	1	3
25-Feb	1	1	2	1	1	1	1	UO	UO	1	3	2	2	2	1	1	2	3	2	2	4	3	3	3	4
26-Feb	3	3	3	2	2	3	3	3	2	2	4	5	5	6	6	5	6	6	5	7	6	5	5	6	7
27-Feb	5	6	4	4	3	3	2	1	1	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	6
28-Feb	1	UO	1	3	2	2	2	2	2	2	3	2	2	2	3	3	3	1	2	2	3	2	2	2	3
	6	6	7	6	6	5	5	6	5	6	5	5	6	6	6	5	6	6	5	7	6	5	5	6	
	Diurnal Maximum																								

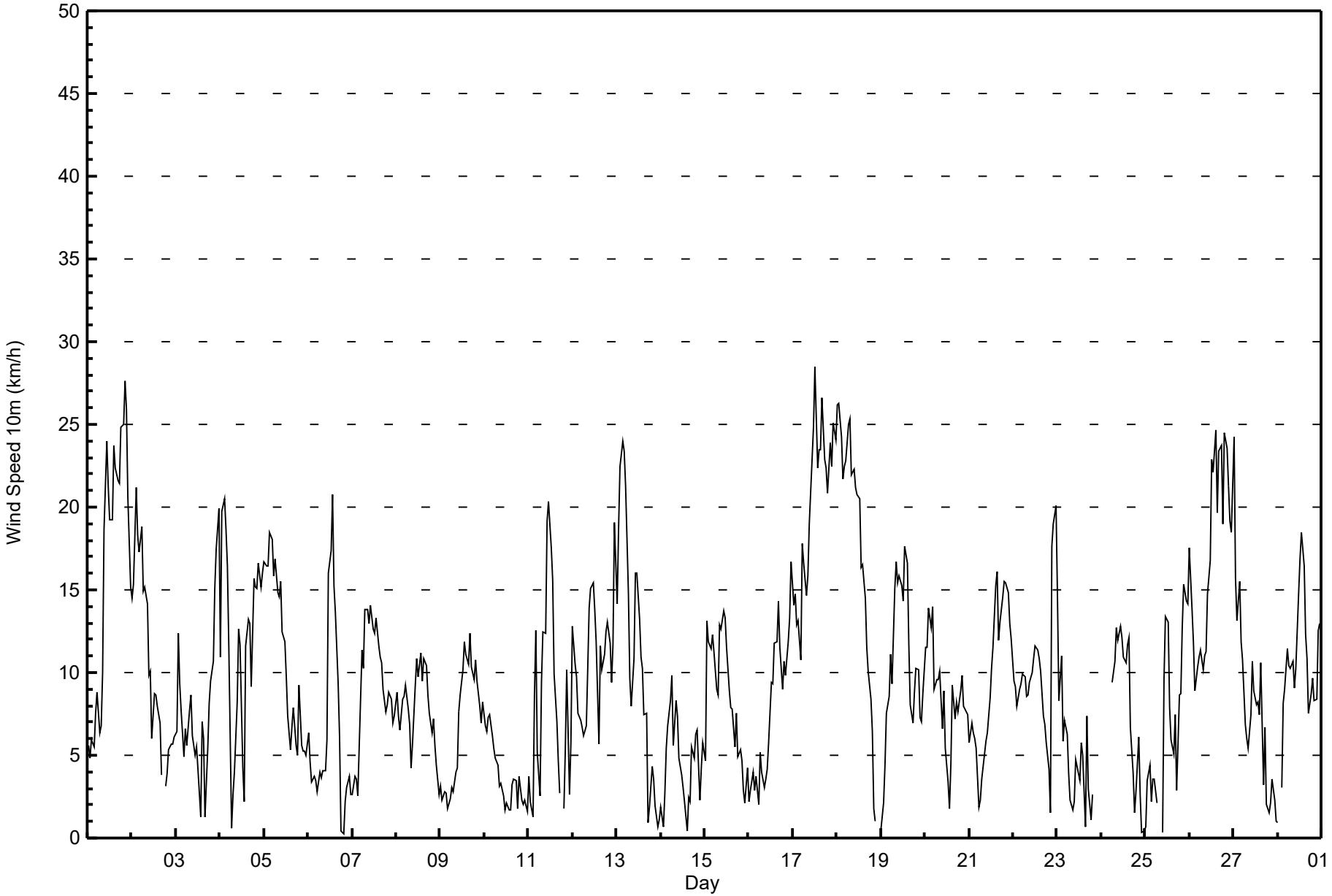
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Lower Camp - February 2026



Wind Speed 10m (WS10) - km/h
Lower Camp - February 2026

Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	179	27.29	27.29
6 - 11	252	38.41	65.70
12 - 19	166	25.30	91.01
20 - 28	59	8.99	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 656

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Lower Camp - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	20	6	2	3	4	10	23	10	2	2	1	2	3	20	38	33	179
6 - 11	49	14	1	2	0	5	40	46	2	0	2	5	6	8	26	46	252
12 - 19	51	28	1	0	0	0	44	25	0	0	1	5	6	1	1	3	166
20 - 28	24	12	0	0	0	0	17	1	0	0	0	2	2	0	0	1	59
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	144	60	4	5	4	15	124	82	4	2	4	14	17	29	65	83	656

Total Number of Valid Hours: 656

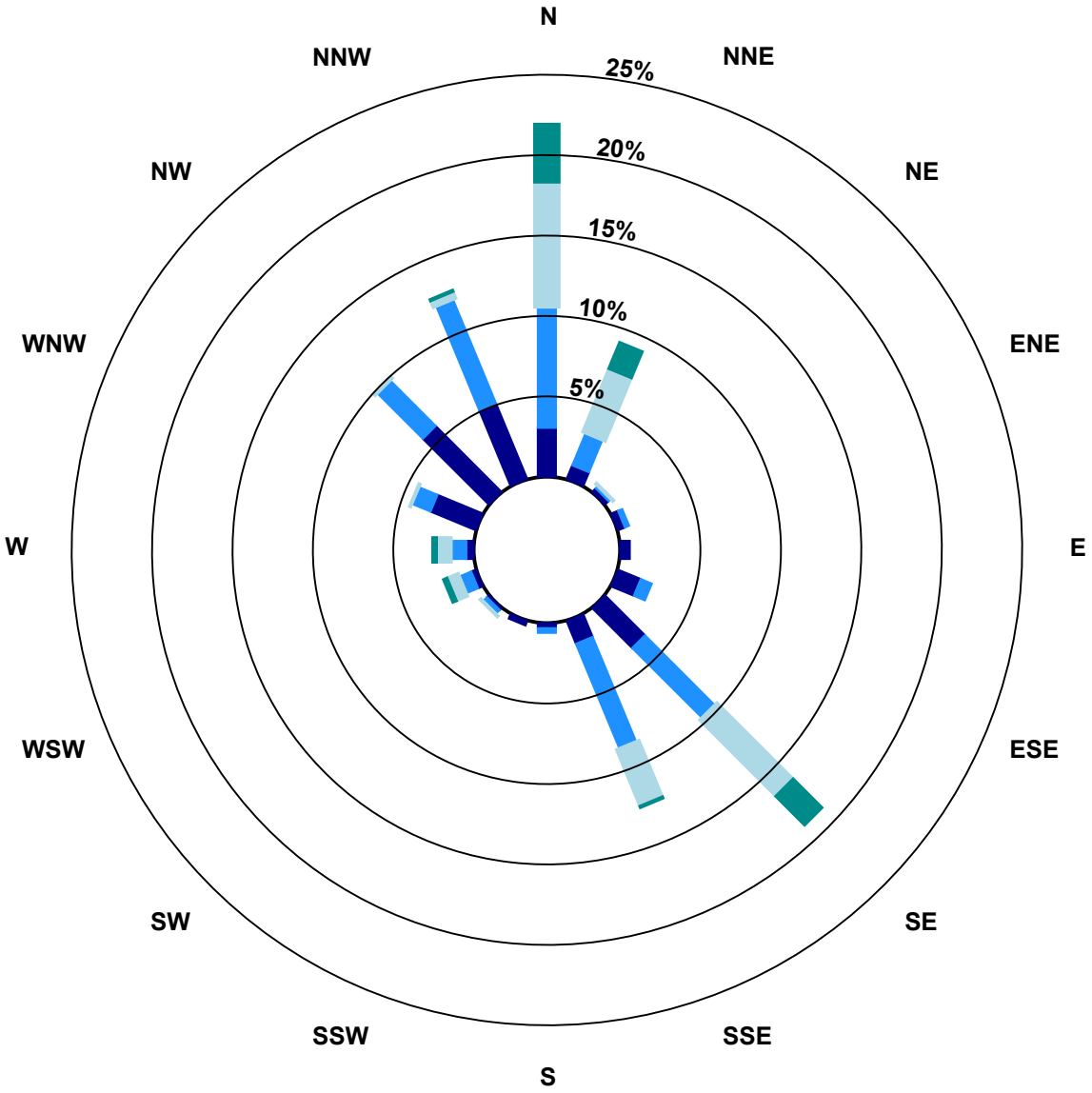
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Lower Camp



Classes (km/h)

0 - 5

6 - 11

12 - 19

20 - 28

29 - 38

> 38

Total Number of Valid Hours: 656

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Lower Camp - February 2026

Direction of Maximum Speed: 17 deg on Feb 17 13:00
Direction of Maximum Daily Speed Average: 10.0 deg on Feb 17

Direction of Minimum Speed: 360 deg on Feb 6 20:00
Direction of Minimum Daily Speed Average: 0.3 deg on Feb 4

Monthly Average Direction: 30.1 deg

Hours in Service:	672
Hours of Data:	656
Hours of Missing Data:	16
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	74	88	111	114	123	114	141	111	129	133	135	140	130	133	135	134	134	137	137	133	138	135	134	147	132.5
2-Feb	163	151	146	140	150	136	134	132	139	145	140	124	139	135	131	144	111	UO	326	286	307	348	342	0	139.5
3-Feb	355	23	17	3	338	6	16	27	28	12	15	327	325	149	140	143	36	128	141	144	147	146	139	144	85.6
4-Feb	159	145	149	146	146	146	163	70	129	278	282	270	140	199	262	254	263	320	3	5	12	13	28	17	51.8
5-Feb	10	12	4	14	10	355	357	359	18	11	22	25	17	0	14	24	52	62	15	21	19	8	344	334	11.4
6-Feb	320	309	321	331	318	325	332	320	329	335	351	128	129	130	133	136	136	142	263	360	333	322	302	303	116.3
7-Feb	304	274	314	303	348	12	344	27	3	12	15	7	6	26	13	4	357	8	359	354	359	341	350	329	1.4
8-Feb	329	332	333	319	324	325	325	329	334	351	318	326	337	0	353	11	10	3	8	12	4	13	16	32	345.6
9-Feb	307	294	310	294	304	302	326	356	359	2	6	355	1	8	0	354	1	359	354	3	359	357	340	357	353.5
10-Feb	347	330	322	330	329	338	357	2	342	352	345	352	3	356	298	158	152	169	125	325	295	165	109	319	338.8
11-Feb	312	299	93	148	151	142	116	146	150	150	147	145	142	144	143	145	152	84	UO	137	136	150	136	133	144.6
12-Feb	149	147	151	149	150	143	146	150	147	146	142	140	144	148	176	152	155	152	158	166	167	168	227	245	158.8
13-Feb	236	242	259	257	261	267	273	256	258	270	266	258	262	250	248	234	230	59	357	135	157	275	338	117	255.3
14-Feb	129	114	137	140	143	146	145	147	144	137	130	135	355	315	118	317	287	311	287	287	272	301	327	343	161.4
15-Feb	341	9	8	2	6	19	347	334	18	27	17	9	7	357	340	291	329	11	343	358	320	347	343	304	359.3
16-Feb	335	327	324	314	329	19	311	312	332	340	340	320	295	326	341	345	6	7	336	341	339	356	359	7	343.1
17-Feb	6	8	16	11	2	9	3	10	12	13	14	17	17	12	7	5	10	6	6	13	9	6	7	14	10.0
18-Feb	15	8	8	8	9	8	9	9	15	8	12	7	17	9	4	355	346	351	332	299	295	11	UO	UO	6.2
19-Feb	139	117	136	151	148	150	149	143	144	147	140	138	139	140	140	146	168	169	164	154	147	139	144	147	145.7
20-Feb	151	149	146	149	147	149	147	146	150	160	148	137	134	357	293	275	329	326	328	344	349	332	336	330	149.3
21-Feb	321	315	327	317	313	324	344	338	314	295	298	302	337	5	27	26	42	25	25	29	11	15	7	4	0.7
22-Feb	358	348	345	344	338	336	350	338	332	332	319	317	311	310	315	316	320	310	306	313	4	125	130	131	337.5
23-Feb	133	137	138	156	149	144	139	213	3	153	243	317	291	242	250	116	147	152	62	295	UO	UO	313	UO	161.3
24-Feb	UO	UO	UO	UO	UO	UO	143	150	149	149	146	145	141	134	139	143	135	150	134	144	136	131	190	224	143.4
25-Feb	99	320	307	323	319	286	327	UO	UO	287	140	138	136	143	138	144	144	4	338	355	5	5	4	7	34.2
26-Feb	19	7	355	337	323	351	3	351	1	352	358	1	7	13	11	16	5	1	357	358	356	345	357	358	0.4
27-Feb	7	5	3	10	2	0	353	320	336	356	348	335	336	338	303	270	323	271	282	317	334	316	329	358	344.7
28-Feb	51	UO	120	156	148	149	151	150	151	152	150	141	143	144	149	164	167	155	153	152	144	129	138	147	148.2
	15.5	11.8	19.8	19.8	16.8	25.8	15.9	36.4	57.1	43.0	46.7	52.4	51.2	59.0	40.8	35.5	32.6	18.9	10.4	17.1	21.1	34.4	27.6	24.0	
	Diurnal Average																								

UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Lower Camp - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 103 deg on Feb 25 00:00

Minimum Value: 3 deg on Feb 12 11:00

Percentiles: P_1 = 5 P_{10} = 9 Q_1 = 13 Median = 18 Q_3 = 25 P_{90} = 44 P_{99} = 85

Hours in Service:	672
Hours of Data:	656
Hours of Missing Data:	16
Hours of Calibration:	0
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	22	29	24	21	11	18	24	25	18	9	6	9	10	8	7	8	7	6	7	7	6	6	8	20	29
2-Feb	23	14	10	9	14	9	9	8	10	13	12	38	12	17	12	13	24	UO	43	21	10	20	18	18	43
3-Feb	20	15	18	16	22	21	24	14	22	17	19	24	36	82	16	19	72	42	13	13	15	13	10	12	82
4-Feb	35	14	14	10	10	16	88	44	53	57	17	38	49	72	12	10	22	50	19	16	13	18	14	12	88
5-Feb	12	13	18	13	15	19	19	19	18	21	22	21	20	19	36	26	13	20	26	13	29	23	19	24	36
6-Feb	11	15	24	26	25	19	25	25	18	25	36	29	9	8	12	13	18	35	80	97	62	56	29	37	97
7-Feb	48	23	38	48	34	20	17	16	18	18	18	19	18	16	10	16	18	20	18	19	18	18	19	13	48
8-Feb	12	14	26	10	10	11	9	9	18	25	16	13	21	19	19	15	18	17	16	16	16	18	25	35	35
9-Feb	27	34	39	34	37	28	21	24	40	29	16	18	17	13	17	19	17	18	19	18	18	18	17	19	40
10-Feb	20	13	10	11	14	20	20	21	23	24	25	43	31	51	67	79	36	31	63	32	68	89	85	83	89
11-Feb	28	71	67	26	16	29	38	14	12	13	5	4	6	5	7	14	40	28	UO	46	36	12	81	24	81
12-Feb	9	8	11	17	23	28	15	24	8	6	3	4	6	12	30	12	13	11	15	17	20	21	37	16	37
13-Feb	20	20	12	11	12	12	13	27	43	52	13	13	13	15	14	19	15	74	26	73	73	79	69	74	79
14-Feb	50	65	15	22	17	20	10	27	15	11	19	41	30	66	66	57	28	23	25	21	11	27	24	57	66
15-Feb	63	20	24	17	18	20	19	18	16	21	14	15	17	19	24	17	49	20	35	46	28	57	52	29	63
16-Feb	42	30	16	33	35	29	11	22	23	37	26	22	21	22	19	20	20	19	21	17	17	19	17	15	42
17-Feb	17	17	14	17	20	16	19	20	18	14	14	14	14	15	17	17	15	18	16	16	15	17	15	17	20
18-Feb	15	16	18	18	17	16	16	15	14	17	17	18	18	19	19	20	18	21	17	10	57	30	UO	UO	57
19-Feb	80	40	28	13	9	10	10	6	6	7	6	8	9	7	6	12	20	13	14	12	16	25	29	20	80
20-Feb	10	10	6	9	8	11	10	10	14	16	14	11	15	59	17	10	37	25	16	18	19	14	14	13	59
21-Feb	16	11	12	13	16	43	37	24	15	14	19	15	26	19	15	14	18	11	13	10	15	16	17	15	43
22-Feb	18	19	19	20	17	14	19	15	15	12	14	10	10	11	12	10	11	10	15	35	79	10	7	7	79
23-Feb	8	15	13	25	25	23	18	40	70	54	33	22	41	19	20	80	16	27	69	41	UO	UO	25	UO	80
24-Feb	UO	UO	UO	UO	UO	UO	9	9	9	9	5	5	5	14	5	6	19	57	70	32	12	29	93	103	103
25-Feb	84	35	12	38	23	16	44	UO	UO	89	11	7	8	9	13	10	5	60	14	18	17	15	15	16	89
26-Feb	14	19	18	20	16	23	16	19	18	19	19	17	16	15	19	16	18	19	20	21	20	20	20	20	23
27-Feb	16	21	23	17	18	20	26	17	26	24	20	22	25	28	24	11	71	16	57	54	27	21	37	61	71
28-Feb	54	UO	18	19	9	8	13	13	11	12	11	7	5	6	12	22	23	12	11	10	16	12	10	7	54
	84	71	67	48	37	43	88	44	70	89	36	43	49	82	67	80	72	74	80	97	79	89	93	103	
	Diurnal Maximum																								

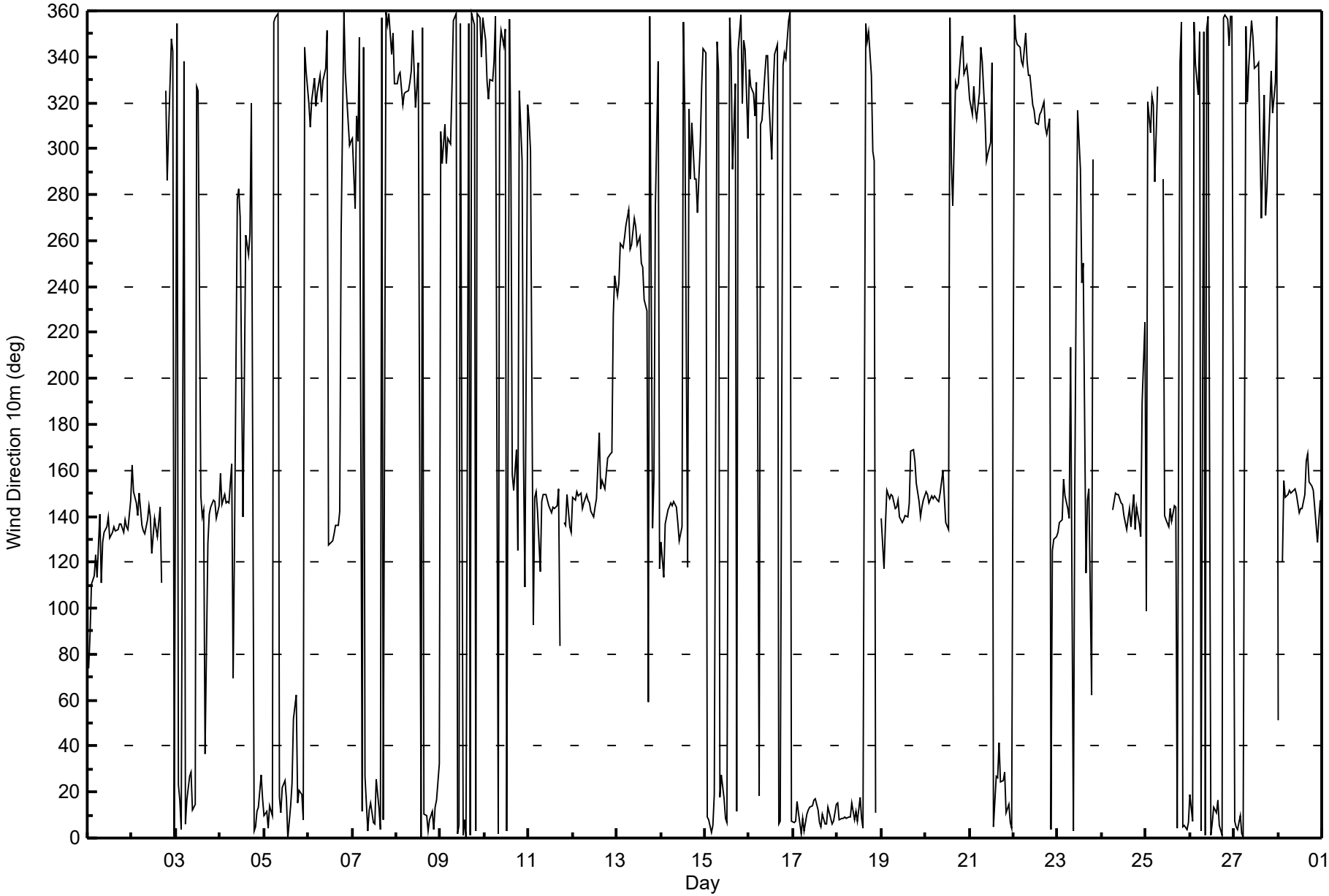
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Lower Camp - February 2026



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS13
FORT MCKAY SOUTH
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FORT McKAY SOUTH (AMS13)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-Min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2(ppb) Average	639	33	33	100	-	-	17.3	0	2.9	0
TRS(ppb) Average	591	33	81	92.86	3.1	0	2.4	0	1.2	0
THC(ppm) Average	591	32	81	92.71	-	-	3.9	-	2.9	-
NMHC(ppm) Average	591	32	81	92.71	-	-	0.695	-	0.164	-
CH4(ppm) Average	591	32	81	92.71	-	-	3.6	-	2.8	-
O3(ppb) Average	593	30	79	92.71	-	-	46	0	34.1	-
NO2(ppb) Average	597	32	75	93.6	-	-	50	0	28.6	-
NO(ppb) Average	597	32	75	93.6	-	-	100.5	-	39	-
NOX(ppb) Average	597	32	75	93.6	-	-	137.4	-	67.6	-
PM2.5(ug/m3) Average	643	2	29	95.98	-	-	24.6	0	8.1	0
ET(C) Average	672	0	0	100	-	-	10.1	-	0	-
RH(%) Average	672	0	0	100	-	-	97.6	-	86.7	-
WS(km/h) Average	671	0	1	99.85	-	-	28	-	22	-
WD(deg) Average	671	0	1	99.85	-	-	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FORT McKAY SOUTH (AMS13)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2(ppb) Average	639	0.47	1.5	-	0	0	0	0.1	0.3	0.9	17.3
TRS(ppb) Average	591	0.71	0.3	-	0.4	0.5	0.5	0.6	0.8	1.1	2.4
THC(ppm) Average	591	2.31	0.3	-	2	2.1	2.1	2.2	2.4	2.7	3.9
NMHC(ppm) Average	591	0.067	0.081	-	0	0	0	0.1	0.1	0.2	0.695
CH4(ppm) Average	591	2.24	0.3	-	2	2	2.1	2.1	2.3	2.6	3.6
O3(ppb) Average	593	16.11	11	-	1	1.8	5.6	15.9	24.9	29.8	46
NO2(ppb) Average	597	13.38	8.3	-	0.9	4.6	7.2	11.1	18.5	25.9	50
NO(ppb) Average	597	8.6	16.5	-	0	0	0.1	1.3	8.3	24.9	100.5
NOX(ppb) Average	597	21.98	22.3	-	0.9	5.4	8.6	13.7	27.3	50	137.4
PM2.5(ug/m3) Average	643	4.69	2.4	-	1.2	2.6	3.1	4.1	5.6	7.4	24.6
Temperature 2 m (C) Average	672	-16.92	10.3	-	-42.4	-30.6	-24.9	-15.9	-10.1	-4.4	10.1
Relative Humidity (%) Average	672	76.36	10.7	-	35.3	62.5	70	77.6	84.6	88.5	97.6
Wind Speed 10 m (km/h) Average	671	8	6	-	0	2	3	7	11	16	28
Wind Direction 10 m (deg) Average	671	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FORT McKAY SOUTH (AMS13)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
TRS	17 Feb 2026 03:00	18 Feb 2026 02:00	24	Unstable Operation - excessive baseline drift
TRS	18 Feb 2026 04:00	19 Feb 2026 03:00	24	Unstable Operation - excessive baseline drift
THC	17 Feb 2026 02:00	18 Feb 2026 01:00	24	Unstable Operation - excessive baseline drift
THC	18 Feb 2026 03:00	19 Feb 2026 02:00	24	Unstable Operation - excessive baseline drift
THC	27 Feb 2026 13:00	27 Feb 2026 13:00	1	Unstable Operation - excessive baseline drift
O3	17 Feb 2026 04:00	19 Feb 2026 04:00	49	Unstable Operation - excessive baseline drift
NO2/NO/NOx	17 Feb 2026 06:00	19 Feb 2026 00:00	43	Unstable Operation - excessive baseline drift
PM2.5	25 Feb 2026 14:00	26 Feb 2026 16:00	27	Unstable Operation - calibration failure
Wind Speed, Wind Direction	24 Feb 2026 00:00	24 Feb 2026 00:00	1	Unstable Operation - flatline in analyzer output signal

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Fort McKay South - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 17.3 ppb on Feb 20 15:00 Maximum Daily Average: 2.9 ppb on Feb 25

Minimum Value: 0.0 ppb on Feb 9 01:00 Minimum Daily Average: 0.0 ppb on Feb 18
Maximum Diurnal Average: 1.8 ppb at hour 15 Minimum Diurnal Average: 0.1 ppb at hour 1
Monthly Average: 0.47 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.3 P_{90} = 0.9 P_{99} = 6.2

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	Z	0.1	0.1	0.1	1.1	1.2	1.1	0.5	1.5	3.1	2.2	3.5	2.2	2.7	2.2	0.4	0.7	4.6	6.5	13.4	3.5	0.5	2.2	13.4
2-Feb	0.3	0.3	0.3	Z	0.3	0.4	0.4	0.3	0.4	0.4	0.5	1.0	1.3	1.1	1.4	0.8	0.8	0.5	0.4	0.4	0.5	0.5	0.4	0.3	0.6	1.4
3-Feb	0.3	0.2	0.2	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	2.1	2.5	1.4	0.9	0.6	0.4	0.4	0.3	0.3	0.3	0.5	2.5
4-Feb	0.8	0.5	1.0	2.3	1.8	Z	0.3	0.2	0.1	0.2	0.4	0.5	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.4	2.3
5-Feb	Z	0.0	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	0.1
6-Feb	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.2	0.4	2.0	2.0	1.8	0.6	0.2	0.1	0.2	0.2	0.1	0.1	0.4	2.0
7-Feb	0.1	0.1	Z	0.1	0.7	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
8-Feb	0.0	0.0	0.0	Z	0.1	0.1	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
9-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
10-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.1	0.2	0.2	0.4	0.3	0.7	1.5	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.4	0.2	1.5
11-Feb	Z	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.5	0.8	0.7	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.8
12-Feb	0.2	Z	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.2	0.5	0.4	0.2	0.2	0.1	0.1	0.2	0.5
13-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
14-Feb	0.0	0.0	0.1	Z	0.6	0.2	0.1	0.2	0.2	0.2	0.3	1.1	2.7	1.2	0.3	0.3	0.6	1.1	0.8	0.5	0.4	0.1	0.0	0.0	0.5	2.7
15-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
16-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.1	0.1	0.1	0.3	0.2	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
17-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-Feb	0.1	0.1	Z	0.4	0.3	0.3	0.2	0.3	0.5	1.3	2.1	C	C	C	C	C	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.1
20-Feb	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.1	0.2	0.2	0.5	2.2	10.4	17.3	5.0	2.2	0.6	0.3	1.0	1.2	1.3	1.2	0.8	1.9	17.3
21-Feb	0.3	0.3	0.6	0.5	Z	0.5	0.4	0.3	0.4	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6
22-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2
23-Feb	Z	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.6	0.3	0.3	0.3	1.1	0.9	0.5	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	1.1
24-Feb	0.1	Z	0.2	0.2	0.3	0.4	0.4	0.5	0.4	0.4	0.3	0.4	0.4	1.8	3.1	4.8	2.6	1.0	0.2	0.1	0.1	0.1	0.1	0.2	0.8	4.8
25-Feb	0.2	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.7	2.3	5.0	2.4	16.3	15.0	10.8	5.6	3.6	2.4	0.8	0.6	0.5	0.6	2.9	16.3
26-Feb	0.5	0.5	0.4	Z	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5
27-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5	0.2	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5
28-Feb	0.0	0.3	0.5	0.4	0.3	Z	0.6	0.6	0.6	1.6	1.5	1.7	2.2	0.8	0.6	0.5	0.5	0.4	0.1	0.1	0.1	0.0	0.1	0.1	0.6	2.2
	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.8	1.4	0.9	0.4	0.3	0.4	0.4	0.6	0.3	0.1	Diurnal Average	
	0.8	0.5	1.0	2.3	1.8	0.5	1.1	1.2	1.1	1.6	2.1	3.1	5.0	10.4	17.3	15.0	10.8	5.6	3.6	4.6	6.5	13.4	3.5	0.8	Diurnal Maximum	

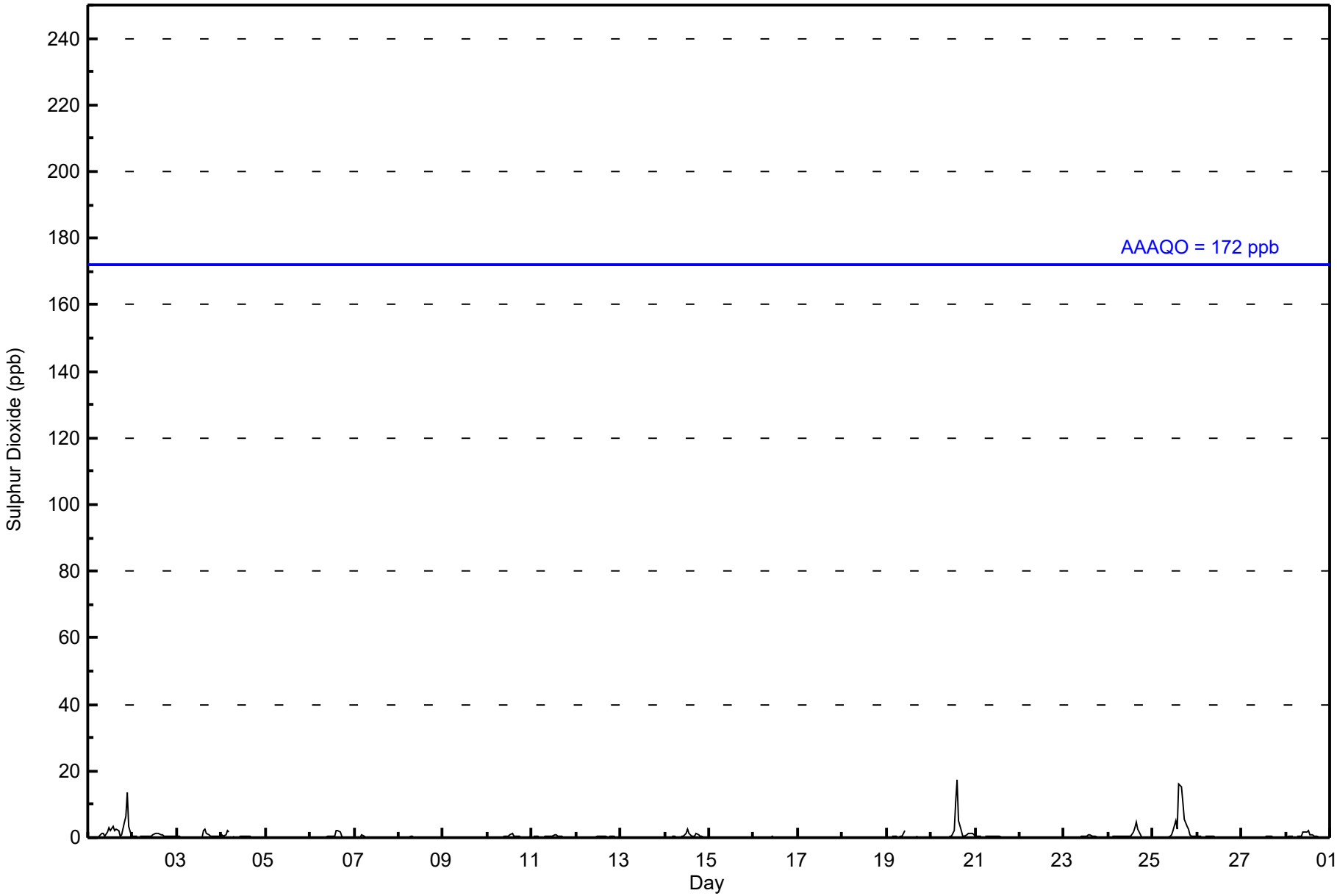
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Fort McKay South - February 2026



Sulphur Dioxide (SO_2) - ppb
Fort McKay South - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	634	99.22	99.22
11 - 20	5	0.78	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Fort McKay South - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	112	181	19	7	1	3	10	61	65	54	35	21	21	7	12	24	633
11 - 20	1	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0	5
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	113	182	19	7	1	3	10	63	66	54	35	21	21	7	12	24	638

Total Number of Valid Hours: 638

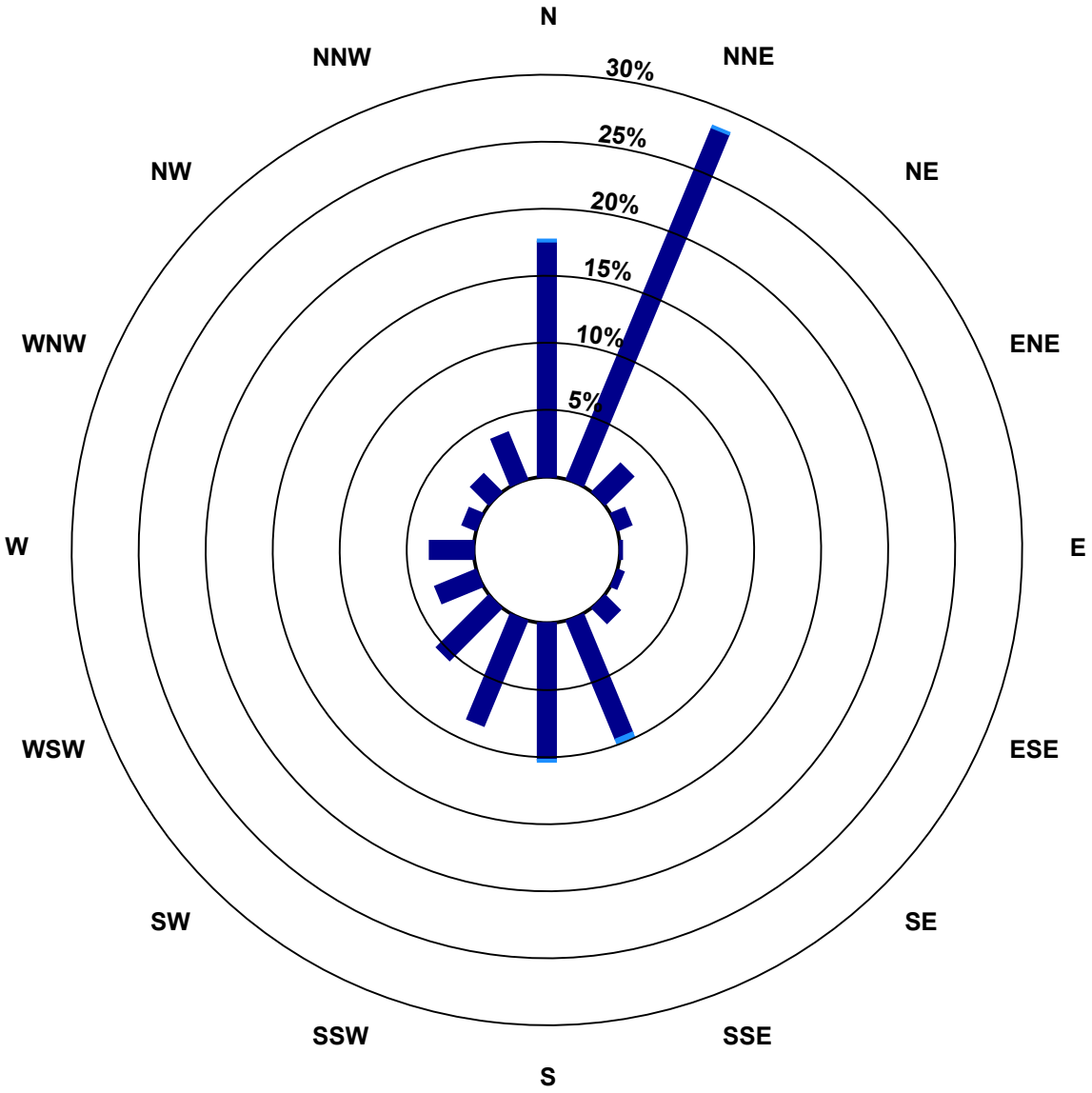
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Fort McKay South



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

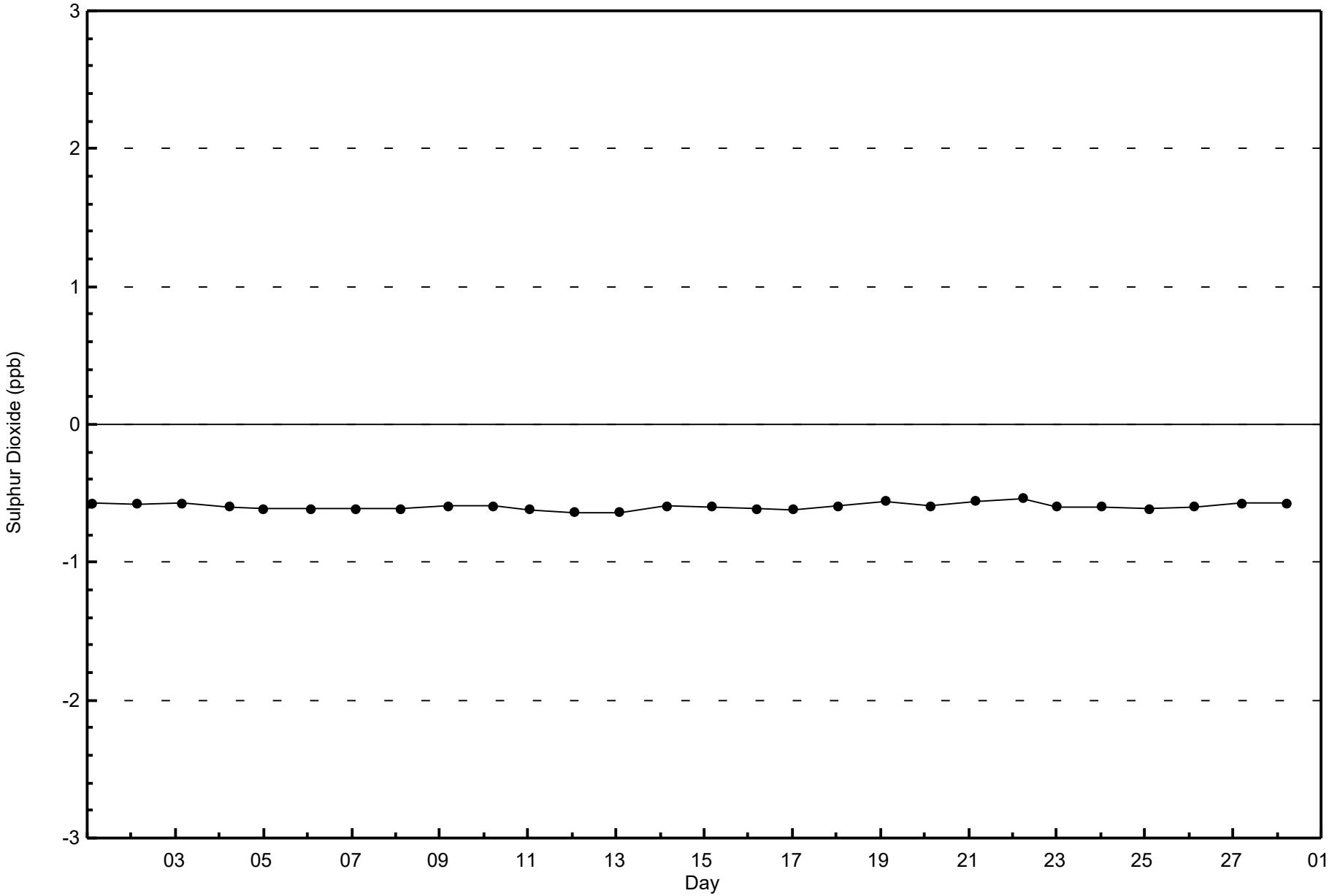
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Fort McKay South - February 2026

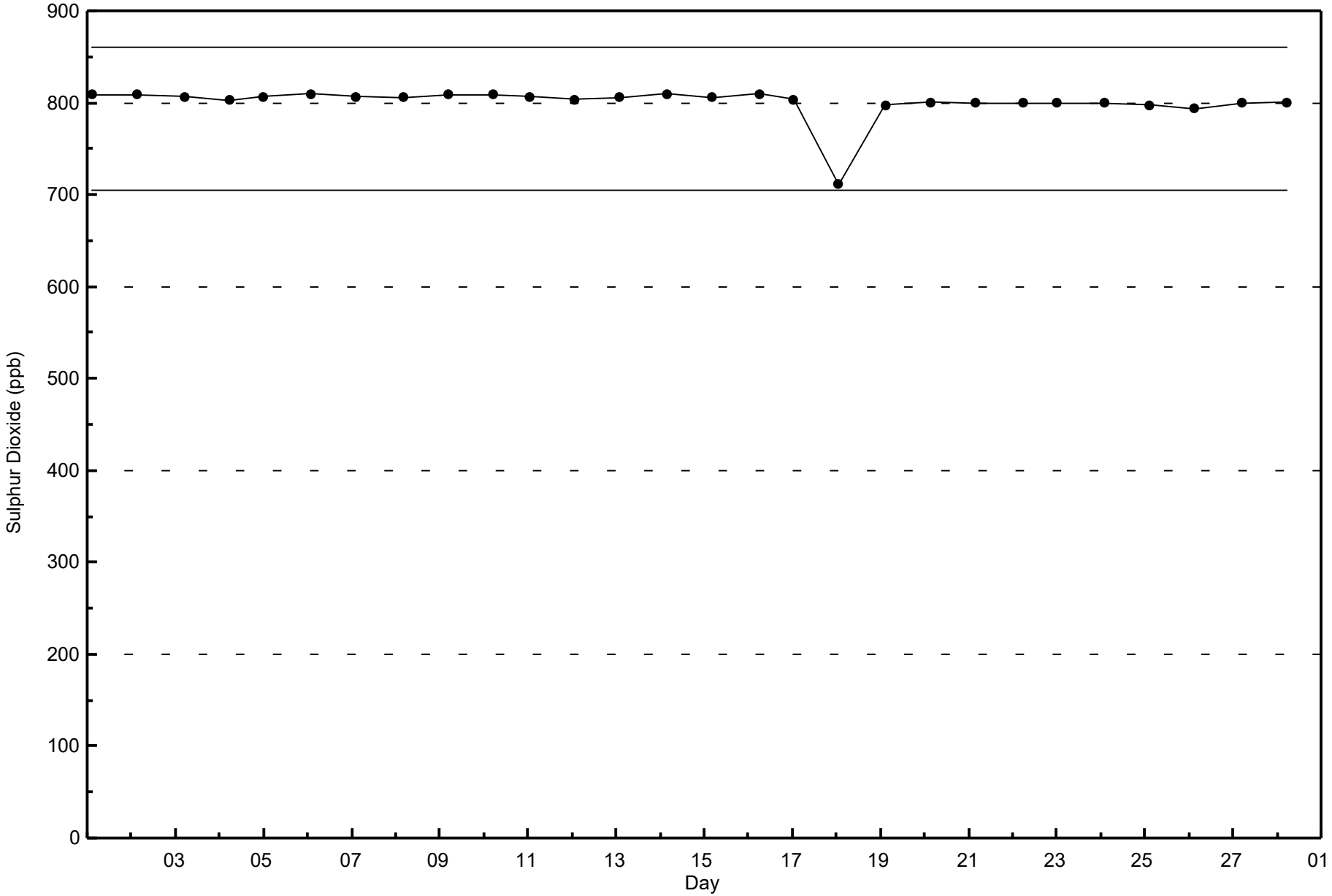


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Fort McKay South - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Fort McKay South - February 2026

Number of Exceedences (AAAQG): 30-Min: 0

Maximum Value: 3.1 ppb on Feb 25 10:30 Maximum Daily Average: 1.2 ppb on Feb 14

Minimum Value: 0.4 ppb on Feb 26 20:30 Minimum Daily Average: 0.5 ppb on Feb 27

Maximum Diurnal Average: 0.9 ppb at hour 11 Minimum Diurnal Average: 0.6 ppb at hour 3

Monthly Average: 0.71 ppb Percentiles: $P_1 = 0.4$ $P_{10} = 0.5$ $Q_1 = 0.5$ Median = 0.6 $Q_3 = 0.8$ $P_{90} = 1.1$ $P_{99} = 2.0$

Periods in Service:	1344
Periods of Valid Data:	1182
Periods of Invalid Data:	162
Periods of Calibration:	66
Percent Operational Time:	92.9

Period Ending At (MST)

Day	00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.4	0.4	0.4	Z	0.5	0.4	0.5	0.6	0.6	0.5	0.5	0.7	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.5	0.5	0.8
	0.4	0.4	0.4	SP	0.5	0.5	0.6	0.6	0.5	0.5	0.7	0.7	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.8	0.6	0.8	0.5	0.5		
2-Feb	0.4	0.4	0.4	0.4	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	1.2	0.7	0.6	1.2
	0.4	0.4	0.4	0.4	SP	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.6	1.0	0.9	0.7	0.6		
3-Feb	0.6	0.7	0.8	0.8	0.7	Z	0.6	0.5	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.5	0.6	0.8
	0.6	0.6	0.7	0.7	0.7	SP	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.5		
4-Feb	Z	0.4	0.4	0.5	1.0	1.0	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.5	1.0
	SP	0.4	0.5	0.5	0.9	0.8	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5		
5-Feb	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	C	C	C	C	C	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.6
	0.5	SP	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.6	C	C	C	C	C	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6		
6-Feb	0.6	0.8	Z	1.0	0.7	0.7	0.7	0.9	1.1	1.1	1.3	1.1	0.9	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.6	0.8	0.7	0.6	0.8	1.3
	0.7	1.1	SP	0.9	0.7	0.7	0.8	1.1	1.1	1.2	1.2	1.0	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.7		
7-Feb	0.7	0.7	0.7	Z	0.8	0.6	0.7	0.6	0.5	0.6	0.9	0.8	0.8	0.8	0.6	0.6	0.8	0.6	0.6	0.8	0.6	0.5	0.5	0.5	0.6	0.9
	0.7	0.7	0.6	SP	0.9	0.5	0.5	0.7	0.5	0.7	0.6	0.8	0.8	0.7	0.5	0.7	0.7	0.6	0.6	0.7	0.5	0.5	0.5	0.6		
8-Feb	0.6	0.6	0.5	0.6	Z	0.6	0.8	0.9	0.8	0.7	0.7	0.5	0.6	0.5	0.6	0.5	0.5	0.6	0.6	0.6	0.4	0.5	0.4	0.5	0.6	0.9
	0.6	0.6	0.6	0.6	SP	0.7	0.9	0.8	0.8	0.8	0.8	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.4	0.5	0.4	0.4	0.4		
9-Feb	0.4	0.4	0.4	0.4	0.5	Z	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.5	0.5	0.6	0.7	0.5	0.5	0.8
	0.4	0.4	0.4	0.5	0.5	SP	0.5	0.7	0.6	0.7	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.5	0.5	0.6	0.8	0.6	0.5		
10-Feb	Z	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.8	0.9	0.9	0.8	1.2	1.5	1.4	0.8	1.0	0.9	0.7	0.6	0.6	0.6	0.6	0.8	0.8	1.7
	SP	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.8	0.8	0.9	0.9	1.5	1.7	1.0	0.9	0.9	0.7	0.7	0.7	0.6	0.6	0.7	1.0		
11-Feb	1.0	Z	0.9	0.9	1.0	1.4	1.5	2.2	1.9	2.0	1.6	1.3	1.0	1.1	1.3	1.1	0.7	0.7	0.6	0.5	1.0	1.3	1.1	0.9	1.2	2.2
	0.9	SP	0.9	0.9	1.2	1.4	1.9	2.1	2.1	1.8	1.4	1.1	1.2	1.2	1.2	0.9	0.8	0.6	0.6	0.8	1.1	1.1	1.0	0.8		
12-Feb	0.8	0.7	Z	0.7	0.6	0.5	0.4	0.5	0.5	0.8	0.9	0.6	0.8	1.5	0.6	0.7	0.6	0.8	0.7	0.9	2.6	0.5	0.5	0.4	0.8	2.6
	0.8	0.7	SP	0.5	0.5	0.4	0.5	0.5	0.5	0.9	1.0	1.0	1.2	0.6	0.7	0.8	0.8	0.9	0.8	2.0	0.6	0.5	0.5	0.5		
13-Feb	0.5	0.5	0.5	Z	0.5	0.4	0.5	0.4	0.5	0.8	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.8	0.9	0.6	0.9
	0.5	0.5	0.5	SP	0.4	0.4	0.5	0.5	0.9	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.9	0.8		
14-Feb	0.8	0.7	0.7	1.1	Z	1.5	1.4	1.5	1.4	1.3	1.3	1.8	1.7	1.4	0.8	0.7	0.7	2.6	1.6	1.2	1.1	0.9	0.5	0.6	1.2	2.6
	0.7	0.7	0.8	1.6	SP	1.3	1.5	1.4	1.4	1.4	1.4	1.7	1.7	1.0	0.7	0.7	1.3	1.8	1.5	1.2	1.1	0.6	0.6	0.6		
15-Feb	0.7	1.3	0.9	0.7	0.8	Z	0.6	0.6	0.7	1.0	0.5	0.6	0.7	0.9	0.8	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.7	1.3
	1.0	1.2	0.7	0.8	0.8	SP	0.6	0.6	0.8	0.7	0.6	0.6	0.7	0.8	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6		

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Fort McKay South - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	Z	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.7	1.1	1.1	0.8	0.8	0.8	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	1.5
	SP	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.7	0.7	1.5	0.9	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
17-Feb	0.5	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	0.5
	0.5	SP	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO		
18-Feb	UO	UO	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
	UO	UO	SP	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO		
19-Feb	UO	UO	UO	Z	1.9	1.8	1.1	1.0	0.8	0.9	0.8	0.8	0.6	0.7	0.6	0.5	0.5	0.5	0.6	0.8	1.0	0.7	0.9	1.1	0.9	1.9
	UO	UO	UO	SP	1.8	1.4	1.1	1.0	0.8	0.9	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.9	0.9	0.7	1.0	0.8		
20-Feb	0.7	0.7	0.8	0.8	Z	1.0	0.8	0.7	0.8	0.8	1.5	1.1	1.1	1.6	1.8	1.0	1.2	1.0	0.6	0.5	0.5	0.5	0.5	0.5	0.9	1.8
	0.6	0.6	0.8	0.9	SP	1.0	0.8	0.8	0.8	1.0	1.3	1.1	1.2	1.7	1.2	1.0	1.1	0.8	0.5	0.5	0.5	0.5	0.5	0.5		
21-Feb	0.5	0.5	0.5	0.6	0.5	Z	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.6
	0.5	0.5	0.6	0.5	0.5	SP	0.5	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4		
22-Feb	Z	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.8
	SP	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.6	0.6	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.6	0.7	0.7	0.7	0.7		
23-Feb	0.7	Z	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.8	1.0	0.8	0.8	1.0	0.8	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	1.1
	0.7	SP	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	1.1	1.0	0.8	0.8	0.9	0.7	0.6	0.7	0.6	0.7	0.7	0.7	0.8	0.7		
24-Feb	0.7	0.8	Z	1.1	1.2	1.3	1.8	2.0	2.1	1.6	1.4	1.2	1.2	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	1.0	2.1
	0.7	0.8	SP	1.2	1.3	1.6	1.8	2.1	2.0	1.7	1.1	1.4	1.0	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.7	0.7	0.7		
25-Feb	0.7	0.6	0.6	Z	0.5	0.5	0.5	0.5	0.5	0.7	3.1	0.9	0.9	0.7	1.2	1.2	1.1	1.1	1.3	1.0	0.6	0.5	0.6	0.6	0.8	3.1
	0.6	0.6	0.6	SP	0.5	0.5	0.5	0.5	0.5	1.0	1.7	0.8	1.1	0.8	1.5	1.1	1.2	1.0	1.1	0.8	0.6	0.6	0.6	0.5		
26-Feb	0.5	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.6
	0.5	0.5	0.5	0.5	SP	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4		
27-Feb	0.4	0.4	0.4	0.4	0.4	Z	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5
	0.4	0.5	0.4	0.4	0.4	SP	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4		
28-Feb	Z	0.8	1.0	1.0	0.9	1.1	1.3	2.1	1.4	1.8	1.0	0.8	1.1	0.6	0.6	0.5	0.5	0.6	0.7	1.1	1.0	0.9	0.8	1.0	1.0	2.1
	SP	0.9	1.0	0.9	1.0	1.2	1.8	1.7	1.3	1.8	0.9	0.9	0.9	0.6	0.6	0.5	0.6	0.6	1.0	1.4	0.7	0.8	1.0	1.0		
	0.6	0.6	0.6	0.7	0.7	0.8	0.7	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.7	0.6	0.7	0.7	0.6	0.6	0.6	Diurnal Average	
	1.0	1.3	1.0	1.6	1.9	1.8	1.9	2.2	2.1	2.0	3.1	1.8	1.7	1.7	1.8	1.2	1.3	2.6	1.6	2.0	2.6	1.3	1.1	1.1	Diurnal Maximum	

Z - zerospan C - Calibration UO - Unstable Operation SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Fort McKay South - February 2026

Maximum Value: 2.4 ppb on Feb 25 11:00

Maximum Daily Average: 1.2 ppb on Feb 14

Minimum Value: 0.4 ppb on Feb 26 20:00

Minimum Daily Average: 0.5 ppb on Feb 27

Maximum Diurnal Average: 0.9 ppb at hour 11

Minimum Diurnal Average: 0.6 ppb at hour 3

Monthly Average: 0.71 ppb

Percentiles: P_1 = 0.4 P_{10} = 0.5 Q_1 = 0.5 Median = 0.6 Q_3 = 0.8 P_{90} = 1.1 P_{99} = 1.9

Hours in Service:	672
Hours of Data:	591
Hours of Missing Data:	81
Hours of Calibration:	33
Percent Operational Time:	92.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.4	0.4	0.4	Z	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.6	0.8	0.6	0.5	0.5	0.8
2-Feb	0.4	0.4	0.4	0.4	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.9	1.1	0.7	0.6	0.6	1.1
3-Feb	0.6	0.7	0.8	0.8	0.7	Z	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.5	0.6	0.8
4-Feb	Z	0.4	0.5	0.5	1.0	0.9	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.5	1.0
5-Feb	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	C	C	C	C	C	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.6
6-Feb	0.7	1.0	Z	0.9	0.7	0.7	0.8	1.0	1.1	1.2	1.2	1.0	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.8	0.7	0.7	0.8	1.2
7-Feb	0.7	0.7	0.6	Z	0.9	0.6	0.6	0.7	0.5	0.6	0.7	0.8	0.8	0.8	0.6	0.7	0.7	0.6	0.6	0.7	0.5	0.5	0.5	0.5	0.6	0.9
8-Feb	0.6	0.6	0.6	0.6	Z	0.7	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.6	0.8
9-Feb	0.4	0.4	0.4	0.5	0.5	Z	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.5	0.6	0.5	0.6	0.7	0.6	0.5	0.5	0.7
10-Feb	Z	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.8	0.8	0.9	0.9	1.4	1.6	1.2	0.9	0.9	0.8	0.7	0.6	0.6	0.6	0.6	0.9	0.8	1.6
11-Feb	1.0	Z	0.9	0.9	1.1	1.4	1.7	2.1	2.0	1.9	1.5	1.2	1.1	1.1	1.3	1.0	0.8	0.7	0.6	0.7	1.1	1.2	1.0	0.9	1.2	2.1
12-Feb	0.8	0.7	Z	0.6	0.6	0.5	0.5	0.5	0.5	0.8	0.9	0.8	1.0	1.0	0.6	0.7	0.7	0.9	0.7	1.4	1.6	0.5	0.5	0.5	0.8	1.6
13-Feb	0.5	0.5	0.5	Z	0.5	0.4	0.5	0.5	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.9	0.8	0.6	0.9
14-Feb	0.7	0.7	0.8	1.4	Z	1.4	1.4	1.5	1.4	1.3	1.4	1.8	1.7	1.2	0.8	0.7	1.0	2.2	1.5	1.2	1.1	0.7	0.6	0.6	1.2	2.2
15-Feb	0.8	1.2	0.8	0.7	0.8	Z	0.6	0.6	0.7	0.8	0.6	0.6	0.7	0.8	0.7	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.7	1.2
16-Feb	Z	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.7	0.7	1.3	1.0	0.8	0.8	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	1.3
17-Feb	0.5	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	0.5
18-Feb	UO	UO	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
19-Feb	UO	UO	UO	Z	1.8	1.6	1.1	1.0	0.8	0.9	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.8	1.0	0.7	0.9	0.9	0.9	1.8
20-Feb	0.6	0.6	0.8	0.8	Z	1.0	0.8	0.8	0.8	0.9	1.4	1.1	1.2	1.7	1.5	1.0	1.2	0.9	0.6	0.5	0.5	0.5	0.5	0.5	0.9	1.7
21-Feb	0.5	0.5	0.6	0.5	0.5	Z	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.6
22-Feb	Z	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.7
23-Feb	0.7	Z	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	1.0	1.0	0.8	0.8	0.9	0.8	0.6	0.7	0.7	0.6	0.7	0.7	0.8	0.7	0.7	1.0
24-Feb	0.7	0.8	Z	1.1	1.2	1.5	1.8	2.0	2.0	1.7	1.3	1.3	1.1	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.6	0.7	0.7	0.7	1.0	2.0
25-Feb	0.6	0.6	0.6	Z	0.5	0.5	0.5	0.5	0.5	0.9	2.4	0.8	1.0	0.7	1.3	1.1	1.1	1.1	1.2	0.9	0.6	0.6	0.6	0.6	0.8	2.4
26-Feb	0.5	0.5	0.5	0.5	Z	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.6
27-Feb	0.4	0.4	0.4	0.4	0.4	Z	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5
28-Feb	Z	0.8	1.0	1.0	0.9	1.1	1.6	1.9	1.3	1.8	0.9	0.8	1.0	0.6	0.6	0.5	0.6	0.6	0.8	1.2	0.9	0.8	0.9	1.0	1.0	1.9
	0.6	0.6	0.6	0.7	0.7	0.8	0.7	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.7	0.6	0.7	0.7	0.6	0.6	0.6	Diurnal Average	
	1.0	1.2	1.0	1.4	1.8	1.6	1.8	2.1	2.0	1.9	2.4	1.8	1.7	1.7	1.5	1.1	1.2	2.2	1.5	1.4	1.6	1.2	1.0	1.0	Diurnal Maximum	

Z - zerospan C - Calibration UO - Unstable Operation

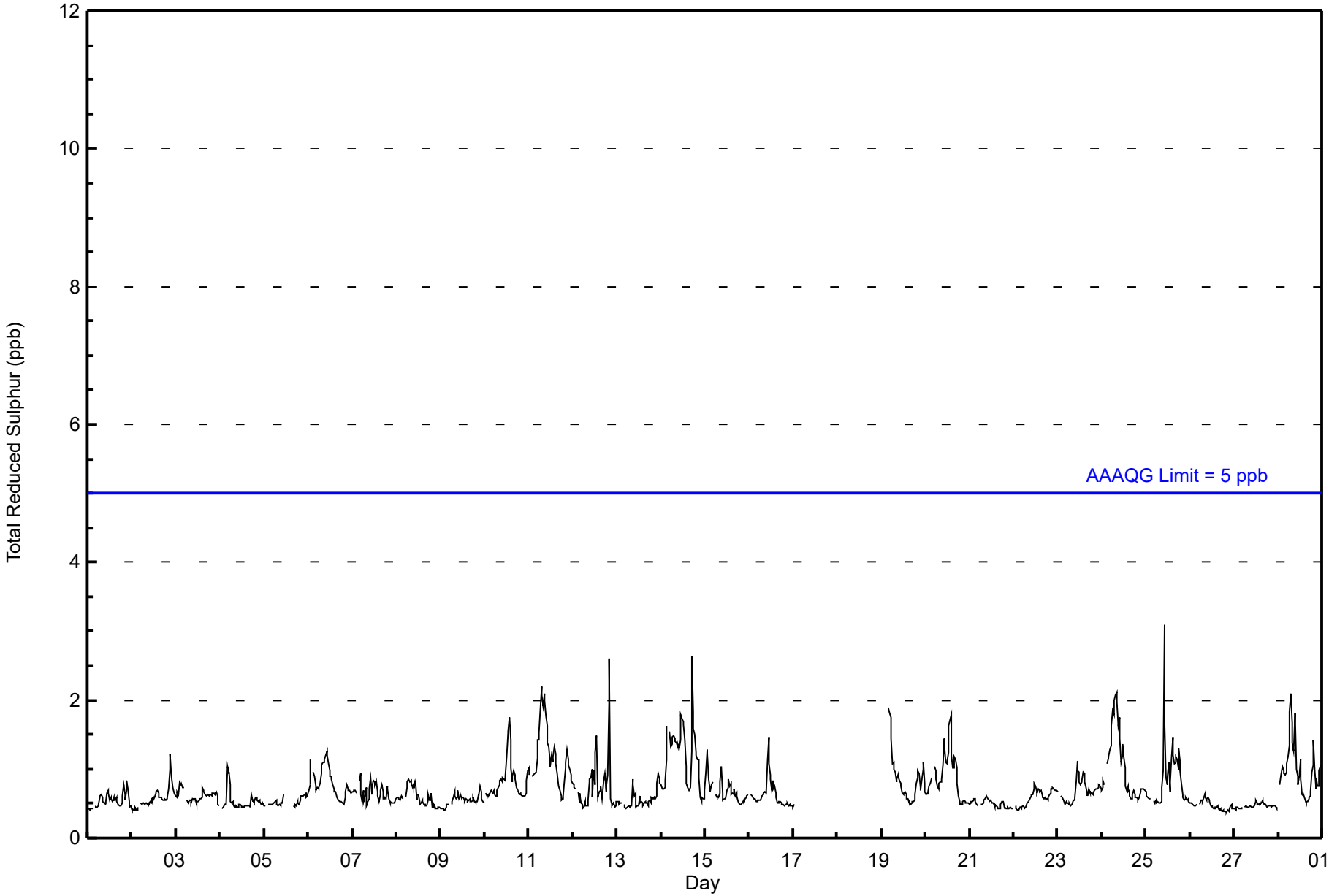
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Fort McKay South - February 2026



Total Reduced Sulphur (TRS) - ppb
Fort McKay South - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	591	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 591

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Fort McKay South - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	106	149	17	7	1	4	10	67	63	53	34	20	22	5	10	22	590
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	106	149	17	7	1	4	10	67	63	53	34	20	22	5	10	22	590

Total Number of Valid Hours: 590

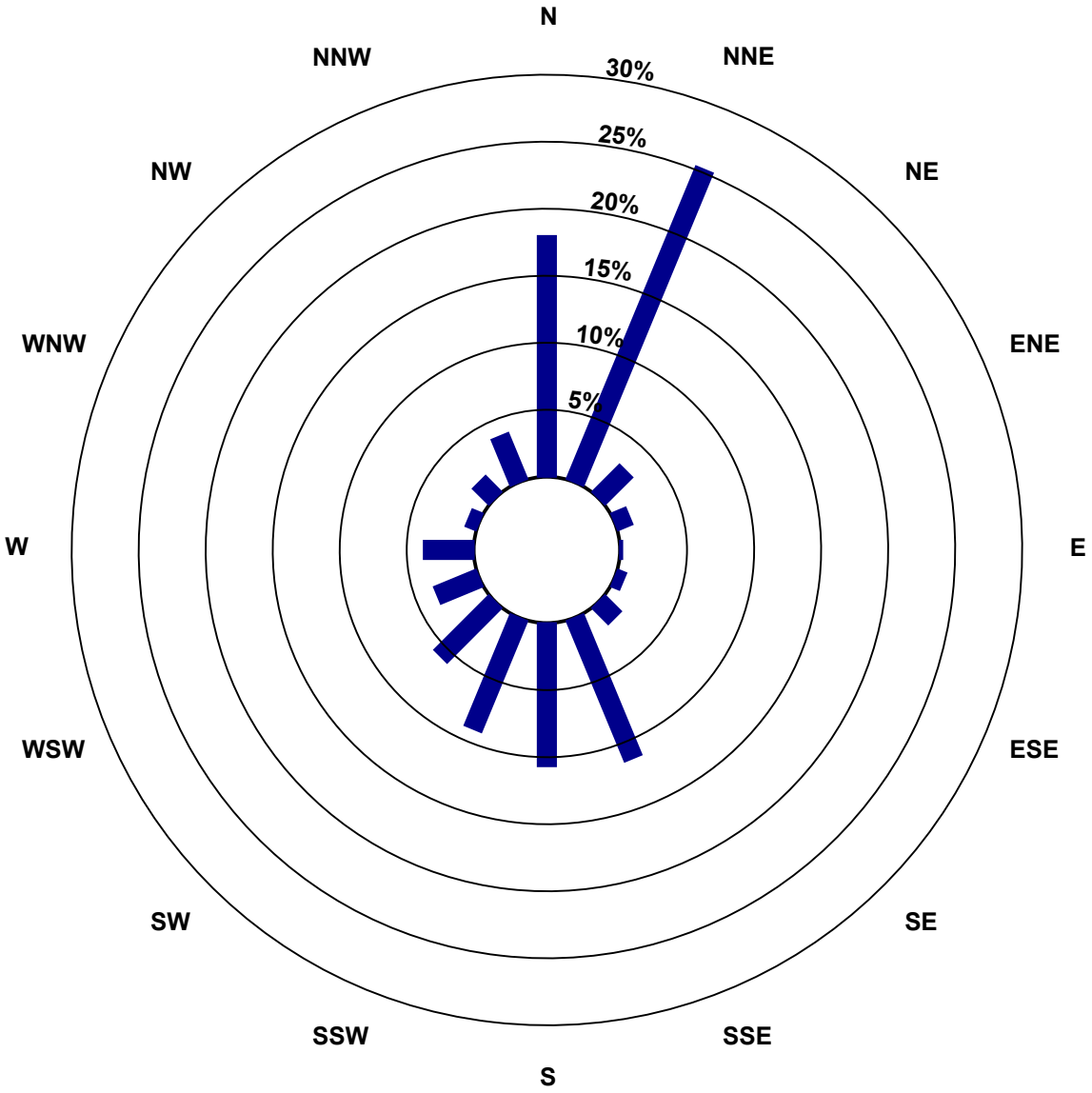
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Fort McKay South



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

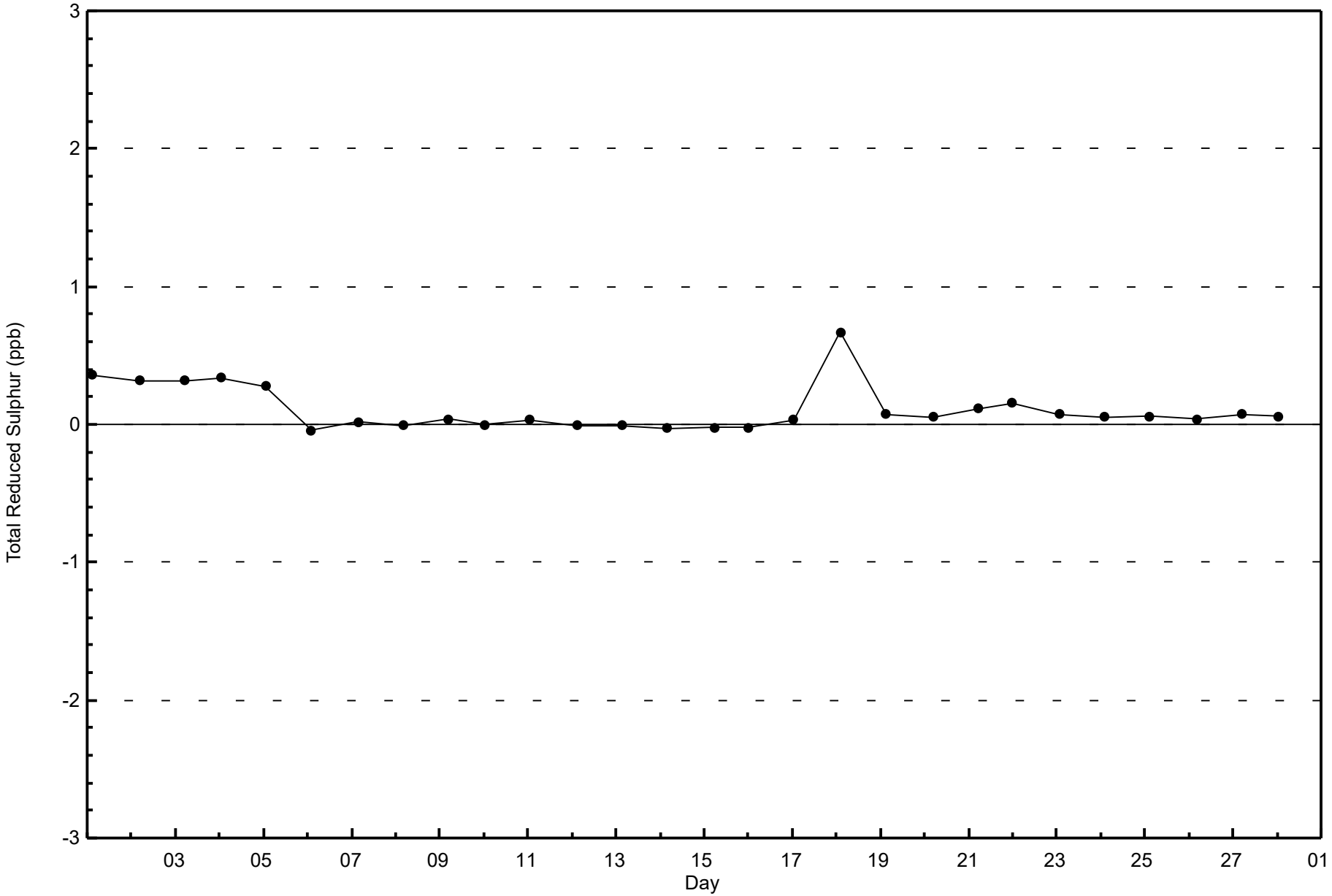
Total Number of Valid Hours: 590

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Fort McKay South - February 2026

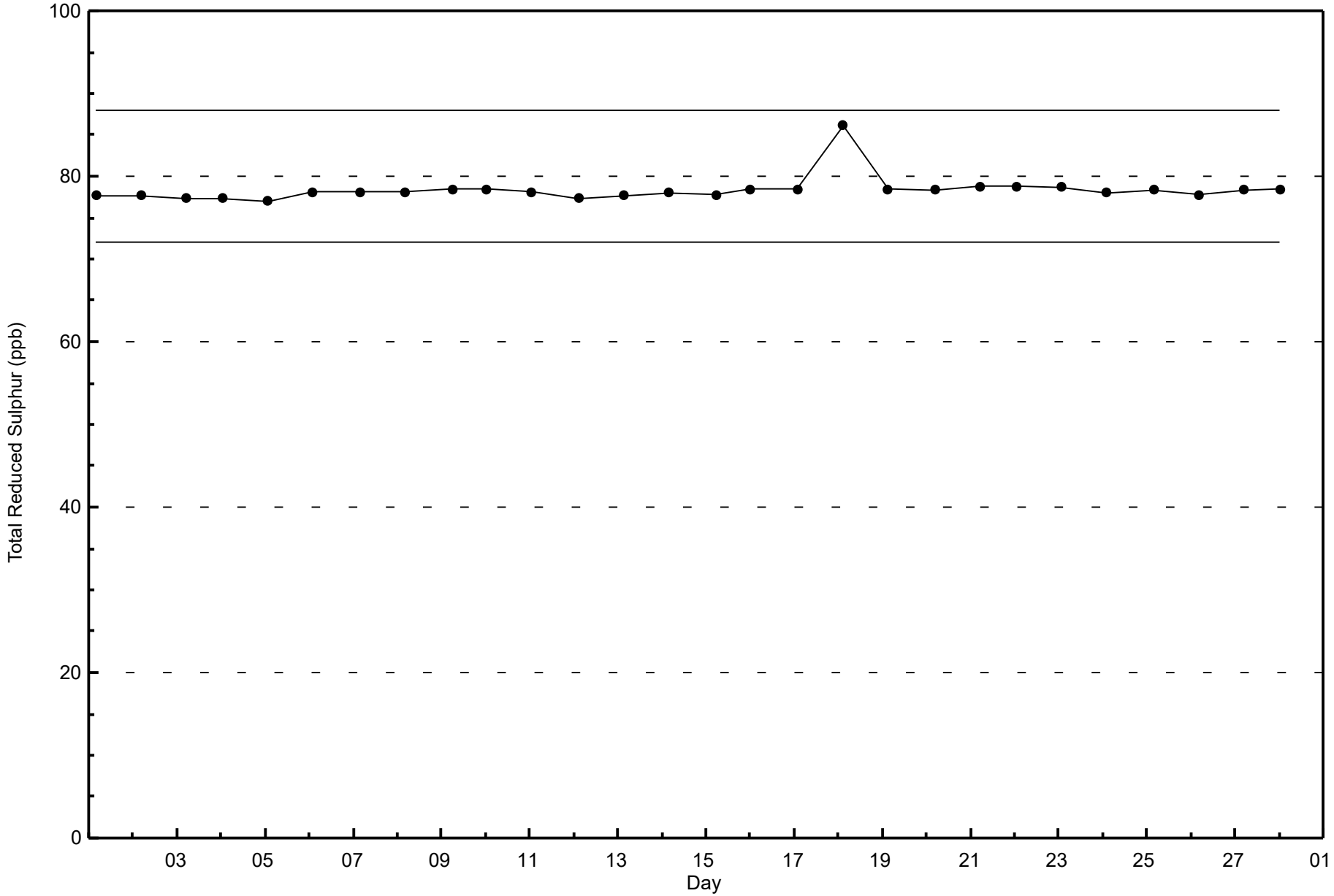


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Fort McKay South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Fort McKay South - February 2026

Maximum Value: 3.9 ppm on Feb 14 05:00

Maximum Daily Average: 2.9 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 4 17:00

Minimum Daily Average: 2.0 ppm on Feb 1

Maximum Diurnal Average: 2.5 ppm at hour 5

Minimum Diurnal Average: 2.2 ppm at hour 15

Monthly Average: 2.31 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.1 Q_1 = 2.1 Median = 2.2 Q_3 = 2.4 P_{90} = 2.7 P_{99} = 3.6

Hours in Service:	672
Hours of Data:	591
Hours of Missing Data:	81
Hours of Calibration:	32
Percent Operational Time:	92.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.1	2.1	2.0	2.0	2.1
2-Feb	2.0	2.0	2.0	Z	2.1	2.1	2.1	2.2	2.2	2.1	2.0	2.2	2.2	2.3	2.4	2.3	2.3	2.2	2.2	2.3	2.5	2.8	2.5	2.5	2.2	2.8
3-Feb	2.3	2.3	2.3	2.2	Z	2.3	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.1	2.2	2.3
4-Feb	2.0	2.1	2.0	2.0	2.7	Z	2.2	2.2	2.2	2.3	2.3	2.2	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.7
5-Feb	Z	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.1	2.1	2.0	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2
6-Feb	2.1	Z	2.3	2.3	2.2	2.3	2.3	2.5	2.6	2.8	2.9	2.8	2.7	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.4	2.4	2.4	2.4	2.9
7-Feb	2.4	2.4	Z	2.4	2.5	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.5
8-Feb	2.2	2.3	2.3	Z	2.4	2.7	3.1	3.2	2.8	2.6	2.4	2.2	2.3	2.2	2.2	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.4	3.2
9-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.2	2.3	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.3
10-Feb	2.2	2.2	2.3	2.3	2.3	Z	2.3	2.4	2.5	2.6	2.3	2.4	2.7	2.6	2.6	2.5	2.6	2.6	2.4	2.3	2.3	2.3	2.4	3.1	2.4	3.1
11-Feb	Z	3.1	2.9	2.9	3.0	3.1	3.0	3.3	3.0	2.7	2.5	2.5	2.4	2.4	2.7	2.6	2.4	2.5	2.3	2.2	2.4	2.5	2.8	2.8	2.7	3.3
12-Feb	2.8	Z	2.7	2.4	2.4	2.1	2.1	2.0	2.1	2.3	2.6	2.4	2.2	2.2	2.3	2.5	2.4	2.4	2.5	3.0	2.2	2.1	2.1	2.1	2.3	3.0
13-Feb	2.1	2.1	Z	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.3	2.0	2.3
14-Feb	2.5	2.5	2.5	Z	3.9	3.3	3.1	3.1	3.1	3.0	3.0	3.7	3.2	2.9	2.4	2.3	2.8	3.6	3.3	3.1	3.0	2.5	2.3	2.4	2.9	3.9
15-Feb	2.4	2.4	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.4
16-Feb	2.2	2.2	2.2	2.2	2.3	Z	2.2	2.2	2.3	2.3	2.9	3.2	2.9	2.7	2.4	2.2	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.3	3.2
17-Feb	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
18-Feb	UO	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
19-Feb	UO	UO	Z	2.7	2.7	2.6	2.4	2.3	2.2	2.4	2.3	C	C	C	C	2.1	2.1	2.1	2.2	2.3	2.2	2.1	2.2	2.2	--	2.7
20-Feb	2.2	2.2	2.3	Z	2.4	2.4	2.3	2.3	2.3	2.4	2.5	2.4	2.4	2.3	2.2	2.5	2.7	2.6	2.2	2.1	2.1	2.1	2.1	2.1	2.3	2.7
21-Feb	2.1	2.1	2.1	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.2	2.1	2.2	2.3
22-Feb	2.2	2.2	2.1	2.2	2.2	Z	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.2	2.3	2.4	2.4	2.4	2.4	2.3	2.4
23-Feb	Z	2.4	2.4	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.5	2.5	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.5	2.5	2.8	2.9	2.3	2.9
24-Feb	3.0	Z	3.1	3.1	3.4	3.6	3.8	3.7	3.6	3.0	2.8	2.7	2.5	2.3	2.2	2.2	2.1	2.1	2.1	2.2	2.3	2.6	2.7	2.6	2.8	3.8
25-Feb	2.3	2.3	Z	2.3	2.4	2.3	2.4	2.4	2.4	2.7	3.4	2.5	2.5	2.2	2.1	2.2	2.1	2.3	2.9	2.7	2.4	2.3	2.3	2.3	2.4	3.4
26-Feb	2.2	2.3	2.2	Z	2.2	2.3	2.4	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.4
27-Feb	2.0	2.1	2.1	2.1	Z	2.1	2.2	2.2	2.1	2.1	2.1	2.2	UO	2.2	2.2	2.2	2.1	2.2	2.1	2.2	2.2	2.1	2.2	2.3	2.1	2.3
28-Feb	2.3	2.4	2.4	2.4	2.4	Z	3.0	2.9	2.5	3.1	2.3	2.2	2.2	2.3	2.2	2.1	2.3	2.3	2.9	3.2	2.3	2.2	2.3	2.4	2.5	3.2
	2.3	2.3	2.3	2.3	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.3	2.3	Diurnal Average	
	3.0	3.1	3.1	3.1	3.9	3.6	3.8	3.7	3.6	3.1	3.4	3.7	3.2	2.9	2.7	2.6	2.8	3.6	3.3	3.2	3.0	2.8	2.8	3.1	Diurnal Maximum	

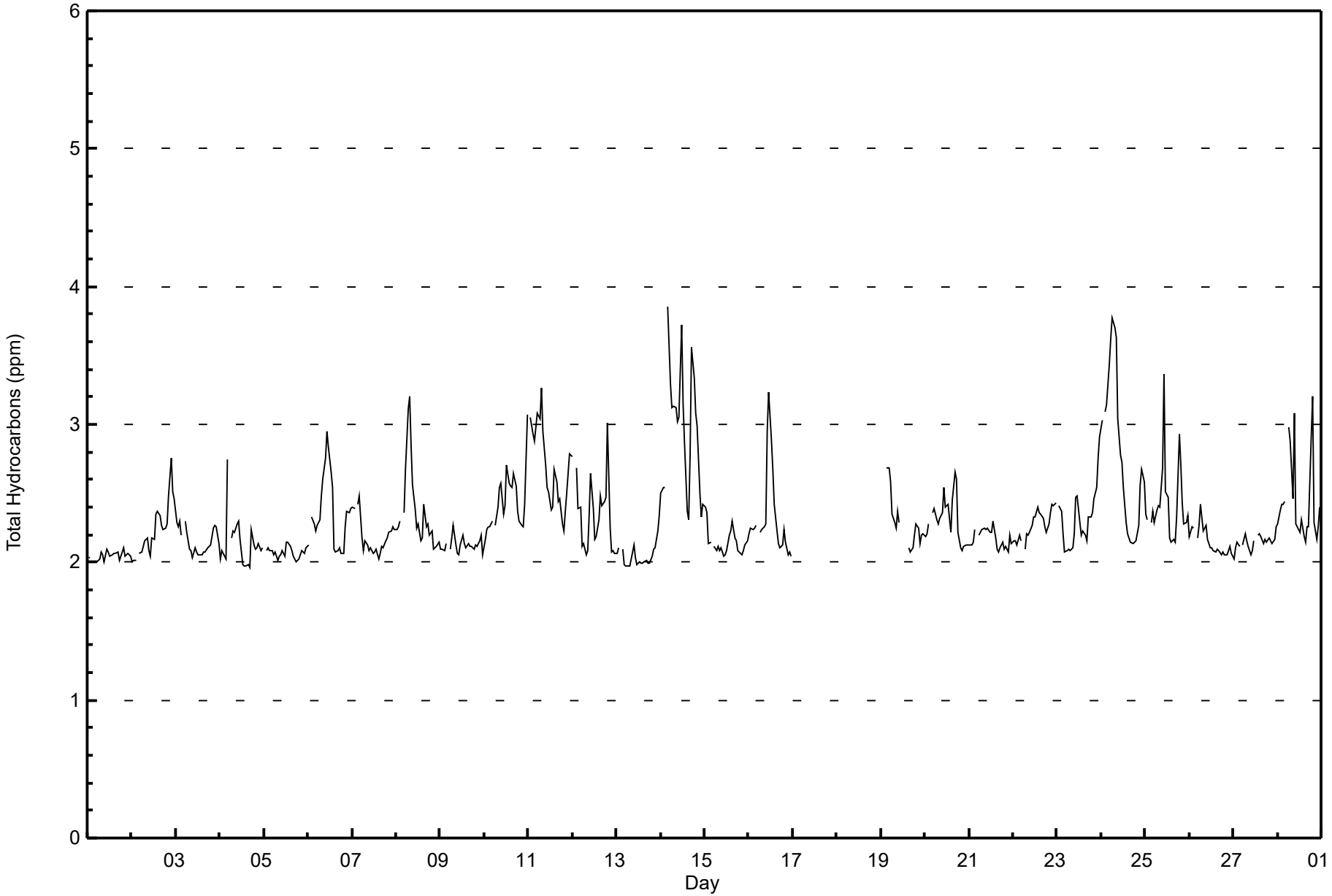
Z - zerospan C - Calibration UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Fort McKay South - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	53	8.97	8.97
2.1 - 3.0	511	86.46	95.43
3.1 - 10.0	27	4.57	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 591

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Fort McKay South - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	2	6	4	1	1	1	0	9	9	3	7	6	4	0	0	0	53
2.1 - 3.0	101	142	13	6	0	2	10	53	53	41	23	13	15	7	10	21	510
3.1 - 10.0	1	3	1	0	0	0	0	2	3	8	3	1	2	0	1	2	27
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	104	151	18	7	1	3	10	64	65	52	33	20	21	7	11	23	590

Total Number of Valid Hours: 590

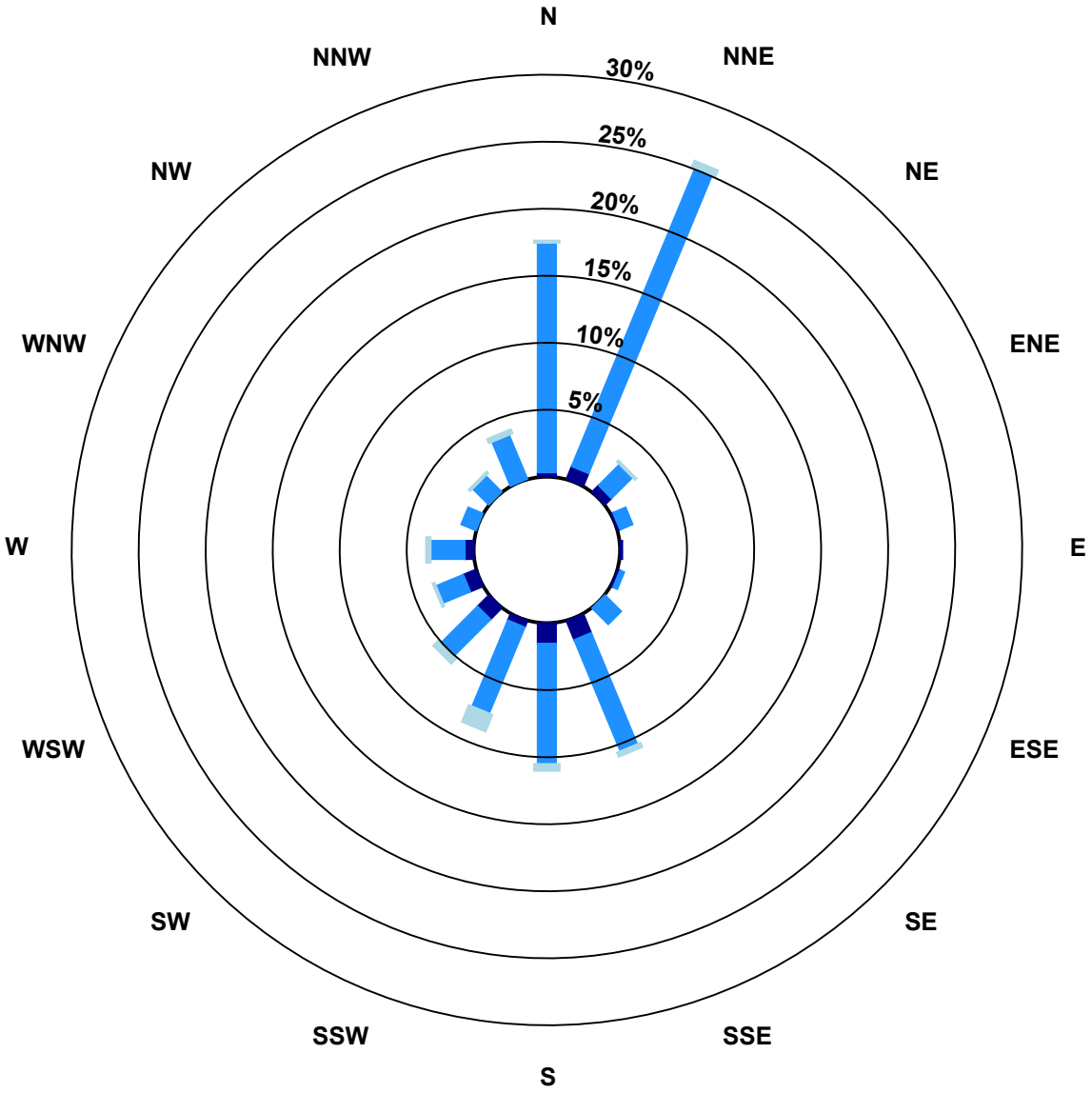
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Fort McKay South



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

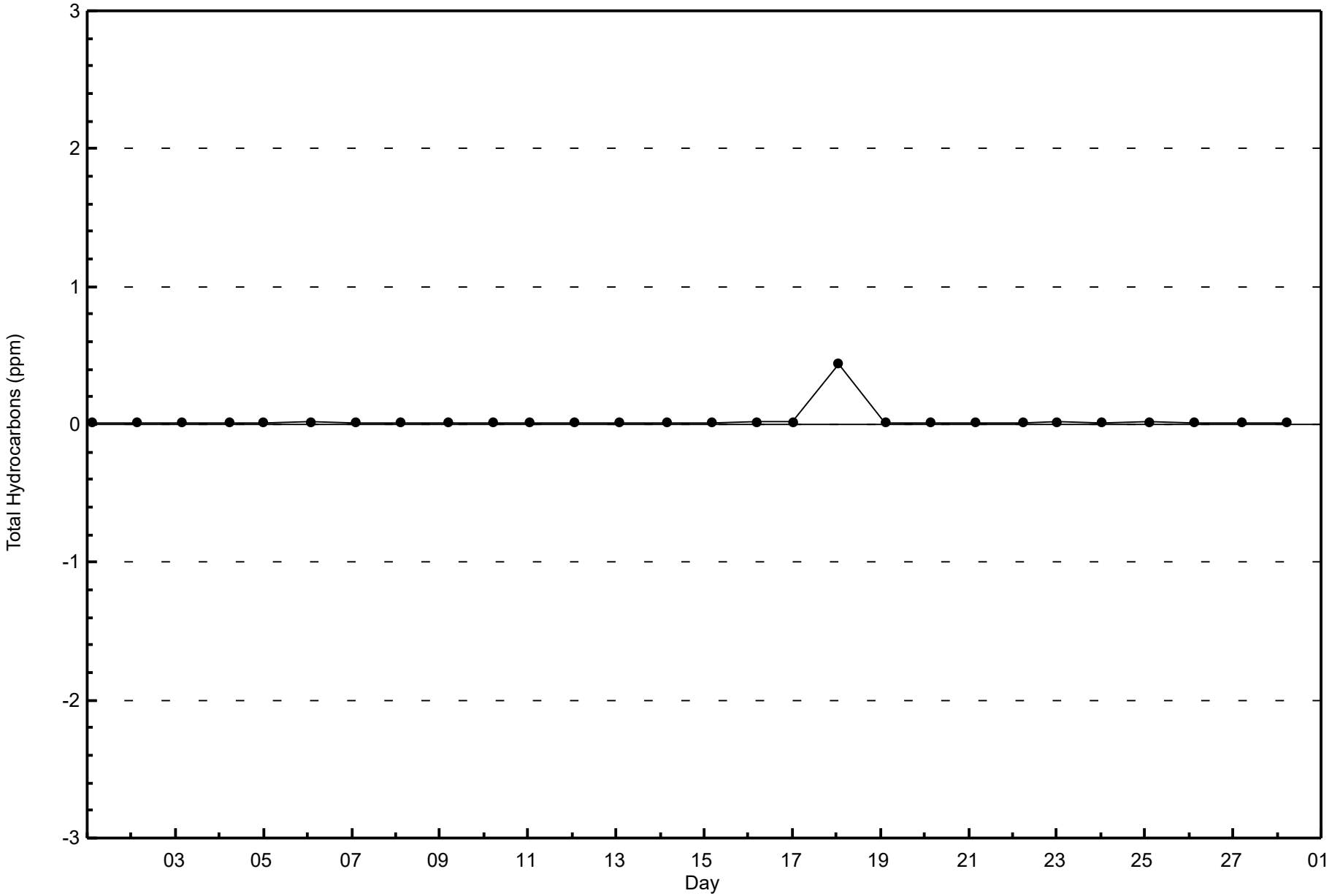
Total Number of Valid Hours: 590

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Fort McKay South - February 2026

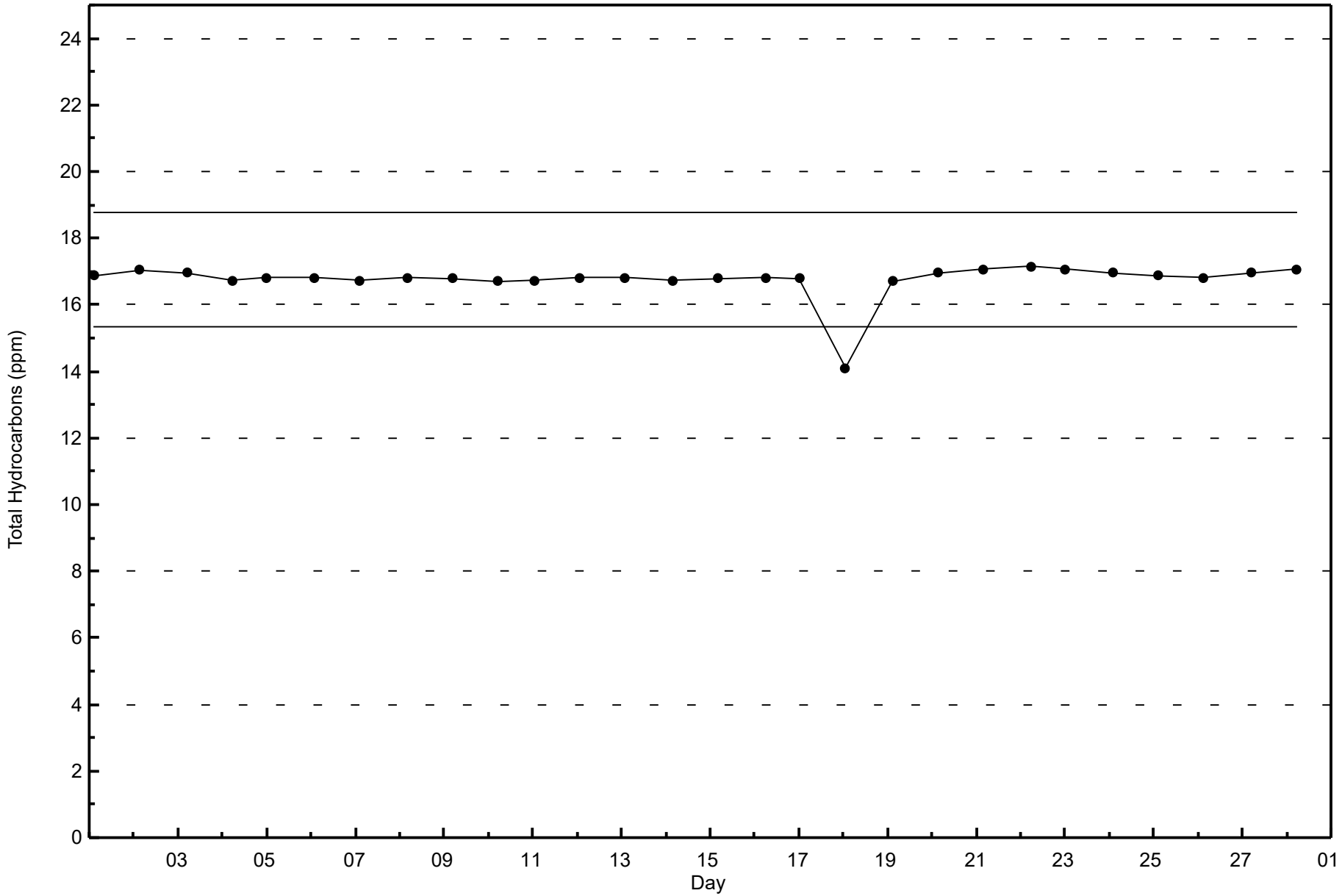


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Fort McKay South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay South - February 2026

Maximum Value: 0.695 ppm on Feb 16 12:00

Maximum Daily Average: 0.164 ppm on Feb 14

Minimum Value: 0.000 ppm on Feb 1 01:00

Minimum Daily Average: 0.002 ppm on Feb 13

Maximum Diurnal Average: 0.101 ppm at hour 13

Minimum Diurnal Average: 0.043 ppm at hour 1

Monthly Average: 0.067 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.1 P_{90} = 0.2 P_{99} = 0.4

Hours in Service:	672
Hours of Data:	591
Hours of Missing Data:	81
Hours of Calibration:	32
Percent Operational Time:	92.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.022	0.013	0.000	0.015	0.000	0.001	0.003	0.005	0.005	0.012	0.001	0.011	0.020	0.000	0.000	0.000	0.000	0.005	0.022
2-Feb	0.000	0.000	0.000	Z	0.001	0.003	0.004	0.001	0.002	0.000	0.010	0.078	0.068	0.105	0.146	0.108	0.086	0.081	0.082	0.093	0.098	0.138	0.111	0.097	0.057	0.146
3-Feb	0.080	0.091	0.074	0.052	Z	0.066	0.037	0.001	0.001	0.004	0.014	0.000	0.000	0.001	0.001	0.001	0.002	0.004	0.002	0.008	0.054	0.095	0.079	0.019	0.030	0.095
4-Feb	0.005	0.005	0.005	0.009	0.486	Z	0.047	0.069	0.062	0.064	0.057	0.026	0.002	0.001	0.001	0.001	0.002	0.097	0.083	0.044	0.044	0.066	0.037	0.058	0.055	0.486
5-Feb	Z	0.024	0.035	0.015	0.044	0.004	0.038	0.000	0.028	0.035	0.034	0.007	0.062	0.063	0.048	0.020	0.013	0.000	0.000	0.000	0.003	0.001	0.002	0.003	0.021	0.063
6-Feb	0.005	Z	0.069	0.053	0.054	0.051	0.067	0.108	0.136	0.161	0.156	0.134	0.113	0.095	0.004	0.001	0.000	0.010	0.000	0.000	0.078	0.093	0.085	0.086	0.068	0.161
7-Feb	0.081	0.084	Z	0.094	0.109	0.069	0.008	0.055	0.063	0.003	0.031	0.001	0.002	0.005	0.001	0.005	0.012	0.041	0.117	0.052	0.127	0.141	0.182	0.107	0.060	0.182
8-Feb	0.031	0.045	0.064	Z	0.224	0.105	0.099	0.141	0.133	0.098	0.037	0.070	0.176	0.078	0.070	0.365	0.159	0.079	0.053	0.058	0.001	0.000	0.002	0.000	0.091	0.365
9-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.003	0.001	0.000	0.001	0.034	0.099	0.075	0.048	0.073	0.076	0.054	0.030	0.050	0.017	0.025	0.030	0.000	0.027	0.099
10-Feb	0.029	0.066	0.059	0.028	0.058	Z	0.070	0.072	0.083	0.107	0.140	0.109	0.181	0.142	0.088	0.078	0.084	0.078	0.064	0.062	0.056	0.055	0.058	0.082	0.080	0.181
11-Feb	Z	0.084	0.077	0.096	0.137	0.150	0.127	0.112	0.115	0.136	0.126	0.108	0.117	0.142	0.112	0.040	0.027	0.021	0.007	0.003	0.029	0.053	0.092	0.086	0.087	0.150
12-Feb	0.084	Z	0.081	0.046	0.049	0.002	0.011	0.000	0.004	0.067	0.114	0.089	0.035	0.035	0.084	0.148	0.178	0.111	0.158	0.479	0.087	0.001	0.001	0.000	0.081	0.479
13-Feb	0.000	0.000	Z	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.001	0.017	0.034	0.002	0.034
14-Feb	0.053	0.067	0.080	Z	0.296	0.191	0.159	0.156	0.161	0.149	0.155	0.207	0.161	0.139	0.076	0.063	0.251	0.387	0.325	0.231	0.213	0.122	0.070	0.063	0.164	0.387
15-Feb	0.082	0.072	0.015	0.017	Z	0.049	0.001	0.004	0.000	0.000	0.000	0.001	0.016	0.080	0.112	0.193	0.078	0.044	0.014	0.001	0.003	0.009	0.016	0.015	0.036	0.193
16-Feb	0.052	0.076	0.062	0.051	0.041	Z	0.030	0.045	0.051	0.039	0.092	0.695	0.580	0.457	0.268	0.180	0.094	0.059	0.056	0.164	0.086	0.001	0.001	0.003	0.138	0.695
17-Feb	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
18-Feb	UO	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
19-Feb	UO	UO	Z	0.049	0.048	0.040	0.052	0.047	0.055	0.151	0.068	C	C	C	C	0.001	0.002	0.008	0.023	0.036	0.034	0.003	0.011	0.000	--	0.151
20-Feb	0.006	0.024	0.054	Z	0.093	0.110	0.076	0.071	0.079	0.084	0.134	0.160	0.178	0.130	0.074	0.220	0.235	0.258	0.092	0.020	0.006	0.001	0.005	0.006	0.092	0.258
21-Feb	0.023	0.031	0.029	0.094	Z	0.061	0.030	0.006	0.010	0.013	0.018	0.019	0.052	0.091	0.078	0.021	0.012	0.003	0.015	0.038	0.060	0.016	0.136	0.085	0.041	0.136
22-Feb	0.074	0.073	0.049	0.112	0.060	Z	0.035	0.142	0.119	0.102	0.143	0.170	0.166	0.193	0.179	0.153	0.125	0.073	0.012	0.005	0.020	0.052	0.059	0.061	0.095	0.193
23-Feb	Z	0.053	0.040	0.007	0.001	0.004	0.000	0.000	0.000	0.056	0.036	0.000	0.000	0.000	0.000	0.001	0.008	0.049	0.052	0.052	0.071	0.077	0.091	0.113	0.031	0.113
24-Feb	0.152	Z	0.207	0.213	0.204	0.213	0.226	0.219	0.206	0.120	0.078	0.116	0.178	0.122	0.080	0.030	0.000	0.007	0.007	0.008	0.047	0.083	0.088	0.080	0.117	0.226
25-Feb	0.058	0.045	Z	0.034	0.047	0.023	0.046	0.040	0.039	0.073	0.190	0.119	0.163	0.014	0.029	0.017	0.006	0.120	0.397	0.234	0.265	0.133	0.139	0.206	0.106	0.397
26-Feb	0.042	0.116	0.078	Z	0.057	0.141	0.238	0.075	0.121	0.146	0.037	0.000	0.000	0.001	0.001	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.238
27-Feb	0.000	0.060	0.099	0.054	Z	0.007	0.012	0.003	0.002	0.000	0.034	0.082	UO	0.098	0.124	0.084	0.003	0.017	0.006	0.012	0.010	0.003	0.023	0.077	0.037	0.124
28-Feb	0.096	0.098	0.099	0.095	0.096	Z	0.119	0.109	0.130	0.540	0.110	0.074	0.073	0.148	0.056	0.023	0.069	0.046	0.197	0.247	0.081	0.035	0.064	0.100	0.118	0.540
	0.043	0.051	0.061	0.053	0.100	0.061	0.059	0.058	0.062	0.083	0.070	0.092	0.101	0.089	0.067	0.071	0.059	0.063	0.069	0.074	0.057	0.046	0.054	0.053	Diurnal Average	
	0.152	0.116	0.207	0.213	0.486	0.213	0.238	0.219	0.206	0.540	0.190	0.695	0.580	0.457	0.268	0.365	0.251	0.387	0.397	0.479	0.265	0.141	0.182	0.206	Diurnal Maximum	

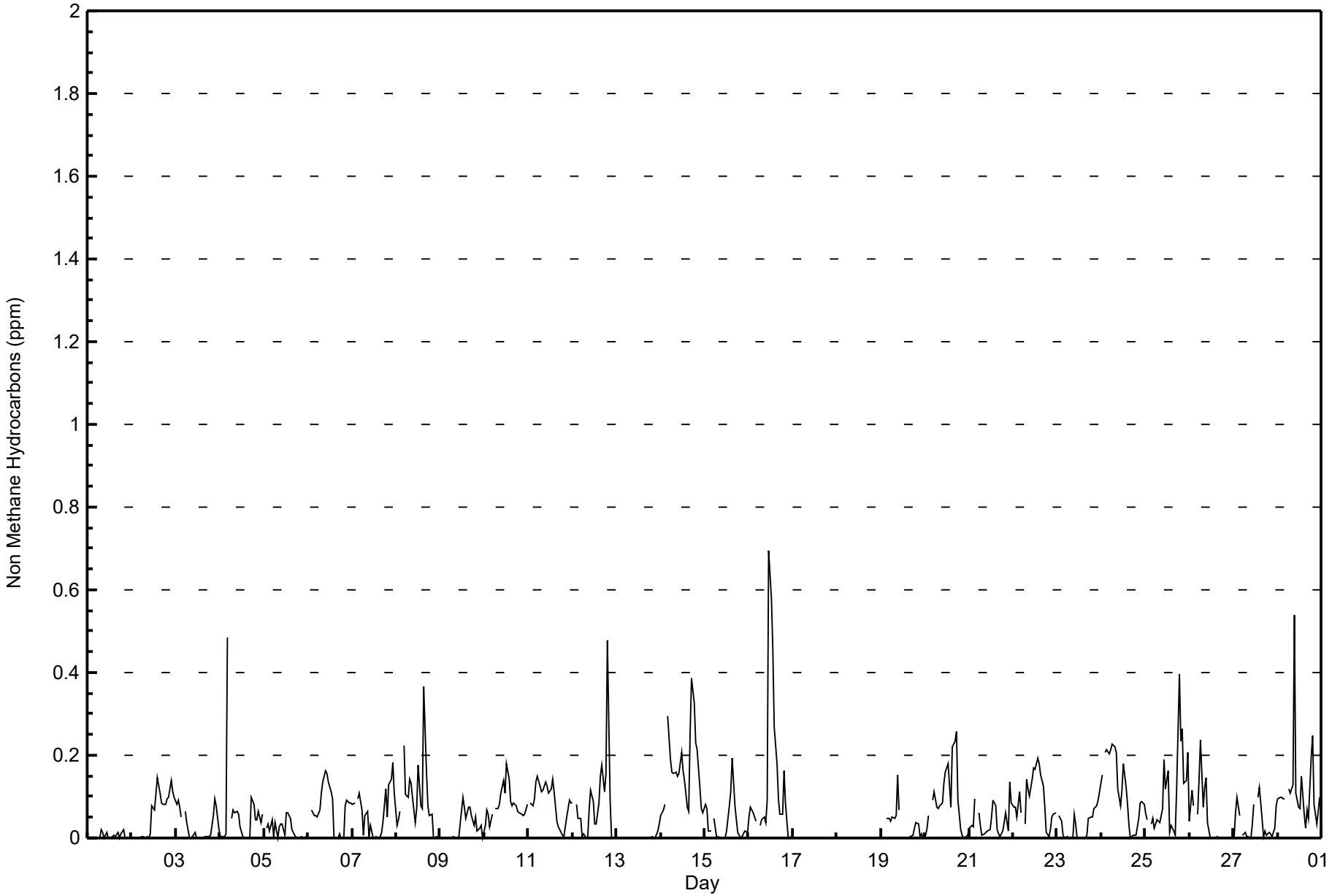
Z - zerospan C - Calibration UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay South - February 2026



Non Methane Hydrocarbons (NMHC) - ppm
Fort McKay South - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	158	26.73	26.73
0.006 - 0.05	159	26.90	53.64
0.06 - 0.1	211	35.70	89.34
> 0.1	63	10.66	100.00

Total Number of Valid Hours: 591

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay South - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	28	32	6	4	1	2	2	20	23	7	12	9	8	1	1	2	158
0.006 - 0.05	29	42	5	1	0	0	1	12	17	18	7	6	3	5	6	7	159
0.06 - 0.1	38	54	6	2	0	1	4	28	18	18	12	4	8	1	4	12	210
> 0.1	9	23	1	0	0	0	3	4	7	9	2	1	2	0	0	2	63
Totals	104	151	18	7	1	3	10	64	65	52	33	20	21	7	11	23	590

Total Number of Valid Hours: 590

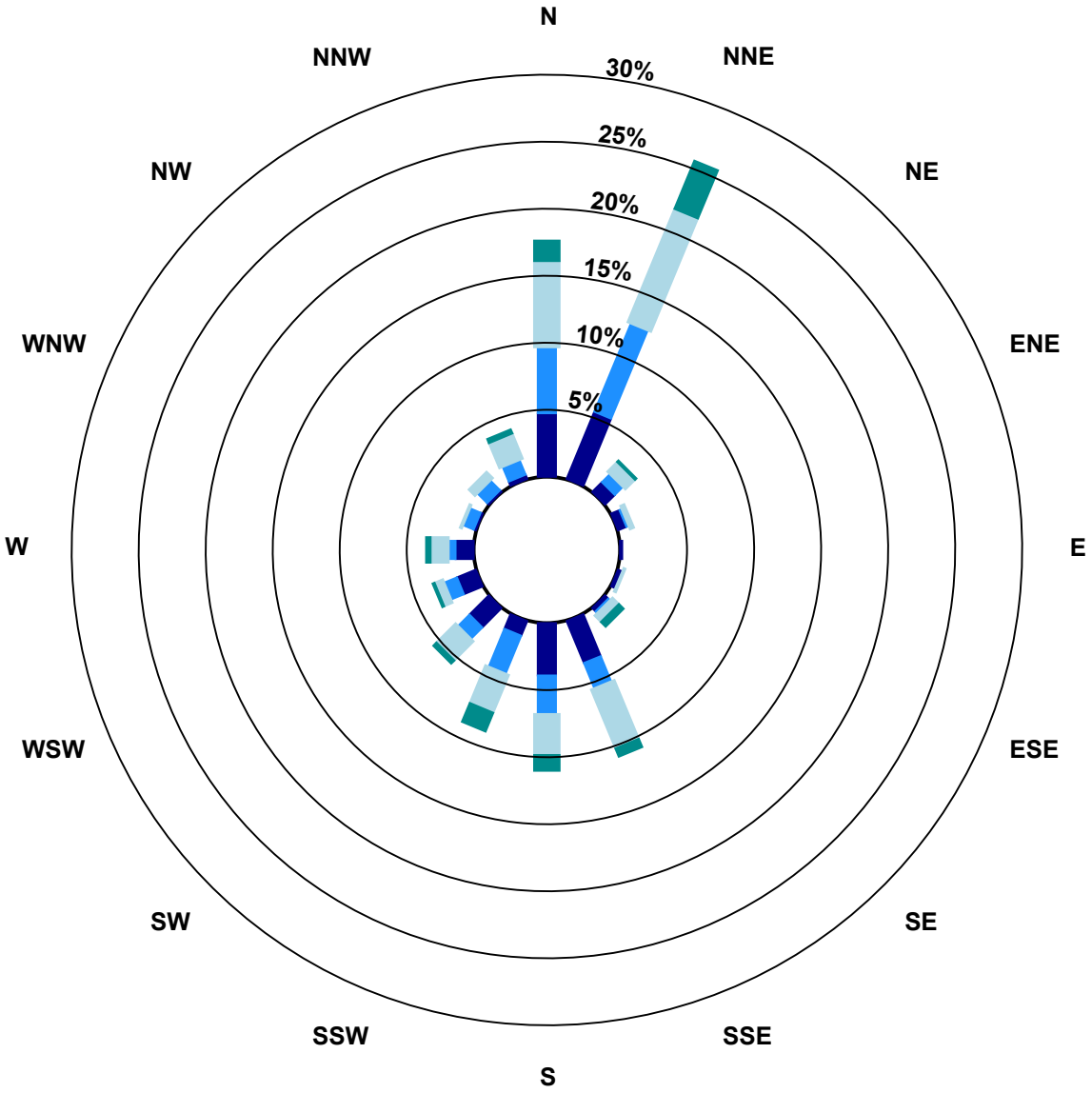
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay South



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

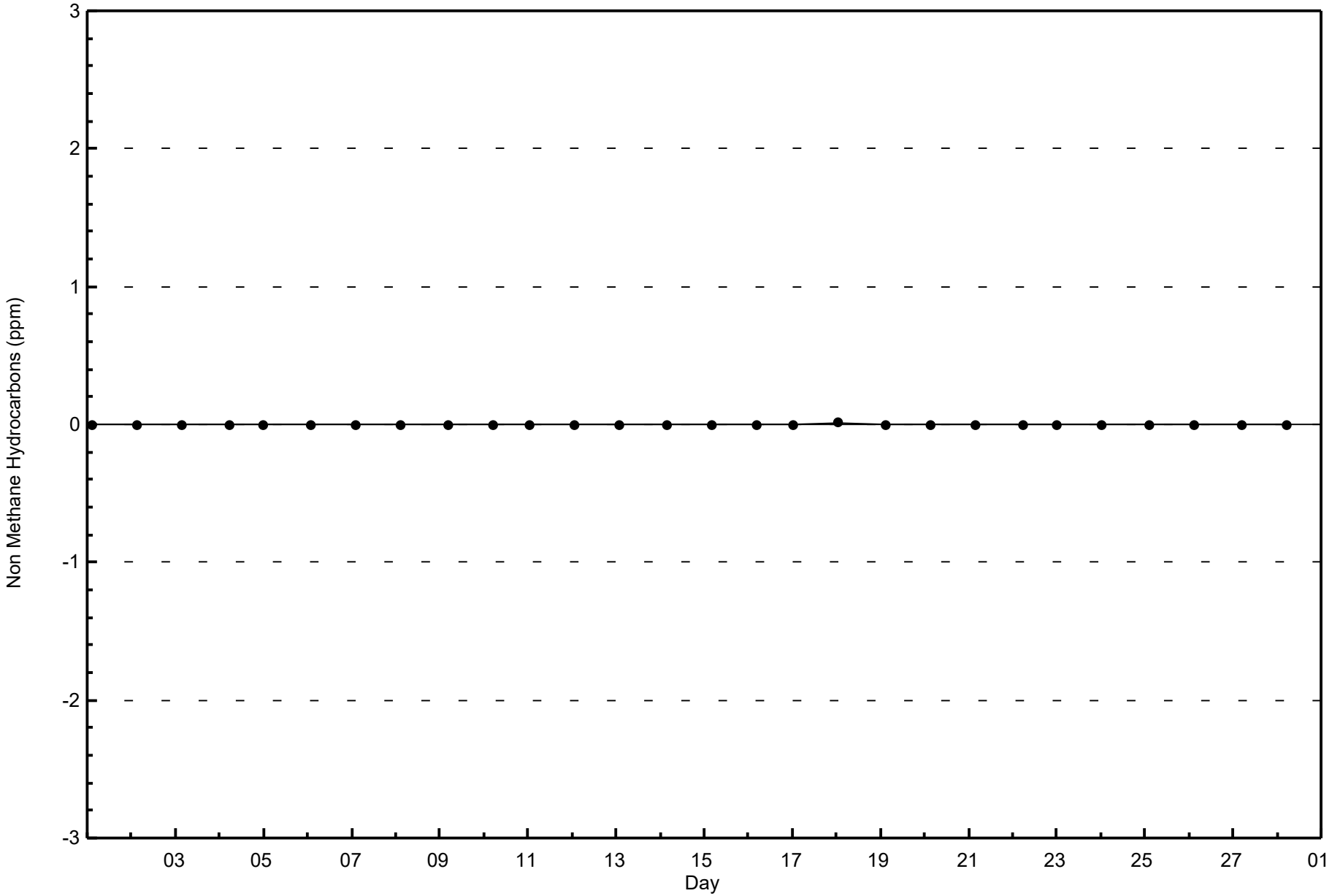
Total Number of Valid Hours: 590

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay South - February 2026

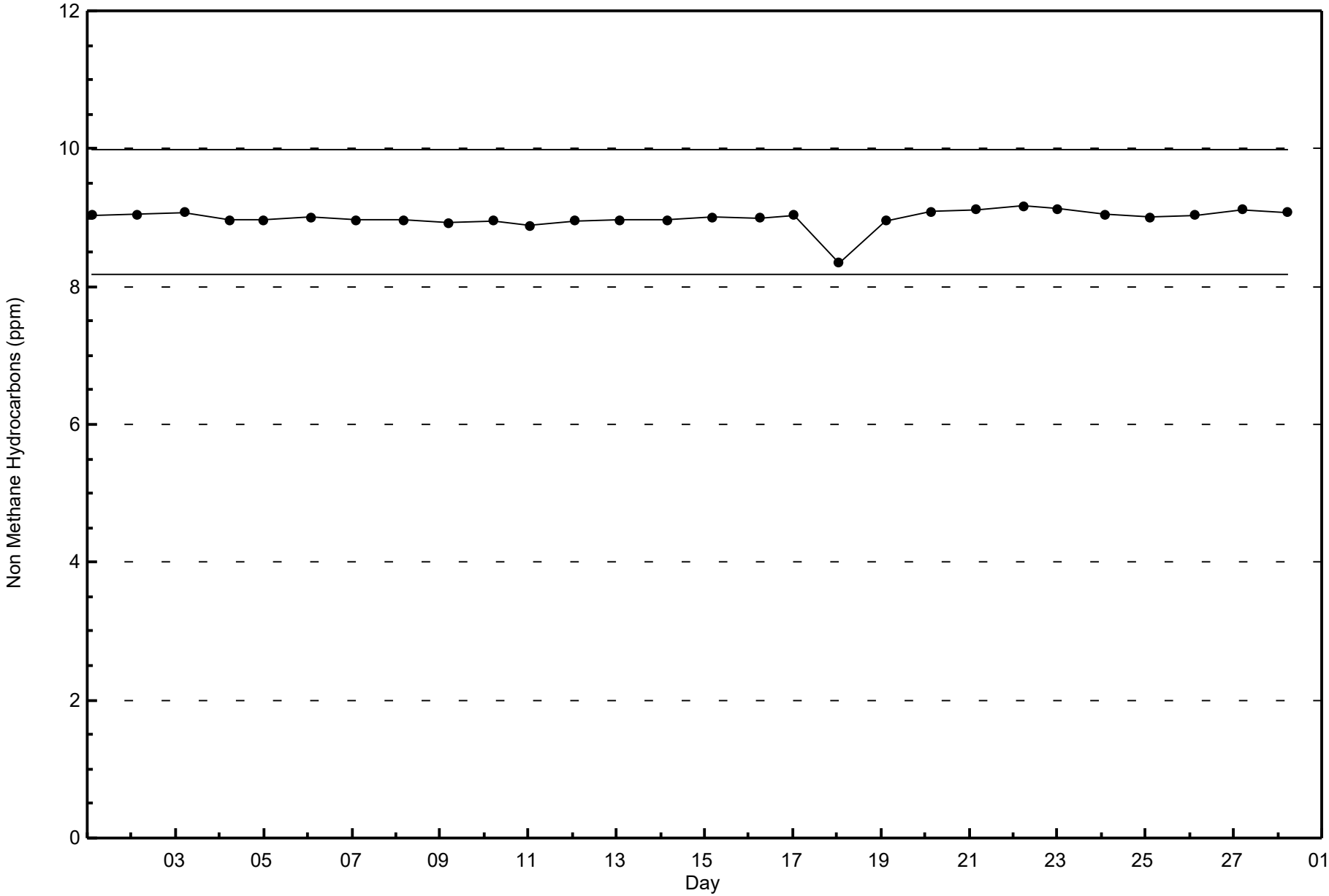


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Fort McKay South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Fort McKay South - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 3.6 ppm on Feb 14 05:00

Maximum Daily Average: 2.8 ppm on Feb 14

Minimum Value: 2.0 ppm on Feb 4 17:00

Minimum Daily Average: 2.0 ppm on Feb 1

Maximum Diurnal Average: 2.4 ppm at hour 5

Minimum Diurnal Average: 2.1 ppm at hour 16

Monthly Average: 2.24 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.1 Median = 2.1 Q_3 = 2.3 P_{90} = 2.6 P_{99} = 3.2

Hours in Service:	672
Hours of Data:	591
Hours of Missing Data:	81
Hours of Calibration:	32
Percent Operational Time:	92.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.1	2.1	2.0	2.0	2.1
2-Feb	2.0	2.0	2.0	Z	2.1	2.1	2.1	2.2	2.2	2.1	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.6	2.4	2.4	2.2	2.6
3-Feb	2.2	2.2	2.2	2.1	Z	2.2	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.2
4-Feb	2.0	2.1	2.0	2.0	2.3	Z	2.1	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.3
5-Feb	Z	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
6-Feb	2.1	Z	2.3	2.2	2.2	2.2	2.2	2.4	2.5	2.6	2.8	2.7	2.5	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.3	2.3	2.8
7-Feb	2.3	2.3	Z	2.3	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.4
8-Feb	2.2	2.2	2.2	Z	2.1	2.6	3.0	3.1	2.7	2.5	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.3	3.1
9-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.3
10-Feb	2.1	2.2	2.2	2.2	2.2	Z	2.2	2.3	2.5	2.5	2.2	2.3	2.5	2.4	2.5	2.5	2.6	2.5	2.3	2.2	2.2	2.2	2.4	3.0	2.4	3.0
11-Feb	Z	3.0	2.9	2.8	2.8	2.9	2.9	3.2	2.8	2.6	2.4	2.4	2.3	2.3	2.6	2.5	2.4	2.4	2.3	2.2	2.3	2.4	2.7	2.7	2.6	3.2
12-Feb	2.7	Z	2.6	2.3	2.4	2.1	2.1	2.0	2.1	2.3	2.5	2.3	2.1	2.2	2.2	2.3	2.2	2.3	2.3	2.5	2.2	2.1	2.1	2.1	2.3	2.7
13-Feb	2.1	2.1	Z	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.3	2.0	2.3
14-Feb	2.5	2.5	2.5	Z	3.6	3.1	3.0	3.0	3.0	2.9	2.9	3.5	3.0	2.7	2.3	2.2	2.5	3.2	3.0	2.9	2.8	2.4	2.3	2.4	2.8	3.6
15-Feb	2.3	2.3	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.3
16-Feb	2.2	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.9	2.5	2.3	2.2	2.2	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.2	2.9
17-Feb	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
18-Feb	UO	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
19-Feb	UO	UO	Z	2.6	2.6	2.5	2.3	2.2	2.2	2.2	2.2	C	C	C	C	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.2	2.2	--	2.6
20-Feb	2.2	2.2	2.2	Z	2.3	2.3	2.2	2.2	2.2	2.3	2.4	2.2	2.2	2.2	2.1	2.2	2.4	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.4
21-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
22-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.2	2.4
23-Feb	Z	2.4	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.4	2.5	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.5	2.7	2.8	2.3	2.8
24-Feb	2.9	Z	2.9	2.9	3.2	3.4	3.5	3.5	3.4	2.9	2.7	2.6	2.4	2.2	2.1	2.2	2.1	2.1	2.1	2.2	2.2	2.5	2.6	2.5	2.7	3.5
25-Feb	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.4	2.4	2.6	3.2	2.4	2.3	2.2	2.1	2.1	2.1	2.2	2.5	2.5	2.2	2.1	2.1	2.1	2.3	3.2
26-Feb	2.1	2.1	2.2	Z	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
27-Feb	2.0	2.0	2.0	2.1	Z	2.1	2.2	2.2	2.1	2.1	2.1	2.1	UO	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.2	2.1	2.2
28-Feb	2.2	2.3	2.3	2.3	2.3	Z	2.9	2.8	2.3	2.5	2.2	2.2	2.1	2.2	2.1	2.1	2.2	2.2	2.7	3.0	2.2	2.1	2.2	2.3	2.3	3.0
	2.2	2.2	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	Diurnal Average	
	2.9	3.0	2.9	2.9	3.6	3.4	3.5	3.5	3.4	2.9	3.2	3.5	3.0	2.7	2.6	2.5	2.6	3.2	3.0	3.0	2.8	2.6	2.7	3.0	Diurnal Maximum	

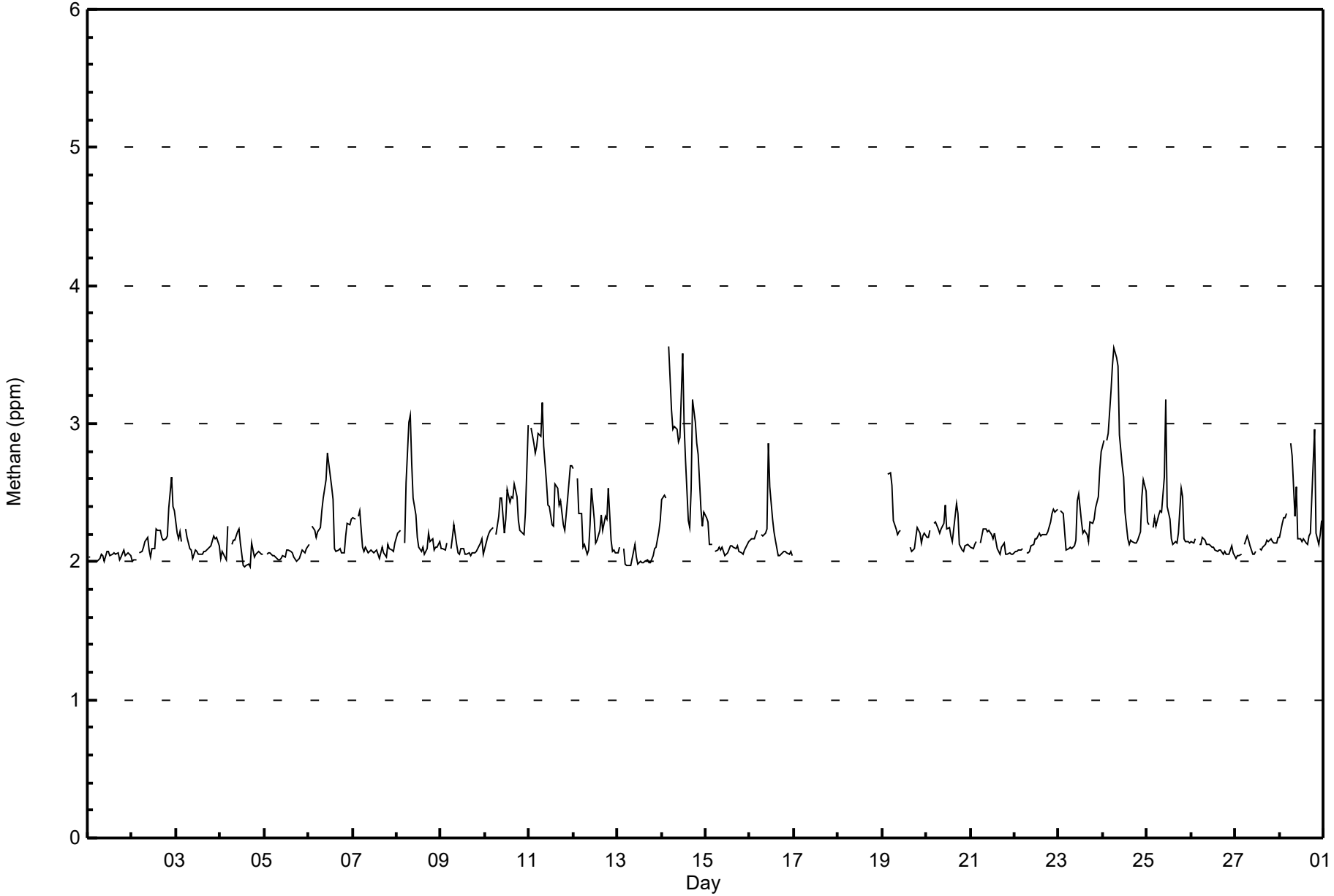
Z - zerospan C - Calibration UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Fort McKay South - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	67	11.34	11.34
2.1 - 3.0	512	86.63	97.97
3.1 - 10.0	12	2.03	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 591

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Fort McKay South - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	5	15	4	1	1	1	0	10	9	3	7	6	4	0	0	1	67
2.1 - 3.0	99	134	14	6	0	2	10	53	54	44	25	14	17	7	10	22	511
3.1 - 10.0	0	2	0	0	0	0	0	1	2	5	1	0	0	0	1	0	12
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	104	151	18	7	1	3	10	64	65	52	33	20	21	7	11	23	590

Total Number of Valid Hours: 590

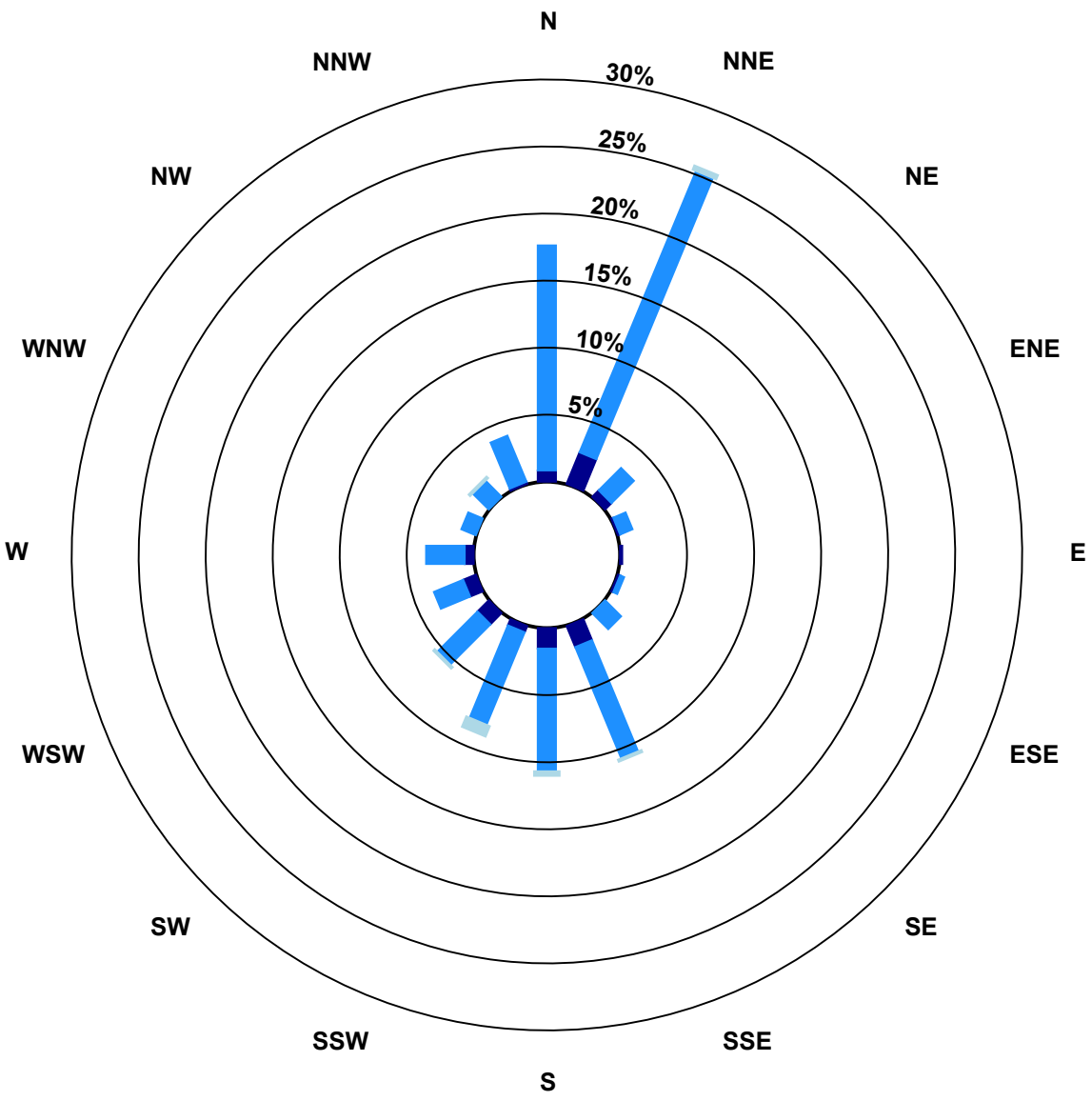
Total Number of Hours: 672

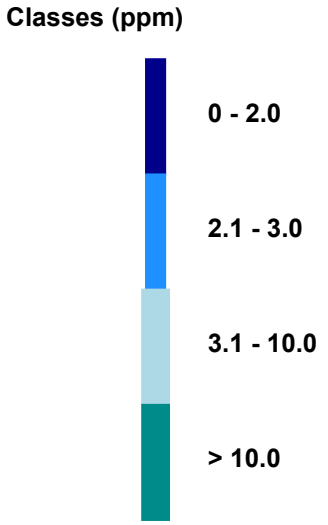
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Fort McKay South





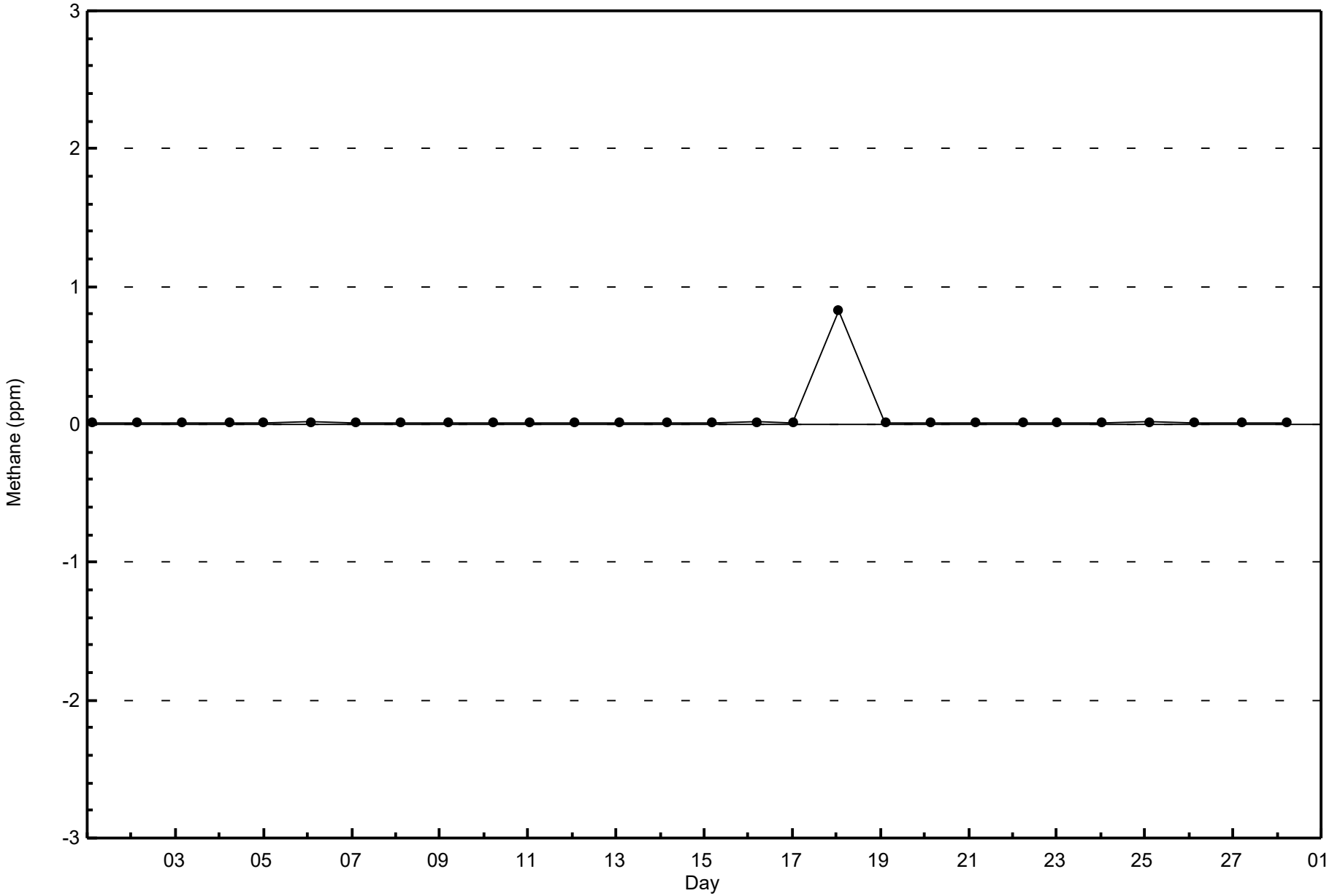
Total Number of Valid Hours: 590

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Fort McKay South - February 2026

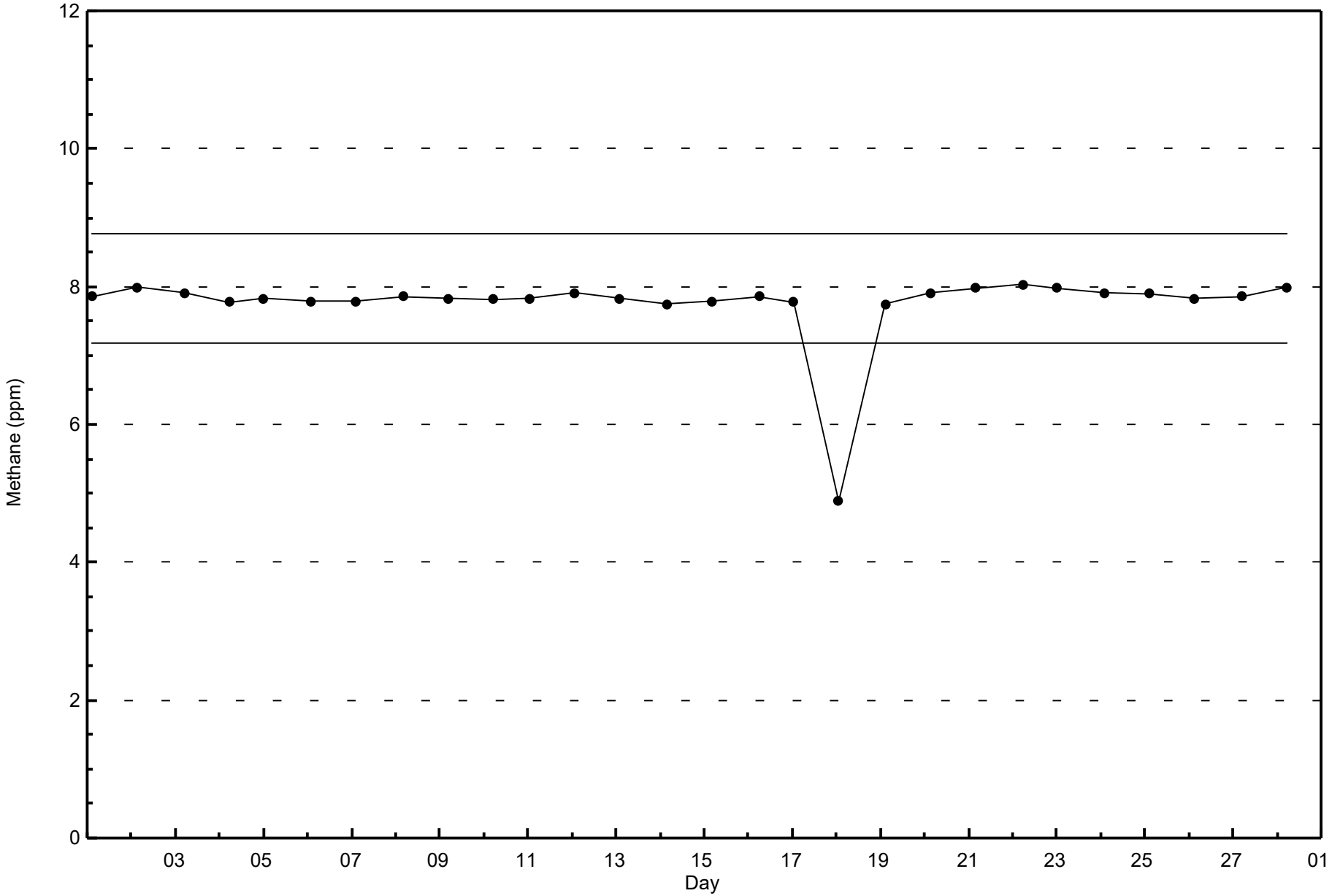


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Fort McKay South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ozone (O_3) - ppb

Fort McKay South - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 46.0 ppb on Feb 13 15:00
Maximum Daily Average: 34.1 ppb on Feb 13

Minimum Value: 1.0 ppb on Feb 28 04:00
Minimum Daily Average: 3.8 ppb on Feb 22
Maximum Diurnal Average: 24.8 ppb at hour 15
Minimum Diurnal Average: 11.4 ppb at hour 5
Monthly Average: 16.11 ppb
Percentiles: P_1 = 1.2 P_{10} = 1.8 Q_1 = 5.6 Median = 15.9 Q_3 = 24.9 P_{90} = 29.8 P_{99} = 42.8

Hours in Service:	672
Hours of Data:	593
Hours of Missing Data:	79
Hours of Calibration:	30
Percent Operational Time:	92.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	33.0	33.4	37.7	37.9	Z	34.8	28.1	22.8	24.4	32.6	29.1	28.1	31.5	29.7	29.9	30.1	29.0	32.6	31.7	30.7	29.0	28.4	22.3	28.2	30.2	37.9
2-Feb	35.2	34.9	33.8	32.5	26.4	Z	28.8	27.0	25.5	23.0	24.7	24.3	24.8	25.1	22.9	20.7	20.0	15.5	9.0	10.9	4.0	1.7	2.0	2.0	20.6	35.2
3-Feb	Z	10.0	13.8	20.4	20.7	20.1	18.0	20.6	19.8	24.4	22.0	27.7	26.8	25.3	25.3	23.2	20.5	17.1	13.8	11.1	8.5	6.3	7.0	22.6	18.5	27.7
4-Feb	24.7	Z	24.1	22.7	13.0	7.0	9.6	4.8	3.4	4.5	7.7	24.3	27.8	28.5	30.1	30.9	31.8	20.6	22.3	25.2	25.5	22.7	23.4	23.2	19.9	31.8
5-Feb	22.7	26.1	Z	29.5	28.4	29.8	29.1	32.8	32.1	31.4	29.7	29.8	28.2	28.1	27.8	27.0	27.9	32.0	29.6	23.7	16.1	22.0	18.0	12.2	26.7	32.8
6-Feb	9.9	11.0	8.2	Z	3.9	1.7	1.4	1.2	2.4	3.4	4.0	5.0	6.4	8.3	19.3	18.6	19.8	17.8	7.1	4.5	5.9	3.5	2.1	1.5	7.3	19.8
7-Feb	1.5	1.9	3.0	2.0	Z	17.7	24.4	25.5	28.6	30.2	30.0	30.5	30.1	28.7	28.2	28.4	28.0	26.0	24.1	24.3	26.4	24.1	16.8	15.7	21.6	30.5
8-Feb	11.5	10.7	9.0	6.6	13.0	Z	1.5	1.6	2.7	8.3	12.5	18.1	25.9	27.8	27.2	28.2	23.7	19.9	17.7	19.3	16.4	22.8	21.5	17.7	15.8	28.2
9-Feb	Z	11.9	10.1	11.1	13.5	12.6	14.4	4.5	16.1	24.5	25.1	C	C	C	29.7	29.4	26.9	24.9	25.1	24.3	27.5	28.8	27.8	24.2	20.6	29.7
10-Feb	20.5	Z	11.3	11.4	6.4	5.8	9.2	3.7	5.0	9.3	14.6	11.6	10.7	15.2	13.5	9.7	4.9	2.4	1.8	1.7	1.6	1.6	1.6	1.7	7.6	20.5
11-Feb	1.6	1.7	Z	1.6	1.4	1.7	1.8	1.6	2.9	6.5	12.2	17.4	21.2	24.3	26.7	18.4	11.8	3.9	4.7	4.8	3.7	2.8	1.8	1.7	7.7	26.7
12-Feb	1.9	2.0	2.0	Z	3.2	11.0	9.8	9.2	10.1	14.5	25.6	33.4	36.7	35.7	26.6	21.1	29.9	25.7	25.8	37.9	39.6	39.4	41.1	39.6	22.7	41.1
13-Feb	39.9	39.5	40.2	38.8	Z	42.8	40.6	43.3	41.5	32.9	41.7	44.4	44.0	44.4	46.0	44.8	40.2	30.2	23.6	19.9	17.3	12.4	9.1	6.6	34.1	46.0
14-Feb	3.2	1.7	1.7	1.7	1.7	Z	1.8	1.7	3.4	7.2	11.3	8.6	10.9	15.2	26.2	27.6	14.4	2.4	2.2	2.1	2.0	3.8	5.0	3.3	6.9	27.6
15-Feb	Z	15.6	20.9	20.7	19.1	19.6	26.5	28.1	27.2	25.4	27.4	26.3	26.8	26.1	25.9	22.9	21.8	17.6	17.9	16.7	13.4	11.7	7.7	5.4	20.5	28.1
16-Feb	4.9	Z	7.1	7.5	6.3	5.0	2.8	1.5	4.5	8.4	8.7	13.9	18.3	15.4	14.1	16.0	14.7	12.1	9.8	8.1	10.6	9.5	5.6	8.2	9.3	18.3
17-Feb	8.5	13.1	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	13.1
18-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
19-Feb	UO	UO	UO	UO	Z	1.3	1.4	1.4	3.1	6.2	8.4	10.5	12.4	14.3	18.3	20.2	19.9	10.6	3.6	7.3	13.1	16.4	14.4	11.9	10.2	20.2
20-Feb	12.7	11.0	7.5	7.4	7.7	Z	8.2	8.8	11.5	13.1	17.0	18.9	22.6	22.3	25.2	21.1	10.3	6.4	17.0	21.4	19.4	10.1	8.3	7.9	13.7	25.2
21-Feb	Z	7.7	3.7	3.7	5.1	5.3	2.9	1.6	4.8	8.4	11.8	14.4	18.8	20.8	24.4	25.7	26.5	18.4	15.2	16.8	12.6	9.9	5.5	3.7	11.6	26.5
22-Feb	3.7	Z	6.2	3.0	2.3	1.6	1.6	1.8	3.4	5.3	5.6	6.4	7.6	7.9	8.3	7.0	5.5	3.2	1.5	1.3	1.3	1.3	1.3	1.3	3.8	8.3
23-Feb	1.4	1.2	Z	7.3	14.4	18.1	19.2	15.2	15.7	19.8	20.6	14.5	18.2	23.7	21.3	22.3	23.5	10.4	4.0	2.7	1.8	1.7	1.4	1.8	12.2	23.7
24-Feb	1.6	1.6	1.6	Z	1.6	1.7	1.6	1.8	4.1	8.1	14.0	18.5	21.0	23.9	24.1	22.8	23.0	16.3	11.1	8.8	8.9	3.8	2.0	1.8	9.7	24.1
25-Feb	2.1	2.6	3.2	2.9	Z	3.9	2.7	4.1	9.8	13.6	15.9	25.3	24.9	23.6	23.9	23.8	21.9	12.5	2.0	6.5	21.8	21.6	22.4	21.5	13.6	25.3
26-Feb	21.7	21.8	25.2	24.5	24.1	Z	12.9	16.1	20.3	19.9	24.4	27.1	29.4	30.9	31.7	30.2	27.7	31.2	29.1	29.2	27.6	22.9	22.0	24.4	25.0	31.7
27-Feb	Z	26.8	25.8	28.0	26.6	24.9	22.1	19.3	19.3	18.7	18.9	18.7	18.0	18.7	17.9	15.2	12.4	6.1	2.9	1.9	2.0	2.7	3.3	4.2	15.4	28.0
28-Feb	2.7	Z	1.2	1.0	1.1	1.1	1.2	2.4	7.4	13.2	17.1	20.9	23.0	28.1	30.2	30.9	28.5	20.6	14.1	16.9	17.0	17.9	9.6	6.2	13.6	30.9
	12.6	13.6	13.5	14.7	11.4	12.7	12.4	11.6	13.4	15.9	18.4	20.7	22.7	23.7	24.8	23.7	21.7	16.8	14.1	14.5	14.4	13.4	11.7	11.5	Diurnal Average	
	39.9	39.5	40.2	38.8	28.4	42.8	40.6	43.3	41.5	32.9	41.7	44.4	44.0	44.4	46.0	44.8	40.2	32.6	31.7	37.9	39.6	39.4	41.1	39.6	Diurnal Maximum	

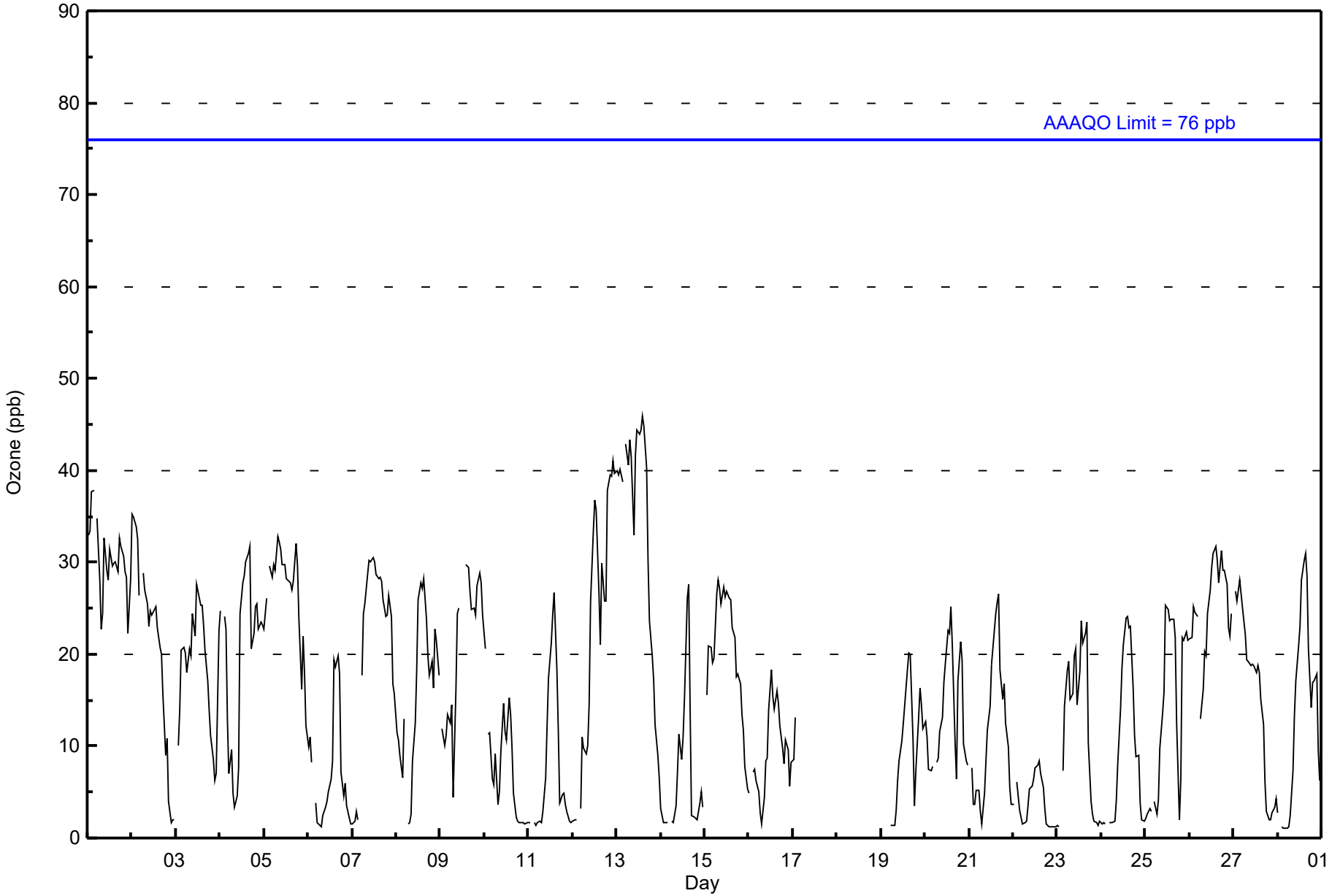
Z - zerospan C - Calibration UO - Unstable Operation
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 76 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ozone (O_3) - ppb

Fort McKay South - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	362	61.05	61.05
21 - 50	231	38.95	100.00
51 - 82	0	0.00	100.00
> 83	0	0.00	100.00

Total Number of Valid Hours: 593

Total Number of Hours: 672

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	79	66	9	3	0	2	7	26	33	45	19	13	18	7	10	24	361
21 - 50	25	85	10	4	1	2	3	41	32	5	13	7	3	0	0	0	231
51 - 82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	104	151	19	7	1	4	10	67	65	50	32	20	21	7	10	24	592

Total Number of Valid Hours: 592

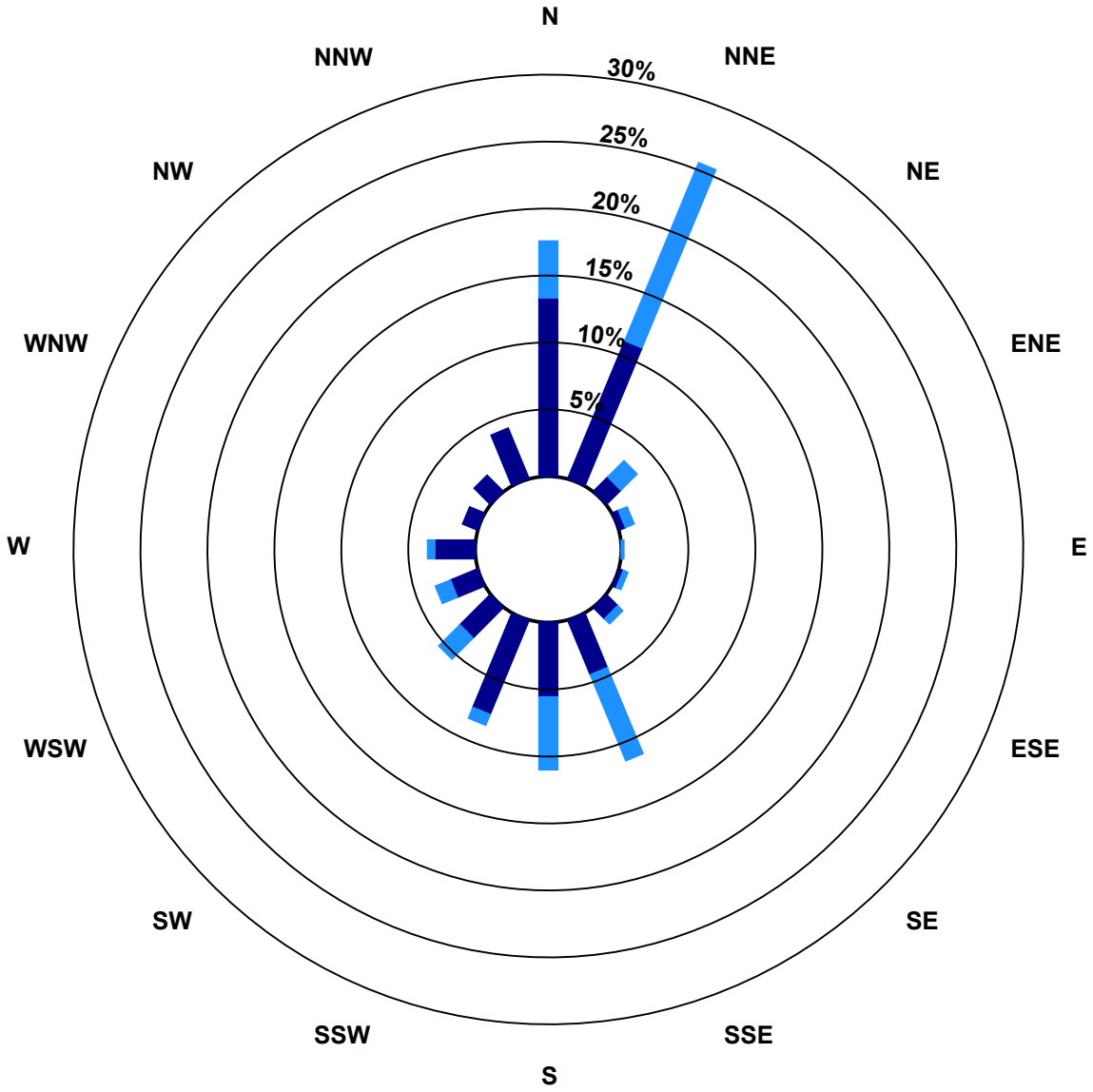
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Ozone (O_3) - ppb

Fort McKay South



Classes (ppb)

- 0 - 20
- 21 - 50
- 51 - 82
- > 83

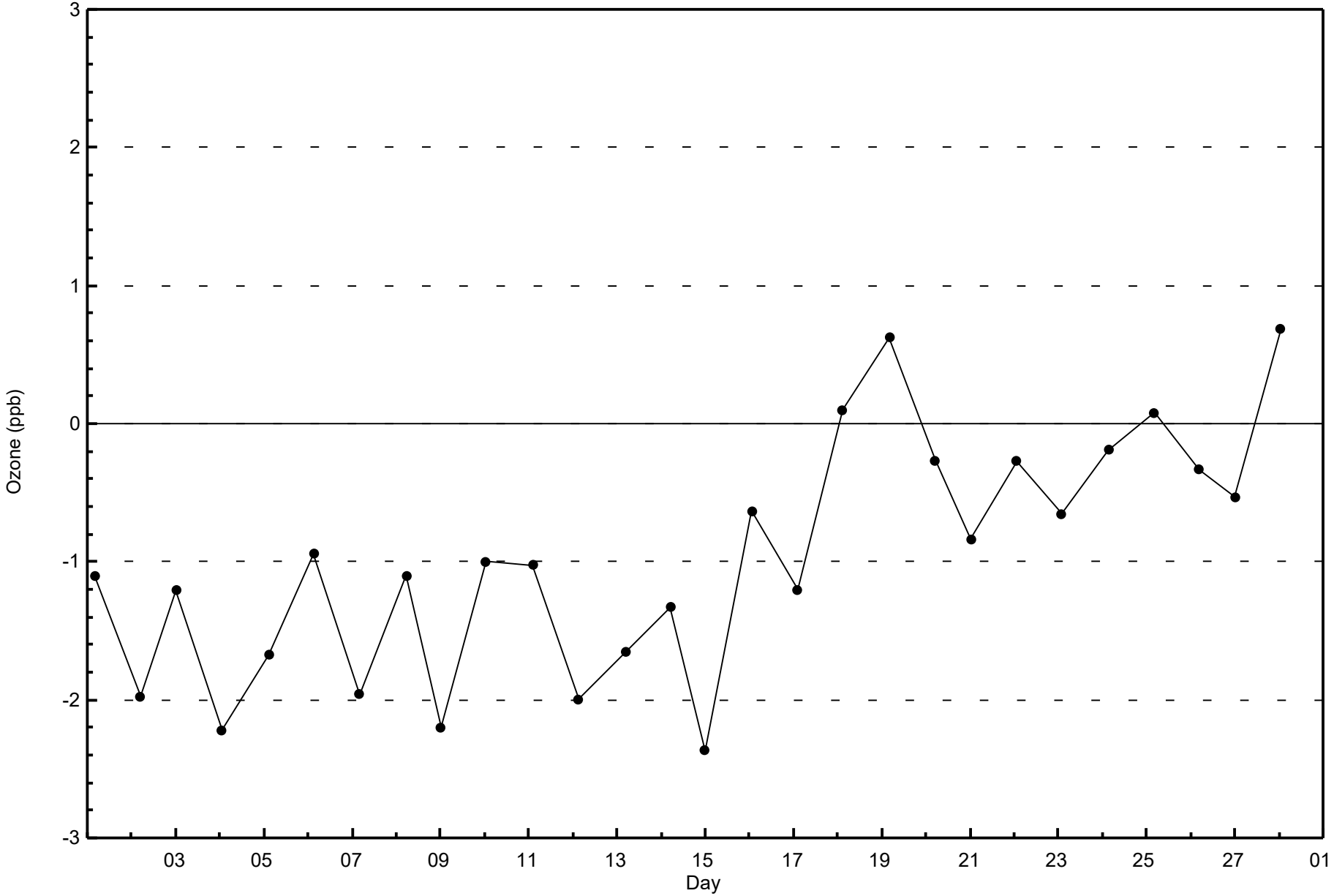
Total Number of Valid Hours: 592

Wood Buffalo Environmental Association

Zero Responses

Ozone (O_3) - ppb

Fort McKay South - February 2026

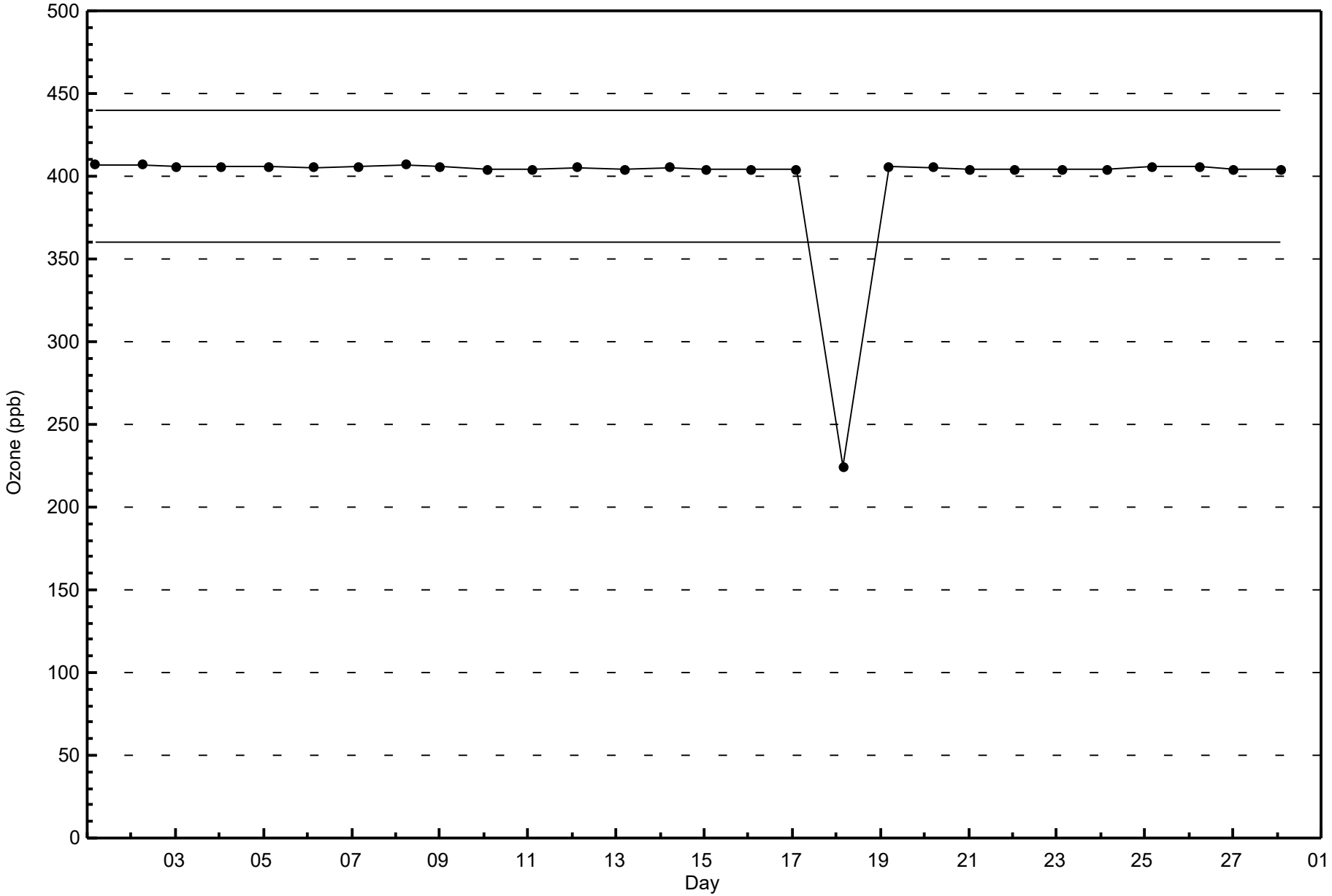


Wood Buffalo Environmental Association

Span Responses

Ozone (O_3) - ppb

Fort McKay South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Fort McKay South - February 2026

Maximum Value: 100.5 ppb on Feb 28 07:00

Maximum Daily Average: 39.0 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 1 04:00

Minimum Daily Average: 0.3 ppb on Feb 13

Maximum Diurnal Average: 14.6 ppb at hour 11

Minimum Diurnal Average: 3.3 ppb at hour 23

Monthly Average: 8.60 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 1.3 Q_3 = 8.3 P_{90} = 24.9 P_{99} = 77.8

Hours in Service:	672
Hours of Data:	597
Hours of Missing Data:	75
Hours of Calibration:	32
Percent Operational Time:	93.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	1.6	2.8	2.6	2.9	2.4	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.9
2-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	2.0	2.7	2.2	2.3	2.5	1.5	0.6	0.0	0.0	0.0	22.1	37.3	5.4	3.1	3.6	37.3
3-Feb	0.7	0.1	Z	0.0	0.0	0.0	0.1	0.1	0.4	0.9	2.7	1.6	2.4	2.4	1.6	1.3	0.6	0.2	0.1	0.2	0.2	0.2	0.3	0.1	0.7	2.7
4-Feb	0.1	0.1	0.0	Z	0.0	0.1	0.0	0.4	1.2	5.3	7.2	2.5	0.8	0.5	0.3	0.3	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	7.2
5-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.4	1.2	1.8	2.9	3.2	2.4	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.2
6-Feb	0.1	0.0	0.0	0.0	0.7	Z	4.1	15.9	28.3	47.7	68.2	58.1	37.5	27.4	2.4	2.1	0.9	0.2	0.1	0.3	0.1	0.3	0.8	3.0	13.0	68.2
7-Feb	Z	3.0	0.8	2.4	5.0	0.0	0.0	0.0	0.1	0.5	0.9	1.3	1.6	1.7	1.6	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.0
8-Feb	0.1	Z	0.3	0.7	0.1	7.1	22.8	20.7	10.4	6.9	6.7	5.6	2.3	1.5	1.4	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.8	22.8
9-Feb	0.1	0.0	Z	0.0	0.1	0.1	0.1	3.5	0.6	1.1	1.9	3.3	6.1	4.1	2.3	1.6	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.1
10-Feb	0.0	0.0	0.0	Z	0.3	0.3	0.1	0.8	7.0	13.5	13.6	20.4	27.4	16.6	18.7	21.6	30.4	23.9	19.0	15.7	13.5	9.9	16.2	59.6	14.3	59.6
11-Feb	67.7	62.9	51.5	36.8	Z	19.9	27.2	50.6	40.3	29.5	20.7	17.0	10.7	9.3	6.9	11.2	6.6	3.3	0.9	0.2	0.4	3.1	17.2	23.9	22.5	67.7
12-Feb	24.5	23.9	17.3	5.2	4.3	Z	1.6	0.7	2.0	7.3	6.8	3.8	2.1	2.2	4.0	3.3	0.6	0.1	0.1	0.0	0.1	0.0	0.1	0.1	4.8	24.5
13-Feb	Z	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.3	1.9	1.0	0.4	0.8	0.7	0.3	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.9
14-Feb	1.0	Z	26.2	68.8	98.4	45.5	29.8	30.4	41.2	41.4	36.8	69.3	52.2	32.0	7.8	4.6	19.6	87.4	77.7	59.8	51.9	11.9	2.1	0.7	39.0	98.4
15-Feb	1.6	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.3	1.5	1.6	2.4	3.7	3.7	5.0	5.2	2.4	0.4	0.0	0.1	0.0	0.0	0.2	0.1	1.2	5.2
16-Feb	0.1	0.1	0.1	Z	0.1	0.3	1.6	12.4	17.1	19.9	50.1	34.9	19.6	22.7	17.3	4.0	2.5	0.9	0.2	0.3	0.1	0.1	0.6	0.2	8.9	50.1
17-Feb	0.2	0.0	0.1	0.0	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	0.2
18-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
19-Feb	Z	30.4	41.2	65.6	63.2	55.1	36.0	29.3	24.0	22.0	17.6	14.2	12.5	9.2	6.2	4.8	3.2	1.7	1.6	0.2	0.0	0.0	0.0	0.0	19.0	65.6
20-Feb	0.0	Z	0.1	0.1	0.2	0.1	0.0	0.5	6.3	20.9	19.1	18.6	17.0	19.8	13.8	13.9	24.0	11.5	0.5	0.0	0.0	0.1	0.1	0.1	7.3	24.0
21-Feb	0.1	0.1	Z	1.3	0.5	0.2	2.0	4.6	9.0	14.8	13.8	12.6	7.9	6.8	2.6	1.0	0.4	0.5	0.1	0.1	0.1	0.2	0.8	1.3	3.5	14.8
22-Feb	1.1	0.5	0.3	Z	2.2	3.6	2.9	3.9	7.8	12.3	17.8	18.9	19.6	21.8	22.2	18.8	14.5	9.9	6.2	10.6	17.9	22.3	20.6	20.4	12.0	22.3
23-Feb	19.3	16.0	12.1	3.2	Z	0.1	0.1	0.3	2.8	4.4	8.3	24.6	C	C	C	C	C	4.9	2.7	2.7	6.8	8.6	10.2	7.8	7.5	24.6
24-Feb	11.6	26.0	33.9	39.9	49.1	Z	75.9	78.2	76.2	66.9	30.5	17.0	12.8	7.6	7.3	7.0	3.6	1.4	0.0	0.0	0.0	3.4	7.3	9.4	24.6	78.2
25-Feb	Z	1.5	1.6	1.6	3.0	1.2	1.5	1.7	4.6	14.6	25.3	8.9	10.6	7.4	8.5	6.0	3.4	6.0	21.8	4.2	0.1	0.1	0.0	0.1	5.8	25.3
26-Feb	0.0	Z	0.1	0.1	0.0	0.0	0.1	0.3	1.1	2.5	1.8	1.6	1.8	1.7	1.3	0.9	0.9	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.7	2.5
27-Feb	0.1	0.0	Z	0.0	0.0	0.0	0.0	0.4	2.4	4.7	3.8	4.8	7.4	7.4	7.9	8.7	7.1	5.3	1.5	0.7	0.4	0.2	0.1	0.0	2.7	8.7
28-Feb	6.4	57.1	85.3	Z	62.7	81.7	100.5	77.8	31.0	24.3	18.5	12.2	13.0	5.5	3.1	2.2	2.4	1.7	0.1	0.0	0.0	0.0	3.7	1.1	25.7	100.5
	6.1	10.1	12.3	10.3	12.6	9.4	11.8	12.8	12.1	14.1	14.6	13.9	11.1	8.8	6.0	5.0	5.1	6.2	5.1	3.7	4.4	3.8	3.3	5.1	Diurnal Average	
	67.7	62.9	85.3	68.8	98.4	81.7	100.5	78.2	76.2	66.9	68.2	69.3	52.2	32.0	22.2	21.6	30.4	87.4	77.7	59.8	51.9	37.3	20.6	59.6	Diurnal Maximum	

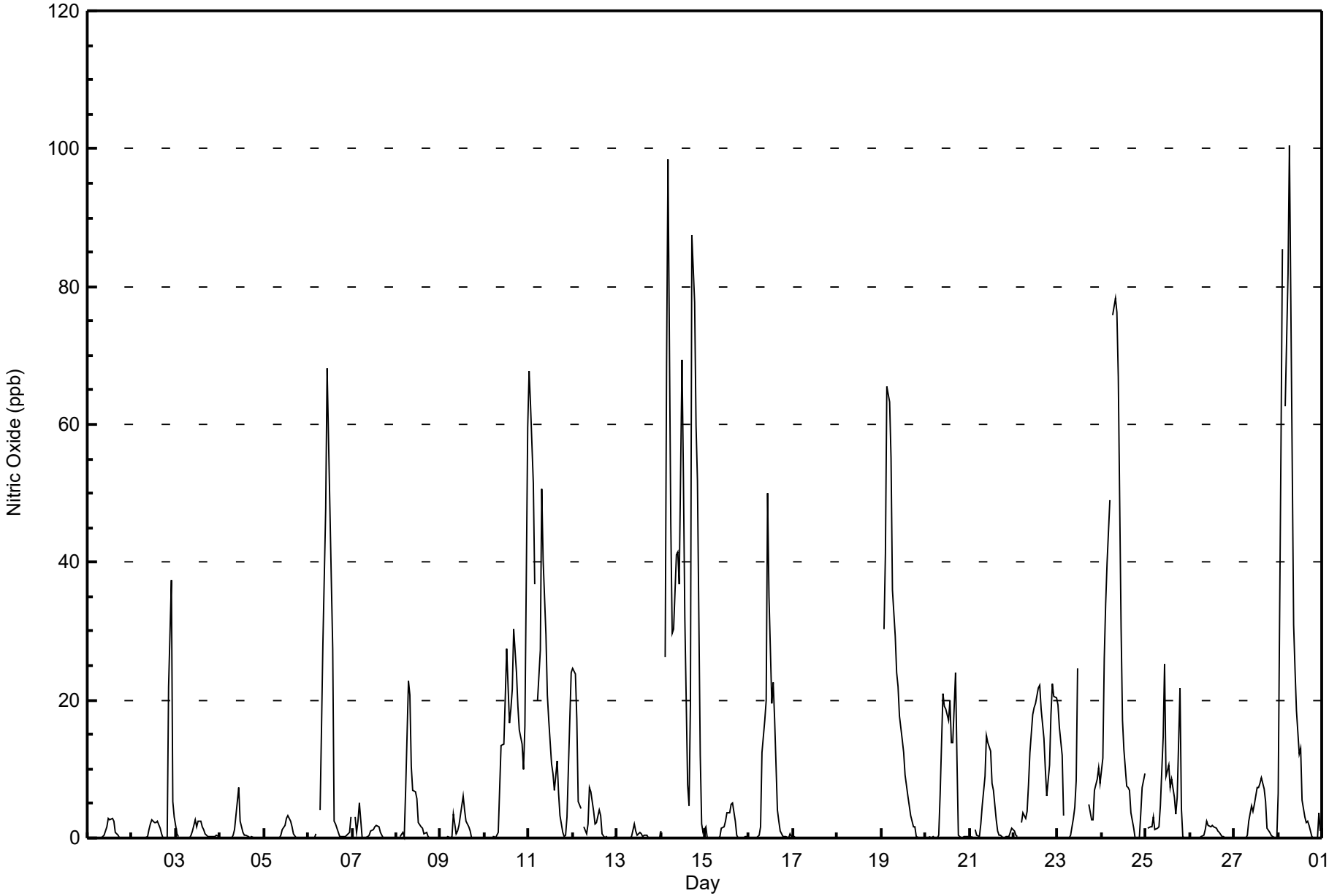
Z - zerospan C - Calibration UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Fort McKay South - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	516	86.43	86.43
21 - 40	46	7.71	94.14
11 - 80	30	5.03	99.16
81 - 159	5	0.84	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 597

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Fort McKay South - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	101	142	17	3	0	4	7	57	56	33	23	18	20	7	10	17	515
21 - 40	2	7	0	2	0	0	2	7	6	7	4	1	2	0	1	5	46
11 - 80	2	5	2	0	0	0	0	1	3	11	4	0	1	0	0	1	30
81 - 159	0	1	0	0	0	0	0	0	1	3	0	0	0	0	0	0	5
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	105	155	19	5	0	4	9	65	66	54	31	19	23	7	11	23	596

Total Number of Valid Hours: 596

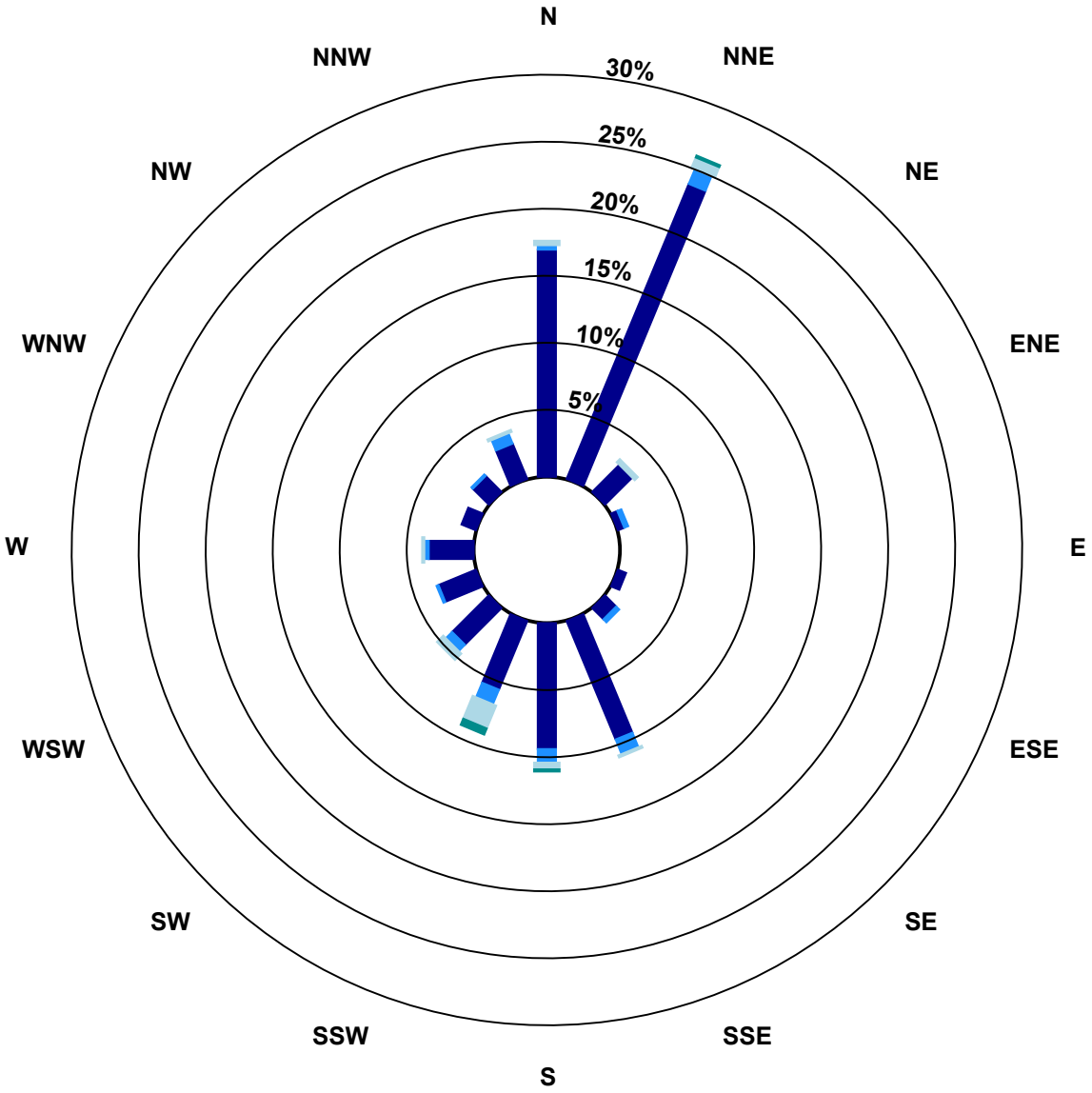
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Fort McKay South



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

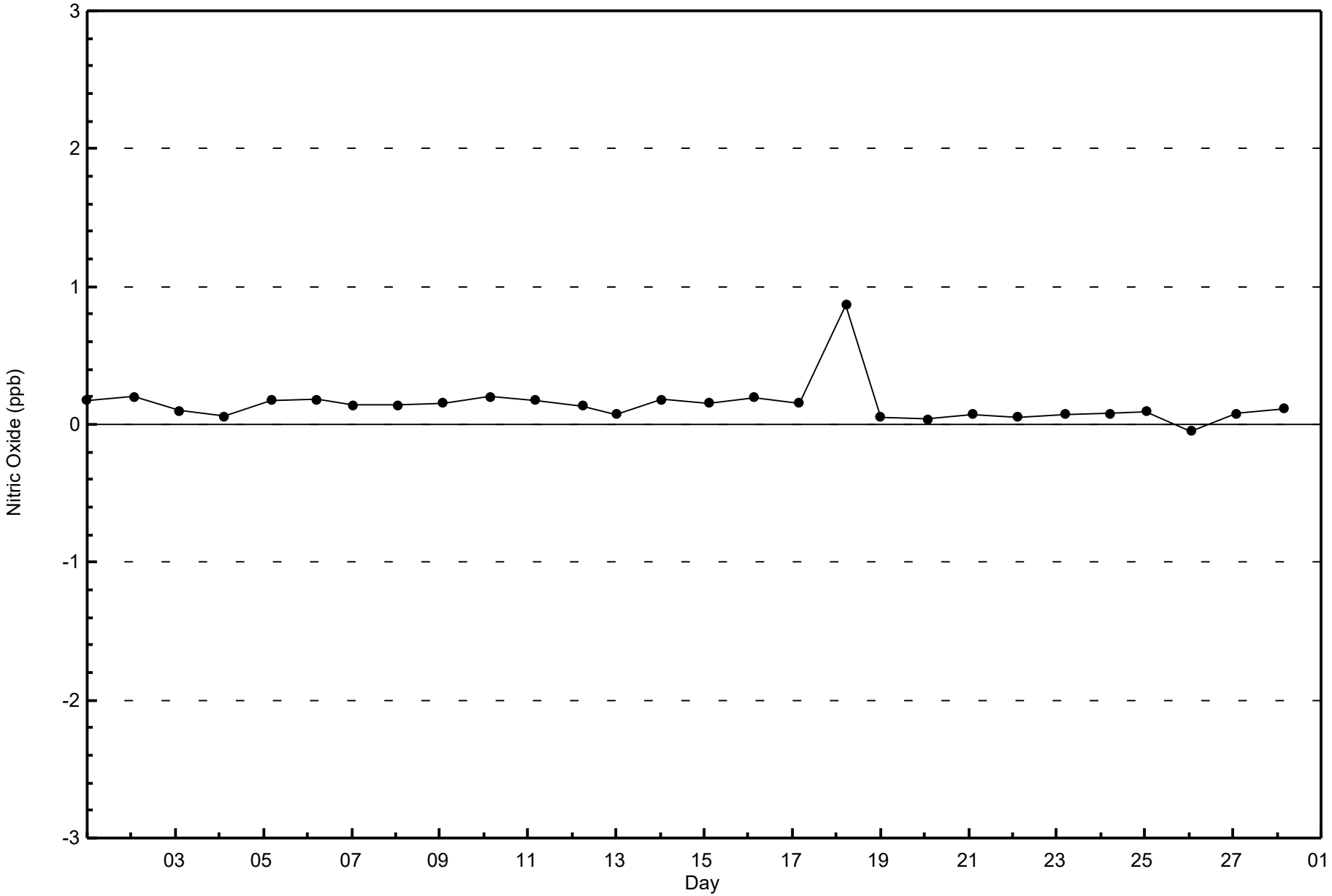
Total Number of Valid Hours: 596

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Fort McKay South - February 2026

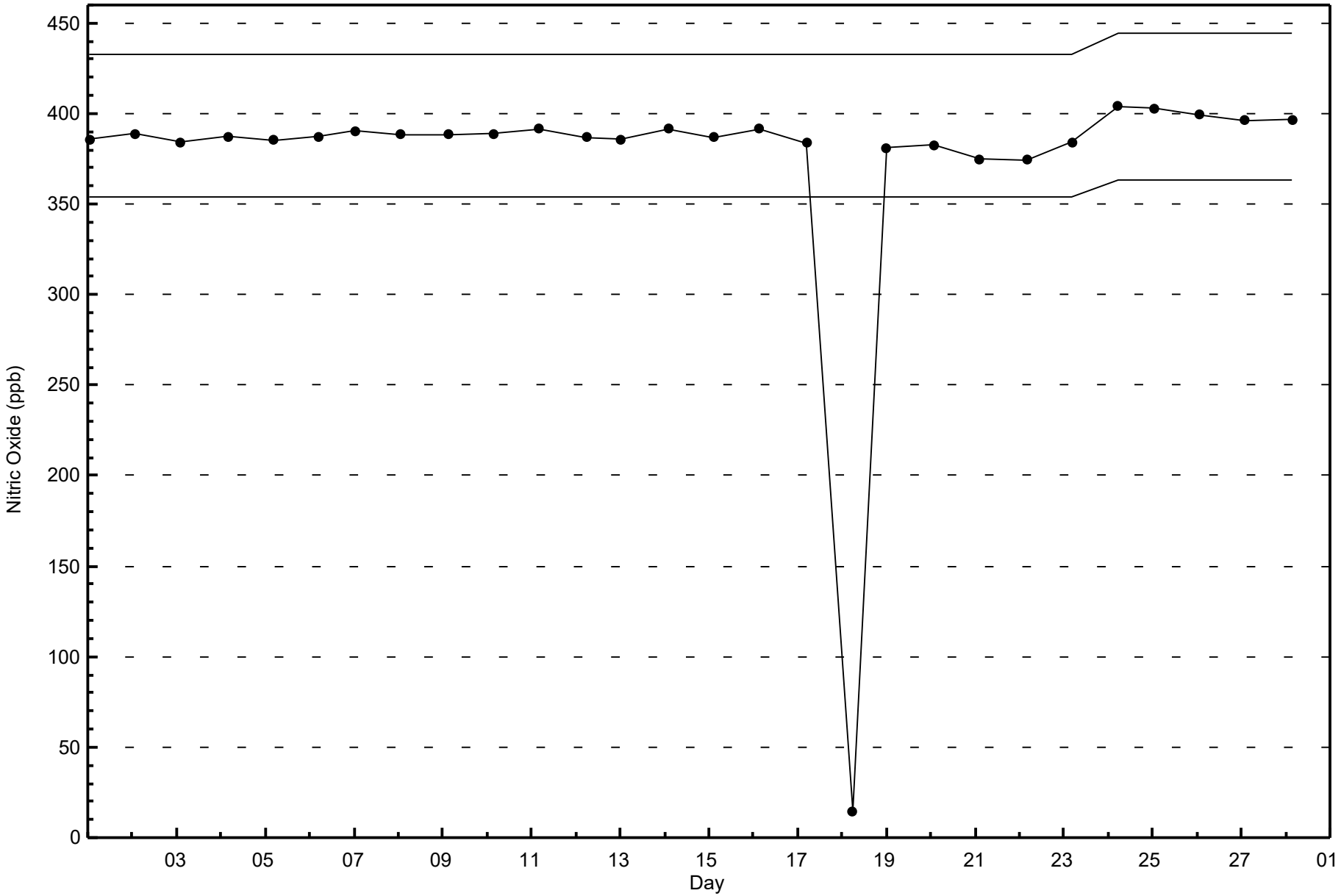


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Fort McKay South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Fort McKay South - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 50.0 ppb on Feb 14 18:00
Maximum Daily Average: 28.6 ppb on Feb 14

Minimum Value: 0.9 ppb on Feb 1 03:00
Maximum Diurnal Average: 16.2 ppb at hour 8
Monthly Average: 13.38 ppb
Minimum Daily Average: 5.5 ppb on Feb 13
Minimum Diurnal Average: 8.7 ppb at hour 15
Percentiles: P_1 = 1.5 P_{10} = 4.6 Q_1 = 7.2 Median = 11.1 Q_3 = 18.5 P_{90} = 25.9 P_{99} = 35.0

Hours in Service:	672
Hours of Data:	597
Hours of Missing Data:	75
Hours of Calibration:	32
Percent Operational Time:	93.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	3.4	0.9	1.0	1.8	3.0	8.8	13.6	11.1	5.0	9.1	10.7	7.7	8.7	8.3	7.8	8.7	5.1	5.4	7.2	9.0	9.6	15.2	9.0	7.4	15.2
2-Feb	1.5	Z	1.8	2.8	8.5	5.6	4.9	6.3	6.8	9.7	8.2	8.4	7.3	6.5	8.4	9.4	8.3	8.1	6.6	7.5	19.6	28.0	26.9	25.5	9.9	28.0
3-Feb	20.7	17.8	Z	9.2	8.7	8.3	10.6	10.7	13.3	9.1	12.4	7.0	7.5	8.3	7.4	9.3	11.6	14.2	16.0	16.7	20.4	19.8	18.2	5.4	12.3	20.7
4-Feb	3.8	4.5	3.4	Z	4.9	9.3	10.0	9.3	6.6	4.6	4.4	5.5	2.1	1.5	1.4	1.4	1.8	11.2	7.8	4.8	4.9	7.9	7.4	8.1	5.5	11.2
5-Feb	8.9	5.9	6.0	4.3	Z	4.7	5.4	2.7	3.6	4.5	6.4	6.2	7.9	8.4	8.6	9.2	8.6	4.3	6.3	11.9	19.6	13.5	17.8	23.4	8.6	23.4
6-Feb	26.0	24.2	26.6	23.6	30.2	Z	33.0	34.0	34.2	34.9	36.8	34.9	30.4	27.5	13.8	14.2	12.6	10.4	8.9	7.5	15.2	20.1	18.7	15.8	23.2	36.8
7-Feb	Z	21.0	18.8	17.1	17.4	13.8	8.2	7.8	5.5	4.5	5.0	4.6	5.4	6.8	7.1	6.5	7.0	8.5	9.8	10.1	7.8	9.9	16.8	18.0	10.3	21.0
8-Feb	22.8	Z	25.2	26.6	18.9	30.2	33.2	32.0	29.0	21.9	19.6	14.9	7.1	5.4	6.1	5.1	9.5	13.1	14.7	12.6	16.1	9.8	8.5	11.3	17.1	33.2
9-Feb	7.6	6.4	Z	13.4	13.8	11.6	13.2	25.7	15.3	7.6	8.1	9.2	12.2	9.5	8.1	9.1	11.2	12.0	11.6	12.3	9.4	8.3	9.3	12.4	11.2	25.7
10-Feb	16.5	21.2	25.9	Z	31.2	31.6	26.7	33.0	32.4	28.0	20.4	23.5	24.6	19.0	19.6	22.4	27.4	27.0	23.0	20.3	19.4	17.9	18.1	20.8	23.9	33.0
11-Feb	21.1	19.5	18.2	16.9	Z	18.4	18.7	21.9	23.7	22.5	18.6	17.0	14.7	14.4	13.1	20.7	18.4	12.2	8.6	7.6	7.7	10.7	23.5	26.5	17.2	26.5
12-Feb	20.9	15.9	6.9	12.3	14.3	Z	16.2	11.8	9.3	12.8	11.1	7.3	4.5	6.0	14.4	17.3	9.4	3.4	9.4	3.1	3.4	6.0	5.0	6.8	9.9	20.9
13-Feb	Z	7.1	6.6	8.0	1.6	3.9	5.6	2.1	3.9	12.1	4.0	1.1	2.3	2.2	1.1	2.3	4.1	4.2	2.8	4.7	7.5	8.5	14.2	15.9	5.5	15.9
14-Feb	19.6	Z	25.0	27.8	29.7	29.5	29.9	27.6	28.0	25.9	23.8	29.2	27.1	22.8	12.7	12.2	27.1	50.0	47.1	39.5	36.5	31.3	27.3	29.2	28.6	50.0
15-Feb	27.8	15.8	Z	9.4	10.7	11.2	4.7	4.1	5.4	8.1	5.5	6.0	5.2	6.1	6.7	9.5	9.0	9.5	8.5	10.8	10.0	10.1	12.7	14.8	9.6	27.8
16-Feb	15.0	14.1	12.2	Z	12.4	13.4	15.8	17.6	15.0	12.4	19.8	18.7	13.1	13.9	11.8	5.2	6.1	7.7	9.3	11.1	8.0	8.8	12.4	9.9	12.3	19.8
17-Feb	10.8	6.2	7.1	5.7	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	10.8
18-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
19-Feb	Z	9.6	10.2	12.1	11.7	10.9	11.0	9.7	8.8	6.8	5.1	4.6	4.5	4.2	4.4	5.5	8.1	15.1	22.1	16.6	11.9	8.4	10.4	15.2	9.9	22.1
20-Feb	13.6	Z	20.8	20.8	21.4	20.8	18.2	17.3	15.3	19.5	18.0	17.3	14.9	17.4	16.1	19.5	32.2	32.9	18.4	9.5	9.5	16.9	17.5	17.6	18.5	32.9
21-Feb	15.6	16.4	Z	19.7	17.6	17.1	19.9	21.5	19.0	16.3	13.3	12.2	8.7	8.4	5.1	3.2	2.4	8.9	11.9	6.9	7.1	6.9	9.8	10.0	12.1	21.5
22-Feb	9.1	7.6	6.6	Z	8.3	7.9	6.9	6.9	5.8	5.6	7.1	7.7	7.8	9.3	10.4	11.8	13.2	15.3	17.2	18.6	19.7	20.3	19.0	19.7	11.4	20.3
23-Feb	20.3	21.1	20.8	18.5	Z	11.2	8.2	8.6	9.9	10.5	9.4	16.8	C	C	C	C	C	21.4	22.9	23.8	25.3	24.8	25.4	25.0	18.0	25.4
24-Feb	24.1	25.8	26.4	29.2	29.9	Z	32.6	33.4	30.1	29.0	16.6	11.0	9.5	7.1	7.6	9.1	9.2	14.5	16.8	14.8	15.9	24.7	27.6	27.3	20.5	33.4
25-Feb	Z	23.4	21.1	18.5	16.6	16.8	15.6	12.8	8.7	15.9	20.3	10.3	11.9	12.9	13.8	13.6	14.9	24.4	38.7	33.2	13.2	11.8	11.1	10.8	17.0	38.7
26-Feb	9.7	Z	7.5	7.8	8.4	12.5	20.0	16.6	12.3	12.8	8.3	6.7	4.8	4.0	3.4	4.1	5.5	2.0	3.6	1.9	2.6	6.5	7.4	6.5	7.6	20.0
27-Feb	5.6	7.3	Z	5.4	4.6	5.1	6.9	7.3	6.4	5.1	2.8	3.0	4.0	4.2	5.0	6.2	7.1	11.0	12.9	13.5	13.4	12.9	11.6	10.4	7.5	13.5
28-Feb	12.3	21.3	26.8	Z	23.5	25.4	27.5	26.6	19.1	15.9	10.7	7.6	8.8	5.7	4.2	4.0	6.9	14.1	12.2	9.1	9.7	9.4	22.3	23.5	15.1	27.5
	15.2	14.3	14.8	14.1	15.0	14.0	15.8	16.2	14.6	13.9	12.5	11.6	10.2	9.6	8.7	9.5	11.2	13.9	14.3	12.9	13.2	14.0	15.9	16.1	Diurnal Average	
	27.8	25.8	26.8	29.2	31.2	31.6	33.2	34.0	34.2	34.9	36.8	34.9	30.4	27.5	19.6	22.4	32.2	50.0	47.1	39.5	36.5	31.3	27.6	29.2	Diurnal Maximum	

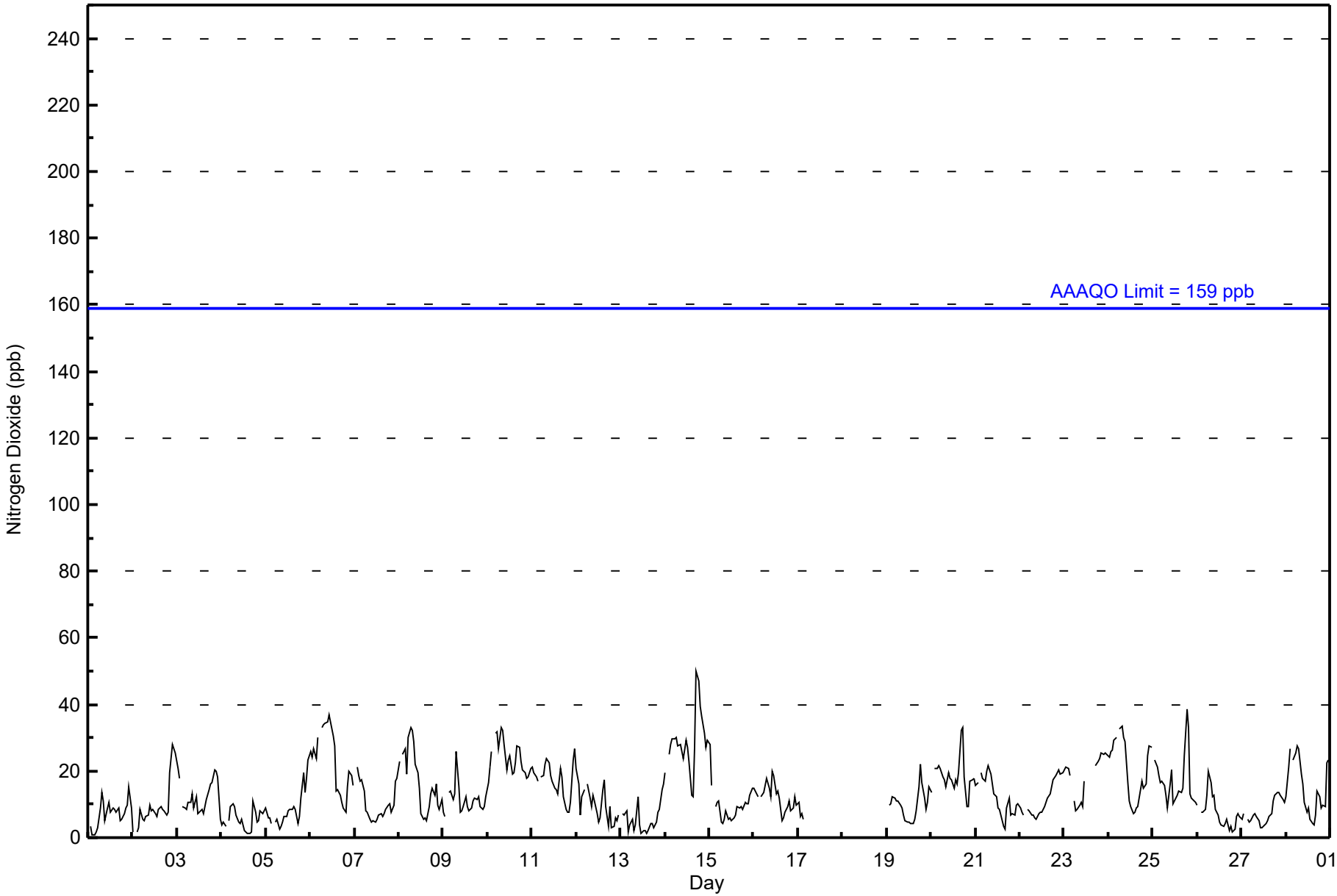
Z - zerospan C - Calibration UO - Unstable Operation
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Fort McKay South - February 2026



Nitrogen Dioxide (NO_2) - ppb
Fort McKay South - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	483	80.90	80.90
21 - 40	112	18.76	99.67
11 - 80	2	0.34	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 597

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Fort McKay South - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	81	134	18	3	0	4	7	63	54	34	25	17	17	5	8	13	483
21 - 40	23	20	1	2	0	0	2	2	12	20	6	2	6	2	3	10	111
11 - 80	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	105	155	19	5	0	4	9	65	66	54	31	19	23	7	11	23	596

Total Number of Valid Hours: 596

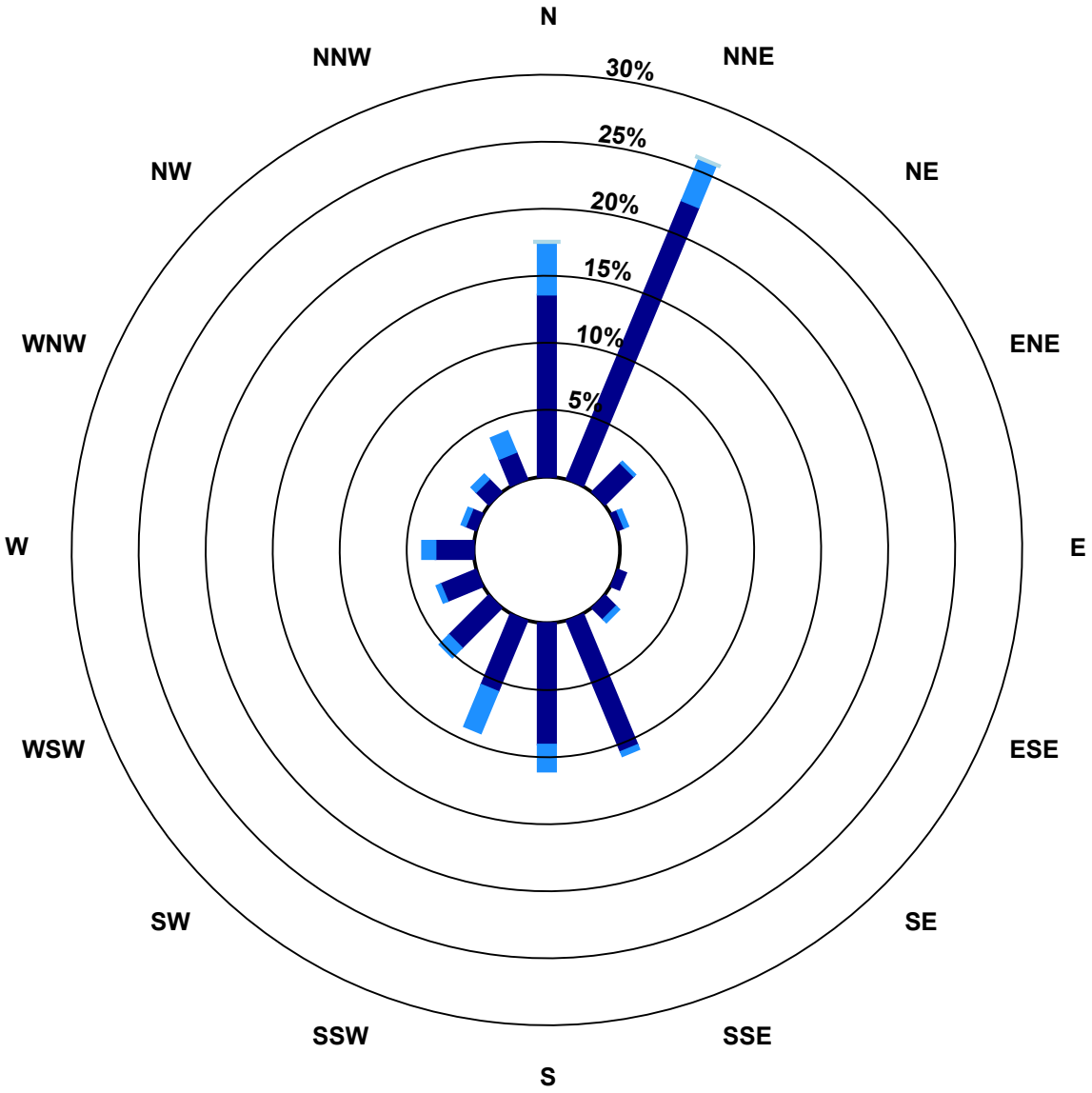
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Fort McKay South



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

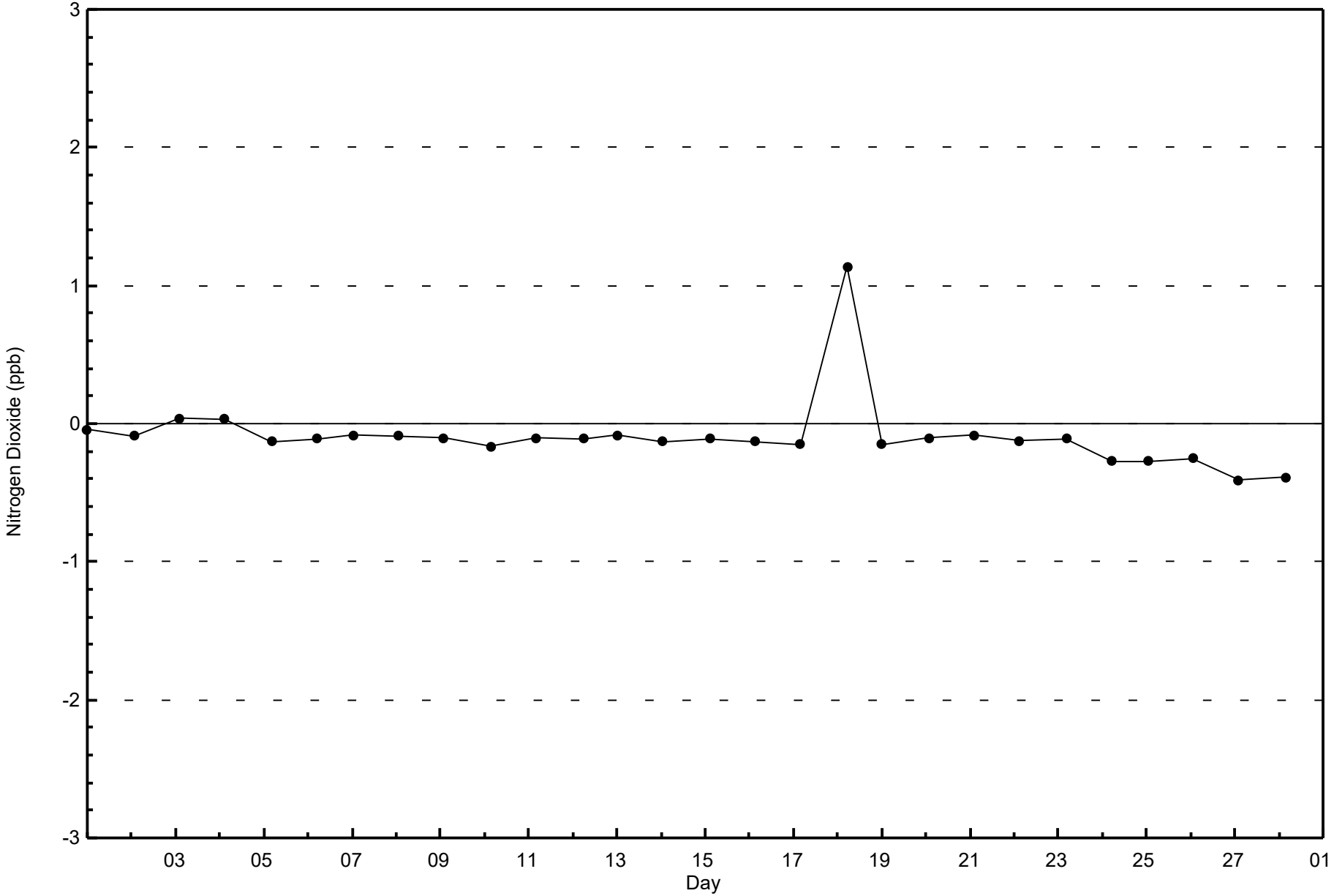
Total Number of Valid Hours: 596

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Fort McKay South - February 2026

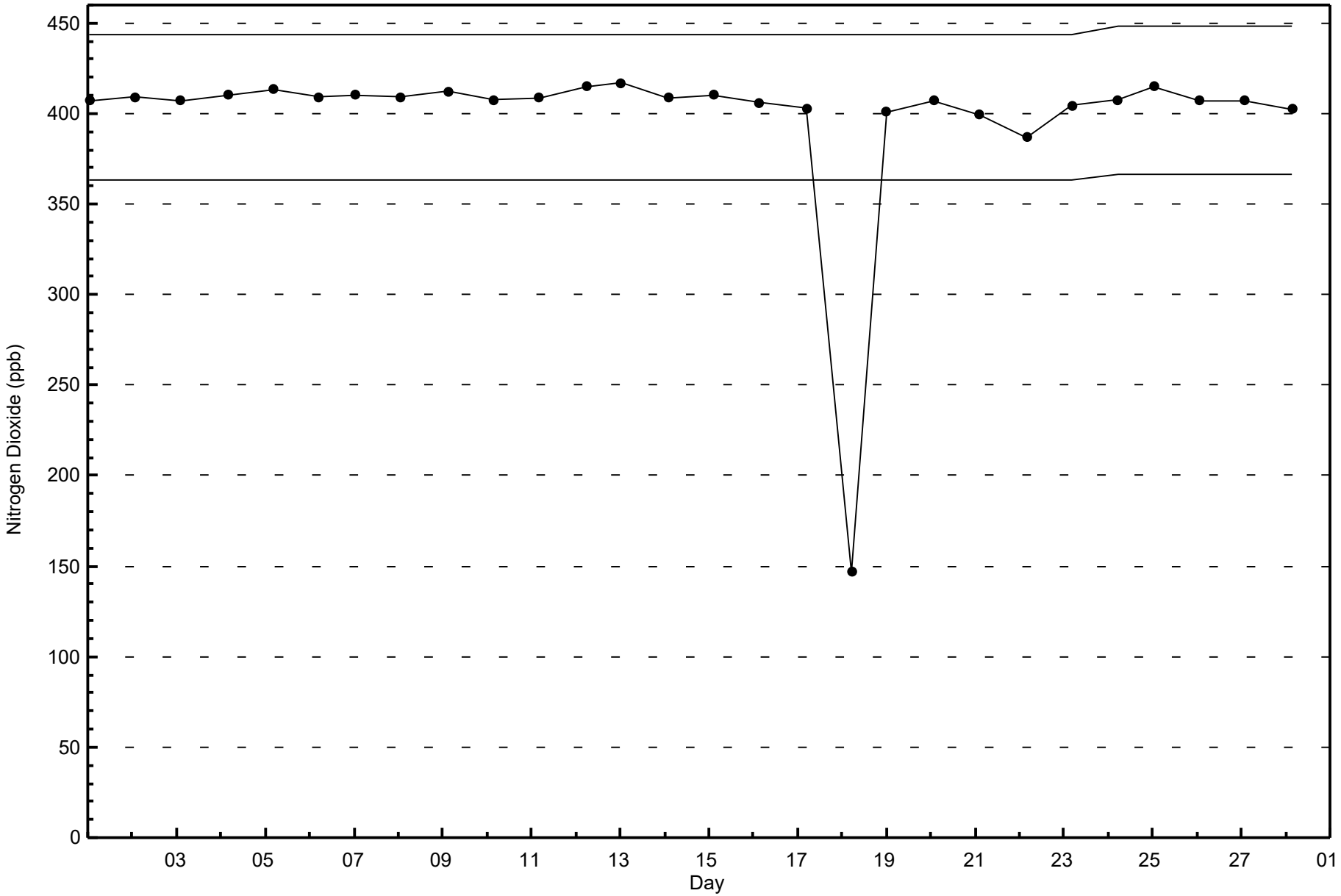


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Fort McKay South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Fort McKay South - February 2026

Maximum Value: 137.4 ppb on Feb 14 18:00

Maximum Daily Average: 67.6 ppb on Feb 14

Minimum Value: 0.9 ppb on Feb 1 03:00

Minimum Daily Average: 5.7 ppb on Feb 13

Maximum Diurnal Average: 29.0 ppb at hour 8

Minimum Diurnal Average: 14.5 ppb at hour 16

Monthly Average: 21.98 ppb

Percentiles: P_1 = 1.7 P_{10} = 5.4 Q_1 = 8.6 Median = 13.7 Q_3 = 27.3 P_{90} = 50.0 P_{99} = 108.6

Hours in Service:	672
Hours of Data:	597
Hours of Missing Data:	75
Hours of Calibration:	32
Percent Operational Time:	93.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	3.4	0.9	1.0	1.8	3.0	8.9	13.7	11.3	5.3	10.7	13.5	10.3	11.6	10.7	8.7	9.1	5.1	5.4	7.2	9.0	9.6	15.2	9.0	8.0	15.2
2-Feb	1.5	Z	1.8	2.8	8.5	5.6	4.9	6.3	7.0	10.9	10.2	11.1	9.5	8.8	10.9	10.9	8.9	8.1	6.6	7.5	41.7	65.3	32.3	28.6	13.5	65.3
3-Feb	21.4	17.9	Z	9.2	8.7	8.3	10.7	10.8	13.7	10.0	15.1	8.6	9.9	10.7	9.0	10.6	12.2	14.4	16.1	16.9	20.6	20.0	18.5	5.5	13.0	21.4
4-Feb	3.9	4.6	3.4	Z	4.9	9.4	10.0	9.7	7.8	9.9	11.6	8.0	2.9	2.0	1.7	1.7	1.9	11.4	7.8	4.8	4.9	7.9	7.4	8.1	6.3	11.6
5-Feb	8.9	5.9	6.0	4.3	Z	4.7	5.4	2.7	3.6	4.9	7.6	8.0	10.8	11.6	11.0	10.8	9.2	4.3	6.3	11.9	19.6	13.5	17.8	23.4	9.2	23.4
6-Feb	26.1	24.2	26.6	23.6	30.9	Z	37.1	49.9	62.5	82.6	105.0	93.0	67.9	54.9	16.2	16.3	13.5	10.6	9.0	7.8	15.3	20.4	19.5	18.8	36.2	105.0
7-Feb	Z	24.0	19.6	19.5	22.4	13.8	8.2	7.8	5.6	5.0	5.9	5.9	7.0	8.5	8.7	7.2	7.3	8.6	9.8	10.1	7.8	9.9	16.8	18.0	11.2	24.0
8-Feb	22.9	Z	25.5	27.3	19.0	37.3	56.0	52.7	39.4	28.8	26.3	20.5	9.4	6.9	7.5	5.8	10.2	13.3	14.7	12.6	16.1	9.8	8.5	11.3	21.0	56.0
9-Feb	7.7	6.4	Z	13.4	13.9	11.7	13.3	29.2	15.9	8.7	10.0	12.5	18.3	13.6	10.4	10.7	12.1	12.1	11.6	12.3	9.4	8.3	9.3	12.4	12.3	29.2
10-Feb	16.5	21.2	25.9	Z	31.5	31.9	26.8	33.8	39.4	41.5	34.0	43.9	52.0	35.6	38.3	44.0	57.8	50.9	42.0	36.0	32.9	27.8	34.3	80.4	38.2	80.4
11-Feb	88.8	82.4	69.7	53.7	Z	38.3	45.9	72.5	64.0	52.0	39.3	34.0	25.4	23.7	20.0	31.9	25.0	15.5	9.5	7.8	8.1	13.8	40.7	50.4	39.7	88.8
12-Feb	45.4	39.8	24.2	17.5	18.6	Z	17.8	12.5	11.3	20.1	17.9	11.1	6.6	8.2	18.4	20.6	10.0	3.5	9.5	3.1	3.5	6.0	5.1	6.9	14.7	45.4
13-Feb	Z	7.2	6.7	8.0	1.6	4.0	5.6	2.1	4.2	14.0	5.0	1.5	3.1	2.9	1.4	2.7	4.4	4.3	2.8	4.7	7.5	8.5	14.2	16.0	5.7	16.0
14-Feb	20.6	Z	51.2	96.6	128.1	75.0	59.7	58.0	69.2	67.3	60.6	98.5	79.3	54.8	20.5	16.8	46.7	137.4	124.8	99.3	88.4	43.2	29.4	29.9	67.6	137.4
15-Feb	29.4	15.8	Z	9.4	10.7	11.2	4.7	4.1	5.7	9.6	7.1	8.4	8.9	9.8	11.7	14.7	11.4	9.9	8.5	10.9	10.0	10.1	12.9	14.9	10.9	29.4
16-Feb	15.1	14.2	12.3	Z	12.5	13.7	17.4	30.0	32.1	32.3	69.9	53.6	32.7	36.6	29.1	9.2	8.6	8.6	9.5	11.4	8.1	8.9	13.0	10.1	21.3	69.9
17-Feb	11.0	6.2	7.2	5.7	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	11.0
18-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
19-Feb	Z	40.0	51.4	77.7	74.9	66.0	47.0	39.0	32.8	28.8	22.7	18.8	17.0	13.4	10.6	10.3	11.3	16.8	23.7	16.8	11.9	8.4	10.4	15.2	28.9	77.7
20-Feb	13.6	Z	20.9	20.9	21.6	20.9	18.2	17.8	21.6	40.4	37.1	35.9	31.9	37.2	29.9	33.4	56.2	44.4	18.9	9.5	9.5	17.0	17.6	17.7	25.7	56.2
21-Feb	15.7	16.5	Z	21.0	18.1	17.3	21.9	26.1	28.0	31.1	27.1	24.8	16.6	15.2	7.7	4.2	2.8	9.4	12.0	7.0	7.2	7.1	10.6	11.3	15.6	31.1
22-Feb	10.2	8.1	6.9	Z	10.5	11.5	9.8	10.8	13.6	17.9	24.9	26.6	27.4	31.1	32.6	30.6	27.7	25.2	23.4	29.2	37.6	42.6	39.6	40.1	23.4	42.6
23-Feb	39.6	37.1	32.9	21.7	Z	11.3	8.3	8.9	12.7	14.9	17.7	41.4	C	C	C	C	C	26.3	25.6	26.5	32.1	33.4	35.6	32.8	25.5	41.4
24-Feb	35.7	51.8	60.3	69.1	79.0	Z	108.5	111.6	106.3	95.9	47.1	28.0	22.3	14.7	14.9	16.1	12.8	15.9	16.8	14.8	15.9	28.1	34.9	36.7	45.1	111.6
25-Feb	Z	24.9	22.7	20.1	19.6	18.0	17.1	14.5	13.3	30.5	45.6	19.2	22.5	20.3	22.3	19.6	18.3	30.4	60.5	37.4	13.3	11.9	11.1	10.9	22.8	60.5
26-Feb	9.7	Z	7.6	7.9	8.4	12.5	20.1	16.9	13.4	15.3	10.1	8.3	6.6	5.7	4.7	5.0	6.4	2.2	3.7	2.0	2.7	6.6	7.5	6.5	8.3	20.1
27-Feb	5.7	7.3	Z	5.4	4.6	5.1	6.9	7.7	8.8	9.8	6.6	7.8	11.4	11.6	12.9	14.9	14.2	16.3	14.4	14.2	13.8	13.1	11.7	10.4	10.2	16.3
28-Feb	18.7	78.4	112.1	Z	86.2	107.1	128.0	104.4	50.1	40.2	29.2	19.8	21.8	11.2	7.3	6.2	9.3	15.8	12.3	9.1	9.7	9.4	26.0	24.6	40.7	128.0
	21.3	24.4	27.1	24.4	27.7	23.4	27.6	29.0	26.7	28.0	27.1	25.5	21.3	18.4	14.7	14.5	16.3	20.0	19.4	16.6	17.6	17.7	19.2	21.2	Diurnal Average	
	88.8	82.4	112.1	96.6	128.1	107.1	128.0	111.6	106.3	95.9	105.0	98.5	79.3	54.9	38.3	44.0	57.8	137.4	124.8	99.3	88.4	65.3	40.7	80.4	Diurnal Maximum	

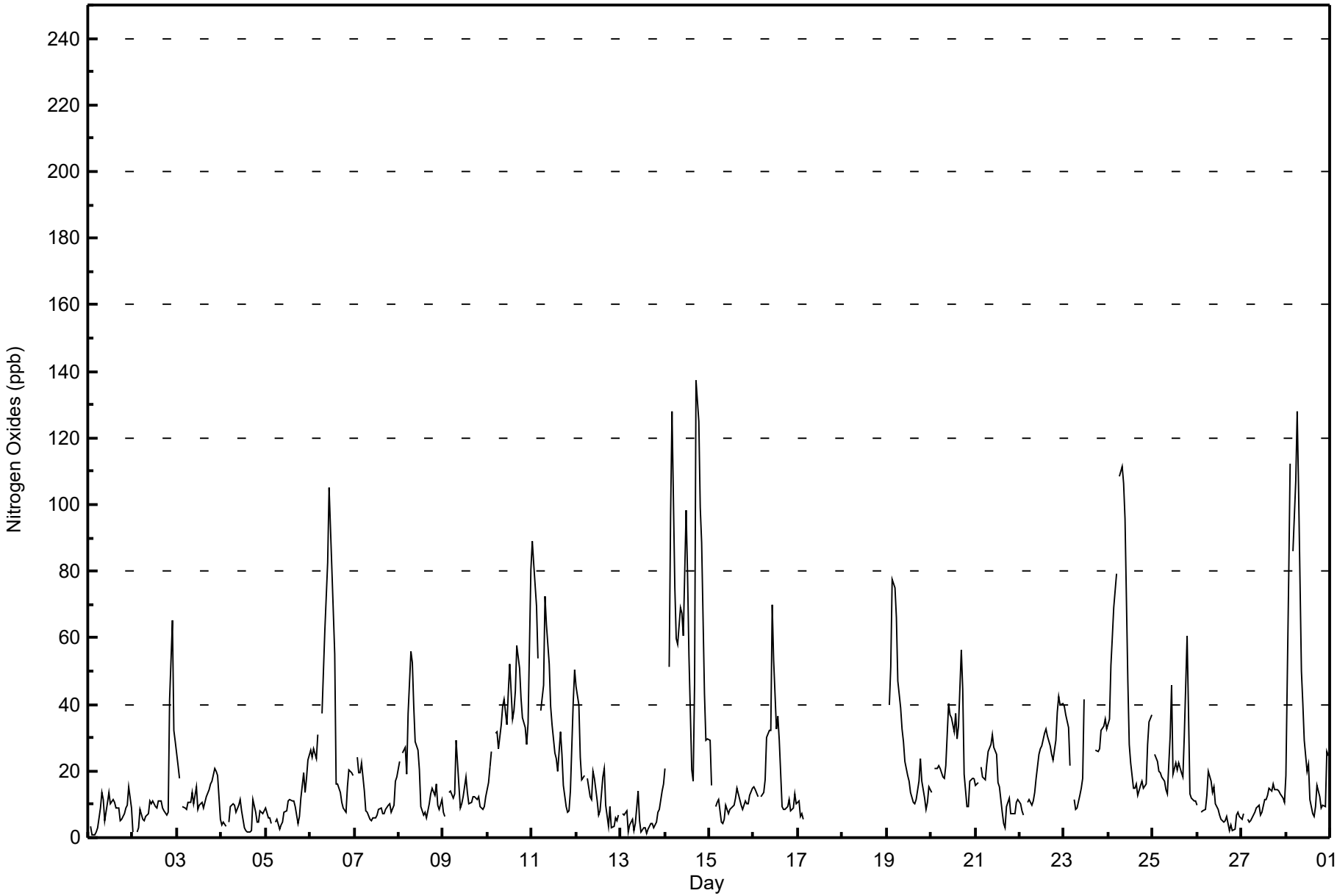
Z - zerospan C - Calibration UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Fort McKay South - February 2026



Nitrogen Oxides (NO_X) - ppb
Fort McKay South - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	396	66.33	66.33
21 - 40	124	20.77	87.10
11 - 80	56	9.38	96.48
81 - 159	21	3.52	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 597

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Fort McKay South - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	69	121	15	2	0	4	1	47	46	22	22	14	15	3	8	7	396
21 - 40	31	21	2	1	0	0	6	14	11	11	1	4	5	4	2	10	123
11 - 80	3	8	2	2	0	0	2	3	6	13	7	1	3	0	1	5	56
81 - 159	2	5	0	0	0	0	0	1	3	8	1	0	0	0	0	1	21
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	105	155	19	5	0	4	9	65	66	54	31	19	23	7	11	23	596

Total Number of Valid Hours: 596

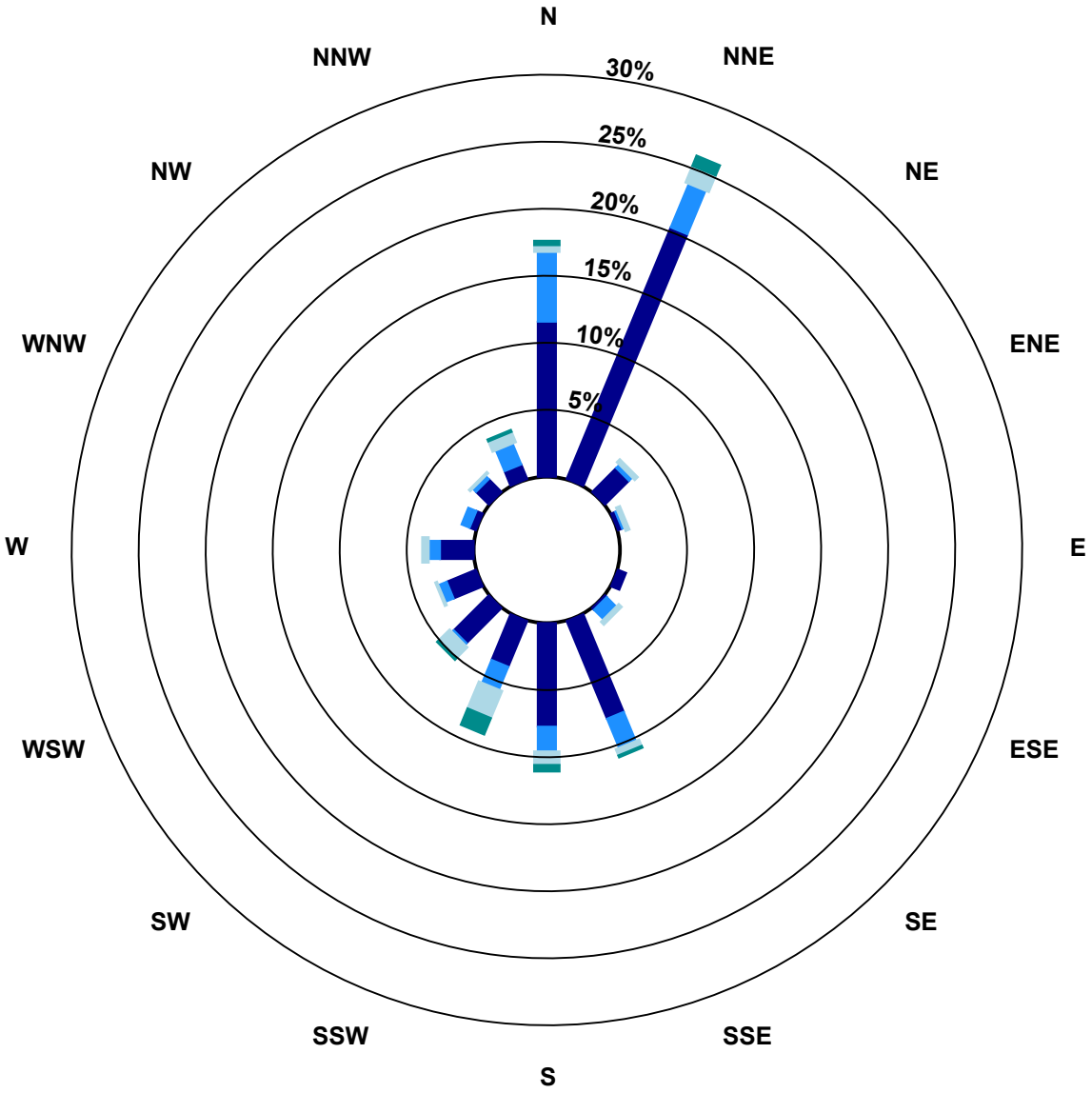
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Fort McKay South



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

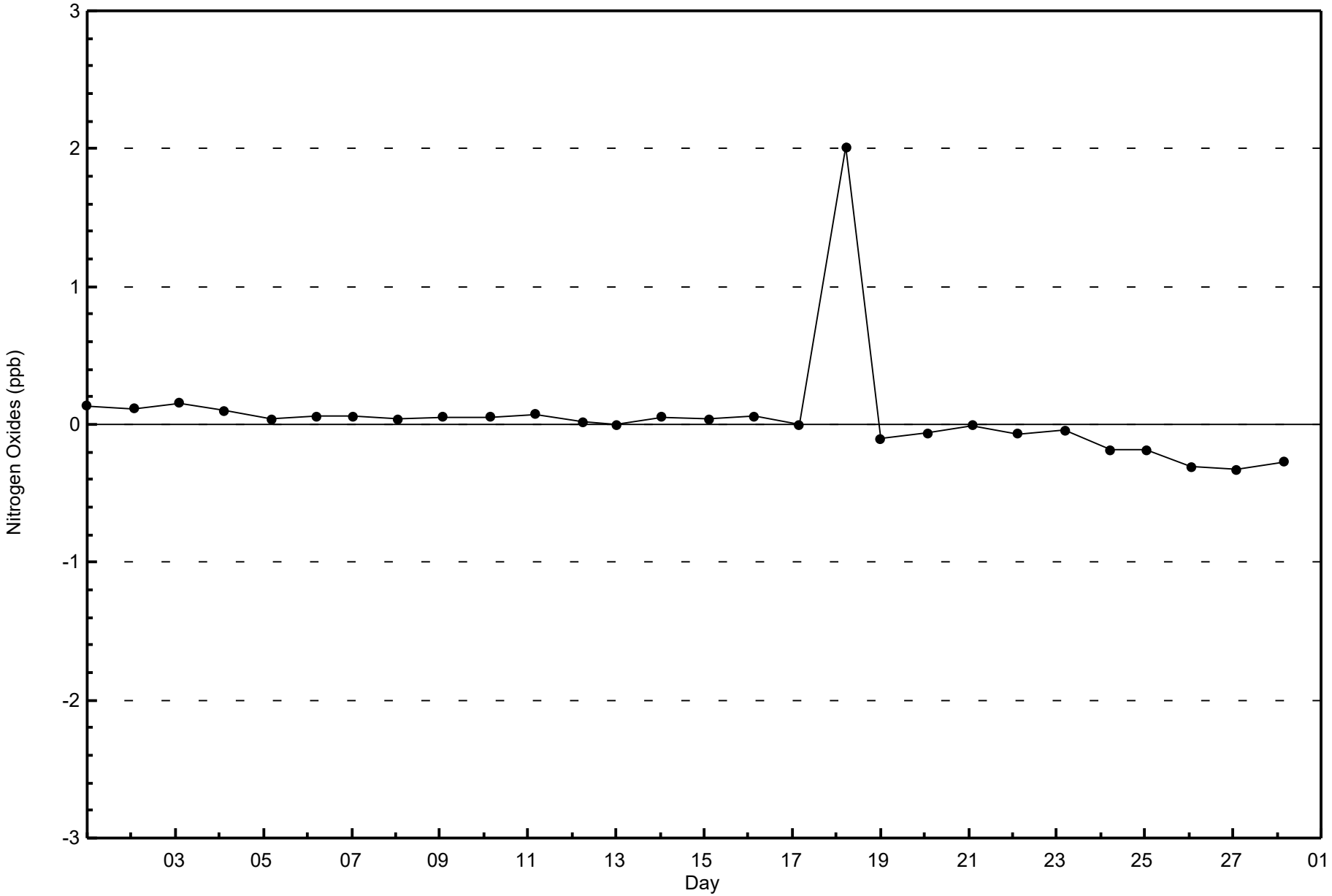
Total Number of Valid Hours: 596

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Fort McKay South - February 2026

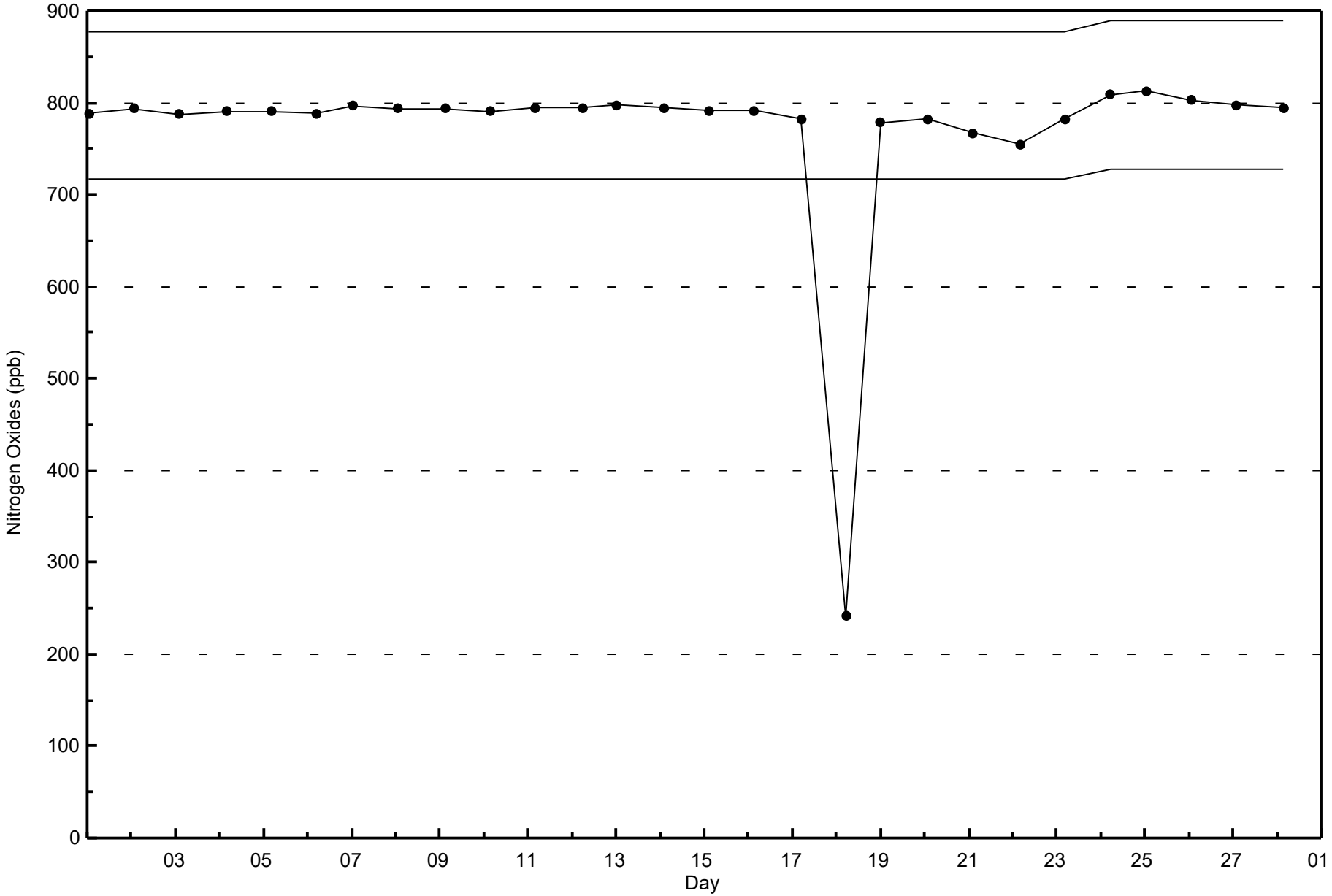


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Fort McKay South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort McKay South - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 24.6 $\mu g/m^3$ on Feb 28 10:00

Maximum Daily Average: 8.1 $\mu g/m^3$ on Feb 14

Minimum Value: 1.2 $\mu g/m^3$ on Feb 12 18:00

Minimum Daily Average: 2.4 $\mu g/m^3$ on Feb 13

Maximum Diurnal Average: 6.0 $\mu g/m^3$ at hour 11

Minimum Diurnal Average: 4.2 $\mu g/m^3$ at hour 3

Monthly Average: 4.69 $\mu g/m^3$

Percentiles: P_1 = 1.5 P_{10} = 2.6 Q_1 = 3.1 Median = 4.1 Q_3 = 5.6 P_{90} = 7.4 P_{99} = 12.9

Hours in Service:	672
Hours of Data:	643
Hours of Missing Data:	29
Hours of Calibration:	2
Percent Operational Time:	96.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.8	2.7	2.4	2.3	2.2	2.1	2.9	4.0	4.0	3.3	3.9	3.7	3.0	3.0	3.1	3.7	3.8	2.9	2.6	3.2	3.1	3.7	3.8	2.7	3.1	4.0
2-Feb	2.2	2.1	2.2	2.3	2.7	2.9	2.7	2.9	3.5	3.7	3.7	4.5	4.8	5.1	6.0	5.9	5.9	5.6	5.4	6.5	6.7	7.6	7.9	7.6	4.6	7.9
3-Feb	7.7	7.4	5.7	5.1	4.9	4.8	5.2	4.4	3.7	3.3	3.7	3.2	3.5	3.7	3.9	4.1	4.2	4.3	4.5	4.6	5.3	5.6	6.0	6.7	4.8	7.7
4-Feb	5.6	5.0	5.2	5.5	7.0	6.9	9.9	9.6	8.5	7.2	5.7	2.7	2.1	1.8	1.6	1.4	1.3	3.1	4.2	4.4	4.7	5.1	4.8	4.0	4.9	9.9
5-Feb	3.6	3.2	2.8	2.4	2.3	2.3	2.3	2.3	2.0	2.0	2.3	2.2	2.5	2.7	2.7	2.5	2.5	2.2	2.3	2.8	2.9	2.8	2.9	3.4	2.6	3.6
6-Feb	3.7	4.0	4.3	4.6	4.8	4.6	4.6	4.8	5.2	5.9	6.3	6.3	5.4	5.5	3.8	3.7	3.7	3.5	3.2	3.2	4.4	5.0	4.8	4.5	4.6	6.3
7-Feb	4.8	5.3	5.1	5.0	5.3	3.4	2.9	3.2	3.6	3.4	3.5	3.1	2.8	2.8	2.8	3.1	3.3	3.2	3.2	3.4	3.6	3.6	3.8	3.7	3.7	5.3
8-Feb	3.5	3.5	3.5	3.7	3.6	4.0	4.7	5.4	5.3	4.7	3.7	3.5	3.4	3.1	3.0	3.3	3.5	3.9	4.1	3.8	3.7	3.9	4.1	4.2	3.9	5.4
9-Feb	3.8	3.6	3.5	4.7	5.0	4.4	4.2	4.9	6.0	5.7	5.7	4.5	4.4	3.9	3.2	3.1	3.0	2.9	2.9	2.9	2.8	2.8	2.8	2.9	3.9	6.0
10-Feb	3.0	3.4	3.5	3.6	4.3	5.2	6.0	6.6	6.9	7.6	11.0	12.9	15.8	11.7	11.0	9.8	10.3	8.9	7.4	6.9	6.6	6.4	6.8	7.4	7.6	15.8
11-Feb	7.4	7.2	7.3	7.6	7.7	8.2	7.5	7.4	7.6	9.7	10.3	10.6	7.8	6.3	4.2	3.0	2.4	2.0	1.7	1.7	2.0	2.2	4.0	4.5	5.8	10.6
12-Feb	4.5	4.3	3.4	2.8	3.1	2.6	2.7	2.6	2.5	3.3	4.1	2.9	1.9	1.5	2.5	2.8	1.8	1.2	1.6	1.7	1.3	1.7	1.7	1.4	2.5	4.5
13-Feb	1.4	1.8	2.0	2.4	2.4	2.6	2.8	2.6	2.8	3.4	2.9	2.7	2.6	2.6	2.4	2.4	2.4	2.2	2.0	2.0	2.5	2.4	2.6	2.7	2.4	3.4
14-Feb	3.0	3.9	4.4	5.6	6.0	5.3	5.1	5.3	5.1	6.4	9.0	9.7	8.6	9.0	6.8	6.8	8.6	16.6	15.9	14.8	12.8	9.4	8.3	8.0	8.1	16.6
15-Feb	7.7	6.5	5.5	5.4	5.4	4.8	4.3	4.2	4.5	4.2	4.3	4.5	4.3	5.4	6.4	7.7	7.2	5.9	6.3	7.7	7.3	7.6	7.7	7.6	5.9	7.7
16-Feb	7.4	6.1	4.8	4.8	5.6	4.9	5.1	5.1	5.4	9.8	18.0	11.5	7.5	7.3	8.1	6.2	5.7	6.1	6.4	6.4	6.1	6.5	6.3	6.5	7.0	18.0
17-Feb	7.7	7.6	5.2	4.4	4.8	4.8	4.8	5.0	4.7	4.8	5.6	6.7	4.6	4.6	5.9	6.2	7.1	7.0	5.5	5.0	5.0	4.3	4.2	3.9	5.4	7.7
18-Feb	4.3	4.0	4.0	4.1	3.7	3.6	3.6	3.8	3.4	3.6	3.5	3.4	3.1	2.9	2.8	2.7	2.7	2.8	2.7	2.6	2.2	1.9	1.7	1.8	3.1	4.3
19-Feb	3.9	5.3	4.7	5.0	5.6	5.0	4.8	4.3	5.6	6.8	5.3	5.2	4.1	4.1	3.7	3.3	3.9	3.9	3.3	3.0	3.0	2.7	2.7	3.0	4.2	6.8
20-Feb	2.9	3.3	3.9	4.1	4.3	4.6	4.2	4.1	5.2	7.1	9.1	12.6	12.1	10.8	6.5	8.5	11.2	8.3	4.4	5.4	4.5	4.5	4.3	4.1	6.3	12.6
21-Feb	3.8	3.8	3.9	3.9	3.9	4.1	4.0	4.0	4.2	4.7	4.4	4.0	4.0	4.1	3.8	3.5	3.2	4.4	4.5	4.6	4.6	5.1	4.5	4.6	4.1	5.1
22-Feb	4.7	4.0	3.7	3.8	3.9	4.0	4.0	4.3	4.2	4.3	4.3	4.7	5.3	5.8	5.3	4.9	5.0	4.5	4.0	4.3	4.6	4.5	4.1	4.0	4.4	5.8
23-Feb	3.9	3.8	3.4	3.0	3.1	3.2	3.0	2.8	2.9	3.4	3.1	3.5	3.4	3.3	3.8	3.7	3.1	4.0	3.7	3.5	3.8	3.9	3.9	3.8	3.5	4.0
24-Feb	4.1	4.8	5.3	6.6	7.0	7.6	7.6	7.4	7.1	7.3	7.0	9.3	8.9	7.4	6.9	6.6	6.7	6.4	5.9	5.3	5.5	6.3	6.0	5.6	6.6	9.3
25-Feb	5.6	5.6	5.4	5.3	4.4	4.9	4.4	4.2	4.7	6.8	9.8	C	C	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	9.8
26-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	3.7	3.2	3.0	3.2	2.8	3.0	2.9	2.9	--	3.7
27-Feb	3.1	3.1	3.2	2.7	2.6	2.7	3.2	2.9	3.2	2.9	2.9	3.2	3.4	3.5	3.3	3.4	3.6	3.8	3.2	2.9	2.7	2.7	2.6	2.5	3.1	3.8
28-Feb	2.6	4.9	5.8	5.1	4.6	5.4	5.9	6.5	6.2	24.6	8.2	6.6	4.6	4.5	4.1	3.5	3.8	4.1	4.7	5.4	4.0	4.1	5.7	6.1	5.9	24.6
	4.4	4.4	4.2	4.3	4.4	4.4	4.5	4.6	4.7	5.9	6.0	5.7	5.1	4.9	4.5	4.4	4.6	4.7	4.4	4.5	4.4	4.4	4.5	4.5	Diurnal Average	
	7.7	7.6	7.3	7.6	7.7	8.2	9.9	9.6	8.5	24.6	18.0	12.9	15.8	11.7	11.0	9.8	11.2	16.6	15.9	14.8	12.8	9.4	8.3	8.0	Diurnal Maximum	

C - Calibration UO - Unstable Operation

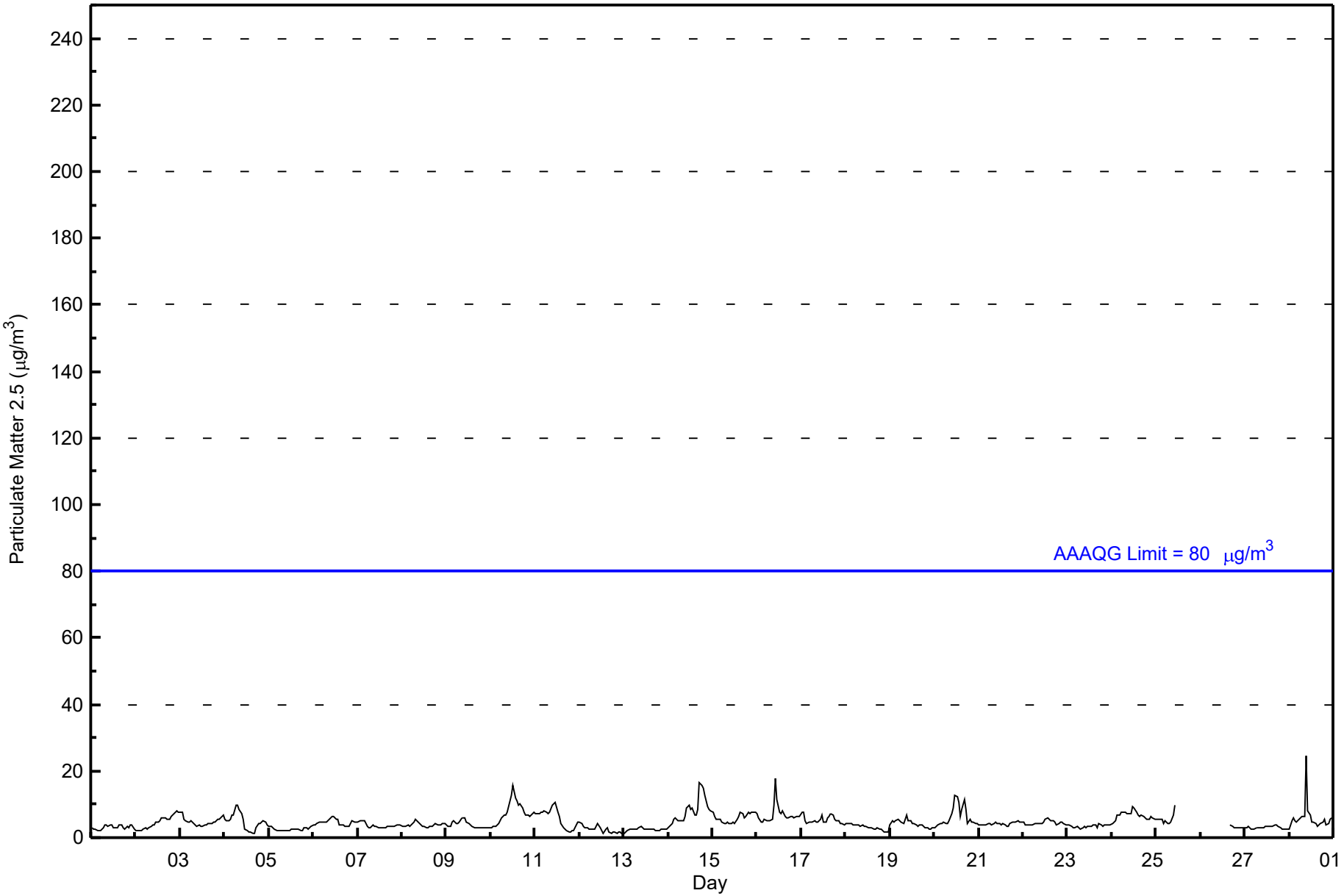
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort McKay South - February 2026





Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort McKay South - February 2026

Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	481	74.81	74.81
6 - 15	157	24.42	99.22
16 - 25	5	0.78	100.00
26 - 80	0	0.00	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 643

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort McKay South - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	89	134	15	6	1	3	4	41	53	38	26	17	20	6	7	20	480
6 - 15	22	38	3	1	0	1	6	21	15	19	11	5	3	1	5	6	157
16 - 25	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	5
26 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	112	173	19	7	1	4	10	63	69	57	37	22	23	7	12	26	642

Total Number of Valid Hours: 642

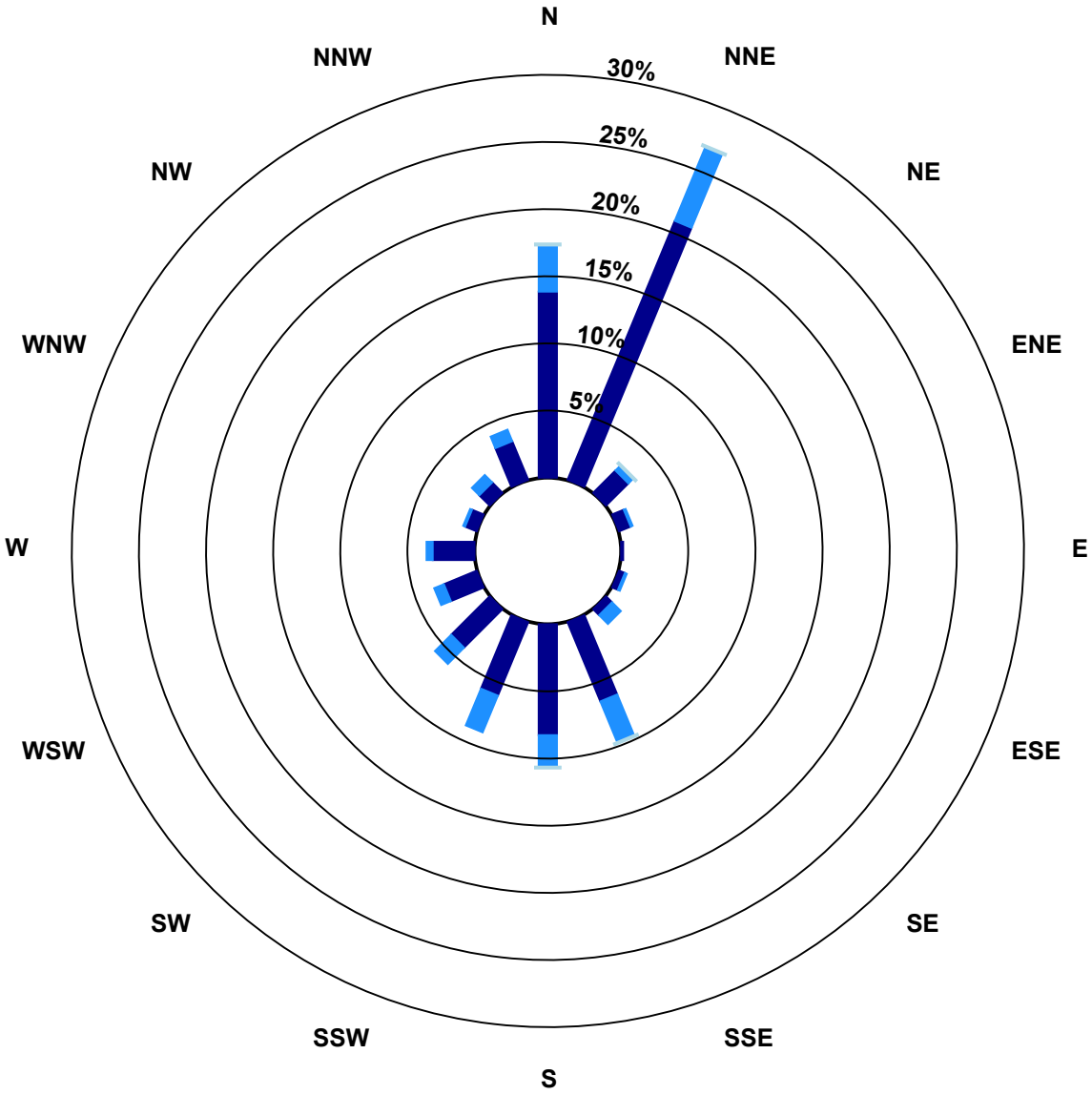
Total Number of Hours: 672

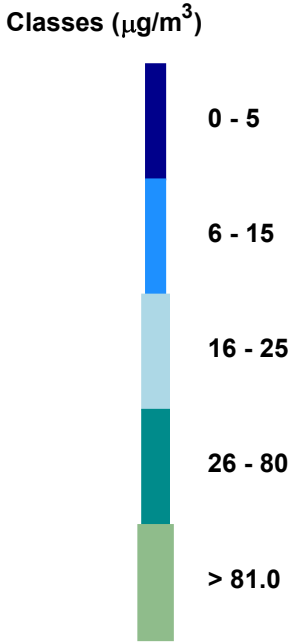
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort McKay South





Total Number of Valid Hours: 642

Maximum Value: 10.1 C on Feb 4 15:00
Maximum Daily Average: 0.0 C on Feb 4

Minimum Value: -42.4 C on Feb 28 07:00
Minimum Daily Average: -32.5 C on Feb 19
Maximum Diurnal Average: -12.1 C at hour 16
Minimum Diurnal Average: -20.3 C at hour 8
Monthly Average: -16.92 C
Percentiles: P_1 = -41.0 P_{10} = -30.6 Q_1 = -24.9 Median = -15.9 Q_3 = -10.1 P_{90} = -4.4 P_{99} = 5.7

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

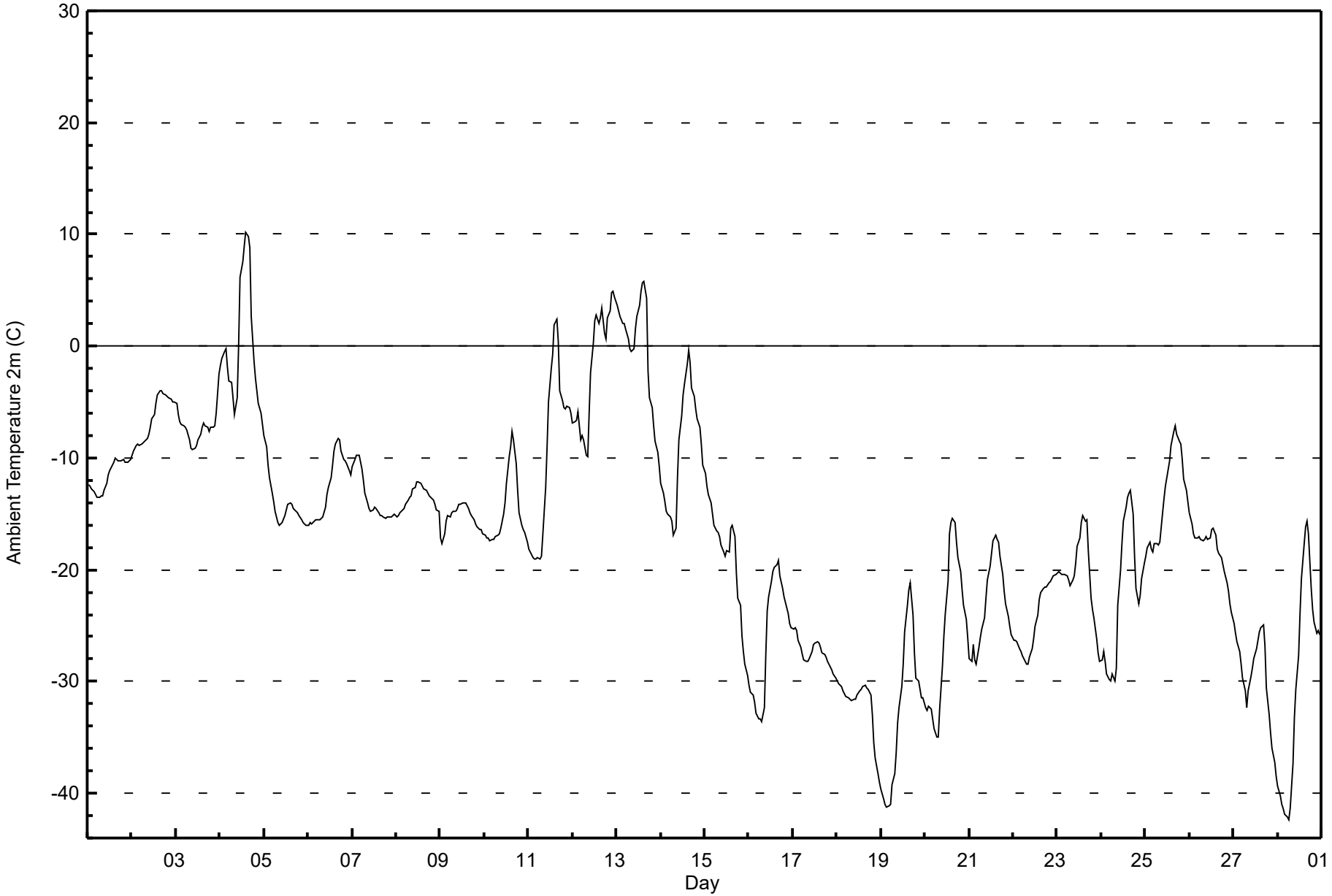
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.4	-12.6	-12.8	-13.1	-13.3	-13.5	-13.5	-13.5	-13.4	-12.9	-12.3	-11.5	-11.1	-10.6	-10.4	-10.1	-10.2	-10.3	-10.3	-10.2	-10.3	-10.3	-10.4	-10.1	-11.6	-10.1
2-Feb	-9.8	-9.4	-8.9	-8.7	-8.8	-8.7	-8.6	-8.5	-8.3	-7.8	-7.2	-6.5	-6.1	-5.1	-4.4	-4.0	-3.9	-4.3	-4.4	-4.5	-4.6	-4.7	-4.9	-5.1	-6.6	-3.9
3-Feb	-5.2	-6.1	-6.7	-7.0	-7.1	-7.3	-7.6	-8.4	-9.1	-9.3	-9.2	-8.9	-8.3	-7.9	-7.2	-6.9	-7.1	-7.2	-7.6	-7.3	-7.3	-7.1	-6.0	-2.4	-7.3	-2.4
4-Feb	-1.7	-1.1	-0.4	-0.2	-1.9	-3.1	-3.3	-4.6	-6.1	-4.6	0.0	6.1	7.5	8.9	10.1	9.7	8.8	2.6	-1.4	-2.8	-4.0	-5.1	-6.0	-7.0	0.0	10.1
5-Feb	-8.0	-9.0	-10.7	-11.8	-13.1	-13.8	-14.7	-15.8	-16.0	-15.9	-15.7	-15.1	-14.7	-14.2	-14.0	-14.2	-14.5	-14.8	-14.9	-15.2	-15.6	-15.8	-15.9	-16.0	-14.2	-8.0
6-Feb	-16.0	-15.8	-15.8	-15.7	-15.6	-15.6	-15.5	-15.5	-15.3	-14.4	-13.2	-12.7	-11.8	-10.7	-9.3	-8.7	-8.3	-8.4	-9.3	-10.2	-10.2	-10.5	-11.1	-11.6	-12.6	-8.3
7-Feb	-10.8	-10.1	-9.7	-9.8	-9.8	-11.1	-12.1	-13.1	-14.1	-14.6	-14.8	-14.7	-14.4	-14.5	-14.9	-15.1	-15.2	-15.3	-15.4	-15.3	-15.2	-15.2	-15.1	-15.0	-13.6	-9.7
8-Feb	-15.2	-15.2	-14.9	-14.7	-14.5	-14.1	-13.8	-13.5	-13.3	-12.8	-12.7	-12.1	-12.2	-12.3	-12.6	-12.7	-12.9	-13.2	-13.3	-13.6	-13.8	-14.1	-14.6	-14.8	-13.6	-12.1
9-Feb	-17.1	-17.6	-16.8	-15.6	-15.2	-15.3	-15.0	-14.8	-14.8	-14.6	-14.1	-14.2	-14.0	-14.0	-14.1	-14.5	-14.8	-15.1	-15.6	-15.9	-16.2	-16.4	-16.4	-16.7	-15.4	-14.0
10-Feb	-16.9	-17.1	-17.2	-17.4	-17.3	-17.2	-17.0	-16.9	-16.7	-16.2	-15.1	-14.0	-12.3	-9.9	-9.0	-7.7	-8.3	-10.5	-12.9	-14.9	-16.1	-16.4	-16.6	-17.6	-14.6	-7.7
11-Feb	-18.1	-18.4	-18.9	-19.1	-19.1	-18.9	-19.1	-18.7	-16.8	-12.7	-9.0	-4.9	-2.0	-0.7	1.9	2.4	0.3	-3.9	-4.9	-5.5	-5.6	-5.4	-5.4	-5.9	-9.5	2.4
12-Feb	-6.8	-6.8	-6.6	-5.9	-8.4	-8.0	-8.4	-9.8	-9.9	-6.0	-2.3	0.3	2.3	2.8	2.0	2.5	3.4	1.2	0.6	2.5	3.2	4.8	4.9	4.4	-1.8	4.9
13-Feb	3.7	3.2	2.6	2.0	2.0	1.6	0.7	-0.2	-0.4	-0.2	1.5	2.7	3.7	4.9	5.7	5.8	4.3	-2.2	-4.7	-5.5	-7.1	-8.6	-9.5	-10.8	-0.2	5.8
14-Feb	-12.3	-13.2	-13.9	-14.7	-15.1	-15.3	-15.7	-17.0	-16.2	-11.7	-8.4	-6.3	-4.4	-3.4	-1.6	-0.3	-1.5	-3.7	-4.5	-5.6	-6.5	-7.2	-8.8	-10.6	-9.1	-0.3
15-Feb	-11.4	-12.5	-13.2	-14.0	-15.0	-16.0	-16.5	-16.6	-17.0	-17.8	-18.4	-18.7	-18.3	-18.4	-16.3	-16.1	-17.0	-20.3	-22.5	-23.1	-25.9	-27.4	-28.5	-29.5	-18.8	-11.4
16-Feb	-30.3	-31.0	-31.2	-31.9	-32.8	-33.4	-33.3	-33.6	-32.3	-27.5	-23.7	-22.4	-21.1	-20.2	-19.8	-19.6	-19.2	-20.6	-21.7	-22.5	-22.9	-24.0	-24.8	-25.2	-26.0	-19.2
17-Feb	-25.3	-25.2	-25.5	-26.3	-26.9	-27.5	-28.1	-28.3	-28.2	-27.9	-27.4	-26.6	-26.5	-26.5	-26.5	-26.9	-27.4	-27.6	-27.8	-28.2	-28.7	-28.9	-29.4	-29.6	-27.4	-25.2
18-Feb	-29.9	-30.2	-30.5	-30.8	-31.1	-31.3	-31.5	-31.6	-31.7	-31.6	-31.5	-31.2	-30.8	-30.6	-30.5	-30.4	-30.6	-30.8	-31.2	-32.9	-35.4	-36.8	-38.2	-39.0	-32.1	-29.9
19-Feb	-39.6	-40.4	-41.0	-41.2	-41.2	-41.0	-39.2	-38.2	-36.3	-33.7	-32.3	-30.5	-28.5	-25.5	-23.2	-21.7	-21.1	-24.0	-27.5	-29.7	-29.9	-30.7	-31.5	-31.4	-32.5	-21.1
20-Feb	-32.3	-32.6	-32.2	-32.4	-33.4	-34.3	-35.0	-35.0	-32.4	-28.5	-25.9	-23.9	-21.0	-16.8	-15.8	-15.4	-15.7	-17.6	-18.9	-20.2	-21.9	-23.1	-24.5	-26.1	-25.6	-15.4
21-Feb	-27.9	-28.3	-26.7	-28.1	-28.4	-27.0	-26.1	-25.3	-24.3	-22.5	-20.9	-19.7	-18.5	-17.4	-16.9	-17.2	-17.5	-18.7	-20.5	-21.9	-23.0	-24.2	-25.0	-25.8	-23.0	-16.9
22-Feb	-26.3	-26.3	-26.5	-27.0	-27.3	-27.7	-28.3	-28.5	-28.4	-27.9	-27.1	-26.2	-25.1	-24.1	-22.7	-22.0	-21.7	-21.6	-21.6	-21.2	-21.1	-20.7	-20.6	-20.4	-24.6	-20.4
23-Feb	-20.2	-20.2	-20.5	-20.4	-20.4	-20.5	-20.9	-21.4	-20.9	-20.6	-19.4	-18.0	-17.1	-15.8	-15.2	-15.6	-15.5	-18.3	-22.5	-23.5	-24.3	-26.2	-27.4	-28.1	-20.5	-15.2
24-Feb	-28.1	-27.4	-28.2	-29.4	-29.8	-29.9	-29.4	-30.0	-28.8	-23.2	-20.0	-17.7	-15.7	-14.4	-13.6	-13.2	-12.9	-15.1	-18.8	-21.7	-23.0	-22.3	-20.9	-19.4	-22.2	-12.9
25-Feb	-18.8	-18.1	-17.5	-18.2	-18.4	-17.7	-17.6	-17.8	-17.6	-15.0	-13.7	-12.5	-11.0	-10.2	-8.9	-7.7	-7.1	-7.9	-8.5	-8.7	-10.2	-11.9	-12.9	-13.9	-13.4	-7.1
26-Feb	-14.9	-15.9	-16.8	-17.1	-17.2	-17.1	-17.2	-17.4	-17.3	-17.0	-17.3	-17.2	-16.4	-16.3	-16.9	-18.1	-18.5	-18.9	-19.5	-20.1	-21.1	-22.0	-23.0	-23.8	-18.2	-14.9
27-Feb	-24.9	-25.7	-26.4	-27.3	-28.5	-29.7	-30.8	-32.4	-30.9	-29.6	-28.8	-27.9	-27.0	-26.3	-25.6	-25.2	-25.0	-26.8	-30.6	-32.9	-34.6	-36.0	-37.2	-38.4	-29.5	-24.9
28-Feb	-39.3	-40.3	-41.0	-41.3	-41.8	-42.1	-42.4	-41.4	-37.3	-33.3	-30.8	-27.6	-23.9	-20.8	-17.7	-16.2	-15.6	-16.7	-21.7	-23.6	-24.7	-25.6	-25.5	-25.8	-29.9	-15.6
	-18.4	-18.7	-18.9	-19.2	-19.6	-19.8	-20.0	-20.3	-19.8	-18.2	-16.8	-15.4	-14.2	-13.2	-12.4	-12.1	-12.3	-13.9	-15.4	-16.2	-17.0	-17.6	-18.0	-18.4	Diurnal Average	
	3.7	3.2	2.6	2.0	2.0	1.6	0.7	-0.2	-0.4	-0.2	1.5	6.1	7.5	8.9	10.1	9.7	8.8	2.6	0.6	2.5	3.2	4.8	4.9	4.4	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Fort McKay South - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	239	35.57	35.57
-20 - 0	396	58.93	94.49
0 - 10	36	5.36	99.85
10 - 20	1	0.15	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 97.6 % on Feb 4 06:00

Maximum Daily Average: 86.7 % on Feb 6

Minimum Value: 35.3 % on Feb 13 16:00

Minimum Daily Average: 55.0 % on Feb 13

Maximum Diurnal Average: 80.6 % at hour 8

Minimum Diurnal Average: 66.7 % at hour 15

Monthly Average: 76.36 %

Percentiles: P_1 = 47.6 P_{10} = 62.5 Q_1 = 70.0 Median = 77.6 Q_3 = 84.6 P_{90} = 88.5 P_{99} = 95.8

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

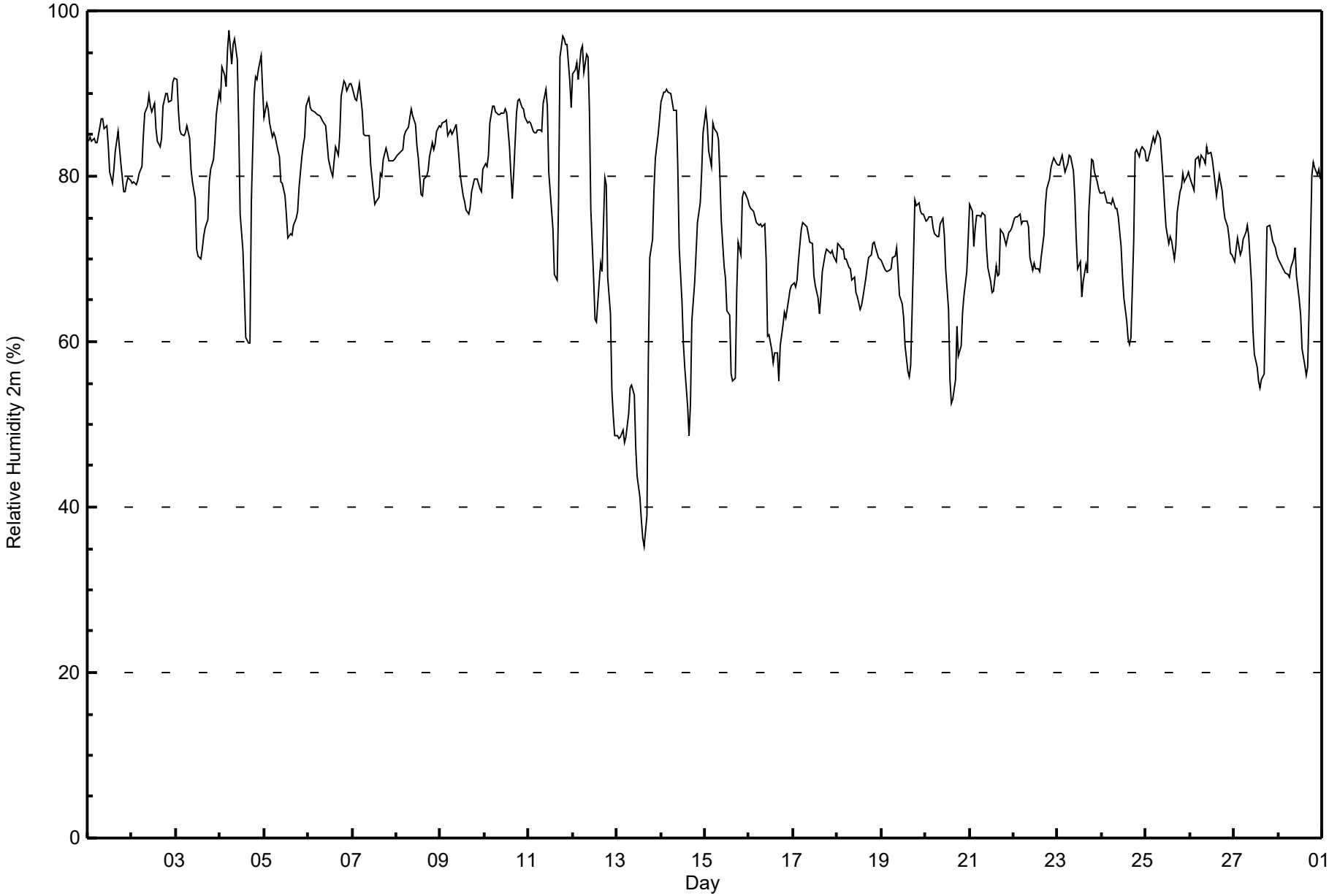
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	84.2	84.8	84.2	84.7	84.0	84.1	86.0	87.0	87.0	85.8	86.2	83.7	80.6	79.2	80.9	83.0	85.4	83.4	81.5	78.2	78.1	79.1	79.8	79.5	82.9	87.0
2-Feb	79.2	79.4	78.9	79.5	80.4	81.2	84.9	87.7	88.4	89.8	88.4	87.8	88.8	85.7	84.3	83.6	84.6	88.5	89.9	90.1	89.0	89.2	91.4	91.9	85.9	91.9
3-Feb	91.6	88.1	85.6	85.0	84.9	85.3	86.0	84.6	80.9	79.3	77.2	71.1	70.3	70.0	71.1	72.8	73.7	74.7	79.4	80.9	82.0	84.3	87.5	90.2	80.7	91.6
4-Feb	89.3	93.2	92.2	90.9	95.3	97.6	93.6	95.9	96.5	94.0	86.0	75.5	71.1	66.0	60.4	59.8	59.8	77.0	90.0	92.1	91.7	93.0	94.6	90.5	85.2	97.6
5-Feb	87.2	88.8	88.2	86.4	84.7	85.3	84.8	83.1	82.5	79.4	79.2	77.7	75.2	72.6	73.0	72.9	74.1	74.9	75.7	78.6	82.4	83.8	84.8	88.5	81.0	88.8
6-Feb	89.5	88.3	88.0	87.9	87.7	87.5	87.3	86.9	86.7	86.2	84.1	82.0	80.5	80.1	81.9	83.5	82.6	84.9	89.7	91.5	91.2	90.3	91.2	91.2	86.7	91.5
7-Feb	90.7	89.3	89.2	90.2	91.2	87.9	85.1	84.9	84.9	84.9	81.5	78.2	76.6	77.0	77.4	80.4	80.0	82.1	83.3	82.7	81.8	81.8	81.9	82.1	83.5	91.2
8-Feb	82.5	82.7	82.9	83.3	84.9	85.5	86.0	87.2	88.1	87.3	86.3	83.8	82.2	77.8	77.7	79.7	80.0	80.6	82.4	84.1	83.2	83.8	85.4	86.1	83.5	88.1
9-Feb	85.9	86.5	86.6	86.7	85.0	85.6	85.2	85.4	86.3	84.5	82.2	80.0	77.6	76.9	75.9	75.5	76.2	78.1	79.7	79.7	79.7	78.5	78.1	80.9	81.5	86.7
10-Feb	81.5	81.2	82.6	86.4	88.5	88.5	87.9	87.5	87.4	87.6	87.7	88.2	87.6	83.5	80.4	77.2	80.3	87.7	89.2	89.3	88.2	88.1	87.2	86.5	85.8	89.3
11-Feb	86.6	86.5	85.4	85.3	85.3	85.6	85.6	85.5	88.8	90.5	88.6	80.4	75.9	73.5	68.1	67.4	77.1	94.3	96.9	96.7	96.0	95.9	91.5	88.4	85.7	96.9
12-Feb	92.3	92.8	93.7	91.8	95.2	95.8	92.5	94.7	94.3	87.9	75.9	67.6	62.7	62.5	67.3	69.4	68.4	79.8	79.0	67.9	63.4	54.0	51.1	48.7	77.0	95.8
13-Feb	48.6	48.3	48.5	49.4	47.8	48.6	51.4	54.5	54.8	53.6	47.3	43.7	41.1	38.4	36.2	35.3	39.0	58.2	70.2	72.3	78.3	82.2	85.1	87.0	55.0	87.0
14-Feb	89.1	90.1	90.1	90.4	90.1	90.0	89.1	88.0	88.1	81.1	71.4	64.8	59.6	56.8	52.1	48.6	52.3	62.5	67.2	70.7	74.5	76.7	80.4	85.2	75.4	90.4
15-Feb	88.0	86.4	83.1	81.2	86.4	85.8	85.3	84.5	80.0	74.6	69.1	67.6	63.8	63.3	56.1	55.2	55.6	65.9	72.1	70.6	77.5	78.1	77.9	77.2	74.4	88.0
16-Feb	76.5	76.2	75.8	75.1	74.4	74.1	74.3	73.8	74.2	69.9	60.6	60.9	58.9	57.5	58.7	58.7	55.3	59.5	62.1	63.5	62.9	65.2	66.3	66.8	66.7	76.5
17-Feb	67.0	66.6	67.5	69.8	73.6	74.3	74.2	73.9	73.0	72.1	71.8	67.9	66.7	65.2	63.4	65.5	68.5	70.5	71.2	71.0	70.6	71.0	70.4	69.6	69.8	74.3
18-Feb	71.9	71.8	71.2	71.2	69.9	70.1	69.1	68.9	67.5	67.8	65.9	65.4	63.9	64.5	65.5	67.6	69.0	70.2	70.5	71.8	72.0	71.3	70.2	70.0	69.1	72.0
19-Feb	69.8	69.0	68.7	68.5	68.7	68.8	70.1	70.4	71.3	68.7	65.7	64.5	62.8	59.5	56.5	55.8	57.0	70.0	77.1	76.5	76.7	75.8	75.4	75.4	68.4	77.1
20-Feb	74.5	74.8	75.1	75.1	73.7	73.1	72.7	72.8	74.2	74.9	72.9	68.7	63.8	55.5	52.6	53.1	55.4	61.9	58.3	59.5	63.5	65.6	68.5	72.4	67.2	75.1
21-Feb	76.6	75.7	71.6	73.7	75.2	75.3	75.0	75.6	75.2	71.5	69.0	67.3	65.9	66.1	69.2	67.9	68.1	73.5	73.1	72.5	71.7	73.2	73.5	73.7	72.1	76.6
22-Feb	75.0	75.1	75.1	75.3	74.3	74.5	74.5	74.5	73.9	70.2	68.6	69.5	68.9	68.7	68.5	70.1	72.8	76.5	78.4	79.6	81.0	81.8	82.3	81.5	74.6	82.3
23-Feb	81.3	81.4	82.6	81.6	80.5	81.6	82.6	82.4	80.6	77.6	72.5	68.8	69.6	65.4	67.4	69.3	68.3	75.7	82.1	81.9	80.6	79.4	78.5	78.0	77.1	82.6
24-Feb	78.0	78.2	77.5	76.9	76.8	76.6	77.2	76.0	76.2	75.1	71.5	68.0	65.3	62.6	60.4	59.6	60.5	72.2	82.8	83.2	82.4	83.2	83.6	83.0	74.4	83.6
25-Feb	81.9	81.9	83.3	84.1	84.7	84.1	85.4	85.1	84.6	79.6	76.6	73.8	71.9	72.8	72.2	69.9	71.5	75.5	78.1	78.7	80.4	79.4	80.0	80.5	79.0	85.4
26-Feb	79.9	78.8	78.4	82.0	82.3	81.3	82.6	82.1	81.6	83.5	82.7	83.0	82.0	80.7	77.6	78.9	80.2	78.2	76.3	75.0	73.8	72.6	70.6	70.5	78.9	83.5
27-Feb	69.7	71.2	72.5	70.5	71.0	72.4	73.2	74.1	72.7	67.0	61.3	58.5	56.9	55.3	54.5	55.4	56.0	64.9	73.9	74.0	73.2	72.2	71.4	70.6	67.2	74.1
28-Feb	70.1	69.3	69.0	68.7	68.3	68.1	67.8	68.9	70.0	71.4	67.9	65.1	63.3	59.2	57.0	55.9	57.0	63.8	80.1	81.7	81.1	80.1	80.9	79.7	69.3	81.7
	79.9	79.9	79.5	79.7	80.2	80.3	80.3	80.6	80.3	78.4	74.9	71.9	69.8	67.7	66.7	66.9	68.2	74.5	78.2	78.4	78.8	78.9	79.3	79.5	Diurnal Average	
	92.3	93.2	93.7	91.8	95.3	97.6	93.6	95.9	96.5	94.0	88.6	88.2	88.8	85.7	84.3	83.6	85.4	94.3	96.9	96.7	96.0	95.9	94.6	91.9	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Fort McKay South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Fort McKay South - February 2026

Maximum Speed: 28 km/h on Feb 17 13:00

Maximum Daily Speed Average: 22.4 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 10 20:00

Minimum Daily Speed Average: 1.2 km/h on Feb 10

Maximum Diurnal Speed Average: 4.8 km/h at hour 19

Minimum Diurnal Speed Average: 2.5 km/h at hour 14

Monthly Average Velocity: 3.2 km/h 19.6 deg

Percentiles: P_1 = 1 P_{10} = 2 Q_1 = 3 Median = 7 Q_3 = 11 P_{90} = 16 P_{99} = 27

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	E2	ESE2	ESE3	SSE5	SSE6	SSE4	SSE6	SSE5	SSE5	SSE8	SSE8	SSE14	SSE13	SSE11	SSE11	SSE11	SSE11	SSE7	SSE7	S12	S12	S10	S11	S12	SSE7.9	SSE14
2-Feb	S14	S11	S12	S10	S8	S10	S11	S10	S9	S9	SSE9	SSE8	SSE8	S8	SSE7	SSE5	ESE2	S1	N3	N4	NNW5	NNE7	NNE5	NNE4	SSE5.1	S14
3-Feb	N6	NNE9	NNE7	NNE6	N4	NNE4	NE5	NE6	NNE7	NNE6	NE6	NNE4	NNE3	S1	S1	NNE4	NNE4	N3	NE1	N3	N3	NW1	SSE1	S16	NNE3.1	S16
4-Feb	S15	S18	S16	S14	SW3	WSW4	SW5	NNE3	NNW2	SW1	WSW1	WSW9	WSW11	WSW8	SW7	SW7	W7	NNE16	NNE15	N16	N16	N15	NNE12	NNE15	WNW1.4	S18
5-Feb	NNE13	NNE13	NNE15	NNE16	NNE16	NNE12	NNE16	NNE19	NNE14	NNE12	NNE10	NNE9	NNE8	NE6	NE7	NNE6	NE6	ENE5	NE5	NE7	NNE6	NNE6	N7	NNE7	NNE9.8	NNE19
6-Feb	N7	N5	N5	N4	NNE5	N5	N4	NNW4	NNW4	N5	NNE4	NNE5	NNE2	SE3	S8	SSE8	SSE5	SE2	NW1	W2	W3	W2	SSW1	SSW3	NNE1.4	SSE8
7-Feb	N2	NNW3	N2	NNW2	NNE10	NNE11	NNE9	NNE12	NNE14	NNE13	NNE12	NNE12	NNE11	NNE11	NNE12	NNE10	NNE9	NNE8	NNE9	NNE11	NNE10	NNE10	N9	N8	NNE9.1	NNE14
8-Feb	N8	N8	N6	NNW5	NNW6	N5	NNW3	NW3	NW1	NNE5	N7	N8	N11	NNE11	NNE9	NNE9	NNE7	NNE5	NNE5	NE5	NE5	ENE4	N2	ESE1	N5.4	N11
9-Feb	W1	W1	NNW2	N2	N2	N3	N4	NNE3	NNE7	NNE7	NNE8	NNE11	N11	N12	NNE11	NNE11	NNE11	N10	N11	NNE10	NNE10	NNE9	NNE8	N9	NNE7.1	N12
10-Feb	N8	N6	N6	NNW7	NNW5	NNW4	NNW2	N1	W1	W2	SW3	SSW5	S7	SSW8	SSW6	SSW6	SW4	SW3	SSW2	NNW0	S4	SSW1	S3	SW2	WSW1.2	SSW8
11-Feb	SSW3	SSW5	SSW2	WSW1	SW2	WSW3	SW1	SW3	S5	SSW5	SSE4	SSE4	SE4	SSE9	S6	S7	SSW6	SW2	SW4	S4	S3	N2	NNE3	ENE1	S2.8	SSE9
12-Feb	ENE0	W1	WNW1	SW4	SSW1	WSW5	S3	S4	S4	S6	SSE7	SSE10	S12	S13	S9	S7	S10	S8	S10	S14	S11	SW10	SW12	SW11	S6.6	S14
13-Feb	SW11	SW12	SW14	WSW13	WSW14	W14	W11	WSW11	SSW5	SW7	WSW10	WSW10	SW12	SW10	SW8	SW7	SSW5	SSW4	SW4	W1	NW2	W2	SW2	SW2	WSW7.5	WSW14
14-Feb	SSW4	SW2	S4	SSW3	S4	SSW3	W1	SSW5	W1	NNE2	NNE3	NNE5	NE3	SSE5	SSE3	NE4	NNE6	NNE7	N6	NNW4	NNE4	NNE5	N10	N4	NNE1.3	N10
15-Feb	NNE9	NNE11	NNE10	NNE10	NNE10	NNE8	N7	NNE9	NNE10	NNE11	NE10	NNE10	NNE8	N7	NNE5	NNE7	NNE7	N5	N6	N5	NNW4	NW3	NW4	NW2	NNE7.1	NNE11
16-Feb	WNW2	W2	SW1	WSW1	WSW2	W2	WNW1	WSW2	N1	ENE2	NE5	NNE8	NNE9	NNE10	NNE12	N11	N13	NNE12	N12	NNE10	NNE16	NNE15	N15	N16	N6.7	NNE16
17-Feb	NNE14	NNE16	NNE15	NNE15	NNE15	NNE17	NNE19	NNE21	NNE23	NNE24	NNE24	NNE23	N28	NNE27	NNE26	N27	NNE27	N27	N26	N24	NNE25	NNE24	NNE26	NNE27	NNE22.4	NNE28
18-Feb	NNE24	NNE23	NNE24	N25	NNE25	N26	N27	N24	NNE25	N23	NNE22	NNE18	NNE18	NNE18	NNE18	NNE14	N15	N11	NNW7	NW3	WSW3	SW2	SW2	S1	N15.9	N27
19-Feb	SSW3	SSW2	SW2	SSW3	S4	SSW3	SSW5	SSW4	S7	SSE11	SSE13	SSE15	SSE16	SSE14	SSE14	SSE11	S10	SSW4	SSW3	SSW4	SSW4	SSW5	SSW3	SSW2	S6.4	SSE16
20-Feb	S4	SSW5	S6	S5	S3	SSW3	SSW3	S3	S4	SSE5	SE6	SE7	SE5	NE3	N7	N9	N9	N8	N11	NNE13	N11	N9	N6	N5	NNE1.6	NNE13
21-Feb	N2	NNW6	N7	N4	N4	NNW1	WNW2	WNW2	W2	NNW2	NE2	NNE7	N8	NNE8	NNE13	NNE14	NNE13	N16	N15	NNE14	NNE16	NNE15	N16	N13	N8.2	NNE16
22-Feb	NNE12	NNE12	NNE11	N12	N12	N13	N13	N11	N10	NNE12	NNE11	NNE9	NNE9	NNE10	NNE9	NNE8	NNE7	N5	N5	N4	NNW3	NNW2	NNW2	N2	N8.4	N13
23-Feb	N3	N3	NNW2	S5	SSE4	SSE4	SSE3	SSW2	SSE1	SSE6	SSW6	SE2	SE5	ENE3	ENE3	SSE5	SSE3	N4	WNW2	WSW1	W1	W2	WSW1	UO	SSE1.3	SSE6
24-Feb	SSW2	S3	S2	SW3	SSW4	SSW3	SSW3	SSW3	S3	SSE6	SSE10	SSE10	SE11	SSE11	SSE12	SSE11	SSE9	S6	SSW3	SW2	SSW2	S3	SSW2	N2	SSE4.6	SSE12
25-Feb	N2	N3	N3	NW1	NW1	N1	SSW2	S2	S3	SSE4	SSE9	SSE13	SSE11	SSE10	SSE5	SSE4	NNE3	N9	N8	NNE11	NNE14	N12	NNE13	NNE15	NE2.2	NNE15
26-Feb	NNE14	NNE15	NNE13	NNE13	N14	NNE13	NNE13	N13	NNE14	NNE14	N18	NNE19	N22	N23	N23	N21	N18	N24	N24	N27	N24	N19	NNE18	N17	N18.0	N27
27-Feb	N18	NNE15	NNE13	NNE13	NNE12	NNE8	NNE6	N5	N4	NNE7	NNE10	NE8	NE8	NNE8	NNE8	N7	N7	NNW5	NW2	WSW2	W1	WSW2	W1	WSW2	NNE6.5	N18
28-Feb	W0	SSW2	SSW2	SW1	SW2	SSW2	SSW2	S4	S6	SSE9	SSE12	SSE14	SSE15	SSE16	SSE19	SSE18	SSE14	S9	SSW4	SSW3	SSW2	S4	SE3	NW1	SSE6.5	SSE19
	NNE3.2	NNE3.2	NNE2.9	N2.6	N3.4	N3.1	N3.1	N2.9	NNE3.0	NE3.1	NE3.2	NE2.9	NE2.7	ENE2.5	NE2.6	NE2.7	NNE3.3	NNE4.8	N4.8	N4.6	N4.6	N4.3	N4.2	N3.5	Diurnal Average	
	NNE24	NNE23	NNE24	N25	NNE25	N26	N27	N24	NNE25	NNE24	NNE24	NNE23	NNE28	NNE27	NNE26	N27	NNE27	NNE27	N26	N27	NNE25	NNE24	NNE26	NNE27	Diurnal Maximum	

UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 7 km/h on Feb 17 21:00

Minimum Value: 0 km/h on Feb 15 23:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 6

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	0
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	1	1	1	1	1	1	2	2	2	3	3	4	2	3	3	3	2	3	2	3	2	2	3	4
2-Feb	3	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	1	1	1	1	1	2	2	1	3
3-Feb	3	2	2	1	1	2	2	2	2	1	2	2	2	1	1	1	1	1	1	1	1	1	4	3	4
4-Feb	3	4	5	3	2	3	2	1	1	2	2	3	4	3	3	2	2	4	3	4	3	3	3	3	5
5-Feb	4	3	3	4	4	3	4	5	4	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	5
6-Feb	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	2	2	1	1	1	1	1	1	1	3
7-Feb	1	1	1	2	3	3	2	3	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	2	4
8-Feb	2	2	2	1	1	1	1	1	1	2	1	2	2	2	2	2	2	1	1	1	1	1	1	1	2
9-Feb	1	1	1	1	1	1	1	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	3
10-Feb	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	2	1	1	1	2
11-Feb	1	1	1	1	1	1	1	1	1	1	2	1	2	2	1	1	2	1	1	1	1	2	1	1	2
12-Feb	1	1	1	2	1	3	2	1	1	1	2	2	3	3	2	2	3	3	3	3	2	3	3	3	3
13-Feb	3	3	4	4	5	5	4	4	3	2	3	4	3	3	2	2	1	1	1	2	1	1	1	1	5
14-Feb	1	1	1	2	1	1	1	2	1	1	1	1	1	2	2	1	3	2	1	1	1	1	3	3	3
15-Feb	3	3	2	2	3	3	2	2	3	3	3	2	2	2	2	2	1	1	1	1	1	0	0	1	3
16-Feb	1	1	2	1	1	1	1	1	1	1	2	2	2	2	3	3	3	2	3	2	4	3	3	3	4
17-Feb	4	4	4	4	4	5	5	5	6	6	6	6	6	7	6	7	7	7	6	5	7	6	6	7	7
18-Feb	6	6	6	6	6	6	6	6	6	5	6	5	4	4	5	3	3	3	2	1	1	1	1	1	6
19-Feb	1	1	1	1	1	2	1	1	1	2	2	2	2	2	2	3	2	2	1	1	2	1	2	1	3
20-Feb	1	1	1	1	1	2	1	1	1	2	1	1	2	1	2	2	2	2	3	4	3	2	1	1	4
21-Feb	2	1	1	1	1	1	1	1	1	1	1	2	2	2	4	3	3	3	4	3	4	3	4	3	4
22-Feb	3	2	3	2	2	3	3	2	3	3	2	2	2	2	2	1	1	1	2	1	1	1	1	1	3
23-Feb	1	1	1	2	2	1	1	1	2	2	2	2	1	1	1	2	1	1	1	1	1	1	1	UO	2
24-Feb	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	2
25-Feb	1	1	1	1	1	1	1	2	1	2	2	2	2	2	1	1	2	2	2	3	3	3	3	3	3
26-Feb	4	4	3	3	3	4	3	3	3	3	4	4	5	6	5	5	4	6	6	7	6	4	4	4	7
27-Feb	4	4	3	3	3	2	2	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	4
28-Feb	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	3	2	1	1	2	1	2	1	3
	6	6	6	6	6	6	6	6	6	6	6	6	6	7	6	7	7	7	6	7	7	6	6	7	
	Diurnal Maximum																								

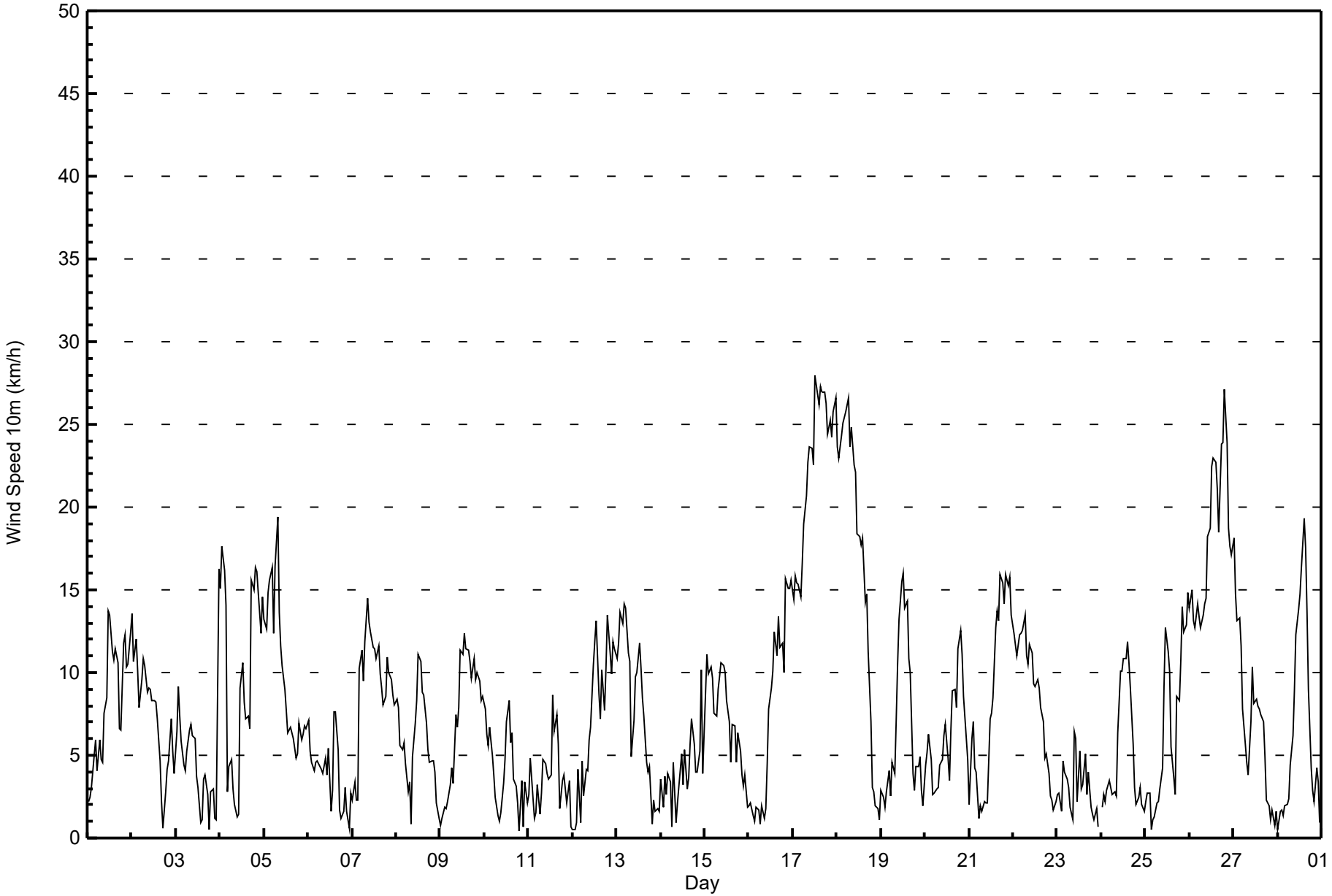
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Fort McKay South - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	297	44.26	44.26
6 - 11	214	31.89	76.16
12 - 19	124	18.48	94.63
20 - 28	36	5.37	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 671

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Fort McKay South - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	43	25	10	7	1	4	7	21	28	51	25	14	20	7	12	22	297
6 - 11	40	77	9	0	0	0	3	31	28	6	8	6	2	0	0	4	214
12 - 19	24	64	0	0	0	0	0	16	13	0	4	2	1	0	0	0	124
20 - 28	13	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	120	189	19	7	1	4	10	68	69	57	37	22	23	7	12	26	671

Total Number of Valid Hours: 671

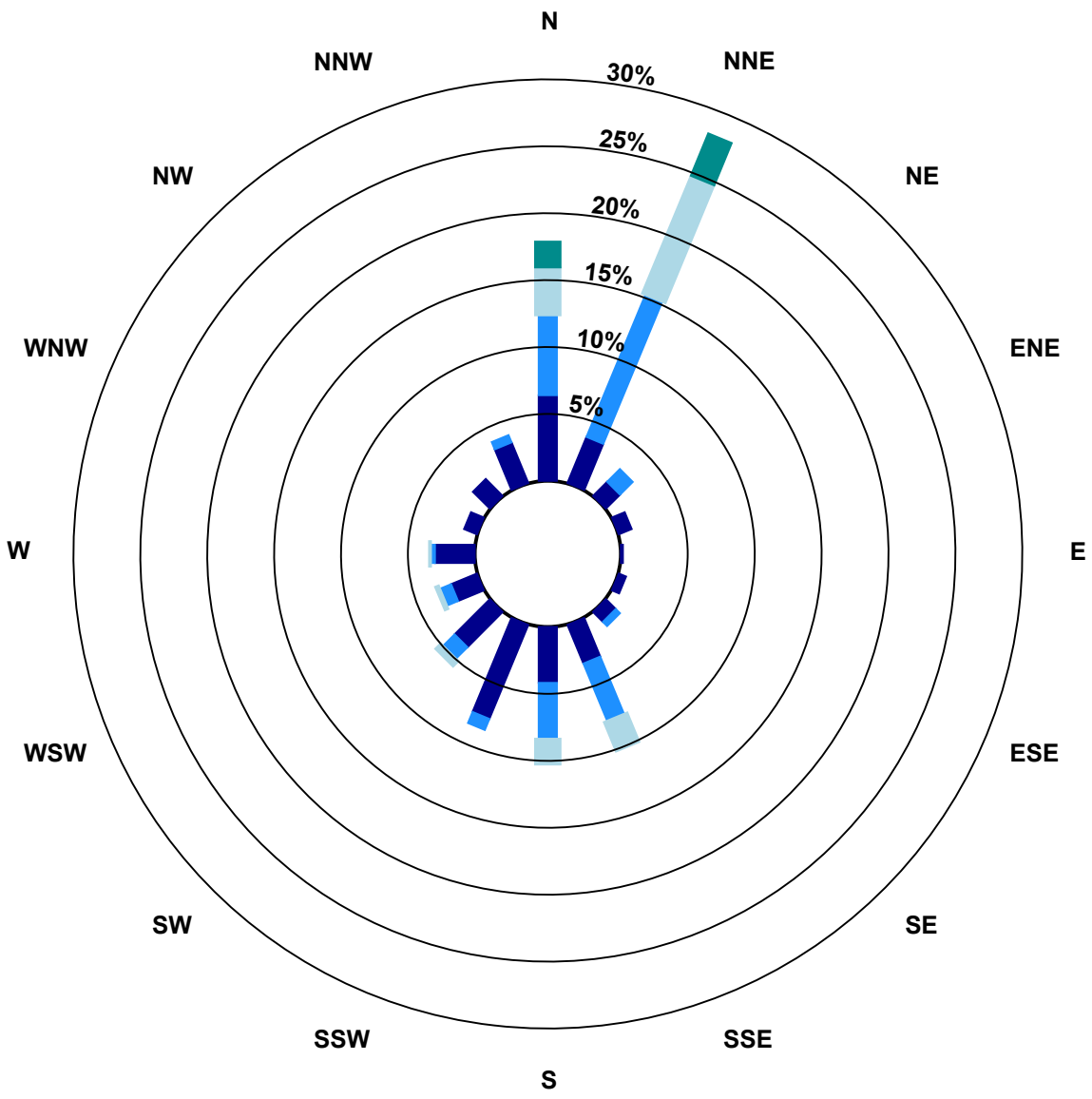
Total Number of Hours: 672

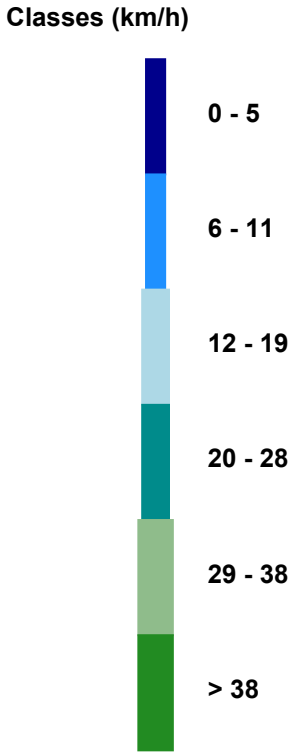
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Fort McKay South





Total Number of Valid Hours: 671

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Fort McKay South - February 2026

Direction of Maximum Speed: 11 deg on Feb 17 13:00
Direction of Maximum Daily Speed Average: 14.8 deg on Feb 17

Direction of Minimum Speed: 339 deg on Feb 10 20:00
Direction of Minimum Daily Speed Average: 1.2 deg on Feb 10

Monthly Average Direction: 19.6 deg

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	96	113	105	162	156	158	164	162	163	157	158	163	157	162	162	166	162	151	158	169	174	175	176	175	162.5
2-Feb	176	172	174	181	179	177	180	178	180	179	162	157	161	169	155	150	115	187	357	355	347	17	18	32	167.7
3-Feb	8	24	23	21	10	21	39	40	29	32	45	26	19	176	191	33	13	4	36	10	1	326	158	176	30.6
4-Feb	176	174	178	179	236	246	221	22	333	216	250	246	255	244	231	229	279	21	15	7	8	10	14	13	300.9
5-Feb	21	18	16	21	14	24	15	14	17	24	19	16	32	43	38	32	51	62	48	35	30	25	8	12	22.8
6-Feb	6	11	351	8	19	10	4	348	348	2	13	28	24	131	170	159	163	139	304	265	273	273	193	200	13.1
7-Feb	8	332	353	342	19	24	29	25	21	29	28	24	31	27	24	14	14	14	15	17	16	13	8	2	19.1
8-Feb	357	356	6	339	341	356	342	318	321	16	359	5	8	15	23	19	24	24	25	40	36	57	4	103	9.6
9-Feb	271	279	343	359	6	349	2	25	20	30	15	12	11	11	14	12	13	7	8	13	22	19	16	7	12.1
10-Feb	5	356	349	348	347	345	345	360	267	263	214	194	188	194	212	212	221	223	207	339	185	196	183	217	249.5
11-Feb	209	193	202	248	220	237	228	224	191	192	168	162	144	159	179	188	195	228	219	185	187	2	13	76	189.0
12-Feb	58	267	295	230	207	239	186	178	181	182	163	164	184	176	177	179	186	184	172	190	188	214	222	224	190.5
13-Feb	218	226	232	237	246	262	275	251	203	225	250	248	229	223	221	220	204	200	236	260	305	268	230	226	236.9
14-Feb	199	216	191	212	185	192	281	204	271	24	25	14	45	166	148	49	15	17	9	338	13	22	6	4	18.6
15-Feb	13	26	24	14	12	22	11	21	28	24	35	22	19	9	22	25	20	1	358	2	340	324	326	304	15.4
16-Feb	289	262	224	256	258	274	299	246	353	65	38	22	14	13	15	10	10	13	10	12	13	13	10	11	9.5
17-Feb	15	14	20	19	21	20	19	22	19	20	17	16	11	15	13	10	12	11	9	10	14	13	12	14	14.8
18-Feb	13	14	14	11	13	10	11	9	14	11	16	19	17	17	13	13	9	1	348	307	247	229	231	172	11.1
19-Feb	197	200	217	208	185	197	193	195	190	160	159	158	158	163	163	164	172	196	202	197	196	193	206	197	173.7
20-Feb	190	193	186	189	187	197	195	184	189	149	145	144	144	38	10	8	7	5	5	15	10	359	357	4	29.3
21-Feb	1	347	358	11	353	328	303	294	277	348	39	12	8	13	18	23	18	10	10	16	19	13	10	11	10.2
22-Feb	17	15	14	10	5	2	9	5	4	14	14	16	17	13	19	18	20	6	354	352	337	342	332	4	9.9
23-Feb	359	6	342	187	165	159	164	193	149	161	203	143	134	75	61	152	151	355	290	251	260	277	249	UO	161.2
24-Feb	204	187	185	220	198	192	199	211	183	153	147	147	146	149	164	160	165	185	192	233	207	189	204	355	168.5
25-Feb	2	1	357	312	314	356	195	176	177	161	150	154	156	157	156	148	30	3	7	18	14	10	17	13	51.0
26-Feb	19	16	22	22	11	12	13	9	12	13	10	12	9	11	9	11	11	2	8	10	7	8	12	11	11.1
27-Feb	11	14	14	17	20	20	23	2	9	33	13	35	43	13	16	2	5	343	318	253	261	252	260	246	13.0
28-Feb	267	209	207	234	234	200	210	189	174	154	152	159	162	160	163	166	164	174	195	202	196	189	142	313	168.6
	12.8	11.5	12.9	4.5	4.7	1.2	6.9	8.9	20.1	43.6	48.3	54.4	56.1	61.2	51.3	41.3	27.1	11.6	7.0	9.7	9.8	7.9	7.0	9.7	
	Diurnal Average																								

UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 95 deg on Feb 10 22:00

Minimum Value: 7 deg on Feb 20 03:00

Percentiles: P_1 = 9 P_{10} = 12 Q_1 = 15 Median = 17 Q_3 = 27 P_{90} = 50 P_{99} = 83

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	0
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	57	42	37	24	16	19	12	19	25	12	14	12	13	14	13	14	15	15	16	12	12	12	12	13	57
2-Feb	13	11	11	14	14	12	9	10	11	11	10	13	11	19	10	17	24	90	10	11	17	14	18	18	90
3-Feb	17	19	17	20	19	49	30	21	21	20	18	34	60	77	69	32	26	32	71	34	18	67	80	10	80
4-Feb	10	10	11	10	55	72	51	44	45	71	80	22	26	31	31	18	30	17	15	15	16	16	16	15	80
5-Feb	16	16	15	16	16	17	15	16	16	19	19	21	29	27	21	23	23	32	28	17	18	17	14	15	32
6-Feb	14	16	15	18	14	18	17	21	18	19	26	28	89	60	15	13	19	77	38	35	36	53	88	26	89
7-Feb	61	32	39	36	15	16	17	16	15	17	17	18	18	18	17	15	15	19	14	15	16	15	14	14	61
8-Feb	16	16	21	18	17	17	25	29	85	31	17	16	15	16	17	17	17	17	18	18	19	25	21	65	85
9-Feb	50	43	19	45	41	18	18	52	16	20	19	16	19	16	17	14	15	15	14	14	15	14	16	13	52
10-Feb	15	15	15	14	19	20	25	34	57	47	39	27	16	27	31	25	39	28	36	89	26	95	18	32	95
11-Feb	31	17	22	68	56	35	46	10	10	9	12	20	56	10	18	13	17	26	29	22	19	80	26	77	80
12-Feb	82	77	49	42	70	59	58	26	27	16	11	14	16	14	12	13	16	14	16	15	12	20	20	20	82
13-Feb	18	20	20	20	24	29	28	26	59	27	26	33	20	23	26	23	26	15	15	80	48	50	31	55	80
14-Feb	23	42	21	22	17	15	81	33	74	58	27	14	52	35	53	32	34	12	21	21	20	16	17	29	81
15-Feb	17	16	20	17	18	18	16	16	18	16	19	18	19	20	38	23	16	14	12	15	21	23	11	29	38
16-Feb	25	22	66	52	35	33	46	33	64	34	15	14	14	17	16	16	15	14	16	14	16	15	15	14	66
17-Feb	14	16	16	15	15	16	15	15	15	16	16	17	18	16	17	16	18	17	17	18	17	17	17	18	18
18-Feb	17	16	17	17	16	16	17	17	16	17	16	18	18	17	17	17	16	16	16	28	10	51	31	73	73
19-Feb	24	26	24	24	39	35	14	16	13	10	11	8	9	11	11	13	11	15	16	7	11	15	20	48	48
20-Feb	12	9	7	11	18	47	16	16	11	13	11	10	19	52	21	14	14	12	16	14	15	17	16	15	52
21-Feb	47	11	12	20	28	74	46	28	32	41	73	19	18	18	16	18	17	16	15	15	16	14	15	14	74
22-Feb	14	15	14	14	15	15	15	15	14	15	16	17	16	17	14	15	15	18	27	15	17	19	18	21	27
23-Feb	9	10	36	46	17	27	21	37	90	11	35	73	38	55	50	32	55	21	28	39	58	48	45	UO	90
24-Feb	30	20	20	24	14	15	15	21	18	8	7	9	11	12	14	9	9	11	15	57	19	15	33	54	57
25-Feb	47	14	27	65	55	70	23	51	22	19	12	11	14	12	16	30	61	15	15	15	15	14	15	14	70
26-Feb	15	15	16	15	15	15	13	16	14	14	14	15	16	16	16	18	16	18	16	17	18	16	15	16	18
27-Feb	17	17	15	17	15	14	12	18	15	21	18	32	25	24	26	18	16	10	26	17	22	22	52	29	52
28-Feb	61	30	25	36	18	19	21	10	15	11	9	10	11	10	9	10	8	14	15	14	32	8	35	71	71
	82	77	66	68	70	74	81	52	90	71	80	73	89	77	69	32	61	90	71	89	58	95	88	77	
	Diurnal Maximum																								

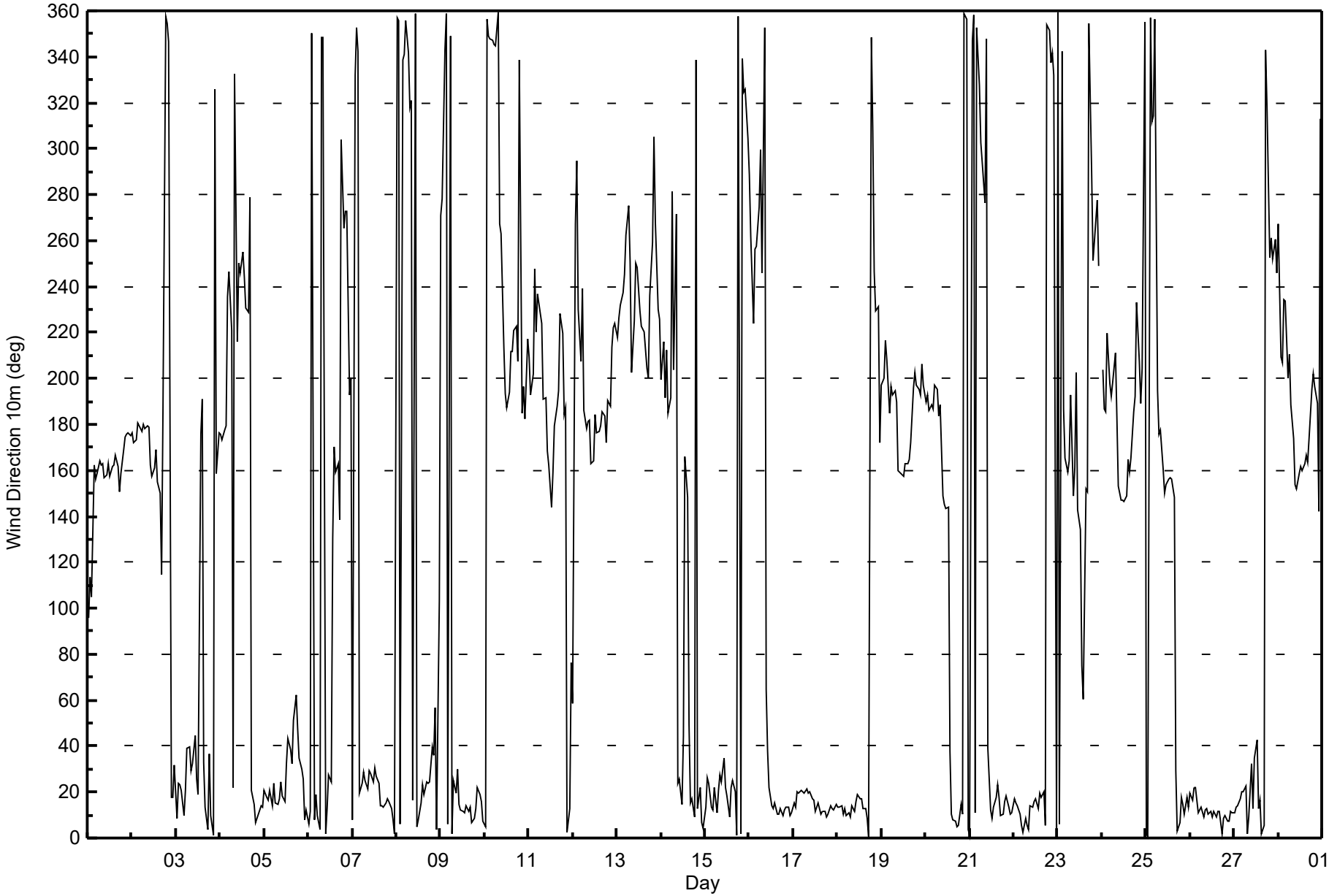
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Fort McKay South - February 2026



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS14
ANZAC
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - ANZAC (AMS14)
FEBRUARY 2026

MONTHLY SUMMARY for
AMD SECTION III.B.1(c)

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-Min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2(ppb) Average	639	32	33	99.85	-	-	15	0	3	0
TRS(ppb) Average	631	35	41	99.11	3.7	0	3.1	-	0.7	-
THC(ppm) Average	639	32	33	99.85	-	-	2.3	-	2.1	-
NMHC(ppm) Average	639	32	33	99.85	-	-	0.014	-	0.001	-
CH4(ppm) Average	639	32	33	99.85	-	-	2.3	-	2.1	-
NO2(ppb) Average	638	33	34	99.85	-	-	32.1	0	10	-
NO(ppb) Average	638	33	34	99.85	-	-	21.9	-	5.1	-
NOX(ppb) Average	638	33	34	99.85	-	-	54	-	13.1	-
O3(ppb) Average	638	31	34	99.55	-	-	46.2	0	43.3	-
PM2.5(ug/m3) Average	672	0	0	100	-	-	13	0	7.2	0
AT 2m(C) Average	672	0	0	100	-	-	9	-	4	-
RH(%) Average	672	0	0	100	-	-	99.2	-	92.3	-
WS(km/h) Average	651	0	21	96.88	-	-	29	-	18	-
WD(deg) Average	651	0	21	96.88	-	-	-	-	-	-
Leaf Wetness (% of range) Average	672	0	0	100	-	-	11.4	-	10.3	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - ANZAC (AMS14)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2(ppb) Average	639	0.85	1.5	-	0	0.1	0.2	0.3	0.8	2.2	15
TRS(ppb) Average	631	0.24	0.2	-	0.1	0.1	0.2	0.2	0.3	0.4	3.1
THC(ppm) Average	639	2.03	0	-	1.9	2	2	2	2	2.1	2.3
NMHC (ppm) Average	639	0	0.001	-	0	0	0	0	0	0	0.014
CH4(ppm) Average	639	2.03	0	-	1.9	2	2	2	2	2.1	2.3
NO2(ppb) Average	638	4.25	4.3	-	0.2	0.7	1.3	2.9	5.5	9.3	32.1
NO(ppb) Average	638	1.13	2.4	-	0	0	0	0.2	1.2	3	21.9
NOX(ppb) Average	638	5.38	5.8	-	0.2	0.8	1.6	3.6	7	12	54
O3(ppb) Average	638	25.53	10.1	-	0	11.8	20	25.6	31.9	39	46.2
PM2.5(ug/m3) Average	672	3.47	1.9	-	0.3	1.7	2.2	2.9	4.4	6.2	13
Temperature 2 m (C) Average	672	-13.52	10.5	-	-39.6	-27.9	-21.2	-12.6	-6.1	0.8	9
Relative Humidity (%) Average	672	76.05	13.7	-	34.6	56.1	68.3	77	88.1	91.3	99.2
Wind Speed 20 m (km/h) Average	651	10.1	6	-	0	4	6	9	13	18	29
Wind Direction 20 m (deg) Average	651	246.8	-	-	-	-	-	-	-	-	-
Leaf Wetness (% of range) Average	672	2.09	4.1	-	0	0	0	0	0.5	10.2	11.4

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - ANZAC (AMS14)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
NO2, O3, SO2, THC, TRS	20 Feb 2026 12:00	20 Feb 2026 12:00	1	Maintenance - sample manifold cleaned
TRS	13 Feb 2026 12:00	13 Feb 2026 12:00	1	Maintenance - reinitiated daily QA check
TRS	18 Feb 2026 11:00	18 Feb 2026 12:00	2	Maintenance - reinitiated daily QA check
TRS	24 Feb 2026 11:00	24 Feb 2026 12:00	2	Maintenance - reinitiated daily QA check
O3	20 Feb 2026 12:00	20 Feb 2026 12:00	1	Maintenance - reinitiated daily QA check
O3	21 Feb 2026 09:00	21 Feb 2026 09:00	1	Maintenance - reinitiated daily QA check
O3	23 Feb 2026 12:00	23 Feb 2026 12:00	1	Maintenance - reinitiated daily QA check
Wind Speed, Wind Direction	05 Feb 2026 09:00	05 Feb 2026 12:00	4	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	05 Feb 2026 13:00	05 Feb 2026 15:00	3	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	09 Feb 2026 21:00	10 Feb 2026 06:00	10	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	05 Feb 2026 13:00	05 Feb 2026 15:00	3	Maintenance - tower lowered to de-ice sensor

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Anzac - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 15.0 ppb on Feb 15 17:00 Maximum Daily Average: 3.0 ppb on Feb 15

Minimum Value: 0.0 ppb on Feb 10 00:00 Minimum Daily Average: 0.1 ppb on Feb 17
Maximum Diurnal Average: 1.5 ppb at hour 19 Minimum Diurnal Average: 0.5 ppb at hour 8
Monthly Average: 0.85 ppb Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.2 Median = 0.3 Q_3 = 0.8 P_{90} = 2.2 P_{99} = 6.8

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.4	0.4	0.4	0.2	0.4	0.9	2.6	2.5	2.4	2.1	0.1	0.5	0.6	2.1	2.5	1.3	0.2	6.5	4.1	5.7	3.6	3.5	3.6	2.0	6.5
2-Feb	3.2	Z	2.0	0.5	0.4	0.7	0.9	1.0	1.1	1.1	0.8	C	C	C	C	0.6	0.3	0.1	0.0	0.0	0.1	0.0	0.5	9.9	1.2	9.9
3-Feb	5.0	0.6	Z	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.4	0.7	0.5	1.1	0.9	1.2	1.0	0.4	0.4	0.4	0.5	0.4	0.6	0.7	5.0
4-Feb	0.7	0.8	0.7	Z	0.5	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.1	0.3	0.2	0.3	0.4	1.1
5-Feb	0.3	0.2	0.2	0.2	Z	0.2	0.1	0.1	0.2	0.1	0.1	0.0	0.2	3.3	3.6	3.0	2.3	3.1	8.9	5.3	4.2	3.5	1.6	1.3	1.8	8.9
6-Feb	0.9	0.7	4.0	3.3	1.9	Z	0.8	1.4	3.2	1.9	2.2	0.9	1.0	1.5	2.4	0.6	1.1	0.5	0.3	1.9	1.7	0.2	0.2	0.3	1.4	4.0
7-Feb	Z	0.4	0.4	0.6	0.5	0.4	0.3	0.3	0.3	0.5	0.6	0.4	0.4	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.5	0.1	0.3	0.6
8-Feb	0.2	Z	0.5	0.3	0.2	0.8	0.2	0.3	0.3	0.4	0.5	0.9	0.6	0.7	0.7	1.9	6.1	6.9	7.6	4.4	4.5	5.2	4.1	4.7	2.2	7.6
9-Feb	2.3	2.8	Z	3.8	3.4	2.4	1.8	1.6	1.3	1.3	2.0	0.4	0.8	1.1	0.7	0.3	0.3	0.5	0.5	0.4	0.5	0.1	0.1	0.0	1.2	3.8
10-Feb	0.0	0.1	0.1	Z	0.4	1.4	2.8	0.6	0.2	1.3	2.2	3.3	4.3	5.7	3.2	0.6	0.7	0.7	0.5	0.4	0.2	0.3	0.2	0.2	1.3	5.7
11-Feb	0.3	0.3	0.3	0.3	Z	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.4	0.3	0.4	0.5
12-Feb	0.3	0.2	0.2	0.2	0.1	Z	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.1	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.3
13-Feb	Z	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.2	0.3
14-Feb	0.2	Z	0.4	0.3	0.4	0.2	0.1	0.2	0.2	0.2	0.4	0.6	0.4	0.2	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.6
15-Feb	0.1	0.0	Z	6.6	4.2	2.7	0.1	0.1	0.0	0.1	0.1	1.0	2.0	0.8	0.5	10.5	15.0	9.2	6.8	5.9	2.3	0.6	0.2	0.2	3.0	15.0
16-Feb	0.1	0.2	0.1	Z	0.1	0.2	0.1	0.0	0.1	0.2	0.1	0.1	0.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8
17-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1
18-Feb	0.0	0.1	0.0	0.1	0.0	Z	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.1	0.2	1.9	2.1	1.8	1.5	2.1	0.5	2.1
19-Feb	Z	1.8	1.6	1.5	1.6	1.6	1.3	1.3	0.8	0.6	0.3	0.2	0.1	0.2	0.5	0.4	0.4	2.0	1.6	0.8	0.2	0.1	0.2	0.4	0.8	2.0
20-Feb	0.3	Z	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.4	0.7	M	0.9	1.1	1.3	0.8	0.9	0.7	0.9	1.9	1.4	2.3	1.0	0.5	0.8	2.3
21-Feb	0.7	1.1	Z	1.4	1.4	1.1	1.1	0.8	0.7	0.6	0.5	0.3	0.3	0.4	0.4	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.5	1.4
22-Feb	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.2
23-Feb	0.0	0.1	1.7	0.5	Z	0.0	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	1.7
24-Feb	0.2	0.2	0.2	0.2	0.1	Z	0.2	0.2	0.2	0.6	0.6	0.8	0.4	0.5	0.5	0.5	0.4	0.2	0.2	0.5	0.6	0.5	0.6	0.9	0.4	0.9
25-Feb	Z	0.7	1.0	1.4	1.5	0.7	0.4	0.3	0.4	0.4	0.5	0.6	0.7	1.1	2.5	3.4	2.3	1.4	1.1	0.9	0.8	0.8	0.7	0.5	1.1	3.4
26-Feb	0.4	Z	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	1.7	3.0	1.0	1.7	0.5	0.2	0.0	0.0	0.0	0.7	0.1	0.6	3.0
27-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	3.3	1.4	3.7	3.2	3.4	4.1	2.4	1.7	1.2	1.4	1.8	1.1	1.3	4.1
28-Feb	1.1	1.0	0.9	Z	0.6	0.6	0.6	0.5	0.9	0.7	0.5	0.4	0.8	0.5	0.4	0.5	0.6	0.7	0.6	0.7	1.4	1.6	1.3	1.1	0.8	1.6
	0.7	0.5	0.7	1.0	0.8	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.7	0.8	1.0	1.2	1.4	1.2	1.5	1.2	1.1	0.9	0.7	1.0	Diurnal Average	
	5.0	2.8	4.0	6.6	4.2	2.7	2.8	2.6	3.2	2.4	2.2	3.3	4.3	5.7	3.7	10.5	15.0	9.2	8.9	5.9	5.7	5.2	4.1	9.9	Diurnal Maximum	

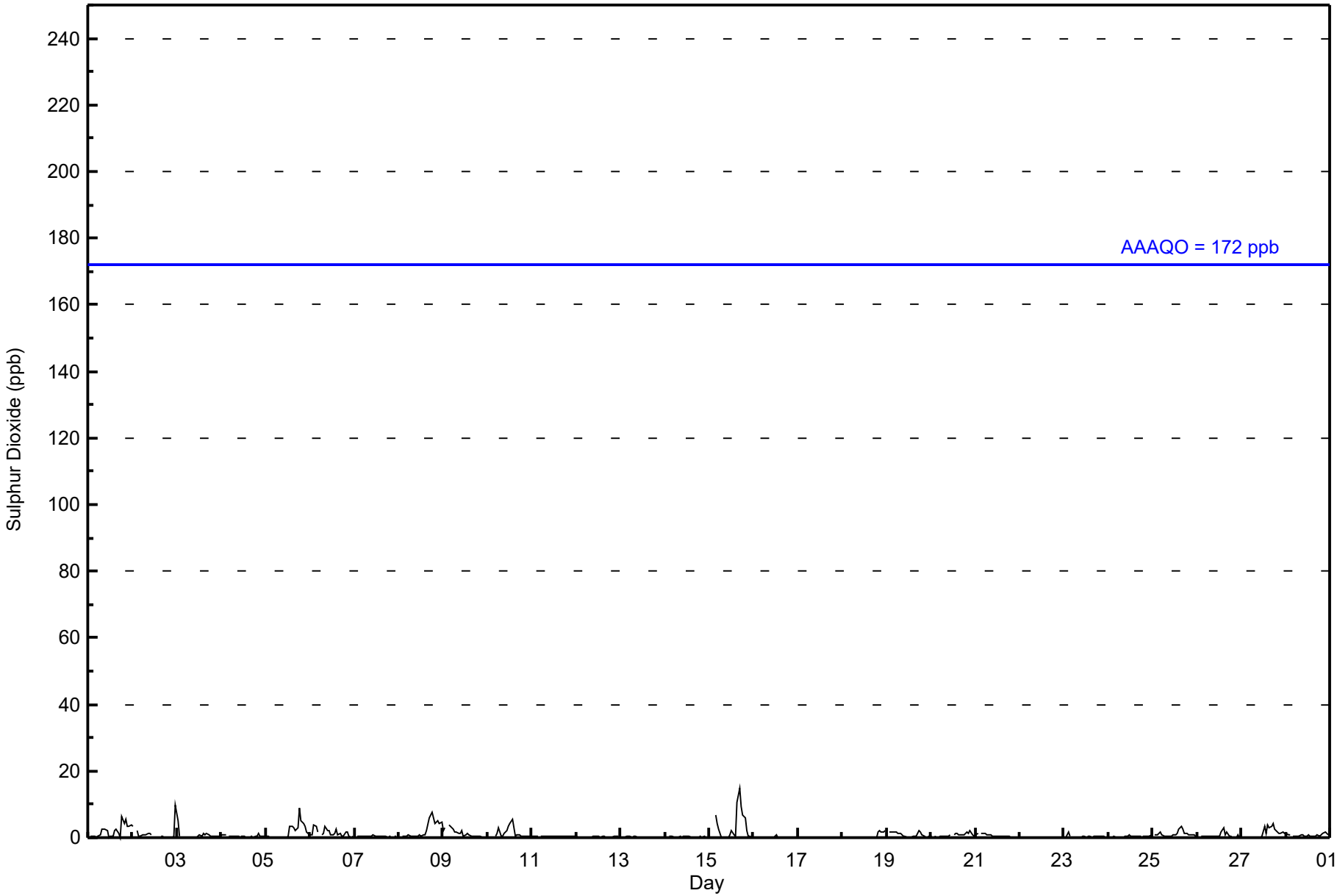
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Anzac - February 2026



Sulphur Dioxide (SO_2) - ppb

Anzac - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	637	99.69	99.69
11 - 20	2	0.31	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Anzac - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	33	18	15	17	20	41	75	39	20	24	23	37	54	76	68	57	617
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	18	15	17	20	41	75	39	20	24	23	37	54	76	69	58	619

Total Number of Valid Hours: 619

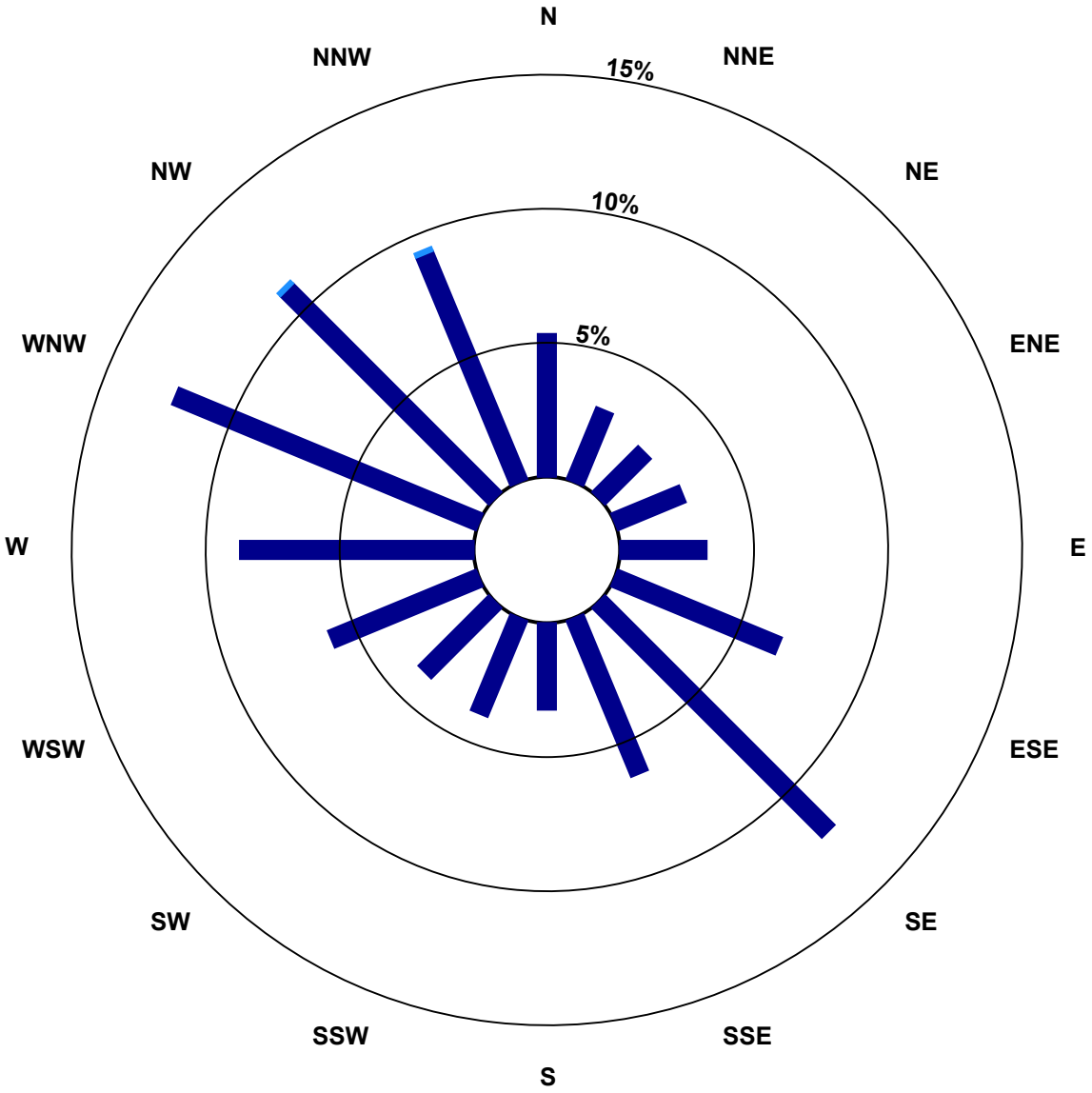
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Anzac



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

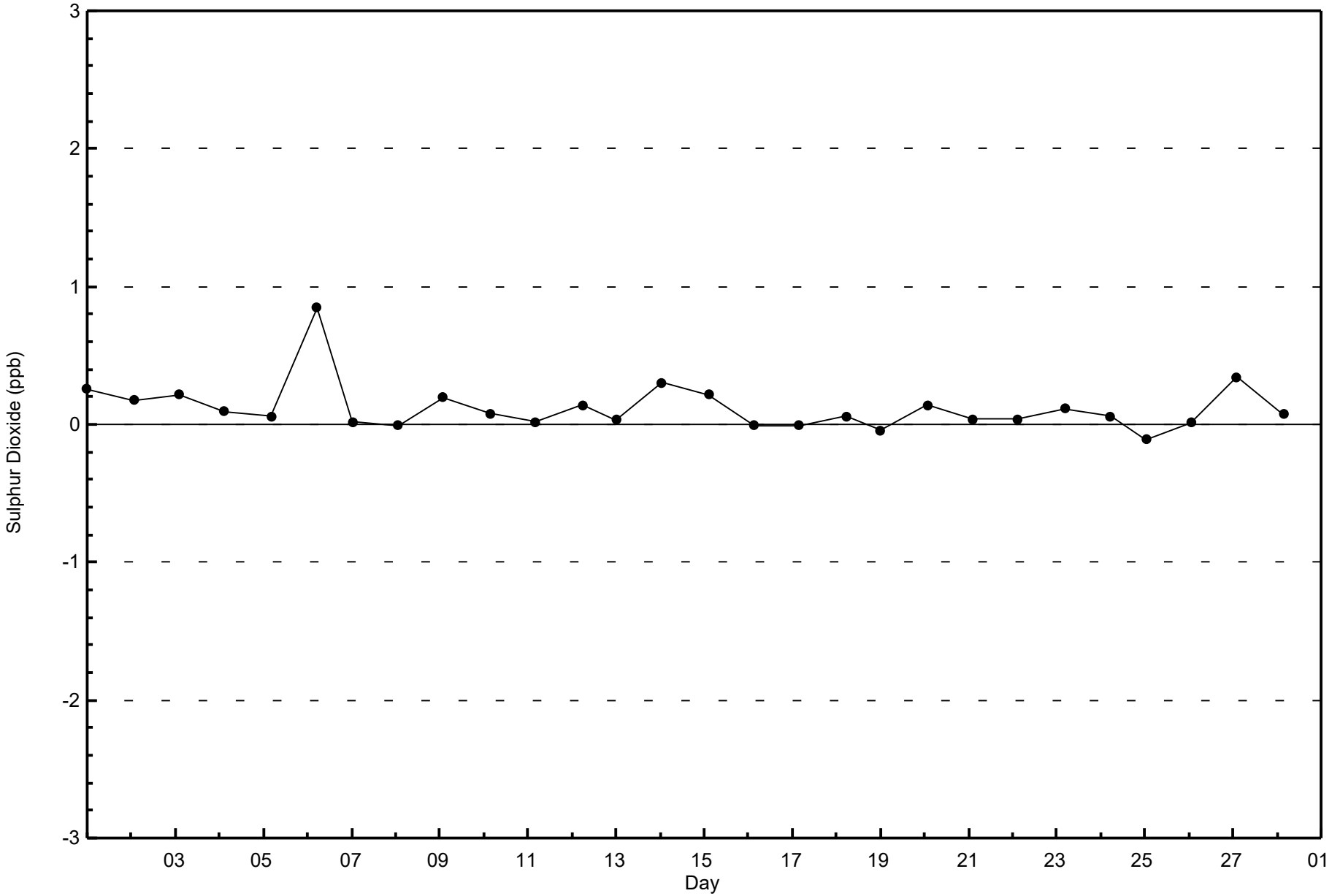
Total Number of Valid Hours: 619

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Anzac - February 2026

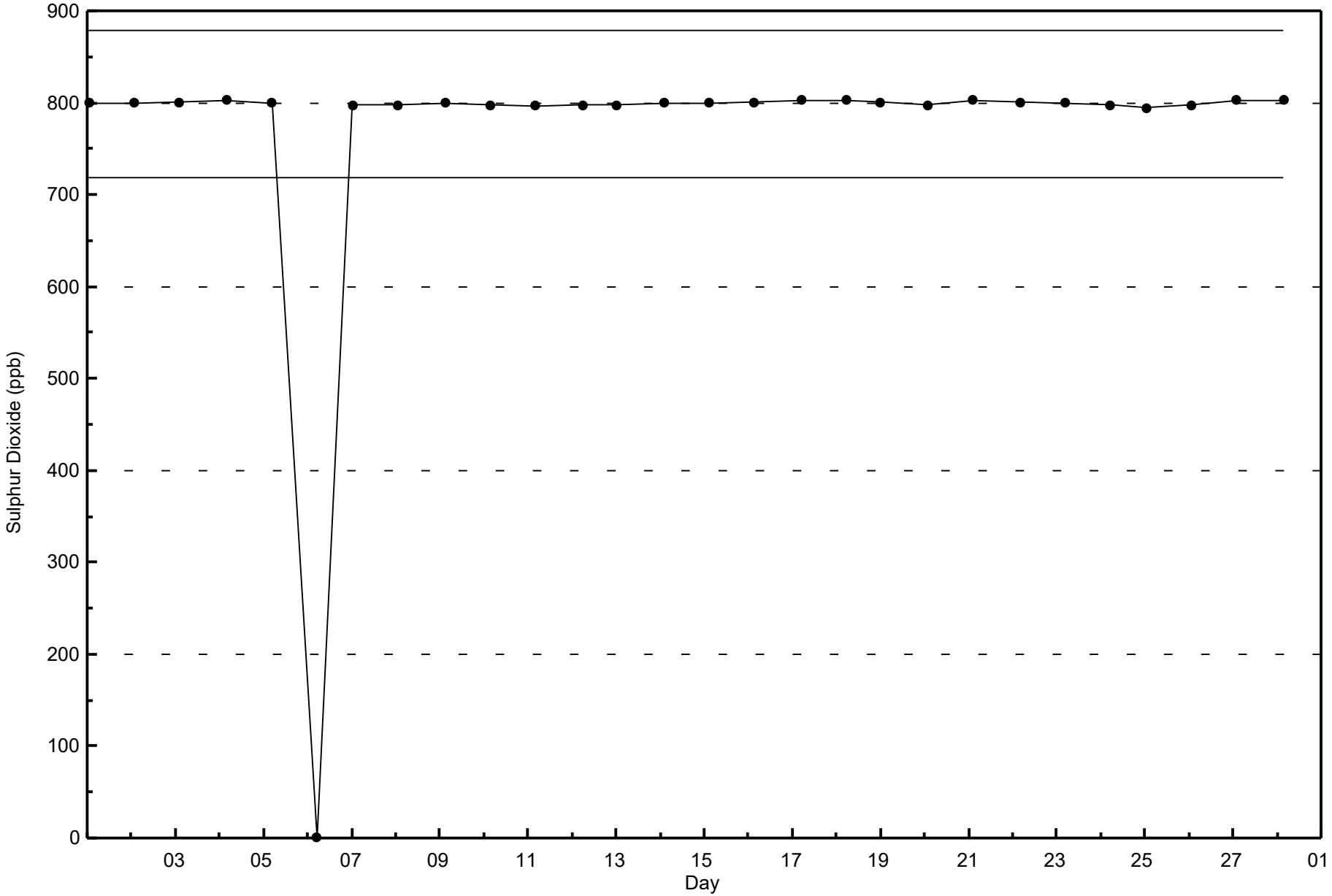


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Anzac - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Anzac - February 2026

Number of Exceedences (AAAQG): 30-Min: 0

Maximum Value: 3.7 ppb on Feb 25 15:00

Maximum Daily Average: 0.7 ppb on Feb 25

Minimum Value: 0.1 ppb on Feb 17 22:30

Minimum Daily Average: 0.1 ppb on Feb 17

Maximum Diurnal Average: 0.3 ppb at hour 15

Minimum Diurnal Average: 0.2 ppb at hour 11

Monthly Average: 0.24 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.2 Median = 0.2 Q_3 = 0.3 P_{90} = 0.4 P_{99} = 0.8

Periods in Service:	1344
Periods of Valid Data:	1260
Periods of Invalid Data:	84
Periods of Calibration:	71
Percent Operational Time:	99.0

Period Ending At (MST)

Day	00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.1	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.4
	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.3	0.3		
2-Feb	0.3	0.3	Z	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.6
	0.3	0.3	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6		
3-Feb	0.4	0.3	0.3	Z	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.4	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.5
	0.3	0.3	0.3	SP	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1		
4-Feb	0.1	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	1.1
	0.1	0.1	0.1	0.1	SP	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2		
5-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.3	0.3	0.2	PF	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.4	0.6	0.4	0.2	0.3	0.7
	0.2	0.2	0.2	0.2	0.3	SP	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.7	0.5	0.2	0.3		
6-Feb	Z	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.5	0.2	0.2	0.3	0.3	0.5
	SP	0.2	0.3	0.4	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.5		
7-Feb	0.7	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.4	0.2	0.3	0.7
	0.7	SP	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.2		
8-Feb	0.3	0.2	Z	0.3	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.6	0.5	0.4	0.3	0.3	0.6	0.6	0.6	0.4	0.3	0.4	0.6	0.6	0.4	0.6
	0.4	0.2	SP	0.3	0.2	0.3	0.2	0.4	0.4	0.4	0.5	0.6	0.4	0.3	0.3	0.6	0.6	0.6	0.4	0.4	0.4	0.5	0.5	0.5		
9-Feb	0.5	0.5	0.5	Z	0.6	0.5	0.4	0.4	0.5	0.3	0.5	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.6
	0.5	0.5	0.5	SP	0.5	0.4	0.4	0.6	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2		
10-Feb	0.2	0.2	0.2	0.2	Z	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.5	0.6	0.4	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.6
	0.2	0.2	0.2	0.2	SP	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1		
11-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.7
	0.2	0.2	0.2	0.2	0.2	SP	0.3	0.2	0.2	0.2	0.2	0.2	0.2	1.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
12-Feb	Z	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	C	C	C	C	C	C	C	C	0.2	0.1	0.1	0.1	--	0.3
	SP	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	C	C	C	C	C	C	C	0.3	0.2	0.1	0.1	0.1		
13-Feb	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	M	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.4
	0.1	SP	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	M	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.4	0.4		
14-Feb	0.4	0.3	Z	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.5
	0.5	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2		
15-Feb	0.1	0.1	0.6	Z	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.5	0.4	0.2	0.2	0.2	0.3	0.7
	0.1	0.1	0.7	SP	0.6	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.3	0.5	0.5	0.3	0.2	0.1	0.1		

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Anzac - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	0.2	0.1	0.2	0.2	Z	0.4	0.2	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.4
	0.2	0.2	0.2	0.2	SP	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
17-Feb	0.1	0.1	0.1	0.1	0.2	Z	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
	0.1	0.1	0.1	0.2	0.2	SP	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
18-Feb	Z	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	M	M	0.3	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.5
	SP	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	M	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3		
19-Feb	0.3	Z	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.8
	0.3	SP	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.2	0.3	0.2	0.2	0.2	0.2		
20-Feb	0.2	0.1	Z	0.6	0.2	0.5	0.2	0.2	0.3	0.2	0.2	M	M	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.6
	0.1	0.2	SP	0.3	0.1	0.3	0.2	0.3	0.2	0.2	M	M	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.3	0.2	0.4	0.4	0.3		
21-Feb	0.3	0.3	0.2	Z	0.5	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5
	0.3	0.2	0.2	SP	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1		
22-Feb	0.1	0.1	0.1	0.1	Z	0.3	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.3
	0.1	0.1	0.1	0.1	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1		
23-Feb	0.1	0.1	0.5	0.2	0.4	Z	0.4	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.3	0.2	0.6
	0.1	0.1	0.2	0.3	0.3	SP	0.2	0.2	0.6	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2		
24-Feb	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	M	M	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.8	0.4	0.2	0.2	0.3	0.8
	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	M	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.7	0.6	0.2	0.2	0.2		
25-Feb	0.2	Z	0.6	0.4	0.8	0.4	0.3	0.2	0.2	0.6	0.2	0.2	0.2	0.3	2.5	3.6	1.9	0.7	0.6	0.5	0.6	0.4	0.5	0.3	0.7	3.7
	0.9	SP	0.5	0.5	0.6	0.2	0.3	0.2	0.3	0.4	0.2	0.2	0.2	1.7	3.7	2.6	1.0	0.6	0.5	0.6	0.4	0.4	0.5	0.2		
26-Feb	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.3
	0.2	0.2	SP	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
27-Feb	0.1	0.1	0.1	Z	0.3	0.2	0.1	0.8	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.2	0.8
	0.1	0.1	0.1	SP	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.3	0.4		
28-Feb	0.5	0.4	0.3	0.2	Z	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
	0.3	0.3	0.2	0.2	SP	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Diurnal Average	
	0.9	0.5	0.8	0.6	0.8	0.5	0.4	0.8	0.6	0.6	0.5	0.6	0.5	1.7	3.7	3.6	1.9	0.7	0.6	0.7	0.8	0.6	0.6	0.6	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance PF - Power Failure SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Anzac - February 2026

Maximum Value: 3.1 ppb on Feb 25 16:00

Maximum Daily Average: 0.7 ppb on Feb 25

Minimum Value: 0.1 ppb on Feb 17 23:00

Minimum Daily Average: 0.1 ppb on Feb 17

Maximum Diurnal Average: 0.3 ppb at hour 15

Minimum Diurnal Average: 0.2 ppb at hour 12

Monthly Average: 0.24 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.2 Median = 0.2 Q_3 = 0.3 P_{90} = 0.4 P_{99} = 0.7

Hours in Service:	672
Hours of Data:	631
Hours of Missing Data:	41
Hours of Calibration:	35
Percent Operational Time:	99.1

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3
2-Feb	0.3	0.3	Z	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.5
3-Feb	0.4	0.3	0.3	Z	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.4
4-Feb	0.1	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.6
5-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.5	0.6	0.3	0.2	0.3	0.6
6-Feb	Z	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.4	0.3	0.4
7-Feb	0.7	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.4	0.2	0.3	0.7
8-Feb	0.3	0.2	Z	0.3	0.2	0.3	0.2	0.4	0.4	0.4	0.4	0.6	0.5	0.4	0.3	0.5	0.6	0.6	0.5	0.4	0.3	0.5	0.5	0.5	0.4	0.6
9-Feb	0.5	0.5	0.5	Z	0.6	0.5	0.4	0.5	0.5	0.3	0.4	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.6
10-Feb	0.2	0.2	0.2	0.2	Z	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4
11-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.9
12-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	C	C	C	C	C	C	C	0.3	0.2	0.1	0.1	0.1	--	0.3
13-Feb	0.1	Z	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	M	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3
14-Feb	0.5	0.3	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.5
15-Feb	0.1	0.1	0.6	Z	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.5	0.3	0.2	0.2	0.2	0.3	0.7
16-Feb	0.2	0.2	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
17-Feb	0.1	0.1	0.1	0.2	0.2	Z	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
18-Feb	Z	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	M	M	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3
19-Feb	0.3	Z	0.6	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.6
20-Feb	0.1	0.2	Z	0.4	0.2	0.4	0.2	0.2	0.3	0.2	0.2	M	0.4	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.4	0.4	0.3	0.2	0.4
21-Feb	0.3	0.2	0.2	Z	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
22-Feb	0.1	0.1	0.1	0.1	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.3
23-Feb	0.1	0.1	0.4	0.2	0.4	Z	0.3	0.2	0.5	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.3	0.3	0.2	0.3	0.2	0.5
24-Feb	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	M	M	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7	0.3	0.2	0.2	0.3	0.7
25-Feb	0.6	Z	0.5	0.4	0.7	0.3	0.3	0.2	0.2	0.5	0.2	0.2	0.2	1.0	3.1	3.1	1.4	0.7	0.6	0.5	0.5	0.4	0.5	0.3	0.7	3.1
26-Feb	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.3
27-Feb	0.1	0.1	0.1	Z	0.3	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.5
28-Feb	0.4	0.4	0.3	0.2	Z	0.4	0.3	0.2	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Diurnal Average	
	0.7	0.5	0.6	0.4	0.7	0.5	0.4	0.5	0.5	0.5	0.4	0.6	0.5	1.0	3.1	3.1	1.4	0.7	0.6	0.5	0.7	0.6	0.5	0.5	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

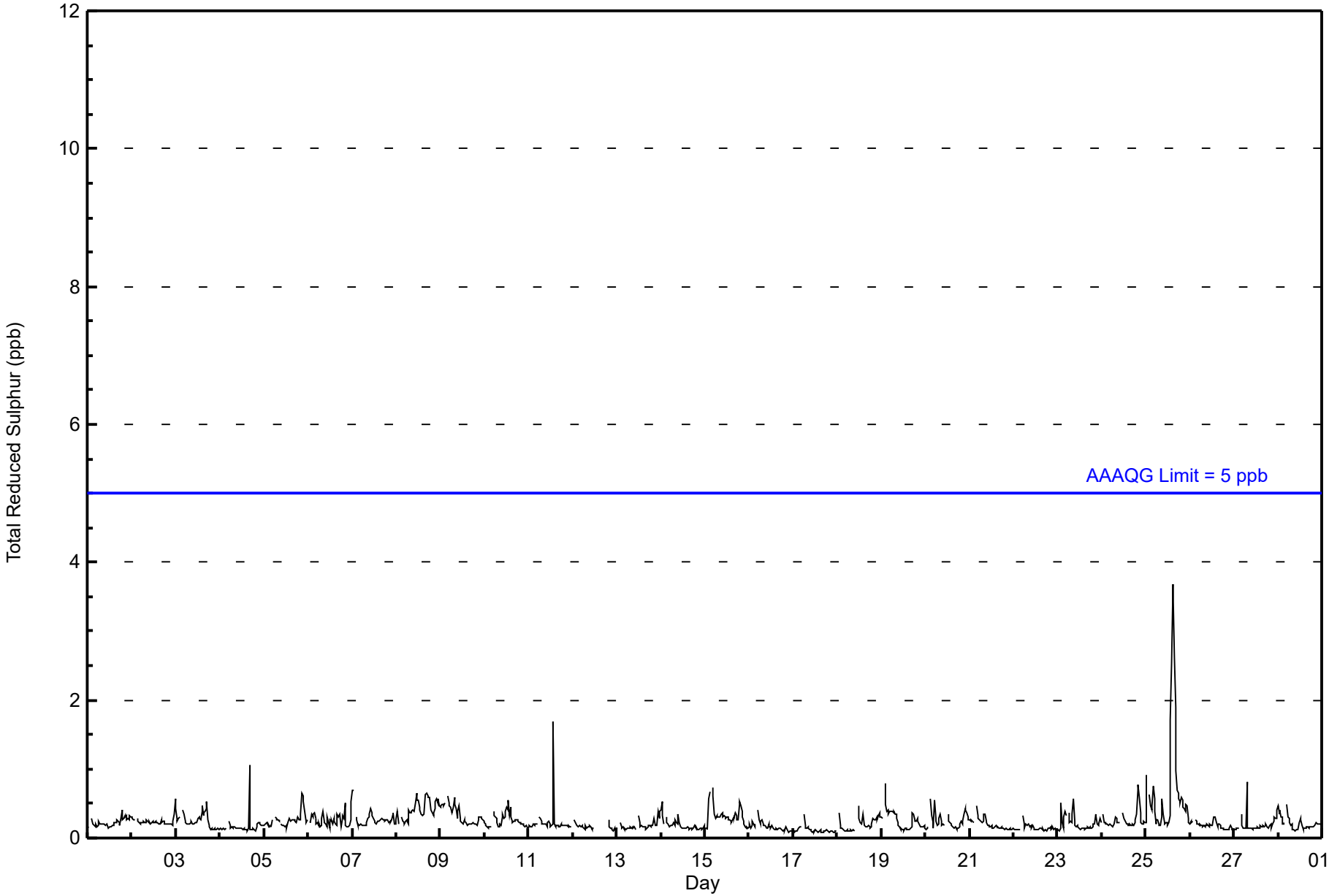
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Anzac - February 2026



Total Reduced Sulphur (TRS) - ppb

Anzac - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	629	99.68	99.68
3 - 4	2	0.32	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 631

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Anzac - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	33	20	13	17	18	41	75	43	23	20	20	35	53	73	64	61	609
3 - 4	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	20	13	17	19	41	76	43	23	20	20	35	53	73	64	61	611

Total Number of Valid Hours: 611

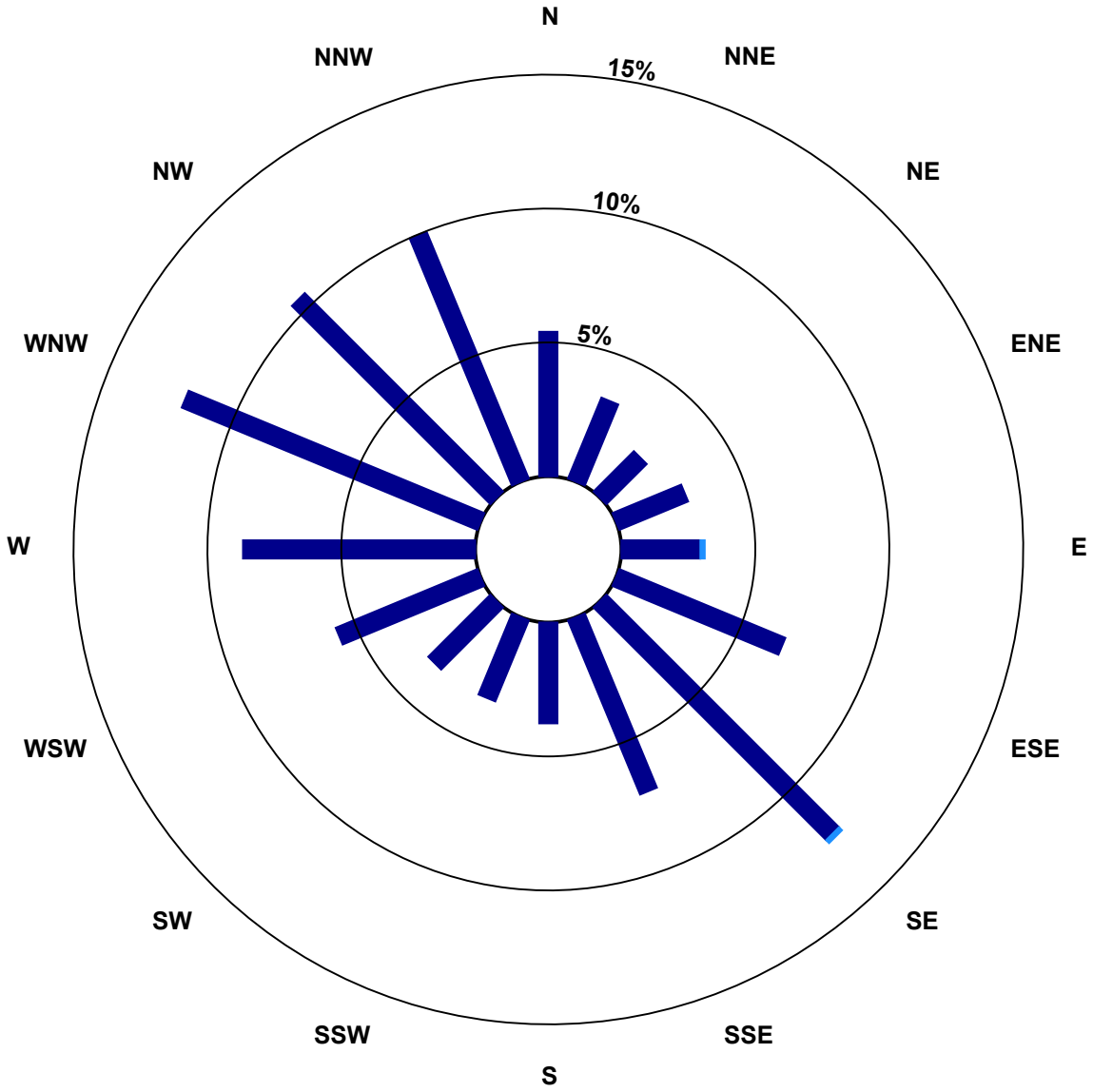
Total Number of Hours: 672

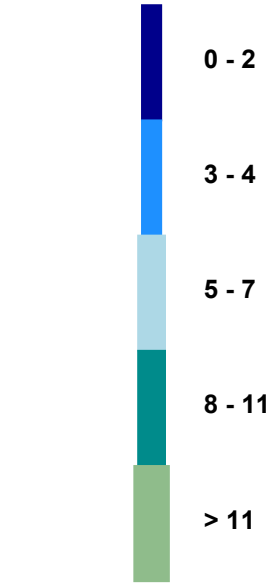
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Anzac





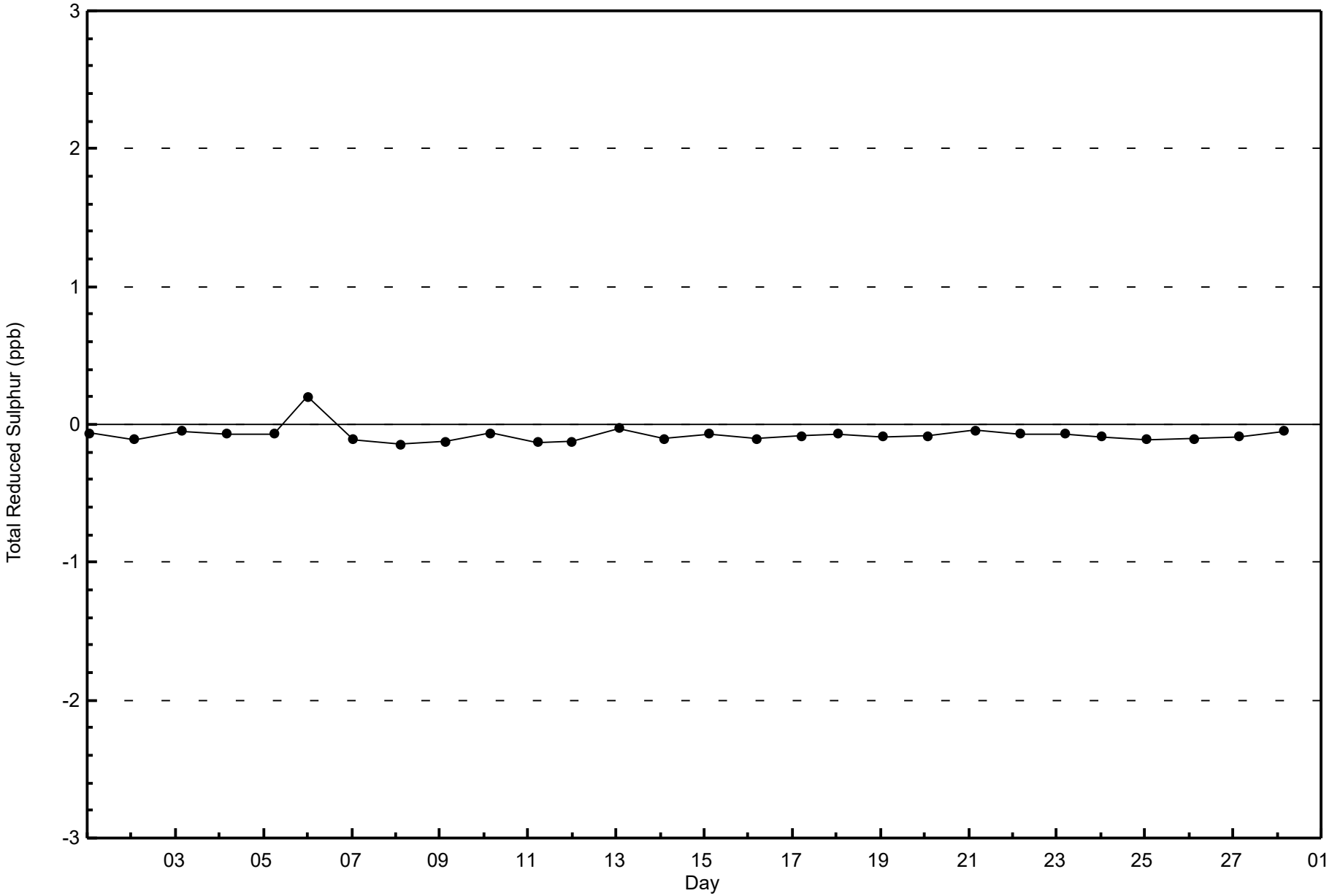
Total Number of Valid Hours: 611

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Anzac - February 2026

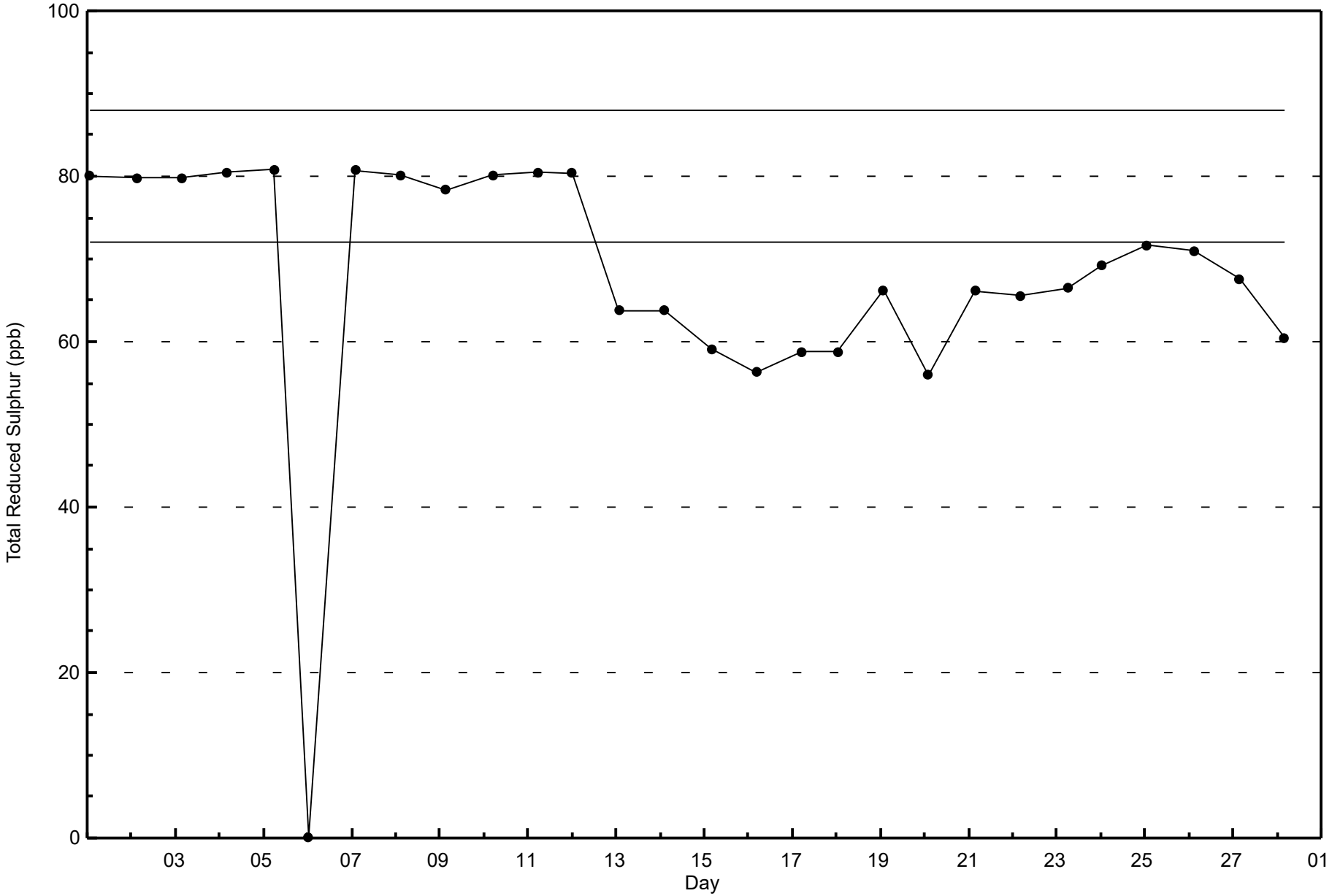


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Anzac - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Anzac - February 2026

Maximum Value: 2.3 ppm on Feb 15 05:00

Maximum Daily Average: 2.1 ppm on Feb 8

Minimum Value: 1.9 ppm on Feb 1 02:00

Minimum Daily Average: 2.0 ppm on Feb 1

Maximum Diurnal Average: 2.0 ppm at hour 9

Minimum Diurnal Average: 2.0 ppm at hour 15

Monthly Average: 2.03 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.0 Median = 2.0 Q_3 = 2.0 P_{90} = 2.1 P_{99} = 2.2

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
2-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	C	C	C	C	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1
3-Feb	2.2	2.2	Z	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2
4-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.1
5-Feb	2.0	2.0	2.0	2.0	Z	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1
6-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
7-Feb	Z	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.2
8-Feb	2.1	Z	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
9-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
10-Feb	2.1	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1
11-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
12-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
13-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
14-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
15-Feb	2.0	2.0	Z	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.3
16-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
17-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
18-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
19-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
20-Feb	2.0	Z	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	M	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.0	2.2
21-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
22-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
23-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.1
24-Feb	2.1	2.0	2.0	2.0	2.1	Z	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1
25-Feb	Z	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
26-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
27-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
28-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1
	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	Diurnal Average	
	2.2	2.2	2.1	2.2	2.3	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	Diurnal Maximum	

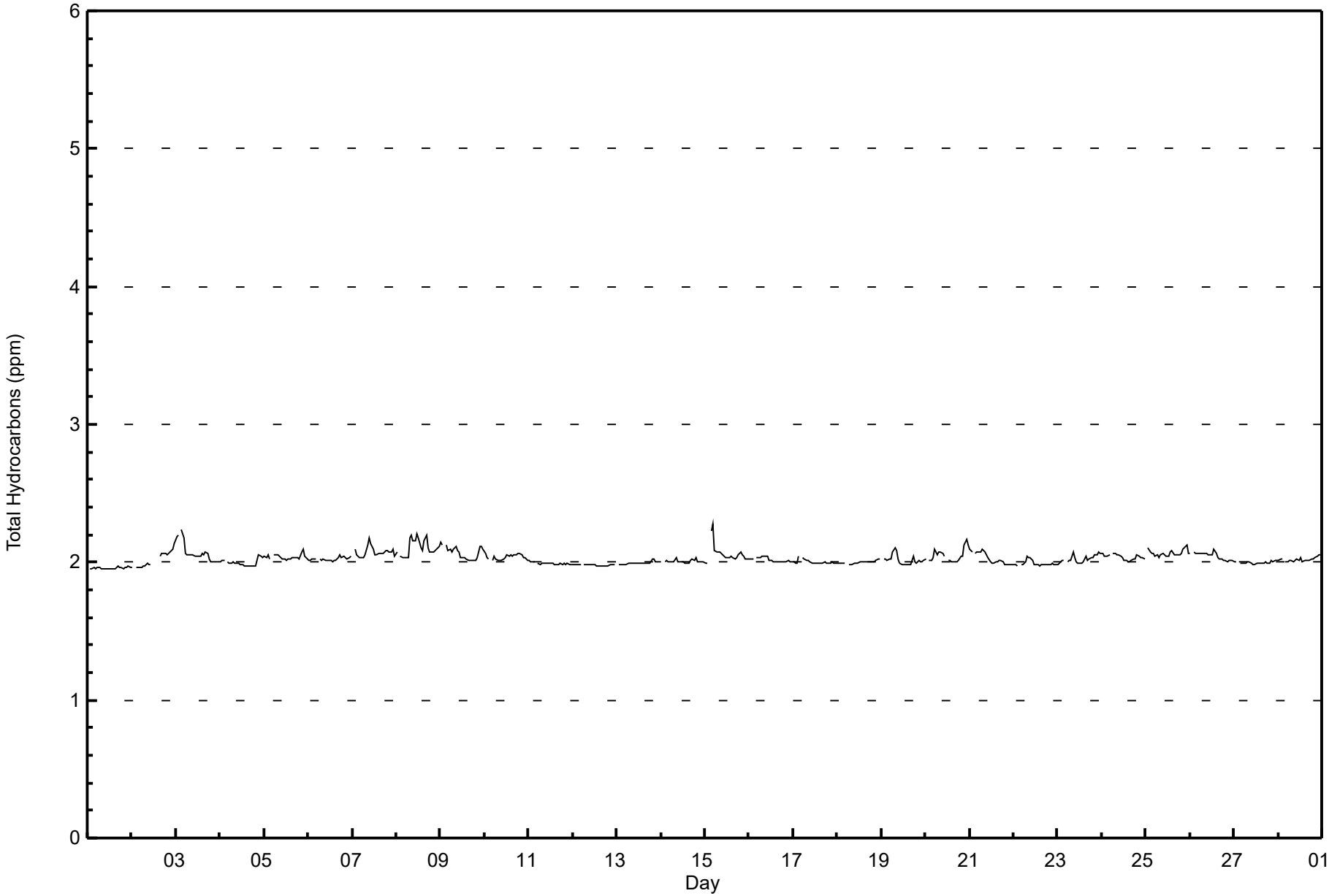
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Anzac - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Total Hydrocarbons (THC) - ppm

Anzac - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	482	75.43	75.43
2.1 - 3.0	157	24.57	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Anzac - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	30	17	13	13	12	27	63	28	15	20	21	34	45	53	40	39	470
2.1 - 3.0	3	1	2	4	8	14	12	11	5	4	2	3	9	23	29	19	149
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	18	15	17	20	41	75	39	20	24	23	37	54	76	69	58	619

Total Number of Valid Hours: 619

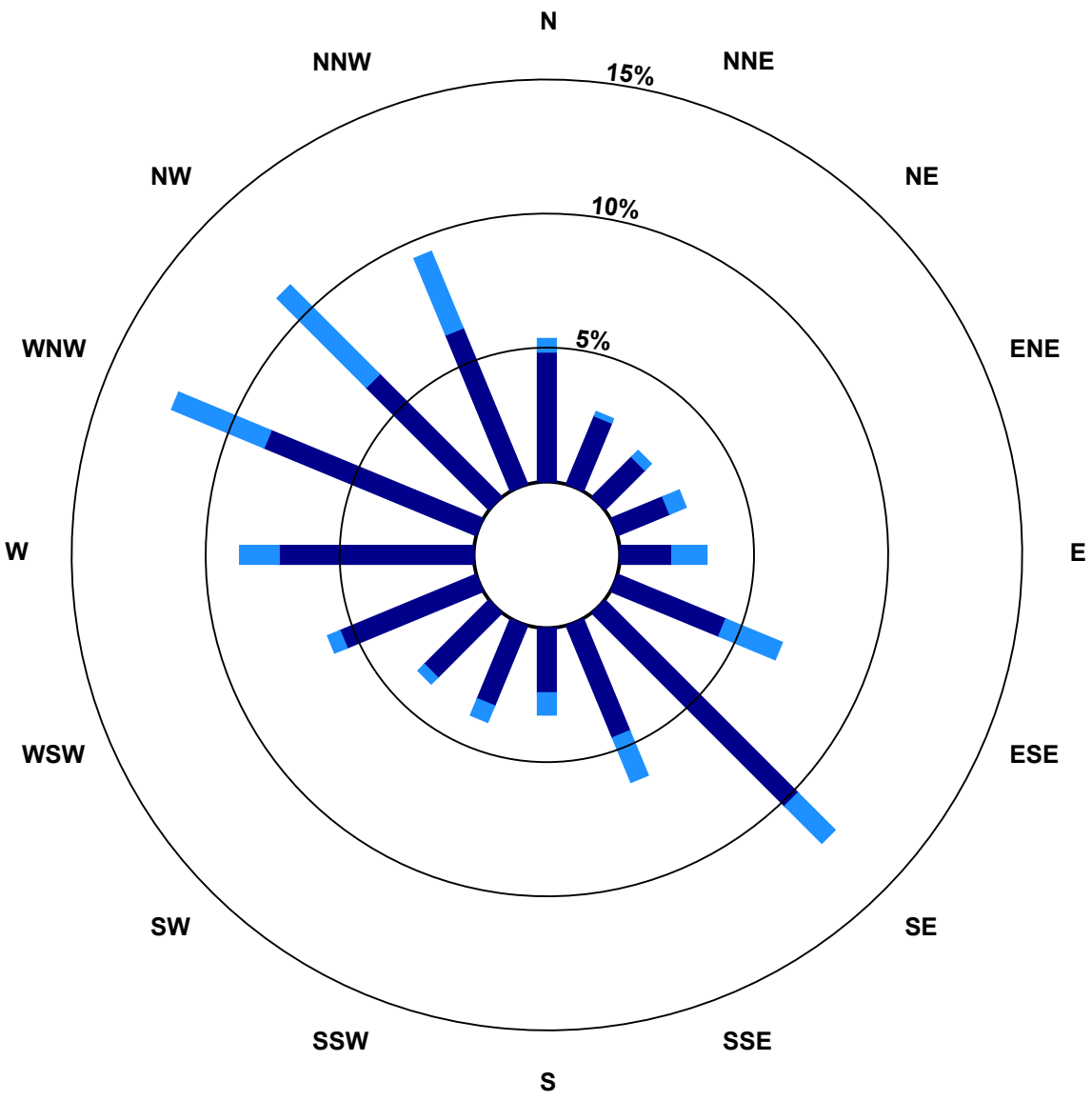
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Anzac



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

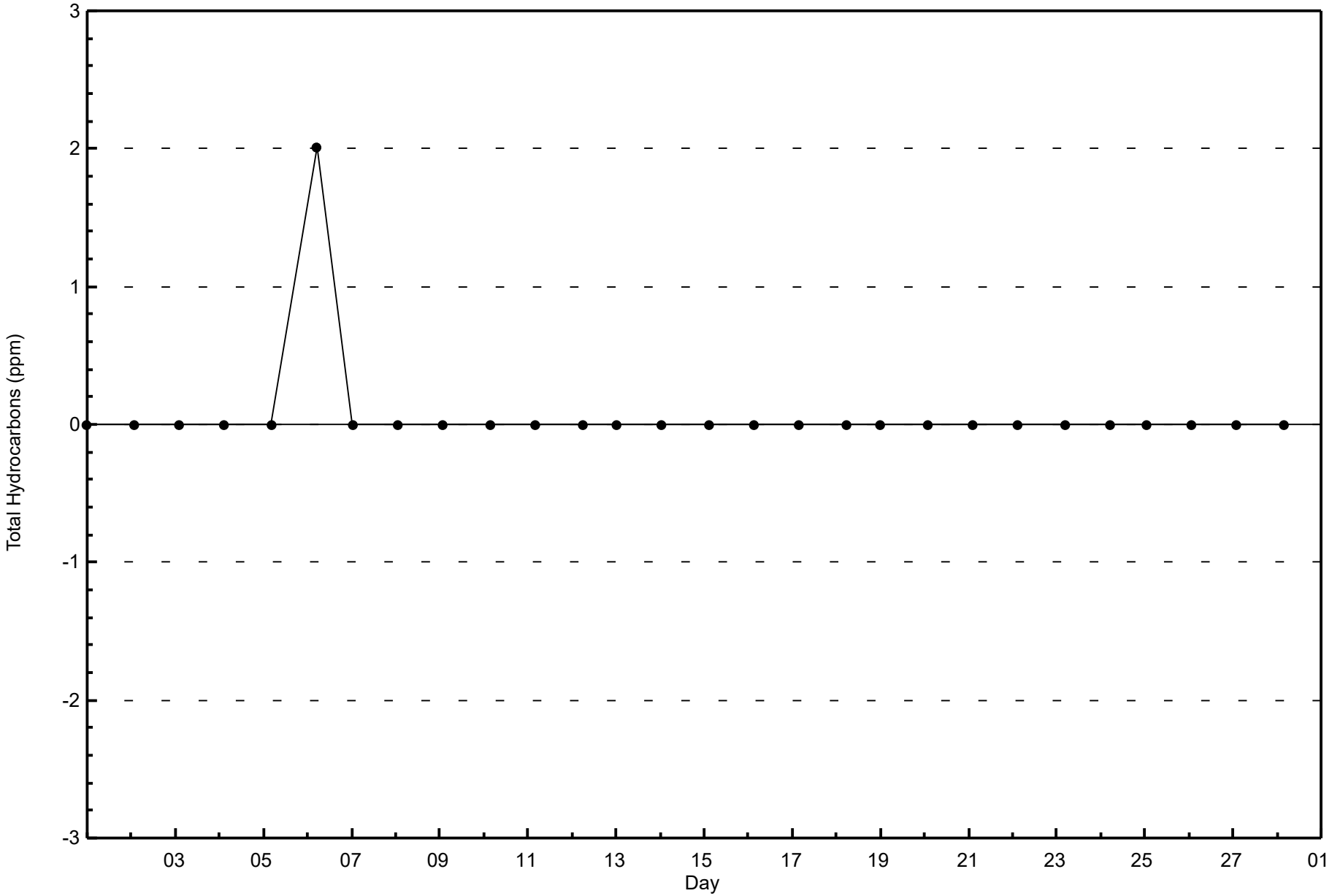
Total Number of Valid Hours: 619

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Anzac - February 2026

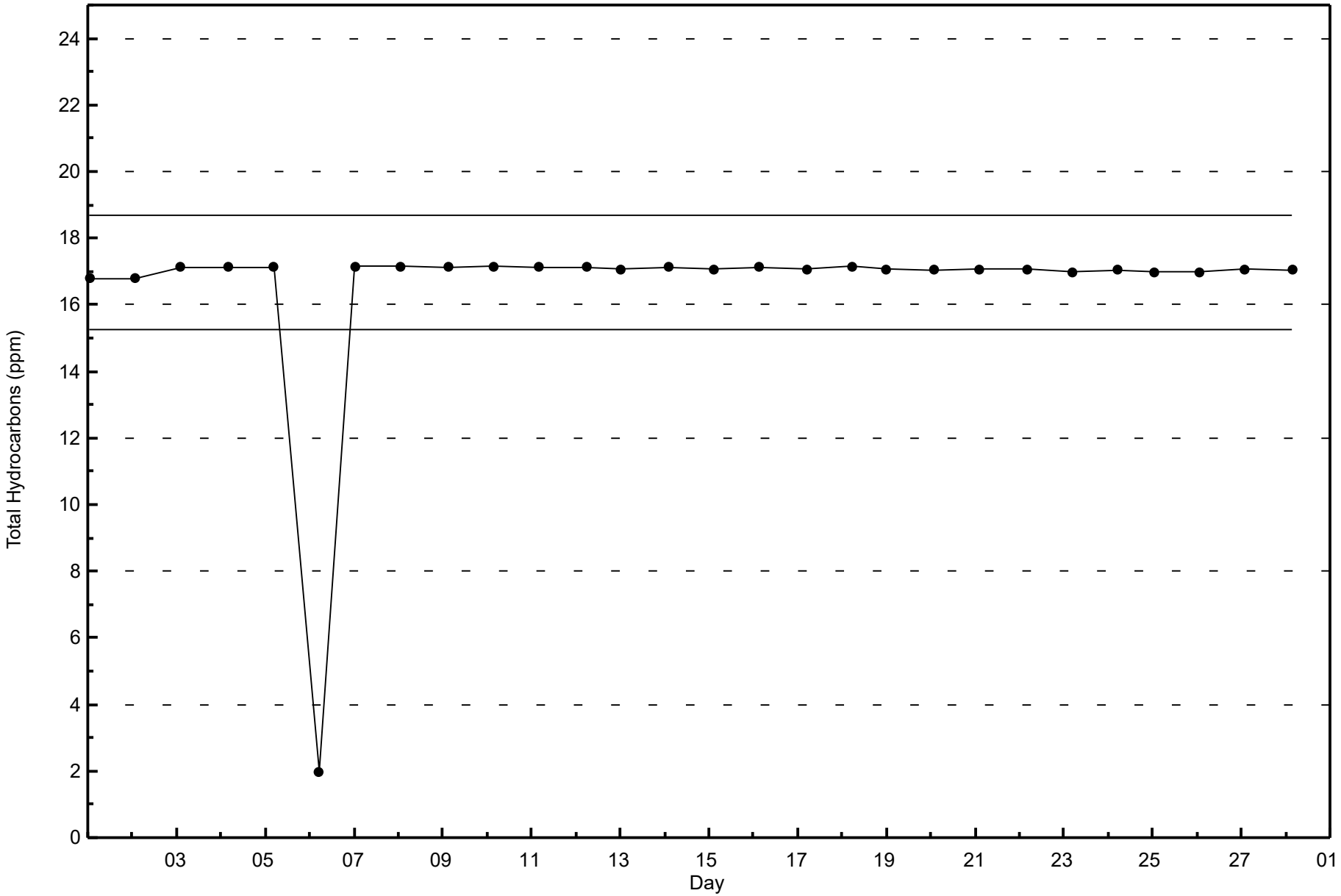


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Anzac - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Anzac - February 2026

Maximum Value: 0.014 ppm on Feb 20 06:00

Maximum Daily Average: 0.001 ppm on Feb 20

Minimum Value: 0.000 ppm on Feb 1 02:00

Minimum Daily Average: 0.000 ppm on Feb 1

Maximum Diurnal Average: 0.001 ppm at hour 6

Minimum Diurnal Average: 0.000 ppm at hour 1

Monthly Average: 0.000 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.0 P_{99} = 0.0

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	C	C	C	C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
14-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
15-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
20-Feb	0.000	Z	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000	0.000	M	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.014
21-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
25-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Diurnal Average	
	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.001	0.000	0.000	0.003	0.000	0.000	0.000	Diurnal Maximum	

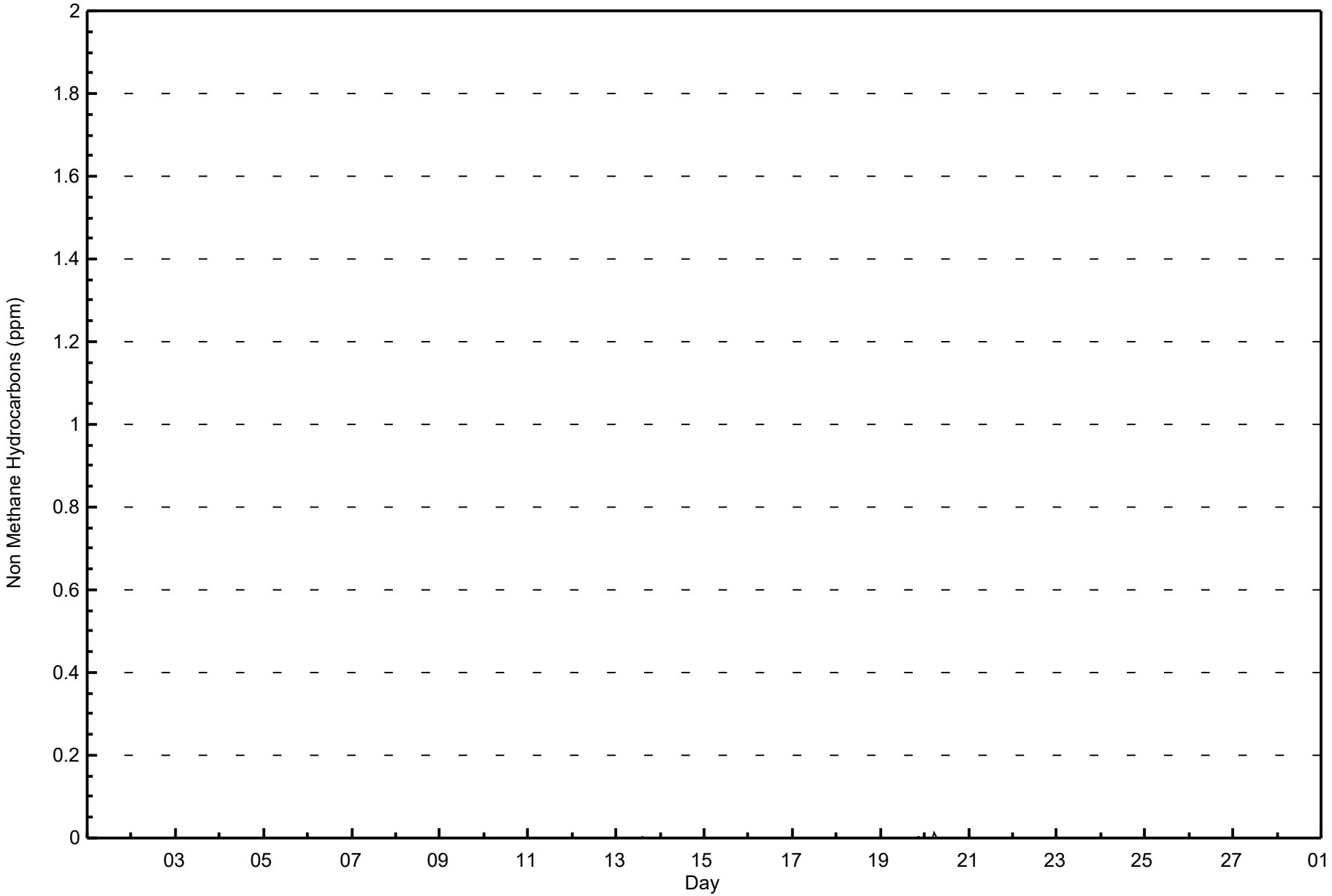
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Anzac - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Anzac - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	638	99.84	99.84
0.006 - 0.05	1	0.16	100.00
0.06 - 0.1	0	0.00	100.00
> 0.1	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Anzac - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	33	18	15	17	20	41	75	39	19	24	23	37	54	76	69	58	618
0.006 - 0.05	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
0.06 - 0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	18	15	17	20	41	75	39	20	24	23	37	54	76	69	58	619

Total Number of Valid Hours: 619

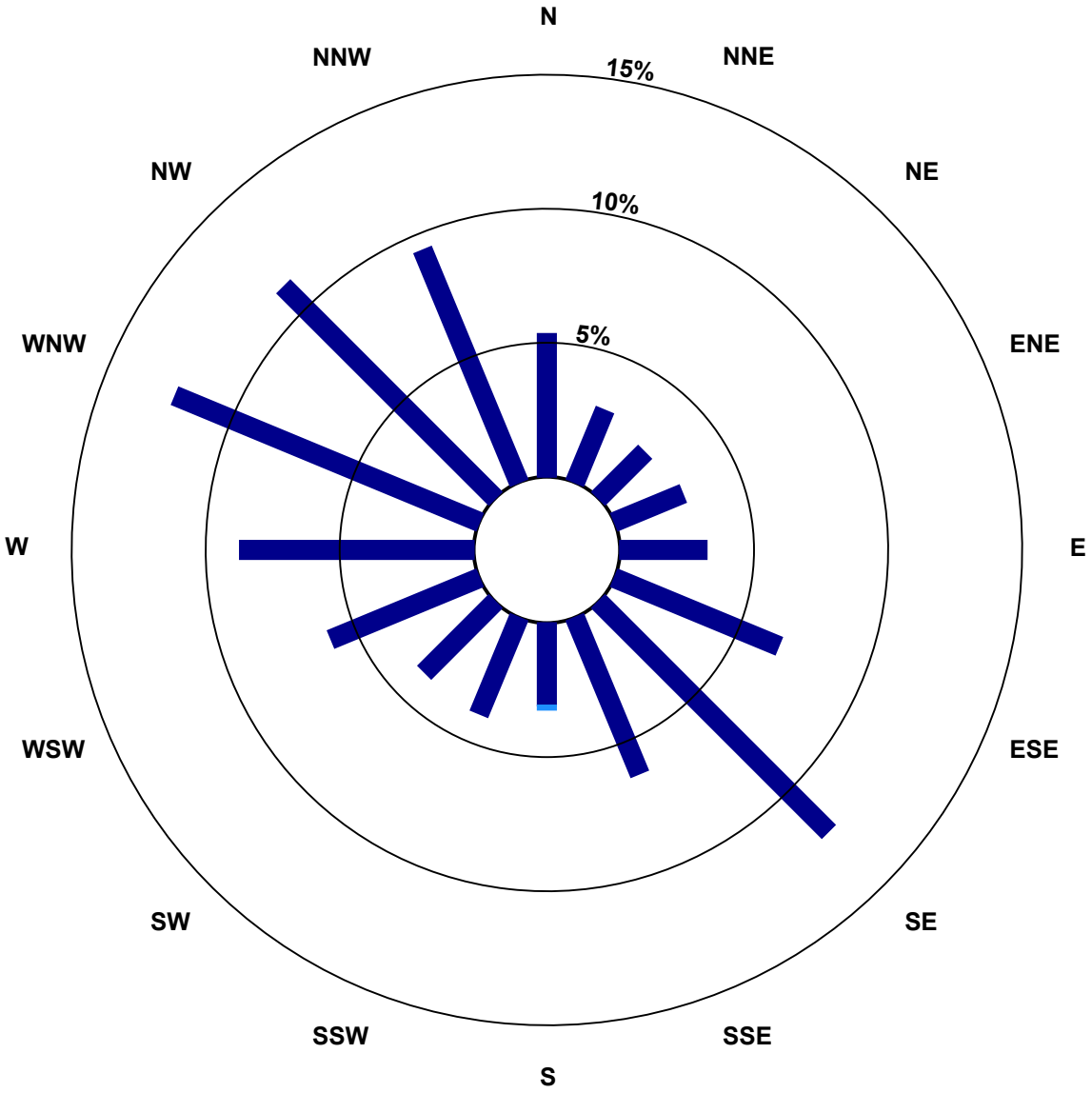
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Anzac



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

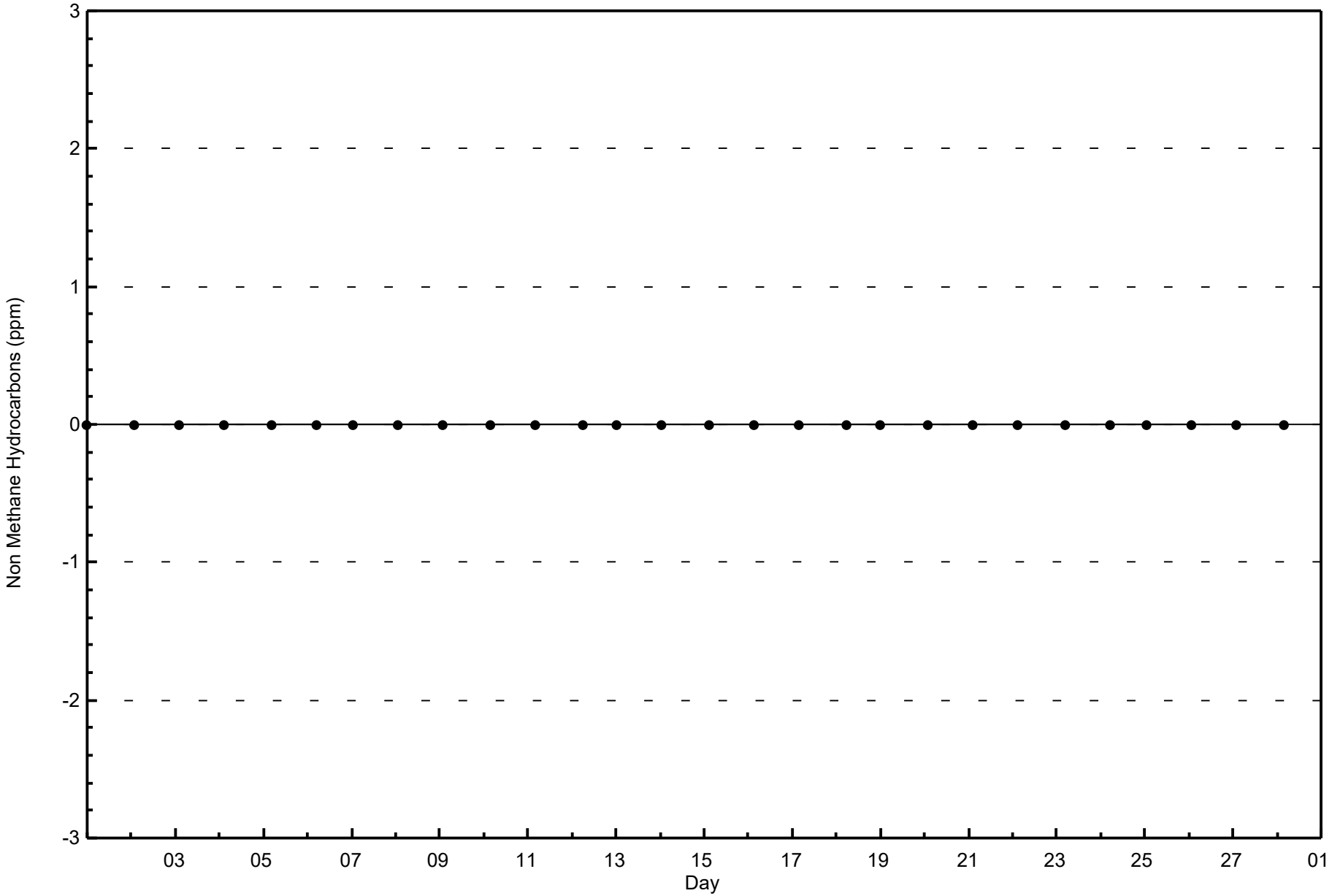
Total Number of Valid Hours: 619

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Anzac - February 2026

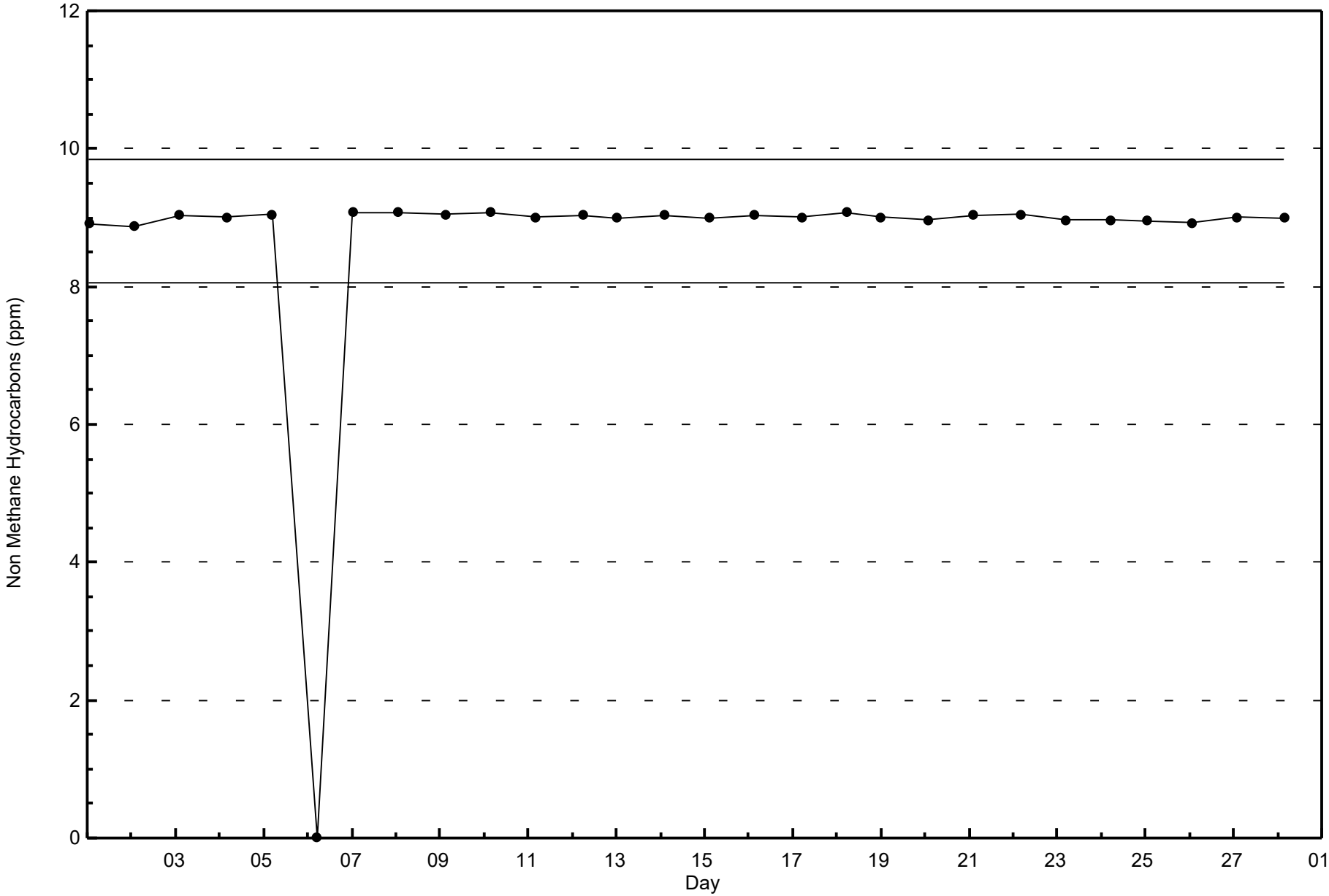


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Anzac - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Anzac - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 2.3 ppm on Feb 15 05:00

Maximum Daily Average: 2.1 ppm on Feb 8

Minimum Value: 1.9 ppm on Feb 1 02:00

Minimum Daily Average: 2.0 ppm on Feb 1

Maximum Diurnal Average: 2.0 ppm at hour 9

Minimum Diurnal Average: 2.0 ppm at hour 15

Monthly Average: 2.03 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.0 Median = 2.0 Q_3 = 2.0 P_{90} = 2.1 P_{99} = 2.2

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
2-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	C	C	C	C	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1
3-Feb	2.2	2.2	Z	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2
4-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.1
5-Feb	2.0	2.0	2.0	2.0	Z	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1
6-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
7-Feb	Z	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.2
8-Feb	2.1	Z	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
9-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
10-Feb	2.1	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1
11-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
12-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
13-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
14-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
15-Feb	2.0	2.0	Z	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.3
16-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
17-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
18-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
19-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
20-Feb	2.0	Z	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	M	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.0	2.2
21-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
22-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
23-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.1
24-Feb	2.1	2.0	2.0	2.0	2.1	Z	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1
25-Feb	Z	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
26-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
27-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
28-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1
	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	Diurnal Average	
	2.2	2.2	2.1	2.2	2.3	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	Diurnal Maximum	

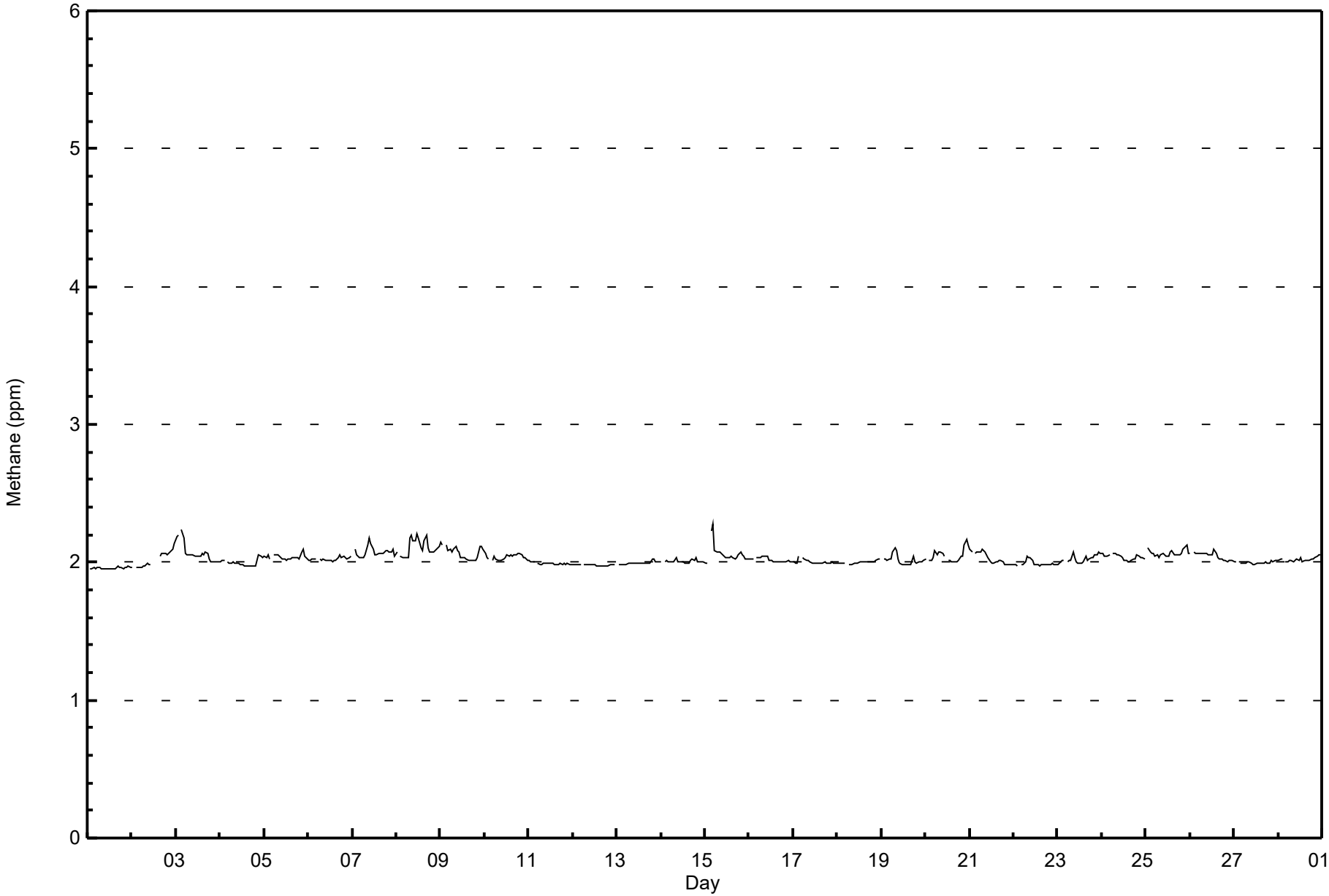
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Anzac - February 2026



Methane (CH_4) - ppm

Anzac - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	482	75.43	75.43
2.1 - 3.0	157	24.57	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Anzac - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	30	17	13	13	12	27	63	28	15	20	21	34	45	53	40	39	470
2.1 - 3.0	3	1	2	4	8	14	12	11	5	4	2	3	9	23	29	19	149
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	18	15	17	20	41	75	39	20	24	23	37	54	76	69	58	619

Total Number of Valid Hours: 619

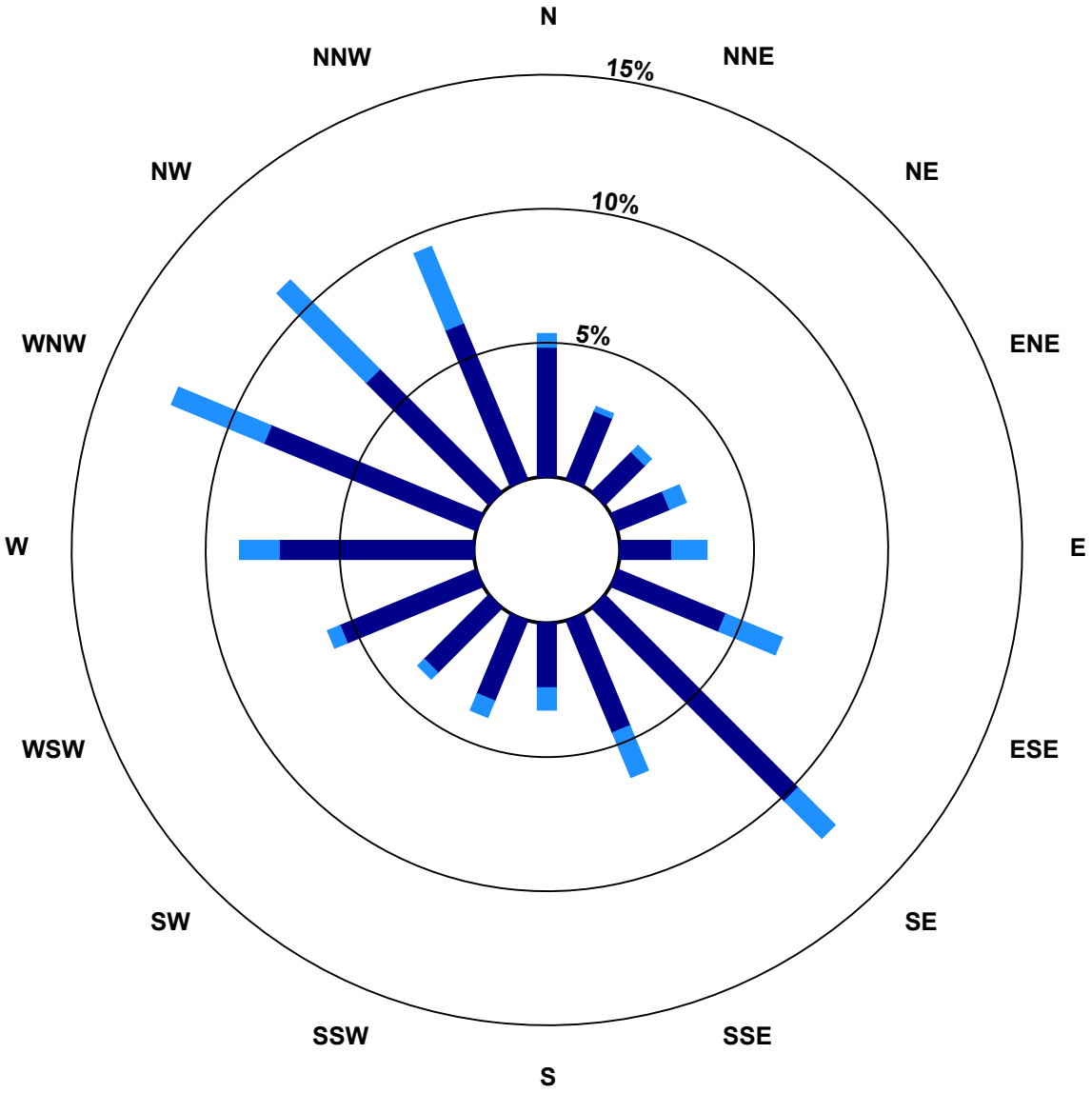
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Anzac



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

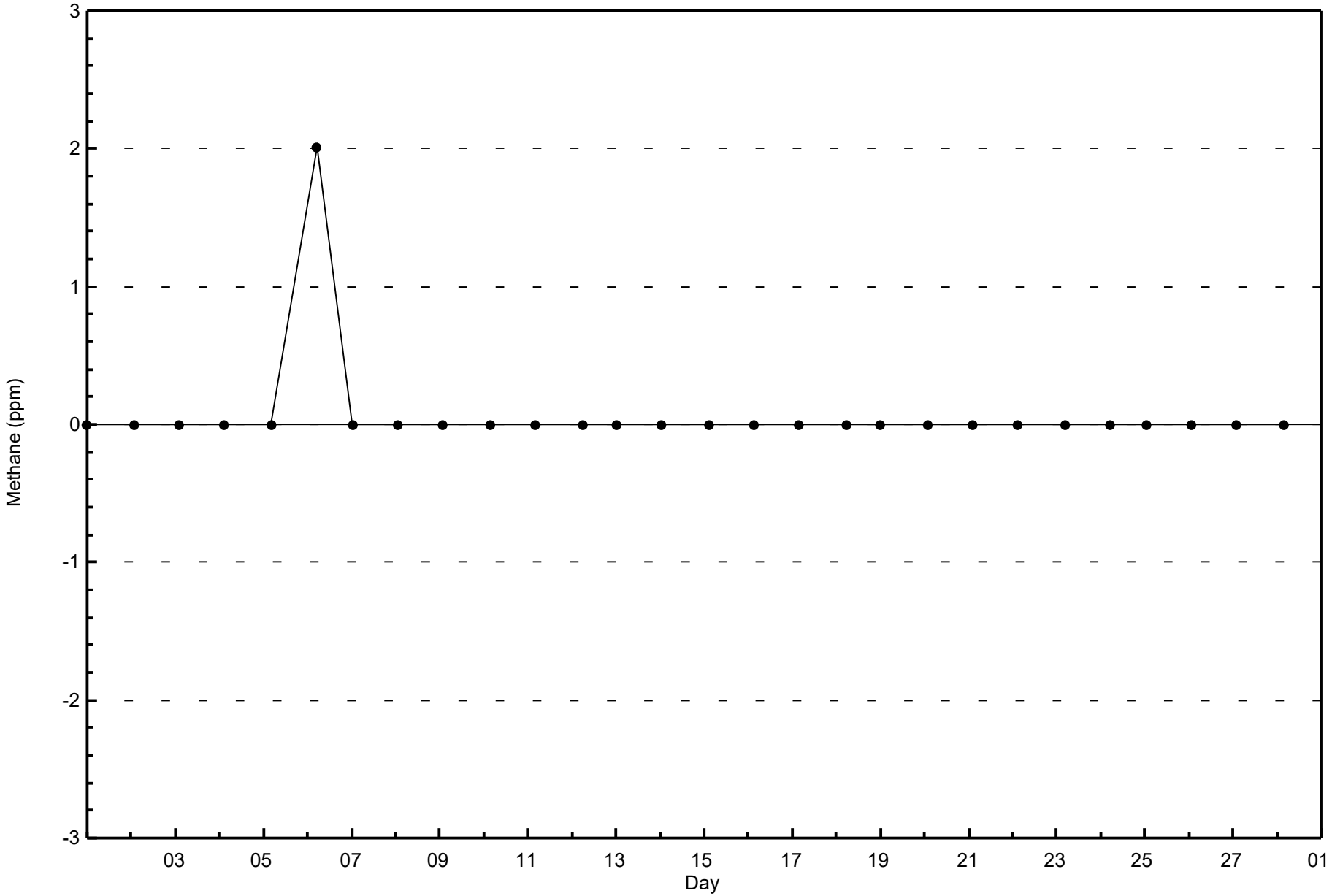
Total Number of Valid Hours: 619

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Anzac - February 2026

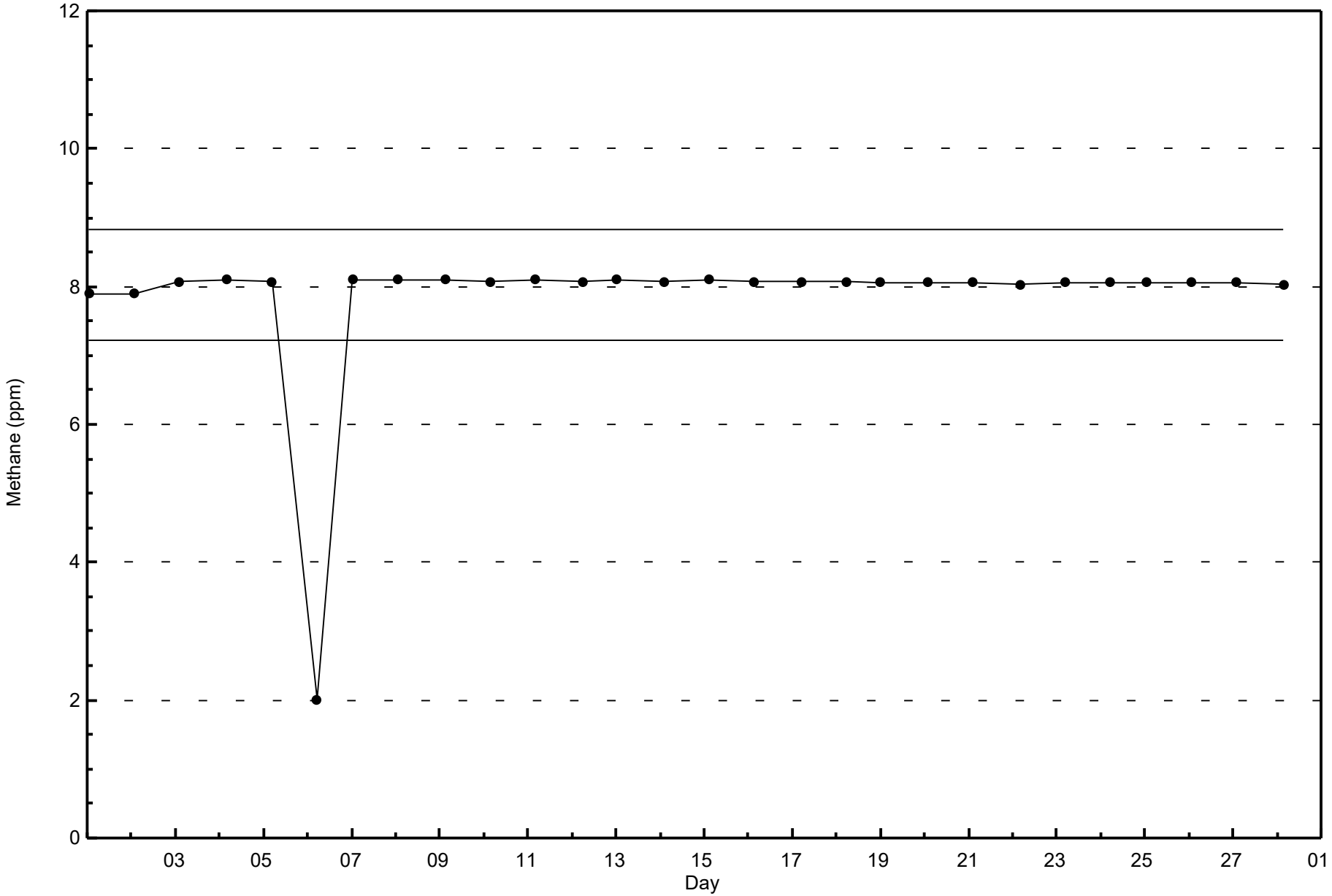


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Anzac - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Anzac - February 2026

Maximum Value: 21.9 ppb on Feb 20 08:00

Maximum Daily Average: 5.1 ppb on Feb 19

Minimum Value: 0.0 ppb on Feb 1 01:00

Minimum Daily Average: 0.1 ppb on Feb 17

Maximum Diurnal Average: 2.0 ppb at hour 9

Minimum Diurnal Average: 0.2 ppb at hour 19

Monthly Average: 1.13 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.2 Q_3 = 1.2 P_{90} = 3.0 P_{99} = 11.8

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.2	0.3	0.1	4.6	0.3	0.4	0.4	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	4.6
2-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.5	0.8	1.1	1.2	1.4	0.7	0.6	0.3	0.2	0.4	0.0	0.0	0.1	0.0	0.0	0.3	1.4
3-Feb	Z	0.4	0.1	0.2	0.1	0.0	0.0	0.1	0.9	0.6	0.6	C	C	C	C	C	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9
4-Feb	1.4	Z	0.0	0.5	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	1.4
5-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.0	0.1	0.3	0.5	0.6	0.7	1.3	1.2	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3
6-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.2	0.2	0.3	0.6	0.1	0.2	0.0	0.0	0.0	0.1	1.4	0.0	0.0	0.2	1.4
7-Feb	0.0	0.1	0.1	0.1	Z	0.2	0.3	0.1	2.3	4.4	3.1	2.7	1.7	1.8	1.7	1.3	0.9	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.9	4.4
8-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.3	0.1	1.2	1.4	3.2	5.3	4.1	1.8	1.8	3.9	3.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	1.2	5.3
9-Feb	Z	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.4	1.5	1.2	0.5	0.6	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	1.5
10-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	2.0	3.1	5.1	1.3	6.3	0.5	0.1	0.8	0.2	2.6	1.0	0.8	0.3	1.1	6.3
11-Feb	0.0	0.0	Z	0.0	0.1	2.8	0.9	2.4	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.2	0.3	1.3	0.0	0.1	0.2	0.0	0.4	0.1	0.5	2.8
12-Feb	0.8	0.3	0.4	Z	0.0	0.3	0.1	0.1	0.1	0.2	0.2	0.4	0.4	0.5	1.0	0.5	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.3	1.0
13-Feb	0.1	0.0	0.1	0.1	Z	0.1	0.3	0.2	0.1	0.1	0.7	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.2	0.6	0.7	1.4	3.4	1.9	0.5	3.4
14-Feb	18.7	5.9	5.0	0.1	0.0	Z	0.2	0.4	4.4	1.2	4.6	1.5	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.9	0.0	0.7	0.1	0.4	2.0	18.7
15-Feb	Z	0.2	0.8	0.2	3.0	0.1	0.1	0.4	1.0	2.4	2.1	1.5	1.6	2.0	2.1	2.0	1.4	0.3	0.0	0.1	0.1	0.0	0.0	1.0	1.0	3.0
16-Feb	3.6	Z	5.6	0.1	2.7	2.3	1.1	0.6	1.8	2.4	2.0	0.3	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.0	5.6
17-Feb	0.0	0.0	Z	0.1	0.1	0.1	0.0	0.3	1.1	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.2
18-Feb	0.0	0.0	0.4	Z	0.2	0.3	0.3	0.3	1.2	1.7	1.8	2.0	2.8	3.1	5.4	3.0	2.7	2.3	1.6	1.2	1.4	3.0	6.5	4.9	2.0	6.5
19-Feb	6.0	6.1	5.4	6.0	Z	13.5	11.2	10.7	8.2	5.9	2.1	0.6	0.3	0.2	2.2	1.7	3.5	0.3	0.0	21.5	10.6	1.2	0.6	0.2	5.1	21.5
20-Feb	0.1	0.4	1.1	1.1	0.3	Z	5.7	21.9	13.2	8.9	2.6	M	1.2	1.8	1.1	0.6	0.3	0.7	0.1	0.1	0.8	1.5	2.0	2.0	3.1	21.9
21-Feb	Z	0.9	0.8	0.7	0.7	0.7	1.1	2.0	6.2	4.8	3.1	1.9	1.7	1.7	2.2	1.8	1.2	0.5	0.0	0.0	0.4	0.0	0.0	0.0	1.4	6.2
22-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.4	1.3	4.1	4.7	2.6	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.6	4.7
23-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.3	1.5	1.5	1.5	0.5	0.4	0.2	0.2	0.3	0.2	0.1	0.0	1.6	12.2	11.1	0.4	4.8	1.6	12.2
24-Feb	1.2	1.3	0.1	Z	1.1	2.1	1.4	4.5	1.3	3.4	1.2	1.1	0.8	0.6	0.5	0.5	1.9	1.7	1.8	0.2	2.2	0.8	0.0	0.0	1.3	4.5
25-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.5	0.0	1.1	1.0	1.6	2.0	1.4	2.3	2.6	1.7	1.1	0.5	0.1	0.2	0.1	0.2	0.0	0.3	0.7	2.6
26-Feb	0.0	0.1	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.1	0.1	3.9	2.0	0.9	0.9	0.4	0.2	0.1	0.0	0.0	0.1	0.0	0.4	3.9
27-Feb	Z	0.0	0.0	0.0	0.1	0.1	0.2	4.0	2.6	2.3	2.0	1.9	4.2	2.9	3.4	2.8	2.7	2.0	0.6	2.5	2.3	7.2	13.8	10.9	3.0	13.8
28-Feb	7.2	Z	7.9	4.7	3.5	3.1	7.0	4.4	0.8	1.4	1.4	1.4	1.9	0.9	0.7	0.5	0.3	0.3	0.0	0.0	0.3	0.1	0.0	0.3	2.1	7.9
	1.7	0.7	1.2	0.6	0.5	1.1	1.1	1.9	2.0	1.9	1.5	1.1	1.3	1.2	1.2	1.1	0.8	0.4	0.2	1.1	1.2	1.1	1.0	1.0	Diurnal Average	
	18.7	6.1	7.9	6.0	3.5	13.5	11.2	21.9	13.2	8.9	4.6	5.3	4.6	5.1	5.4	6.3	3.5	2.3	1.8	21.5	12.2	11.1	13.8	10.9	Diurnal Maximum	

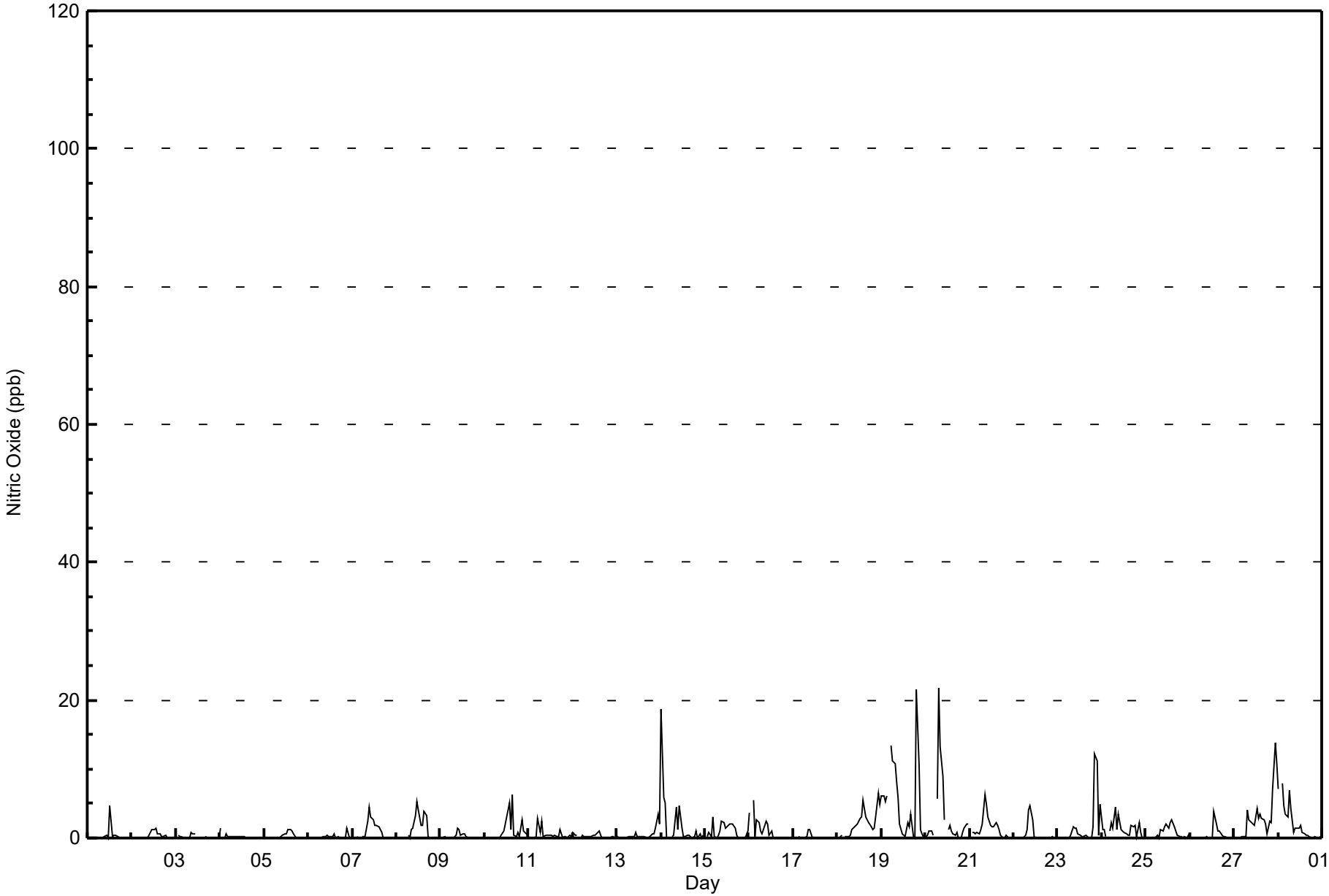
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Anzac - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	636	99.69	99.69
21 - 40	2	0.31	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Anzac - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	31	20	15	17	19	39	74	39	21	24	21	38	54	76	67	61	616
21 - 40	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	31	20	15	17	19	40	74	39	22	24	21	38	54	76	67	61	618

Total Number of Valid Hours: 618

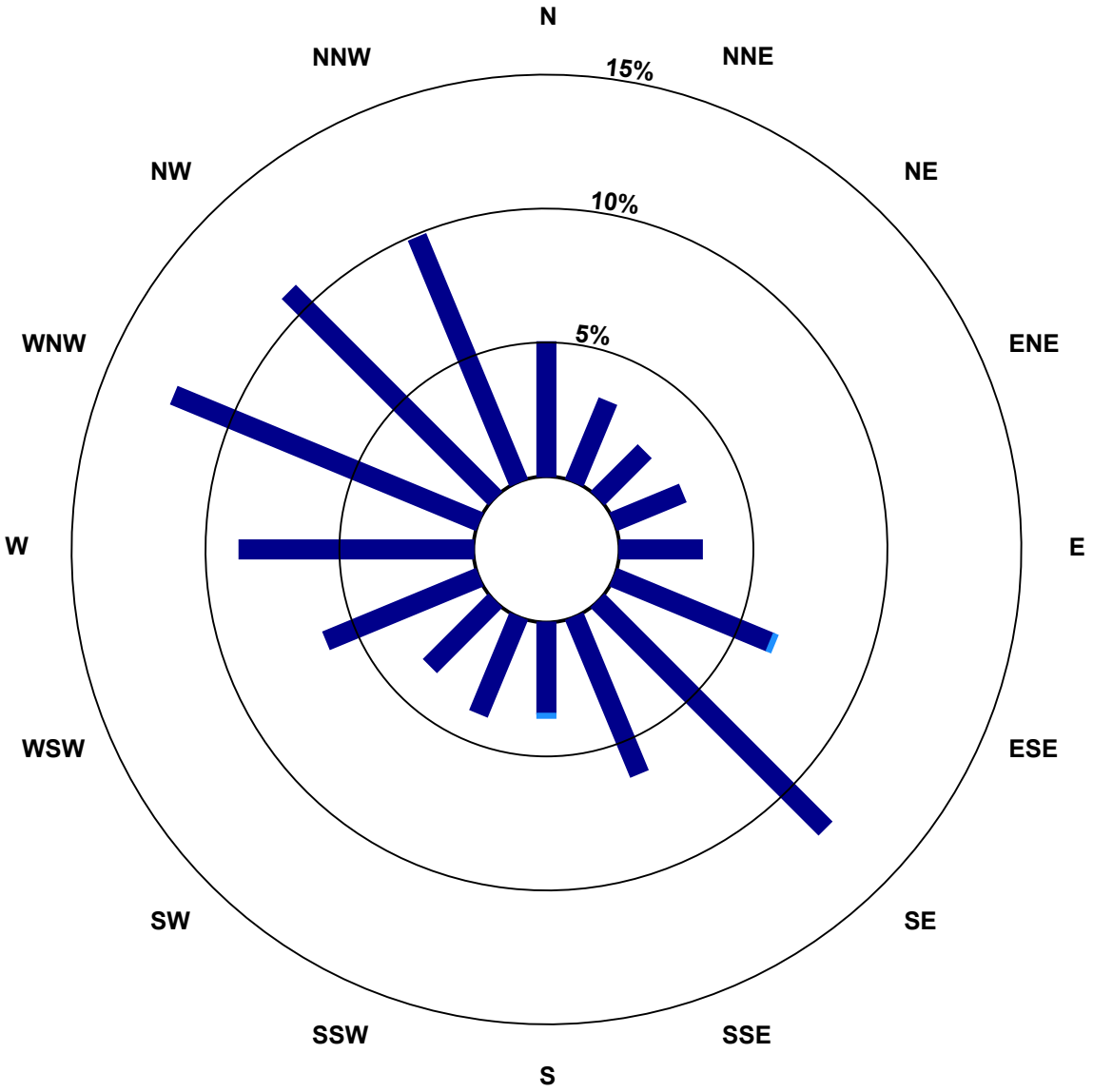
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Anzac



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

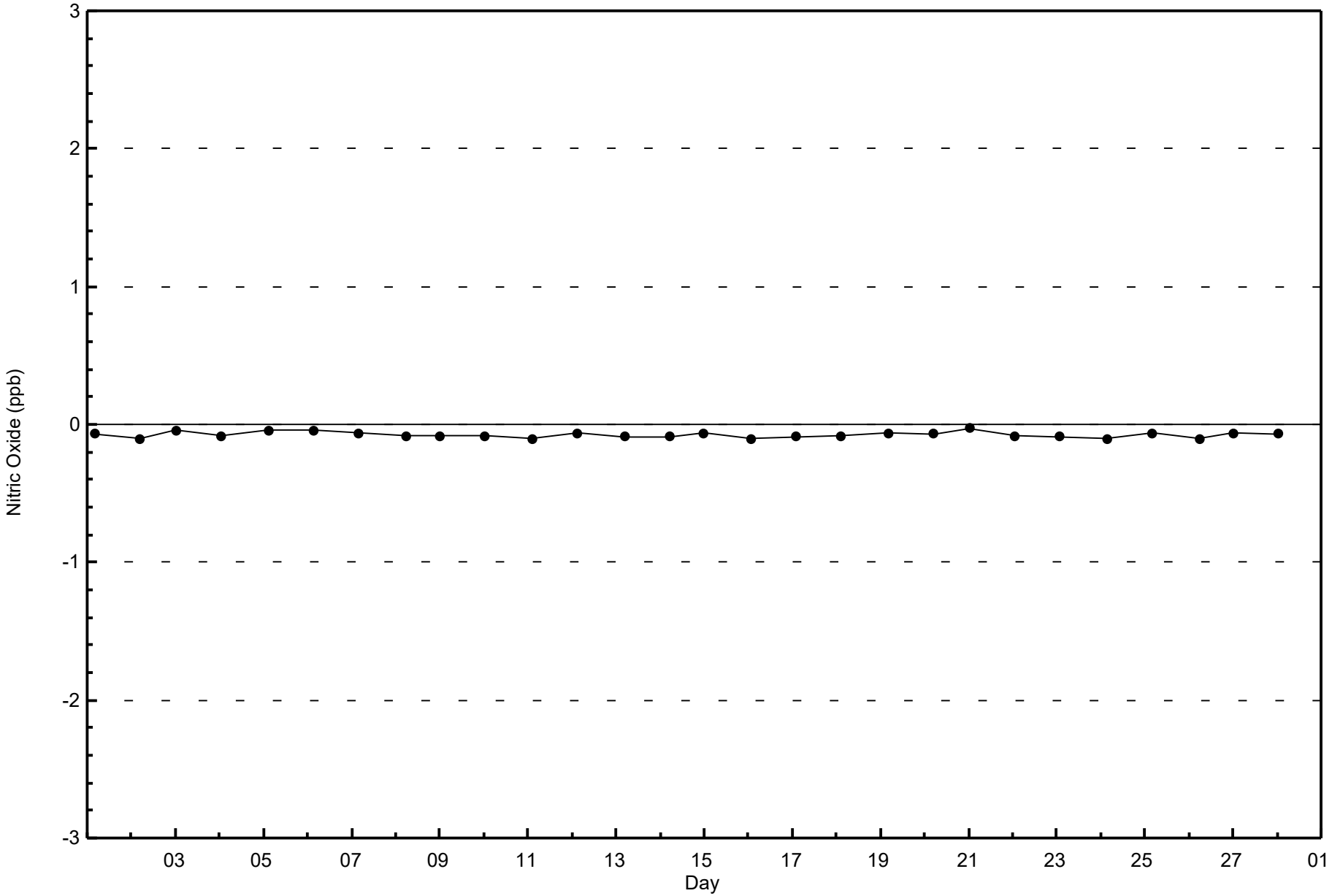
Total Number of Valid Hours: 618

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Anzac - February 2026

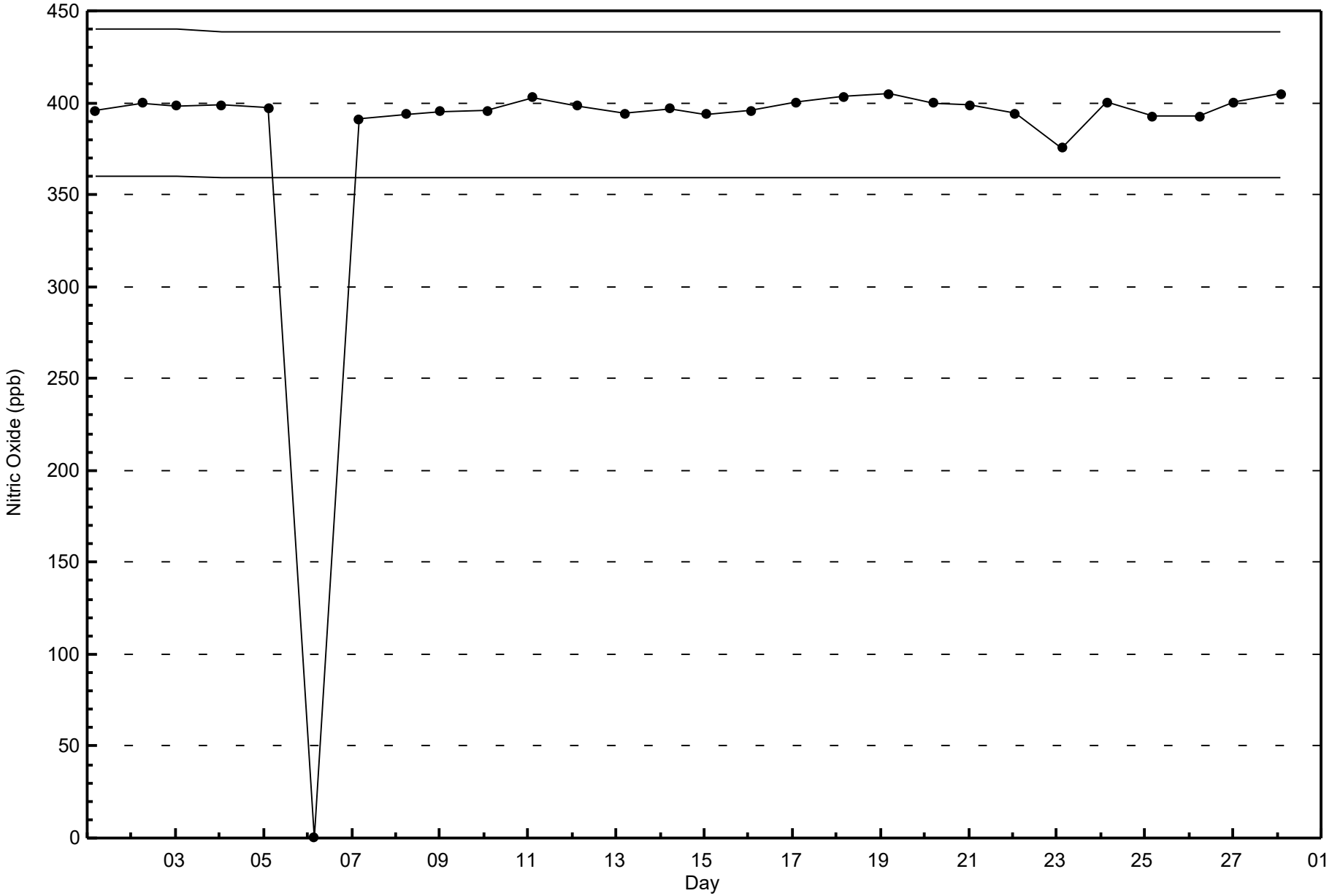


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Anzac - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Anzac - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 32.1 ppb on Feb 20 08:00 Maximum Daily Average: 10.0 ppb on Feb 20

Minimum Value: 0.2 ppb on Feb 16 19:00 Minimum Daily Average: 1.4 ppb on Feb 12
Maximum Diurnal Average: 6.4 ppb at hour 8 Minimum Diurnal Average: 2.2 ppb at hour 13
Monthly Average: 4.25 ppb Percentiles: P_1 = 0.2 P_{10} = 0.7 Q_1 = 1.3 Median = 2.9 Q_3 = 5.5 P_{90} = 9.3 P_{99} = 21.3

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.1	1.0	1.2	1.2	Z	2.0	2.8	3.8	3.4	2.5	2.3	0.6	1.8	1.5	2.6	3.3	2.1	1.9	8.2	4.6	8.8	7.1	6.6	6.1	3.3	8.8
2-Feb	5.8	4.7	3.0	0.9	1.1	Z	3.3	3.6	3.8	4.1	3.7	3.5	3.5	4.3	3.3	4.3	5.3	6.2	3.2	2.2	2.4	2.4	3.4	10.9	3.9	10.9
3-Feb	Z	14.5	19.9	17.5	12.5	4.2	4.6	5.1	5.4	4.2	3.2	C	C	C	C	C	4.8	4.0	2.2	1.4	1.3	1.4	1.6	2.0	6.1	19.9
4-Feb	3.3	Z	2.6	2.7	2.1	1.8	1.7	1.7	1.6	1.1	1.0	0.8	1.0	0.8	0.6	0.7	0.9	1.2	1.1	1.2	3.3	4.5	3.9	3.3	1.9	4.5
5-Feb	3.5	3.2	Z	2.1	3.4	4.5	4.8	5.2	4.2	2.6	1.9	2.0	1.8	4.0	4.3	5.1	5.1	5.3	7.2	4.8	5.7	5.1	2.5	2.1	3.9	7.2
6-Feb	1.8	1.8	6.0	Z	3.0	1.6	1.5	2.4	5.0	2.5	2.7	1.2	1.2	1.6	2.2	0.7	2.4	2.2	0.8	3.7	2.2	0.8	0.7	1.6	2.2	6.0
7-Feb	3.0	1.9	1.6	2.2	Z	2.1	2.8	5.8	15.8	14.1	9.3	8.7	6.4	5.8	6.1	7.3	9.1	9.3	11.2	11.4	10.2	9.3	7.2	3.3	7.1	15.8
8-Feb	2.5	2.2	2.1	1.4	1.1	Z	1.6	7.7	8.5	7.5	9.9	10.9	8.6	4.9	4.2	10.8	17.2	10.7	7.5	6.5	6.6	8.8	9.3	9.3	6.9	17.2
9-Feb	Z	11.0	11.1	10.9	7.8	7.0	5.3	6.8	6.7	5.2	4.3	1.7	2.1	2.1	1.2	0.7	0.7	0.7	0.7	0.9	4.6	13.7	14.5	12.7	5.8	14.5
10-Feb	7.9	Z	1.2	0.9	1.2	2.8	3.2	1.1	0.7	1.4	2.0	2.8	4.0	4.6	3.8	3.7	3.0	4.2	7.6	5.4	6.0	3.4	2.9	1.9	3.3	7.9
11-Feb	1.8	1.7	Z	1.7	2.0	5.6	2.7	5.8	1.8	1.6	1.5	1.4	1.2	1.2	1.4	1.4	2.3	8.5	2.7	2.3	2.0	1.2	1.6	1.0	2.4	8.5
12-Feb	2.3	1.5	1.6	Z	1.1	1.7	1.6	1.3	1.4	1.2	1.0	1.3	1.5	1.5	2.1	2.2	1.4	1.3	1.1	1.0	1.3	1.4	1.3	0.8	1.4	2.3
13-Feb	0.8	0.6	0.6	0.6	Z	0.8	0.9	0.9	1.0	0.8	1.9	0.8	0.9	0.7	0.9	0.7	0.8	1.9	2.5	4.5	5.7	8.8	5.7	5.2	2.1	8.8
14-Feb	14.5	7.1	11.9	3.0	1.6	Z	2.3	4.4	5.2	3.1	8.7	3.1	1.3	1.1	1.4	1.6	2.1	3.1	2.9	5.4	1.5	2.8	1.5	3.3	4.0	14.5
15-Feb	Z	1.4	27.4	24.6	25.0	8.4	7.7	9.2	7.2	7.3	5.1	3.3	3.1	3.8	4.8	6.2	7.3	7.1	12.4	16.1	12.1	6.5	3.5	4.6	9.3	27.4
16-Feb	4.4	Z	8.9	5.5	8.6	9.1	6.4	7.2	6.4	4.0	2.5	0.6	1.1	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.8	0.8	0.2	0.2	3.0	9.1
17-Feb	0.2	0.2	Z	9.0	10.2	8.6	6.0	4.3	4.9	2.9	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	2.2	10.2
18-Feb	0.4	1.0	1.2	Z	1.1	1.1	0.9	1.1	1.2	1.1	1.0	0.9	0.9	1.1	0.5	1.0	1.4	2.4	3.6	3.9	4.3	4.9	5.9	5.4	2.0	5.9
19-Feb	6.3	4.9	4.8	5.0	Z	5.9	6.3	7.8	5.8	4.2	1.8	0.8	0.7	0.6	2.2	3.7	4.8	5.4	3.9	16.3	13.1	4.7	2.5	2.5	5.0	16.3
20-Feb	2.5	3.4	4.4	5.7	5.4	Z	15.9	32.1	14.7	13.0	5.0	M	2.3	2.7	2.5	2.1	2.3	3.9	3.6	9.6	13.6	24.4	29.0	22.2	10.0	32.1
21-Feb	Z	13.5	13.0	13.5	14.4	14.7	16.3	18.1	15.9	10.6	6.5	4.0	3.5	3.3	4.3	4.7	6.1	8.0	5.2	0.4	0.9	0.4	0.4	0.4	7.7	18.1
22-Feb	0.3	Z	0.3	0.3	0.3	0.3	5.3	11.8	8.4	6.2	4.0	0.6	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.8	1.7	1.6	0.4	0.4	1.9	11.8
23-Feb	0.3	1.0	Z	2.1	2.1	3.4	1.7	3.1	6.6	3.2	2.3	1.4	0.9	0.8	0.8	1.1	1.1	1.7	2.9	4.5	9.7	12.9	5.7	15.3	3.7	15.3
24-Feb	7.2	5.2	2.7	Z	4.1	7.0	7.8	11.3	4.0	3.2	1.9	1.6	1.4	1.3	1.1	1.5	3.7	3.8	3.2	5.8	7.0	6.5	3.3	2.4	4.2	11.3
25-Feb	5.9	5.0	4.9	5.2	Z	3.7	2.4	1.6	4.0	2.7	3.2	3.2	2.9	4.5	5.5	5.7	5.4	4.8	5.0	5.3	4.9	6.6	5.7	2.6	4.4	6.6
26-Feb	1.7	2.2	1.4	1.0	1.0	Z	1.0	1.0	1.0	1.2	1.1	0.9	0.9	6.8	4.5	3.0	3.0	2.5	2.0	1.8	1.3	1.2	1.9	1.8	1.9	6.8
27-Feb	Z	2.6	2.1	1.9	1.8	2.9	3.7	7.9	6.5	3.7	2.3	2.1	3.7	2.7	3.6	3.6	4.9	7.7	6.5	6.5	9.2	11.0	15.0	14.3	5.5	15.0
28-Feb	14.0	Z	11.0	9.1	6.8	5.4	7.8	7.3	2.7	2.5	1.8	1.9	2.4	1.3	1.2	1.2	1.5	1.8	2.2	2.9	4.1	4.8	5.1	4.8	4.5	14.0
	4.0	4.0	6.0	5.3	5.1	4.5	4.6	6.4	5.5	4.2	3.3	2.3	2.2	2.4	2.4	2.9	3.6	3.9	3.9	4.6	5.2	5.6	5.1	5.0	Diurnal Average	
	14.5	14.5	27.4	24.6	25.0	14.7	16.3	32.1	15.9	14.1	9.9	10.9	8.6	6.8	6.1	10.8	17.2	10.7	12.4	16.3	13.6	24.4	29.0	22.2	Diurnal Maximum	

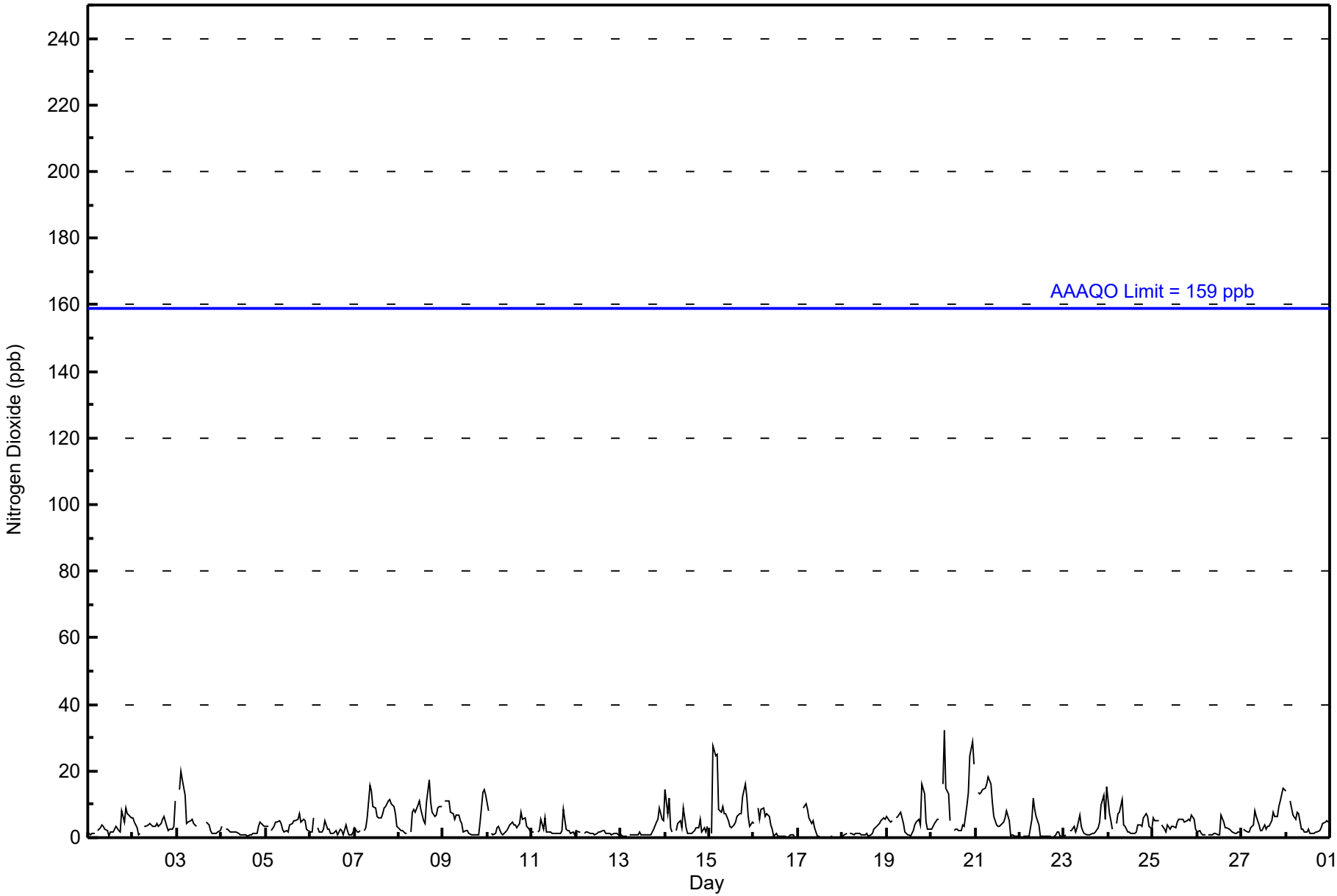
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Anzac - February 2026



Nitrogen Dioxide (NO_2) - ppb
Anzac - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	631	98.90	98.90
21 - 40	7	1.10	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Anzac - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	31	20	15	17	19	40	74	39	21	24	21	38	54	73	66	59	611
21 - 40	0	0	0	0	0	0	0	0	1	0	0	0	0	3	1	2	7
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	31	20	15	17	19	40	74	39	22	24	21	38	54	76	67	61	618

Total Number of Valid Hours: 618

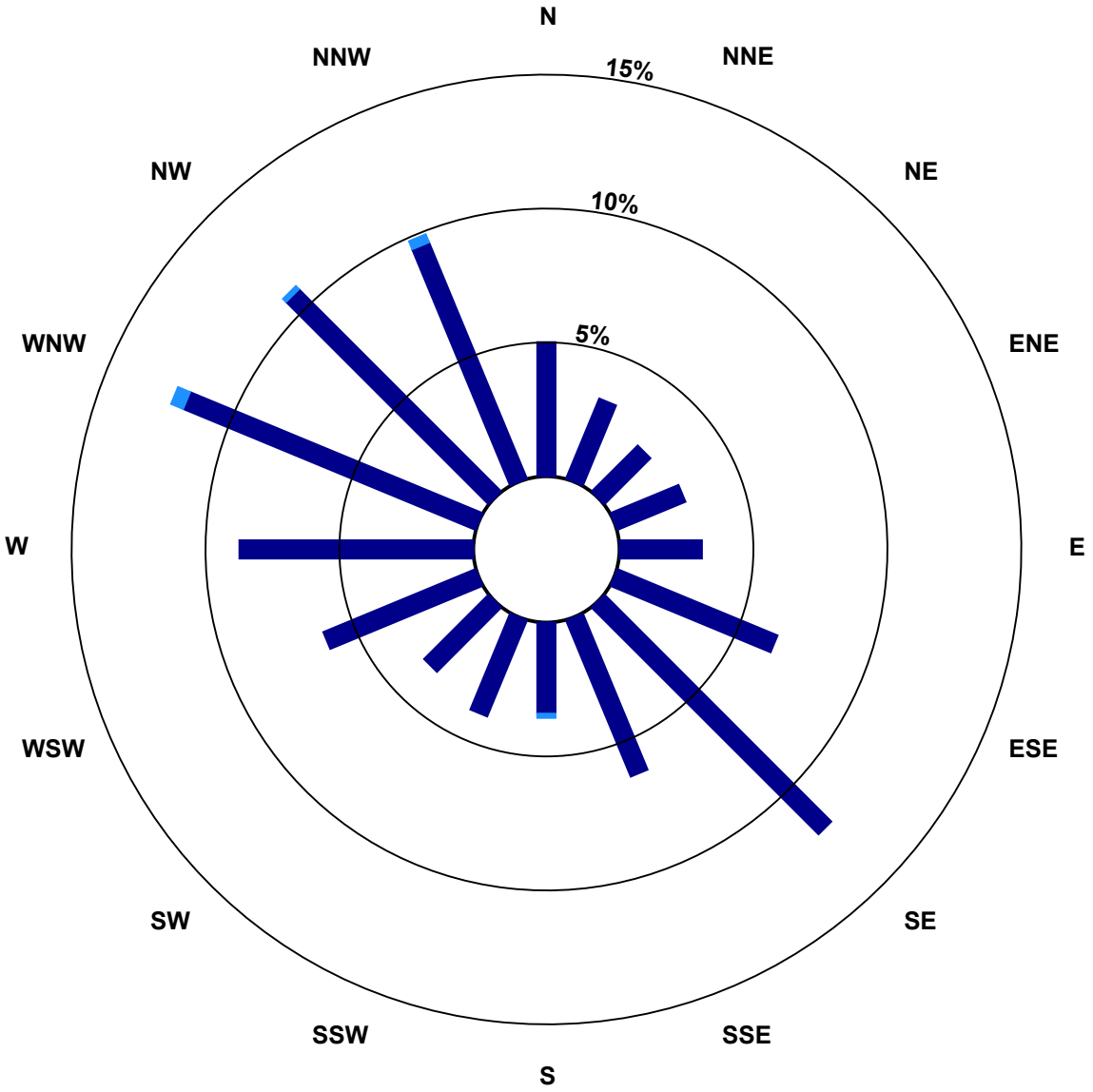
Total Number of Hours: 672

Wood Buffalo Environmental Association

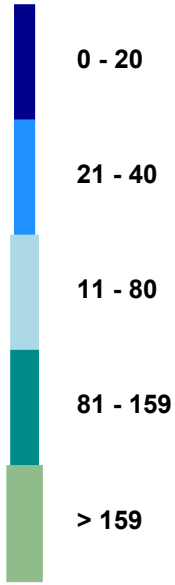
Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Anzac



Classes (ppb)



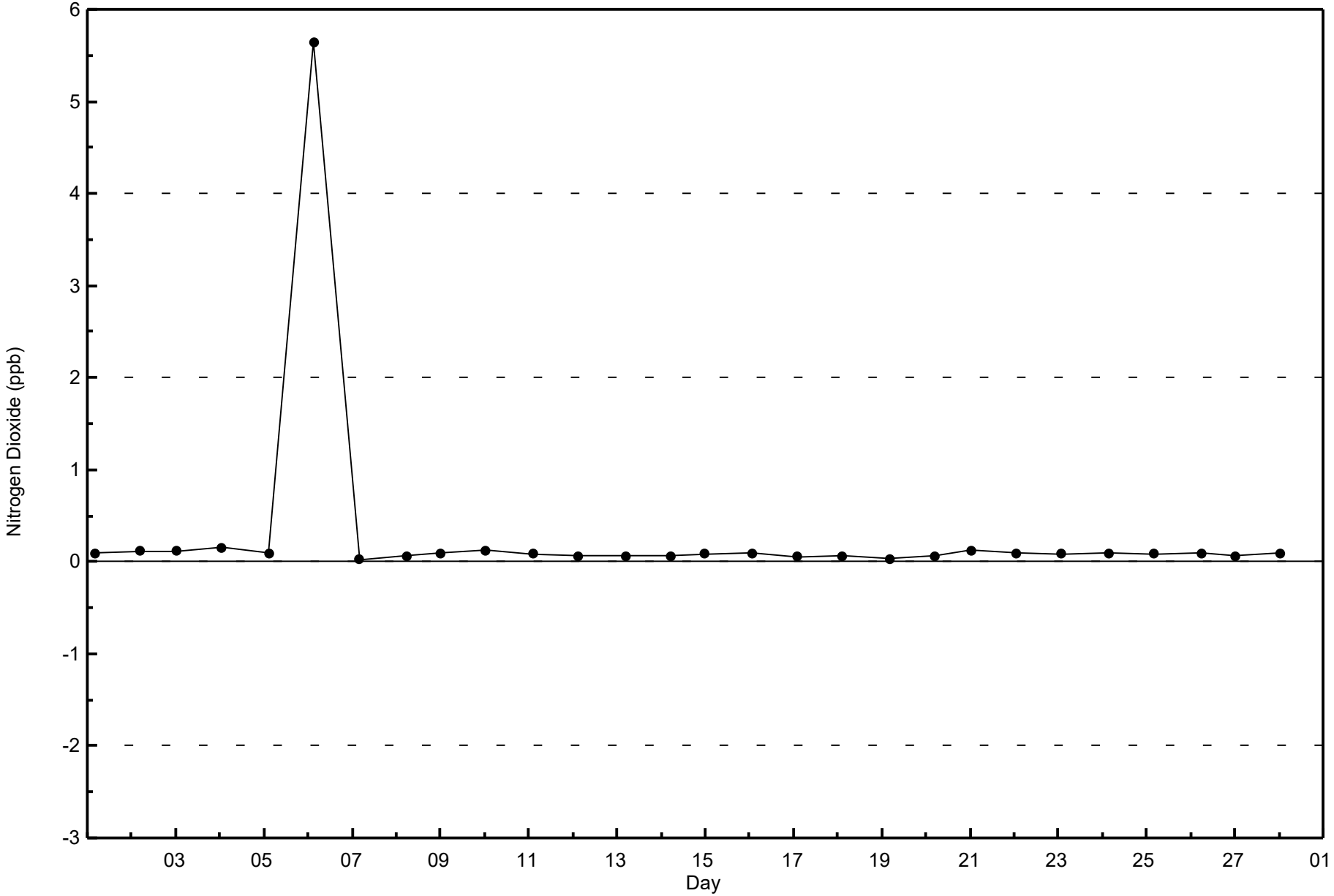
Total Number of Valid Hours: 618

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Anzac - February 2026

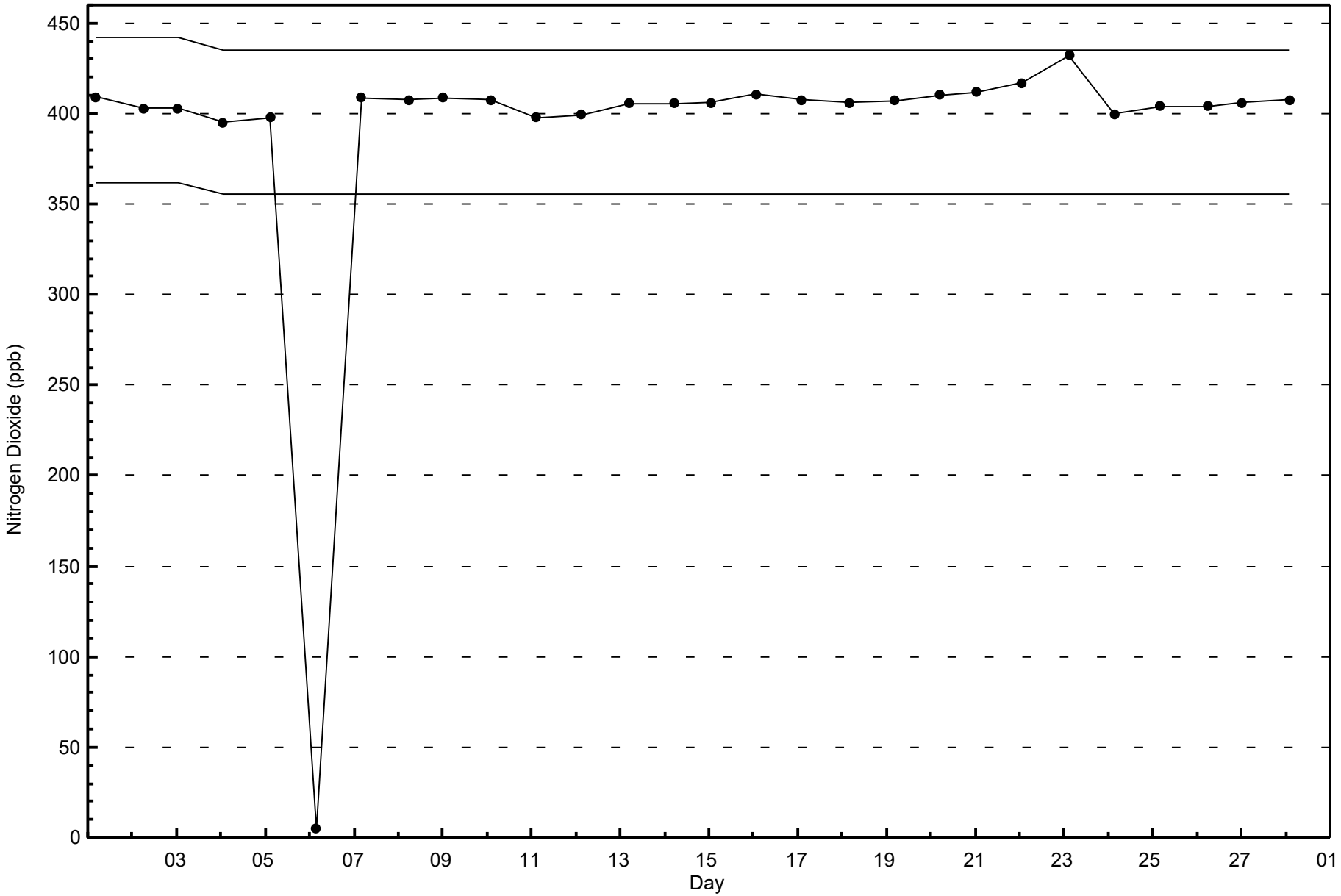


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Anzac - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Anzac - February 2026

Maximum Value: 54.0 ppb on Feb 20 08:00

Maximum Daily Average: 13.1 ppb on Feb 20

Minimum Value: 0.2 ppb on Feb 17 02:00

Minimum Daily Average: 1.7 ppb on Feb 12

Maximum Diurnal Average: 8.3 ppb at hour 8

Minimum Diurnal Average: 3.4 ppb at hour 12

Monthly Average: 5.38 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.8 Q_1 = 1.6 Median = 3.6 Q_3 = 7.0 P_{90} = 12.0 P_{99} = 28.0

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.1	1.0	1.2	1.2	Z	2.0	2.8	3.8	3.5	2.7	2.6	0.7	6.4	1.8	3.0	3.7	2.2	1.9	8.3	4.6	8.8	7.1	6.6	6.1	3.6	8.8
2-Feb	5.8	4.7	3.0	0.9	1.1	Z	3.3	3.6	3.9	4.6	4.5	4.6	4.7	5.7	4.0	4.9	5.6	6.4	3.6	2.2	2.4	2.5	3.4	10.9	4.2	10.9
3-Feb	Z	14.9	20.0	17.7	12.6	4.2	4.6	5.2	6.3	4.8	3.8	C	C	C	C	C	5.0	4.0	2.2	1.4	1.3	1.4	1.6	2.0	6.3	20.0
4-Feb	4.7	Z	2.6	3.2	2.3	2.0	1.9	1.9	1.7	1.3	1.2	1.0	1.3	0.9	0.7	0.7	0.9	1.2	1.1	1.2	3.3	4.5	4.0	3.3	2.0	4.7
5-Feb	3.5	3.2	Z	2.1	3.4	4.5	4.9	5.2	4.3	2.9	2.4	2.6	2.5	5.3	5.5	6.2	5.7	5.3	7.2	4.8	5.7	5.1	2.5	2.1	4.2	7.2
6-Feb	1.8	1.8	6.0	Z	3.0	1.6	1.5	2.4	5.1	2.8	3.2	1.4	1.4	1.9	2.8	0.8	2.6	2.2	0.8	3.7	2.3	2.2	0.7	1.6	2.3	6.0
7-Feb	3.0	2.0	1.7	2.3	Z	2.3	3.1	5.9	18.1	18.5	12.4	11.4	8.1	7.6	7.8	8.6	10.0	9.4	11.2	11.4	10.2	9.4	7.2	3.3	8.0	18.5
8-Feb	2.5	2.2	2.1	1.4	1.1	Z	1.9	7.8	9.7	8.9	13.1	16.2	12.7	6.7	6.0	14.7	20.4	10.9	7.6	6.6	6.7	8.9	9.3	9.3	8.1	20.4
9-Feb	Z	11.0	11.2	11.0	7.8	7.0	5.4	6.8	7.1	6.7	5.5	2.2	2.7	2.6	1.4	0.8	0.7	0.7	0.7	0.9	4.6	13.8	14.6	12.8	6.0	14.6
10-Feb	7.9	Z	1.2	0.9	1.2	2.8	3.2	1.1	0.7	1.9	3.1	4.8	7.1	9.7	5.1	10.0	3.5	4.3	8.4	5.6	8.6	4.4	3.7	2.2	4.4	10.0
11-Feb	1.8	1.7	Z	1.7	2.1	8.4	3.6	8.2	2.1	1.9	1.9	1.7	1.6	1.5	1.7	1.6	2.6	9.8	2.7	2.4	2.2	1.2	2.0	1.1	2.9	9.8
12-Feb	3.1	1.8	2.0	Z	1.1	2.0	1.7	1.4	1.5	1.4	1.2	1.7	1.9	2.0	3.1	2.7	1.5	1.4	1.2	1.1	1.4	1.6	1.5	0.9	1.7	3.1
13-Feb	0.9	0.6	0.7	0.7	Z	0.9	1.2	1.1	1.1	0.9	2.6	1.0	1.1	0.9	1.1	0.8	0.8	2.0	2.7	5.1	6.4	10.2	9.1	7.1	2.6	10.2
14-Feb	33.2	13.0	16.9	3.1	1.6	Z	2.5	4.8	9.6	4.3	13.3	4.6	1.5	1.3	1.7	1.9	2.3	3.2	3.0	6.3	1.5	3.5	1.6	3.7	6.0	33.2
15-Feb	Z	1.6	28.2	24.8	28.0	8.5	7.8	9.6	8.2	9.7	7.2	4.8	4.7	5.8	6.9	8.2	8.7	7.4	12.4	16.2	12.2	6.5	3.5	5.6	10.3	28.2
16-Feb	8.0	Z	14.5	5.6	11.3	11.4	7.5	7.8	8.2	6.4	4.5	0.9	2.1	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.9	0.8	0.2	0.2	4.0	14.5
17-Feb	0.2	0.2	Z	9.1	10.3	8.7	6.0	4.6	6.0	4.1	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	2.3	10.3
18-Feb	0.4	1.0	1.6	Z	1.3	1.4	1.2	1.4	2.4	2.8	2.8	2.9	3.7	4.2	5.9	4.0	4.1	4.7	5.2	5.1	5.7	7.9	12.4	10.3	4.0	12.4
19-Feb	12.3	11.0	10.2	11.0	Z	19.4	17.5	18.5	14.0	10.1	3.9	1.4	1.0	0.8	4.4	5.4	8.3	5.7	3.9	37.8	23.7	5.9	3.1	2.7	10.1	37.8
20-Feb	2.6	3.8	5.5	6.8	5.7	Z	21.6	54.0	27.9	21.9	7.6	M	3.5	4.5	3.6	2.7	2.6	4.6	3.7	9.7	14.4	25.9	31.0	24.2	13.1	54.0
21-Feb	Z	14.4	13.8	14.2	15.1	15.4	17.4	20.1	22.1	15.4	9.6	5.9	5.2	5.0	6.5	6.5	7.3	8.5	5.2	0.4	1.3	0.4	0.4	0.4	9.2	22.1
22-Feb	0.3	Z	0.3	0.3	0.3	0.3	5.7	13.1	12.5	10.9	6.6	0.7	0.3	0.5	0.4	0.4	0.3	0.2	0.2	0.8	1.7	1.8	0.4	0.4	2.5	13.1
23-Feb	0.3	1.0	Z	2.1	2.1	3.4	1.7	3.4	8.1	4.7	3.8	1.9	1.3	1.0	1.0	1.4	1.3	1.8	2.9	6.1	21.9	24.0	6.1	20.1	5.3	24.0
24-Feb	8.4	6.5	2.8	Z	5.2	9.1	9.2	15.8	5.3	6.6	3.1	2.7	2.2	1.9	1.6	2.0	5.6	5.5	5.0	6.0	9.2	7.3	3.3	2.4	5.5	15.8
25-Feb	5.9	5.0	4.9	5.2	Z	3.7	2.9	1.6	5.1	3.7	4.8	5.2	4.3	6.8	8.1	7.4	6.5	5.3	5.1	5.5	5.0	6.8	5.7	2.9	5.1	8.1
26-Feb	1.7	2.3	1.4	1.0	1.0	Z	1.0	1.0	1.0	1.3	1.2	1.0	1.0	10.7	6.5	3.9	3.9	2.9	2.2	1.9	1.3	1.2	2.0	1.8	2.3	10.7
27-Feb	Z	2.6	2.1	1.9	1.9	3.0	3.9	11.9	9.1	6.0	4.3	4.0	7.9	5.6	7.0	6.4	7.6	9.7	7.1	9.0	11.5	18.2	28.8	25.2	8.5	28.8
28-Feb	21.2	Z	18.9	13.8	10.3	8.5	14.8	11.7	3.5	3.9	3.2	3.3	4.3	2.2	1.9	1.7	1.8	2.1	2.2	2.9	4.4	4.9	5.1	5.1	6.6	21.2
	5.7	4.7	7.2	5.9	5.6	5.7	5.7	8.3	7.4	6.1	4.8	3.4	3.5	3.6	3.6	4.0	4.4	4.3	4.2	5.7	6.4	6.7	6.1	6.0	Diurnal Average	
	33.2	14.9	28.2	24.8	28.0	19.4	21.6	54.0	27.9	21.9	13.3	16.2	12.7	10.7	8.1	14.7	20.4	10.9	12.4	37.8	23.7	25.9	31.0	25.2	Diurnal Maximum	

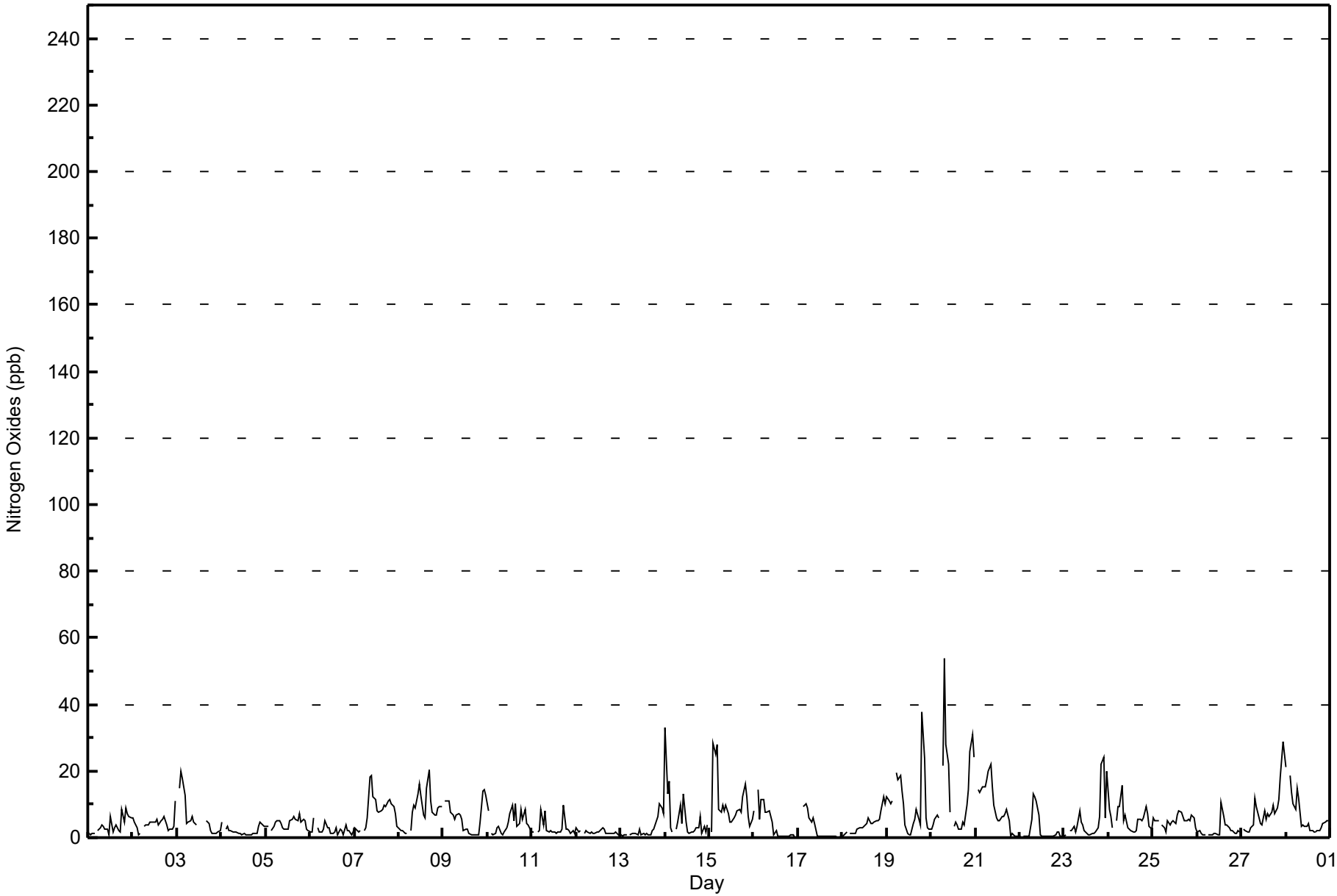
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Anzac - February 2026



Nitrogen Oxides (NO_X) - ppb
Anzac - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	619	97.02	97.02
21 - 40	18	2.82	99.84
11 - 80	1	0.16	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Anzac - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	31	20	15	17	19	39	74	39	20	23	21	35	50	72	65	59	599
21 - 40	0	0	0	0	0	1	0	0	1	1	0	3	4	4	2	2	18
11 - 80	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	31	20	15	17	19	40	74	39	22	24	21	38	54	76	67	61	618

Total Number of Valid Hours: 618

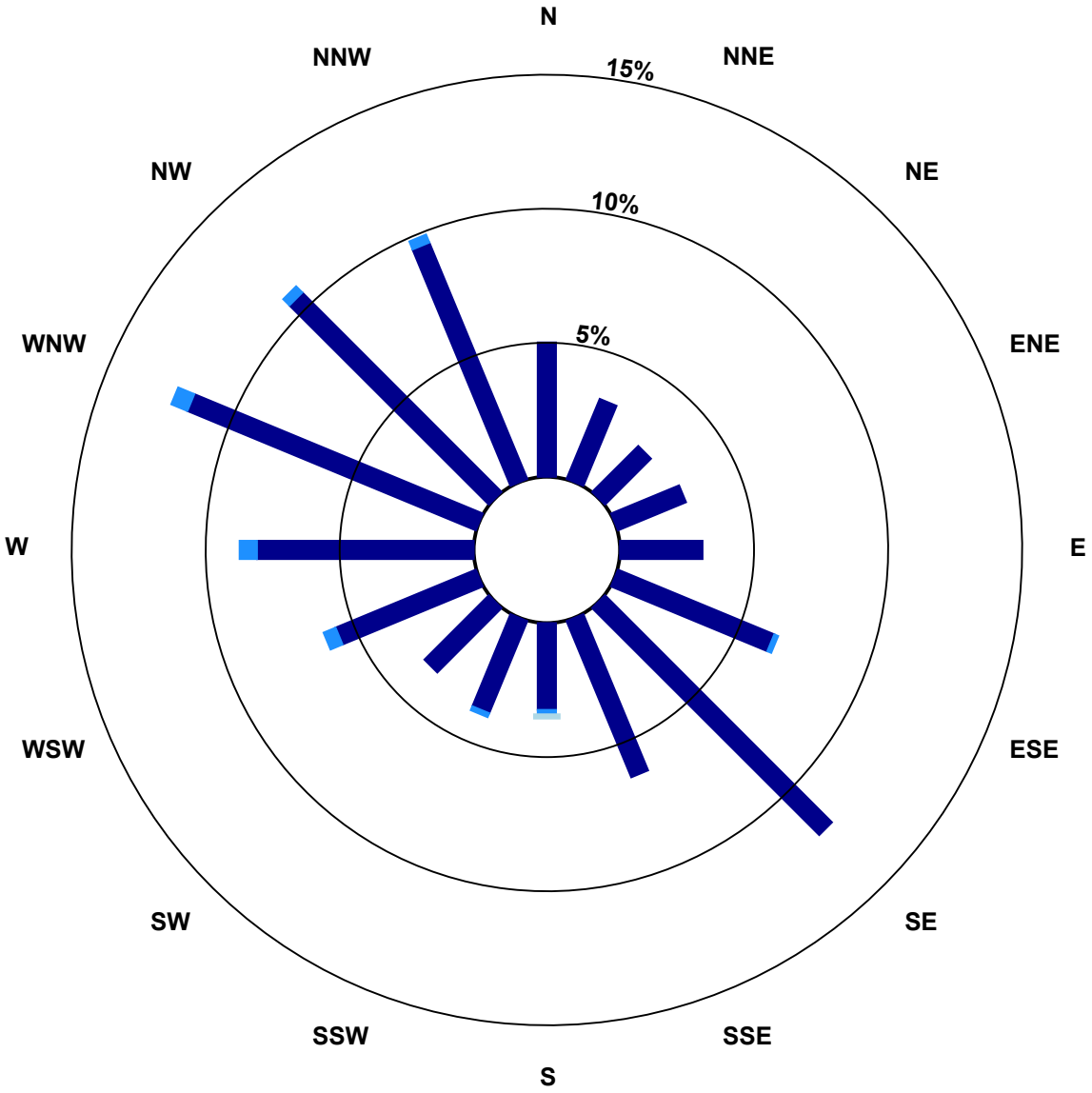
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Anzac



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

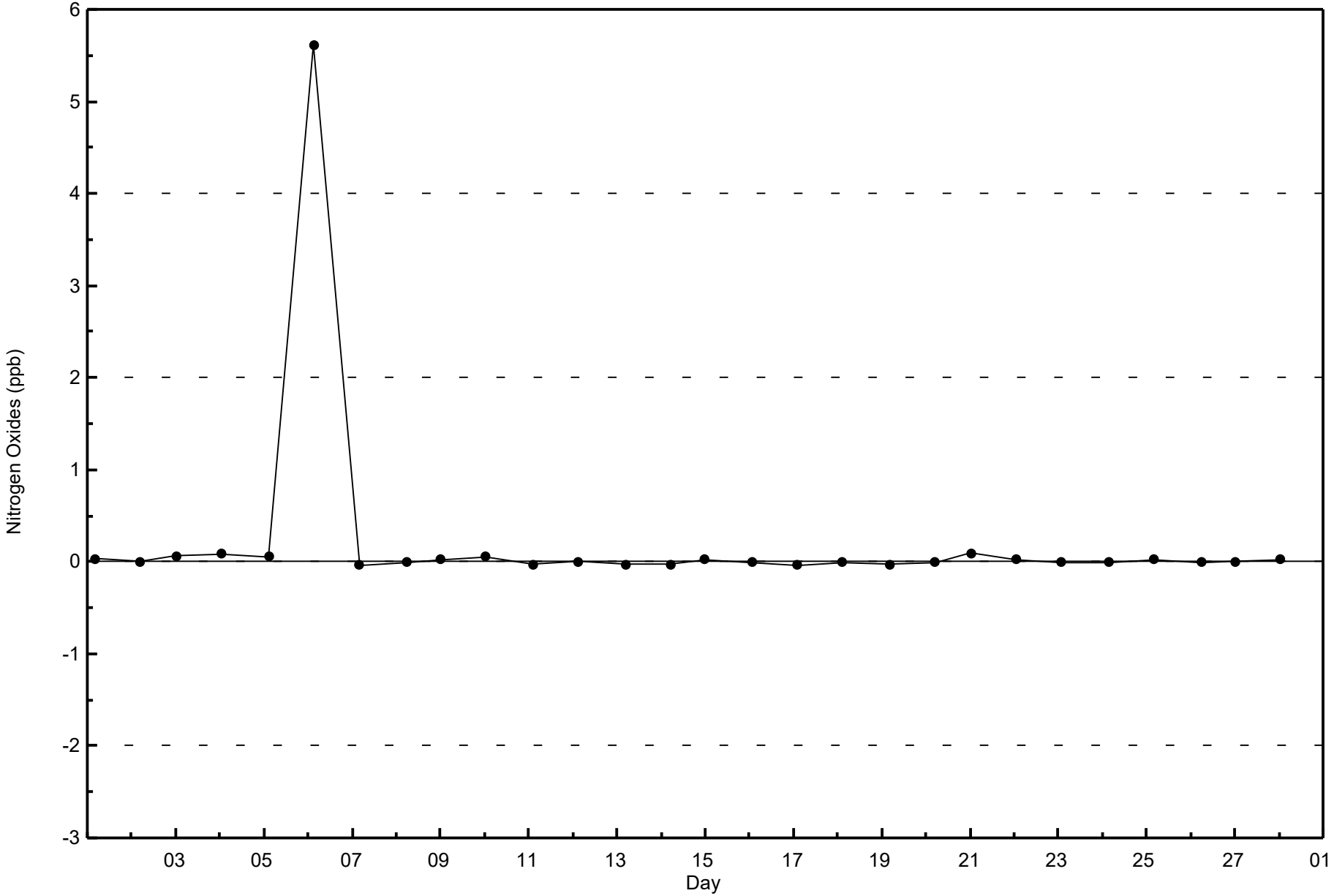
Total Number of Valid Hours: 618

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Anzac - February 2026

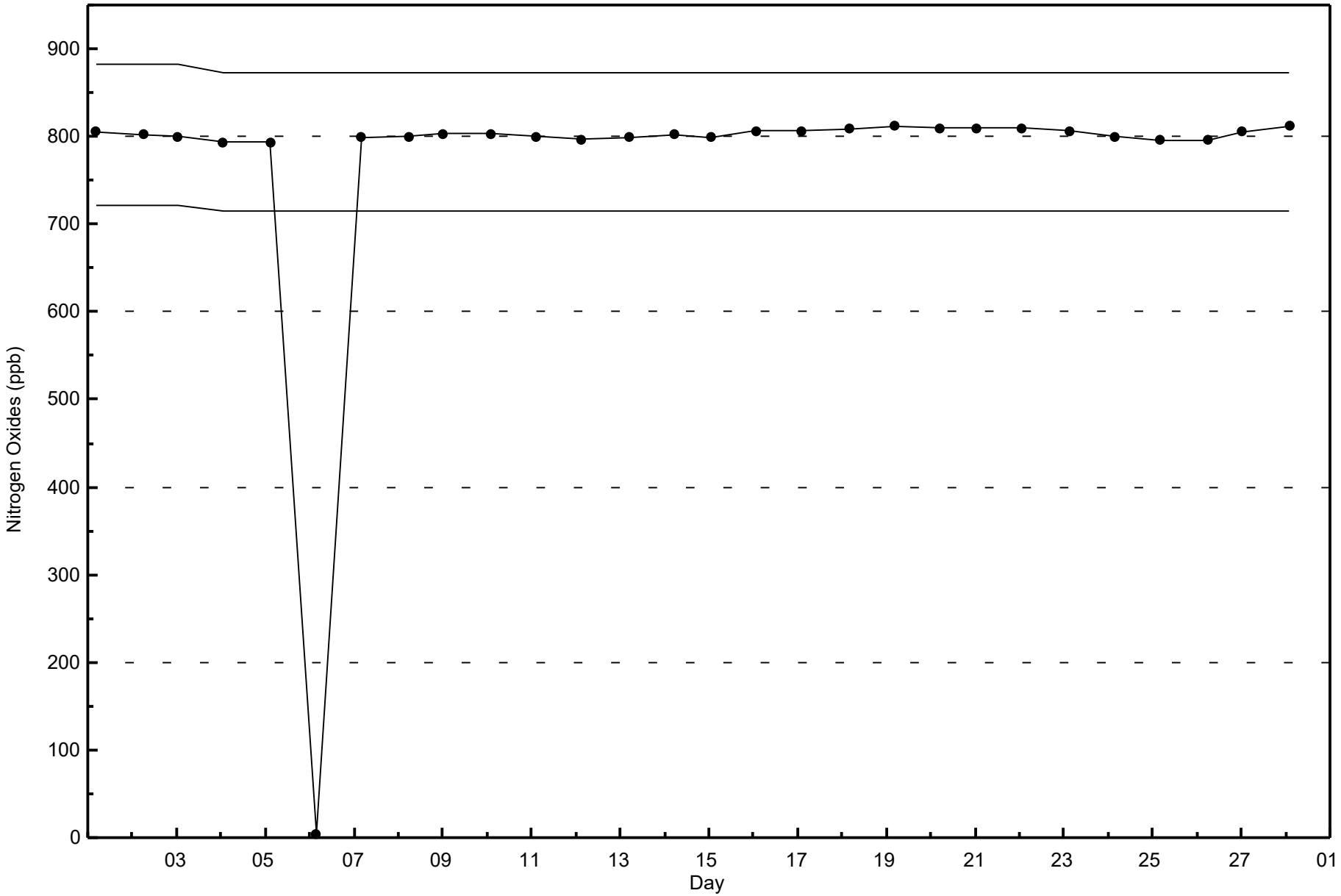


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Anzac - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ozone (O_3) - ppb

Anzac - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 46.2 ppb on Feb 13 16:00
Maximum Daily Average: 43.3 ppb on Feb 13

Minimum Value: 0.0 ppb on Feb 18 21:00
Minimum Daily Average: 3.9 ppb on Feb 18
Maximum Diurnal Average: 29.2 ppb at hour 13
Minimum Diurnal Average: 21.7 ppb at hour 8
Monthly Average: 25.53 ppb
Percentiles: P_1 = 0.0 P_{10} = 11.8 Q_1 = 20.0 Median = 25.6 Q_3 = 31.9 P_{90} = 39.0 P_{99} = 45.3

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	31
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	35.5	36.0	Z	35.6	35.5	34.1	34.0	31.9	32.5	34.0	34.3	35.2	33.7	33.6	32.3	32.0	33.8	34.2	27.9	31.2	26.7	28.0	28.0	27.8	32.5	36.0
2-Feb	27.7	28.3	29.9	Z	30.9	28.6	27.5	26.3	25.6	25.0	25.2	25.1	24.5	23.3	24.1	22.0	18.8	15.9	18.2	18.6	18.6	16.8	16.5	10.1	22.9	30.9
3-Feb	6.0	7.2	2.2	4.3	Z	20.1	21.0	21.1	20.5	22.1	23.5	23.4	22.3	21.7	22.4	21.9	19.3	19.2	22.0	25.4	25.7	26.5	25.5	24.2	19.5	26.5
4-Feb	22.9	23.4	23.5	27.0	30.7	Z	36.1	33.3	32.4	32.9	32.8	33.4	33.6	34.7	35.5	36.6	35.8	35.2	35.0	35.1	28.2	21.5	21.1	21.5	30.5	36.6
5-Feb	Z	20.9	19.4	23.4	21.6	20.6	21.9	23.5	25.7	28.5	30.3	30.3	31.1	29.0	28.7	28.1	27.6	26.6	24.2	26.2	25.0	25.3	28.6	30.0	25.9	31.1
6-Feb	30.1	Z	24.0	24.2	25.4	26.3	26.7	25.5	23.2	25.8	25.5	C	C	C	25.5	26.5	24.5	24.7	25.6	22.9	23.8	24.5	24.1	22.5	25.1	30.1
7-Feb	20.0	18.2	Z	21.4	22.2	21.3	21.5	18.2	8.1	8.5	14.7	18.9	22.9	24.0	23.7	22.5	20.6	19.7	17.4	16.5	16.5	16.4	18.5	22.4	18.9	24.0
8-Feb	23.2	22.6	21.9	Z	22.8	22.0	21.6	14.0	13.5	14.8	13.7	13.6	15.2	19.5	20.4	15.3	10.7	16.7	20.4	21.1	20.9	18.4	17.9	17.9	18.2	23.2
9-Feb	16.1	14.6	13.1	13.1	Z	18.5	19.6	17.4	17.5	18.1	20.1	25.2	25.6	26.0	28.0	28.6	28.8	28.9	28.6	28.4	23.5	14.0	12.8	14.1	20.9	28.9
10-Feb	18.6	25.6	26.4	26.7	27.1	Z	23.5	24.8	24.0	23.4	22.7	21.7	20.8	20.0	19.0	18.1	18.0	16.6	12.6	17.3	23.1	27.8	29.3	30.8	22.5	30.8
11-Feb	Z	32.7	33.4	32.0	32.9	32.3	35.0	33.3	36.6	37.0	38.2	39.2	39.9	40.0	39.7	40.5	39.9	33.0	39.0	38.4	39.3	39.3	40.3	42.7	37.2	42.7
12-Feb	40.8	Z	42.1	41.6	41.7	41.3	40.7	40.7	40.1	40.1	40.7	40.7	40.8	41.8	41.5	41.7	41.7	41.7	42.5	44.3	44.6	44.6	44.4	44.9	42.0	44.9
13-Feb	45.7	45.7	Z	45.3	45.2	44.8	44.3	44.3	44.0	44.3	43.9	44.4	45.0	45.5	45.6	46.2	46.2	44.4	42.5	38.8	37.8	37.6	37.9	37.2	43.3	46.2
14-Feb	29.3	36.7	30.3	Z	40.2	38.4	36.9	35.0	34.6	35.9	35.9	42.2	44.5	43.8	43.4	43.0	41.7	39.2	38.4	34.6	41.0	40.4	40.8	38.6	38.5	44.5
15-Feb	41.6	42.5	12.1	12.3	Z	20.9	18.5	15.8	18.0	19.0	22.0	25.6	26.4	25.6	25.2	24.7	23.9	22.9	16.0	11.5	14.8	19.5	21.6	19.3	21.7	42.5
16-Feb	16.5	14.5	10.0	14.8	9.7	Z	11.7	9.7	12.7	19.1	21.4	22.5	22.1	23.1	23.5	23.4	24.4	22.8	20.0	18.0	15.2	13.9	14.1	15.4	17.3	24.4
17-Feb	Z	18.2	18.5	7.7	5.4	7.0	10.4	12.8	12.8	15.3	19.8	22.3	23.5	24.4	24.9	25.5	25.3	25.1	24.2	25.0	25.5	25.2	24.1	21.9	19.3	25.5
18-Feb	19.9	Z	10.6	7.9	5.8	4.1	3.3	2.9	2.9	3.4	4.2	4.6	4.3	4.3	3.9	3.5	2.7	1.5	0.2	0.3	0.0	0.0	0.0	0.0	3.9	19.9
19-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	3.2	11.7	20.2	23.9	25.4	26.9	29.7	32.0	31.6	25.8	25.5	23.4	22.9	30.0	33.9	34.0	17.4	34.0
20-Feb	33.3	31.2	29.2	Z	28.4	22.4	22.3	18.3	18.9	22.0	30.7	M	35.6	36.5	37.9	37.1	37.7	36.4	34.4	26.7	22.4	10.6	5.7	10.7	26.7	37.9
21-Feb	13.1	13.0	11.6	10.4	Z	9.0	7.5	6.1	M	18.6	26.0	32.3	32.4	29.7	27.4	27.1	25.5	23.0	26.1	31.5	29.9	29.6	28.9	29.1	22.2	32.4
22-Feb	29.8	29.7	29.5	29.4	29.6	Z	17.9	2.7	6.9	11.2	20.2	31.6	31.7	31.4	31.5	31.7	32.1	32.0	31.2	30.3	29.0	28.7	28.8	27.7	26.3	32.1
23-Feb	Z	26.4	24.4	25.4	25.2	23.9	24.9	22.6	20.5	24.4	30.2	M	35.7	34.5	34.1	33.3	33.0	31.1	28.4	24.8	19.6	19.3	23.6	17.5	26.5	35.7
24-Feb	22.1	Z	25.6	24.5	24.6	21.9	21.1	18.8	21.8	23.0	24.8	26.2	30.5	32.7	35.1	37.4	35.0	32.6	31.2	29.0	26.5	26.9	30.3	34.4	27.7	37.4
25-Feb	29.6	28.8	Z	29.0	26.9	29.5	30.6	31.1	28.7	30.2	30.9	31.1	31.8	32.4	32.0	31.2	31.8	31.5	30.7	29.6	28.6	25.9	25.4	29.8	29.9	32.4
26-Feb	29.1	29.0	29.4	Z	32.5	32.7	33.0	33.5	33.6	33.3	33.6	33.8	34.0	23.5	26.5	29.1	29.7	29.3	28.6	28.5	28.8	28.0	25.7	25.0	30.0	34.0
27-Feb	24.5	25.5	28.7	30.8	Z	30.4	29.5	24.8	25.6	27.2	29.1	27.8	25.0	24.6	23.0	23.8	23.1	20.4	20.4	18.7	15.5	12.8	9.4	9.3	23.0	30.8
28-Feb	9.6	10.6	10.9	11.8	14.2	Z	16.2	18.4	30.0	31.2	30.5	31.1	31.1	32.9	31.6	31.3	30.4	30.6	30.2	29.3	29.3	28.0	27.4	27.7	25.0	32.9
	24.4	24.2	22.0	21.7	25.2	23.9	23.5	21.7	22.7	24.3	26.6	28.2	29.2	29.1	29.2	29.1	28.3	27.2	26.5	25.9	25.1	24.3	24.4	24.5	Diurnal Average	
	45.7	45.7	42.1	45.3	45.2	44.8	44.3	44.3	44.0	44.3	43.9	44.4	45.0	45.5	45.6	46.2	46.2	44.4	42.5	44.3	44.6	44.6	44.4	44.9	Diurnal Maximum	

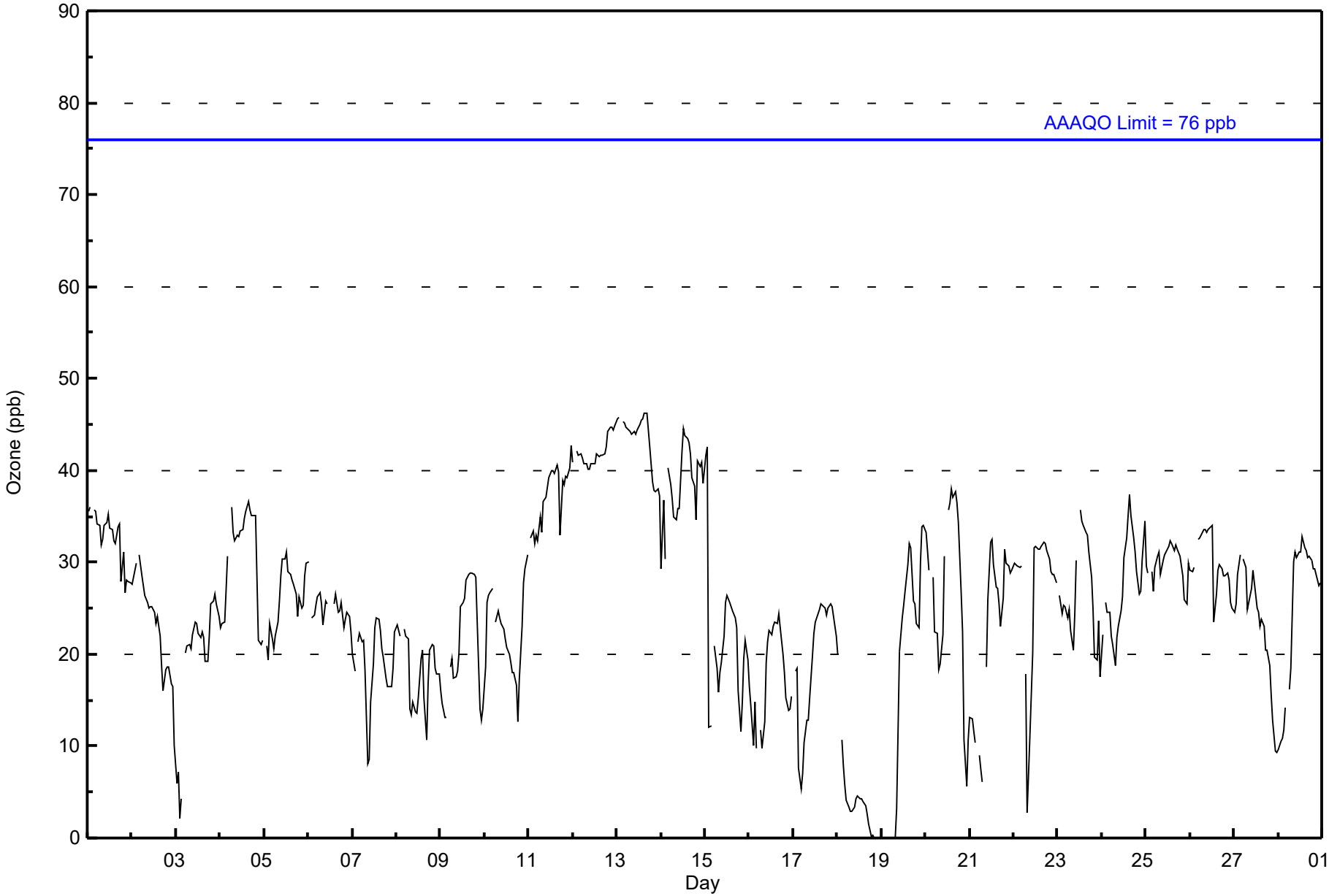
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 76 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ozone (O_3) - ppb

Anzac - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	171	26.80	26.80
21 - 50	467	73.20	100.00
51 - 82	0	0.00	100.00
> 83	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Ozone (O_3) - ppb

Anzac - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	9	5	2	3	5	4	4	7	8	5	2	2	10	31	39	27	163
21 - 50	24	14	13	13	16	35	69	35	14	18	20	34	45	45	28	32	455
51 - 82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	19	15	16	21	39	73	42	22	23	22	36	55	76	67	59	618

Total Number of Valid Hours: 618

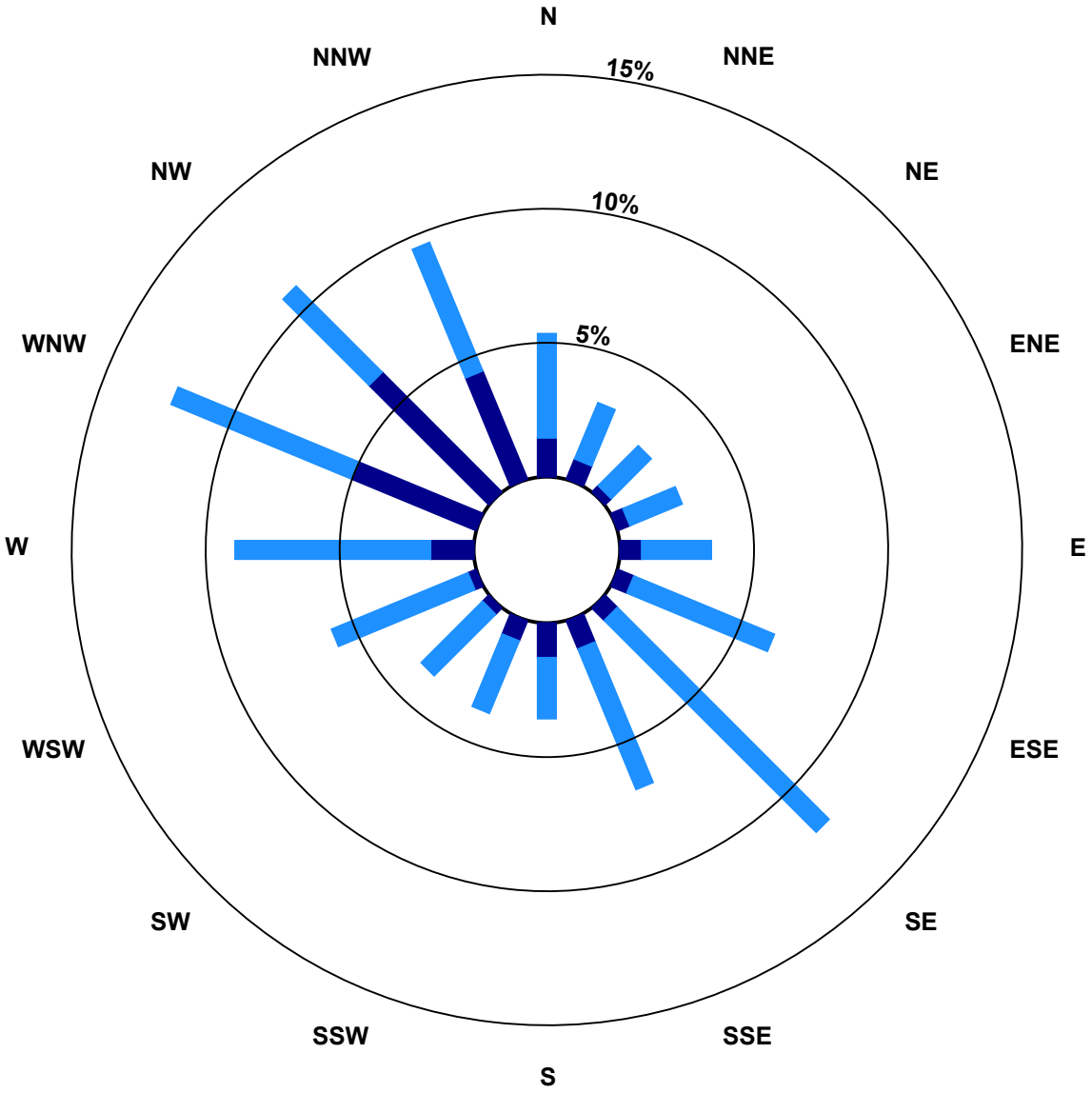
Total Number of Hours: 672

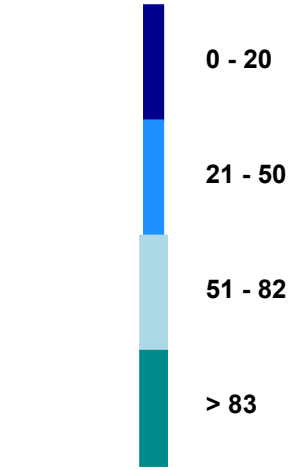
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Ozone (O_3) - ppb

Anzac





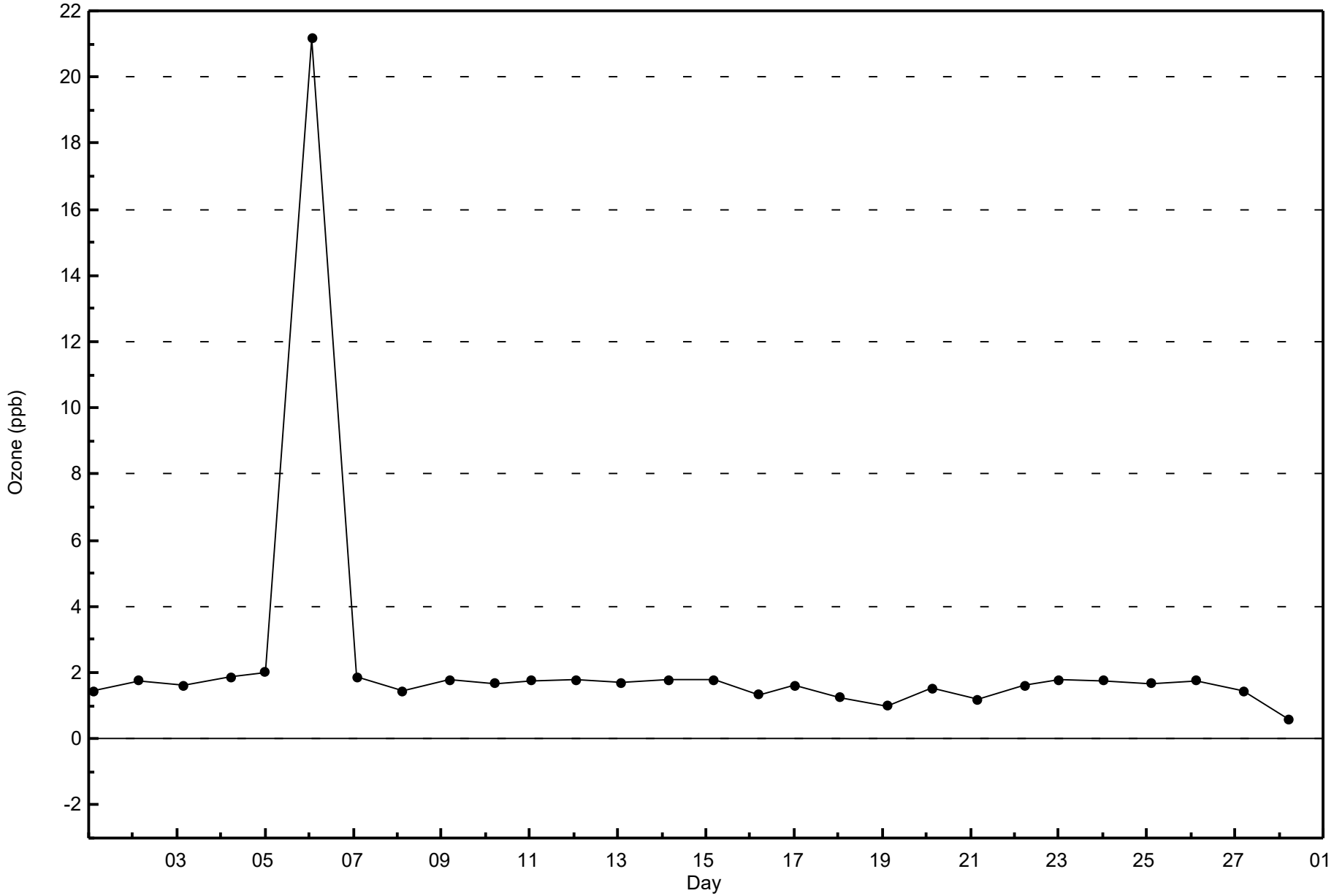
Total Number of Valid Hours: 618

Wood Buffalo Environmental Association

Zero Responses

Ozone (O_3) - ppb

Anzac - February 2026

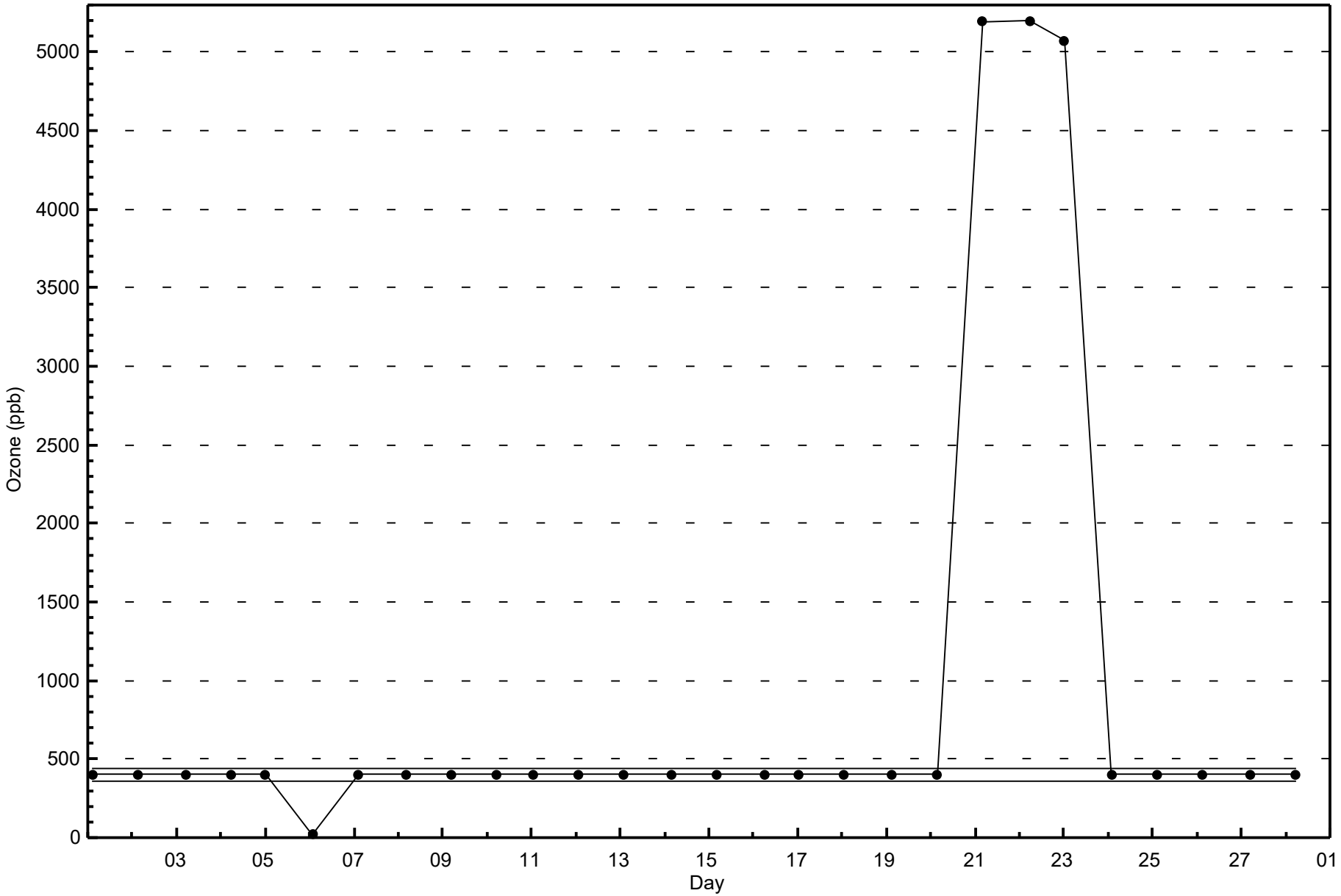


Wood Buffalo Environmental Association

Span Responses

Ozone (O_3) - ppb

Anzac - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Anzac - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 13.0 $\mu g/m^3$ on Feb 8 03:00

Maximum Daily Average: 7.2 $\mu g/m^3$ on Feb 3

Minimum Value: 0.3 $\mu g/m^3$ on Feb 12 17:00

Minimum Daily Average: 1.5 $\mu g/m^3$ on Feb 12

Maximum Diurnal Average: 4.0 $\mu g/m^3$ at hour 23

Minimum Diurnal Average: 3.0 $\mu g/m^3$ at hour 15

Monthly Average: 3.47 $\mu g/m^3$

Percentiles: P_1 = 0.6 P_{10} = 1.7 Q_1 = 2.2 Median = 2.9 Q_3 = 4.4 P_{90} = 6.2 P_{99} = 9.7

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.8	2.6	2.6	2.5	2.5	2.5	3.0	3.1	2.7	2.5	2.4	2.5	2.6	2.4	2.4	1.9	1.4	1.3	1.4	1.4	1.5	1.7	1.8	1.9	2.2	3.1
2-Feb	1.7	1.6	1.8	2.0	2.3	2.7	3.0	3.2	3.3	3.5	3.8	4.1	4.2	4.4	4.4	5.4	7.6	8.2	6.6	6.7	5.9	7.5	7.7	10.6	4.7	10.6
3-Feb	9.1	8.4	9.9	9.5	10.1	8.8	7.3	6.0	6.3	6.4	7.6	8.5	8.4	7.5	7.3	6.7	7.6	7.3	9.3	5.3	4.7	3.9	3.6	3.9	7.2	10.1
4-Feb	4.8	5.4	5.7	5.2	4.7	2.7	2.5	2.8	2.6	2.2	1.9	1.6	1.5	1.0	0.6	0.6	1.0	0.6	0.5	0.7	1.9	4.0	6.4	7.7	2.9	7.7
5-Feb	8.3	5.8	3.9	2.1	2.7	3.4	3.1	2.3	2.3	2.3	2.0	2.2	2.2	2.9	2.7	3.5	3.3	3.3	2.9	2.5	2.7	2.8	2.5	2.5	3.1	8.3
6-Feb	2.3	2.3	2.7	2.8	3.2	3.1	3.0	2.9	3.0	3.1	3.0	3.0	3.0	3.0	3.2	3.0	3.1	3.0	2.7	2.9	3.2	3.2	3.6	3.9	3.0	3.9
7-Feb	4.9	4.5	3.3	3.1	3.4	4.8	5.0	5.6	5.6	6.2	6.8	5.7	4.7	4.3	5.3	6.2	6.7	7.9	8.4	7.9	7.0	7.1	8.1	10.5	6.0	10.5
8-Feb	9.3	11.8	13.0	8.7	7.3	6.5	6.1	5.1	5.2	5.1	4.7	5.3	5.2	4.8	4.6	5.6	5.3	5.4	5.3	5.2	4.8	4.8	5.9	5.1	6.3	13.0
9-Feb	5.0	5.1	5.2	5.0	4.2	4.2	4.0	4.0	4.2	4.1	4.3	4.0	4.7	5.2	4.5	4.5	4.7	4.8	4.8	4.1	4.6	6.5	6.9	6.2	4.8	6.9
10-Feb	4.8	4.4	4.6	5.1	5.4	5.9	5.7	6.5	5.3	5.7	5.9	5.8	5.7	5.7	5.9	6.2	7.0	7.3	7.6	6.9	4.1	3.0	2.8	2.7	5.4	7.6
11-Feb	2.6	2.9	2.6	2.7	3.0	3.1	2.5	2.2	1.6	1.4	1.4	1.2	1.0	1.7	1.1	1.1	1.4	1.8	3.1	2.9	2.6	2.0	1.9	2.7	2.1	3.1
12-Feb	3.1	2.8	2.5	2.7	2.6	2.0	1.6	1.2	1.0	0.9	1.0	1.3	1.3	0.7	0.5	0.3	0.3	0.3	0.5	1.4	2.5	2.6	2.4	1.7	1.5	3.1
13-Feb	1.2	1.4	1.5	1.7	1.7	1.9	2.0	2.2	2.4	2.4	2.5	2.4	2.4	2.2	2.0	1.8	1.7	2.5	2.3	2.3	2.6	2.8	2.6	2.2	2.1	2.8
14-Feb	2.5	2.2	2.2	2.4	2.3	2.3	2.5	4.0	2.9	2.9	4.0	6.2	5.8	2.4	2.5	2.6	3.1	3.7	4.3	4.3	3.6	5.8	6.4	8.5	3.7	8.5
15-Feb	6.2	5.5	7.2	4.6	5.3	4.5	5.1	6.7	6.3	6.3	5.6	4.9	4.2	4.4	4.8	4.1	3.7	4.2	7.8	9.6	7.5	4.9	3.3	2.5	5.4	9.6
16-Feb	1.8	2.2	2.7	2.9	3.1	3.0	3.0	3.0	4.3	4.1	3.0	1.9	1.7	1.5	1.4	1.4	1.2	1.3	1.5	1.7	2.0	2.0	2.1	2.1	2.3	4.3
17-Feb	1.9	2.1	2.2	5.3	5.8	5.1	3.8	3.3	3.6	3.1	2.1	2.0	2.0	2.1	2.2	2.2	2.2	2.4	2.1	2.0	2.0	1.7	1.9	1.9	2.7	5.8
18-Feb	1.8	1.7	1.8	1.9	1.8	1.9	1.9	1.9	2.2	2.2	2.1	2.4	2.6	2.7	3.0	2.4	2.4	2.4	2.5	3.0	3.3	4.5	4.4	3.1	2.5	4.5
19-Feb	2.8	2.8	2.8	2.8	2.7	3.2	3.4	3.4	3.7	3.5	2.0	1.8	2.6	2.7	3.5	3.2	3.8	2.8	2.7	9.1	4.7	2.0	1.8	1.8	3.1	9.1
20-Feb	2.0	2.2	2.4	2.5	2.4	3.4	2.7	3.6	3.4	3.0	3.1	2.9	2.6	2.5	2.3	2.4	2.3	2.1	2.6	4.0	4.5	5.4	6.0	4.3	3.1	6.0
21-Feb	3.7	3.5	3.3	3.4	3.4	3.3	3.4	3.4	4.0	3.5	3.0	2.7	2.7	2.6	2.8	2.8	2.9	4.0	2.8	2.2	2.2	2.3	2.2	2.1	3.0	4.0
22-Feb	2.1	2.1	2.1	2.0	2.1	2.1	2.4	3.6	3.1	3.0	2.5	1.5	1.3	1.2	1.2	1.3	1.3	1.4	1.6	1.8	1.7	1.7	1.6	1.6	1.9	3.6
23-Feb	1.6	1.7	1.9	1.9	2.1	1.7	1.8	2.1	2.5	1.9	1.9	1.4	1.4	1.4	1.4	1.5	1.4	1.6	1.7	2.0	2.1	2.4	5.4	2.8	2.0	5.4
24-Feb	3.2	2.6	2.5	2.3	2.4	2.6	2.8	3.1	3.4	3.9	3.7	3.3	3.0	2.7	2.6	2.5	2.9	2.6	2.6	2.9	2.9	2.8	2.8	2.5	2.8	3.9
25-Feb	2.8	3.0	3.5	4.5	4.2	3.5	3.5	3.3	3.4	3.4	3.5	4.6	5.5	5.3	4.9	4.4	4.5	4.3	4.3	4.8	4.6	4.5	4.5	3.8	4.1	5.5
26-Feb	3.6	3.6	3.5	3.6	4.1	4.4	4.3	4.3	4.1	4.0	4.3	4.6	3.9	3.3	2.8	2.6	2.4	2.3	2.4	2.2	1.9	1.9	1.9	1.9	3.2	4.6
27-Feb	1.8	1.9	1.9	1.7	1.7	1.7	1.8	2.7	2.4	2.3	2.1	2.1	2.6	2.5	2.7	2.6	2.5	2.6	2.9	2.7	3.3	2.9	2.8	2.7	2.4	3.3
28-Feb	2.8	3.7	3.2	2.6	2.1	2.2	2.0	1.9	1.9	2.2	2.0	2.0	2.4	2.5	2.6	3.1	3.5	3.4	4.3	4.5	11.3	7.5	8.6	7.2	3.7	11.3
	3.6	3.6	3.7	3.5	3.5	3.4	3.3	3.5	3.5	3.4	3.3	3.3	3.2	3.1	3.0	3.1	3.2	3.4	3.6	3.8	3.8	3.7	4.0	3.9	Diurnal Average	
	9.3	11.8	13.0	9.5	10.1	8.8	7.3	6.7	6.3	6.4	7.6	8.5	8.4	7.5	7.3	6.7	7.6	8.2	9.3	9.6	11.3	7.5	8.6	10.6	Diurnal Maximum	

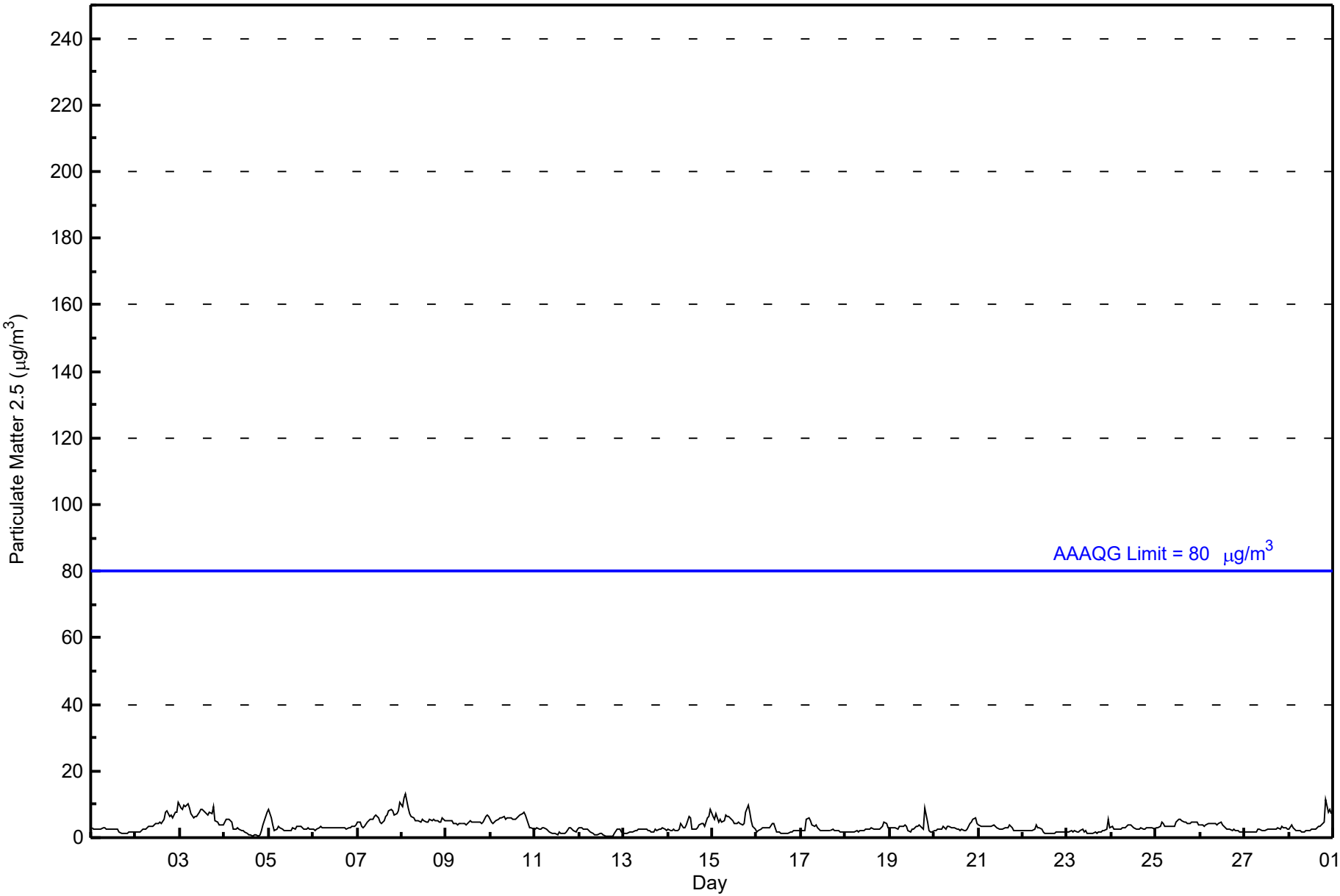
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Anzac - February 2026





Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Anzac - February 2026

Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	578	86.01	86.01
6 - 15	94	13.99	100.00
16 - 25	0	0.00	100.00
26 - 80	0	0.00	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Anzac - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	31	18	15	17	23	37	63	34	23	21	22	39	50	70	56	46	565
6 - 15	2	2	0	0	0	5	16	9	1	3	2	0	6	9	14	17	86
16 - 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	20	15	17	23	42	79	43	24	24	24	39	56	79	70	63	651

Total Number of Valid Hours: 651

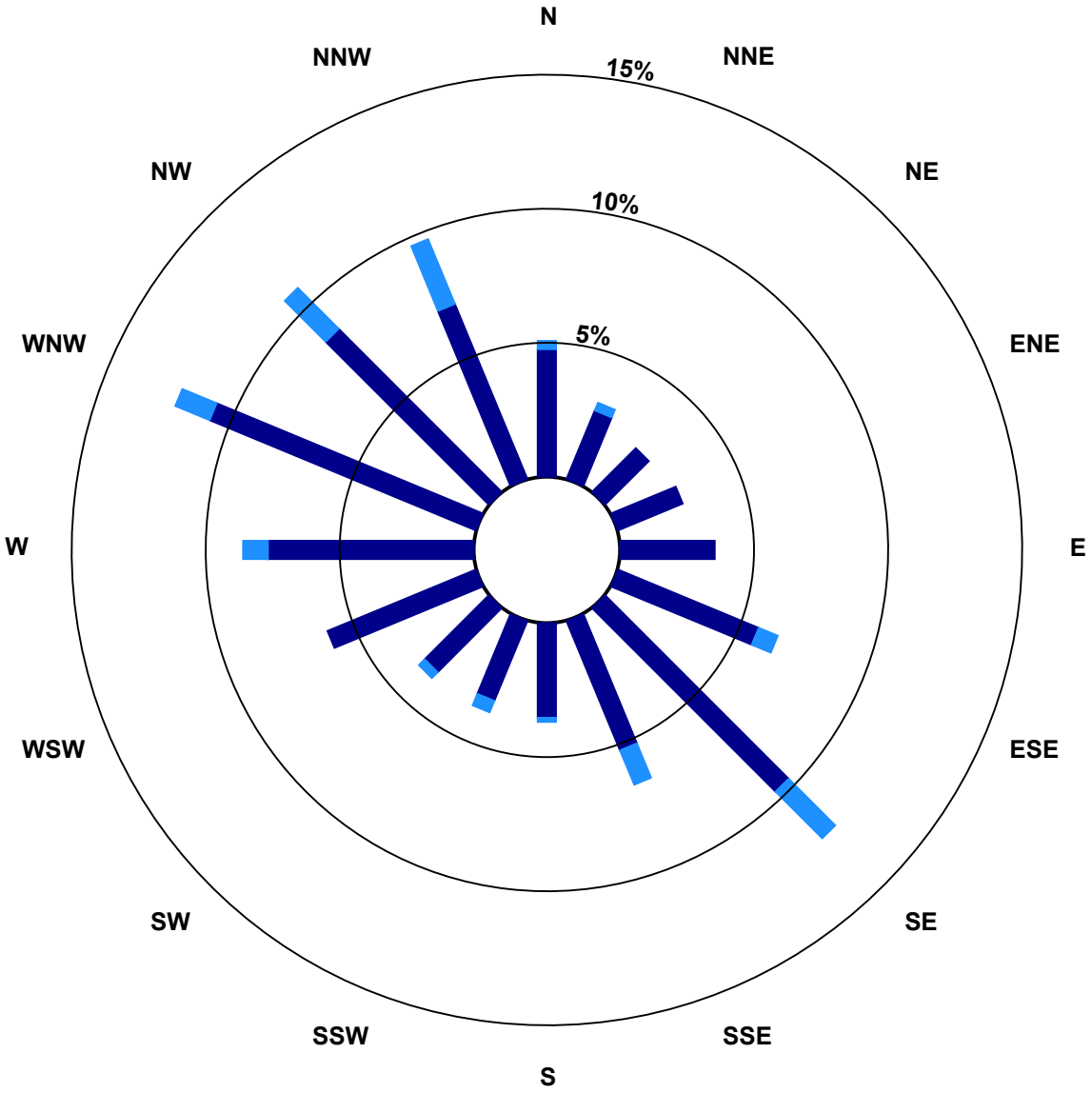
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Anzac



Classes ($\mu g/m^3$)

- 0 - 5
- 6 - 15
- 16 - 25
- 26 - 80
- > 81.0

Total Number of Valid Hours: 651

Maximum Value: 9.0 C on Feb 4 16:00

Maximum Daily Average: 4.0 C on Feb 4

Minimum Value: -39.6 C on Feb 19 06:00

Minimum Daily Average: -30.9 C on Feb 18

Maximum Diurnal Average: -10.3 C at hour 16

Minimum Diurnal Average: -16.4 C at hour 8

Monthly Average: -13.52 C

Percentiles: P_1 = -37.7 P_{10} = -27.9 Q_1 = -21.2 Median = -12.6 Q_3 = -6.1 P_{90} = 0.8 P_{99} = 6.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

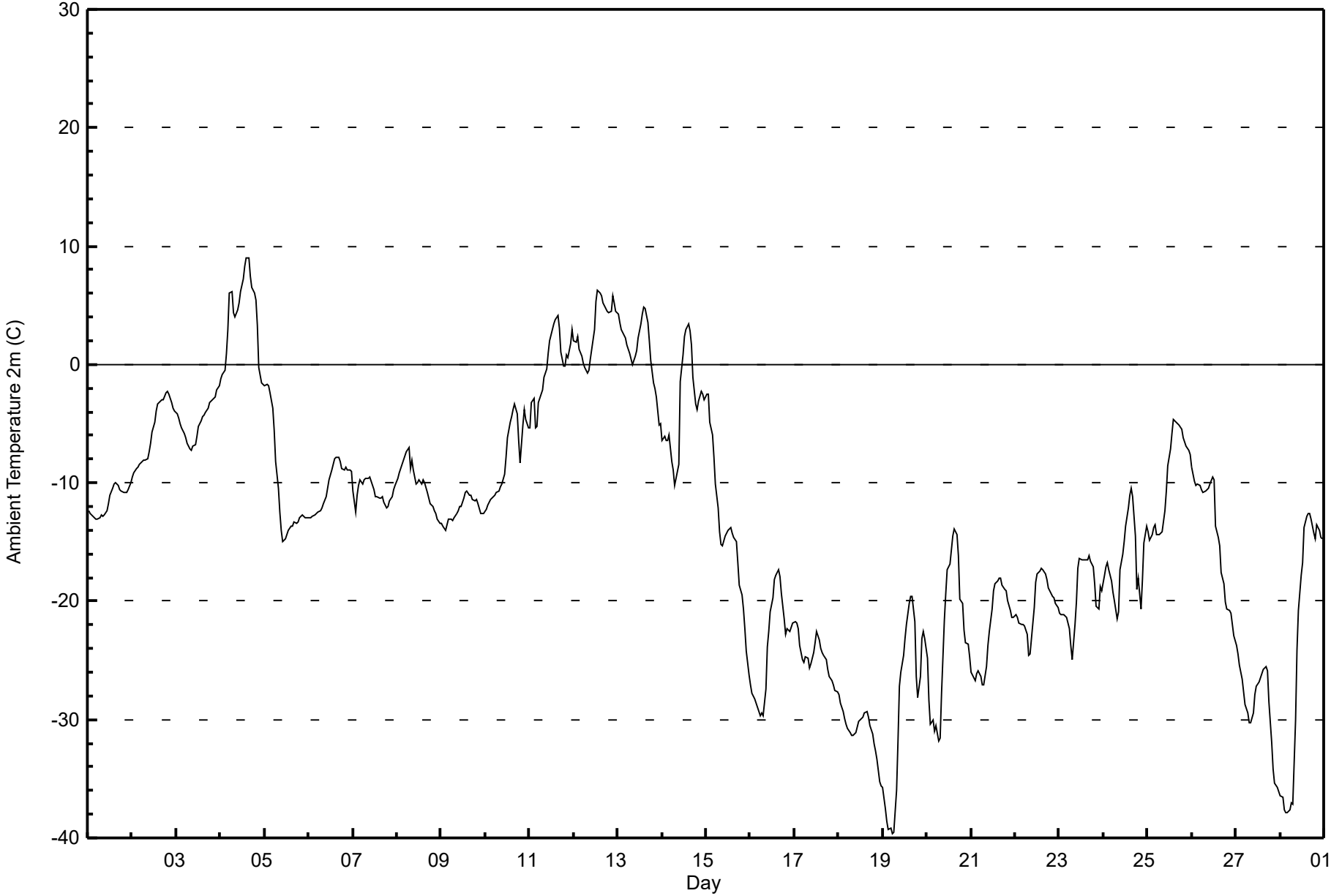
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.3	-12.6	-12.8	-12.9	-13.0	-13.1	-12.9	-12.7	-12.8	-12.7	-12.4	-11.8	-11.0	-10.4	-10.1	-9.9	-10.2	-10.6	-10.7	-10.9	-10.8	-10.8	-10.6	-9.9	-11.6	-9.9
2-Feb	-9.5	-9.2	-8.8	-8.6	-8.5	-8.2	-8.1	-8.1	-7.9	-7.4	-6.7	-5.7	-4.9	-3.9	-3.3	-3.1	-3.0	-3.0	-2.4	-2.3	-2.5	-3.2	-3.7	-4.0	-5.7	-2.3
3-Feb	-4.2	-4.6	-5.0	-5.4	-5.9	-6.2	-6.7	-7.2	-7.2	-6.9	-6.7	-6.1	-5.3	-4.7	-4.4	-4.2	-4.1	-3.6	-3.2	-3.1	-2.9	-2.7	-2.2	-1.8	-4.8	-1.8
4-Feb	-1.2	-0.9	-0.5	1.0	2.9	6.0	6.2	4.4	4.0	4.6	5.1	6.1	7.3	8.3	9.0	9.0	7.4	6.5	6.1	5.5	3.3	-0.2	-1.5	-1.7	4.0	9.0
5-Feb	-1.8	-1.7	-1.8	-2.4	-3.6	-5.6	-8.2	-10.5	-12.4	-14.0	-15.0	-14.8	-14.4	-14.0	-13.7	-13.6	-13.3	-13.4	-13.3	-12.9	-12.8	-12.9	-13.0	-13.0	-10.5	-1.7
6-Feb	-13.0	-13.0	-12.8	-12.7	-12.5	-12.5	-12.3	-12.2	-11.7	-11.1	-10.4	-9.7	-8.9	-8.4	-8.0	-7.9	-7.9	-8.2	-8.8	-8.9	-8.7	-8.9	-8.9	-9.1	-10.3	-7.9
7-Feb	-10.7	-12.5	-11.0	-10.2	-9.8	-10.1	-9.8	-9.7	-9.7	-9.5	-9.9	-10.6	-11.1	-11.1	-11.2	-11.3	-11.2	-11.7	-12.2	-12.0	-11.5	-11.1	-10.6	-10.2	-10.8	-9.5
8-Feb	-9.6	-9.1	-8.8	-8.1	-7.7	-7.3	-7.0	-8.8	-8.1	-8.9	-10.1	-10.0	-9.7	-10.1	-9.7	-10.0	-10.8	-11.2	-11.8	-12.0	-12.3	-12.6	-13.0	-13.5	-10.0	-7.0
9-Feb	-13.4	-13.7	-14.1	-13.6	-13.1	-13.1	-13.2	-12.9	-12.6	-12.3	-11.9	-12.0	-11.3	-10.8	-10.7	-11.1	-11.1	-11.4	-11.5	-11.4	-11.7	-12.6	-12.6	-12.5	-12.3	-10.7
10-Feb	-12.3	-11.9	-11.6	-11.4	-11.2	-11.1	-10.8	-10.7	-10.4	-10.1	-9.3	-7.9	-6.2	-4.9	-4.4	-3.8	-3.3	-4.1	-6.5	-8.3	-5.1	-3.8	-4.6	-5.4	-7.9	-3.3
11-Feb	-5.4	-3.2	-2.8	-5.4	-5.2	-3.2	-2.6	-2.1	-1.1	-0.3	1.0	2.0	3.0	3.4	3.8	4.1	3.0	1.0	-0.1	-0.2	0.8	0.6	1.7	3.0	-0.2	4.1
12-Feb	2.0	1.9	2.4	1.3	0.7	0.2	-0.3	-0.7	-0.5	0.5	1.3	2.9	5.3	6.3	6.0	5.8	5.2	4.8	4.5	4.3	4.5	5.8	5.2	4.5	3.1	6.3
13-Feb	4.3	3.6	3.0	2.5	2.2	1.6	1.0	0.5	0.0	0.7	1.2	2.2	3.5	4.3	4.9	4.8	3.6	2.0	0.4	-1.5	-2.1	-2.8	-5.1	-5.0	1.2	4.9
14-Feb	-6.4	-6.1	-6.4	-6.4	-6.0	-8.2	-8.9	-10.2	-9.0	-8.4	-1.5	0.8	2.4	3.0	3.4	2.8	1.6	-1.1	-3.4	-3.8	-3.1	-2.2	-2.5	-3.0	-3.4	3.4
15-Feb	-2.6	-2.5	-4.8	-5.9	-7.8	-10.1	-12.1	-14.2	-15.2	-15.3	-14.5	-14.3	-14.0	-13.8	-14.2	-14.6	-14.9	-16.8	-18.7	-19.5	-20.6	-22.4	-24.3	-26.2	-14.1	-2.5
16-Feb	-27.1	-27.8	-28.3	-28.6	-29.0	-29.6	-29.5	-29.6	-27.4	-23.9	-22.6	-20.9	-19.7	-18.2	-17.8	-17.3	-17.9	-19.3	-21.5	-22.8	-22.4	-22.5	-22.2	-21.8	-23.7	-17.3
17-Feb	-21.7	-21.8	-22.3	-23.7	-25.0	-25.1	-24.7	-24.8	-25.7	-25.3	-24.4	-23.5	-22.6	-23.3	-24.0	-24.3	-24.5	-25.0	-25.8	-26.4	-26.7	-27.1	-27.5	-27.7	-24.7	-21.7
18-Feb	-27.9	-28.6	-29.3	-30.0	-30.4	-30.7	-31.1	-31.3	-31.3	-31.1	-30.7	-30.2	-29.9	-29.8	-29.4	-29.3	-29.8	-30.5	-31.2	-32.0	-32.6	-33.4	-35.2	-35.6	-30.9	-27.9
19-Feb	-35.8	-37.5	-38.5	-39.2	-39.2	-39.6	-39.5	-36.0	-31.8	-27.2	-26.0	-24.6	-23.1	-22.0	-20.2	-19.5	-19.6	-21.8	-26.3	-28.1	-26.3	-23.2	-22.6	-23.1	-28.8	-19.5
20-Feb	-24.8	-28.4	-30.4	-30.1	-31.0	-30.5	-31.8	-31.6	-27.8	-21.6	-19.4	-17.4	-16.9	-15.7	-14.5	-13.9	-14.4	-16.2	-19.8	-20.2	-22.5	-23.5	-23.6	-24.7	-22.9	-13.9
21-Feb	-26.0	-26.5	-26.7	-26.2	-25.9	-26.3	-27.1	-27.1	-25.5	-23.7	-22.5	-20.6	-19.1	-18.6	-18.3	-18.1	-18.0	-18.6	-19.1	-19.1	-20.0	-20.8	-21.4	-21.3	-22.4	-18.0
22-Feb	-21.2	-21.4	-21.8	-22.0	-22.0	-22.1	-22.8	-24.6	-24.4	-23.2	-20.6	-18.5	-17.7	-17.5	-17.3	-17.4	-17.7	-18.1	-18.8	-19.3	-19.6	-19.8	-20.2	-20.6	-20.4	-17.3
23-Feb	-21.0	-21.2	-21.1	-21.3	-21.3	-22.4	-23.7	-24.9	-21.9	-20.1	-17.3	-16.4	-16.5	-16.5	-16.5	-16.5	-16.2	-16.7	-17.2	-18.5	-20.5	-20.7	-18.7	-19.1	-19.4	-16.2
24-Feb	-17.8	-17.1	-16.8	-17.4	-18.3	-19.3	-20.0	-21.5	-20.9	-17.3	-16.0	-14.9	-13.6	-12.2	-11.0	-10.5	-11.1	-14.5	-19.0	-18.1	-20.6	-18.2	-15.0	-13.6	-16.4	-10.5
25-Feb	-14.1	-14.9	-14.3	-13.8	-13.6	-14.4	-14.3	-14.2	-14.1	-12.4	-10.7	-8.6	-7.1	-5.9	-4.7	-4.9	-5.0	-5.1	-5.5	-6.1	-6.6	-6.9	-7.3	-7.6	-9.7	-4.7
26-Feb	-8.7	-9.9	-10.2	-10.1	-10.2	-10.5	-10.8	-10.7	-10.5	-10.4	-10.1	-9.5	-9.8	-13.7	-14.6	-15.3	-17.6	-18.5	-20.0	-20.6	-20.7	-21.1	-22.0	-23.0	-14.1	-8.7
27-Feb	-23.8	-24.4	-25.4	-26.6	-27.7	-28.7	-29.4	-30.3	-30.3	-29.4	-27.9	-27.2	-26.8	-26.4	-26.1	-25.8	-25.5	-25.9	-28.5	-32.0	-34.2	-35.4	-35.8	-36.1	-28.7	-23.8
28-Feb	-36.4	-36.6	-37.6	-37.9	-37.9	-37.7	-37.0	-37.1	-30.0	-24.1	-20.8	-17.9	-16.7	-13.7	-12.8	-12.6	-12.6	-13.0	-14.3	-14.7	-13.5	-14.0	-14.6	-14.7	-23.3	-12.6
	-14.4	-14.7	-15.0	-15.2	-15.4	-15.6	-16.0	-16.4	-15.6	-14.3	-13.2	-12.1	-11.3	-10.7	-10.3	-10.3	-10.7	-11.6	-12.8	-13.4	-13.6	-13.8	-14.0	-14.2	Diurnal Average	
	4.3	3.6	3.0	2.5	2.9	6.0	6.2	4.4	4.0	4.6	5.1	6.1	7.3	8.3	9.0	9.0	7.4	6.5	6.1	5.5	4.5	5.8	5.2	4.5	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Anzac - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	192	28.57	28.57
-20 - 0	404	60.12	88.69
0 - 10	76	11.31	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 99.2 % on Feb 5 01:00

Maximum Daily Average: 92.3 % on Feb 10

Minimum Value: 34.6 % on Feb 13 16:00

Minimum Daily Average: 45.0 % on Feb 13

Maximum Diurnal Average: 80.3 % at hour 8

Minimum Diurnal Average: 68.3 % at hour 15

Monthly Average: 76.05 %

Percentiles: P_1 = 41.5 P_{10} = 56.1 Q_1 = 68.3 Median = 77.0 Q_3 = 88.1 P_{90} = 91.3 P_{99} = 97.1

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

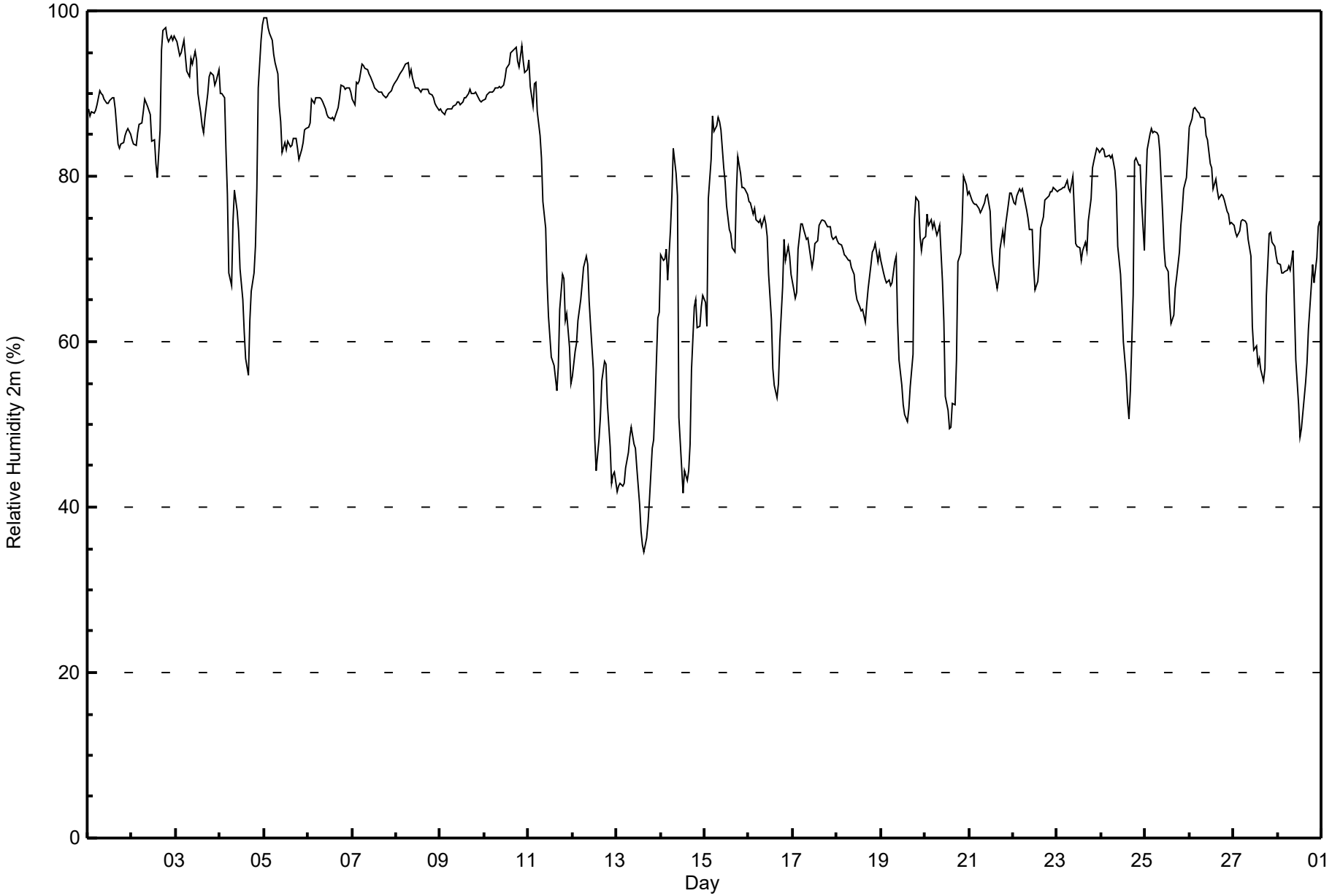
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	88.1	87.3	87.7	87.6	88.0	88.6	90.4	90.1	89.8	89.4	88.8	88.8	89.2	89.6	89.6	88.1	84.0	83.5	83.8	84.0	84.9	85.4	85.8	85.1	87.4	90.4
2-Feb	84.3	83.9	83.7	85.2	86.2	86.4	87.9	89.4	88.5	88.0	87.4	84.3	84.4	81.5	79.8	85.6	95.2	97.6	97.9	96.9	96.3	96.9	96.5	97.0	89.2	97.9
3-Feb	96.3	95.5	94.6	94.9	96.4	94.5	92.7	92.0	94.2	93.5	95.1	94.1	90.0	87.6	86.1	85.2	87.1	89.9	92.0	92.6	92.2	91.0	91.5	92.8	92.2	96.4
4-Feb	89.9	90.1	89.4	83.0	77.7	68.3	66.8	74.5	78.4	75.7	73.4	68.8	65.0	61.1	58.0	56.0	62.5	66.2	68.3	71.6	78.5	90.6	96.4	98.3	75.4	98.3
5-Feb	99.2	99.1	98.0	97.3	96.4	94.7	93.7	92.3	88.4	86.6	82.9	84.0	83.2	84.2	83.6	83.8	84.5	84.6	83.3	82.0	83.3	84.1	85.6	85.7	88.4	99.2
6-Feb	86.0	86.5	89.3	88.9	89.5	89.6	89.6	89.3	89.1	88.1	87.5	87.1	87.0	87.1	86.8	87.3	88.2	89.5	91.0	90.8	90.5	90.7	90.6	90.2	88.7	91.0
7-Feb	89.4	88.6	91.3	91.2	91.5	93.5	93.4	93.0	92.8	92.4	92.0	91.2	90.7	90.5	90.2	90.2	90.2	89.9	89.5	89.7	90.0	90.3	90.9	91.3	91.0	93.5
8-Feb	91.7	92.1	92.3	92.9	93.2	93.5	93.8	92.2	92.8	91.9	90.8	90.7	90.7	90.2	90.5	90.5	90.5	90.6	90.1	89.8	89.5	88.9	88.5	88.0	91.1	93.8
9-Feb	88.1	87.8	87.5	88.0	88.2	88.2	88.2	88.4	88.6	88.9	89.0	88.6	89.0	89.5	89.6	90.0	90.5	90.0	90.0	90.2	89.9	89.1	89.1	89.1	89.0	90.5
10-Feb	89.3	89.8	89.9	90.1	90.2	90.4	90.6	90.7	90.8	90.7	91.0	91.9	93.0	93.5	94.9	95.1	95.3	95.6	94.0	93.2	95.7	94.0	92.6	92.8	92.3	95.7
11-Feb	94.1	90.8	88.4	91.3	91.4	87.8	84.8	82.2	77.0	73.7	67.3	63.0	58.1	57.7	57.2	54.1	56.9	64.0	68.1	67.7	62.5	63.4	59.4	55.0	71.5	94.1
12-Feb	55.8	58.8	59.8	62.6	65.2	66.9	68.9	70.3	69.4	65.0	62.0	56.6	48.3	44.4	48.1	50.8	55.3	57.6	57.3	52.5	47.2	42.9	44.0	44.2	56.4	70.3
13-Feb	41.8	42.6	42.9	42.6	42.9	44.7	46.6	48.4	49.7	47.5	47.1	44.8	40.4	37.2	35.5	34.6	36.3	38.2	40.9	47.0	48.2	52.5	62.9	63.5	45.0	63.5
14-Feb	70.5	69.8	70.0	71.2	67.5	73.6	77.6	83.5	80.3	77.6	50.9	44.8	41.7	44.5	43.3	44.5	47.6	56.6	64.2	65.1	61.7	61.9	64.2	65.6	62.4	83.5
15-Feb	64.8	61.9	77.3	82.1	87.3	85.5	86.0	87.2	86.7	85.5	81.0	79.4	76.5	73.5	73.1	71.4	70.8	77.9	82.4	80.3	78.7	78.7	78.4	77.8	78.5	87.3
16-Feb	76.9	76.7	75.4	76.2	74.7	74.4	74.7	73.8	75.1	74.2	72.6	68.1	62.7	56.7	54.7	53.3	54.9	60.0	66.7	72.4	69.9	71.5	70.4	68.1	68.9	76.9
17-Feb	66.3	65.2	65.9	71.2	74.3	74.2	73.5	72.4	72.6	71.4	69.0	70.1	71.8	72.2	74.0	74.4	74.7	74.7	74.2	74.0	73.9	72.7	72.4	72.8	72.0	74.7
18-Feb	72.1	71.9	71.6	71.2	70.6	70.3	69.8	69.9	68.9	68.2	66.2	65.1	64.3	63.8	63.9	62.4	64.5	66.4	69.3	70.9	71.2	71.9	69.6	70.8	68.5	72.1
19-Feb	69.8	68.3	67.6	67.2	67.4	66.7	67.1	69.7	70.4	62.3	57.9	54.8	52.3	51.3	50.4	51.8	54.5	58.5	74.8	77.5	77.0	72.8	71.1	72.4	64.7	77.5
20-Feb	72.7	75.4	74.0	74.8	73.7	74.5	72.9	73.4	74.1	67.3	62.3	53.3	51.7	49.6	49.6	52.6	52.3	57.8	69.6	70.6	74.4	80.1	79.1	77.8	67.2	80.1
21-Feb	78.1	77.1	76.8	76.6	76.6	76.2	75.7	76.0	76.8	77.7	77.8	75.7	71.2	69.4	67.5	66.5	67.5	71.1	73.5	72.0	74.1	76.6	77.9	77.9	74.4	78.1
22-Feb	76.8	76.6	77.6	78.4	78.1	78.4	76.8	75.9	75.0	73.6	73.5	68.9	66.2	67.3	69.6	73.8	75.0	77.1	77.3	77.6	78.2	78.1	78.6	78.4	75.3	78.6
23-Feb	78.1	78.3	78.5	78.7	78.7	79.4	78.6	78.1	80.0	76.0	71.9	71.5	71.4	69.9	71.0	72.0	71.0	74.6	77.4	81.0	81.9	83.3	83.3	82.8	77.0	83.3
24-Feb	83.4	83.3	82.4	82.4	82.5	82.2	82.6	80.7	78.1	71.5	68.2	64.5	60.1	56.0	52.6	50.6	54.1	65.6	81.9	82.2	81.4	81.4	76.9	71.0	73.2	83.4
25-Feb	78.3	83.2	85.2	85.7	85.2	85.4	85.3	84.9	83.1	75.5	71.3	69.2	68.6	64.8	62.2	63.2	66.4	67.9	70.8	74.1	76.0	78.5	79.9	82.7	76.1	85.7
26-Feb	86.0	86.9	88.1	88.3	87.7	87.6	87.2	87.1	87.0	84.9	84.5	81.6	81.0	78.5	79.7	78.4	77.4	77.8	77.7	77.0	75.8	75.5	74.2	74.3	81.8	88.3
27-Feb	74.0	73.3	72.8	73.4	74.6	74.8	74.5	74.3	72.3	70.3	61.8	59.1	59.6	57.3	58.0	56.7	55.2	56.8	65.6	73.1	73.2	72.0	71.6	70.3	67.7	74.8
28-Feb	69.6	69.2	68.3	68.4	68.4	68.7	69.1	68.6	71.1	64.2	57.8	52.3	48.5	49.5	53.2	55.0	57.5	61.5	66.6	69.3	67.2	70.1	73.8	74.5	64.3	74.5
	79.0	78.9	79.5	80.0	80.1	80.0	79.9	80.3	80.0	77.6	74.3	71.9	69.9	68.5	68.3	68.5	70.0	72.9	76.4	77.3	77.3	78.0	78.4	78.2	Diurnal Average	
	99.2	99.1	98.0	97.3	96.4	94.7	93.8	93.0	94.2	93.5	95.1	94.1	93.0	93.5	94.9	95.1	95.3	97.6	97.9	96.9	96.3	96.9	96.5	98.3	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Anzac - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	5	0.74	0.74
40 - 60	88	13.10	13.84
60 - 80	296	44.05	57.89
80 - 100	283	42.11	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Leaf Wetness (LW) - %

Anzac - February 2026

Maximum Value: 11.4 % on Feb 4 05:00

Maximum Daily Average: 10.3 % on Feb 8

Minimum Value: 0.0 % on Feb 1 01:00

Minimum Daily Average: 0.0 % on Feb 1

Maximum Diurnal Average: 2.7 % at hour 5

Minimum Diurnal Average: 1.8 % at hour 13

Monthly Average: 2.09 %

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.5 P_{90} = 10.2 P_{99} = 10.4

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

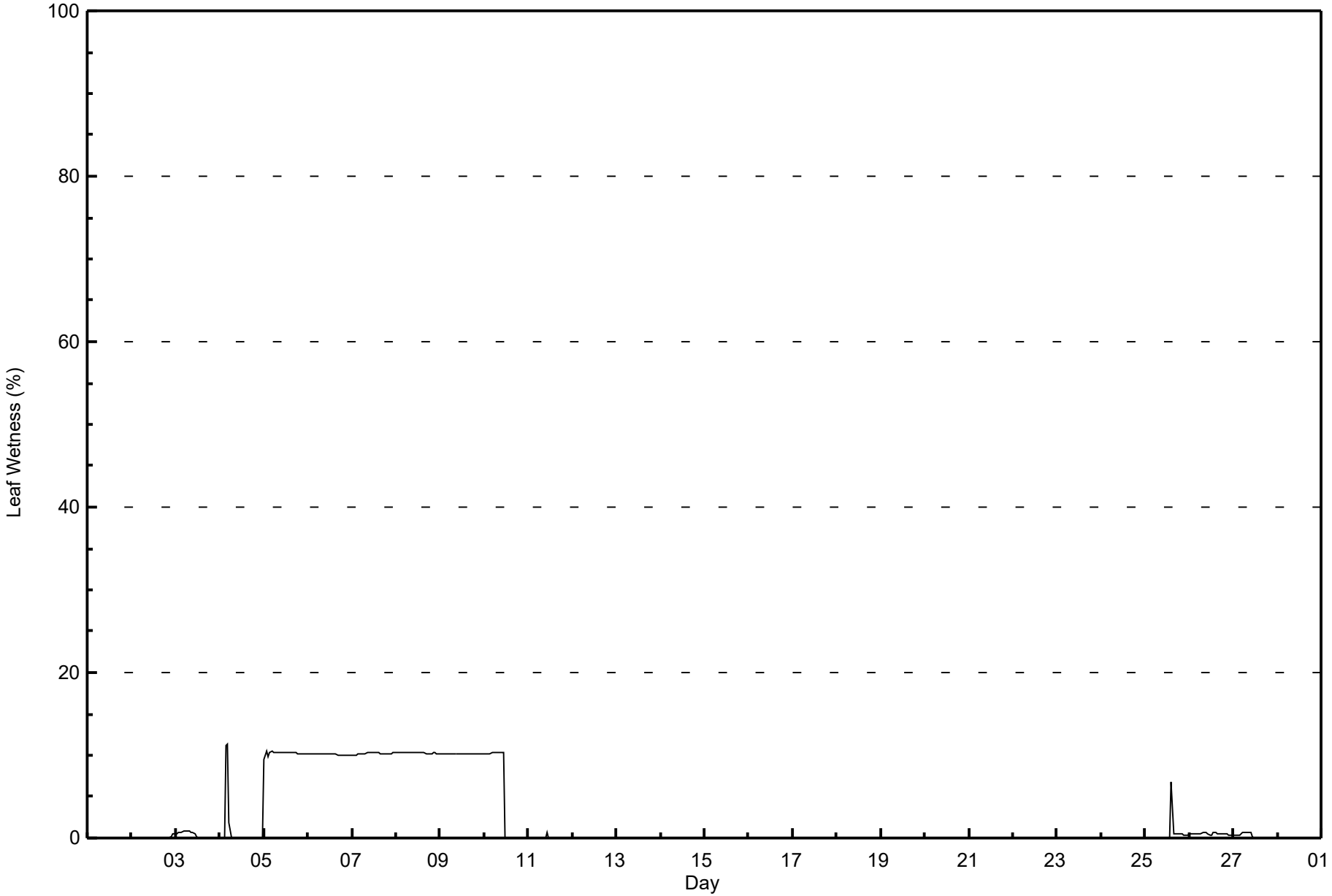
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.5	0.0	0.5
3-Feb	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8
4-Feb	0.0	0.0	0.1	11.2	11.4	1.9	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	0.0	0.0	0.0	1.0	11.4
5-Feb	9.5	10.4	9.8	10.3	10.4	10.4	10.3	10.4	10.4	10.4	10.4	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.2	10.2	10.2	10.2	10.2	10.2	10.3	10.4
6-Feb	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.2	10.2
7-Feb	10.0	10.0	10.1	10.1	10.1	10.1	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.2	10.3
8-Feb	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.4	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.2	10.2	10.2	10.2	10.3	10.3	10.2	10.2	10.3	10.4
9-Feb	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
10-Feb	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3	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	4.7	10.3
11-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	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	0.7
12-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	6.8
26-Feb	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.6	0.4	0.4	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.7
27-Feb	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8
28-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	2.2	2.2	2.2	2.7	2.7	2.3	2.3	2.3	2.3	2.3	2.3	1.9	1.8	1.9	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	Diurnal Average	
	10.3	10.4	10.3	11.2	11.4	10.4	10.4	10.4	10.4	10.4	10.4	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.2	10.2	10.3	10.3	10.3	10.3	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Leaf Wetness (LW) - %

Anzac - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 0.3	480	71.43	71.43
0.4 - 0.5	32	4.76	76.19
0.6 - 0.7	19	2.83	79.02
0.8 - 1.4	6	0.89	79.91
1.5 - 10	4	0.60	80.51
> 10	131	19.49	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 20m (WS20) - km/h

Anzac - February 2026

Maximum Speed: 29 km/h on Feb 26 19:00

Maximum Daily Speed Average: 17.1 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 8 08:00

Minimum Daily Speed Average: 1.4 km/h on Feb 23

Maximum Diurnal Speed Average: 3.8 km/h at hour 14

Minimum Diurnal Speed Average: 1.0 km/h at hour 19

Monthly Average Velocity: 2.3 km/h 284.8 deg

Percentiles: P_1 = 1 P_{10} = 4 Q_1 = 6 Median = 9 Q_3 = 13 P_{90} = 18 P_{99} = 26

Hours in Service: 672

Hours of Data: 651

Hours of Missing Data: 21

Percent Operational Time: 96.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NNE7	NE4	ESE5	ESE6	E7	ESE7	SE10	SE13	SE14	SE14	SE14	SE12	SE12	SE11	SE12	SE13	ESE13	SE15	SE17	SE17	SE16	SE15	SE15	SE14	SE11.1	SE17
2-Feb	SE13	SE12	SE14	SSE14	SSE14	SSE14	SSE13	SSE10	SSE10	SSE10	SSE9	SSE11	SSE9	SSE8	SSE6	SW1	W3	W3	NW9	NW10	NW12	NNW10	NNW12	NNW9	SSE4.3	SSE14
3-Feb	NNW8	NW9	NW10	NW10	NW12	NW10	NNW9	NW5	W3	WNW4	NNE4	SSE4	SSE5	SE4	SE6	ESE8	ESE9	SE8	SSE14	SSE17	SSE17	SSE17	SSE15	SSE17	SSE2.5	SSE17
4-Feb	SSE22	SSE23	SSE17	S12	SW15	WSW24	W28	WNW27	WNW24	WNW24	WNW23	W20	W20	WNW20	WNW19	WNW17	WNW13	WNW12	WNW12	WNW11	NW13	NW10	NW9	NNW6	W12.5	W28
5-Feb	NNW5	N4	N8	N12	NNW11	NW12	NW14	NW16	UO	UO	UO	UO	M	M	M	NW9	NNW7	NNE7	NE3	SE4	SE5	ESE6	SE8	SE9	----	NW16
6-Feb	SE10	SE12	SE13	SE14	SE15	SE15	SE17	SE17	SE16	SE18	SE17	SE17	SE15	SE16	SE17	SE14	ESE13	SE13	SE12	SE11	SE14	SSE13	SE11	SE10	SE14.1	SE18
7-Feb	S2	WNW5	NW9	WNW11	NW11	NW8	WNW7	NW7	NW6	WNW6	NW7	NNW7	NNW6	NNW5	NNW3	NNW3	WNW1	NNE3	UO	UO	UO	UO	ESE4	ESE5	NW4.5	WNW11
8-Feb	SE6	SE5	SE5	SE7	SE7	SE9	S4	NW0	WNW3	WNW6	NW9	NW10	NW13	NW14	NW12	NNW10	NNW9	NNW8	NW7	NW6	NNW7	NW6	NNW6	NNW6	NW3.6	NW14
9-Feb	NW3	N2	E1	E2	SE3	E3	ESE4	SE3	ESE5	SE5	E6	ENE6	E4	ENE4	NE4	NE4	NE4	NNE4	NNE3	NE2	UO	UO	UO	UO	ENE2.6	ENE6
10-Feb	UO	UO	UO	UO	UO	UO	SE5	SE6	SE6	SE6	SE6	SE5	SE5	SE5	SE5	SSE6	SSE5	SSE5	SSE5	SSW5	SSW7	S7	S7	SSW6	SSE5.2	S7
11-Feb	SW8	SW9	SW8	SSW6	SW8	WSW10	WSW12	WSW12	WSW14	WSW14	WSW16	W16	W16	WSW16	WSW12	WSW13	WSW8	WSW9	WSW7	WSW9	WSW9	SW8	WSW10	W15	WSW10.7	W16
12-Feb	WSW10	W16	W15	W12	W13	W15	W15	W14	W15	W11	WNW10	W8	SW7	WSW13	SW15	SW10	SSW9	SSW13	SSW18	SSW21	SSW15	WSW21	W22	W23	WSW12.5	W23
13-Feb	WSW26	W23	WSW23	WSW25	WSW26	W23	W22	W20	W21	W21	W18	W14	W14	W15	W14	W15	W14	WSW9	WSW9	WSW10	W9	W8	WSW7	WSW8	W16.2	WSW26
14-Feb	WSW8	WSW9	WSW9	SW8	SW7	SW7	SW7	WNW8	WSW7	WNW8	WSW8	W9	WNW11	WNW13	WNW11	WNW12	W11	WSW6	SW7	W8	WNW12	WNW12	WNW8	W8	W8.2	WNW13
15-Feb	W9	WNW13	NNW12	NW7	NNW12	NW11	NW13	WNW11	NW11	NNW10	NNW9	NNW11	NNW10	NNW11	NNW13	NW12	NNW11	NNW9	NNW10	NNW11	N12	N10	N7	N8	NNW9.9	WNW13
16-Feb	NNW4	NW3	W5	WNW5	WNW4	NNW4	N4	NW3	NNE4	SSE4	SE4	E8	SE7	E7	ENE10	E7	ENE10	ENE9	ENE8	ENE9	ENE7	NE6	NNE8	NE9	ENE3.7	ENE10
17-Feb	NNE11	NNE9	N12	NNW12	NNW11	NNW12	NNW11	NNW12	NW12	NNW15	N19	N18	N17	N22	N22	N24	N24	N22	N22	N23	N22	N22	N22	N21	N17.1	N24
18-Feb	NNW20	NNW20	NW18	NNW20	NNW19	NNW18	NW17	NW17	NW19	NW18	NW20	NW18	NW19	NW20	NW20	NW17	NW15	NW13	WNW10	WNW10	WNW8	WNW6	WNW5	W8	NW15.3	NNW20
19-Feb	WNW8	WNW3	SSW3	S5	S8	SSE8	S7	SSW5	SSW3	WSW4	W6	WNW5	NNE1	NE5	ESE2	NNE2	SSE4	ESE5	ENE6	ESE5	SSW8	SW12	SW10	SW8	SSW2.8	SW12
20-Feb	SSW6	S5	SSW6	S7	S6	S6	S5	S4	WSW4	W1	NNE2	E6	NE7	NE6	ENE4	NNE4	N6	N7	NNW8	NW8	WNW8	WNW10	WNW11	WNW9	WNW1.5	WNW11
21-Feb	WNW11	WNW10	WNW10	WNW9	WNW9	WNW7	WNW5	WNW4	WSW3	WNW5	W6	W5	WNW6	NNW8	N7	N7	NNW4	WNW2	NNE7	NNE9	NE8	NE8	ENE8	ENE10	NNW4.3	WNW11
22-Feb	E10	E8	E9	E9	E6	E6	NNW1	WNW3	N3	NNE3	E6	ESE15	ESE17	ESE16	ESE16	ESE16	ESE16	ESE16	ESE17	SE17	SE15	SE14	ESE12	ESE12	ESE10.1	ESE17
23-Feb	ESE12	ESE11	ESE8	SE6	ESE4	E7	SE5	SE6	S5	SW2	WNW9	NW12	NW12	NNW12	N10	N7	NNW8	N5	NNE1	W3	W5	WNW7	W7	W6	NNW1.4	NW12
24-Feb	W6	WNW8	WNW9	WNW8	WNW7	W9	WNW7	W6	SW5	WSW4	WNW7	WNW10	WNW12	WNW12	WNW8	WNW8	WNW5	ENE2	ESE6	SSE9	SSE11	SSE11	SSE13	SSE12	WSW4.0	SSE13
25-Feb	SE7	ESE8	ESE9	SE10	SE11	ESE8	ESE7	ESE4	SSE4	SSE4	SSW2	W2	NNE3	SSE6	SE5	E6	ESE6	ESE3	SE4	SSE5	SSE5	SSE5	ENE5	ENE5	ESE4.7	SE11
26-Feb	NE5	NNE4	NE5	ENE8	E9	E11	E10	ESE11	E10	ESE13	ESE12	NE10	N12	NW20	WNW22	NW24	NW24	NW28	NW29	NW25	NNW26	NNW27	NW24	NNW23	NNW9.6	NW29
27-Feb	NW20	NW20	NNW19	NW13	NW11	NW12	NW9	NW10	NW9	NNW9	NNW12	NNW13	NNW12	NNW12	NNW10	NNW10	NW7	WNW7	NW6	NW7	WNW5	WNW6	NW5	W6	NW10.1	NW20
28-Feb	W5	SW4	SW4	S5	S5	S5	SSW6	SSW8	S10	SSW8	S6	SE6	SE9	SSW8	SSW13	SSW14	S11	S9	S5	S5	SW10	SSW10	SSW10	SW11	SSW7.2	SSW14
	W1.9	W2.2	W2.3	W2.1	W2.5	W2.9	W3.5	W3.6	W3.3	W3.1	WNW3.1	NW2.6	NW2.8	WNW3.8	NW2.8	NW3.4	NW2.5	NW1.6	NW1.0	W1.3	W1.8	W2.1	WNW1.8	W1.7	Diurnal Average	
	WSW26	SSE23	WSW23	WSW25	WSW26	WSW24	W28	WNW27	WNW24	WNW24	WNW23	W20	W20	N22	N22	NW24	N24	NW28	NW29	NW25	NNW26	NNW27	NW24	NNW23	Diurnal Maximum	

M - Maintenance UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 20m (WS20) - km/h

Anzac - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 10 km/h on Feb 4 06:00

Minimum Value: 0 km/h on Feb 16 05:00

Percentiles: $P_1 = 1$ $P_{10} = 1$ $Q_1 = 1$ Median = 2 $Q_3 = 3$ $P_{90} = 4$ $P_{99} = 6$

Hours in Service:	672
Hours of Data:	651
Hours of Missing Data:	21
Hours of Calibration:	0
Percent Operational Time:	96.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	1	1	1	1	1	3	3	3	3	3	2	3	3	3	3	3	4	5	4	3	4	3	3	5
2-Feb	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	3
3-Feb	2	2	2	2	3	2	2	2	1	1	1	2	1	1	2	2	2	2	3	4	3	3	3	4	4
4-Feb	5	4	4	4	4	10	7	7	6	6	6	5	5	5	5	4	3	3	3	3	3	2	2	1	10
5-Feb	1	1	4	3	2	3	3	5	UO	UO	UO	UO	M	M	M	3	2	2	2	1	1	2	2	2	5
6-Feb	2	3	3	3	3	3	3	4	4	4	4	4	3	4	3	3	3	3	2	2	3	3	2	2	4
7-Feb	2	2	2	2	3	2	1	2	2	1	1	1	1	1	2	1	2	1	UO	UO	UO	UO	1	1	3
8-Feb	1	2	1	1	1	2	2	2	2	2	2	2	3	3	3	2	2	2	2	1	2	1	2	2	3
9-Feb	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	UO	UO	UO	UO	2
10-Feb	UO	UO	UO	UO	UO	UO	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11-Feb	2	2	2	2	2	2	3	3	3	3	4	4	4	4	3	4	4	2	1	2	2	2	3	4	4
12-Feb	4	4	4	3	4	3	3	3	3	3	2	3	3	4	5	4	3	4	4	5	5	7	6	5	7
13-Feb	6	6	6	6	6	6	5	6	5	6	5	4	4	4	4	4	4	2	2	1	2	1	1	1	6
14-Feb	1	1	1	1	1	1	1	2	2	2	2	2	4	3	3	2	3	1	1	2	3	3	2	2	4
15-Feb	3	4	4	3	4	2	3	2	2	2	2	2	2	2	3	2	2	2	1	1	1	2	1	1	4
16-Feb	2	1	1	1	0	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	2	2
17-Feb	2	2	3	2	2	2	2	2	2	3	4	4	4	4	4	5	5	4	5	5	4	5	5	4	5
18-Feb	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	2	2	2	2	1	1	4
19-Feb	1	2	1	2	1	1	1	1	1	2	2	2	2	1	2	1	2	1	1	0	3	2	2	2	3
20-Feb	2	2	1	1	1	1	1	1	1	2	1	1	1	2	1	2	1	1	2	1	1	2	2	2	2
21-Feb	2	2	2	2	2	1	1	1	1	2	1	1	2	2	2	2	2	1	3	2	1	1	2	2	3
22-Feb	2	2	2	2	2	1	2	1	1	1	3	4	4	4	4	4	4	4	4	4	4	3	3	3	4
23-Feb	3	3	2	2	1	2	1	1	1	2	2	2	3	2	2	2	2	1	1	1	1	1	1	1	3
24-Feb	1	2	2	1	1	2	1	1	1	1	2	3	3	3	2	2	3	2	1	1	1	2	2	2	3
25-Feb	2	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
26-Feb	2	1	1	2	2	2	2	2	3	3	3	2	4	4	5	6	5	6	7	5	6	6	6	5	7
27-Feb	5	4	4	3	2	2	2	2	2	3	3	2	3	2	3	2	2	1	1	1	1	1	1	1	5
28-Feb	1	1	1	1	1	1	1	2	1	1	2	3	2	4	4	4	3	2	2	3	3	2	2	2	4
	6	6	6	6	6	10	7	7	6	6	6	5	5	5	5	6	5	6	7	5	6	7	6	5	
	Diurnal Maximum																								

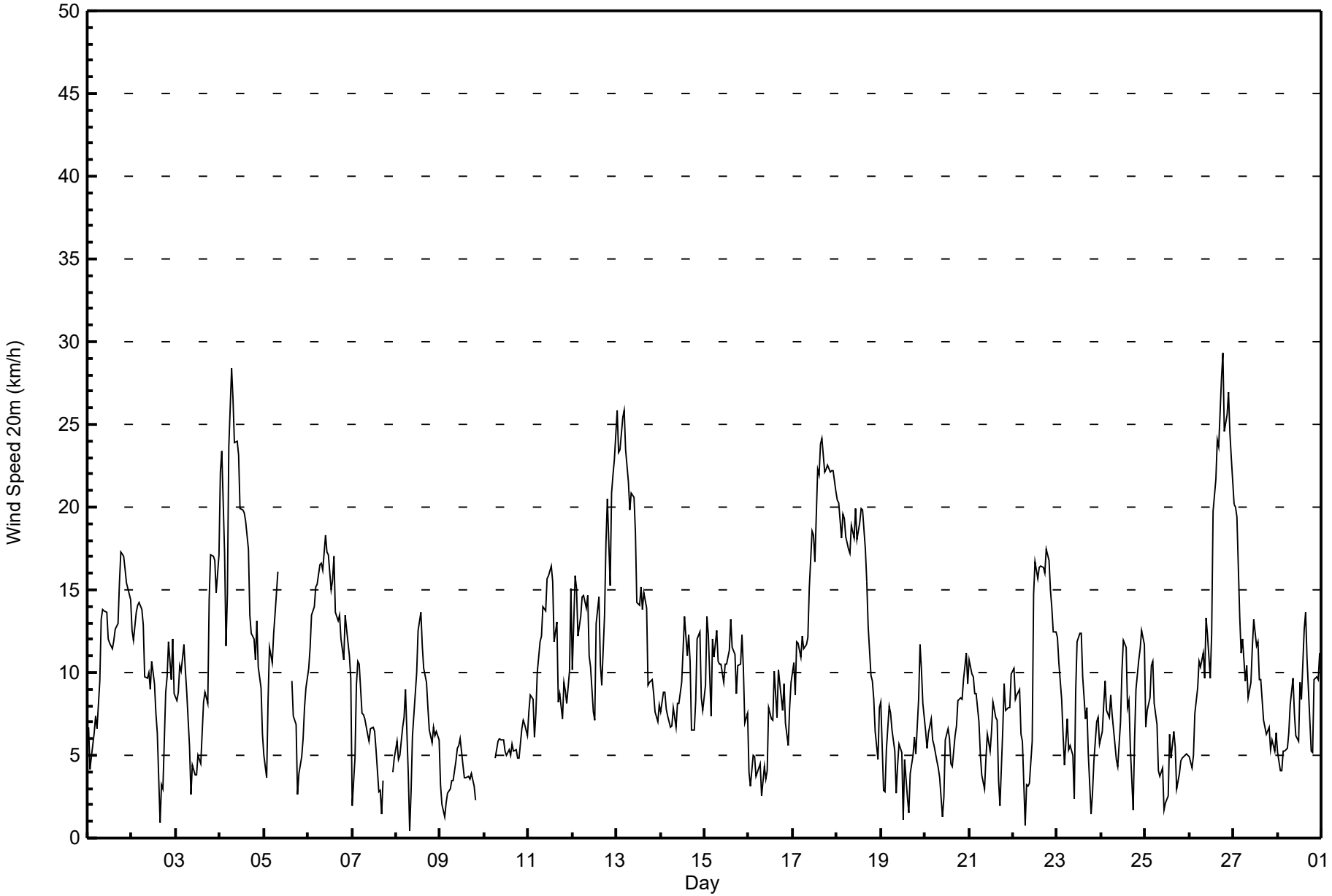
M - Maintenance UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 20m (WS20) - km/h

Anzac - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	142	21.81	21.81
6 - 11	289	44.39	66.21
12 - 19	165	25.35	91.55
20 - 28	54	8.29	99.85
29 - 38	1	0.15	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 651

Total Number of Hours: 672

Wind Speed 20m (WS20) - km/h
Anzac - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	5	13	9	5	4	11	17	12	12	5	5	4	10	17	5	8	142
6 - 11	10	7	6	12	19	15	24	15	11	13	16	19	18	43	29	32	289
12 - 19	7	0	0	0	0	16	38	14	1	5	3	10	17	12	25	17	165
20 - 28	11	0	0	0	0	0	0	2	0	1	0	6	11	7	10	6	54
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	20	15	17	23	42	79	43	24	24	24	39	56	79	70	63	651

Total Number of Valid Hours: 651

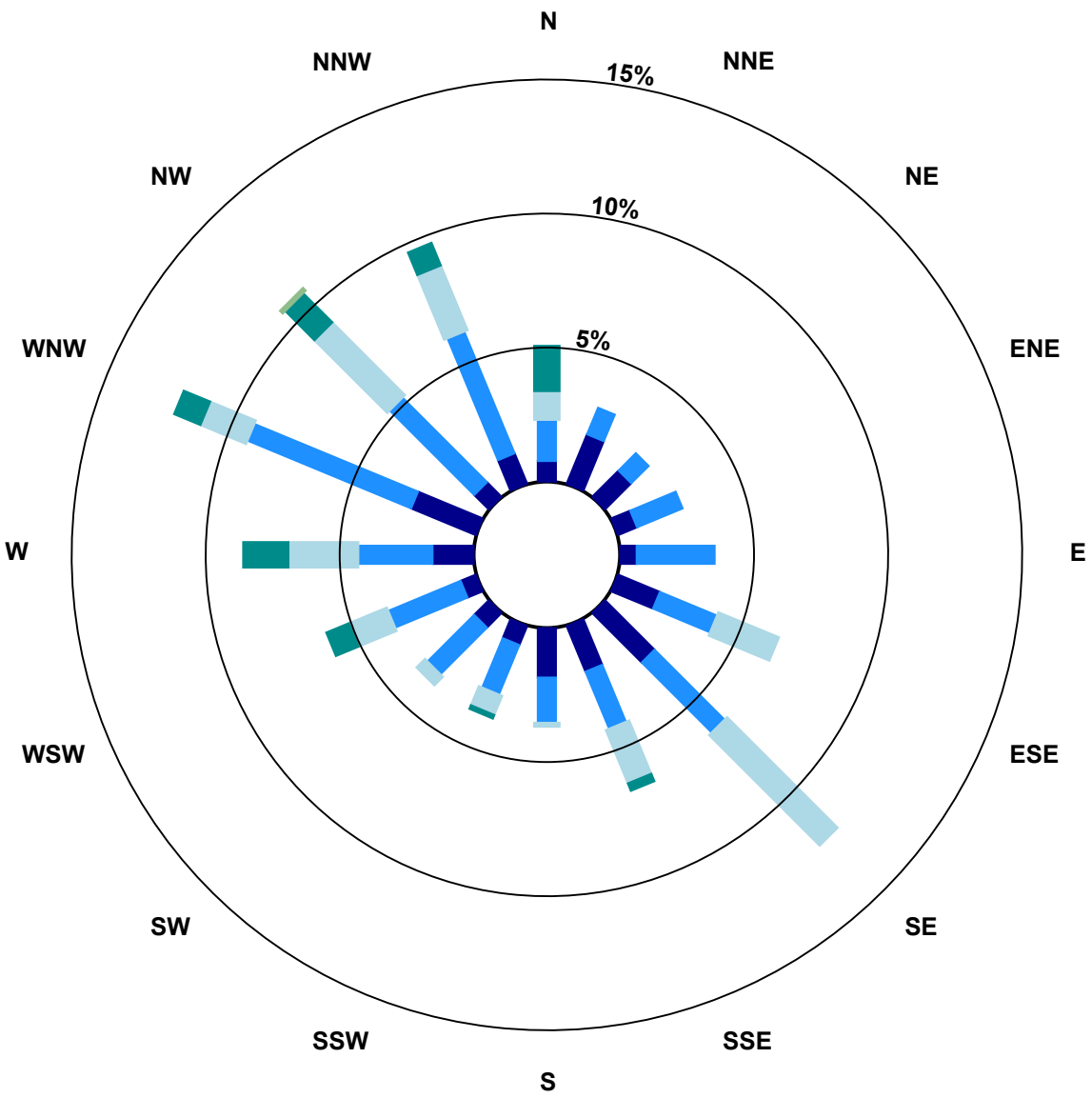
Total Number of Hours: 672

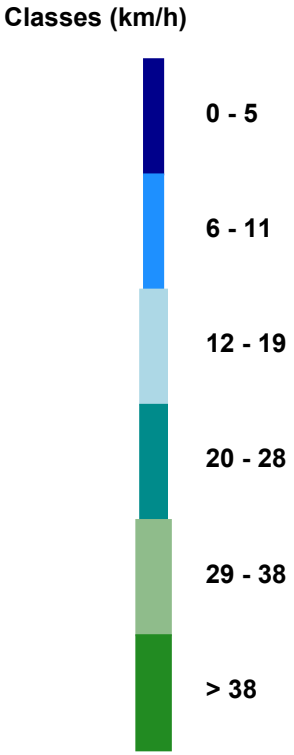
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 20m (WS20) - km/h

Anzac





Total Number of Valid Hours: 651

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 20m (WD20) - deg

Anzac - February 2026

Direction of Maximum Speed: 324 deg on Feb 26 19:00
Direction of Maximum Daily Speed Average: 351.6 deg on Feb 17

Direction of Minimum Speed: 312 deg on Feb 8 08:00

Direction of Minimum Daily Speed Average: 1.4 deg on Feb 23

Monthly Average Direction: 284.8 deg

Hours in Service:	672
Hours of Data:	651
Hours of Missing Data:	21
Percent Operational Time:	96.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	19	55	102	111	94	110	136	137	140	138	141	145	140	136	134	131	122	128	135	137	133	129	131	135	129.9
2-Feb	135	137	144	152	156	158	159	154	152	158	154	154	155	156	158	234	275	271	304	310	320	335	344	339	158.2
3-Feb	329	324	324	319	323	322	327	325	266	296	30	164	164	139	130	123	123	146	167	168	158	157	149	156	164.9
4-Feb	163	161	160	191	226	258	273	283	287	289	285	281	275	286	297	298	288	286	289	288	321	317	325	333	273.0
5-Feb	328	7	358	357	338	321	306	317	UO	UO	UO	UO	M	M	M	326	348	22	54	141	139	122	141	131	--
6-Feb	142	137	137	137	141	142	143	140	139	142	140	142	137	139	143	141	123	124	127	133	146	150	145	134	138.8
7-Feb	170	301	304	298	312	304	296	306	317	291	317	331	331	337	338	328	286	14	UO	UO	UO	UO	119	119	313.2
8-Feb	127	144	141	144	141	138	172	312	296	288	307	316	309	305	312	333	343	335	326	317	328	321	334	327	317.0
9-Feb	315	350	94	96	129	92	117	135	117	128	99	75	90	59	50	42	37	20	31	38	UO	UO	UO	UO	77.3
10-Feb	UO	UO	UO	UO	UO	UO	138	145	144	137	139	139	126	138	140	147	147	154	163	195	192	188	186	199	157.5
11-Feb	219	226	227	213	234	240	246	250	254	254	258	259	262	254	249	255	256	249	247	241	238	223	247	261	247.5
12-Feb	247	260	273	272	264	273	273	278	271	268	289	279	222	245	229	225	199	199	199	202	203	251	263	260	248.1
13-Feb	258	263	256	254	257	261	268	274	275	277	277	277	268	273	270	275	275	257	242	256	271	277	254	243	265.4
14-Feb	255	240	253	231	223	219	231	285	244	298	256	273	290	285	282	284	268	257	236	272	288	295	287	280	268.1
15-Feb	281	303	340	319	331	319	313	303	316	330	334	347	343	339	345	325	330	340	347	346	353	11	4	2	332.9
16-Feb	330	304	268	292	294	329	1	314	33	158	128	96	124	95	78	99	75	61	60	62	78	55	28	37	59.2
17-Feb	32	15	3	341	336	343	340	332	326	336	353	354	353	353	356	358	355	352	352	354	353	352	353	350	351.6
18-Feb	343	340	326	328	328	329	326	324	320	322	321	318	315	312	311	313	314	307	302	298	301	301	292	281	319.2
19-Feb	287	286	208	173	175	163	173	204	212	250	273	294	30	56	107	22	149	102	75	122	206	222	222	222	201.5
20-Feb	209	190	194	187	171	183	180	186	247	265	21	79	51	50	59	20	4	358	337	323	284	287	282	288	284.8
21-Feb	288	290	286	293	291	303	298	286	256	290	279	279	301	340	350	358	337	292	26	33	40	54	60	72	327.3
22-Feb	86	95	80	80	97	81	337	292	352	16	94	118	113	119	111	111	114	115	117	124	127	124	117	110	109.1
23-Feb	108	122	122	133	110	100	141	124	173	232	295	325	318	344	350	349	338	360	24	267	261	286	279	275	345.1
24-Feb	276	290	296	289	291	280	282	265	229	243	283	291	292	294	291	287	285	61	117	168	160	152	152	152	257.5
25-Feb	133	119	123	129	127	104	104	117	159	152	200	261	31	165	128	95	109	108	144	150	149	152	60	61	123.3
26-Feb	51	21	49	72	98	93	93	104	94	107	109	56	3	304	300	312	315	314	324	324	327	328	324	329	340.6
27-Feb	325	322	327	323	312	311	315	309	304	336	336	327	329	342	336	347	318	291	309	315	296	301	315	263	320.6
28-Feb	260	223	228	188	179	190	195	197	189	193	175	146	136	195	197	194	184	191	177	186	215	207	213	214	194.2
	275.3	273.2	281.2	262.6	260.6	270.8	267.8	273.1	261.6	271.1	290.5	305.2	306.0	303.5	304.8	315.3	323.9	325.1	317.5	263.9	262.8	272.7	283.2	267.8	
	Diurnal Average																								

M - Maintenance UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 20m (WD20) - deg

Anzac - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 95 deg on Feb 19 13:00

Minimum Value: 4 deg on Feb 19 06:00

Percentiles: P_1 = 7 P_{10} = 10 Q_1 = 12 Median = 14 Q_3 = 17 P_{90} = 27 P_{99} = 75

Hours in Service:	672
Hours of Data:	651
Hours of Missing Data:	21
Hours of Calibration:	0
Percent Operational Time:	96.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	28	35	19	19	12	22	13	13	12	13	13	13	14	15	16	15	13	14	14	13	13	14	13	14	35
2-Feb	13	14	13	10	10	10	9	10	11	10	11	10	11	13	16	78	23	55	13	14	12	13	12	15	78
3-Feb	14	13	10	13	12	12	14	24	41	34	29	36	22	30	27	15	13	20	11	10	12	12	13	13	41
4-Feb	11	11	18	20	19	19	17	16	16	15	15	15	16	15	16	16	14	15	15	16	16	14	12	15	20
5-Feb	15	36	36	17	21	14	14	12	UO	UO	UO	UO	M	M	M	20	30	14	42	24	16	16	15	19	42
6-Feb	14	14	13	13	12	13	12	13	13	12	13	13	13	13	12	13	14	13	14	13	12	12	11	16	16
7-Feb	64	26	15	14	17	15	14	14	16	15	17	17	15	24	33	37	44	21	UO	UO	UO	UO	16	12	64
8-Feb	14	15	12	13	13	13	51	75	66	13	14	13	14	13	14	16	13	14	17	16	14	16	14	13	75
9-Feb	22	12	54	32	25	23	20	20	14	28	16	17	22	27	22	25	19	14	19	19	UO	UO	UO	UO	54
10-Feb	UO	UO	UO	UO	UO	UO	15	13	13	13	14	14	15	14	15	11	12	9	8	13	10	9	7	12	15
11-Feb	15	13	17	14	18	12	13	13	14	14	14	14	14	14	16	14	23	17	11	12	16	17	20	15	23
12-Feb	15	15	17	15	15	15	15	14	13	15	17	43	41	21	16	26	16	14	14	16	23	19	16	14	43
13-Feb	14	16	14	14	13	14	16	18	15	16	16	16	16	17	15	17	14	13	13	7	10	9	16	10	18
14-Feb	11	8	8	17	10	13	26	11	23	25	18	16	14	15	17	16	14	13	13	12	12	13	14	11	26
15-Feb	16	15	15	21	16	15	12	13	15	12	16	19	15	16	14	15	12	9	7	8	9	7	9	7	21
16-Feb	38	26	5	13	15	26	9	19	41	25	31	25	29	35	17	26	16	12	9	13	14	21	11	12	41
17-Feb	13	19	14	16	13	11	12	12	11	13	13	14	14	14	15	15	15	15	15	14	14	15	15	13	19
18-Feb	13	12	12	11	11	11	11	12	11	12	11	12	12	13	13	14	13	12	11	11	10	10	15	11	15
19-Feb	10	24	24	6	6	4	8	9	34	35	26	26	95	34	64	92	51	19	14	16	32	11	11	10	95
20-Feb	11	10	8	15	4	6	12	13	15	92	49	25	19	27	39	41	15	11	9	16	8	9	11	10	92
21-Feb	10	10	13	13	14	11	15	17	25	21	15	18	32	17	19	16	22	24	30	11	10	8	7	12	32
22-Feb	14	13	11	12	16	13	86	27	18	34	26	15	16	16	15	14	13	12	13	13	13	14	12	12	86
23-Feb	13	13	14	16	17	9	18	23	36	49	17	15	18	14	14	15	19	15	16	26	19	9	8	10	49
24-Feb	11	15	13	13	12	13	9	13	10	22	20	14	14	14	19	17	30	76	10	9	6	8	8	9	76
25-Feb	20	13	13	13	14	15	13	24	28	23	55	75	63	17	32	19	16	30	14	12	10	13	19	14	75
26-Feb	23	25	30	15	14	12	13	14	16	14	15	19	27	14	16	14	13	14	12	11	12	12	12	12	30
27-Feb	11	11	12	12	12	14	17	12	12	14	17	15	18	16	18	19	25	10	10	8	11	13	15	7	25
28-Feb	19	8	14	9	10	12	9	11	10	13	16	29	19	40	24	17	18	19	31	35	19	13	12	12	40
	64	36	54	32	25	26	86	75	66	92	55	75	95	40	64	92	51	76	42	35	32	21	20	19	
	Diurnal Maximum																								

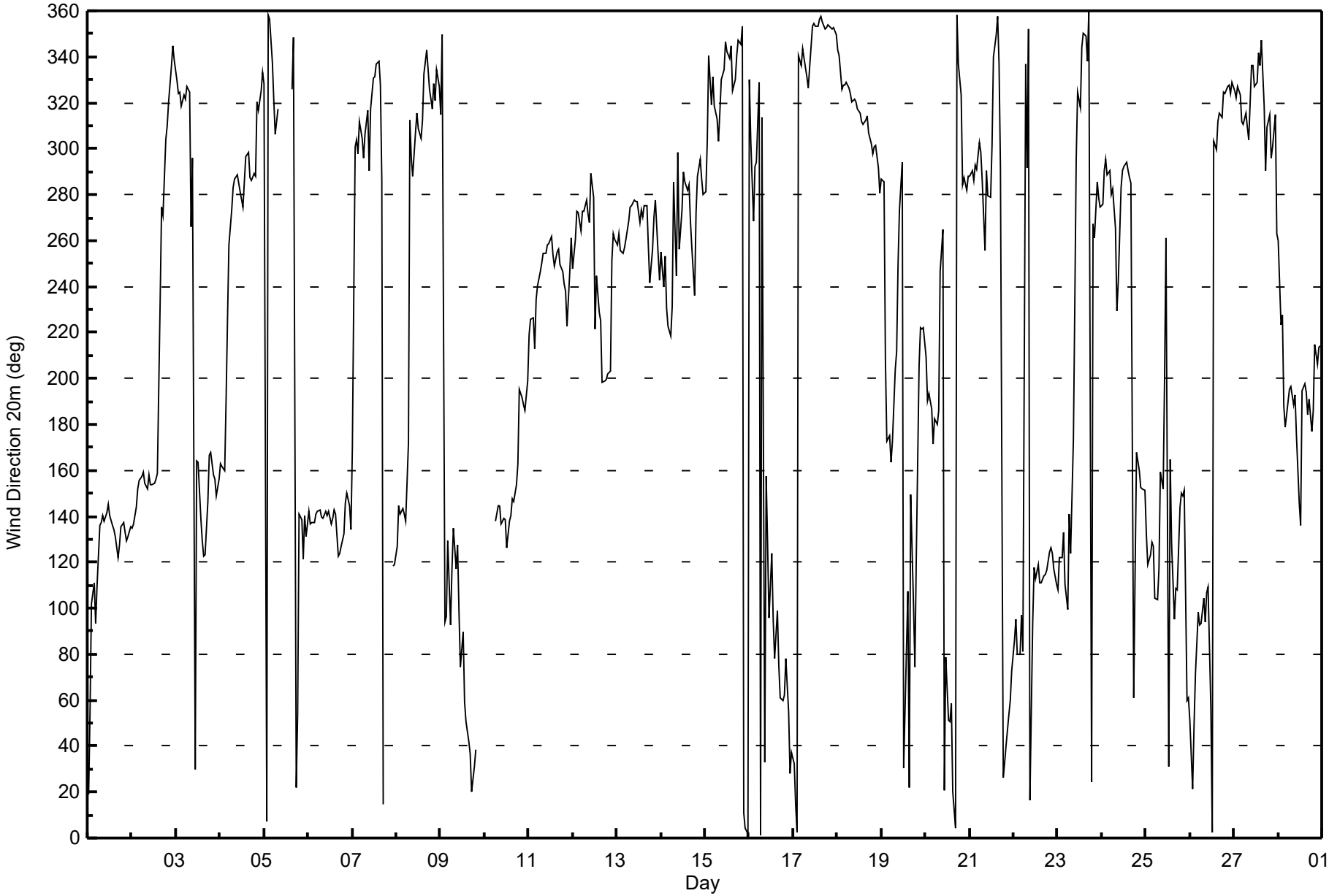
M - Maintenance UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 20m (WD20) - deg

Anzac - February 2026



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS17
WAPASU
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - WAPASU (AMS17)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	639	33	33	100	22	0	2.5	0
H2S (ppb) Average	639	32	33	99.85	1.6	0	0.5	0
THC (ppm) Average	639	33	33	100	3.1	-	2.5	-
O3 (ppb) Average	640	31	32	99.85	44.7	0	39.6	-
NO2 (ppb) Average	638	33	34	99.85	42.3	0	18.2	-
NO (ppb) Average	638	33	34	99.85	37.5	-	6.8	-
NOX (ppb) Average	638	33	34	99.85	79	-	25	-
PM2.5 (ug/m3) Average	669	2	3	99.85	12.9	0	4.6	0
Temperature 2 m (C) Average	672	0	0	100	8.2	-	0.6	-
Relative Humidity (%) Average	672	0	0	100	98.3	-	93	-
Wind Speed 10 m (km/h) Average	672	0	0	100	21	-	13	-
Wind Direction 10 m (deg) Average	672	0	0	100	-	-	-	-
Precipitation (mm) Total	672	0	0	100	2.2	-	7	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - WAPASU (AMS17)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	639	0.64	1.8	-	0	0	0	0	0.3	2.2	22
H2S (ppb) Average	639	0.14	0.2	-	0	0	0.1	0.1	0.2	0.3	1.6
THC (ppm) Average	639	2.3	0.1	-	2.2	2.2	2.2	2.3	2.3	2.4	3.1
O3 (ppb) Average	640	25.62	9.6	-	0.7	11.4	20.8	28.3	31.8	35	44.7
NO2 (ppb) Average	638	4.08	6.1	-	0.2	0.3	0.6	2	5	9.9	42.3
NO (ppb) Average	638	1.16	3.6	-	0	0	0	0	0.5	2.8	37.5
NOX (ppb) Average	638	5.24	8.9	-	0.2	0.3	0.7	2.3	5.6	12.4	79
PM2.5 (ug/m3) Average	669	2.71	1.3	-	0.4	1.5	1.8	2.4	3.3	4.3	12.9
Temperature 2 m (C) Average	672	-15.7	10.1	-	-40.1	-30.2	-23.3	-15.3	-8.5	-1.7	8.2
Relative Humidity (%) Average	672	78.19	11	-	40	63.2	70.9	78.3	87.4	90.1	98.3
Wind Speed 10 m (km/h) Average	672	8.3	4	-	0	3	5	8	10	14	21
Wind Direction 10 m (deg) Average	672	-	-	-	-	-	-	-	-	-	-
Precipitation (mm) Total	672	-	-	33.05	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - WAPASU (AMS17)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Start	End	(Hours)	Notes
H2S, NO2, O3	23 Feb 2026 14:00	23 Feb 2026 14:00	1	Maintenance - sample manifold cleaned
PM2.5	25 Feb 2026 19:00	25 Feb 2026 19:00	1	DAS Failure - data not recorded

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Wapasu - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 22.0 ppb on Feb 25 14:00 Maximum Daily Average: 2.5 ppb on Feb 24

Minimum Value: 0.0 ppb on Feb 1 02:00 Minimum Daily Average: 0.0 ppb on Feb 9
Maximum Diurnal Average: 2.0 ppb at hour 14 Minimum Diurnal Average: 0.2 ppb at hour 21
Monthly Average: 0.64 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.3 P_{90} = 2.2 P_{99} = 8.0

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
2-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.2	1.5	0.1	1.9	4.1	2.9	1.3	0.8	0.5	0.4	0.0	0.0	0.6	4.1
3-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.1	3.2	0.6	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.4	4.1
4-Feb	0.1	0.0	0.1	Z	0.1	0.2	5.0	2.9	0.8	0.4	1.1	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.0
5-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.4
6-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
7-Feb	Z	0.0	0.0	0.3	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
8-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.9	0.1	0.9
11-Feb	1.3	1.3	2.4	2.4	Z	2.1	2.3	2.5	2.2	1.6	1.7	2.4	4.3	5.0	4.9	5.2	2.4	0.3	0.2	0.3	0.4	0.7	2.4	2.5	2.2	5.2
12-Feb	2.1	2.5	2.3	2.4	1.4	Z	0.8	0.7	1.2	2.4	3.6	7.3	7.2	9.3	0.5	0.2	0.1	0.1	0.1	0.0	1.0	4.4	5.0	1.5	2.4	9.3
13-Feb	Z	1.7	1.3	1.0	0.2	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.0	1.2	1.0	0.3	0.1	0.0	0.0	0.1	0.3	0.3	1.7
14-Feb	1.1	Z	3.7	1.0	1.1	2.0	2.3	2.1	1.7	2.4	6.3	5.1	3.2	4.6	5.1	4.0	1.7	1.0	1.0	0.7	0.5	0.6	0.2	0.0	2.2	6.3
15-Feb	0.1	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
16-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Feb	0.0	0.0	0.0	0.0	Z	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	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1
18-Feb	0.2	0.1	0.1	0.1	0.2	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.2
19-Feb	Z	0.0	0.0	0.0	0.2	0.6	1.3	2.1	1.7	2.7	10.9	0.4	3.7	2.8	0.0	2.7	1.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.3	10.9
20-Feb	0.3	Z	0.8	0.4	0.2	0.1	0.1	0.2	0.1	1.2	2.3	3.0	8.5	5.5	1.0	1.0	0.8	0.2	0.0	0.3	0.4	0.4	0.3	0.4	1.2	8.5
21-Feb	0.5	0.6	Z	0.7	0.2	0.3	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
22-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
23-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	1.3	4.4	4.5	C	C	C	C	C	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.5
24-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.3	0.5	0.9	3.4	2.5	4.5	2.7	2.3	1.9	3.6	18.3	10.4	3.7	0.9	0.3	0.3	0.4	0.4	2.5	18.3
25-Feb	Z	0.4	0.3	0.2	0.3	0.3	0.6	0.3	0.3	0.7	0.5	1.3	10.4	22.0	1.7	0.7	1.7	4.7	3.9	2.4	1.3	1.2	0.5	0.3	2.4	22.0
26-Feb	0.3	Z	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.3
27-Feb	0.1	0.2	Z	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
28-Feb	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.2	0.7	0.7	0.6	7.0	0.1	0.0	0.0	0.0	0.2	0.2	0.3	0.1	0.1	0.1	0.1	0.3	0.5	7.0
	0.3	0.3	0.5	0.4	0.2	0.3	0.5	0.4	0.4	0.6	1.2	1.3	1.5	2.0	0.7	0.8	1.2	0.8	0.4	0.2	0.2	0.3	0.4	0.3	Diurnal Average	
	2.1	2.5	3.7	2.4	1.4	2.1	5.0	2.9	2.2	3.4	10.9	7.3	10.4	22.0	5.1	5.2	18.3	10.4	3.9	2.4	1.3	4.4	5.0	2.5	Diurnal Maximum	

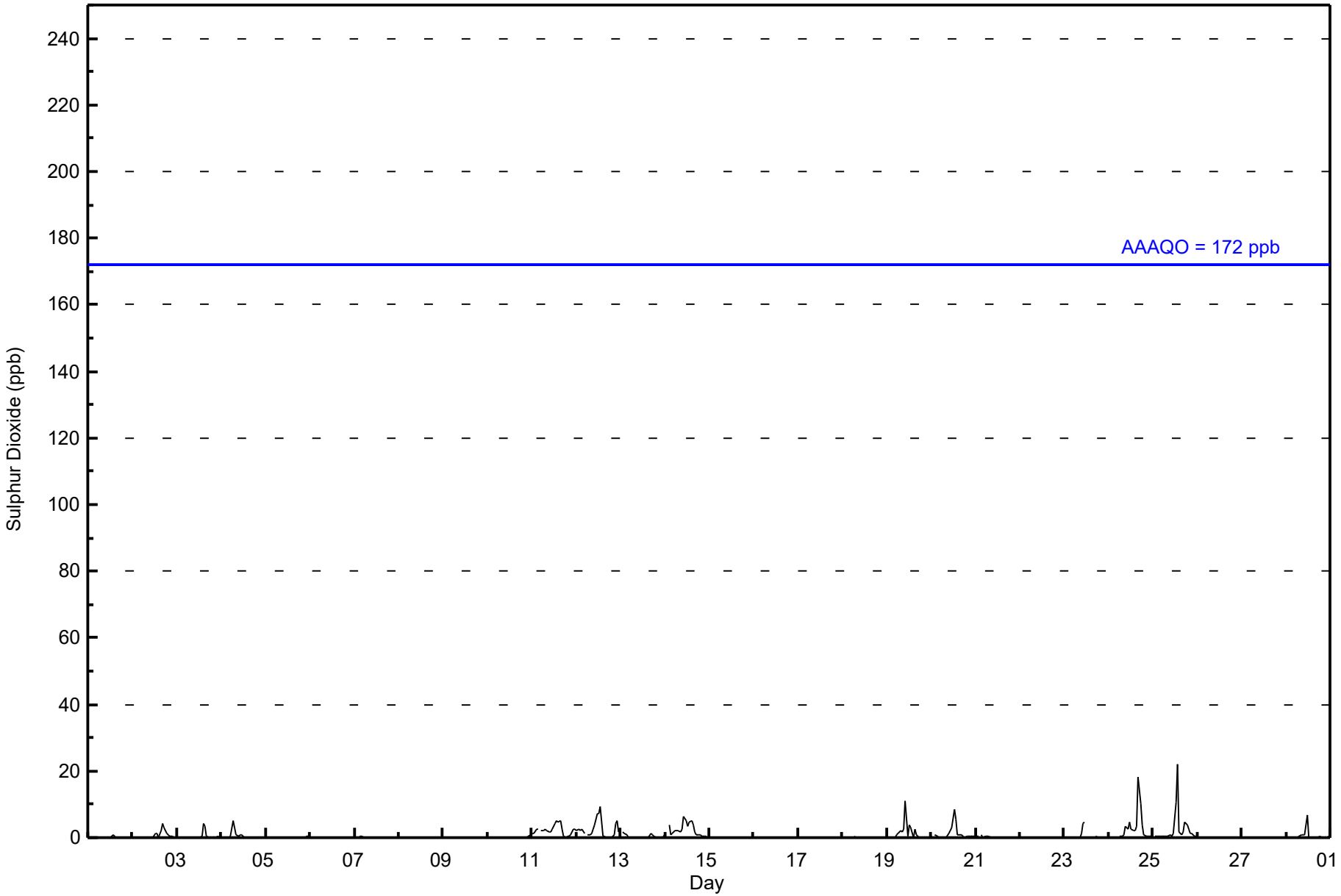
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Wapasu - February 2026



Sulphur Dioxide (SO_2) - ppb
Wapasu - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	636	99.53	99.53
11 - 20	2	0.31	99.84
21 - 60	1	0.16	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Wapasu - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	70	120	65	21	7	5	29	92	103	45	30	24	5	6	2	12	636
11 - 20	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
21 - 60	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	70	120	65	21	7	5	29	92	103	46	32	24	5	6	2	12	639

Total Number of Valid Hours: 639

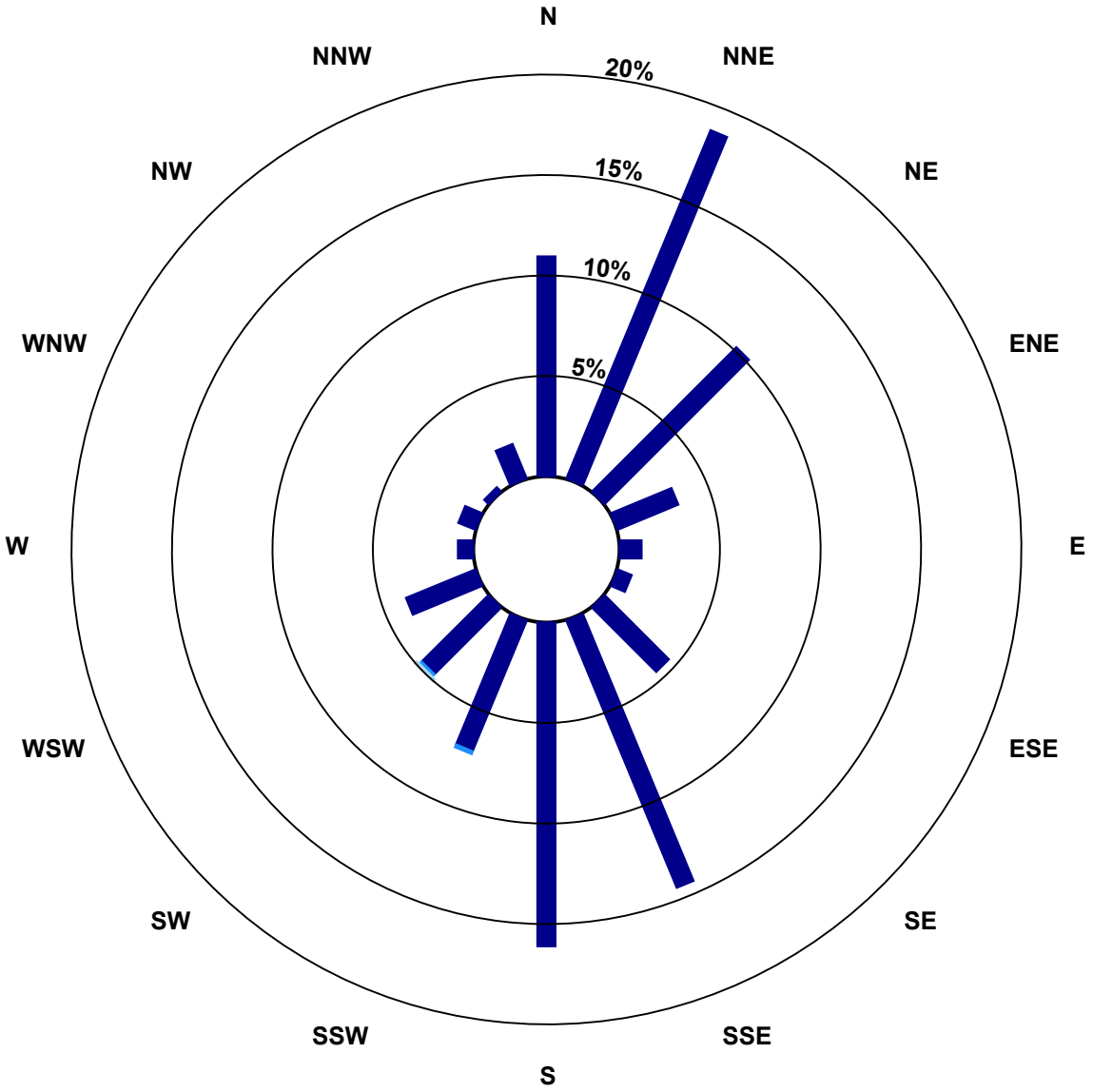
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Wapasu



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

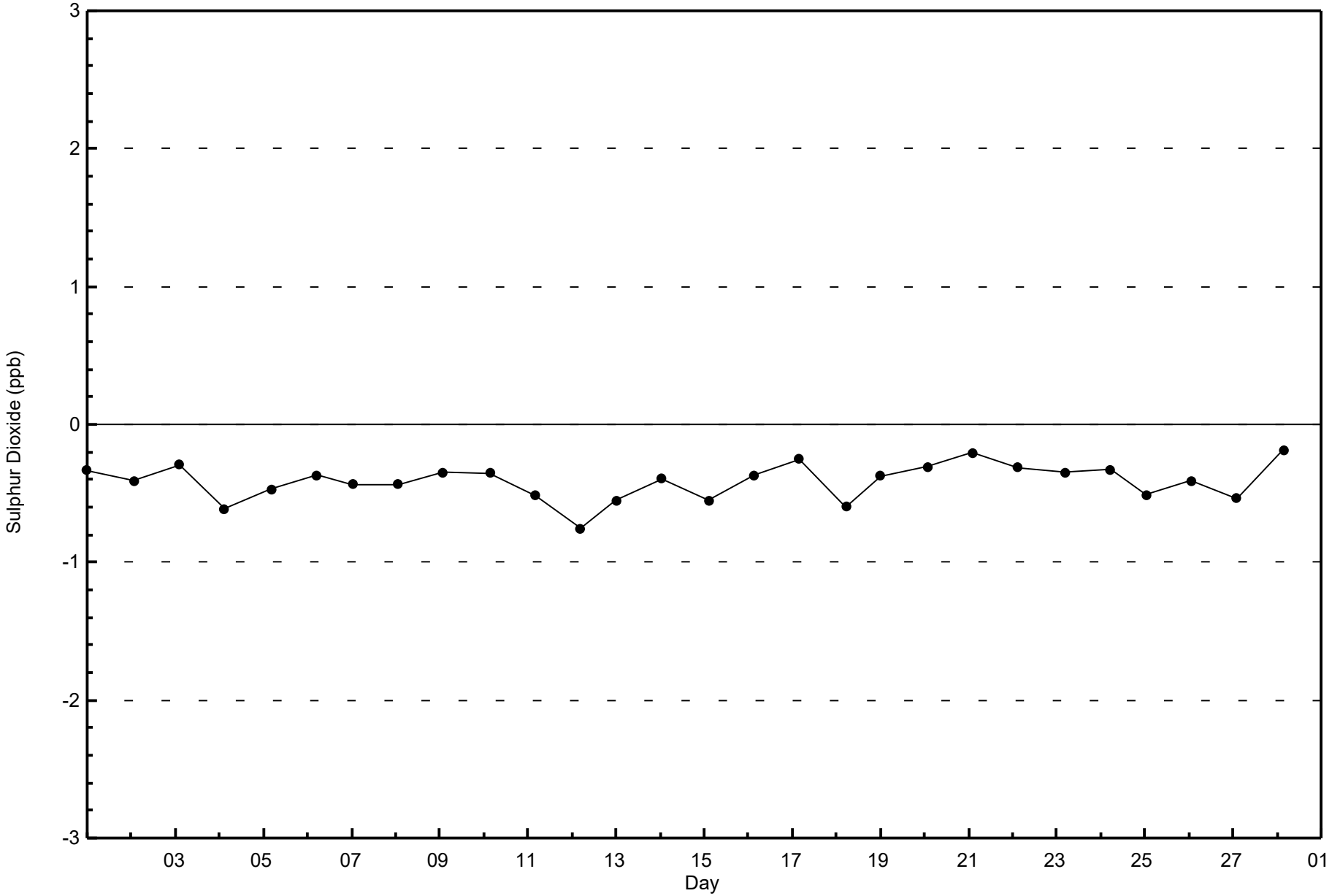
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Wapasu - February 2026

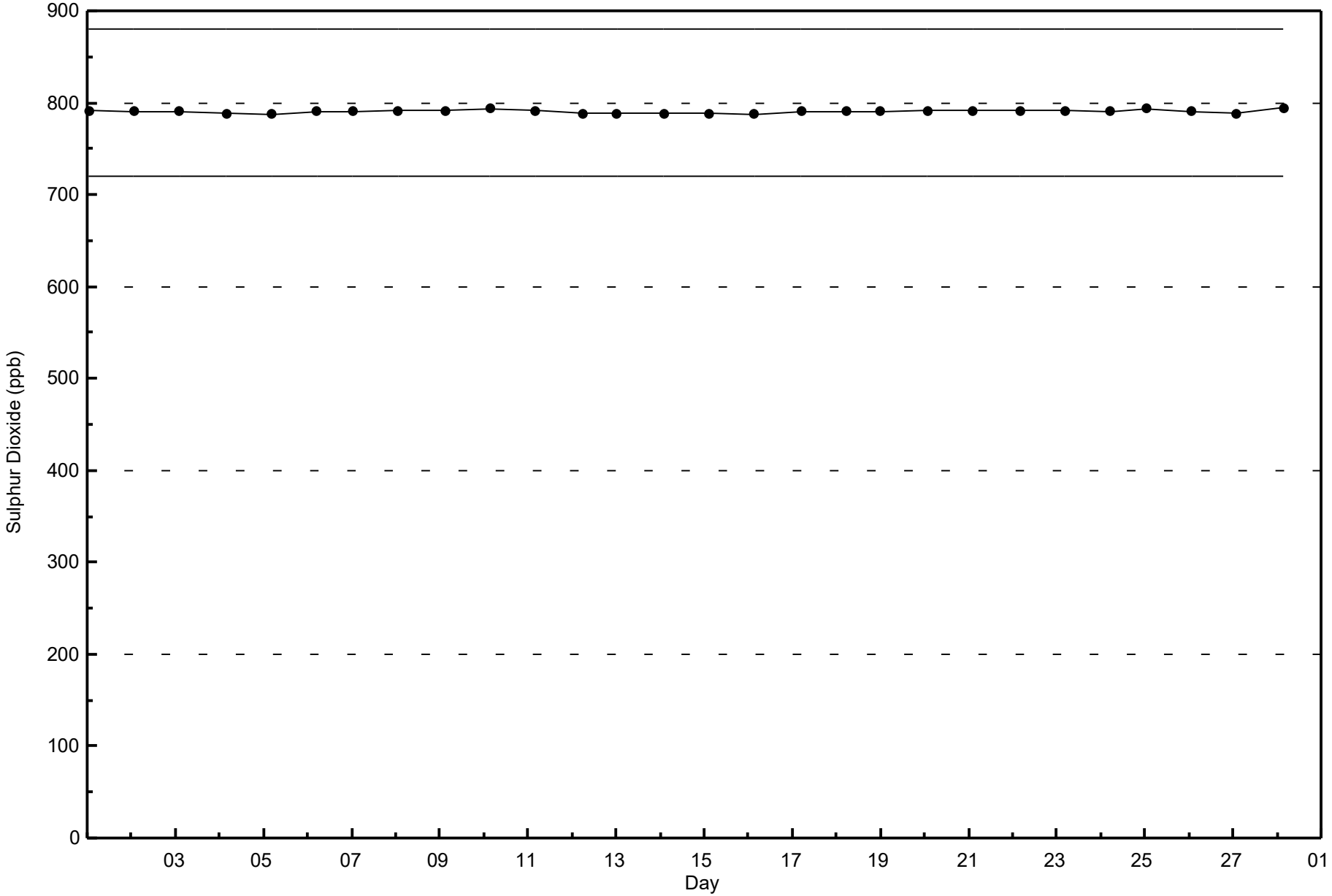


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Wapasu - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Wapasu - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 1.6 ppb on Feb 14 18:00 Maximum Daily Average: 0.5 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 23 04:00 Minimum Daily Average: 0.0 ppb on Feb 1
Maximum Diurnal Average: 0.2 ppb at hour 18 Minimum Diurnal Average: 0.1 ppb at hour 24
Monthly Average: 0.14 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.1 Q_3 = 0.2 P_{90} = 0.3 P_{99} = 1.0

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	Z	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2-Feb	0.0	0.0	Z	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.2	0.6	1.1	0.4	0.3	0.2	1.1
3-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.6	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.6
4-Feb	0.1	0.1	0.0	0.0	Z	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.2
5-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.2
6-Feb	Z	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1
7-Feb	0.1	Z	1.0	0.9	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.0
8-Feb	0.1	0.1	Z	0.2	0.4	0.5	0.5	0.6	0.9	1.1	0.8	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.3	1.1
9-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	C	C	C	C	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
10-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
12-Feb	Z	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.3	0.3	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.2	0.2	0.4
13-Feb	0.2	Z	0.2	0.4	0.3	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.4
14-Feb	0.2	0.4	Z	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.3	0.3	0.5	0.3	0.9	1.6	1.0	1.4	1.1	0.8	0.6	0.5	0.5	1.6
15-Feb	0.6	0.3	0.2	Z	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.2	0.6
16-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	1.0	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	1.0
17-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1
18-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
19-Feb	0.2	Z	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3
20-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.5	0.4	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.5
21-Feb	0.0	0.0	0.1	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1
23-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.2	0.2	0.4	0.3	M	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.4
24-Feb	Z	0.2	0.3	0.2	0.3	0.4	0.4	0.5	0.5	0.8	0.5	0.4	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.8
25-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.3	0.1	0.2	0.2	0.1	0.1	0.2	0.8	0.7	0.3	0.3	0.2	0.1	0.1	0.2	0.8
26-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1
27-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1
28-Feb	0.0	0.0	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	Diurnal Average	
	0.6	0.4	1.0	0.9	0.4	0.5	0.5	0.6	0.9	1.1	0.8	0.4	0.4	1.0	0.6	0.5	0.9	1.6	1.0	1.4	1.1	1.1	0.6	0.5	Diurnal Maximum	

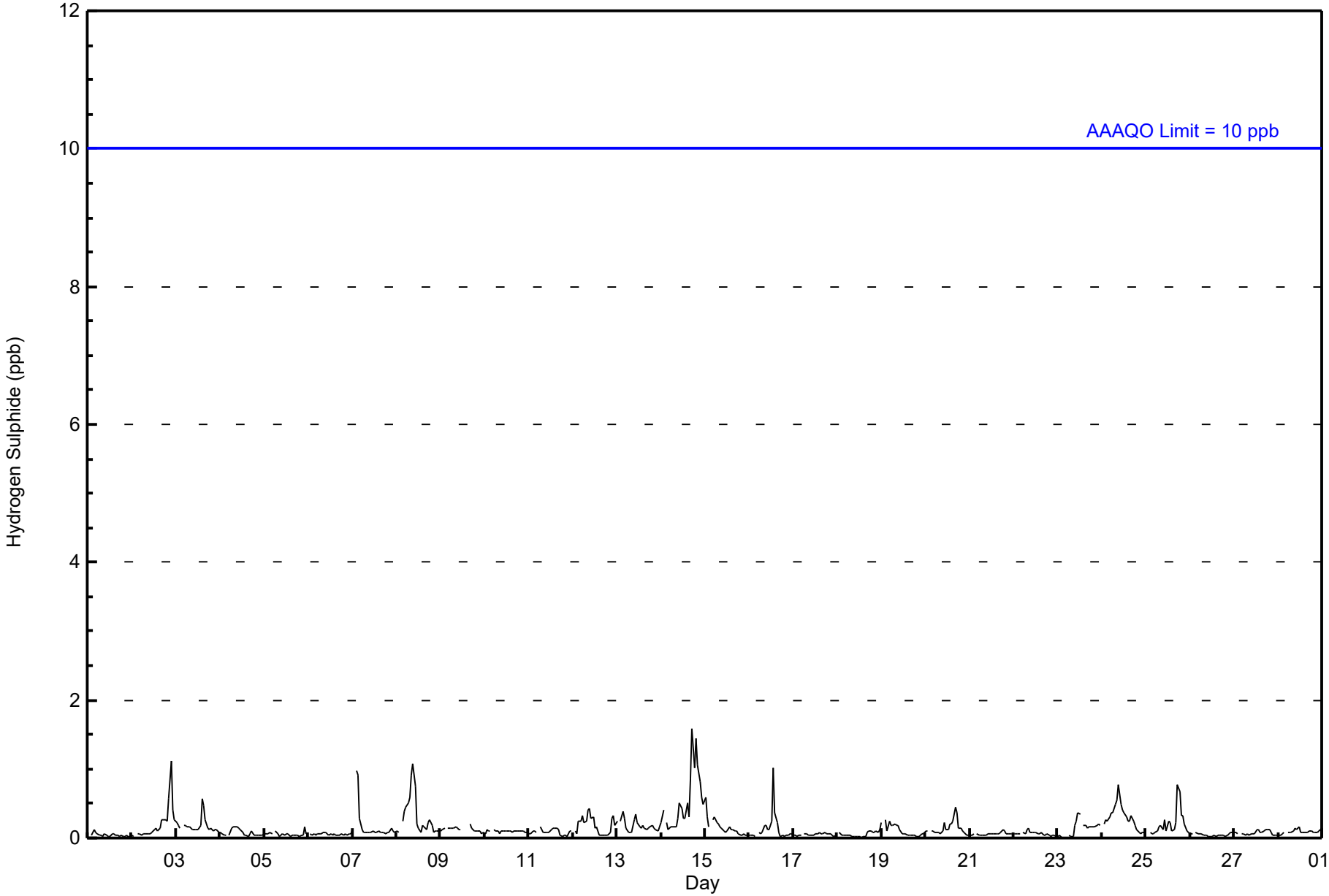
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Wapasu - February 2026



Hydrogen Sulphide (H_2S) - ppb

Wapasu - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	639	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Wapasu - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	68	120	64	19	8	5	28	92	103	46	32	24	5	7	5	13	639
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	68	120	64	19	8	5	28	92	103	46	32	24	5	7	5	13	639

Total Number of Valid Hours: 639

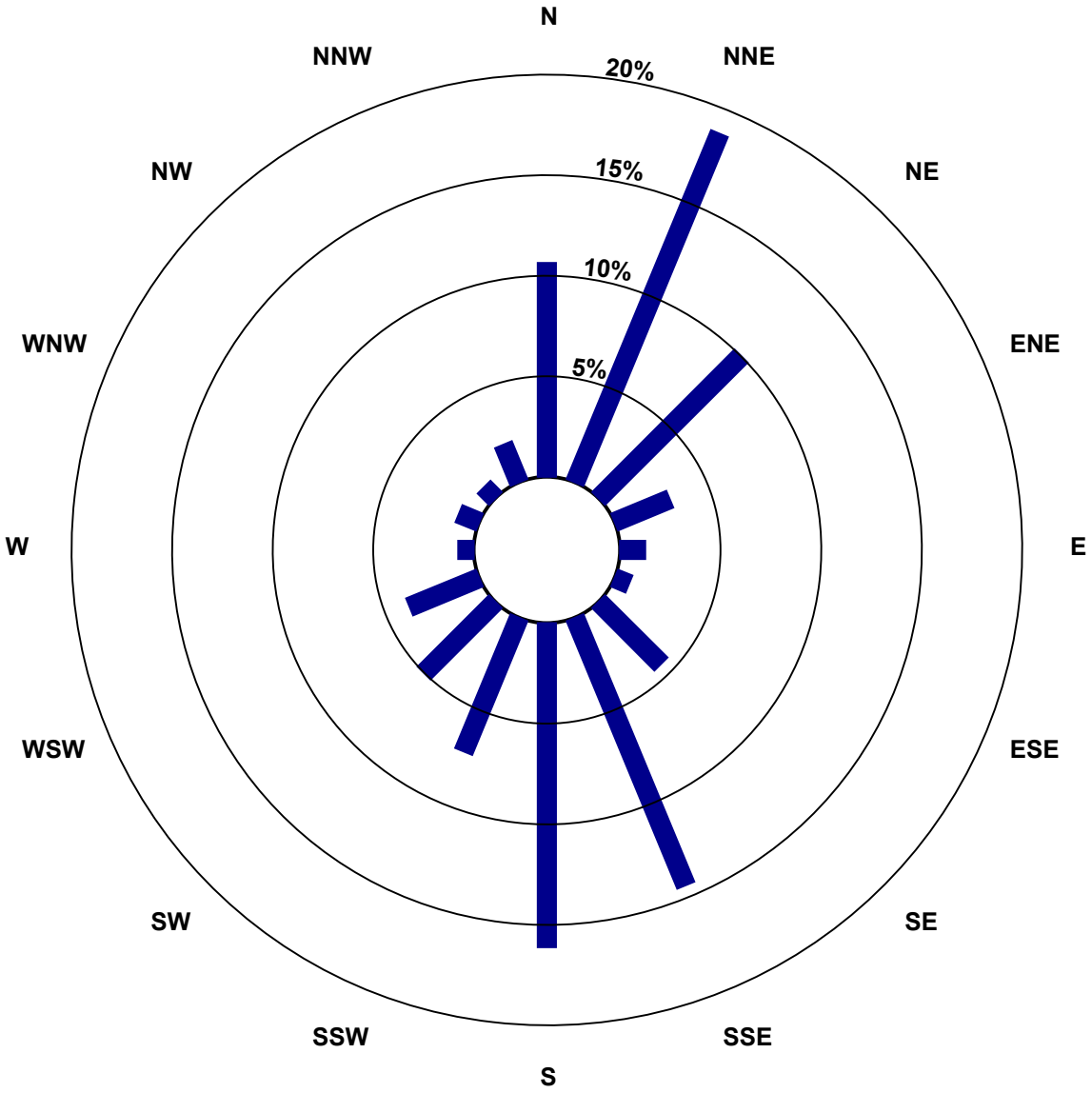
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Wapasu



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

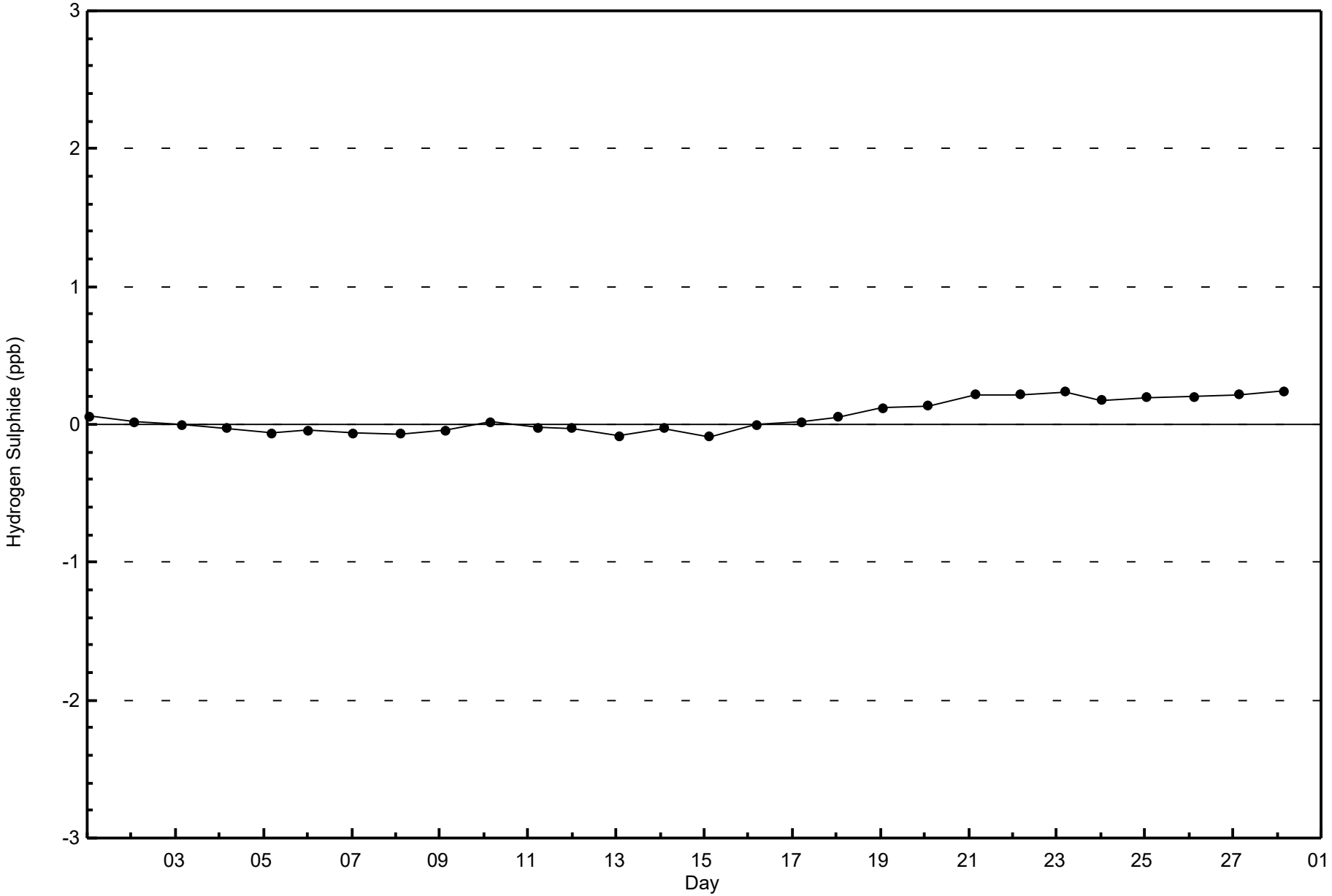
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Wapasu - February 2026

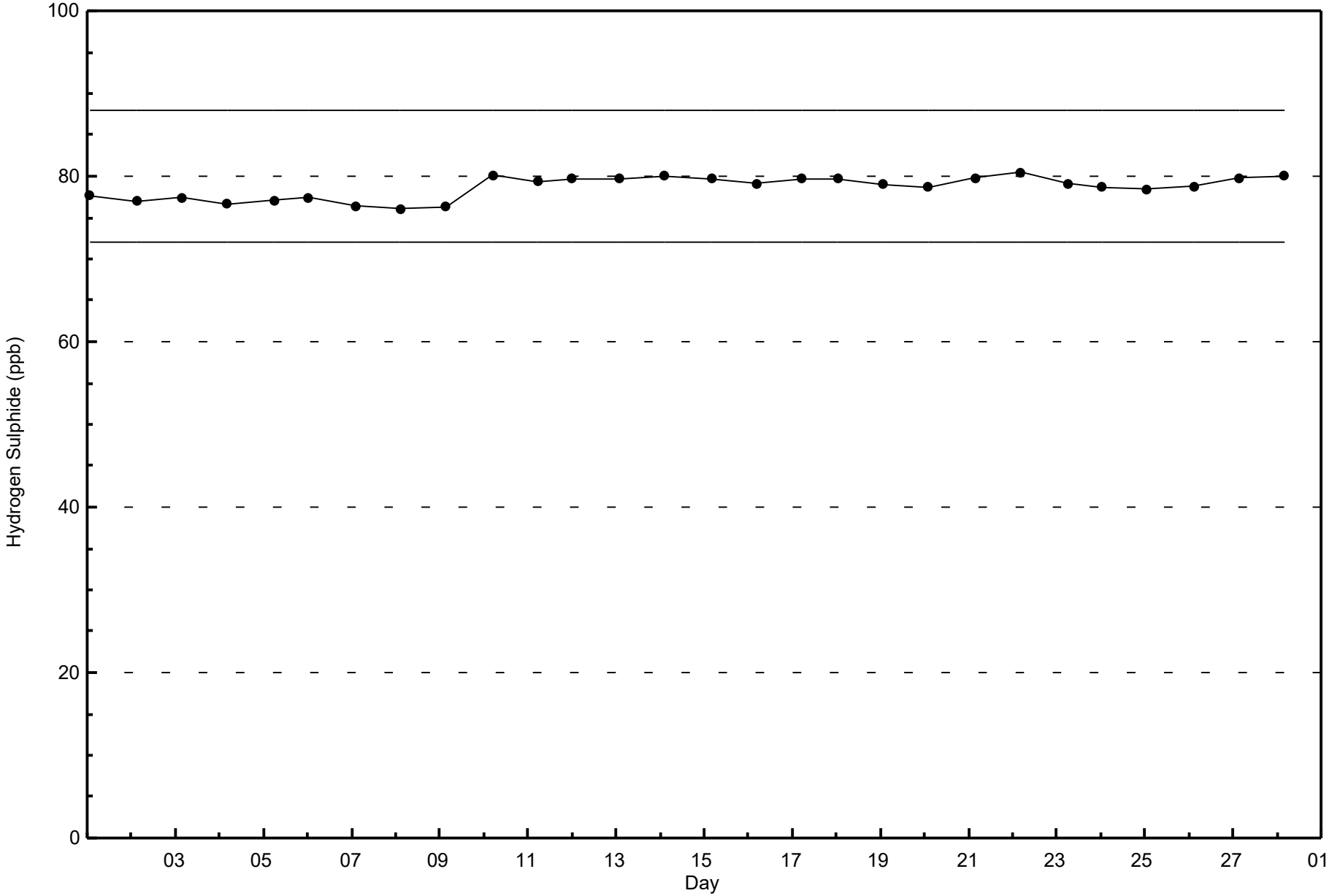


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Wapasu - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Wapasu - February 2026

Maximum Value: 3.1 ppm on Feb 14 18:00

Maximum Daily Average: 2.5 ppm on Feb 14

Minimum Value: 2.2 ppm on Feb 26 15:00

Minimum Daily Average: 2.2 ppm on Feb 26

Maximum Diurnal Average: 2.3 ppm at hour 22

Minimum Diurnal Average: 2.3 ppm at hour 16

Monthly Average: 2.30 ppm

Percentiles: P_1 = 2.2 P_{10} = 2.2 Q_1 = 2.2 Median = 2.3 Q_3 = 2.3 P_{90} = 2.4 P_{99} = 2.7

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.3	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
2-Feb	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.4	2.5	2.5	2.7	2.9	2.5	2.4	2.3	2.9
3-Feb	2.4	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
4-Feb	2.3	2.3	2.2	Z	2.2	2.2	2.3	2.3	2.4	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4
5-Feb	2.2	2.2	2.3	2.2	Z	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
6-Feb	2.3	2.3	2.3	2.3	2.2	Z	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.3
7-Feb	Z	2.3	2.7	2.8	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8
8-Feb	2.3	Z	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.6
9-Feb	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
10-Feb	2.3	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
11-Feb	2.3	2.3	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3
12-Feb	2.3	2.2	2.2	2.3	2.4	Z	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.4
13-Feb	Z	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.4	2.4	2.3	2.3	2.4	2.3	2.4
14-Feb	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.4	2.5	2.4	2.7	3.1	2.9	3.0	2.8	2.8	2.6	2.5	2.5	3.1
15-Feb	2.5	2.3	Z	2.2	2.3	2.2	2.2	2.2	2.3	2.2	2.3	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5
16-Feb	2.3	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.5
17-Feb	2.3	2.3	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3
18-Feb	2.2	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
19-Feb	Z	2.4	2.4	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.4
20-Feb	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
21-Feb	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3	2.3	2.2	2.3
22-Feb	2.3	2.3	2.3	Z	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
23-Feb	2.2	2.2	2.2	2.2	Z	2.3	2.3	2.3	2.3	2.3	2.4	2.4	C	C	C	C	C	2.4	2.5	2.5	2.5	2.6	2.5	2.5	2.4	2.6
24-Feb	2.5	2.5	2.5	2.5	2.6	Z	2.6	2.7	2.7	2.5	2.4	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.7
25-Feb	Z	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.6	2.6	2.5	2.5	2.4	2.3	2.3	2.3	2.6
26-Feb	2.3	Z	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.3
27-Feb	2.2	2.3	Z	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.4
28-Feb	2.3	2.3	2.3	Z	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	Diurnal Average	
	2.5	2.5	2.7	2.8	2.6	2.5	2.6	2.7	2.7	2.6	2.5	2.4	2.4	2.5	2.5	2.4	2.7	3.1	2.9	3.0	2.8	2.9	2.6	2.5	Diurnal Maximum	

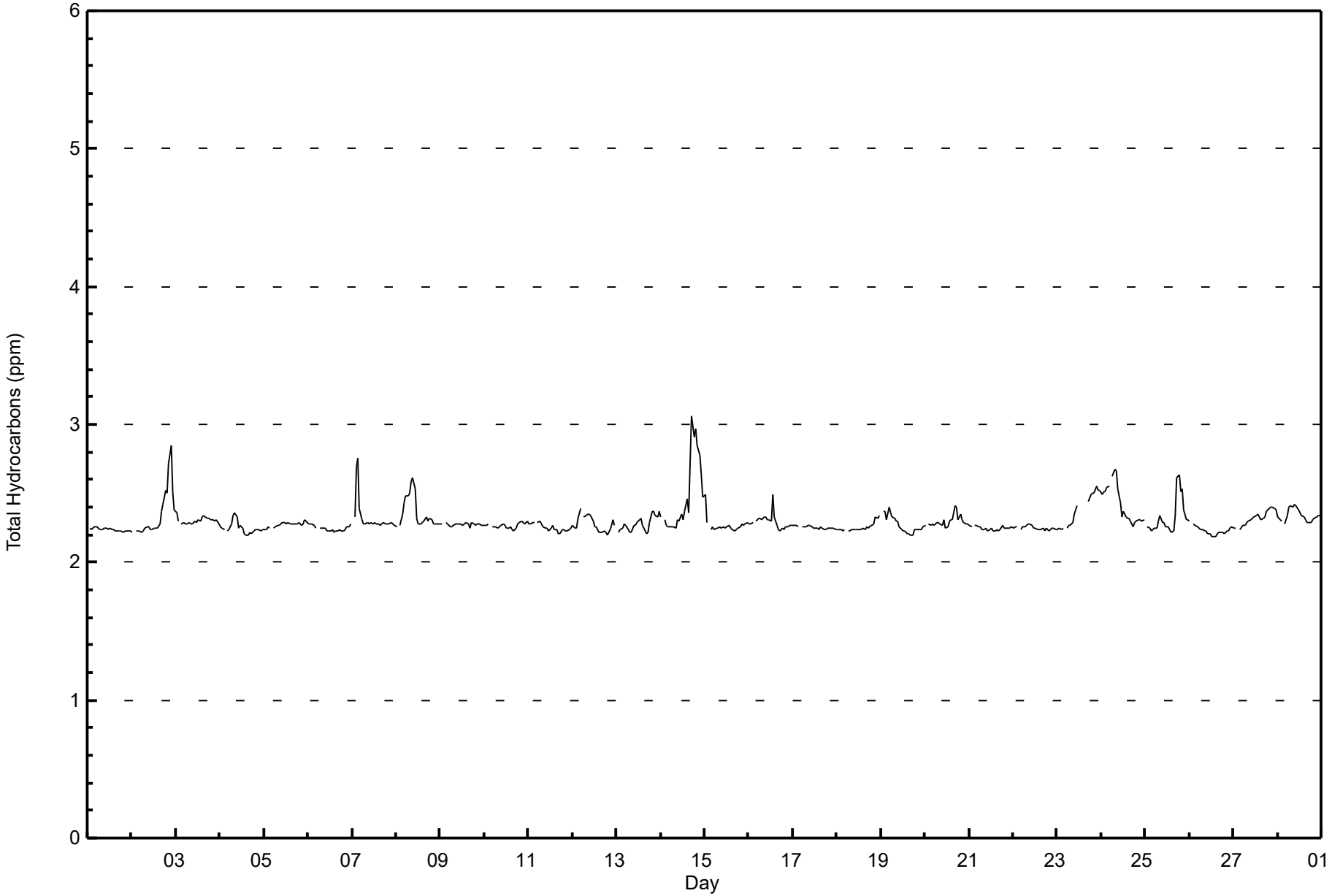
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Wapasu - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Total Hydrocarbons (THC) - ppm

Wapasu - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	0	0.00	0.00
2.1 - 3.0	638	99.84	99.84
3.1 - 10.0	1	0.16	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Wapasu - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.1 - 3.0	70	119	65	21	7	5	29	92	103	46	32	24	5	6	2	12	638
3.1 - 10.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	70	120	65	21	7	5	29	92	103	46	32	24	5	6	2	12	639

Total Number of Valid Hours: 639

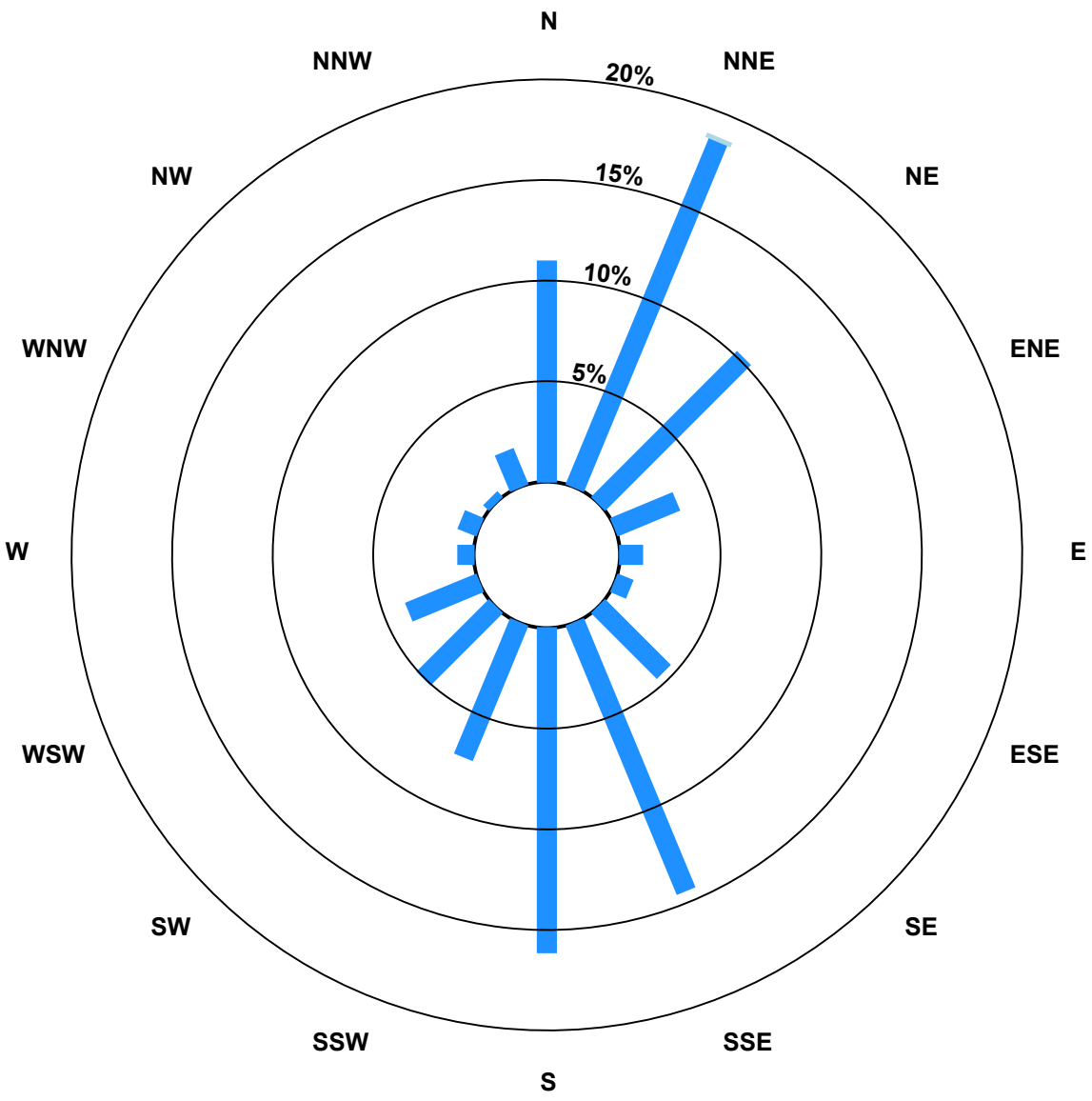
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Wapasu



Classes (ppm)

- 0 - 2.0
- 2.1 - 3.0
- 3.1 - 10.0
- > 10.0

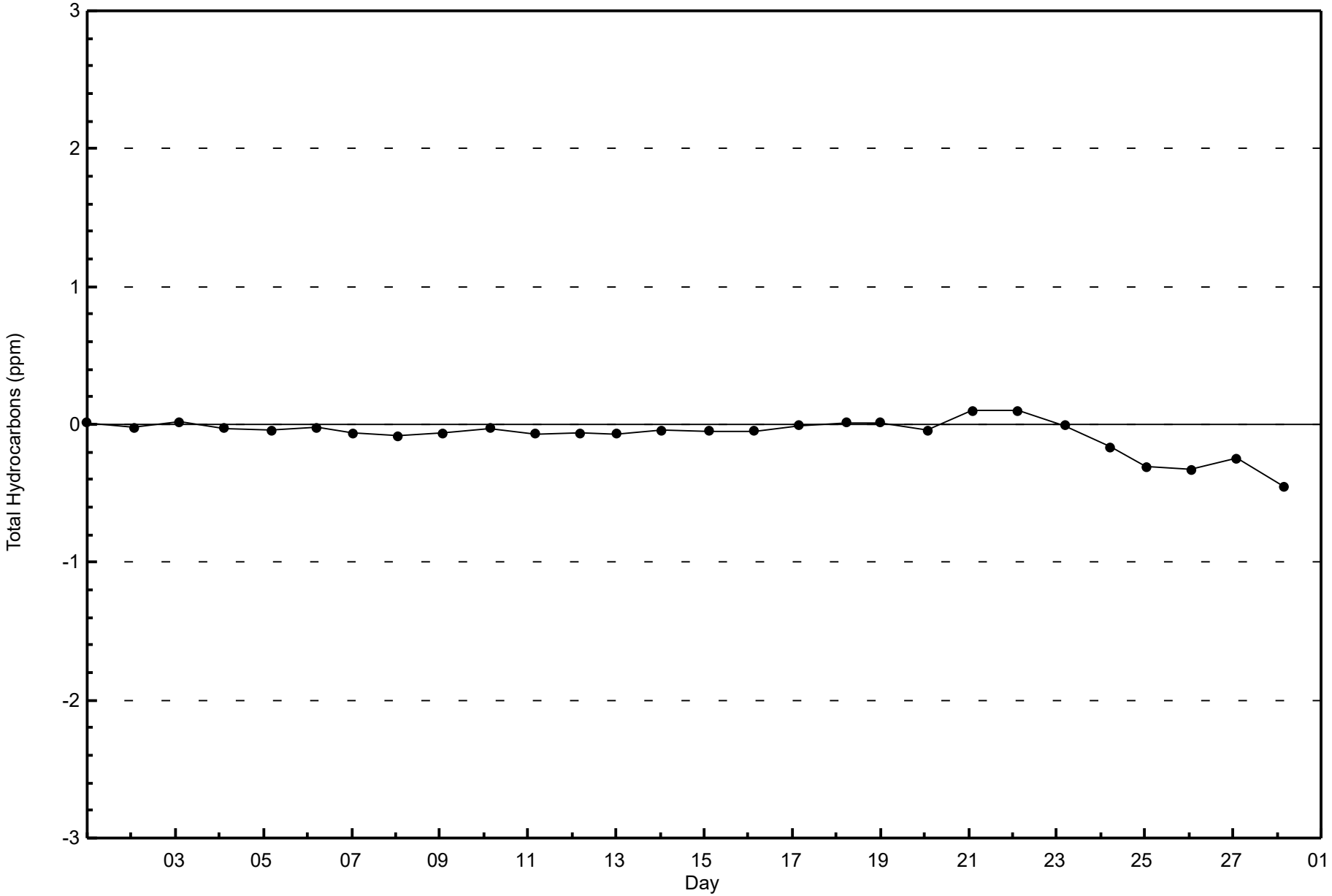
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Wapasu - February 2026

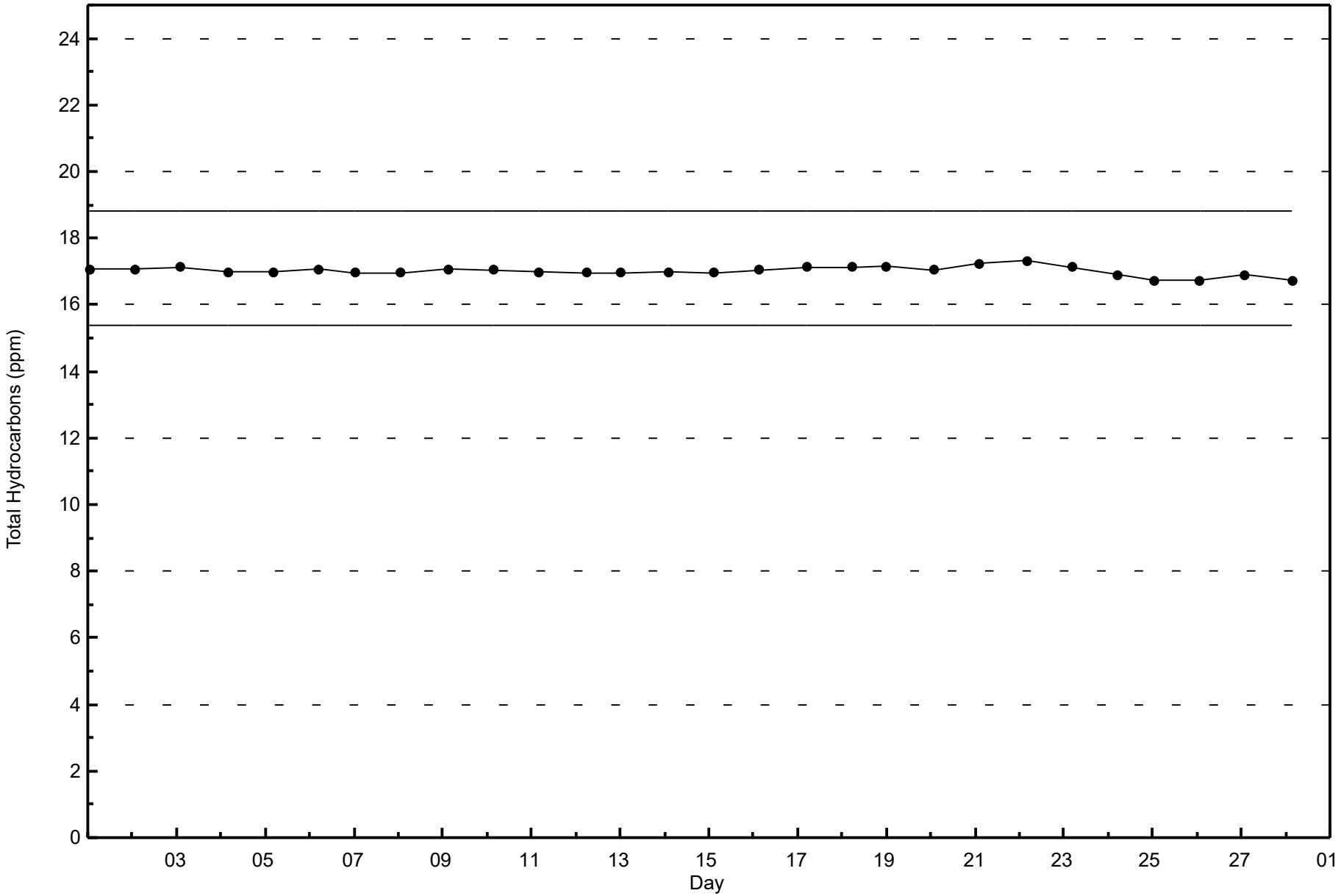


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Wapasu - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ozone (O_3) - ppb

Wapasu - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 44.7 ppb on Feb 13 15:00
Maximum Daily Average: 39.6 ppb on Feb 13

Minimum Value: 0.7 ppb on Feb 8 06:00
Minimum Daily Average: 3.5 ppb on Feb 18
Maximum Diurnal Average: 29.8 ppb at hour 15
Minimum Diurnal Average: 23.4 ppb at hour 1
Monthly Average: 25.62 ppb
Percentiles: P_1 = 0.9 P_{10} = 11.4 Q_1 = 20.8 Median = 28.3 Q_3 = 31.8 P_{90} = 35.0 P_{99} = 43.1

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	31
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	34.8	37.4	Z	33.6	35.5	36.8	38.0	38.2	39.3	37.7	37.6	37.7	37.1	35.6	36.4	36.7	37.3	37.7	37.9	38.2	38.0	37.4	37.1	36.8	37.1	39.3
2-Feb	36.1	35.6	35.4	Z	34.6	33.5	32.6	30.7	29.3	28.5	30.2	30.2	C	C	C	23.2	15.0	13.3	12.5	10.4	3.9	0.8	8.2	16.5	23.0	36.1
3-Feb	15.2	24.0	26.2	28.6	Z	28.3	30.1	31.3	32.6	32.2	31.3	31.3	29.2	28.8	24.5	21.2	23.0	22.7	23.2	23.8	23.4	23.3	22.7	24.1	26.1	32.6
4-Feb	25.5	26.0	26.4	25.8	25.8	Z	22.6	23.5	22.1	24.2	26.1	27.6	28.7	29.6	30.5	31.9	28.2	28.2	28.6	27.9	29.1	29.2	29.6	29.4	27.2	31.9
5-Feb	Z	29.9	30.7	31.7	31.9	32.4	32.4	33.1	33.9	32.9	32.0	33.1	34.4	34.5	35.0	35.4	35.2	35.2	35.3	35.2	35.3	34.8	33.1	32.6	33.5	35.4
6-Feb	33.4	Z	33.2	34.1	34.3	33.2	32.0	31.7	30.7	30.0	30.8	31.6	31.1	31.0	30.8	29.9	29.3	28.7	28.2	27.9	27.3	26.5	20.6	17.2	29.7	34.3
7-Feb	12.5	12.3	Z	1.9	18.4	27.1	30.6	31.9	30.6	32.1	32.5	32.1	32.3	32.4	32.4	32.0	31.7	31.2	30.8	30.4	30.0	28.9	29.1	27.7	27.4	32.5
8-Feb	26.6	26.0	25.2	Z	0.9	0.7	0.7	0.8	1.5	3.6	6.2	23.8	28.5	30.1	29.0	26.1	22.6	27.0	22.8	26.9	31.8	30.5	31.0	30.8	19.7	31.8
9-Feb	29.8	29.5	30.2	30.9	Z	30.4	31.3	30.3	28.9	30.1	30.8	31.5	31.7	32.8	33.2	34.2	33.9	32.6	34.1	35.0	35.2	34.7	34.6	33.7	32.1	35.2
10-Feb	32.7	30.5	30.8	28.6	29.4	Z	29.4	28.5	28.0	28.4	27.0	27.6	27.5	27.2	27.9	27.9	27.0	24.8	24.4	24.9	24.5	26.1	26.5	25.7	27.6	32.7
11-Feb	Z	25.6	24.1	24.6	25.3	25.9	25.3	26.3	28.3	30.7	31.8	32.2	32.1	32.3	34.3	32.9	33.2	32.5	30.2	28.4	30.3	30.4	30.4	27.9	29.3	34.3
12-Feb	27.2	Z	29.7	26.9	27.5	27.3	28.8	28.3	27.1	28.6	31.3	33.6	35.8	35.9	38.6	38.9	39.8	39.7	40.3	42.4	39.6	35.0	31.8	40.6	33.7	42.4
13-Feb	42.5	42.5	Z	43.6	43.2	42.4	43.3	43.2	41.7	40.5	42.0	43.1	42.9	43.2	44.7	44.3	42.8	39.6	34.1	32.9	31.8	29.3	30.0	26.2	39.6	44.7
14-Feb	27.2	24.0	25.3	Z	31.9	34.3	34.1	32.4	32.6	33.6	32.0	33.1	34.7	34.8	32.9	35.5	14.1	1.2	1.0	0.7	0.7	0.9	14.3	11.6	22.7	35.5
15-Feb	5.1	22.5	27.5	27.4	Z	27.8	29.4	30.9	30.6	30.8	31.2	30.0	29.0	27.9	27.2	26.8	27.5	27.7	27.6	24.6	20.9	24.1	20.1	17.4	25.8	31.2
16-Feb	19.5	19.4	17.8	15.5	14.0	Z	14.5	13.2	9.7	17.5	21.2	19.7	18.4	11.7	14.4	15.9	16.5	17.7	18.4	18.4	18.2	18.1	16.2	16.7	16.6	21.2
17-Feb	Z	17.1	17.6	18.2	18.9	20.9	22.0	19.3	17.9	18.7	19.3	21.8	23.5	23.9	24.8	26.1	26.6	26.7	26.8	24.7	22.0	19.6	15.9	10.1	21.0	26.8
18-Feb	8.0	Z	4.2	3.1	3.3	3.3	3.4	3.9	4.1	4.4	4.3	4.2	4.0	3.5	3.4	4.3	5.1	5.1	1.7	1.2	1.2	1.2	1.2	1.3	3.5	8.0
19-Feb	1.3	1.4	Z	2.8	1.3	1.2	1.2	1.9	5.1	9.1	13.0	16.6	20.5	24.2	30.3	31.6	28.5	26.3	27.5	28.4	29.0	29.5	30.0	30.6	17.0	31.6
20-Feb	28.6	28.2	26.5	Z	30.3	32.5	31.2	30.2	32.2	32.5	33.7	36.4	34.9	31.7	32.3	29.3	20.9	19.8	29.9	24.4	22.6	22.3	22.2	22.1	28.5	36.4
21-Feb	21.9	21.4	20.8	21.9	Z	26.9	23.9	23.6	22.8	24.2	32.6	31.7	28.9	31.0	31.2	30.5	31.0	29.4	23.3	22.0	19.1	16.8	15.9	15.5	24.6	32.6
22-Feb	18.1	18.0	17.4	16.2	16.7	Z	15.4	13.2	20.5	27.1	28.5	29.4	31.6	32.9	34.3	33.6	32.3	31.7	31.7	31.6	31.5	31.6	31.4	31.3	26.3	34.3
23-Feb	Z	30.9	30.7	30.5	30.0	29.6	29.1	27.6	27.8	25.0	23.5	24.2	25.9	M	26.1	26.6	26.6	20.9	16.6	15.2	12.5	9.8	10.0	11.4	23.2	30.9
24-Feb	13.1	Z	11.3	9.2	7.4	7.9	7.8	8.4	12.1	16.4	19.4	21.2	22.1	25.4	28.0	27.3	22.5	20.7	21.2	24.9	29.4	31.4	31.7	30.5	19.5	31.7
25-Feb	31.2	33.1	Z	36.1	35.5	33.5	32.6	17.8	19.7	32.7	32.6	34.0	32.5	32.0	37.4	34.5	24.9	5.3	7.5	17.7	19.0	26.5	29.5	28.6	27.6	37.4
26-Feb	28.3	27.9	28.1	Z	27.7	29.4	31.7	29.0	26.6	28.9	27.8	28.4	30.6	31.8	32.6	29.6	28.5	27.5	29.4	30.7	28.3	24.2	25.1	27.0	28.7	32.6
27-Feb	29.9	31.3	31.8	31.4	Z	28.3	25.5	23.0	20.6	18.1	18.8	18.4	17.1	16.8	17.5	17.3	14.9	12.8	10.3	9.6	14.0	12.7	12.1	12.1	19.3	31.8
28-Feb	12.2	12.2	12.5	17.0	20.7	Z	20.2	21.1	23.5	27.3	29.4	30.3	33.7	34.5	34.0	33.8	32.2	31.6	32.0	32.5	31.4	30.4	29.0	27.4	26.5	34.5
	23.4	25.3	24.5	23.5	23.7	25.8	25.0	24.0	24.3	25.9	27.0	28.4	28.8	29.1	29.8	29.2	26.8	24.9	24.5	24.7	24.3	23.8	23.9	23.7	Diurnal Average	
	42.5	42.5	35.4	43.6	43.2	42.4	43.3	43.2	41.7	40.5	42.0	43.1	42.9	43.2	44.7	44.3	42.8	39.7	40.3	42.4	39.6	37.4	37.1	40.6	Diurnal Maximum	

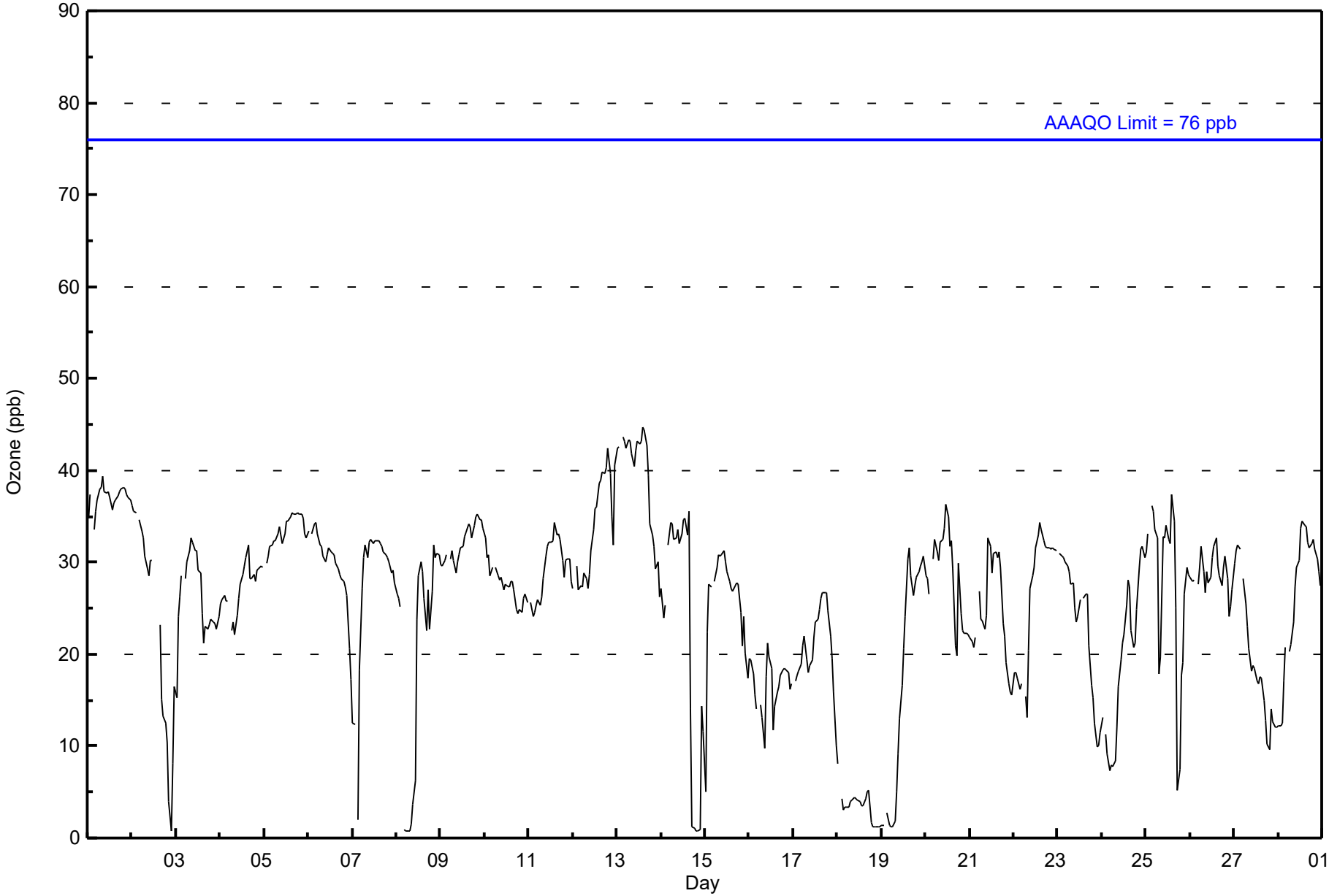
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 76 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ozone (O_3) - ppb

Wapasu - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	154	24.06	24.06
21 - 50	486	75.94	100.00
51 - 82	0	0.00	100.00
> 83	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Ozone (O_3) - ppb

Wapasu - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	23	44	18	6	3	3	11	23	6	4	1	1	1	2	0	8	154
21 - 50	44	80	47	14	5	1	17	71	94	40	31	23	4	5	5	5	486
51 - 82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	67	124	65	20	8	4	28	94	100	44	32	24	5	7	5	13	640

Total Number of Valid Hours: 640

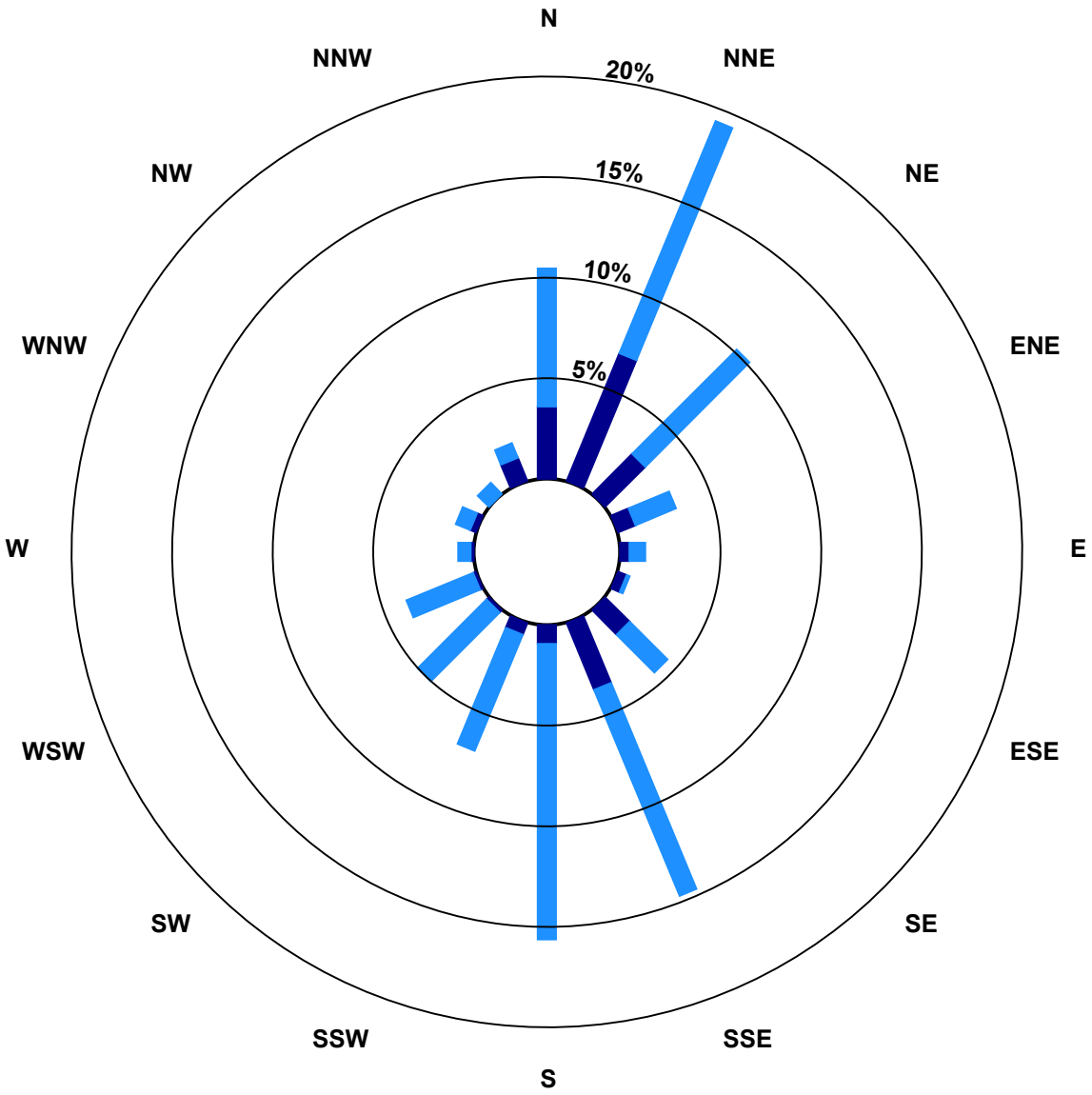
Total Number of Hours: 672

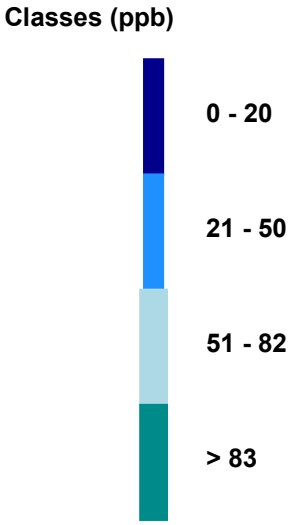
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Ozone (O_3) - ppb

Wapasu





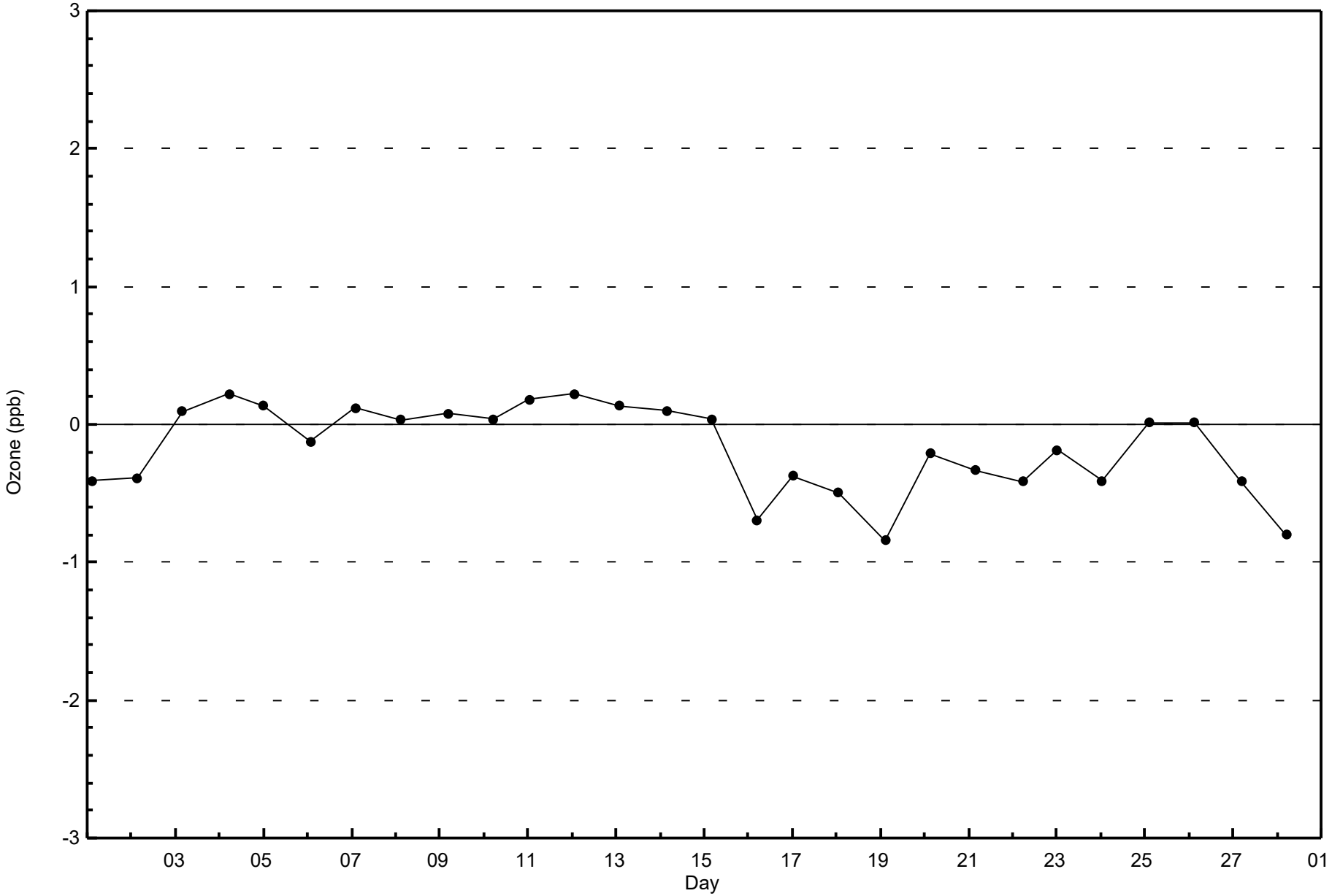
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Ozone (O_3) - ppb

Wapasu - February 2026

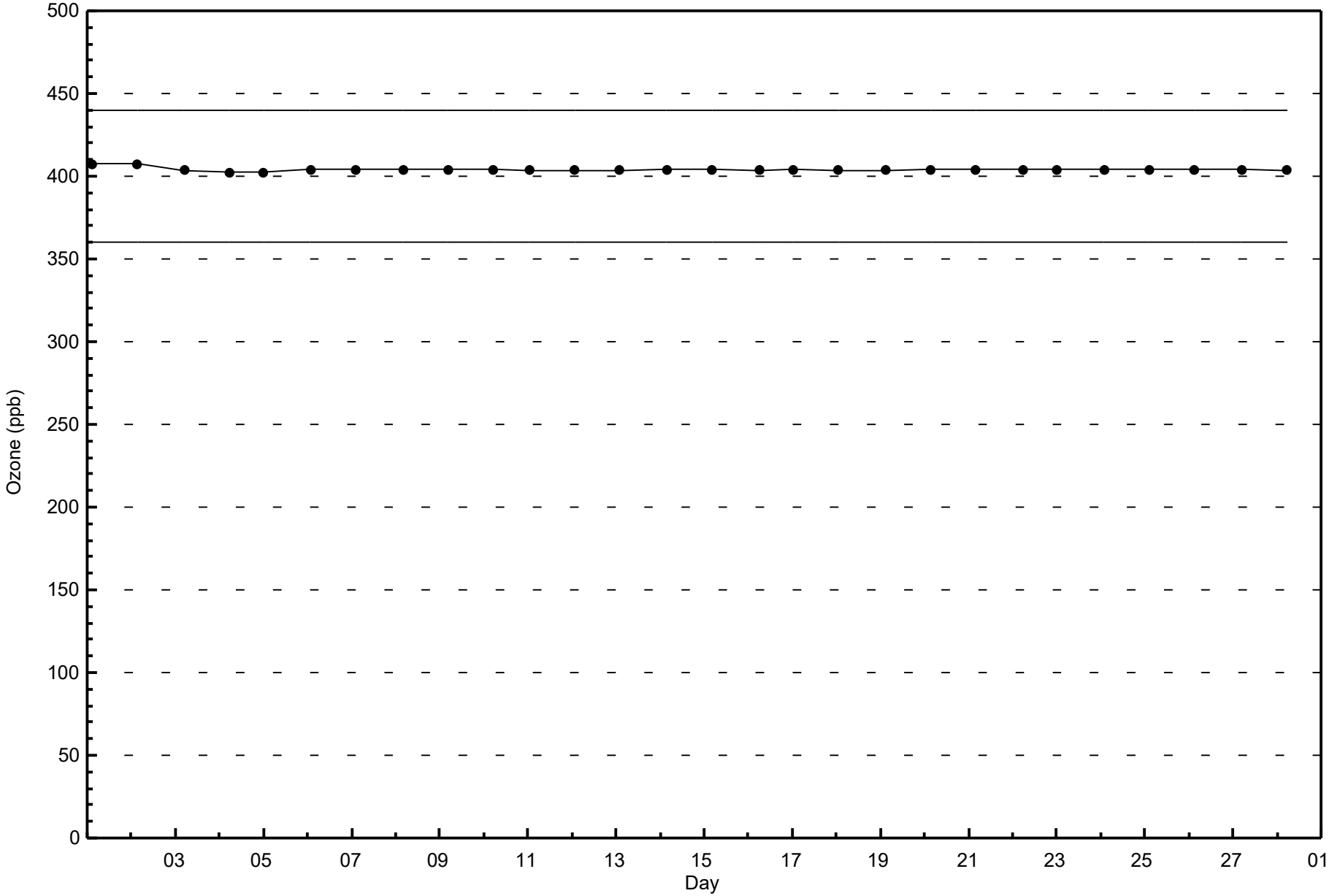


Wood Buffalo Environmental Association

Span Responses

Ozone (O_3) - ppb

Wapasu - February 2026



Maximum Value: 37.5 ppb on Feb 14 20:00 — Maximum Daily Average: 6.8 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 1 18:00 — Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 2.6 ppb at hour 14 — Minimum Diurnal Average: 0.3 ppb at hour 6

Monthly Average: 1.16 ppb — Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.5 P_{90} = 2.8 P_{99} = 19.8

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
2-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.3	0.3	0.3	0.5	0.6	0.5	0.7	0.9	0.1	0.0	0.0	10.3	14.2	2.5	0.0	1.4	14.2
3-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.9	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9
4-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.6	0.7	0.7	0.6	0.4	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7
5-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.7	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
6-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7-Feb	0.1	0.9	24.5	20.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	24.5
8-Feb	0.0	0.0	0.0	3.5	8.6	Z	7.9	8.3	12.5	16.5	16.3	2.4	0.6	0.4	0.7	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	16.5
9-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
10-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5	0.3	0.3	0.7	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8
11-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	1.2	2.0	2.5	1.9	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.5
12-Feb	0.1	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.5	1.8	2.8	3.1	2.2	2.3	0.3	0.2	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.0	0.6	3.1
13-Feb	0.0	0.0	0.1	0.0	Z	0.0	0.0	0.0	0.1	0.6	0.7	0.6	0.9	0.9	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9
14-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.1	0.5	2.0	4.4	5.1	4.1	4.4	5.4	2.6	19.9	34.3	4.9	37.5	19.5	9.5	2.9	0.1	6.8	37.5
15-Feb	Z	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.3	1.6	4.2	2.1	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.2
16-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	4.7	5.3	2.0	2.6	7.3	33.9	11.2	3.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	33.9
17-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.5	1.1	0.7	6.6	5.8	5.9	8.1	7.4	10.4	2.1	10.4
19-Feb	20.0	17.5	11.8	3.3	Z	7.1	3.6	2.2	3.3	4.8	3.2	1.7	2.9	2.0	0.8	1.4	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.8	20.0
20-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.4	1.2	2.9	2.1	C	C	C	C	C	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.9
21-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.7	0.1	0.2	0.2	0.5	0.4	0.4	0.5	1.0	1.0	1.1	0.6	0.3	1.1
22-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	2.7	1.3	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.7
23-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	2.1	3.7	5.1	5.4	M	2.4	2.5	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.4
24-Feb	0.0	0.0	0.1	Z	0.1	0.0	0.1	0.9	4.5	7.2	7.5	6.5	5.3	3.8	2.9	2.9	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.5
25-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.8	2.5	1.2	12.4	1.5	2.8	2.6	0.4	0.5	2.0	7.5	3.6	0.1	0.0	0.0	0.0	0.0	1.7	12.4
26-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.1	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
27-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.5	0.3	0.9	2.8	4.9	2.0	1.4	2.1	1.2	0.2	0.0	0.1	0.1	0.1	0.0	0.8	4.9
28-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.3	1.1	1.8	1.9	2.8	1.1	1.0	0.8	0.6	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.8
	0.9	0.8	1.5	1.1	0.4	0.3	0.4	0.6	1.2	1.7	2.2	1.4	1.6	2.6	1.3	0.9	1.4	1.7	0.6	1.6	1.3	1.2	0.5	0.4	Diurnal Average	
	20.0	17.5	24.5	20.0	8.6	7.1	7.9	8.3	12.5	16.5	16.3	6.5	7.3	33.9	11.2	3.6	19.9	34.3	6.6	37.5	19.5	14.2	7.4	10.4	Diurnal Maximum	

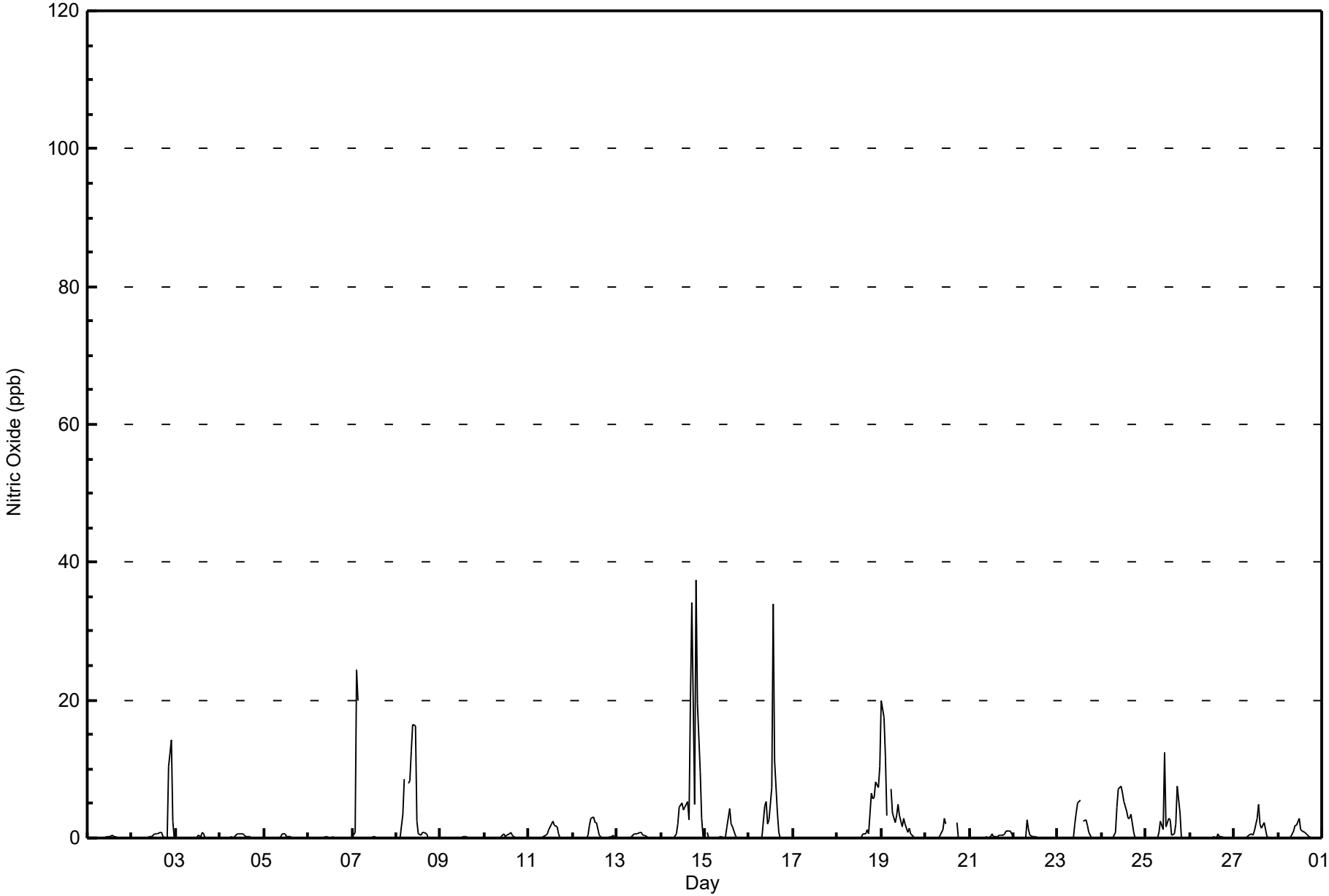
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Wapasu - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	634	99.37	99.37
21 - 40	4	0.63	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Wapasu - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	62	122	66	19	7	4	30	91	103	46	32	24	5	7	5	11	634
21 - 40	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	4
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	63	123	66	20	7	4	30	91	103	46	32	24	5	7	5	12	638

Total Number of Valid Hours: 638

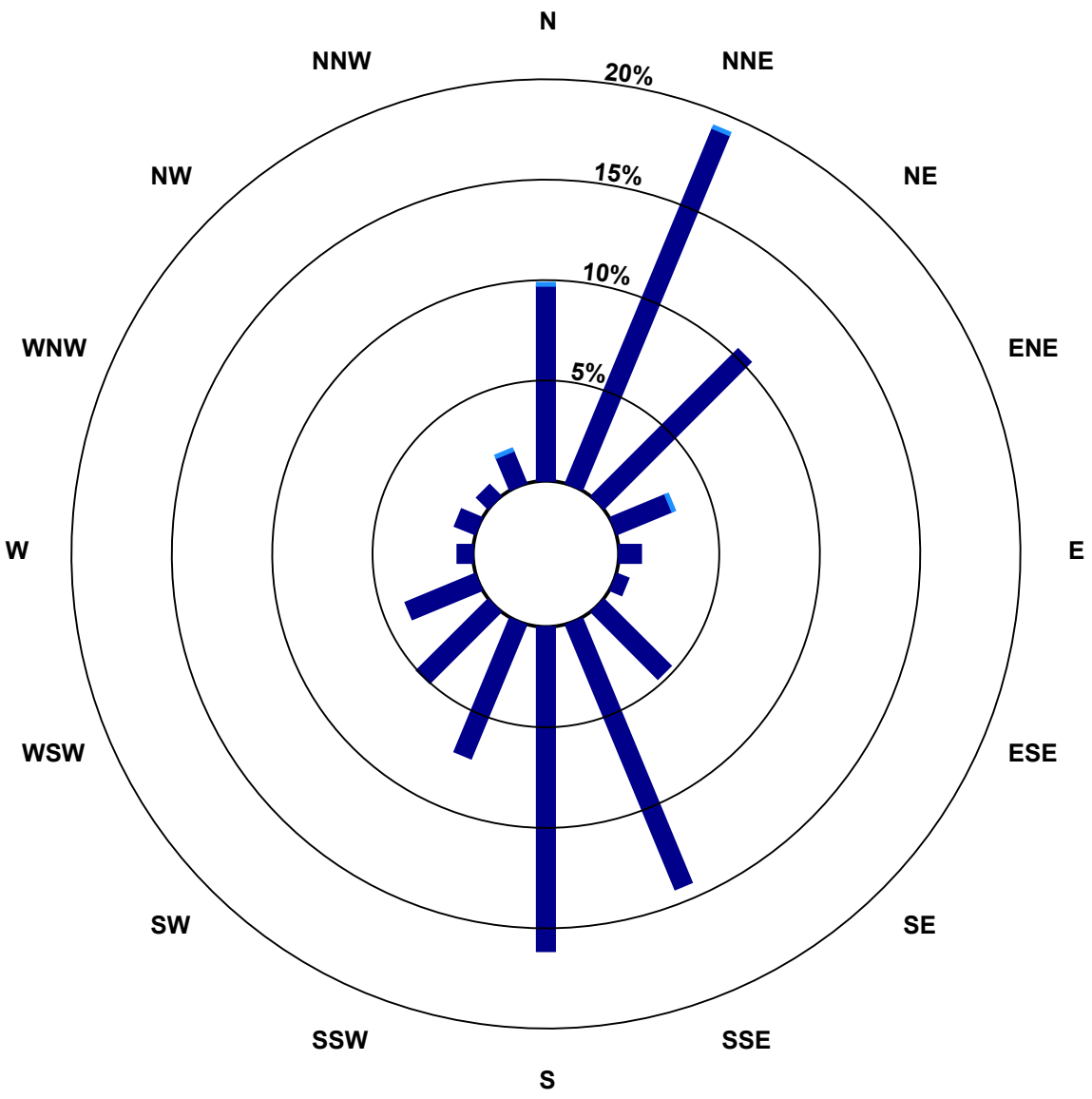
Total Number of Hours: 672

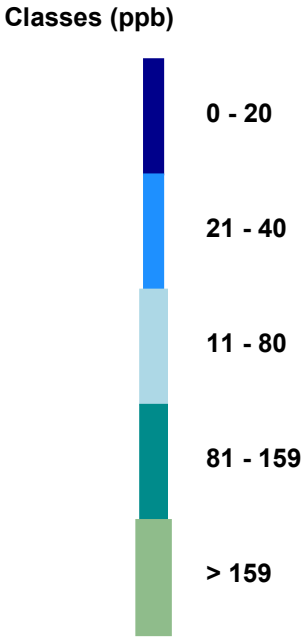
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Wapasu





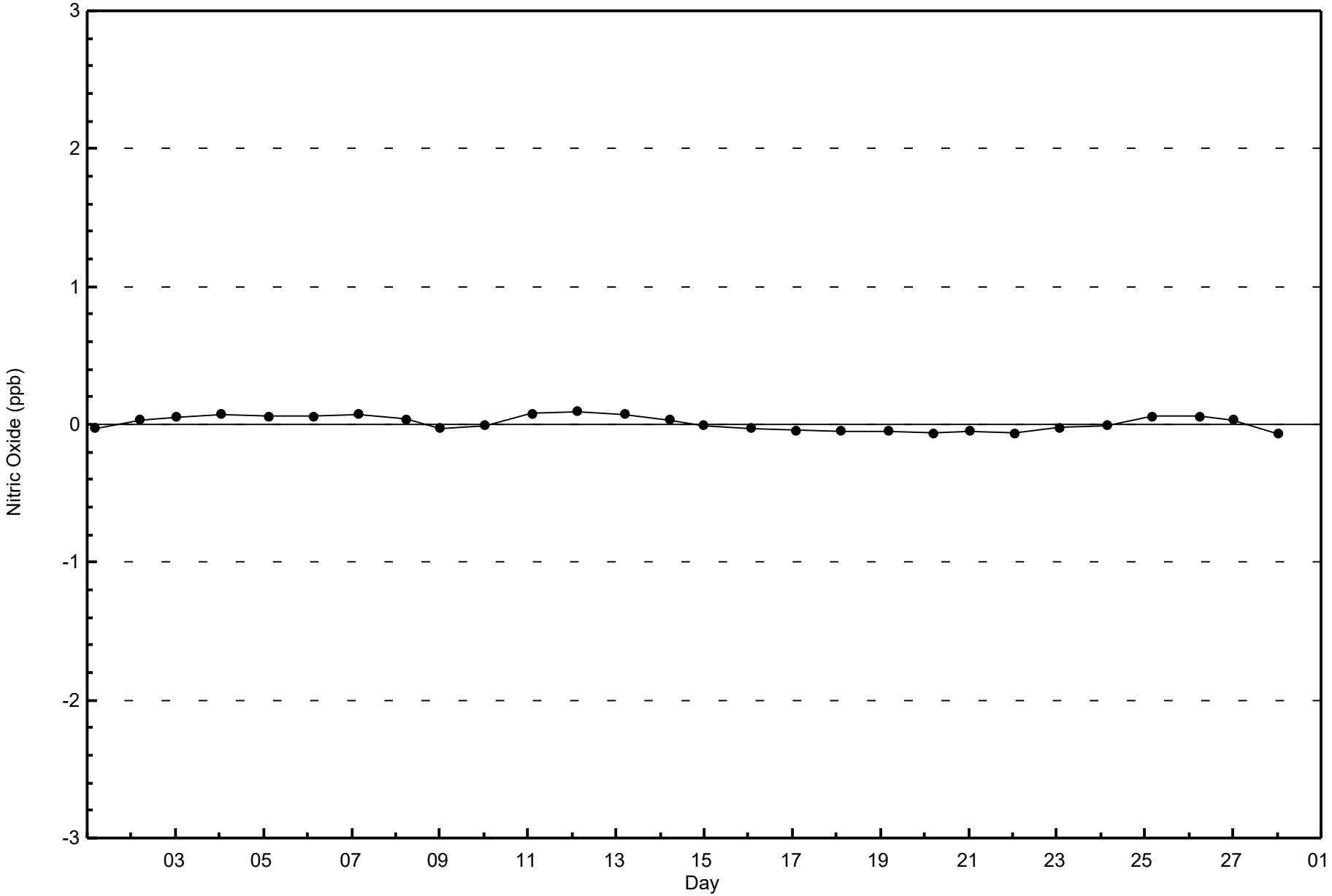
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Wapasu - February 2026

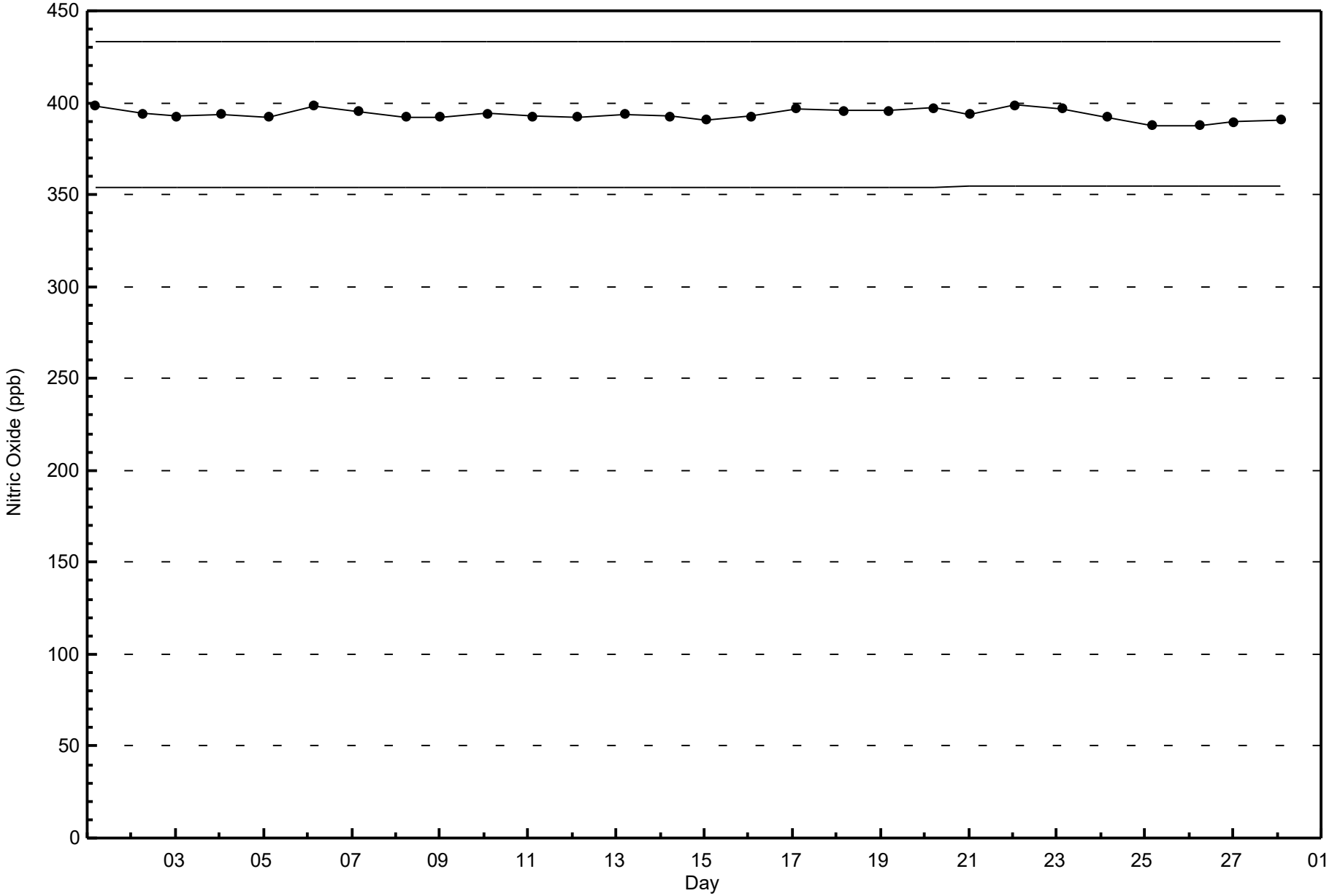


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Wapasu - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Wapasu - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 42.3 ppb on Feb 14 18:00
Maximum Daily Average: 18.2 ppb on Feb 14

Minimum Value: 0.2 ppb on Feb 16 19:00
Minimum Daily Average: 0.2 ppb on Feb 17
Maximum Diurnal Average: 6.3 ppb at hour 18
Minimum Diurnal Average: 2.5 ppb at hour 13
Monthly Average: 4.08 ppb
Percentiles: P_1 = 0.2 P_{10} = 0.3 Q_1 = 0.6 Median = 2.0 Q_3 = 5.0 P_{90} = 9.9 P_{99} = 30.4

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	4.6	2.1	0.4	5.5	Z	2.0	1.3	1.2	0.5	0.7	0.8	0.8	0.9	1.5	1.2	1.2	1.0	0.5	0.4	0.3	0.3	0.4	0.3	0.3	1.2	5.5
2-Feb	0.4	0.4	0.5	0.5	0.6	Z	1.4	3.1	4.1	4.4	2.1	1.4	2.3	2.6	2.8	4.5	12.0	12.3	12.0	13.5	23.0	29.1	20.0	10.8	7.1	29.1
3-Feb	Z	5.0	3.2	0.8	3.2	2.5	1.5	1.3	0.5	0.7	0.8	0.6	2.5	1.7	4.3	5.7	3.3	2.3	1.9	2.6	2.1	2.3	2.9	2.1	2.3	5.7
4-Feb	1.8	Z	2.4	2.3	2.3	3.3	6.5	5.6	5.8	3.9	2.3	2.0	2.0	1.5	0.9	1.3	4.3	1.6	0.6	0.5	0.5	0.9	0.3	0.3	2.3	6.5
5-Feb	0.4	0.3	Z	0.3	0.3	0.3	1.2	1.0	0.5	1.7	3.3	2.4	1.3	1.1	1.3	0.7	0.6	0.6	0.3	0.3	0.4	0.4	1.7	2.2	1.0	3.3
6-Feb	1.0	1.1	1.0	Z	0.5	0.6	0.8	0.7	1.2	1.5	1.1	0.8	0.6	0.6	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.9	0.8	1.5
7-Feb	8.2	13.3	29.0	26.7	Z	3.1	1.4	0.7	2.1	0.7	0.6	1.2	0.8	0.7	0.3	0.3	0.3	0.3	0.5	0.6	0.6	1.9	1.1	0.6	4.1	29.0
8-Feb	0.3	0.4	0.5	20.7	28.4	Z	28.4	28.4	30.2	28.4	27.3	7.3	3.2	1.7	3.2	6.2	9.9	5.1	9.1	5.2	0.6	1.6	0.8	0.4	10.8	30.2
9-Feb	Z	0.4	0.6	0.5	1.2	1.0	0.3	0.3	1.7	0.3	0.4	0.4	0.9	1.2	0.7	0.4	0.3	1.4	0.4	0.3	0.3	0.9	0.4	0.4	0.6	1.7
10-Feb	0.3	Z	1.8	1.0	0.7	0.8	1.0	2.5	2.0	1.0	1.8	1.0	1.3	2.2	2.2	2.0	2.6	3.2	3.3	2.8	3.7	2.6	2.0	2.9	1.9	3.7
11-Feb	3.4	3.9	Z	5.3	4.8	4.7	5.3	5.0	4.3	3.4	2.8	3.2	5.1	6.4	5.0	6.6	5.4	2.8	3.5	4.7	4.0	4.4	4.6	5.2	4.5	6.6
12-Feb	7.0	6.1	5.3	Z	9.8	9.3	5.5	5.6	7.4	7.9	7.7	7.1	5.1	5.6	2.1	2.1	1.6	1.7	1.3	1.2	4.9	11.0	13.9	3.9	5.8	13.9
13-Feb	2.7	3.0	3.2	2.1	Z	2.5	1.4	1.2	2.1	3.6	2.5	2.0	2.5	2.7	1.7	2.0	3.6	4.7	6.1	6.8	6.2	7.8	9.0	12.7	4.0	12.7
14-Feb	12.4	15.6	15.1	10.1	9.1	Z	6.9	7.3	7.2	8.1	10.5	9.7	7.5	9.0	12.2	10.0	30.2	42.3	40.3	41.5	39.4	37.7	18.3	18.4	18.2	42.3
15-Feb	Z	7.0	0.4	0.6	3.5	1.9	1.3	0.4	1.5	1.7	0.4	0.7	1.7	3.8	3.2	3.4	2.6	1.7	0.6	0.3	0.5	0.3	0.6	0.7	1.7	7.0
16-Feb	0.5	Z	1.4	2.2	3.3	2.8	2.1	3.3	9.9	7.1	2.2	2.2	3.7	15.1	7.6	4.2	2.3	0.5	0.2	0.2	0.2	0.3	1.1	0.4	3.2	15.1
17-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
18-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.6	1.5	2.4	4.8	5.1	5.4	5.3	4.7	5.5	1.7	5.5
19-Feb	7.3	7.1	6.6	4.4	Z	7.1	6.8	5.9	3.6	3.0	1.9	1.2	2.3	1.9	1.3	3.0	3.0	4.4	2.5	2.2	1.5	1.2	2.1	2.8	3.6	7.3
20-Feb	5.4	6.3	9.3	6.2	5.4	Z	5.1	6.5	4.1	5.2	6.1	3.8	C	C	C	C	C	17.2	6.3	7.7	4.3	2.9	2.3	1.8	5.9	17.2
21-Feb	Z	1.5	1.9	1.4	1.1	1.0	0.8	0.8	0.9	0.7	0.4	0.5	1.5	0.6	0.6	0.6	0.9	1.3	5.7	2.8	2.5	3.0	2.5	2.0	1.5	5.7
22-Feb	0.4	Z	0.3	0.5	0.5	0.8	1.9	7.1	4.3	1.8	0.9	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.6	0.6	0.5	1.1	7.1
23-Feb	0.3	0.6	Z	0.3	0.2	0.2	0.3	1.1	0.7	4.8	6.9	6.7	5.7	M	6.0	6.0	7.4	11.4	11.5	10.3	11.5	13.4	15.1	13.4	6.1	15.1
24-Feb	12.0	11.5	13.5	Z	15.0	17.1	19.7	19.8	16.3	12.1	8.7	6.7	6.4	5.6	5.3	6.0	10.7	11.5	9.2	6.4	3.9	2.9	2.3	2.3	9.8	19.8
25-Feb	1.8	1.9	1.5	1.4	Z	2.9	3.1	14.3	11.2	4.0	5.7	3.3	5.5	7.8	2.3	4.0	11.9	33.0	30.5	17.6	15.3	5.9	2.0	2.4	8.2	33.0
26-Feb	1.9	1.5	1.0	1.0	1.3	Z	1.3	1.1	1.2	1.5	0.6	0.6	0.5	1.1	0.4	3.0	2.5	3.6	1.8	0.8	1.6	3.9	3.9	4.4	1.8	4.4
27-Feb	Z	3.4	2.7	2.1	1.8	1.8	2.0	2.0	1.5	0.9	0.5	0.8	1.7	2.9	1.5	1.4	3.1	5.2	6.2	6.4	2.8	2.2	1.8	1.7	2.5	6.4
28-Feb	2.1	Z	5.1	5.8	3.3	3.1	4.4	3.9	3.5	3.4	2.8	3.8	1.9	1.8	1.6	1.5	2.4	2.6	1.9	1.4	1.6	2.1	3.4	4.5	3.0	5.8
	3.2	4.0	4.5	4.2	4.2	3.0	4.0	4.7	4.6	4.0	3.6	2.5	2.5	3.1	2.6	2.9	4.6	6.3	5.8	5.1	4.9	5.2	4.2	3.7	Diurnal Average	
	12.4	15.6	29.0	26.7	28.4	17.1	28.4	28.4	30.2	28.4	27.3	9.7	7.5	15.1	12.2	10.0	30.2	42.3	40.3	41.5	39.4	37.7	20.0	18.4	Diurnal Maximum	

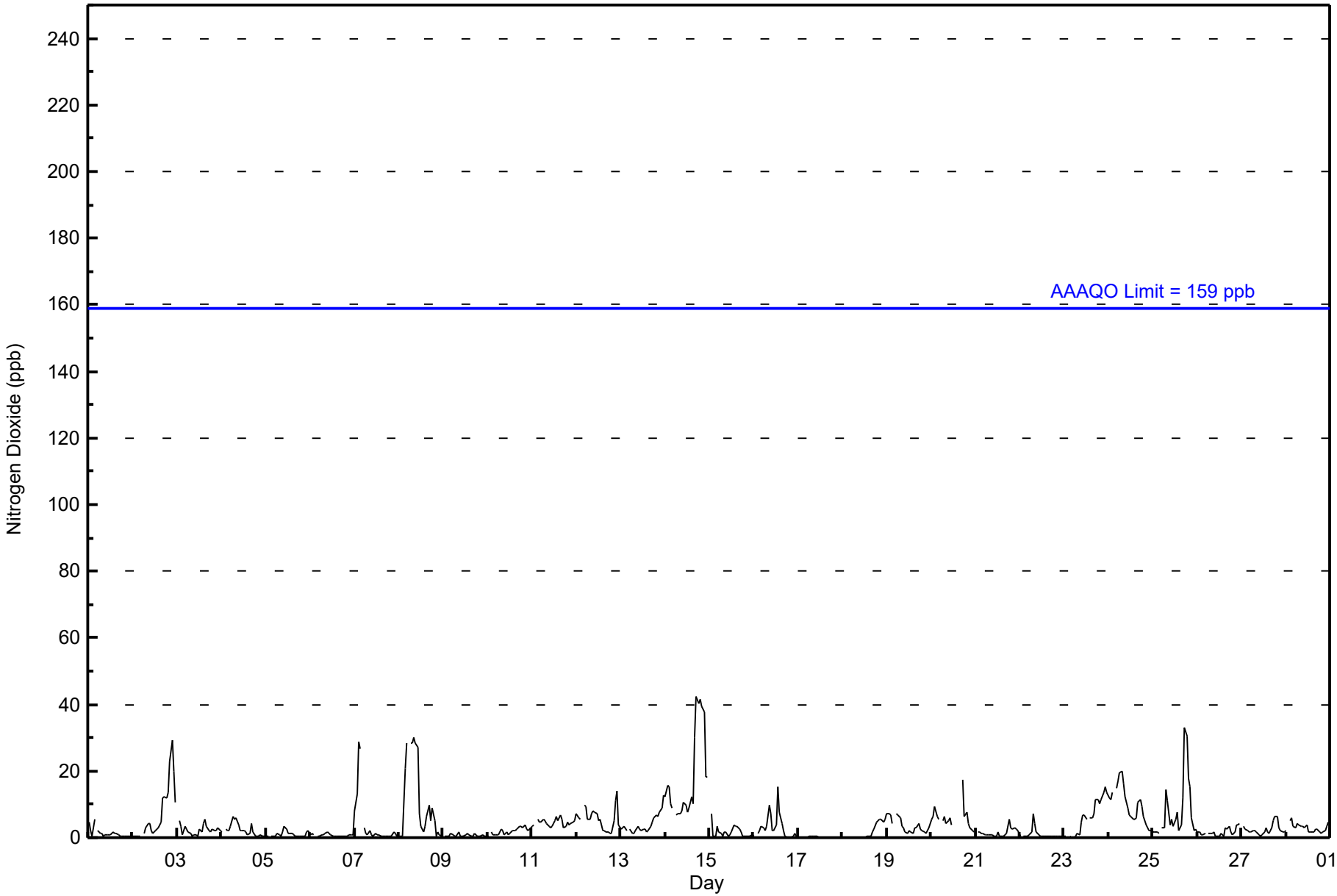
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Wapasu - February 2026



Nitrogen Dioxide (NO_2) - ppb
Wapasu - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	619	97.02	97.02
21 - 40	17	2.66	99.69
11 - 80	2	0.31	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Wapasu - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	56	117	66	19	7	4	30	90	103	45	32	24	5	6	5	10	619
21 - 40	7	5	0	0	0	0	0	1	0	1	0	0	0	1	0	2	17
11 - 80	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	63	123	66	20	7	4	30	91	103	46	32	24	5	7	5	12	638

Total Number of Valid Hours: 638

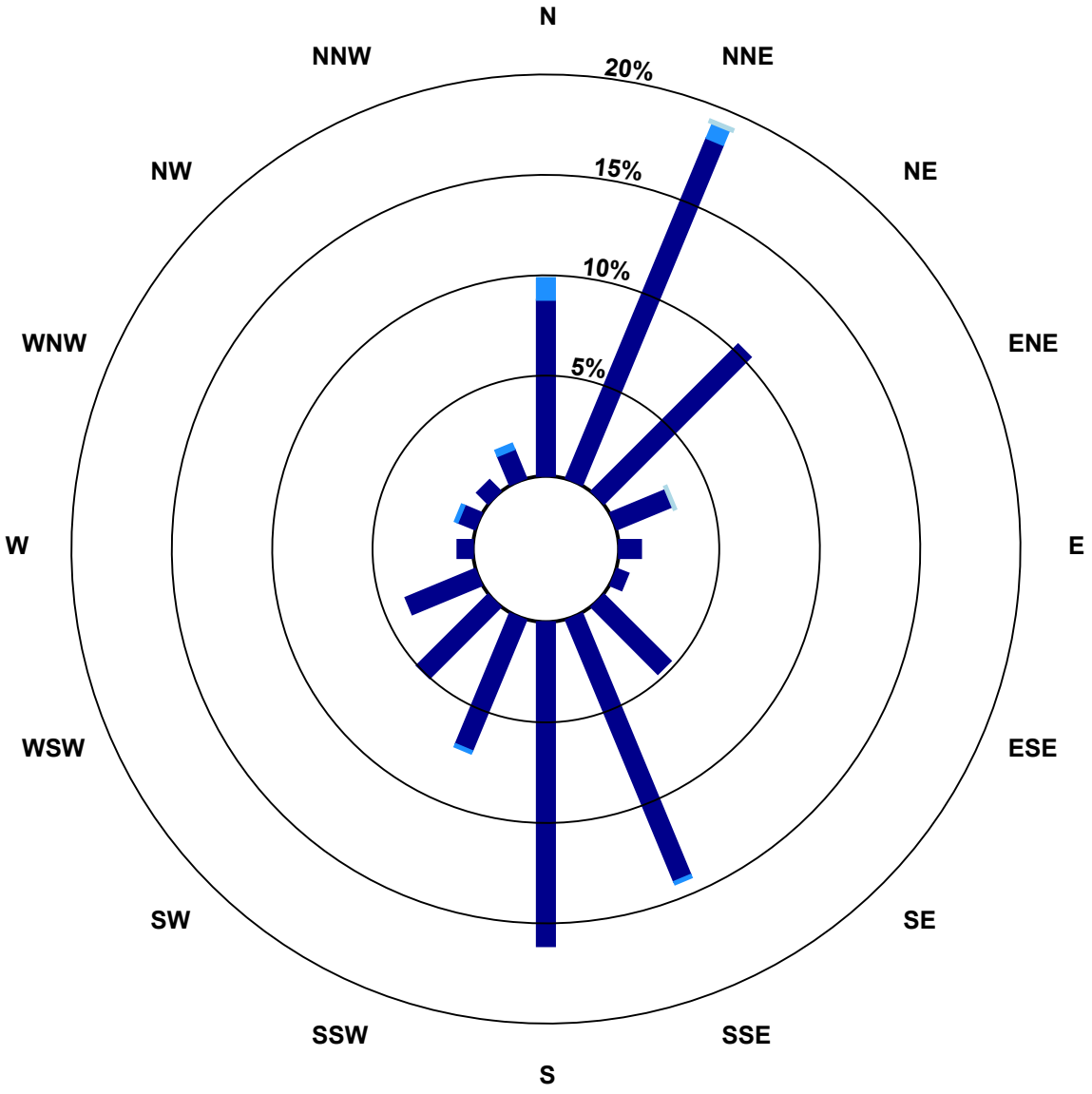
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Wapasu



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

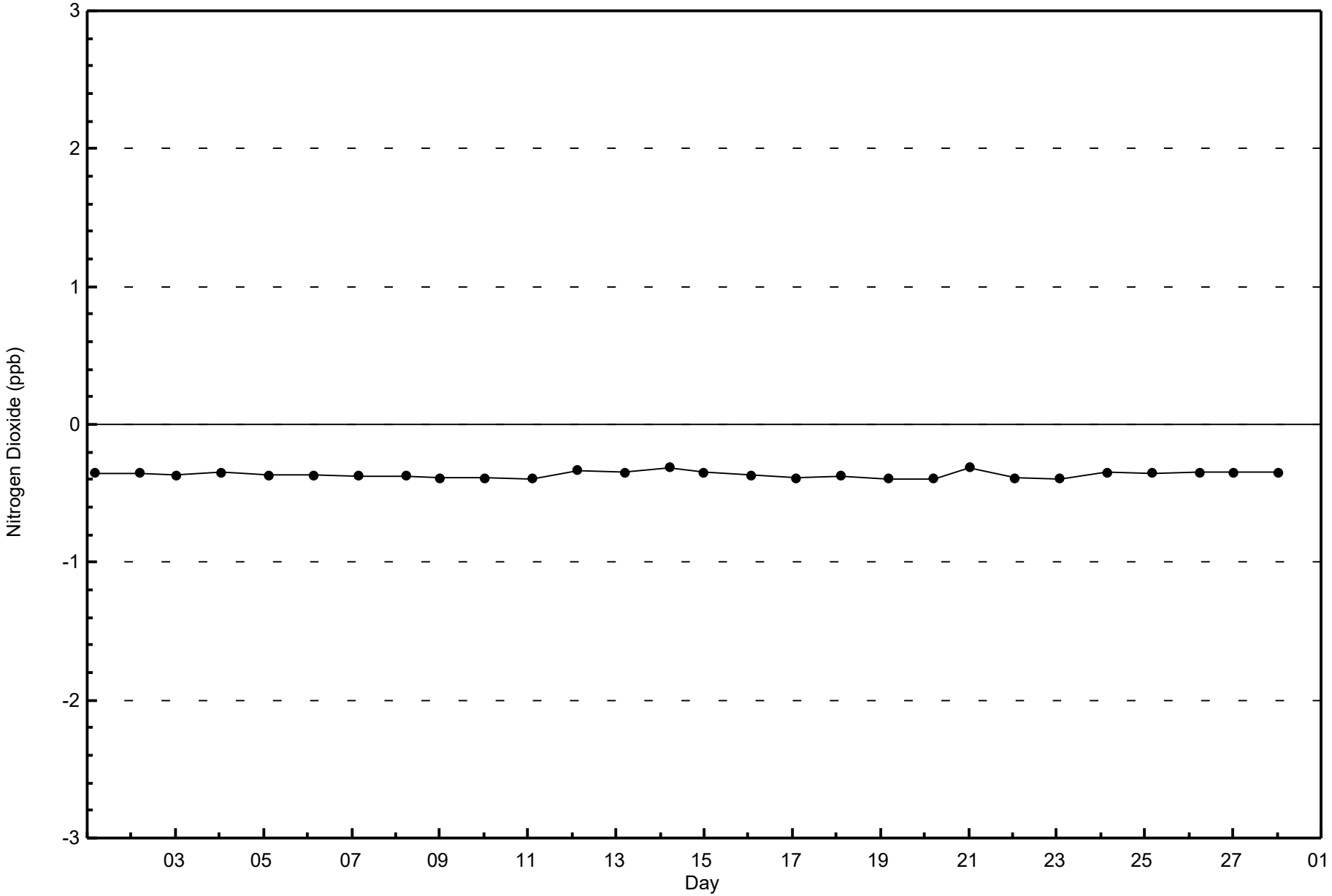
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Wapasu - February 2026

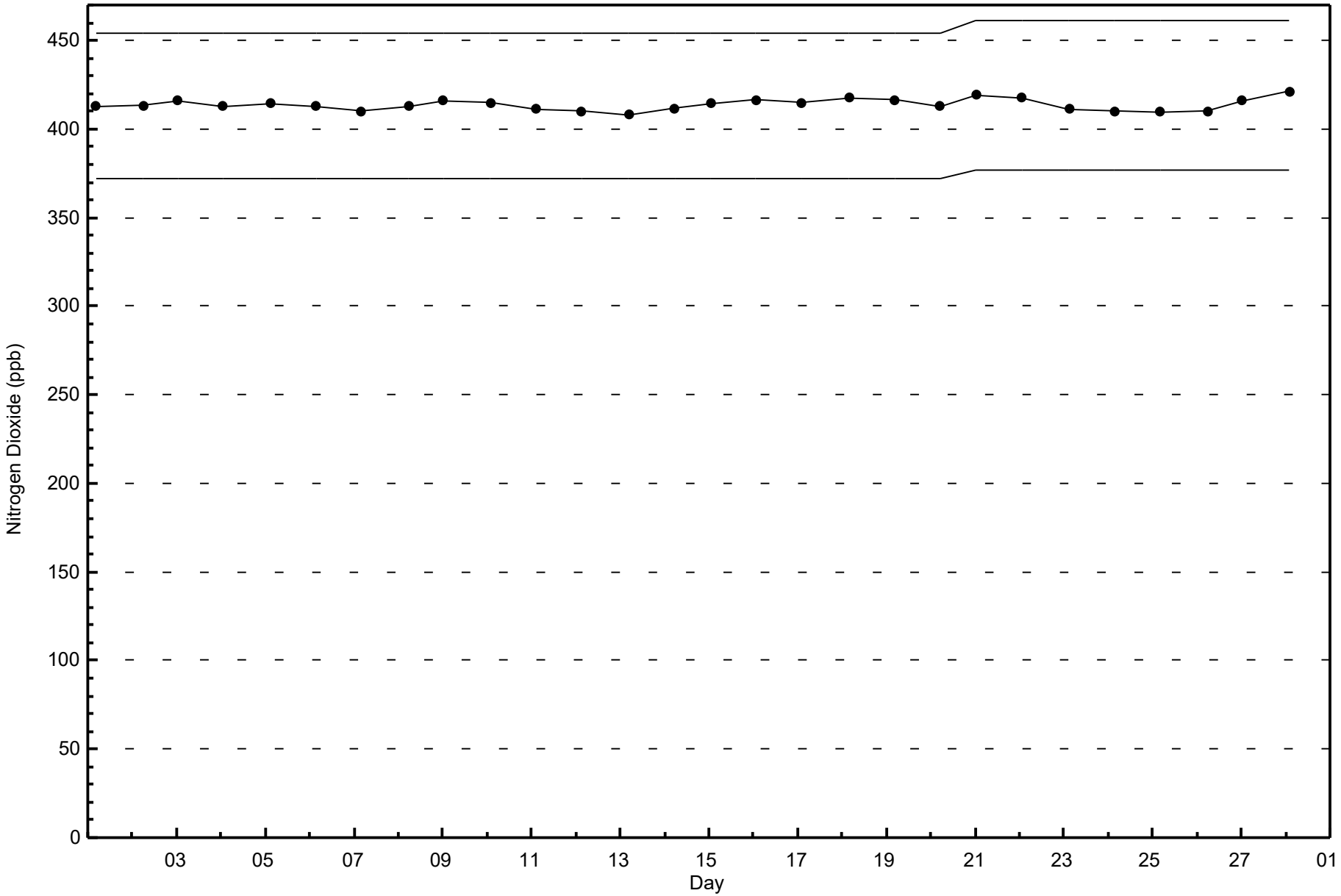


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Wapasu - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Wapasu - February 2026

Maximum Value: 79.0 ppb on Feb 14 20:00

Maximum Daily Average: 25.0 ppb on Feb 14

Minimum Value: 0.2 ppb on Feb 17 18:00

Minimum Daily Average: 0.2 ppb on Feb 17

Maximum Diurnal Average: 8.0 ppb at hour 18

Minimum Diurnal Average: 3.3 ppb at hour 6

Monthly Average: 5.24 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.3 Q_1 = 0.7 Median = 2.3 Q_3 = 5.6 P_{90} = 12.4 P_{99} = 47.0

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	4.6	2.1	0.4	5.5	Z	2.0	1.3	1.2	0.5	0.8	0.9	0.9	1.1	1.9	1.4	1.3	1.0	0.5	0.4	0.3	0.3	0.4	0.3	0.3	1.3	5.5
2-Feb	0.4	0.4	0.5	0.5	0.6	Z	1.4	3.1	4.2	4.7	2.4	1.7	2.8	3.2	3.3	5.2	12.9	12.4	12.0	13.5	33.3	43.3	22.5	10.8	8.5	43.3
3-Feb	Z	5.0	3.2	0.8	3.2	2.5	1.5	1.3	0.5	0.7	0.8	0.6	2.9	2.0	5.2	6.4	3.4	2.3	1.9	2.6	2.1	2.3	2.9	2.1	2.5	6.4
4-Feb	1.8	Z	2.4	2.3	2.3	3.3	6.7	5.7	6.0	4.5	3.0	2.7	2.6	1.9	1.1	1.5	4.6	1.6	0.6	0.5	0.5	0.9	0.3	0.3	2.5	6.7
5-Feb	0.4	0.3	Z	0.3	0.3	0.3	1.2	1.0	0.5	1.8	3.8	3.1	1.6	1.4	1.5	0.8	0.6	0.6	0.3	0.3	0.4	0.4	1.7	2.2	1.1	3.8
6-Feb	1.0	1.1	1.0	Z	0.5	0.6	0.8	0.7	1.2	1.6	1.2	0.9	0.7	0.7	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.9	1.0	0.8	1.6
7-Feb	8.3	14.2	53.5	46.7	Z	3.1	1.4	0.7	2.1	0.7	0.6	1.4	0.9	0.7	0.3	0.3	0.3	0.3	0.5	0.6	0.6	1.9	1.1	0.6	6.1	53.5
8-Feb	0.3	0.4	0.5	24.2	37.0	Z	36.3	36.7	42.7	44.9	43.6	9.7	3.8	2.1	3.9	7.0	10.5	5.1	9.1	5.2	0.6	1.6	0.8	0.4	14.2	44.9
9-Feb	Z	0.4	0.6	0.5	1.2	1.0	0.3	0.3	1.8	0.3	0.4	0.5	1.1	1.5	0.8	0.4	0.3	1.4	0.4	0.3	0.3	0.9	0.4	0.4	0.7	1.8
10-Feb	0.3	Z	1.8	1.0	0.7	0.8	1.0	2.5	2.1	1.1	2.3	1.3	1.6	2.9	3.0	2.5	2.8	3.2	3.3	2.8	3.7	2.6	2.0	2.9	2.1	3.7
11-Feb	3.4	3.9	Z	5.3	4.8	4.7	5.3	5.0	4.5	3.8	3.5	4.4	7.1	8.9	6.9	8.2	5.9	2.8	3.5	4.7	4.0	4.4	4.6	5.2	5.0	8.9
12-Feb	7.1	6.1	5.3	Z	9.8	9.3	5.5	5.6	7.9	9.7	10.5	10.2	7.3	7.9	2.4	2.3	1.6	1.7	1.3	1.2	5.0	11.3	14.3	3.9	6.4	14.3
13-Feb	2.7	3.0	3.3	2.1	Z	2.5	1.4	1.2	2.2	4.2	3.2	2.6	3.4	3.6	2.1	2.4	3.8	4.8	6.1	6.8	6.2	7.8	9.0	12.7	4.2	12.7
14-Feb	12.4	15.6	15.1	10.1	9.1	Z	6.9	7.4	7.7	10.1	14.9	14.8	11.6	13.4	17.6	12.6	50.1	76.6	45.2	79.0	58.9	47.2	21.2	18.5	25.0	79.0
15-Feb	Z	7.8	0.4	0.6	3.5	1.9	1.3	0.4	1.6	1.9	0.5	1.0	3.3	8.0	5.3	4.9	3.1	1.8	0.6	0.3	0.5	0.3	0.6	0.7	2.2	8.0
16-Feb	0.5	Z	1.4	2.2	3.3	2.8	2.1	3.4	14.6	12.4	4.2	4.8	11.0	49.0	18.8	7.8	3.1	0.5	0.2	0.2	0.2	0.3	1.1	0.4	6.3	49.0
17-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
18-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.9	1.1	2.6	3.1	11.4	10.9	11.3	13.4	12.1	15.9	3.7	15.9
19-Feb	27.3	24.6	18.4	7.7	Z	14.2	10.4	8.1	6.9	7.8	5.1	2.9	5.2	3.9	2.1	4.4	3.6	4.6	2.5	2.2	1.5	1.2	2.1	2.8	7.4	27.3
20-Feb	5.4	6.3	9.3	6.2	5.4	Z	5.1	6.5	4.5	6.4	9.0	5.9	C	C	C	C	C	19.4	6.3	7.7	4.3	2.9	2.3	1.8	6.4	19.4
21-Feb	Z	1.5	1.9	1.4	1.1	1.0	0.8	0.8	0.9	0.8	0.4	0.7	2.2	0.7	0.8	0.8	1.4	1.7	6.1	3.3	3.5	4.0	3.6	2.6	1.8	6.1
22-Feb	0.4	Z	0.3	0.5	0.5	0.8	1.9	9.8	5.6	2.2	1.2	0.8	0.7	0.6	0.6	0.5	0.5	0.6	0.5	0.4	0.5	0.6	0.6	0.5	1.3	9.8
23-Feb	0.3	0.6	Z	0.3	0.2	0.2	0.3	1.1	0.8	6.9	10.6	11.8	11.1	M	8.4	8.5	9.2	12.1	11.5	10.3	11.5	13.4	15.1	13.4	7.2	15.1
24-Feb	12.0	11.5	13.6	Z	15.1	17.1	19.8	20.7	20.8	19.3	16.2	13.2	11.7	9.4	8.2	8.9	14.1	12.4	9.2	6.4	3.9	2.9	2.3	2.3	11.8	20.8
25-Feb	1.8	1.9	1.5	1.4	Z	2.9	3.1	15.1	13.7	5.2	18.1	4.8	8.3	10.4	2.7	4.5	13.9	40.5	34.1	17.7	15.3	5.9	2.0	2.4	9.9	40.5
26-Feb	1.9	1.5	1.0	1.0	1.3	Z	1.3	1.1	1.2	1.6	0.6	0.6	0.6	1.3	0.5	3.7	2.8	3.7	1.8	0.8	1.6	3.9	3.9	4.4	1.8	4.4
27-Feb	Z	3.4	2.7	2.1	1.8	1.8	2.0	2.1	1.9	1.4	0.8	1.7	4.5	7.8	3.5	2.8	5.2	6.4	6.4	6.4	2.9	2.3	1.9	1.7	3.2	7.8
28-Feb	2.1	Z	5.1	5.8	3.3	3.1	4.5	4.2	4.6	5.2	4.7	6.6	3.0	2.8	2.4	2.1	2.9	2.8	1.9	1.4	1.6	2.1	3.4	4.5	3.5	6.6
	4.1	4.9	6.0	5.4	4.6	3.3	4.4	5.2	5.8	5.7	5.8	3.9	4.1	5.6	3.9	3.8	6.0	8.0	6.4	6.7	6.3	6.4	4.8	4.1	Diurnal Average	
	27.3	24.6	53.5	46.7	37.0	17.1	36.3	36.7	42.7	44.9	43.6	14.8	11.7	49.0	18.8	12.6	50.1	76.6	45.2	79.0	58.9	47.2	22.5	18.5	Diurnal Maximum	

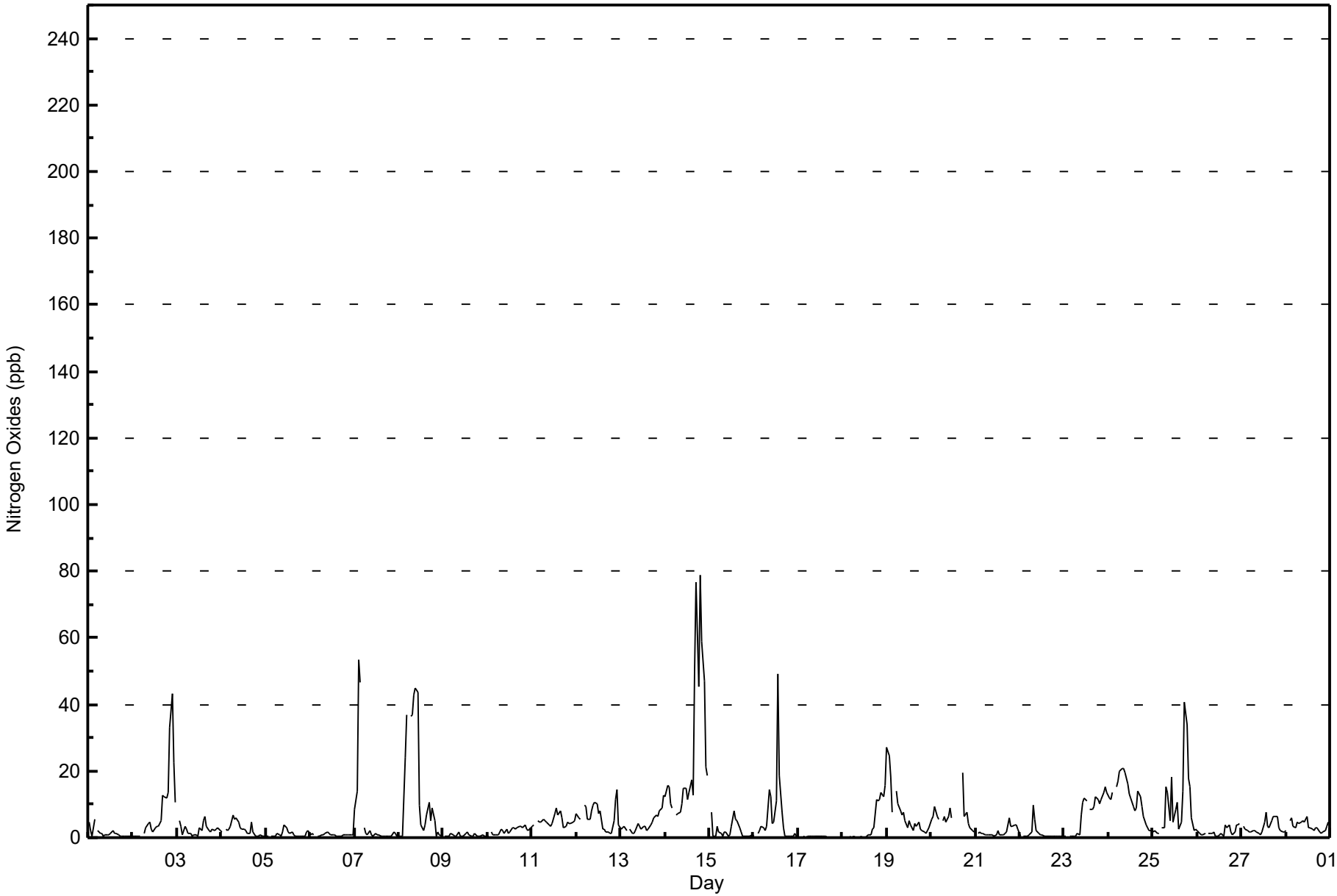
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Wapasu - February 2026



Nitrogen Oxides (NO_X) - ppb
Wapasu - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	612	95.92	95.92
21 - 40	12	1.88	97.81
11 - 80	14	2.19	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Wapasu - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	55	117	66	19	7	4	30	86	103	45	32	24	5	6	5	8	612
21 - 40	2	3	0	0	0	0	0	4	0	0	0	0	0	0	0	3	12
11 - 80	6	3	0	1	0	0	0	1	0	1	0	0	0	1	0	1	14
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	63	123	66	20	7	4	30	91	103	46	32	24	5	7	5	12	638

Total Number of Valid Hours: 638

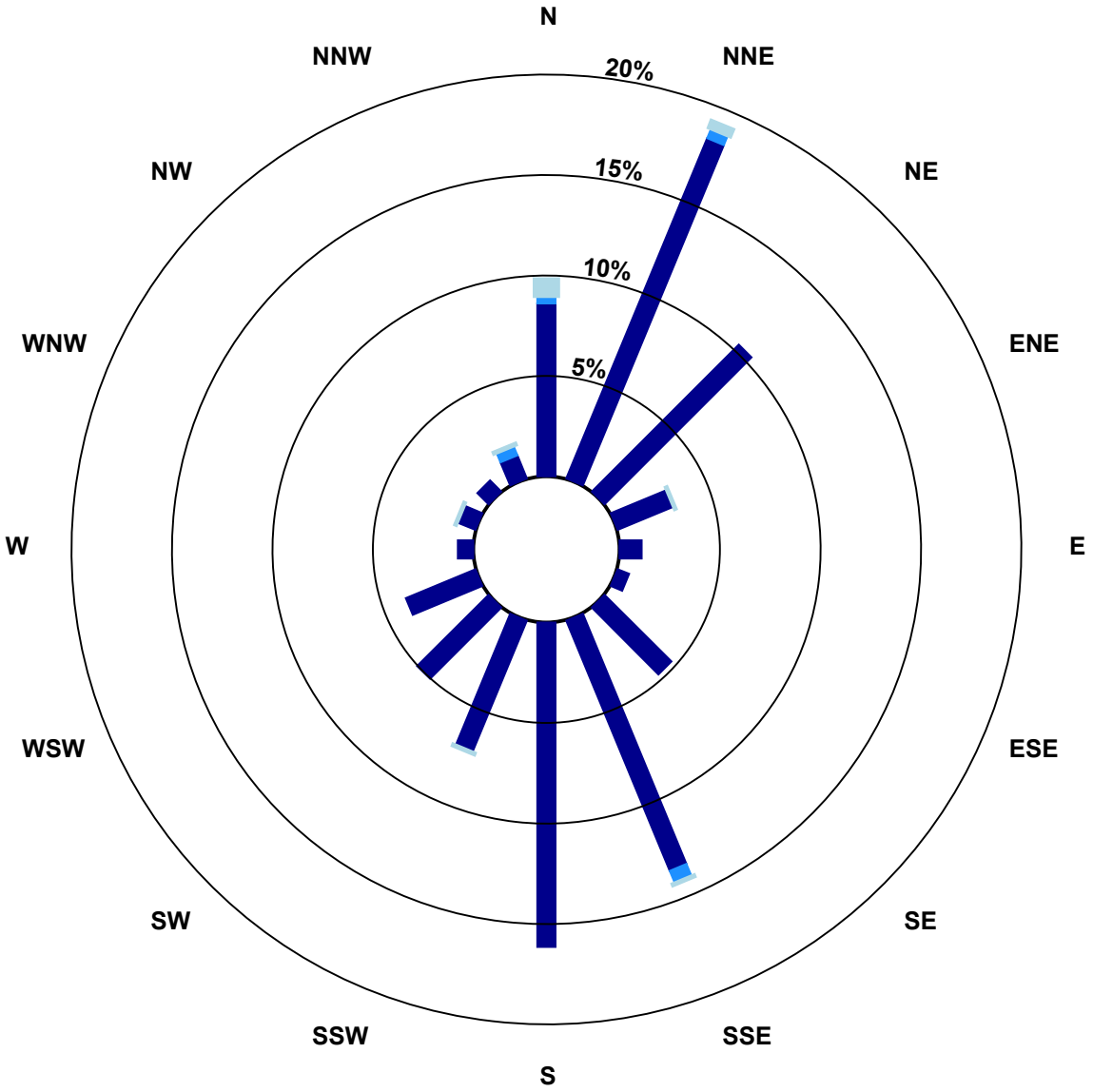
Total Number of Hours: 672

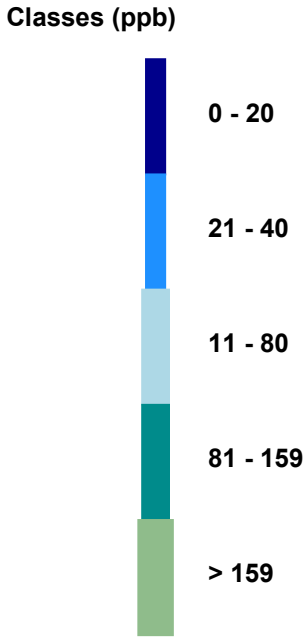
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Wapasu





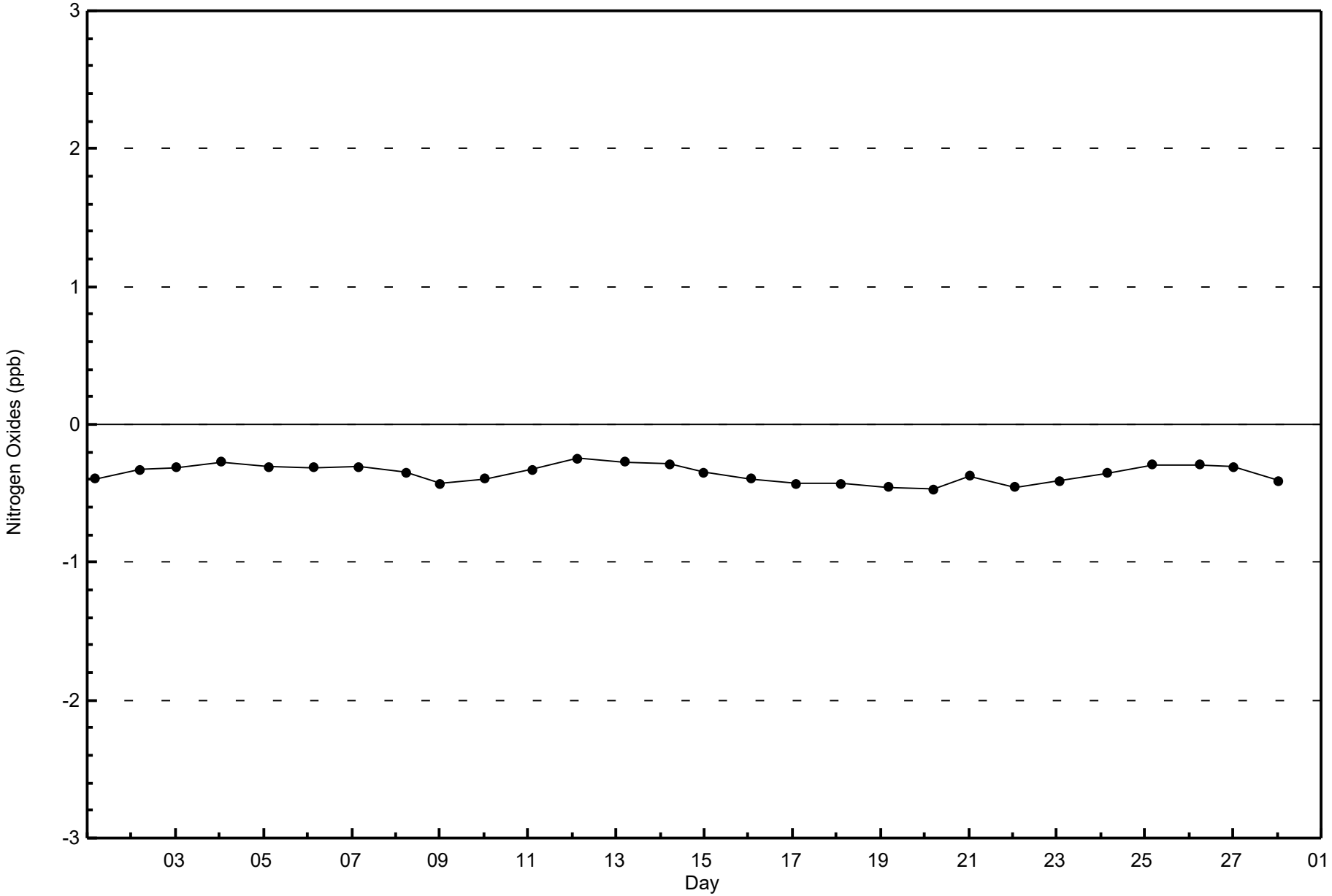
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Wapasu - February 2026

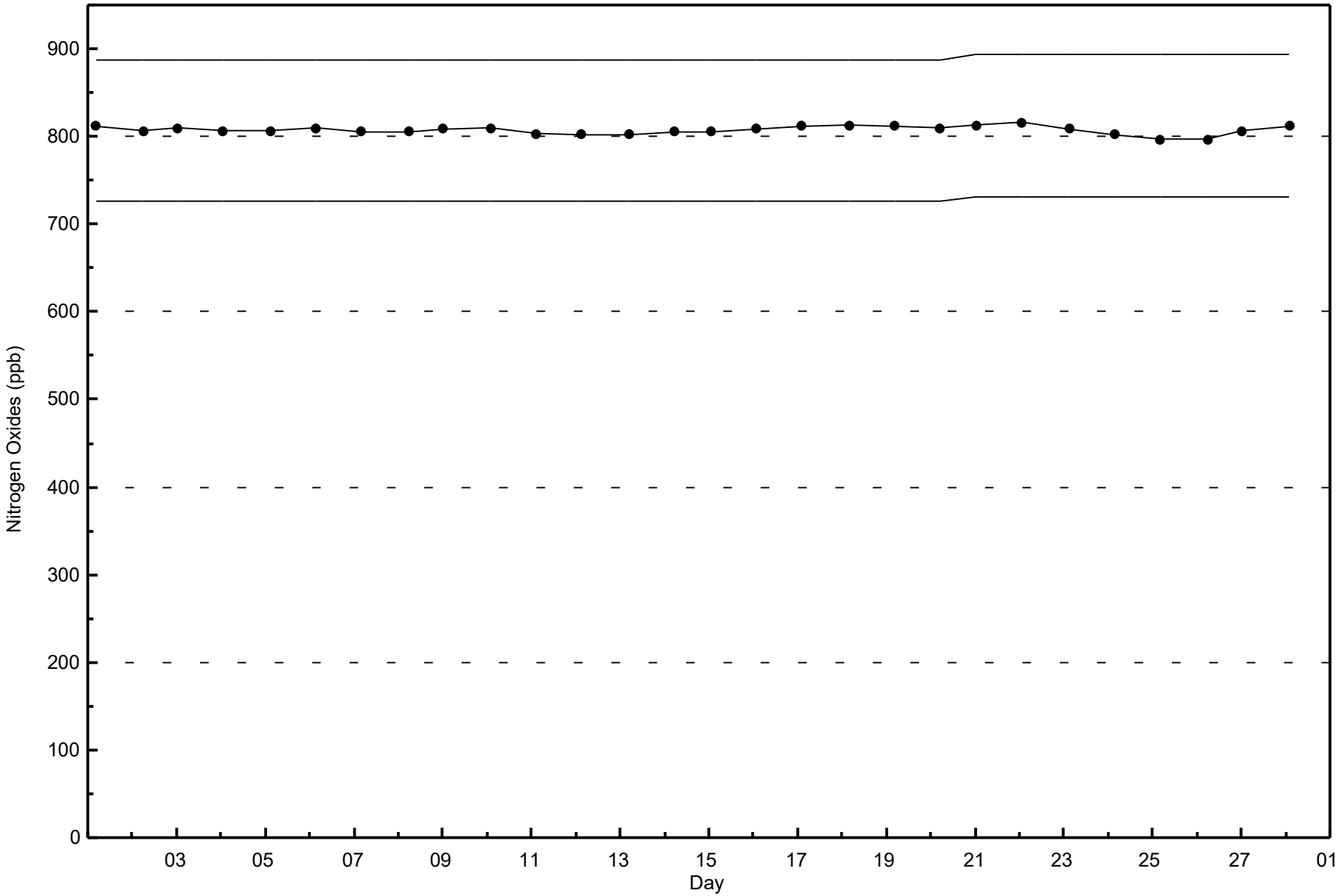


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Wapasu - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Wapasu - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 12.9 $\mu g/m^3$ on Feb 16 14:00

Maximum Daily Average: 4.6 $\mu g/m^3$ on Feb 14

Minimum Value: 0.4 $\mu g/m^3$ on Feb 12 20:00

Minimum Daily Average: 1.4 $\mu g/m^3$ on Feb 12

Maximum Diurnal Average: 2.9 $\mu g/m^3$ at hour 18

Minimum Diurnal Average: 2.4 $\mu g/m^3$ at hour 2

Monthly Average: 2.71 $\mu g/m^3$

Percentiles: P_1 = 0.8 P_{10} = 1.5 Q_1 = 1.8 Median = 2.4 Q_3 = 3.3 P_{90} = 4.3 P_{99} = 6.6

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Hours of Calibration:	2
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.9	2.3	2.1	2.6	2.8	2.5	2.2	1.9	1.5	2.2	2.2	1.9	1.6	1.7	1.8	1.9	1.8	1.8	1.7	1.8	1.9	1.9	2.0	1.9	2.0	2.8
2-Feb	1.8	2.0	2.0	2.0	2.1	2.1	2.4	2.6	2.7	2.9	3.0	3.3	3.6	3.8	4.0	4.5	5.2	5.3	5.4	5.5	6.2	6.2	6.4	5.8	3.8	6.4
3-Feb	6.2	5.3	3.9	3.8	3.8	3.6	3.1	2.9	2.6	2.6	2.8	2.7	2.8	3.4	5.8	6.3	5.7	5.3	5.4	5.8	6.5	6.4	6.9	5.6	4.5	6.9
4-Feb	4.2	4.0	3.9	4.6	5.1	5.1	4.8	4.4	3.9	3.2	2.8	2.4	2.0	1.6	1.4	1.2	1.6	2.9	3.3	3.2	2.8	2.9	2.7	2.7	3.2	5.1
5-Feb	2.8	2.7	2.3	1.8	1.7	1.7	2.3	1.9	1.9	1.6	1.7	1.7	1.7	1.6	1.8	1.6	1.7	1.6	1.7	1.8	2.0	2.2	2.8	2.7	2.0	2.8
6-Feb	2.4	2.4	2.4	2.3	2.2	2.2	2.5	2.8	3.2	3.6	3.1	2.6	2.3	2.4	2.6	2.8	2.8	2.8	2.7	2.8	2.9	2.9	2.9	2.9	2.7	3.6
7-Feb	3.0	3.1	4.4	5.3	4.6	3.2	2.9	2.8	3.2	3.7	3.6	3.5	3.5	3.2	2.9	2.9	2.9	2.8	2.9	3.3	3.3	3.4	3.5	3.3	3.4	5.3
8-Feb	2.8	2.9	2.9	3.3	3.6	3.7	3.8	3.8	3.9	3.9	3.8	3.2	2.9	2.8	2.7	2.9	3.4	3.6	3.6	3.7	4.2	4.4	4.0	3.6	3.5	4.4
9-Feb	3.3	3.2	3.7	3.8	3.4	3.4	3.2	3.6	4.0	3.9	4.4	4.0	3.7	3.2	2.8	2.4	2.0	2.2	2.2	2.0	1.9	1.9	1.8	1.8	3.0	4.4
10-Feb	1.7	2.3	3.1	3.2	3.3	4.1	3.5	3.1	3.0	2.9	2.8	2.8	3.1	3.6	3.8	3.7	3.8	4.1	4.4	4.5	4.6	4.5	4.5	4.3	3.5	4.6
11-Feb	4.2	4.4	4.9	4.8	4.8	5.1	5.4	5.3	4.3	3.7	3.9	3.2	2.7	2.2	1.8	1.6	1.4	1.4	1.3	1.2	1.0	0.8	0.8	0.8	3.0	5.4
12-Feb	0.9	1.0	1.5	2.1	2.4	2.3	2.5	2.6	2.6	2.1	1.7	1.5	1.1	0.9	0.7	0.9	0.8	0.9	0.6	0.4	0.7	1.3	1.7	1.7	1.4	2.6
13-Feb	1.2	1.2	1.5	1.5	1.8	2.0	2.0	2.1	2.2	2.6	2.4	2.4	2.5	2.5	2.1	1.9	2.1	2.3	2.8	2.7	2.4	2.1	2.3	2.7	2.1	2.8
14-Feb	2.6	2.7	2.7	2.7	2.9	3.4	3.4	3.3	3.0	3.6	3.8	3.7	3.7	3.9	4.3	3.9	8.3	10.8	6.2	10.0	7.5	5.7	4.5	4.3	4.6	10.8
15-Feb	5.3	3.8	2.9	2.8	3.0	2.9	2.7	2.3	1.8	2.0	1.9	2.0	2.1	2.6	3.3	3.4	2.5	1.8	1.2	1.1	1.0	1.2	1.1	0.9	2.3	5.3
16-Feb	1.0	1.1	1.1	1.0	1.0	1.0	1.1	1.1	2.0	2.0	2.0	2.3	3.0	12.9	8.6	5.6	3.0	2.1	2.0	1.9	1.8	1.8	1.8	1.8	2.6	12.9
17-Feb	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.7	2.0	1.9	1.9	1.9	1.8	2.2	2.1	1.7	1.8	1.9	1.7	2.2
18-Feb	2.0	2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.6	1.7	1.6	1.7	1.6	1.6	1.9	1.8	2.1	1.7	2.1	2.9	2.8	3.8	2.6	2.2	2.0	3.8
19-Feb	2.6	2.3	1.9	1.6	2.5	2.4	2.5	2.7	2.5	2.1	2.5	2.9	2.9	2.9	2.0	2.4	1.6	1.4	1.3	1.3	1.5	1.6	1.6	1.5	2.1	2.9
20-Feb	1.6	1.7	1.8	2.1	2.2	2.3	2.4	2.5	2.5	2.7	3.4	2.4	2.5	3.0	3.4	4.0	4.2	3.7	1.9	2.2	2.2	2.0	1.9	1.8	2.5	4.2
21-Feb	1.8	1.8	1.9	1.8	2.0	1.8	1.5	1.4	1.4	1.6	2.3	2.3	2.3	2.2	2.3	2.2	2.2	2.2	2.5	2.4	2.4	2.5	2.3	2.4	2.1	2.5
22-Feb	2.0	1.9	2.1	2.1	2.1	2.3	2.3	2.2	2.0	1.6	1.5	1.4	1.3	1.4	1.4	1.6	1.4	1.3	1.4	1.5	1.5	1.5	1.4	1.5	1.7	2.3
23-Feb	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.6	1.8	3.0	2.9	2.8	2.7	C	C	2.6	2.8	2.7	2.5	2.2	2.2	2.2	2.2	2.1	3.0
24-Feb	2.6	2.8	3.1	3.0	3.2	4.2	4.5	5.5	5.5	5.0	4.3	3.9	3.4	3.3	3.5	3.9	4.5	3.9	3.6	3.1	3.0	2.9	2.8	2.9	3.7	5.5
25-Feb	2.9	2.6	2.2	2.2	2.9	4.6	5.5	4.7	4.6	4.6	3.8	3.3	3.1	2.9	2.9	3.1	3.7	4.5	DF	4.0	3.9	3.4	2.8	2.7	3.5	5.5
26-Feb	2.6	2.6	2.9	3.3	3.2	3.1	3.1	3.2	3.6	3.3	2.4	2.1	2.2	2.3	1.9	2.2	2.0	2.0	2.4	2.2	1.8	1.9	2.0	2.0	2.5	3.6
27-Feb	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.7	2.3	2.4	2.0	2.2	2.3	2.7	2.2	2.1	2.3	2.6	2.7	2.6	2.0	1.6	1.2	1.1	2.1	2.7
28-Feb	1.0	0.9	1.0	1.7	1.8	1.6	1.6	1.9	2.2	2.0	2.2	2.3	2.2	2.5	2.5	2.5	2.5	2.4	2.2	2.5	2.8	3.3	3.7	4.8	2.2	4.8
	2.5	2.4	2.5	2.6	2.7	2.8	2.8	2.8	2.8	2.7	2.7	2.6	2.5	2.9	2.8	2.8	2.9	2.9	2.7	2.9	2.8	2.8	2.7	2.6	Diurnal Average	
	6.2	5.3	4.9	5.3	5.1	5.1	5.5	5.5	5.5	5.0	4.4	4.0	3.7	12.9	8.6	6.3	8.3	10.8	6.2	10.0	7.5	6.4	6.9	5.8	Diurnal Maximum	

C - Calibration DF - DAS Failure

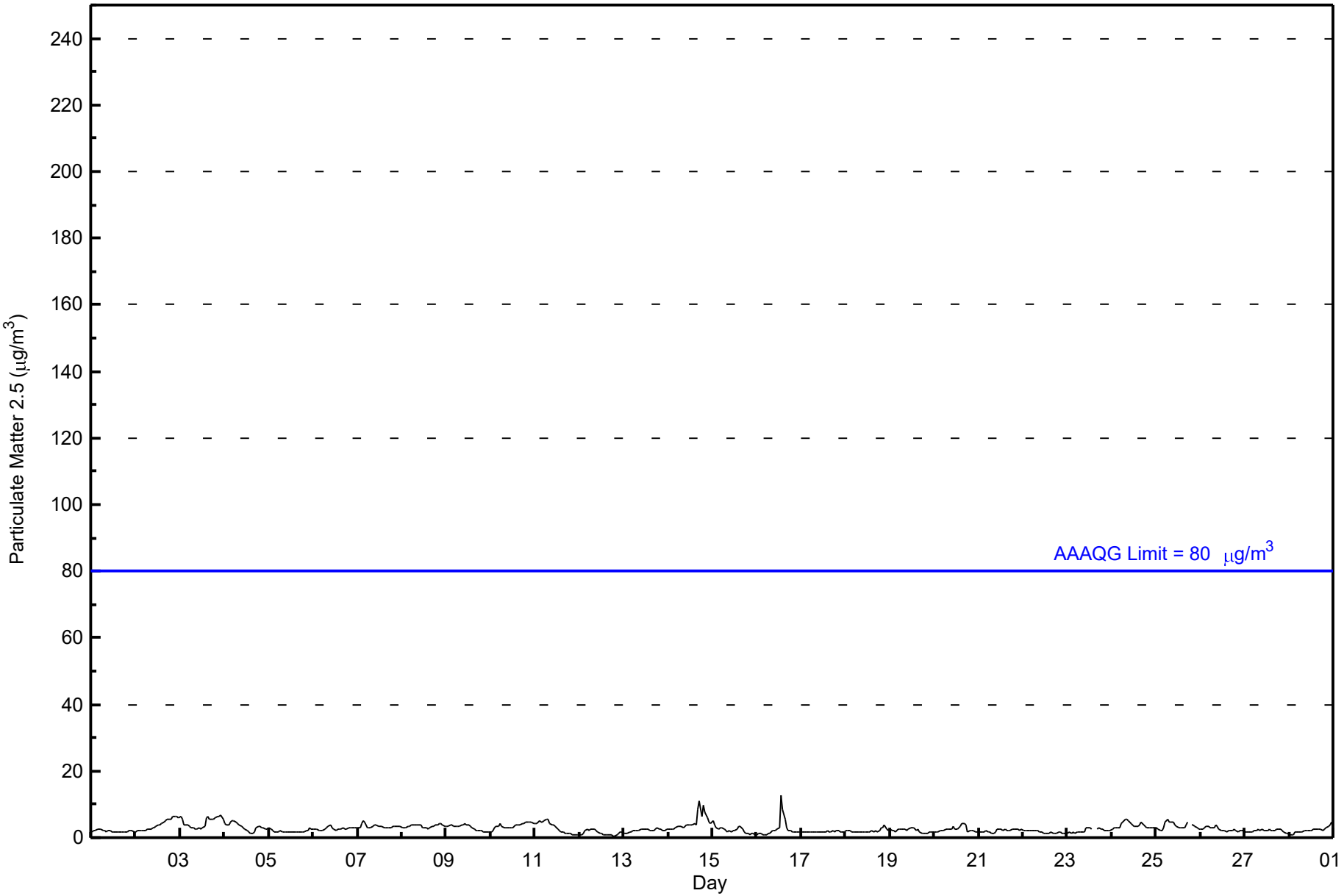
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Wapasu - February 2026



Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Wapasu - February 2026

Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	646	96.56	96.56
6 - 15	23	3.44	100.00
16 - 25	0	0.00	100.00
26 - 80	0	0.00	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 669

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Wapasu - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	64	124	69	21	8	5	30	97	102	43	33	24	5	6	5	10	646
6 - 15	7	1	0	1	0	0	0	3	4	4	0	0	0	1	0	2	23
16 - 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	71	125	69	22	8	5	30	100	106	47	33	24	5	7	5	12	669

Total Number of Valid Hours: 669

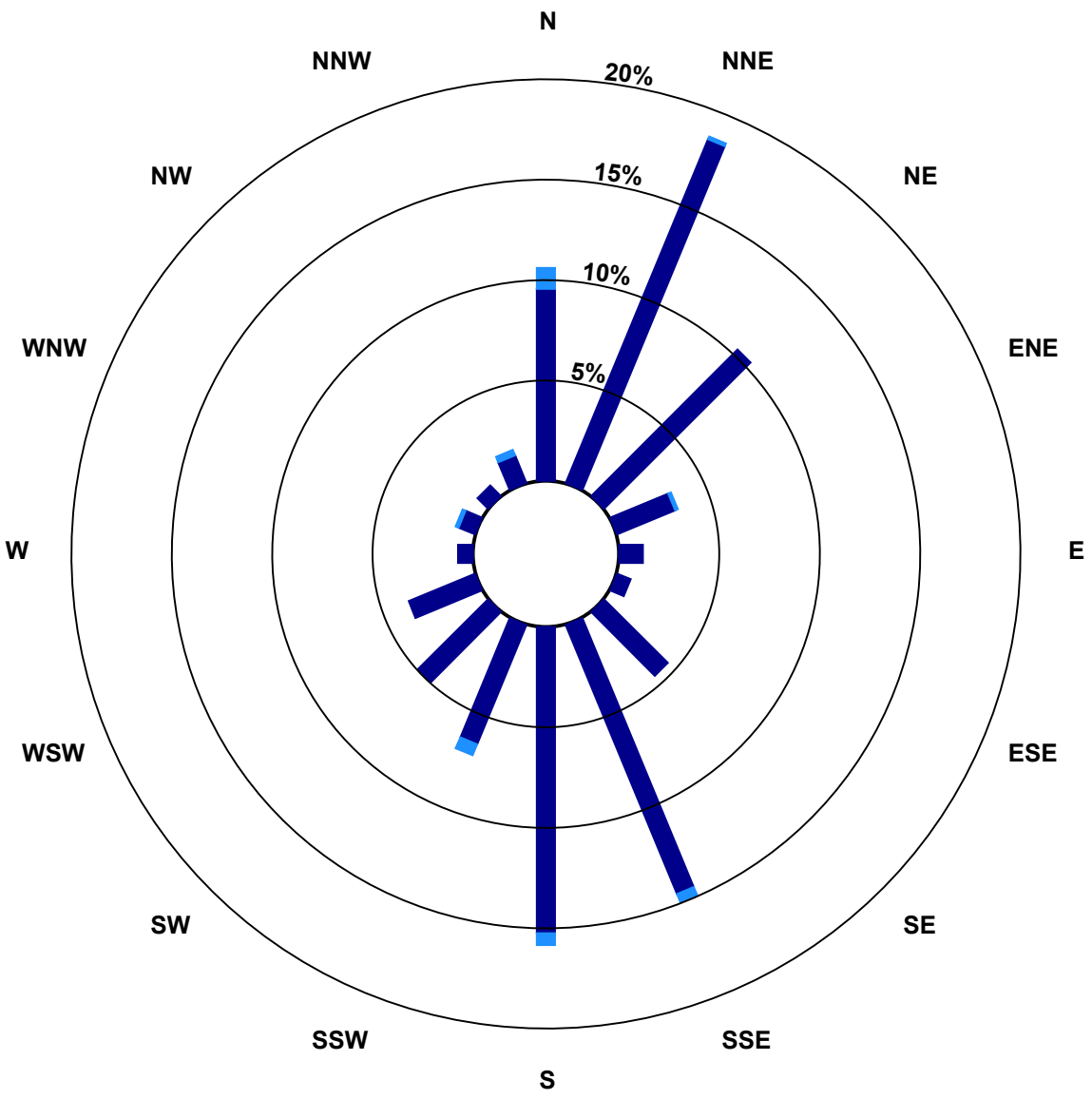
Total Number of Hours: 672

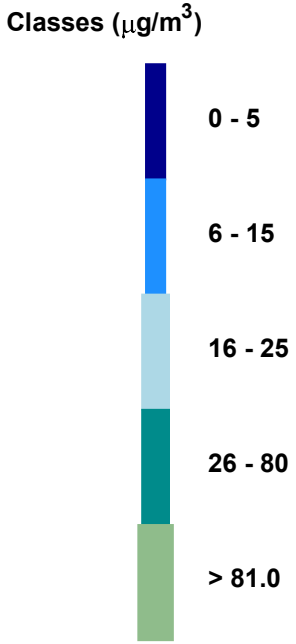
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Wapasu





Total Number of Valid Hours: 669

Maximum Value: 8.2 C on Feb 4 16:00

Maximum Daily Average: 0.6 C on Feb 4

Minimum Value: -40.1 C on Feb 28 02:00

Minimum Daily Average: -32.4 C on Feb 18

Maximum Diurnal Average: -12.2 C at hour 16

Minimum Diurnal Average: -17.7 C at hour 2

Monthly Average: -15.70 C

Percentiles: P_1 = -38.3 P_{10} = -30.2 Q_1 = -23.3 Median = -15.3 Q_3 = -8.5 P_{90} = -1.7 P_{99} = 4.0

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

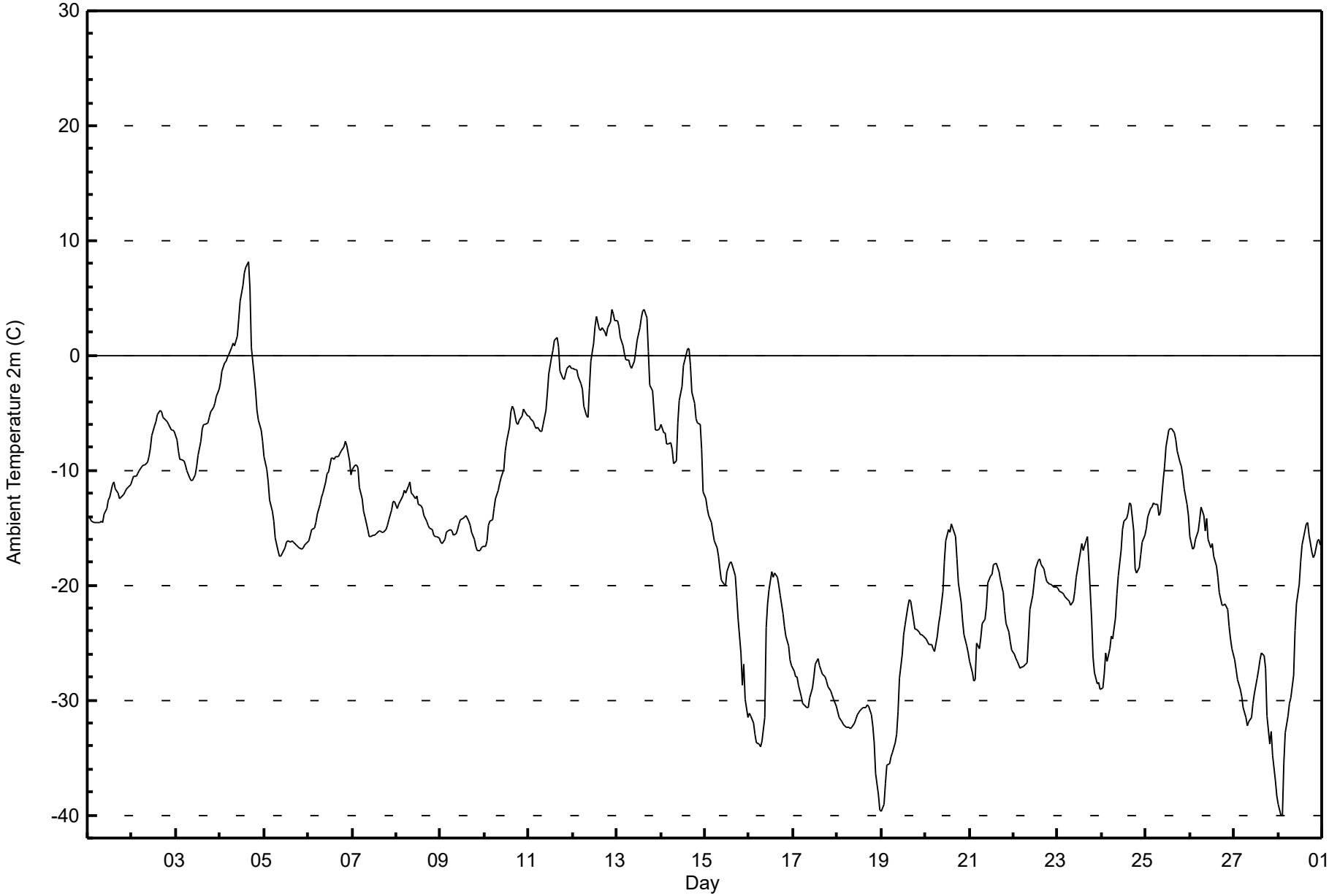
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-14.0	-14.1	-14.5	-14.6	-14.6	-14.6	-14.6	-14.4	-14.5	-13.8	-13.3	-12.6	-12.4	-11.3	-11.0	-11.6	-11.9	-12.5	-12.3	-12.1	-11.9	-11.6	-11.5	-11.2	-13.0	-11.0
2-Feb	-10.9	-10.6	-10.5	-10.3	-10.0	-9.7	-9.5	-9.5	-9.3	-8.8	-8.1	-7.0	-6.1	-5.8	-5.2	-4.8	-4.9	-5.4	-5.6	-5.8	-6.0	-6.5	-6.5	-6.6	-7.6	-4.8
3-Feb	-7.4	-8.3	-9.0	-9.1	-9.1	-9.5	-10.1	-10.6	-10.9	-10.9	-10.3	-9.6	-8.7	-7.5	-6.4	-6.0	-6.0	-5.9	-5.4	-4.9	-4.5	-4.1	-3.6	-2.9	-7.5	-2.9
4-Feb	-2.3	-1.4	-0.6	-0.5	-0.1	0.1	0.7	1.1	0.8	1.7	3.2	4.7	6.1	7.2	7.7	8.2	5.9	0.7	-1.8	-3.1	-4.7	-5.7	-6.5	-7.4	0.6	8.2
5-Feb	-8.9	-9.9	-11.0	-12.6	-13.5	-14.4	-15.9	-17.0	-17.4	-17.4	-17.3	-16.8	-16.3	-16.2	-16.2	-16.1	-16.3	-16.5	-16.6	-16.7	-16.9	-16.7	-16.5	-16.3	-15.4	-8.9
6-Feb	-16.1	-15.6	-15.2	-15.0	-14.6	-13.8	-12.9	-12.4	-11.9	-11.0	-10.3	-10.2	-8.9	-8.9	-9.0	-8.8	-8.7	-8.6	-8.3	-8.0	-7.5	-7.9	-9.1	-10.4	-11.0	-7.5
7-Feb	-9.9	-9.6	-9.5	-9.8	-11.5	-12.5	-13.5	-14.0	-15.1	-15.7	-15.8	-15.7	-15.6	-15.5	-15.3	-15.2	-15.3	-15.4	-15.1	-14.8	-14.3	-13.5	-12.7	-12.7	-13.7	-9.5
8-Feb	-13.3	-12.9	-12.7	-12.2	-11.8	-12.0	-11.4	-11.0	-12.0	-12.1	-12.5	-12.3	-13.0	-13.1	-13.4	-13.9	-14.4	-14.8	-15.0	-15.2	-15.6	-15.7	-15.7	-15.8	-13.4	-11.0
9-Feb	-16.3	-16.3	-16.0	-15.4	-15.3	-15.1	-15.3	-15.6	-15.5	-15.2	-14.6	-14.3	-14.2	-14.1	-13.9	-14.4	-14.8	-15.4	-16.0	-16.6	-16.9	-17.0	-16.7	-16.6	-15.5	-13.9
10-Feb	-16.7	-16.1	-14.7	-14.4	-14.3	-13.3	-12.5	-11.8	-11.2	-10.7	-9.9	-8.3	-7.4	-6.3	-4.9	-4.5	-4.7	-5.9	-6.0	-5.6	-5.3	-4.6	-4.9	-5.3	-9.1	-4.5
11-Feb	-5.3	-5.5	-5.7	-6.1	-6.4	-6.3	-6.6	-6.6	-6.1	-4.8	-3.4	-1.6	-0.2	0.4	1.4	1.6	0.7	-1.3	-1.9	-2.1	-1.6	-1.2	-0.9	-1.2	-2.9	1.6
12-Feb	-1.1	-1.2	-1.3	-1.8	-2.4	-2.9	-4.4	-5.3	-5.3	-2.8	-0.6	1.1	2.6	3.4	2.3	2.2	2.4	2.1	1.7	2.4	2.9	4.0	3.7	3.0	0.2	4.0
13-Feb	3.0	2.5	1.6	0.8	0.1	-0.4	-0.4	-0.9	-1.1	-0.5	0.4	1.4	2.5	3.2	3.8	4.0	3.2	0.3	-2.6	-3.1	-4.8	-6.5	-6.4	-6.3	-0.3	4.0
14-Feb	-5.9	-6.8	-6.7	-7.7	-7.7	-7.6	-8.2	-9.4	-9.1	-5.8	-4.0	-2.7	-0.9	-0.3	0.6	0.6	-0.9	-3.2	-4.1	-5.5	-5.9	-6.0	-8.2	-11.8	-5.3	0.6
15-Feb	-12.5	-13.3	-13.9	-14.5	-15.4	-16.1	-16.8	-17.4	-18.6	-19.5	-19.9	-20.0	-18.8	-18.1	-18.0	-18.3	-19.1	-21.1	-22.9	-25.8	-28.7	-26.9	-29.9	-31.5	-19.9	-12.5
16-Feb	-31.1	-31.4	-32.0	-33.0	-33.7	-33.9	-34.1	-33.6	-31.5	-23.8	-21.6	-20.4	-18.8	-19.3	-18.9	-19.3	-20.0	-20.9	-22.5	-23.5	-24.4	-25.2	-26.5	-27.0	-26.1	-18.8
17-Feb	-27.5	-28.0	-28.0	-28.7	-29.6	-30.3	-30.4	-30.7	-30.6	-29.8	-29.0	-28.0	-26.9	-26.4	-26.9	-27.4	-27.7	-28.0	-28.3	-28.8	-29.2	-29.5	-30.0	-30.5	-28.8	-26.4
18-Feb	-31.0	-31.5	-31.8	-32.1	-32.2	-32.3	-32.4	-32.4	-32.3	-31.9	-31.6	-31.3	-30.9	-30.8	-30.7	-30.6	-30.4	-30.5	-31.2	-32.2	-33.7	-36.4	-38.2	-39.5	-32.4	-30.4
19-Feb	-39.7	-39.1	-37.2	-35.6	-35.6	-34.9	-34.6	-33.7	-33.0	-31.0	-28.1	-26.0	-24.4	-23.4	-21.9	-21.2	-21.4	-22.9	-23.9	-23.8	-24.0	-24.3	-24.3	-24.5	-28.7	-21.2
20-Feb	-24.7	-25.0	-25.1	-25.2	-25.5	-25.7	-24.4	-23.3	-22.6	-20.5	-17.9	-16.1	-15.1	-15.4	-14.6	-15.0	-15.7	-17.7	-19.8	-21.5	-23.0	-24.3	-25.3	-25.9	-21.2	-14.6
21-Feb	-26.6	-27.6	-28.4	-28.2	-25.1	-25.5	-24.5	-23.3	-23.0	-21.9	-19.8	-19.2	-19.1	-18.2	-18.1	-18.4	-18.8	-19.5	-20.7	-22.3	-23.3	-24.1	-24.9	-25.7	-22.8	-18.1
22-Feb	-26.1	-26.4	-26.6	-27.2	-27.1	-27.1	-26.8	-26.8	-24.6	-22.1	-20.9	-19.8	-18.6	-17.8	-17.7	-18.2	-18.5	-19.2	-19.7	-19.9	-20.0	-20.0	-20.1	-20.1	-22.1	-17.7
23-Feb	-20.3	-20.5	-20.6	-20.8	-21.0	-21.2	-21.4	-21.7	-21.4	-20.5	-19.4	-18.6	-17.1	-16.4	-16.9	-16.2	-15.8	-17.9	-23.0	-26.3	-27.6	-28.5	-28.5	-29.0	-21.3	-15.8
24-Feb	-28.9	-27.7	-26.0	-26.6	-25.5	-24.4	-24.6	-22.8	-20.7	-19.1	-16.9	-15.1	-14.4	-14.2	-13.6	-12.8	-13.0	-15.3	-18.6	-18.9	-18.4	-17.3	-16.2	-15.6	-19.5	-12.8
25-Feb	-15.0	-14.1	-13.3	-13.2	-12.9	-12.9	-12.9	-13.9	-13.7	-10.9	-9.6	-8.0	-6.5	-6.4	-6.4	-6.8	-7.3	-8.3	-9.2	-9.6	-10.5	-11.6	-12.9	-13.9	-10.8	-6.4
26-Feb	-15.8	-16.9	-16.8	-16.0	-15.2	-14.3	-13.2	-13.9	-15.3	-14.1	-16.0	-16.7	-16.3	-17.4	-18.4	-19.3	-20.7	-21.8	-21.7	-21.6	-22.2	-23.6	-24.7	-25.5	-18.2	-13.2
27-Feb	-26.4	-27.4	-28.2	-29.0	-29.7	-30.6	-31.5	-32.3	-31.9	-31.5	-30.2	-29.4	-28.0	-27.3	-26.5	-25.9	-26.1	-27.2	-31.4	-33.9	-32.7	-34.8	-37.0	-38.3	-30.3	-25.9
28-Feb	-39.1	-40.1	-40.1	-35.5	-32.8	-31.4	-30.3	-29.8	-27.8	-24.0	-21.7	-19.9	-18.0	-16.5	-15.3	-14.7	-14.6	-15.6	-17.1	-17.6	-17.3	-16.2	-16.0	-16.5	-23.7	-14.6
	-17.5	-17.7	-17.6	-17.7	-17.6	-17.6	-17.6	-17.6	-17.3	-16.0	-15.0	-14.0	-13.1	-12.6	-12.3	-12.2	-12.7	-13.8	-15.0	-15.6	-16.0	-16.3	-16.8	-17.3	Diurnal Average	
	3.0	2.5	1.6	0.8	0.1	0.1	0.7	1.1	0.8	1.7	3.2	4.7	6.1	7.2	7.7	8.2	5.9	2.1	1.7	2.4	2.9	4.0	3.7	3.0	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Wapasu - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	213	31.70	31.70
-20 - 0	414	61.61	93.30
0 - 10	45	6.70	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 98.3 % on Feb 4 21:00

Maximum Daily Average: 93.0 % on Feb 3

Minimum Value: 40.0 % on Feb 13 16:00

Minimum Daily Average: 55.0 % on Feb 13

Maximum Diurnal Average: 81.9 % at hour 8

Minimum Diurnal Average: 70.5 % at hour 15

Monthly Average: 78.19 %

Percentiles: P_1 = 48.6 P_{10} = 63.2 Q_1 = 70.9 Median = 78.3 Q_3 = 87.4 P_{90} = 90.1 P_{99} = 97.0

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

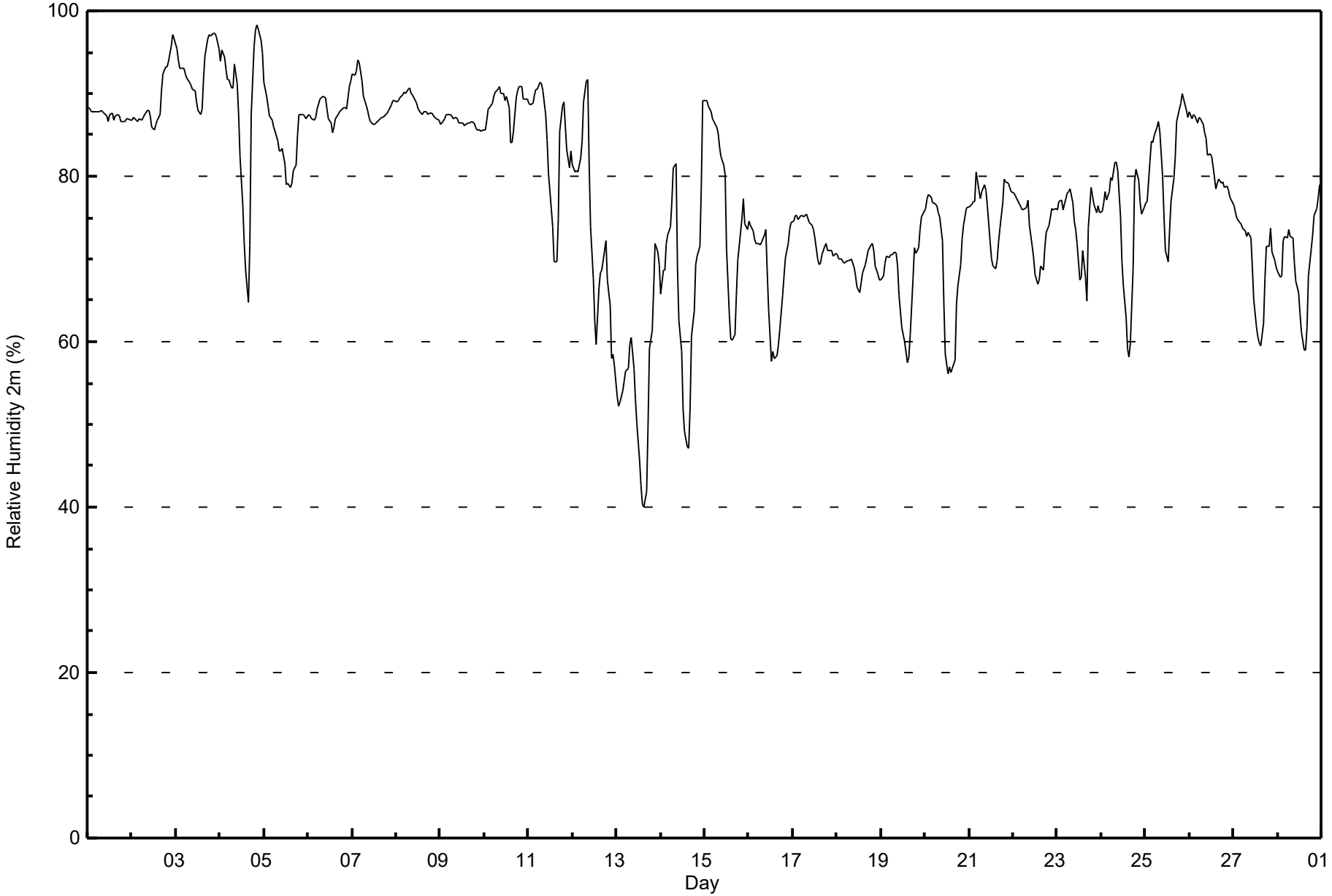
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	88.3	88.1	87.8	87.8	87.8	87.8	87.8	87.9	87.8	87.7	87.3	86.7	87.4	87.7	86.8	87.3	87.4	87.2	86.6	86.6	86.6	86.9	86.9	86.7	87.4	88.3
2-Feb	86.8	87.1	86.8	86.5	87.0	86.8	87.2	87.5	87.9	88.0	87.3	86.0	85.6	86.3	86.9	87.5	90.3	92.4	93.2	93.3	93.9	95.7	97.1	96.7	89.3	97.1
3-Feb	95.5	94.0	93.1	93.1	93.1	92.4	91.9	91.3	90.9	90.5	90.4	89.0	87.9	87.5	88.2	91.8	94.5	96.6	97.1	97.0	97.2	97.3	97.0	95.4	93.0	97.3
4-Feb	93.9	95.3	94.4	92.9	91.6	91.6	90.6	90.7	93.5	91.2	87.5	82.4	76.4	71.9	68.6	64.8	71.7	87.5	95.6	97.6	98.3	97.8	96.4	94.9	88.2	98.3
5-Feb	91.4	89.6	88.4	87.2	86.8	85.9	85.4	84.2	83.0	83.1	83.3	81.5	79.0	79.1	78.7	79.2	80.6	81.4	84.9	87.4	87.5	87.5	87.3	87.0	84.6	91.4
6-Feb	87.5	87.3	87.0	86.8	87.1	88.1	89.3	89.5	89.6	89.5	88.2	87.0	86.4	85.3	85.9	86.9	87.4	87.8	88.0	88.3	88.3	88.2	90.9	91.6	88.0	91.6
7-Feb	92.3	92.3	92.8	94.0	93.7	91.5	89.7	89.2	88.0	87.2	86.6	86.3	86.3	86.5	86.7	86.9	87.1	87.2	87.4	87.6	88.0	88.7	89.2	89.2	88.9	94.0
8-Feb	88.9	89.2	89.5	89.8	90.1	90.0	90.5	90.8	89.9	89.8	89.2	88.9	88.1	87.7	87.4	87.8	87.8	87.5	87.7	87.7	87.2	87.2	87.0	86.7	88.6	90.8
9-Feb	86.3	86.5	86.9	87.5	87.5	87.4	87.2	87.0	87.0	86.9	86.5	86.5	86.5	86.2	86.3	86.5	86.5	86.6	86.4	85.9	85.7	85.5	85.5	85.6	86.5	87.5
10-Feb	85.7	86.7	88.1	88.4	88.8	89.6	90.1	90.6	90.9	90.0	90.1	89.2	89.7	88.3	84.2	84.2	85.4	89.4	90.4	90.9	90.9	89.3	89.3	89.4	88.7	90.9
11-Feb	88.8	88.6	88.8	89.9	90.5	90.5	91.3	91.2	90.3	87.5	84.4	80.3	76.1	73.9	69.6	69.7	74.7	85.4	88.6	88.9	86.2	83.3	81.1	83.0	84.3	91.3
12-Feb	81.3	80.6	80.7	80.5	82.3	84.2	89.0	91.6	91.7	81.5	73.8	67.6	62.5	59.7	66.5	68.3	68.6	71.1	72.2	67.5	64.4	57.9	58.5	57.2	73.3	91.7
13-Feb	53.4	52.3	52.7	54.1	55.3	56.5	56.8	59.6	60.5	56.9	53.0	50.2	45.6	42.5	40.3	40.0	41.9	49.9	59.2	61.4	66.3	71.9	70.8	69.4	55.0	71.9
14-Feb	65.7	68.6	68.6	71.8	72.9	73.8	77.0	81.0	81.5	69.0	62.6	58.7	51.8	49.2	47.3	47.0	52.0	60.7	63.7	69.3	70.4	71.4	78.8	89.1	66.7	89.1
15-Feb	89.2	89.2	88.5	87.7	86.9	86.6	85.9	85.2	83.6	82.3	81.3	80.2	71.3	63.1	60.3	60.2	60.8	65.5	69.8	73.2	74.9	77.3	74.2	73.5	77.1	89.2
16-Feb	74.6	74.0	73.3	72.4	71.9	71.8	71.7	72.0	73.0	73.6	68.4	63.9	57.6	58.9	57.9	58.4	59.6	61.6	65.7	68.0	70.2	71.8	73.6	74.3	68.3	74.6
17-Feb	74.6	75.2	75.2	74.7	75.3	75.2	75.1	75.5	74.9	74.3	74.1	73.6	72.5	70.1	69.3	69.5	70.5	71.5	71.9	71.1	71.0	71.0	70.3	70.7	72.8	75.5
18-Feb	70.5	70.1	70.0	69.7	69.5	69.7	69.8	69.8	70.0	68.9	67.9	66.6	66.0	67.0	68.3	69.3	70.2	71.1	71.6	71.8	71.0	69.2	68.2	67.5	69.3	71.8
19-Feb	67.5	68.0	69.4	70.3	70.3	70.5	70.5	70.9	70.7	69.2	65.5	61.7	60.9	59.9	57.5	58.2	60.9	67.7	71.3	70.7	71.4	73.6	75.2	75.5	67.8	75.5
20-Feb	76.2	77.3	77.7	77.5	76.9	76.9	76.4	75.6	75.1	72.1	64.6	58.5	56.1	57.0	56.2	56.7	57.9	64.5	66.8	69.3	72.3	74.1	76.1	76.3	69.5	77.7
21-Feb	76.3	76.7	76.9	77.0	80.5	78.2	77.3	78.1	79.0	78.4	76.4	72.1	70.0	69.2	68.9	69.9	72.0	73.8	76.8	79.6	79.3	79.1	78.7	78.1	75.9	80.5
22-Feb	77.9	77.6	77.2	76.6	76.3	75.9	76.1	76.2	77.1	74.1	71.5	70.1	68.1	67.0	67.5	69.1	68.7	71.4	73.3	74.0	75.1	76.1	75.9	76.0	73.7	77.9
23-Feb	75.9	76.9	77.1	76.0	76.6	77.9	78.1	78.4	76.8	74.6	73.5	71.9	67.4	67.8	71.1	67.9	64.8	73.7	78.7	77.6	76.5	75.7	76.4	75.6	74.5	78.7
24-Feb	75.8	76.7	78.1	77.1	78.1	79.9	79.6	81.7	81.7	80.6	75.1	69.7	66.9	62.9	59.2	58.2	59.9	68.9	79.4	80.9	79.5	76.8	75.4	76.3	74.1	81.7
25-Feb	76.8	76.9	81.9	84.2	84.1	84.8	85.9	86.7	85.4	79.9	75.1	71.0	69.7	73.5	76.9	79.6	82.2	86.6	88.2	88.9	89.9	89.3	88.0	87.0	82.2	89.9
26-Feb	87.8	86.9	87.4	87.3	86.5	87.1	87.0	86.3	85.3	84.6	82.6	82.7	82.5	81.2	78.5	79.1	79.6	79.2	79.3	78.6	78.8	78.2	77.4	77.1	82.5	87.8
27-Feb	76.4	75.6	75.0	74.4	74.2	73.7	73.3	72.8	73.2	72.6	69.1	65.1	61.7	60.4	59.8	59.4	62.1	67.6	71.6	71.6	73.7	70.9	69.8	69.0	69.7	76.4
28-Feb	68.6	67.8	67.9	72.3	72.8	72.6	73.5	72.8	72.5	69.4	67.4	65.9	63.3	61.2	59.1	58.9	61.6	68.0	71.1	72.9	75.3	76.1	77.5	79.0	69.5	79.0
	80.5	80.5	80.8	81.0	81.2	81.3	81.6	81.9	81.8	79.8	77.2	74.8	72.3	71.1	70.5	70.8	72.4	76.5	79.1	79.9	80.4	80.3	80.4	80.6	Diurnal Average	
	95.5	95.3	94.4	94.0	93.7	92.4	91.9	91.6	93.5	91.2	90.4	89.2	89.7	88.3	88.2	91.8	94.5	96.6	97.1	97.6	98.3	97.8	97.1	96.7	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Wapasu - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	0	0.00	0.00
40 - 60	49	7.29	7.29
60 - 80	314	46.73	54.02
80 - 100	309	45.98	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Precipitation (PC) - mm

Wapasu - February 2026

Maximum Value: 2.2 mm on Feb 5 02:00

Maximum Daily Total: 7.0 mm on Feb 5

Minimum Value: 0.0 mm on Feb 1 01:00

Minimum Daily Total: 0.0 mm on Feb 1

Maximum Diurnal Total: 3.6 mm at hour 2

Minimum Diurnal Total: 0.5 mm at hour 22

Monthly Total: 33.05 mm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.2 P_{99} = 0.8

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

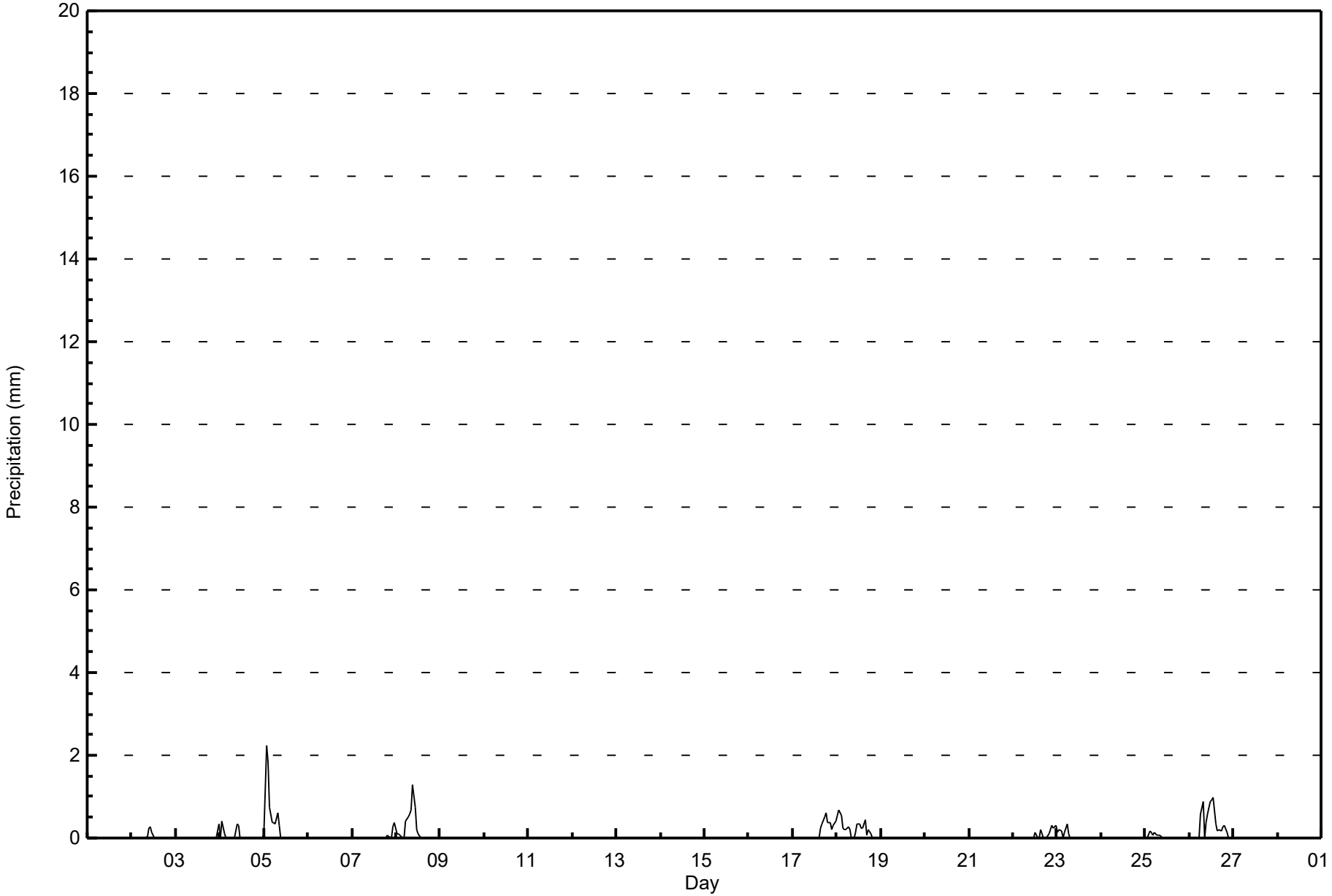
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3
3-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
4-Feb	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.4
5-Feb	0.1	2.2	1.8	0.8	0.4	0.4	0.4	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	2.2
6-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.3	0.4	0.8	0.4
8-Feb	0.1	0.1	0.1	0.0	0.0	0.4	0.5	0.6	0.7	1.3	0.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	1.3
9-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.5	0.6	0.4	0.4	0.2	0.3	0.4	3.4	0.6
18-Feb	0.6	0.7	0.5	0.3	0.2	0.2	0.3	0.2	0.0	0.0	0.1	0.3	0.3	0.3	0.2	0.4	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	5.1	0.7
19-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-Feb	0.0	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	0.2	0.0	0.0	0.0	0.1	0.2	0.3	0.2	0.3	1.5	0.3
23-Feb	0.1	0.2	0.2	0.0	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.3
24-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-Feb	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2
26-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.9	0.0	0.4	0.6	0.9	0.9	1.0	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.0	0.0	0.0	6.8	1.0
27-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.9	3.6	2.9	1.1	0.8	1.5	1.9	2.3	1.1	2.3	2.0	1.6	1.5	1.2	0.6	1.1	0.6	0.9	1.0	0.8	0.8	0.5	0.8	1.4	Diurnal Average	
	0.6	2.2	1.8	0.8	0.4	0.4	0.6	0.9	0.7	1.3	0.7	0.9	0.9	1.0	0.3	0.4	0.3	0.5	0.6	0.4	0.4	0.3	0.3	0.4	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Precipitation (PC) - mm

Wapasu - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Wapasu - February 2026

Maximum Speed: 21 km/h on Feb 26 19:00

Maximum Daily Speed Average: 13.4 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 10 04:00

Minimum Daily Speed Average: 1.1 km/h on Feb 25

Maximum Diurnal Speed Average: 2.7 km/h at hour 20

Minimum Diurnal Speed Average: 0.5 km/h at hour 11

Monthly Average Velocity: 1.0 km/h 115.2 deg

Percentiles: P_1 = 2 P_{10} = 3 Q_1 = 5 Median = 8 Q_3 = 10 P_{90} = 14 P_{99} = 19

Hours in Service: 672

Hours of Data: 672

Hours of Missing Data: 0

Percent Operational Time: 100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NNE3	NE2	SE2	SSE3	S4	S5	SSW5	S6	SSE8	SSE9	SSE10	SSE10	S11	S10	SSE9	SSE9	SSE11	SSE13	SSE14	SSE16	SSE15	SSE14	SSE15	SSE15	SSE8.7	SSE16
2-Feb	SSE14	SSE14	SSE13	SSE13	S12	SSE12	S12	S10	S10	S9	S10	S8	S7	SSW8	SSW7	WSW7	W5	WNW2	NNW3	N2	NNW6	N7	N8	N10	S5.1	SSE14
3-Feb	N8	N9	NNE10	NNE8	N9	NNE8	N6	NNE7	NNE5	NNE4	NNE1	SSW1	S3	S5	SSW6	SSW7	SSW8	S8	S11	S12	S13	S15	S16	SSE19	SSE2.2	SSE19
4-Feb	S16	SSE19	S16	S15	SSW14	SSW11	SW14	WSW16	SW12	SW11	SW14	WSW16	WSW15	W12	W11	W11	NNW8	NNE11	NNE11	NE10	NNE10	NNE9	NNE8	NE7	SW5.0	SSE19
5-Feb	NE7	NE9	NE10	NNE9	NE8	NNE10	N14	NNE13	NNE11	N12	N12	NNE10	NNE10	N10	NNE8	NNE7	NNE5	ENE5	NE5	ENE6	E5	SE3	SE3	SE5	NNE7.1	N14
6-Feb	SE6	SE7	SSE7	SSE9	SSE11	SSE11	SSE10	SSE11	SSE10	SSE9	SSE7	SSE10	S9	S13	SSE12	SSE9	SSE9	SSE9	SSE10	SSE11	SSE10	SSW3	NNW1	ESE2	SSE8.4	S13
7-Feb	NNE4	NE4	N5	N8	N10	NNE10	NNE9	N10	N9	NNE7	NNE6	NNE6	N5	NE4	NE4	NE4	NE3	NE2	ENE3	ENE3	ENE3	SE3	SSE2	NW1	NNE4.6	N10
8-Feb	NNE3	NNE2	N1	NNE2	N2	NNE3	NNE2	NNW3	NNE3	N5	NNE5	N7	N8	N9	N9	N8	N6	N6	N6	NNE5	N6	NNE4	NE3	NE3	N4.5	N9
9-Feb	E3	E2	E3	ENE3	ENE3	ENE2	NE3	NE3	NE3	NE4	NE5	NE4	N5	NNE5	NE5	NNE5	NE4	NNE4	NE4	NE4	NE5	ENE4	ENE3	NNE2	NE3.5	NNE5
10-Feb	NE3	ESE3	SE3	NW0	SSE4	SSE4	S4	S5	S7	S6	S7	S7	SSE10	S10	S9	S10	S12	S11	S13	S11	S9	S9	S8	S8	S6.9	S13
11-Feb	S8	S8	S8	S8	S7	S8	S7	S8	S9	S10	S9	SSW9	SW11	SW12	SW13	SW10	SSW9	S6	S7	S7	S7	S6	SSW6	S6	SSW7.9	SW13
12-Feb	S7	S7	S7	SSW8	SSW8	SSW7	SSW7	S7	SSW7	SSW7	SSW10	SSW10	SSW10	SW12	SSW11	SSW11	SSW11	SSW9	S11	SSW13	SSW14	SW19	SW18	SW17	SSW9.9	SW19
13-Feb	SW17	SW16	SW16	SW15	SW14	WSW10	WSW13	WSW11	SW10	SW12	WSW12	WSW11	WSW11	SW13	WSW12	SW11	SW10	SSW5	SSW5	S5	S5	S5	S5	SSE7	SW9.8	SW17
14-Feb	S7	SSE7	S6	S7	S7	S7	S7	S6	S6	SSW5	SSW6	WSW5	W3	WSW7	WSW6	WSW7	W3	NNE5	N3	ENE3	SSE3	SSW4	NNW8	E4	SSW3.1	NNW8
15-Feb	N5	NNE10	NNE7	NNE8	N9	NNE8	NNE8	NNE9	NNE9	NNE8	NNE10	N9	N10	N10	N10	N9	NNE8	NNE6	NNE5	ENE4	ENE4	NE5	NE3	NE4	NNE7.1	NNE10
16-Feb	NE5	ENE4	ESE3	SE2	SE3	SE4	SE3	SE3	SE4	NE3	NNE6	NNE5	NNE4	NNW10	N11	N10	N9	NE8	NE9	NE6	NNE7	NNE6	NNE6	NE7	NE4.3	N11
17-Feb	NE9	NE9	NE9	NE9	NE9	NE9	NNE10	NNE11	NNE11	NNE11	NNE14	NNE15	NNE16	NNE16	NNE17	NNE17	NNE17	NNE16	NNE15	NNE17	NNE16	NNE16	NNE17	NNE15	NNE13.4	NNE17
18-Feb	NNE17	NNE17	NNE16	NNE17	NNE17	NNE16	NNE16	NNE16	NNE17	NNE16	NNE16	NNE15	NNE15	NNE14	NNE13	N13	N11	N9	NNW9	NNW7	NNW3	SSE2	SE3	SE4	NNE11.6	NNE17
19-Feb	SSE5	SSE6	S5	S6	S7	SSE7	SSE7	S7	S8	SSW9	SSW10	SSW11	SW12	SW11	SSW10	SW10	SSW8	S6	S8	S9	S9	S7	S8	S8	S7.7	SW12
20-Feb	S7	SSE7	SSE8	SSE8	SSE7	SSE8	SSE7	S6	SSE5	S4	WSW4	WNW5	NNW7	N8	N8	N9	N8	NNE6	NNE7	NNE7	NE7	NE5	NE6	NE5	ENE1.3	N9
21-Feb	NE6	NE6	NE5	NE5	NE6	NNE6	ENE7	NE7	NE8	NE8	NE10	NE11	NE10	NNE11	NNE12	NE11	NNE10	NNE10	N10	NNE10	NNE8	NNE8	N8	NNE8	NNE8.1	NNE12
22-Feb	NE10	NE9	ENE9	ENE8	ENE9	ENE7	NE5	NNE3	ESE5	SE10	SE10	SE10	SE11	SE12	SE12	SE12	SE12	SE10	SE11	SSE13	SSE13	SSE12	SSE11	SSE11	SE7.8	SSE13
23-Feb	SSE11	SSE9	SSE8	S7	S6	S5	SSE4	SSE3	SSE4	SW3	WNW5	WNW4	WNW4	NW7	NNW5	NW3	NW4	NW3	E3	SSE4	SE4	SSE6	SSE6	SSE6	S2.3	SSE11
24-Feb	SSE5	SSE5	SSE4	SSE4	SSE4	SSE5	SSE5	SSE5	SSE4	S5	SW5	WSW7	W9	WSW9	WSW8	WSW10	SW6	S4	SSE6	SSE7	SSE8	SSE9	SSE10	SSE10	S4.7	SSE10
25-Feb	SSE10	SSE10	SSE9	SE8	SSE8	SSE6	SSW3	WSW2	S2	SW6	WSW7	SSW7	SW8	SW7	WSW6	WNW6	NNW4	N7	NNE6	NNE5	NE9	NNE8	NE7	NNE7	SSE1.1	SSE10
26-Feb	NNE7	NE5	NE5	NE5	NE5	ENE5	E7	NE5	NE7	NE9	NNE8	NNE10	NNE13	NNE15	N17	N18	N18	N21	N21	NNE21	N20	N21	N19	N18	NNE11.8	N21
27-Feb	N18	N17	N16	N14	N13	N12	N9	NNE8	NNE10	NNE10	NNE9	N10	N8	N8	N8	NNE8	NNE7	NE4	NNE3	E4	ENE5	SE3	SE4	SE4	NNE7.7	N18
28-Feb	SSE5	SSE5	SSE6	SSE8	SSE7	S8	S8	S8	S9	SSW9	SSW11	SSW11	SW14	SW15	SSW13	SSW14	SSW12	SSW9	S11	S11	S10	S11	S10	S10	SSW9.4	SW15
	ESE2.0	ESE2.6	ESE2.2	ESE2.1	ESE1.8	ESE1.7	SE1.2	ESE0.8	ESE1.5	SE1.1	SSW0.5	WSW0.8	WNW1.3	W1.8	WNW1.1	WNW1.4	NNW0.7	NE1.5	E2.0	ESE2.7	ESE2.4	SE1.8	SE1.7	ESE2.3	Diurnal Average	
	N18	SSE19	N16	NNE17	NNE17	NNE16	NNE16	WSW16	NNE17	NNE16	NNE16	WSW16	NNE16	NNE16	NNE17	N18	N18	N21	N21	NNE21	N20	N21	N19	SSE19	Diurnal Maximum	

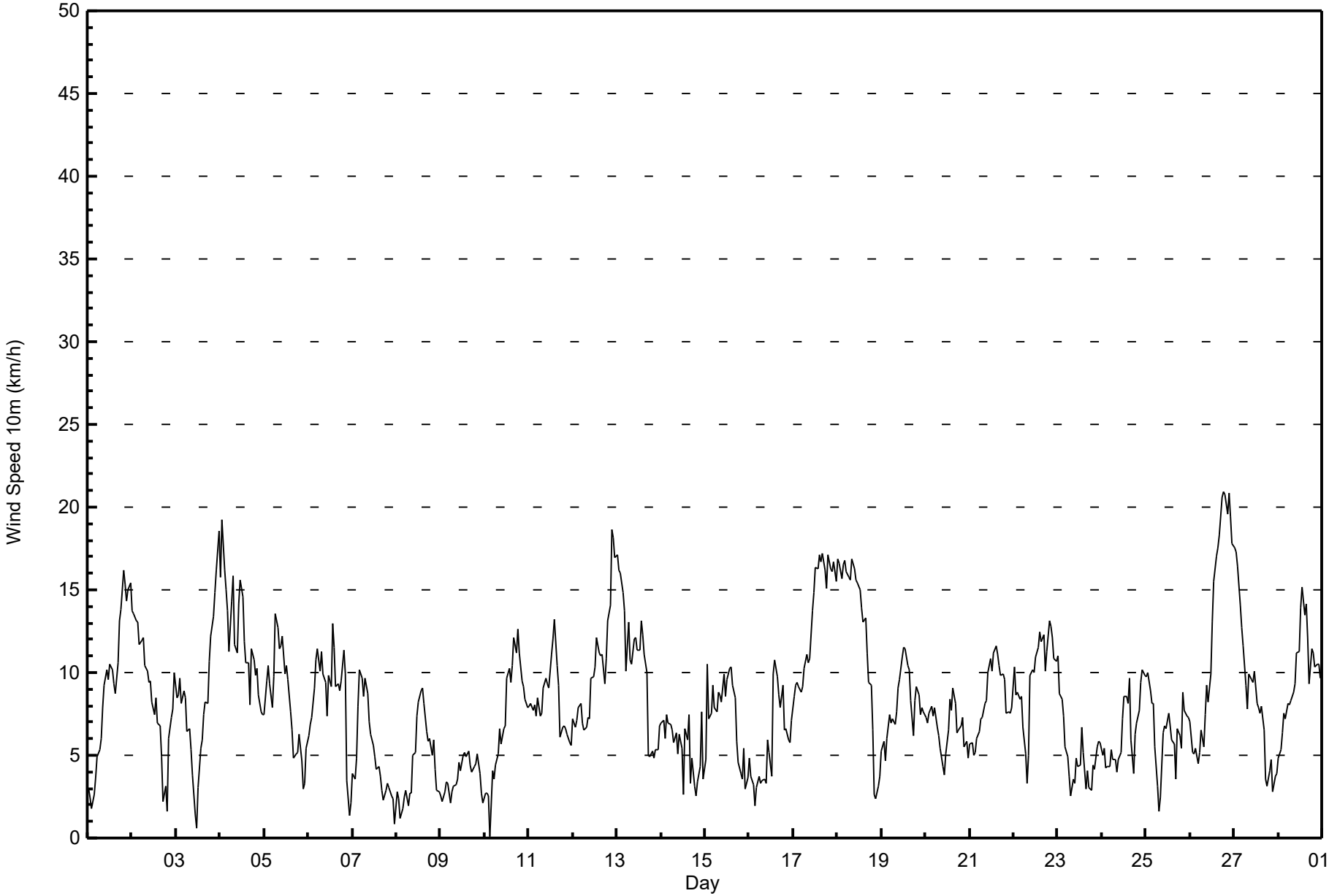
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Wapasu - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	188	27.98	27.98
6 - 11	365	54.32	82.29
12 - 19	114	16.96	99.26
20 - 28	5	0.74	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Wapasu - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	9	27	36	16	7	5	17	24	15	8	2	3	2	6	5	6	188
6 - 11	43	65	33	6	1	0	9	58	79	33	12	14	3	1	1	7	365
12 - 19	15	33	0	0	0	0	4	18	12	6	19	7	0	0	0	0	114
20 - 28	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	71	126	69	22	8	5	30	100	106	47	33	24	5	7	6	13	672

Total Number of Valid Hours: 672

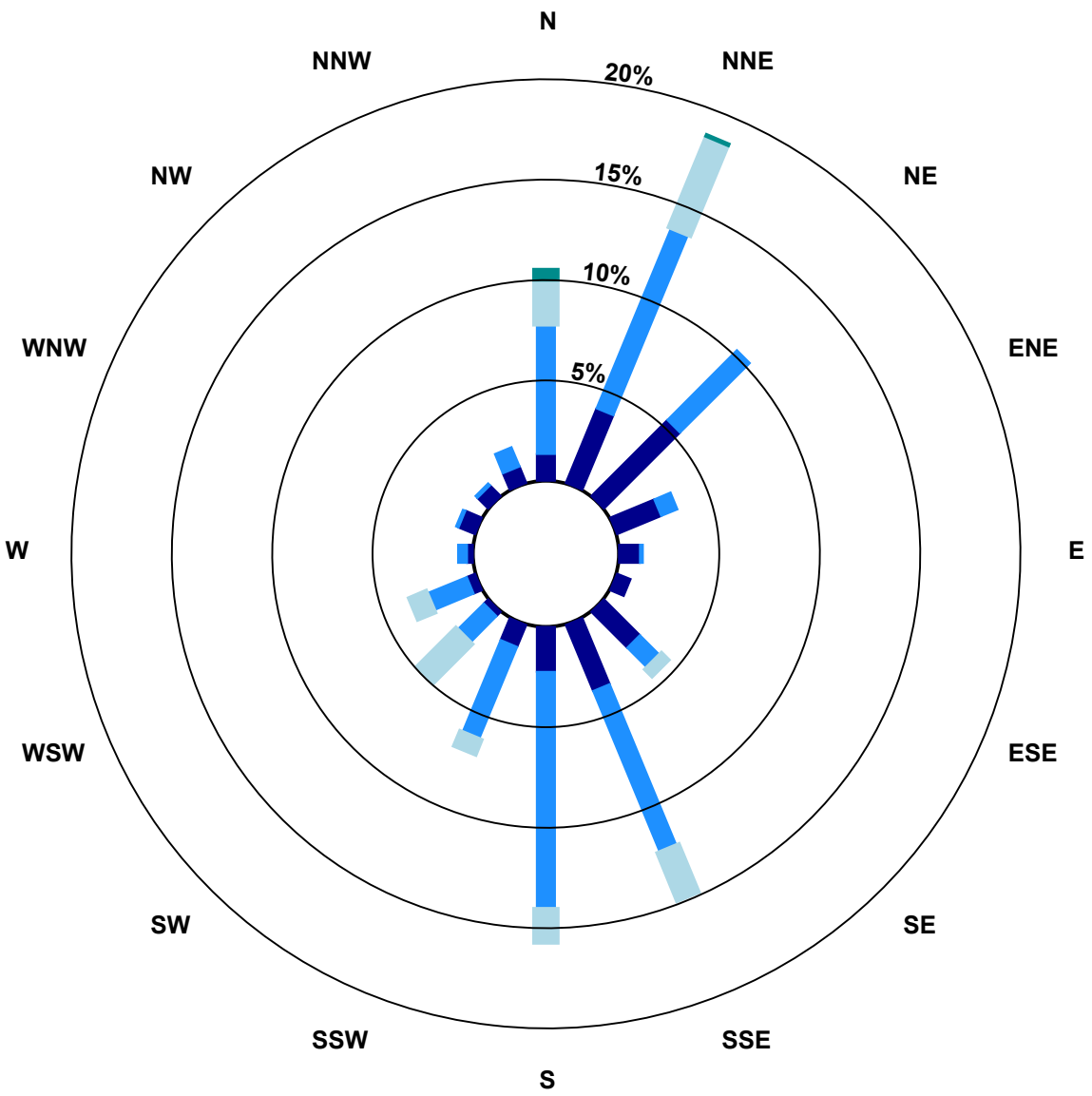
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Wapasu



Classes (km/h)

0 - 5

6 - 11

12 - 19

20 - 28

29 - 38

> 38

Total Number of Valid Hours: 672

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 6 km/h on Feb 26 20:00

Minimum Value: 0 km/h on Feb 24 05:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	2	1	1	1	2	2	2	2	3	3	3	3	4	3	3	3	4	4	4	4	4	4	4	4
2-Feb	4	4	3	4	3	4	3	3	3	3	3	3	2	3	2	2	2	1	1	2	1	2	2	3	4
3-Feb	2	3	3	3	3	3	2	3	2	1	2	1	2	2	2	3	3	3	4	4	4	5	5	5	5
4-Feb	5	6	5	5	4	4	4	4	3	3	3	4	4	4	3	3	4	3	3	4	3	3	2	2	6
5-Feb	2	3	3	3	3	3	4	4	4	4	4	3	3	3	2	2	2	2	2	2	2	1	2	2	4
6-Feb	2	2	2	3	3	3	3	3	3	4	3	3	3	5	4	3	3	3	3	3	3	2	1	1	5
7-Feb	2	2	1	4	3	3	3	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	4
8-Feb	1	1	1	1	1	1	1	2	1	2	2	2	2	2	3	2	2	2	2	2	2	1	1	1	3
9-Feb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	2	2	1	1	2
10-Feb	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	4	4	3	4	3	3	3	2	2	4
11-Feb	2	2	2	2	2	2	2	2	3	3	3	3	3	4	4	3	3	1	1	1	1	1	1	1	4
12-Feb	2	2	2	2	3	2	2	2	2	2	3	3	3	4	4	3	4	3	3	4	5	5	5	4	5
13-Feb	4	4	4	3	4	3	3	3	2	3	3	3	3	3	3	3	2	2	1	1	1	1	1	1	4
14-Feb	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	2	1	1	1	1	5	2	5
15-Feb	3	3	2	3	3	2	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	1	1	1	3
16-Feb	1	1	1	1	1	0	1	1	1	2	2	2	3	2	3	3	2	3	3	2	2	2	2	2	3
17-Feb	3	3	3	3	3	3	3	4	4	4	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6
18-Feb	6	6	6	6	6	5	6	5	6	6	5	5	5	5	4	4	3	3	2	1	2	1	0	1	6
19-Feb	1	1	1	1	1	1	2	2	2	3	3	3	3	4	4	3	3	2	2	3	2	2	2	1	4
20-Feb	2	1	1	2	2	1	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	1	2	1	2
21-Feb	1	1	1	1	2	3	2	2	2	3	4	4	4	5	4	4	4	3	3	3	2	2	2	2	5
22-Feb	3	3	3	2	2	2	1	1	3	3	3	3	3	3	4	4	4	4	4	4	4	3	3	3	4
23-Feb	3	3	2	3	2	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	3
24-Feb	1	1	0	1	0	1	1	1	1	1	2	2	3	3	3	3	2	1	1	1	1	2	2	2	3
25-Feb	2	3	2	2	2	2	1	2	2	2	2	2	2	2	2	2	1	2	2	2	3	2	2	2	3
26-Feb	2	2	2	1	1	2	2	2	2	3	3	4	4	5	5	5	5	6	6	6	6	6	6	5	6
27-Feb	5	5	5	4	4	4	3	3	3	3	3	2	3	2	2	2	2	1	1	1	2	1	1	1	5
28-Feb	1	1	1	1	1	2	2	3	3	3	3	4	4	5	5	5	4	3	3	3	3	3	3	3	5
	6	6	6	6	6	5	6	5	6	6	5	5	6	6	6	6	6	6	6	6	6	6	6	6	
	Diurnal Maximum																								

Direction of Maximum Speed: 10 deg on Feb 26 19:00
Direction of Maximum Daily Speed Average: 27.3 deg on Feb 17

Direction of Minimum Speed: 325 deg on Feb 10 04:00

Direction of Minimum Daily Speed Average: 1.1 deg on Feb 25

Monthly Average Direction: 115.2 deg

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	21	56	124	154	178	189	194	184	165	165	163	163	171	173	167	164	166	160	157	160	159	157	162	163	163.4
2-Feb	164	166	161	160	170	168	169	176	174	174	181	189	190	207	207	238	275	302	332	359	343	351	10	0	179.9
3-Feb	2	10	12	19	6	14	7	18	31	20	17	196	184	185	192	201	197	182	185	183	178	174	170	165	160.7
4-Feb	173	168	177	179	195	206	232	241	232	229	235	245	251	259	263	274	328	13	17	41	23	19	33	37	230.5
5-Feb	34	44	35	30	37	18	9	12	14	4	1	14	14	4	16	22	22	63	52	78	92	125	141	139	27.0
6-Feb	144	139	154	156	151	147	153	149	150	149	160	162	171	172	167	166	166	163	160	163	161	198	335	106	158.1
7-Feb	28	35	11	359	2	13	14	10	10	17	19	13	5	40	52	42	41	34	61	64	65	128	155	308	21.6
8-Feb	19	12	7	15	354	24	32	336	17	357	16	3	8	3	360	350	3	6	2	21	10	22	45	46	7.9
9-Feb	84	90	93	71	66	68	49	47	49	50	53	34	7	15	40	30	35	18	43	44	51	61	59	24	45.5
10-Feb	39	109	145	325	161	161	173	179	177	188	181	182	166	172	176	182	174	188	173	176	174	181	181	181	174.9
11-Feb	185	177	182	185	186	191	187	182	186	187	189	198	218	231	228	221	207	188	180	181	189	186	192	174	195.8
12-Feb	184	183	191	210	213	208	194	187	196	195	205	208	211	216	202	193	196	193	181	192	213	229	229	235	206.1
13-Feb	232	232	232	234	235	241	249	252	235	231	240	243	242	234	241	236	232	211	210	173	172	171	170	164	229.9
14-Feb	175	160	189	169	175	173	189	176	172	209	205	239	274	243	239	253	281	13	3	60	155	196	336	88	199.1
15-Feb	352	15	29	21	10	12	16	15	17	20	12	11	7	10	9	7	13	20	32	60	71	45	40	44	17.7
16-Feb	53	72	112	144	130	144	125	132	129	39	16	26	16	343	8	6	8	42	46	38	31	30	31	39	36.5
17-Feb	35	41	36	36	34	34	31	33	27	31	23	25	24	22	21	23	21	23	27	27	31	25	27	27	27.3
18-Feb	25	24	22	23	23	18	22	25	23	23	23	19	18	14	13	7	9	6	348	347	331	159	142	142	19.0
19-Feb	153	155	176	171	169	167	166	181	188	194	197	205	224	214	207	218	203	184	179	182	184	187	184	176	189.6
20-Feb	173	162	166	165	165	165	166	170	164	174	237	294	347	352	8	5	359	19	30	23	42	38	38	40	72.1
21-Feb	34	45	46	36	44	24	58	52	52	44	52	35	37	26	29	36	27	31	11	12	15	13	11	27	32.4
22-Feb	48	55	62	62	71	60	55	28	112	127	132	137	136	141	141	137	142	145	145	147	149	148	156	158	123.9
23-Feb	157	155	161	170	169	169	159	161	162	235	289	293	293	326	335	323	321	322	93	147	145	153	151	155	174.4
24-Feb	151	154	156	155	152	153	160	161	166	181	215	239	265	256	254	242	215	180	148	150	147	153	153	150	182.0
25-Feb	148	151	148	146	152	162	199	245	172	229	240	207	229	236	238	282	337	3	19	22	35	23	40	23	167.8
26-Feb	25	42	44	51	39	66	84	37	54	53	30	32	14	13	8	6	2	360	10	14	5	0	360	0	15.5
27-Feb	358	358	3	7	10	10	7	12	15	15	18	351	356	355	9	19	18	39	22	90	77	139	135	133	12.2
28-Feb	155	154	154	159	165	173	176	180	189	193	204	208	216	215	213	212	206	195	183	184	184	191	189	180	191.5
	104.9	107.7	115.7	118.3	121.2	119.3	125.6	114.0	121.7	138.3	194.9	257.8	281.4	279.3	294.1	297.4	340.1	52.1	83.6	109.3	110.7	131.7	126.5	123.5	
	Diurnal Average																								

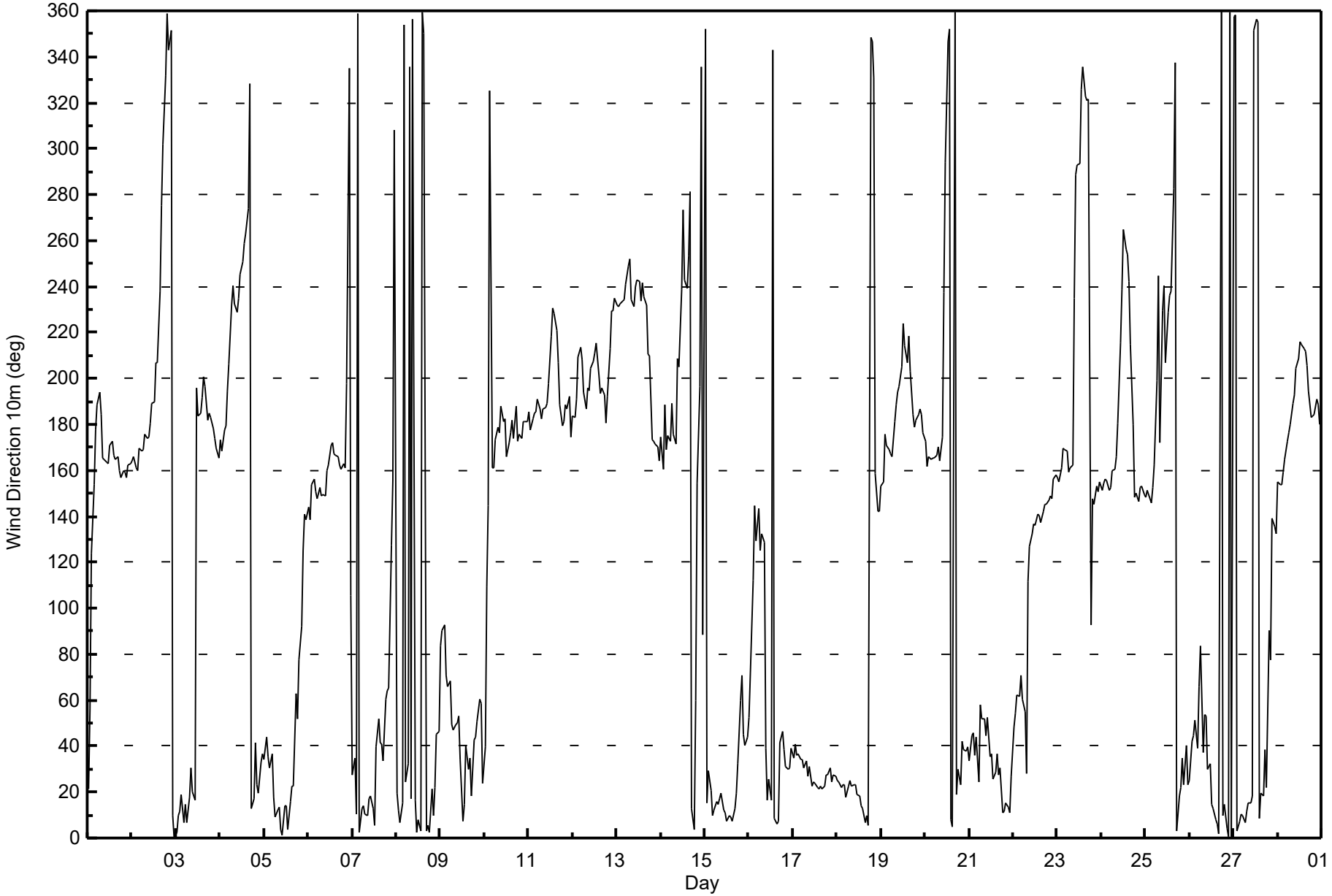
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Wapasu - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Wapasu - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 91 deg on Feb 10 04:00

Minimum Value: 4 deg on Feb 28 02:00

Percentiles: P_1 = 6 P_{10} = 17 Q_1 = 21 Median = 26 Q_3 = 29 P_{90} = 32 P_{99} = 71

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	32	42	46	27	25	28	32	30	21	21	22	24	25	26	27	25	23	21	21	19	20	19	19	20	46
2-Feb	19	21	20	20	24	23	21	26	26	26	26	29	30	30	30	24	29	33	18	18	18	22	25	21	33
3-Feb	23	27	28	29	26	27	27	30	30	32	74	78	58	29	34	30	29	27	29	27	26	26	24	21	78
4-Feb	28	23	28	26	30	30	21	18	18	19	17	17	20	22	25	26	48	30	28	31	31	29	30	31	48
5-Feb	28	27	29	28	28	28	25	27	27	24	25	29	28	24	29	28	31	24	25	23	27	35	20	21	35
6-Feb	22	19	21	20	20	19	22	19	23	25	31	22	28	25	26	23	24	23	21	22	22	38	70	59	70
7-Feb	37	28	28	25	23	26	26	26	28	29	29	27	27	33	26	29	32	33	23	23	21	31	25	76	76
8-Feb	21	31	60	51	33	35	25	36	29	18	27	24	27	25	23	19	27	25	24	29	27	30	32	33	60
9-Feb	28	28	24	28	25	24	29	25	27	31	32	35	24	27	30	29	29	29	29	29	26	30	25	26	35
10-Feb	24	33	23	91	25	19	27	30	29	29	32	29	22	24	27	28	26	29	25	27	22	28	24	26	91
11-Feb	23	23	25	24	25	25	22	25	25	26	29	29	26	19	17	24	26	21	16	16	19	20	24	19	29
12-Feb	26	23	25	24	24	22	21	20	26	28	25	28	29	23	29	28	28	28	24	29	28	17	17	16	29
13-Feb	16	16	17	16	17	18	19	21	17	16	18	18	20	17	19	18	16	24	16	15	9	8	7	9	24
14-Feb	14	12	17	14	18	13	18	19	15	27	31	23	64	25	29	23	73	39	43	54	16	22	54	51	73
15-Feb	74	28	31	29	27	28	27	28	29	31	25	28	24	28	25	28	27	28	19	24	28	17	19	27	74
16-Feb	17	23	38	40	14	8	17	17	17	45	30	45	70	21	27	23	25	26	24	25	26	25	26	27	70
17-Feb	29	28	27	28	27	30	28	27	29	31	28	30	30	30	29	31	28	31	32	30	30	29	31	31	32
18-Feb	31	30	30	29	29	29	30	29	29	30	30	28	29	28	27	24	27	24	17	13	19	45	10	6	45
19-Feb	12	7	15	13	16	17	16	26	27	30	31	29	26	27	29	25	30	25	22	24	25	25	20	14	31
20-Feb	15	16	14	14	15	12	17	20	25	26	42	45	32	24	28	24	23	25	28	27	25	23	23	23	45
21-Feb	23	20	26	25	30	37	22	23	25	30	28	31	32	32	31	30	32	30	28	27	26	25	24	28	37
22-Feb	24	25	20	19	19	22	19	26	58	23	22	24	24	24	23	22	22	21	20	21	19	19	21	20	58
23-Feb	21	19	21	26	24	23	27	28	22	51	37	49	54	36	27	32	31	28	20	24	12	7	5	5	54
24-Feb	5	6	6	7	5	6	9	13	17	26	34	28	28	27	28	24	32	34	8	9	12	16	17	18	34
25-Feb	17	19	17	16	18	32	30	79	28	31	28	31	28	33	22	41	40	20	30	27	27	32	27	30	79
26-Feb	27	24	25	20	29	32	23	33	29	24	30	32	28	27	26	25	23	21	25	28	25	22	22	21	33
27-Feb	21	21	23	25	26	26	25	27	29	28	29	24	33	31	28	28	32	28	16	20	10	15	16	24	33
28-Feb	5	4	5	7	11	16	20	27	27	28	26	27	25	25	27	25	29	28	25	26	25	29	28	24	29
	74	42	60	91	33	37	32	79	58	51	74	78	70	36	34	41	73	39	43	54	31	45	70	76	
	Diurnal Maximum																								

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS18
STONY MOUNTAIN
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - STONY MOUNTAIN (AMS18)
FEBRUARY 2026

MONTHLY SUMMARY for
AMD SECTION III.B.1(c)

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-Min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2(ppb) Average	639	32	33	99.85	-	-	9.1	0	1.5	0
TRS(ppb) Average	636	33	36	99.55	0.7	0	0.7	-	0.5	-
THC(ppm) Average	639	32	33	99.85	-	-	2.3	-	2.2	-
NMHC(ppm) Average	639	32	33	99.85	-	-	0.034	-	0.003	-
CH4(ppm) Average	639	32	33	99.85	-	-	2.3	-	2.2	-
O3 (ppb) Average	639	32	33	99.85	-	-	45.6	0	44	-
NO2 (ppb) Average	590	33	82	92.71	-	-	12.1	0	5.4	-
NO (ppb) Average	590	33	82	92.71	-	-	3.5	-	0.7	-
NOX (ppb) Average	590	33	82	92.71	-	-	12.1	-	6.1	-
PM2.5 (ug/m3) Average	671	1	1	100	-	-	31.2	0	11.8	0
Temperature 2 m (C) Average	672	0	0	100	-	-	9.7	-	3.9	-
Relative Humidity (%) Average	672	0	0	100	-	-	98.1	-	95.9	-
Wind Speed 20 m (km/h) Average	672	0	0	100	-	-	29	-	21	-
Wind Direction 20 m (deg) Average	672	0	0	100	-	-	-	-	-	-
Precipitation (mm) Total	672	0	0	100	-	-	1.7	-	12.9	-
Leaf Wetness (% of range) Average	672	0	0	100	-	-	51.3	-	4.9	-
Global Solar Radiation (W/m2) Average	672	0	0	100	-	-	504.4	-	117.5	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - STONY MOUNTAIN (AMS18)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	639	0.45	0.8	-	0	0	0.1	0.2	0.5	1.2	9.1
TRS (ppb) Average	636	0.47	0.1	-	0.4	0.4	0.4	0.5	0.5	0.5	0.7
THC (ppm) Average	639	2.1	0.1	-	2	2	2	2.1	2.1	2.2	2.3
NMHC(ppm) Average	639	0	0.002	-	0	0	0	0	0	0	0.034
CH4(ppm) Average	639	2.1	0.1	-	2	2	2	2.1	2.1	2.2	2.3
O3 (ppb) Average	639	28.67	8.3	-	4.3	18.7	23	27.8	35	40.6	45.6
NO2 (ppb) Average	590	1.91	1.6	-	0.2	0.5	0.7	1.4	2.7	3.9	12.1
NO (ppb) Average	590	0.17	0.4	-	0	0	0	0	0.1	0.5	3.5
NOX (ppb) Average	590	2.07	1.7	-	0.2	0.5	0.8	1.5	2.9	4.3	12.1
PM2.5 (ug/m3) Average	671	4.17	3.5	-	0.4	1.7	2.1	2.9	5	8.3	31.2
Temperature 2 m (C) Average	672	-11.01	10	-	-32.9	-25.2	-19.6	-9.5	-3	0.9	9.7
Relative Humidity (%) Average	672	75.83	15.2	-	28.5	53.8	67.9	77.5	88.9	93.9	98.1
Wind Speed 20 m (km/h) Average	672	11	5	-	2	5	7	10	14	18	29
Wind Direction 20 m (deg) Average	672	-	-	-	-	-	-	-	-	-	-
Precipitation (mm) Total	672	-	-	42.87	-	-	-	-	-	-	-
Surface Wetness (% of range) Average	672	2.26	2.3	-	0.5	1.2	1.4	1.8	2.8	3.7	51.3
Global Solar Radiation (W/m2) Average	672	54.88	101.9	-	0	0	0	0.5	61.6	212.9	504.4

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - STONY MOUNTAIN (AMS18)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Period Start	Period End	Duration (Hours)	Notes
O3, SO2, THC, TRS	25 Feb 2026 16:00	25 Feb 2026 16:00	1	Maintenance - sample manifold cleaned
TRS	19 Feb 2026 10:00	19 Feb 2026 11:00	2	Maintenance - reinitiated daily QA check
NO2	21 Feb 2026 02:00	23 Feb 2026 02:00	49	Unstable Operations - QA check not within AMD compliance

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Stony Mountain - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 9.1 ppb on Feb 15 23:00 Maximum Daily Average: 1.5 ppb on Feb 27

Minimum Value: 0.0 ppb on Feb 2 11:00
Maximum Diurnal Average: 0.8 ppb at hour 23
Monthly Average: 0.45 ppb

Minimum Daily Average: 0.0 ppb on Feb 17
Minimum Diurnal Average: 0.3 ppb at hour 9
Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.2 Q_3 = 0.5 P_{90} = 1.2 P_{99} = 3.5

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.3	Z	1.2	2.1	1.5	1.2	0.9	0.7	1.5	1.4	0.9	0.9	0.9	0.5	0.5	0.3	0.4	0.2	0.1	0.1	0.0	0.1	0.2	0.2	0.7	2.1
2-Feb	0.1	0.3	Z	0.2	0.4	0.4	0.3	0.1	0.2	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.4	0.4	0.2	0.4
3-Feb	0.3	0.1	0.1	Z	0.2	0.1	0.2	0.2	0.2	0.4	0.3	0.1	0.1	0.1	0.2	0.1	0.3	0.3	0.1	0.4	0.3	0.2	0.7	0.9	0.3	0.9
4-Feb	0.2	0.3	0.1	0.1	Z	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3
5-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.4	0.3	0.2	0.8	0.8	1.3	1.1	0.8	1.0	1.7	1.7	1.3	1.3	1.7	1.4	0.9	1.3	1.9	0.9	1.9
6-Feb	Z	2.3	2.1	2.0	1.9	1.5	0.9	0.5	0.4	0.5	0.9	1.4	0.8	0.6	0.4	0.3	0.1	0.1	0.1	0.2	0.4	0.2	0.1	0.1	0.8	2.3
7-Feb	0.0	Z	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.1	1.8	1.2	0.9	0.4	0.2	0.1	0.2	0.2	0.1	0.1	0.4	3.1
8-Feb	0.0	0.0	Z	0.2	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.4
9-Feb	0.0	0.0	0.0	Z	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	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2
10-Feb	0.1	0.1	0.1	0.1	Z	0.0	0.0	0.0	0.0	0.1	0.5	0.4	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.4	0.8	1.0	0.9	0.3	1.0
11-Feb	0.7	0.7	0.5	0.3	0.2	Z	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.7
12-Feb	Z	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.7	0.8	0.7	0.3	0.2	0.8
13-Feb	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
14-Feb	0.0	0.0	Z	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.2
15-Feb	0.2	0.1	0.1	Z	0.1	0.2	0.2	0.0	0.1	0.1	0.3	0.2	0.4	0.5	0.4	0.2	0.5	0.4	0.8	1.3	1.5	4.9	9.1	2.5	1.0	9.1
16-Feb	1.5	0.9	0.7	0.3	Z	0.1	0.0	0.0	0.0	0.2	0.7	0.7	0.4	0.7	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5
17-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	C	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
18-Feb	Z	0.3	0.3	0.2	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.2	0.2	0.4	0.6	1.3	0.9	1.4	1.6	1.8	0.4	1.8
19-Feb	1.0	Z	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.3	0.6	0.2	1.0
20-Feb	1.3	1.4	Z	1.0	0.8	0.6	0.4	0.4	0.4	0.6	0.5	0.6	0.8	1.0	0.9	1.3	1.7	2.1	1.6	0.9	0.5	0.5	0.5	0.4	0.9	2.1
21-Feb	0.6	1.0	1.4	Z	0.9	0.5	0.5	0.7	0.6	0.5	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4
22-Feb	0.0	0.0	0.0	0.0	Z	0.2	0.1	0.2	0.1	0.6	2.2	1.0	1.0	1.2	0.9	0.7	0.5	0.4	0.2	0.6	0.1	0.4	0.2	0.4	0.5	2.2
23-Feb	0.5	0.5	0.8	0.6	0.3	Z	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.8
24-Feb	Z	0.1	0.1	0.2	0.2	0.3	0.3	0.6	0.7	0.7	0.5	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.7
25-Feb	0.3	Z	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.2	M	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.4
26-Feb	0.4	0.3	Z	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	1.1	1.5	2.0	1.6	1.4	2.7	2.6	2.9	3.6	1.0	3.6
27-Feb	2.1	2.6	3.4	Z	3.1	3.2	3.0	3.1	2.7	2.3	1.2	0.5	0.2	0.2	0.1	0.4	0.6	0.3	0.3	0.5	0.7	0.8	1.2	2.9	1.5	3.4
28-Feb	4.8	3.7	4.1	6.8	Z	1.6	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.2	0.4	0.2	0.3	0.4	0.2	0.7	0.5	0.6	0.6	0.6	1.2	6.8
	0.6	0.7	0.7	0.7	0.5	0.5	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.6	0.8	0.7	Diurnal Average	
	4.8	3.7	4.1	6.8	3.1	3.2	3.0	3.1	2.7	2.3	2.2	1.4	1.2	3.1	1.8	1.7	1.7	2.1	1.6	1.7	2.7	4.9	9.1	3.6	Diurnal Maximum	

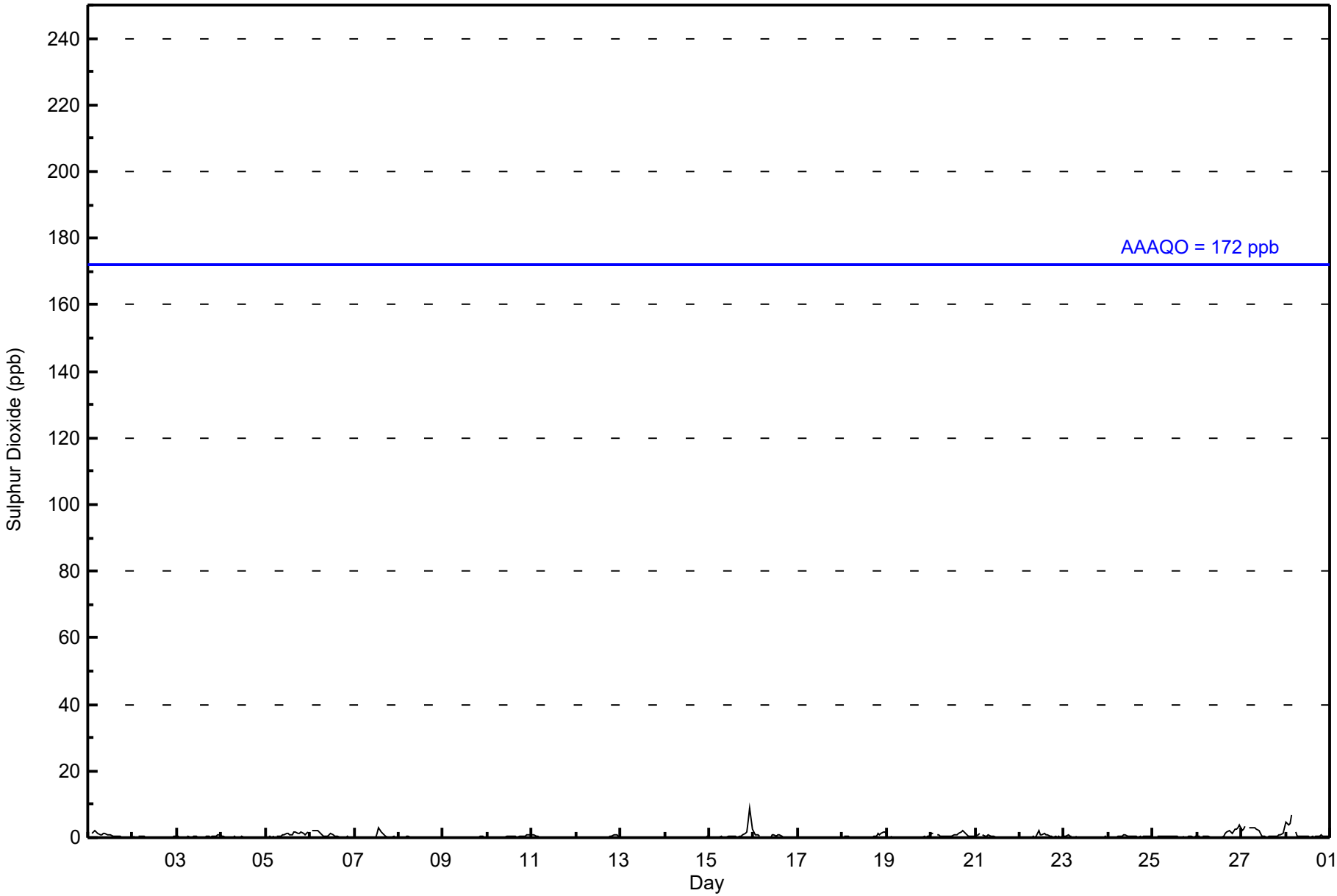
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Stony Mountain - February 2026



Sulphur Dioxide (SO_2) - ppb
Stony Mountain - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	639	100.00	100.00
11 - 20	0	0.00	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Stony Mountain - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	19	32	64	25	28	35	12	19	20	56	78	58	66	41	49	37	639
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	19	32	64	25	28	35	12	19	20	56	78	58	66	41	49	37	639

Total Number of Valid Hours: 639

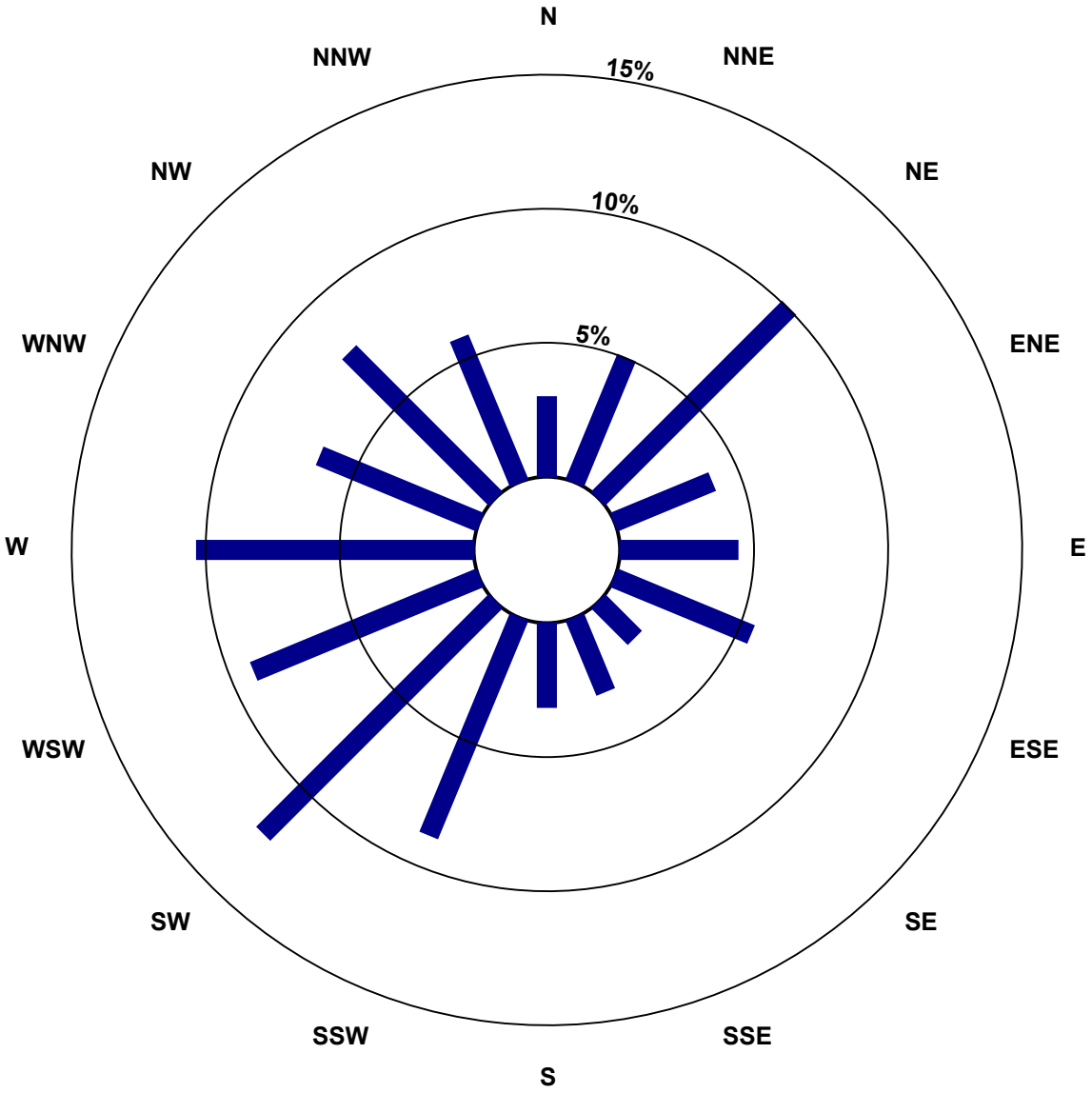
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Stony Mountain



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

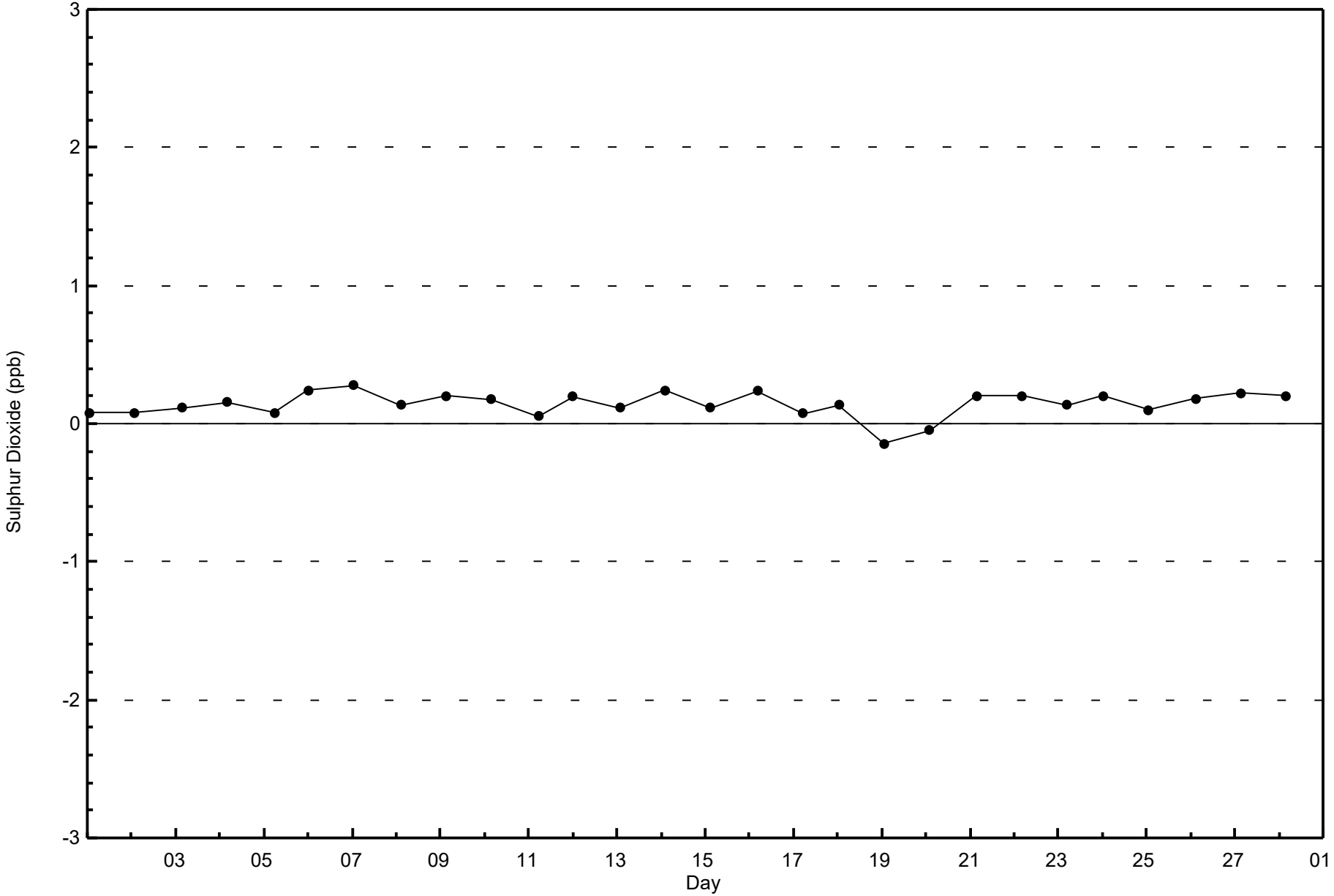
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Stony Mountain - February 2026

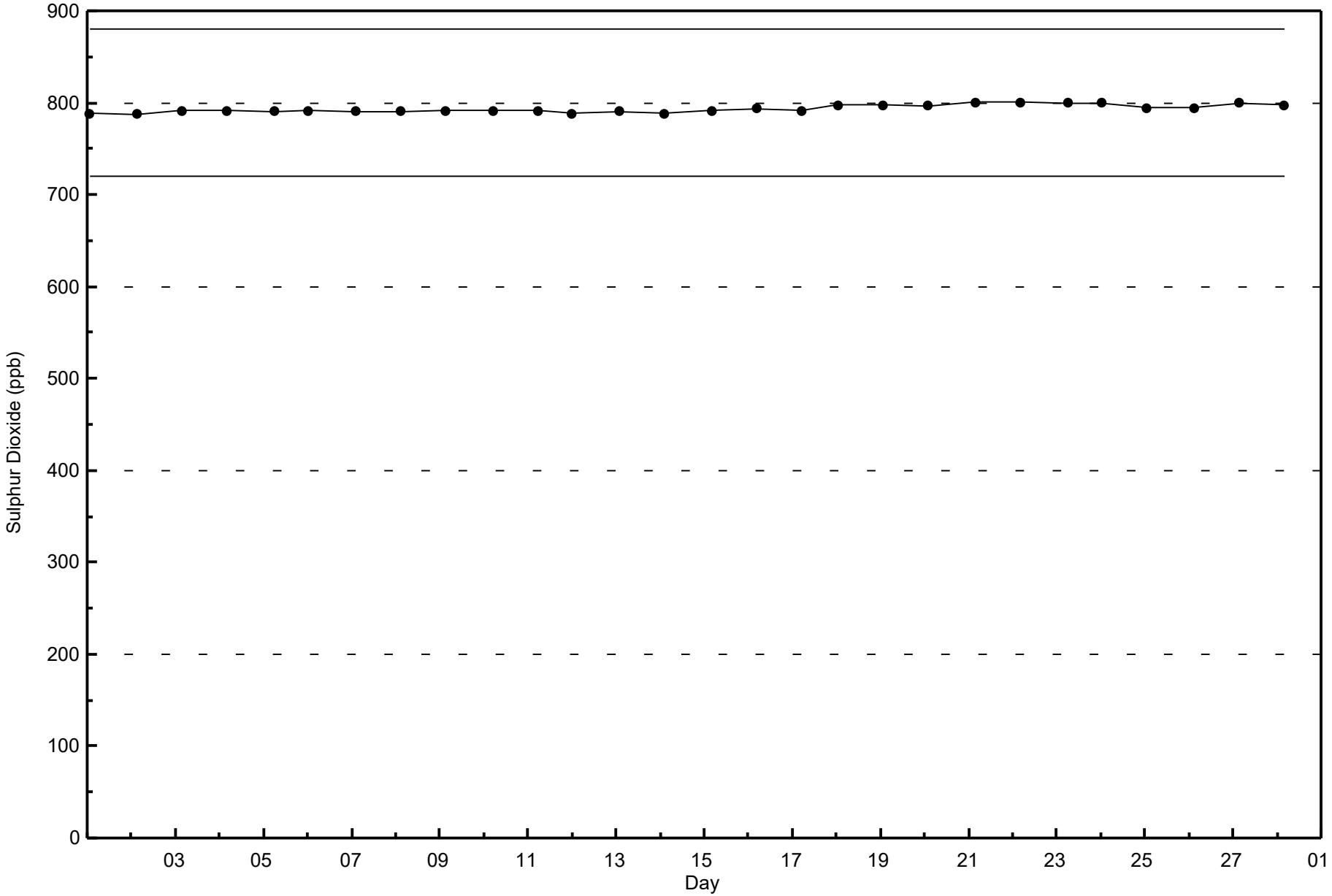


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Stony Mountain - February 2026

Number of Exceedences (AAAQG): 30-Min: 0

Maximum Value: 0.7 ppb on Feb 7 13:30 Maximum Daily Average: 0.5 ppb on Feb 15

Minimum Value: 0.4 ppb on Feb 12 20:00 Minimum Daily Average: 0.4 ppb on Feb 4

Maximum Diurnal Average: 0.5 ppb at hour 4 Minimum Diurnal Average: 0.5 ppb at hour 21

Monthly Average: 0.47 ppb Percentiles: P_1 = 0.4 P_{10} = 0.4 Q_1 = 0.4 Median = 0.5 Q_3 = 0.5 P_{90} = 0.5 P_{99} = 0.6

Periods in Service:	1344
Periods of Valid Data:	1272
Periods of Invalid Data:	72
Periods of Calibration:	67
Percent Operational Time:	99.6

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.5	0.5	Z	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7
	0.5	0.5	SP	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
2-Feb	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
	0.5	0.5	0.5	SP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5		
3-Feb	0.5	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5
	0.5	0.5	0.5	0.5	SP	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
4-Feb	0.5	0.4	0.4	0.4	0.4	Z	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
	0.4	0.4	0.4	0.4	0.4	SP	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
5-Feb	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5
	SP	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
6-Feb	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.4	0.5
	0.5	SP	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5		
7-Feb	0.4	0.5	Z	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.7
	0.4	0.5	SP	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.4		
8-Feb	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
	0.5	0.5	0.5	SP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
9-Feb	0.5	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6
	0.5	0.5	0.5	0.5	SP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.6		
10-Feb	0.6	0.5	0.5	0.5	0.5	Z	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
	0.5	0.6	0.6	0.5	0.6	SP	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
11-Feb	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6
	SP	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
12-Feb	0.4	Z	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	C	C	C	C	C	C	0.4	0.4	0.4	0.4	0.4	0.4	--	0.5
	0.4	SP	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	C	C	C	C	C	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
13-Feb	0.4	0.4	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5
	0.4	0.4	SP	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.5		
14-Feb	0.5	0.4	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	0.5	0.5	0.5	SP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5		
15-Feb	0.5	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.7	0.6	0.5	0.7
	0.5	0.5	0.5	0.5	SP	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.5	0.6	0.7	0.6		

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Stony Mountain - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	0.6	0.6	0.5	0.5	0.5	Z	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6
	0.5	0.5	0.5	0.5	0.5	SP	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
17-Feb	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
	SP	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
18-Feb	0.4	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5
	0.4	SP	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5		
19-Feb	0.4	0.4	Z	0.6	0.4	0.4	0.4	0.4	0.4	0.4	M	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.6
	0.4	0.4	SP	0.4	0.4	0.4	0.4	0.4	0.4	M	M	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.5		
20-Feb	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	0.5	0.5	0.5	SP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
21-Feb	0.5	0.5	0.6	0.6	Z	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.7
	0.5	0.6	0.6	0.7	SP	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
22-Feb	0.5	0.5	0.5	0.4	0.5	Z	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	0.4	0.5	0.5	0.4	0.5	SP	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.5		
23-Feb	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
	SP	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
24-Feb	0.4	Z	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.5
	0.5	SP	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.4		
25-Feb	0.5	0.4	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	M	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
	0.4	0.5	SP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	M	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
26-Feb	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6
	0.5	0.5	0.5	SP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5		
27-Feb	0.5	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5
	0.5	0.5	0.5	0.5	SP	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.5		
28-Feb	0.5	0.5	0.5	0.5	0.7	Z	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.7
	0.5	0.5	0.5	0.6	0.6	SP	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4		
	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	Diurnal Average	
	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.7	0.6	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Stony Mountain - February 2026

Maximum Value: 0.7 ppb on Feb 7 14:00

Maximum Daily Average: 0.5 ppb on Feb 15

Minimum Value: 0.4 ppb on Feb 12 21:00

Minimum Daily Average: 0.4 ppb on Feb 4

Maximum Diurnal Average: 0.5 ppb at hour 4

Minimum Diurnal Average: 0.5 ppb at hour 21

Monthly Average: 0.47 ppb

Percentiles: P_1 = 0.4 P_{10} = 0.4 Q_1 = 0.4 Median = 0.5 Q_3 = 0.5 P_{90} = 0.5 P_{99} = 0.6

Hours in Service:	672
Hours of Data:	636
Hours of Missing Data:	36
Hours of Calibration:	33
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.5	0.5	Z	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
2-Feb	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
3-Feb	0.5	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5
4-Feb	0.4	0.4	0.4	0.4	0.4	Z	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
5-Feb	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
6-Feb	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.5
7-Feb	0.4	0.5	Z	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.6	0.7	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.4	0.5	0.7
8-Feb	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
9-Feb	0.5	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6
10-Feb	0.5	0.6	0.5	0.5	0.6	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
11-Feb	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5
12-Feb	0.4	Z	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.4	C	C	C	C	C	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
13-Feb	0.4	0.4	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5
14-Feb	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
15-Feb	0.5	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.7	0.6	0.5	0.7
16-Feb	0.6	0.5	0.5	0.5	0.5	Z	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6
17-Feb	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
18-Feb	0.4	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.4	0.5
19-Feb	0.4	0.4	Z	0.5	0.4	0.4	0.4	0.4	0.4	M	M	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
20-Feb	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
21-Feb	0.5	0.5	0.6	0.6	Z	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.6
22-Feb	0.5	0.5	0.5	0.4	0.5	Z	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
23-Feb	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
24-Feb	0.4	Z	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.5
25-Feb	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	M	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
26-Feb	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
27-Feb	0.5	0.5	0.5	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
28-Feb	0.5	0.5	0.5	0.6	0.7	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.7
	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	Diurnal Average	
	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.7	0.6	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

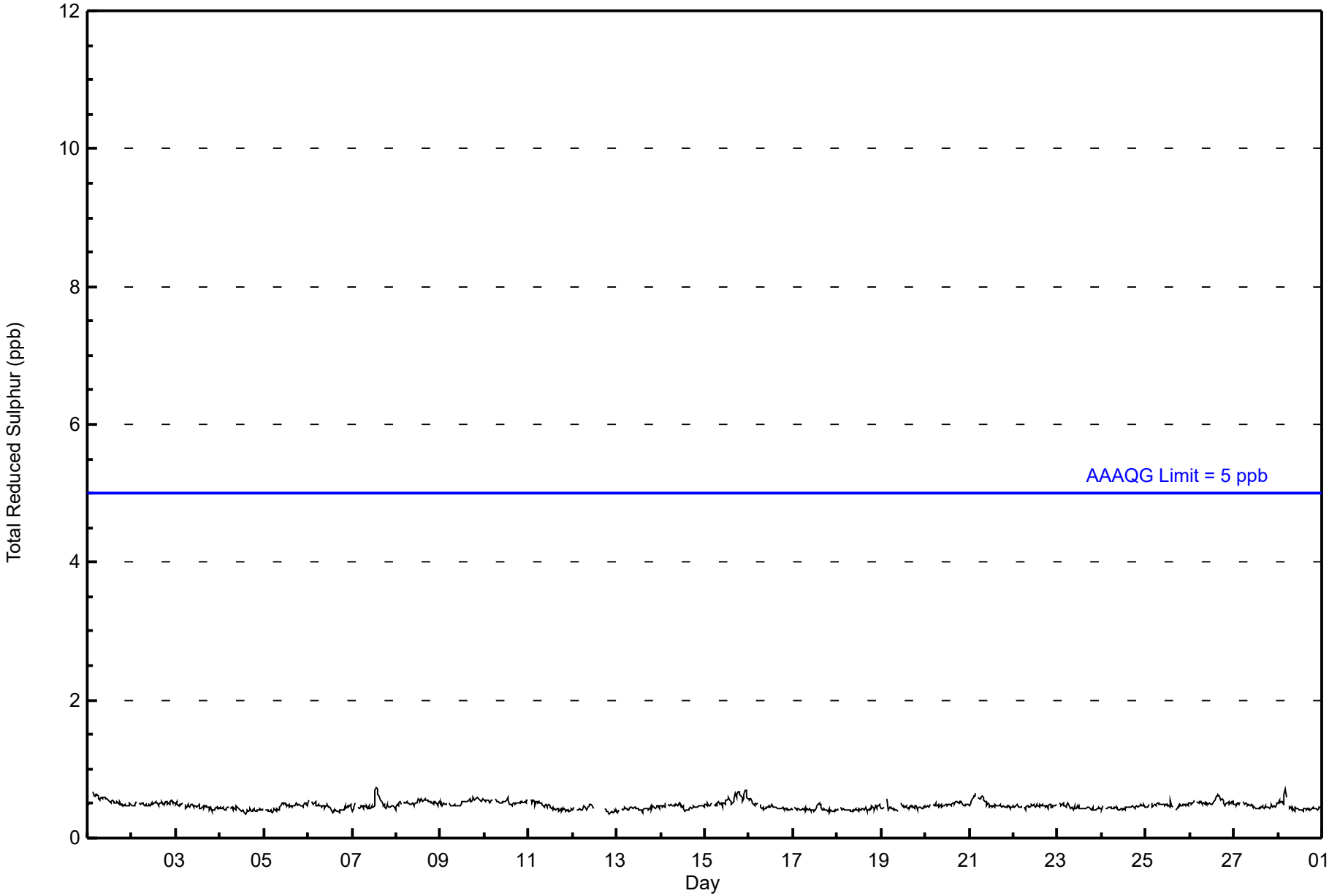
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Stony Mountain - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	636	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 636

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Stony Mountain - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	20	38	64	25	28	31	12	20	19	57	72	57	65	42	48	38	636
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	20	38	64	25	28	31	12	20	19	57	72	57	65	42	48	38	636

Total Number of Valid Hours: 636

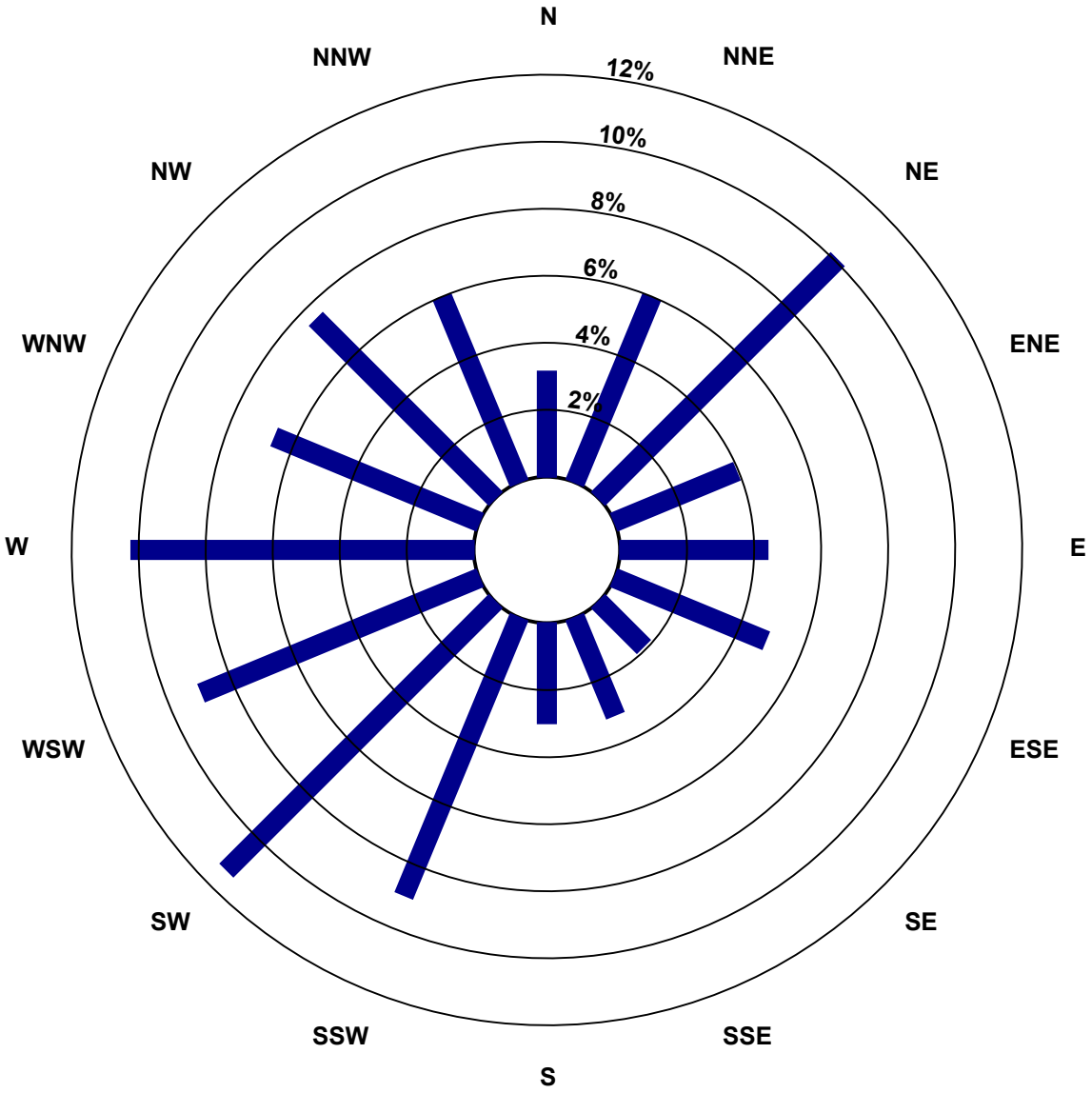
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Stony Mountain



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

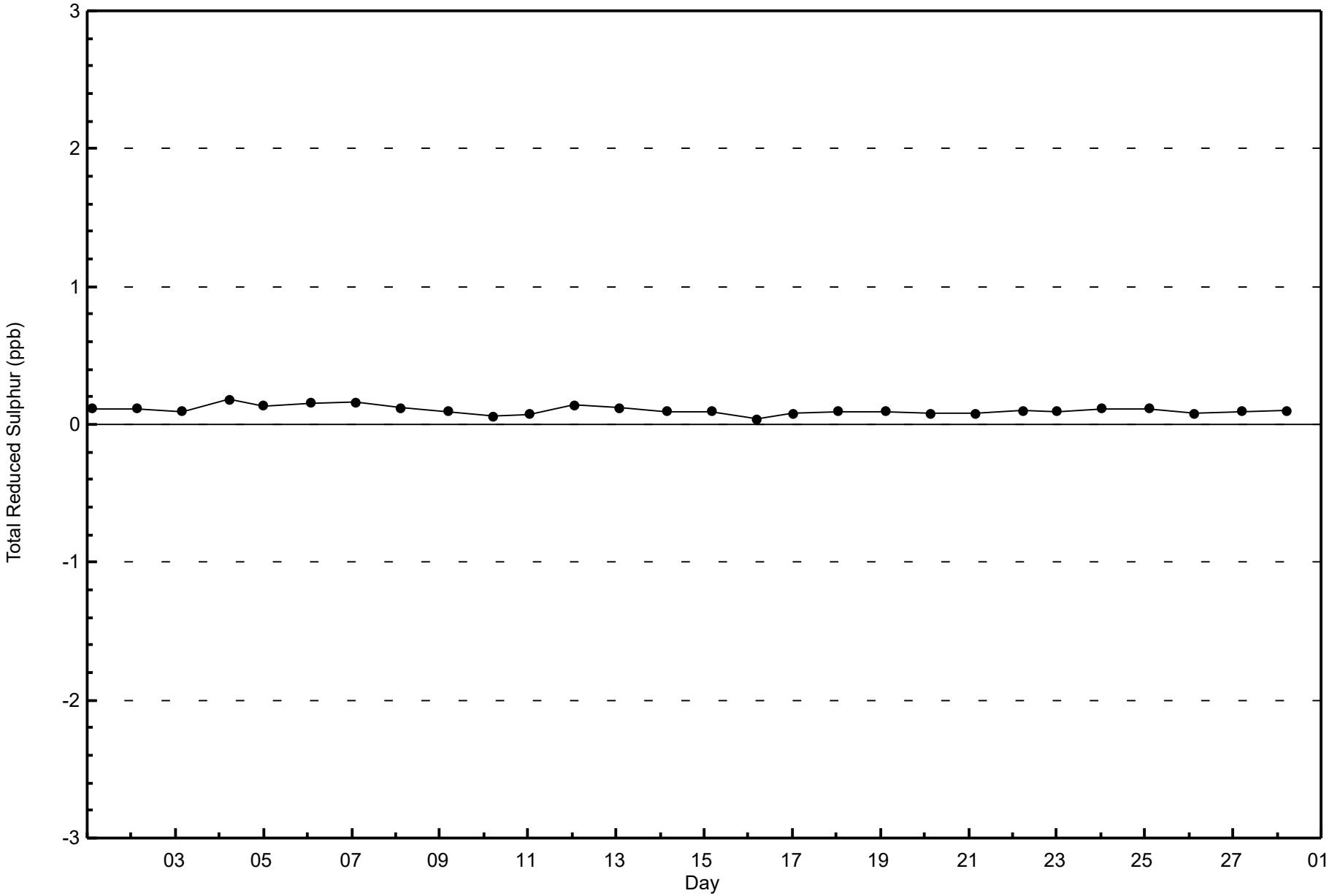
Total Number of Valid Hours: 636

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Stony Mountain - February 2026

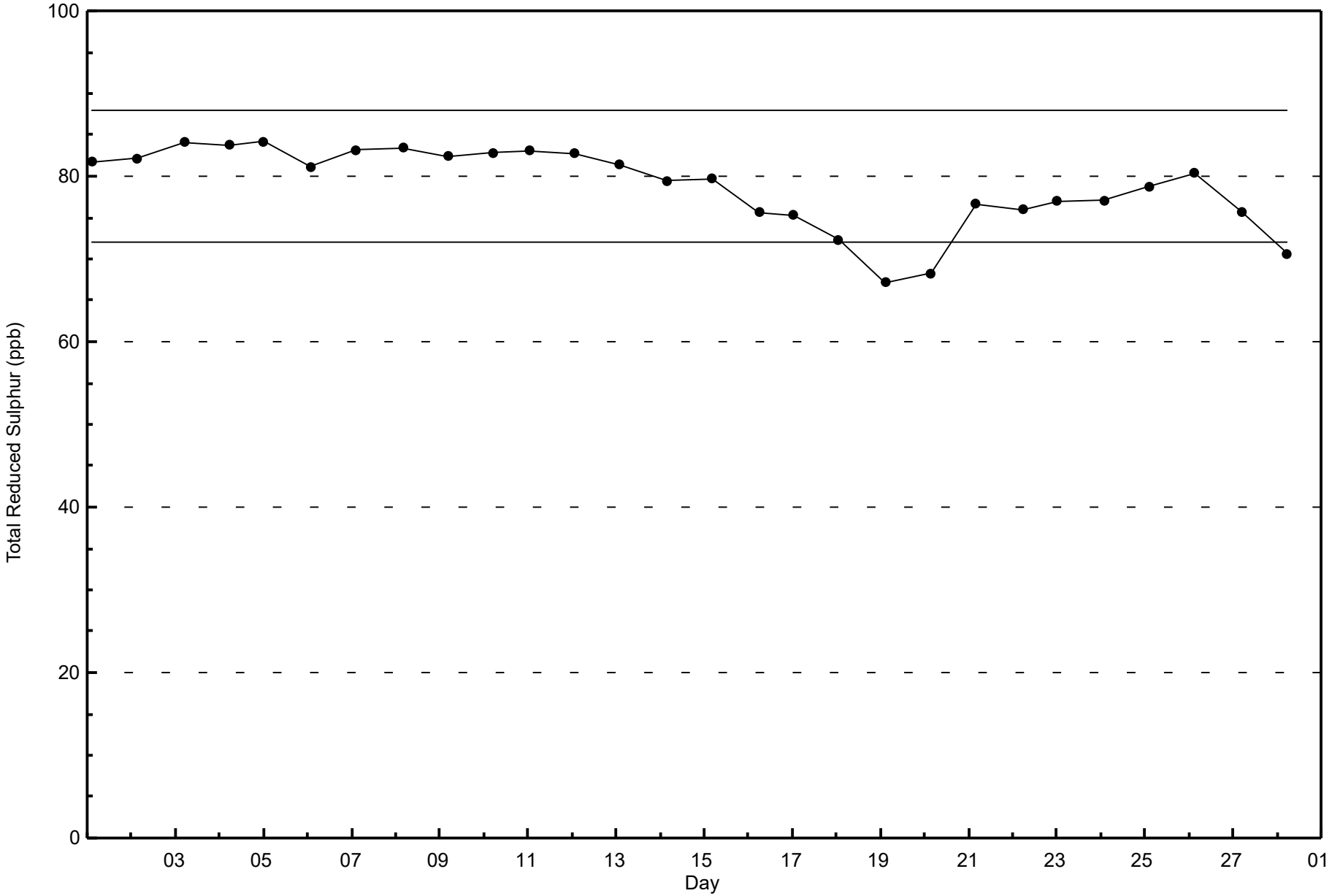


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Stony Mountain - February 2026

Maximum Value: 2.3 ppm on Feb 25 08:00

Maximum Daily Average: 2.2 ppm on Feb 26

Minimum Value: 2.0 ppm on Feb 14 02:00

Minimum Daily Average: 2.0 ppm on Feb 16

Maximum Diurnal Average: 2.1 ppm at hour 15

Minimum Diurnal Average: 2.1 ppm at hour 22

Monthly Average: 2.10 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.0 Median = 2.1 Q_3 = 2.1 P_{90} = 2.2 P_{99} = 2.2

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1
2-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
3-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1
4-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
5-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1
6-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
7-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
8-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.0	2.1	2.1
9-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
10-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
11-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
12-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
13-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
14-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
15-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1
16-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
17-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	C	C	C	C	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.2
18-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2
19-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
20-Feb	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
21-Feb	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.2
22-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
23-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2
24-Feb	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
25-Feb	2.2	Z	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	M	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
26-Feb	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
27-Feb	2.2	2.2	2.2	Z	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.2
28-Feb	2.2	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	Diurnal Average	
	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	Diurnal Maximum	

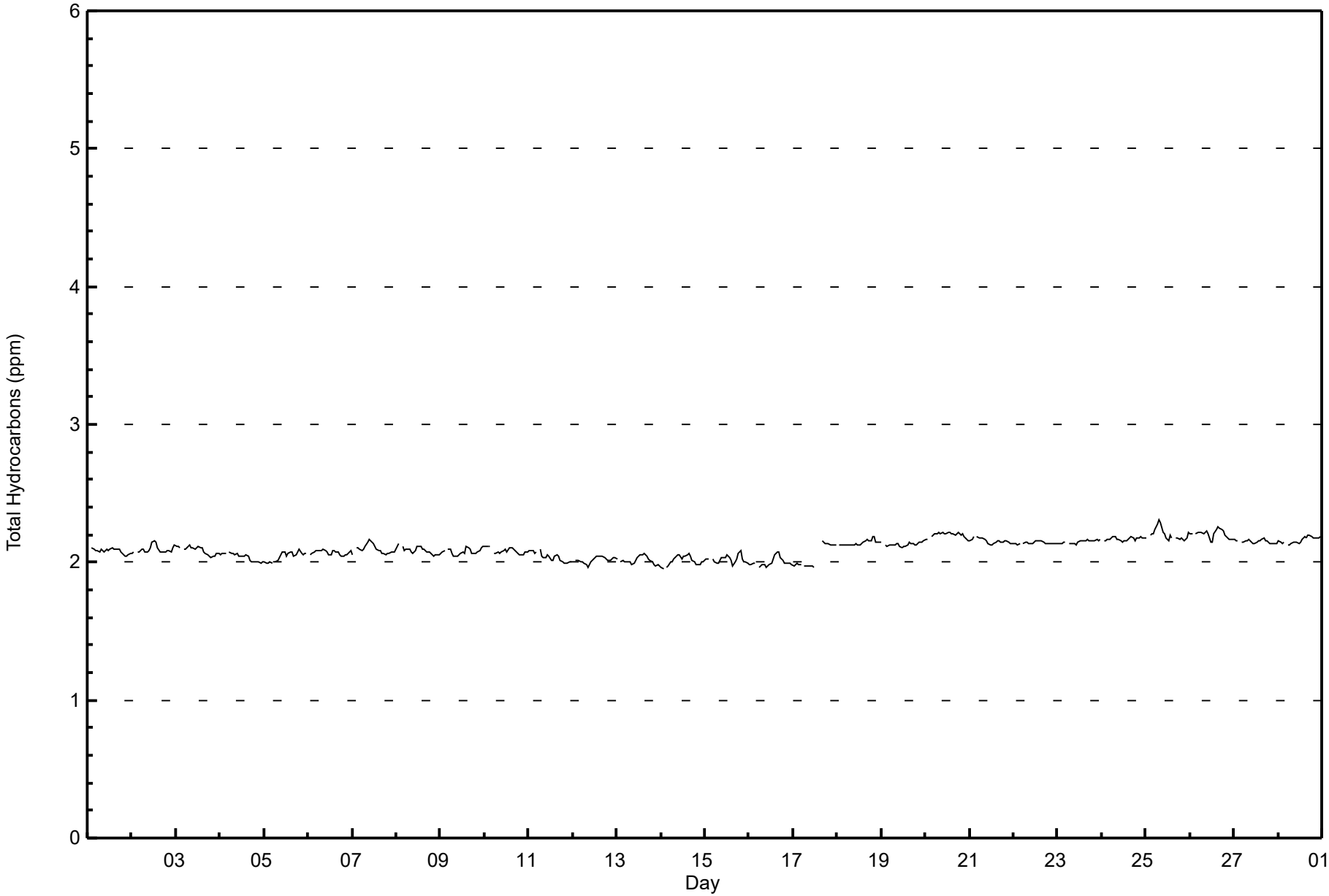
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Total Hydrocarbons (THC) - ppm

Stony Mountain - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	166	25.98	25.98
2.1 - 3.0	473	74.02	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Stony Mountain - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	3	11	15	7	4	0	0	3	5	5	24	30	36	11	9	3	166
2.1 - 3.0	16	21	49	18	24	35	12	16	15	51	54	28	30	30	40	34	473
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	19	32	64	25	28	35	12	19	20	56	78	58	66	41	49	37	639

Total Number of Valid Hours: 639

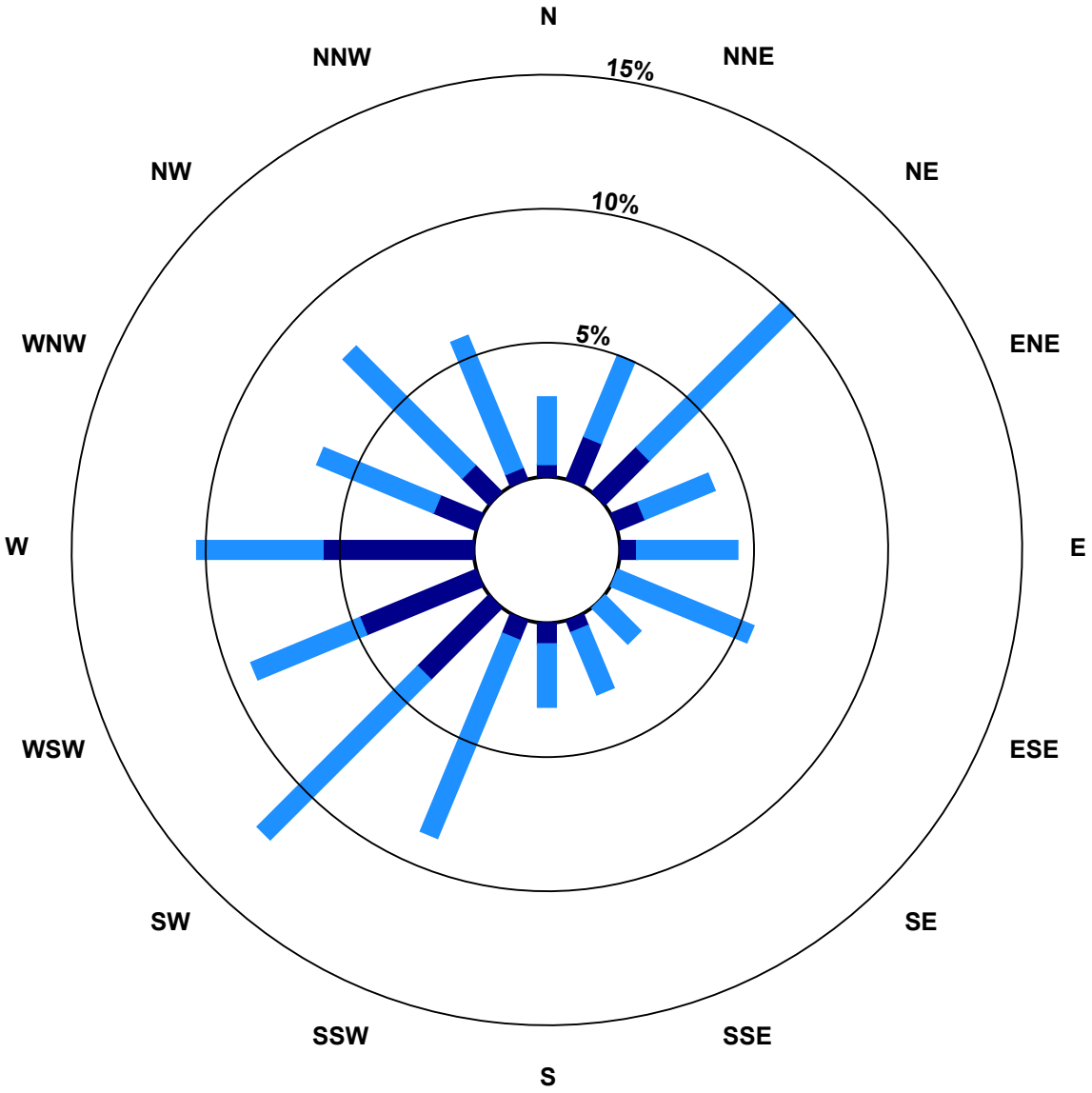
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Stony Mountain



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

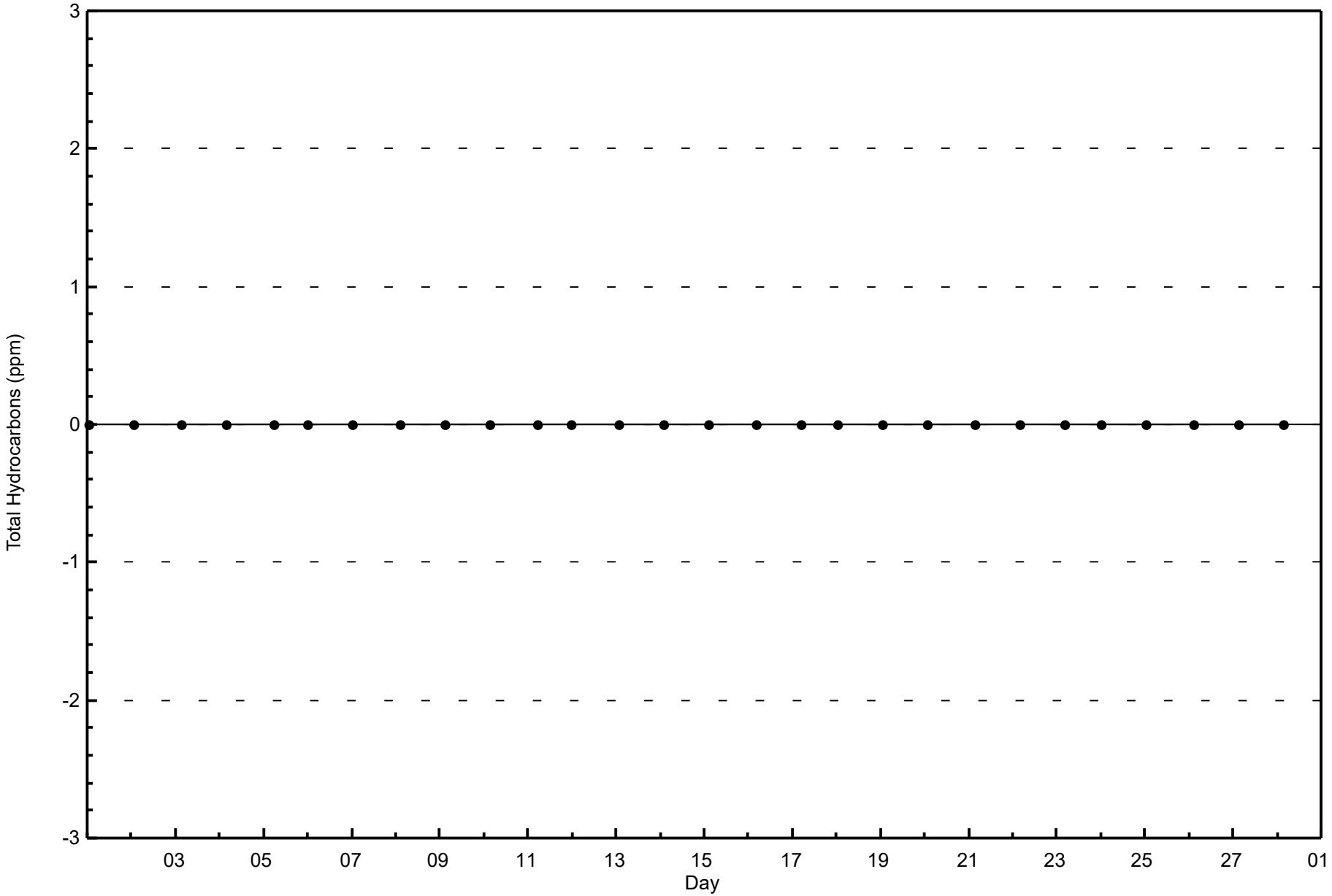
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Stony Mountain - February 2026

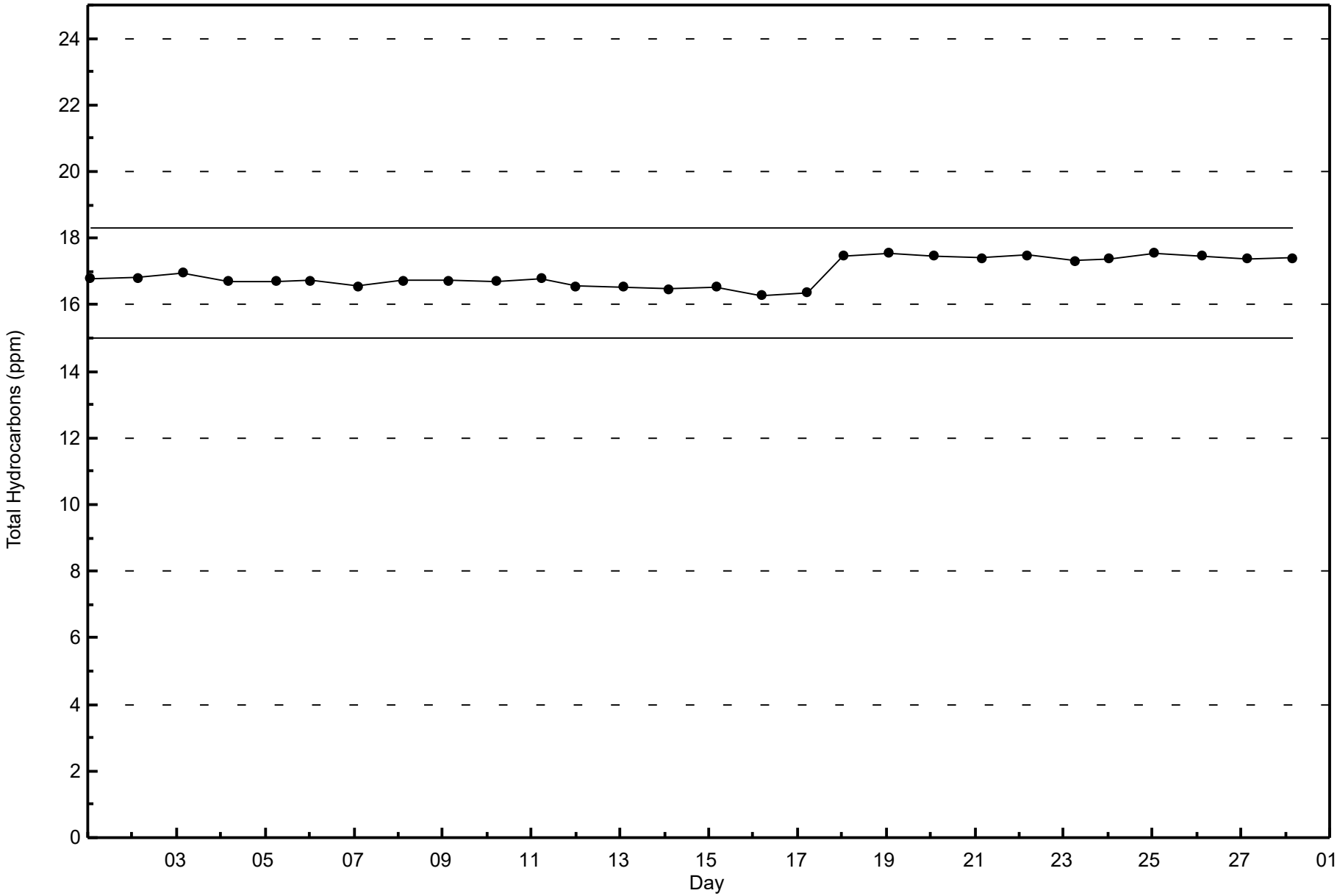


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Stony Mountain - February 2026

Maximum Value: 0.034 ppm on Feb 18 21:00

Maximum Daily Average: 0.003 ppm on Feb 18

Minimum Value: 0.000 ppm on Feb 1 01:00

Minimum Daily Average: 0.000 ppm on Feb 1

Maximum Diurnal Average: 0.001 ppm at hour 21

Minimum Diurnal Average: 0.000 ppm at hour 1

Monthly Average: 0.000 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.0 P_{99} = 0.0

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000	0.000	0.000	0.001	0.012
3-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9-Feb	0.000	0.000	0.000	Z	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
10-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	C	C	C	C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.013	0.034	0.000	0.000	0.000	0.003	0.034
19-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	M	0.000	0.000	0.005	0.007	0.007	0.006	0.000	0.000	0.001	0.007
26-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	Diurnal Average	
	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.013	0.034	0.006	0.000	0.000	Diurnal Maximum	

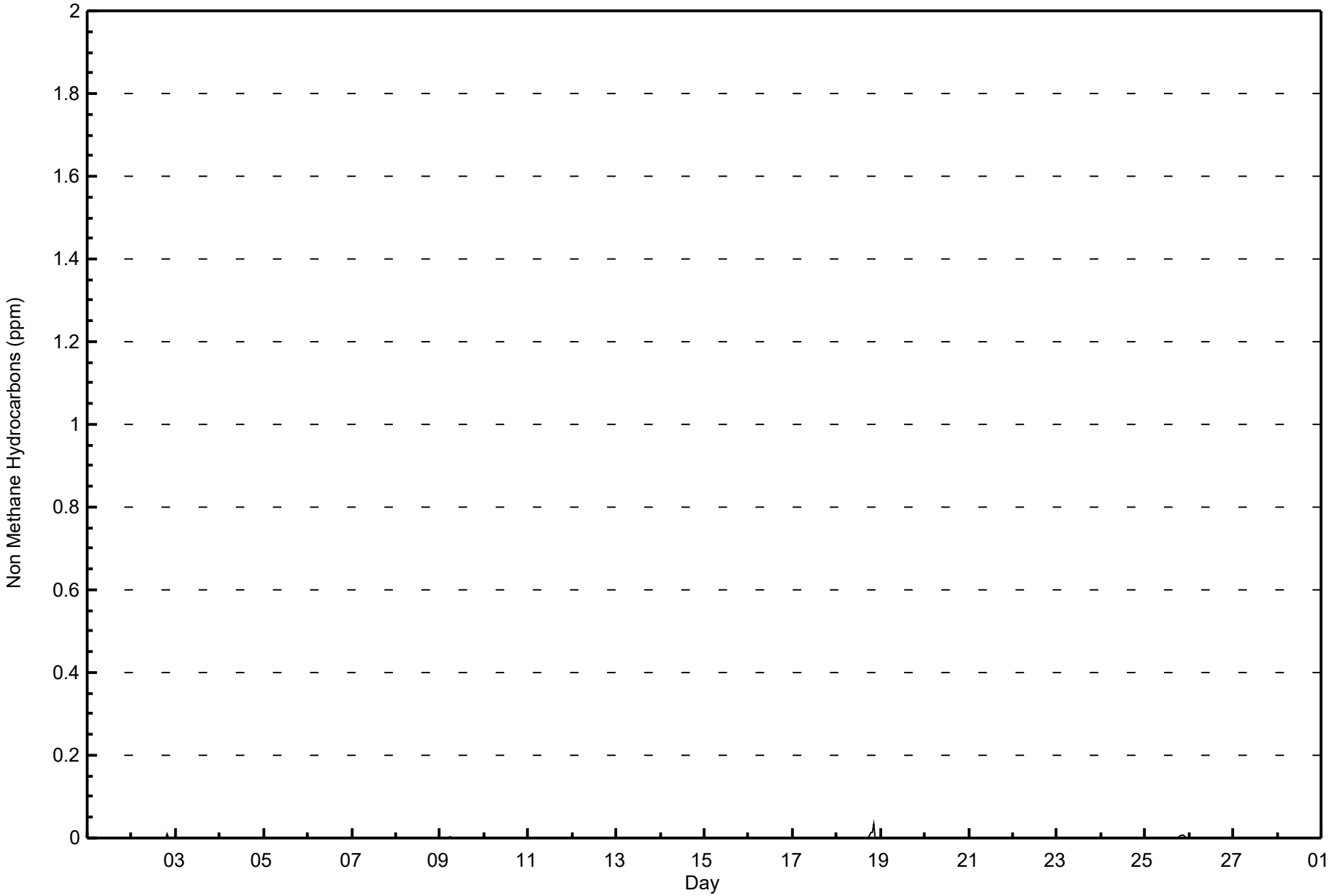
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Stony Mountain - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	632	98.90	98.90
0.006 - 0.05	7	1.10	100.00
0.06 - 0.1	0	0.00	100.00
> 0.1	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Stony Mountain - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	19	32	62	25	28	35	12	19	20	56	78	58	66	40	47	35	632
0.006 - 0.05	0	0	2	0	0	0	0	0	0	0	0	0	0	1	2	2	7
0.06 - 0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	19	32	64	25	28	35	12	19	20	56	78	58	66	41	49	37	639

Total Number of Valid Hours: 639

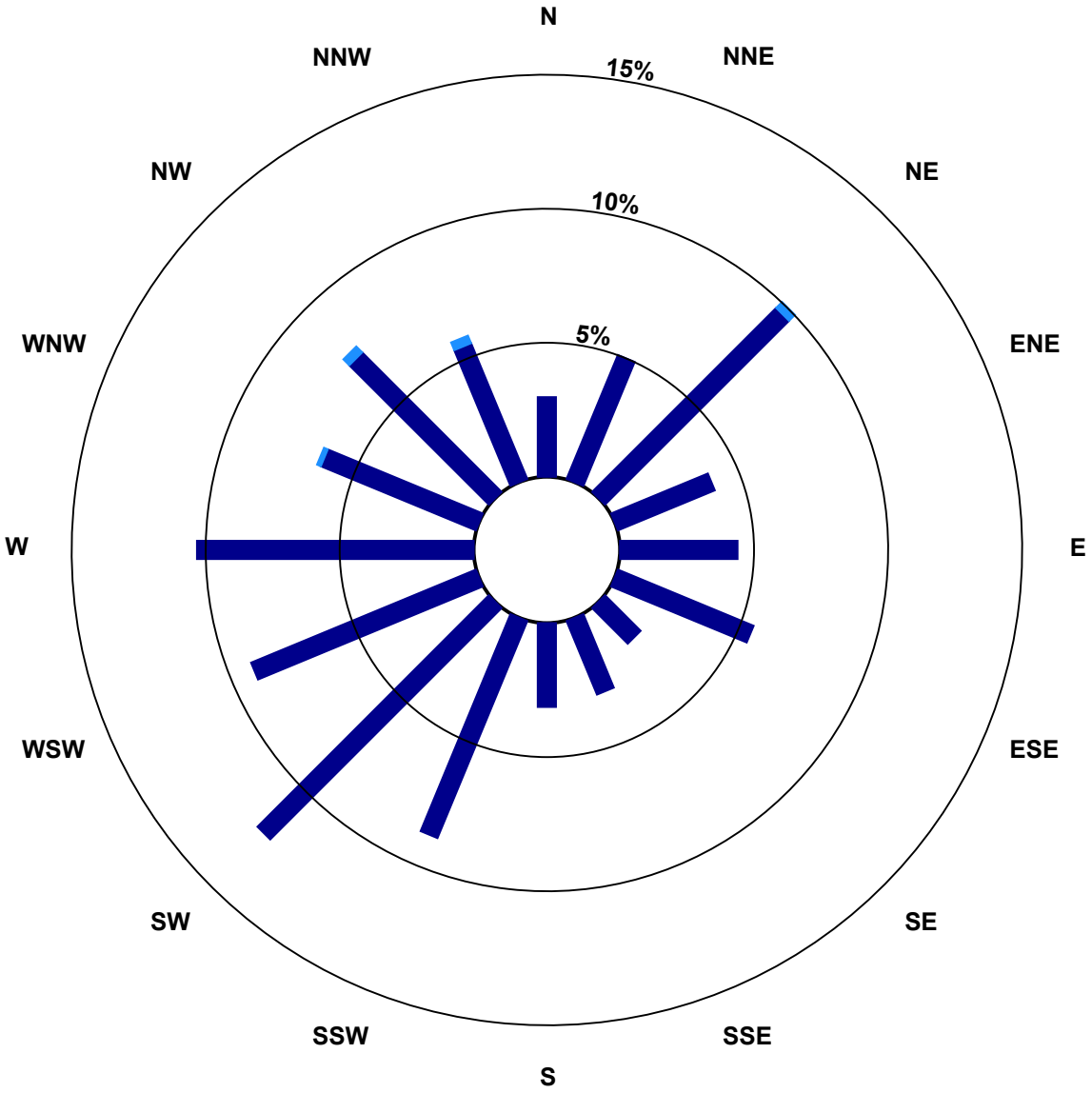
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Stony Mountain



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

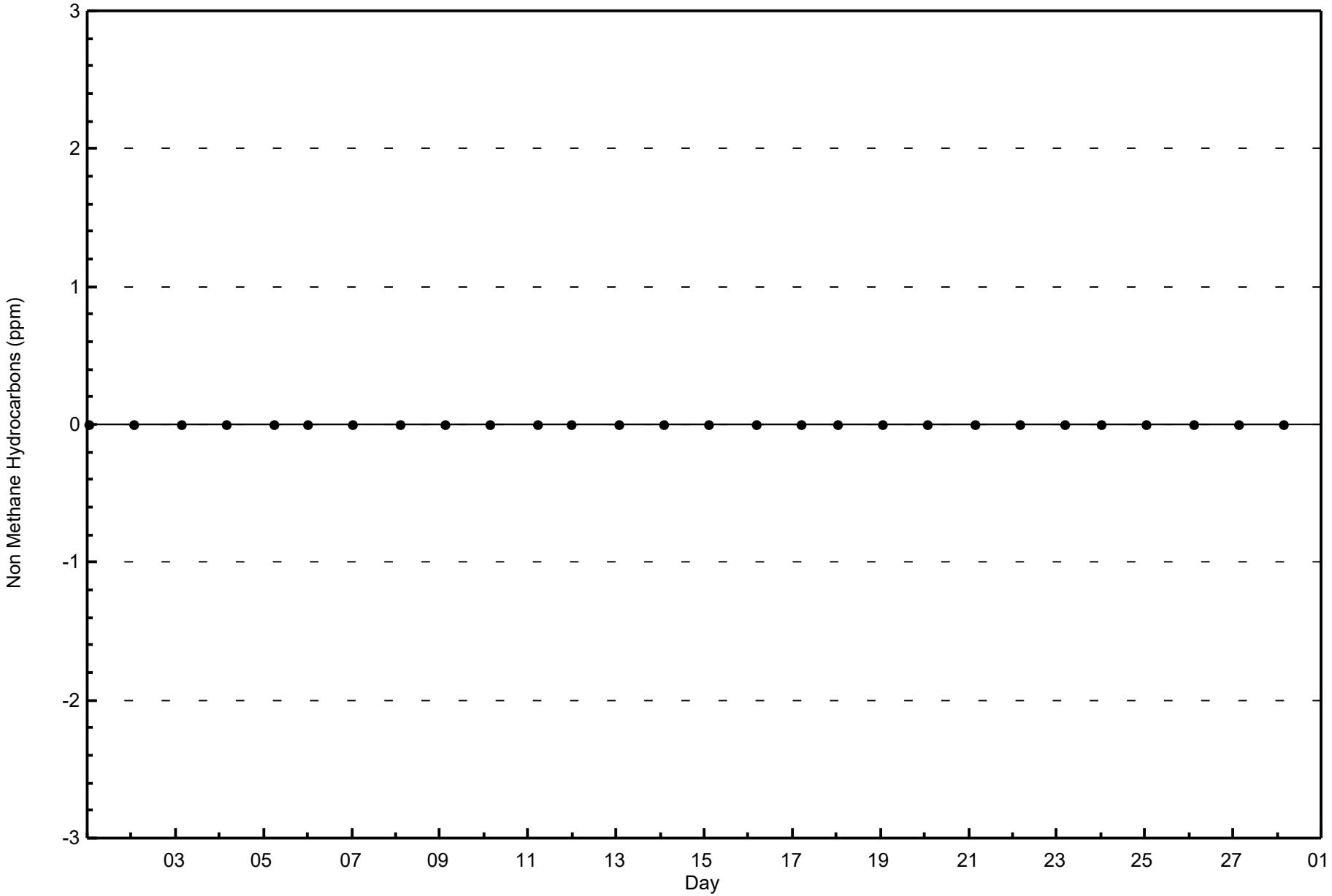
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Stony Mountain - February 2026

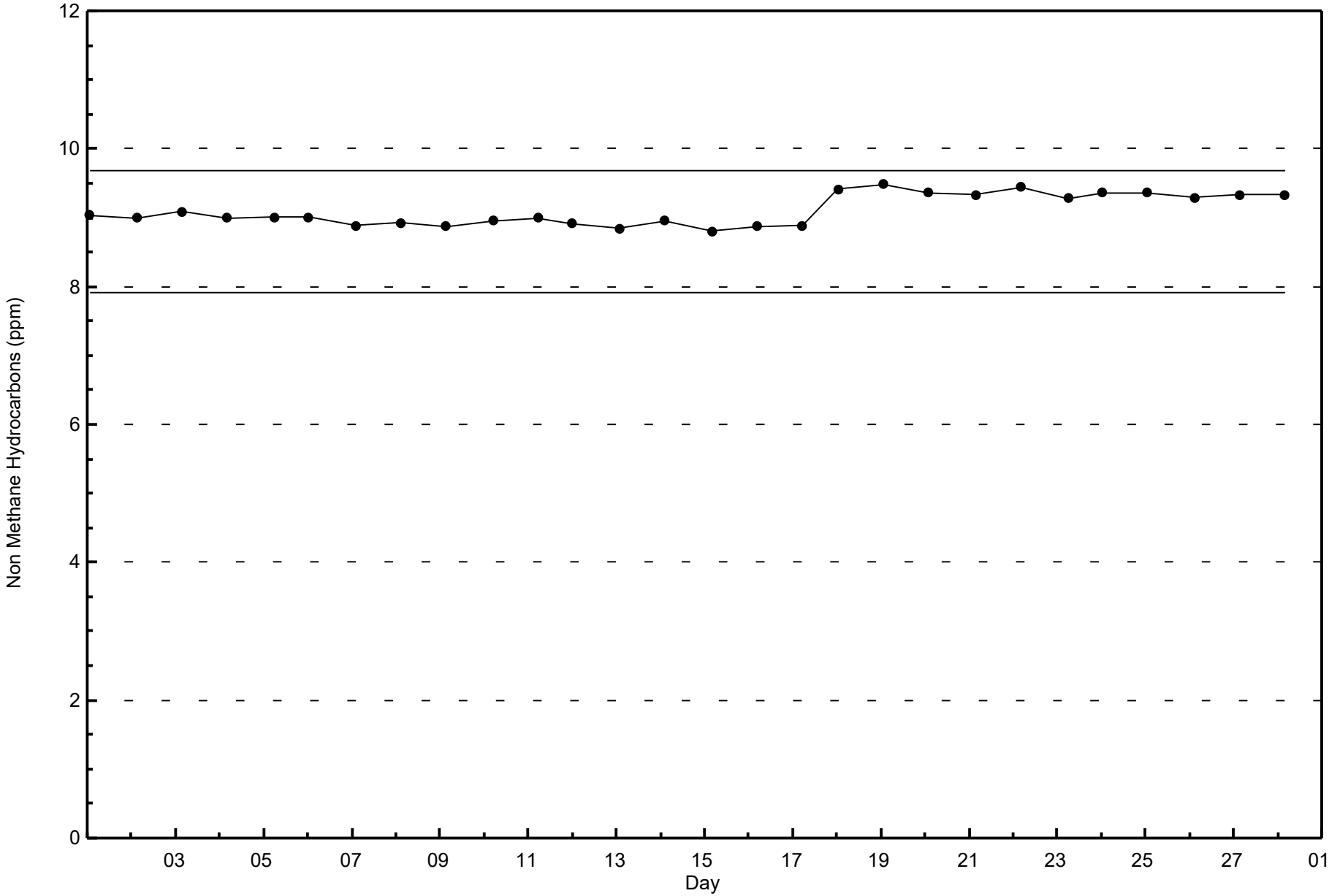


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Stony Mountain - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 2.3 ppm on Feb 25 08:00

Maximum Daily Average: 2.2 ppm on Feb 26

Minimum Value: 2.0 ppm on Feb 14 02:00

Minimum Daily Average: 2.0 ppm on Feb 16

Maximum Diurnal Average: 2.1 ppm at hour 15

Minimum Diurnal Average: 2.1 ppm at hour 22

Monthly Average: 2.10 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.0 Median = 2.1 Q_3 = 2.1 P_{90} = 2.2 P_{99} = 2.2

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1
2-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
3-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1
4-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
5-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1
6-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
7-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
8-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.0	2.1	2.1
9-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
10-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
11-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
12-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
13-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
14-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
15-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1
16-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
17-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	C	C	C	C	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.2
18-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2
19-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
20-Feb	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
21-Feb	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.2
22-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
23-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2
24-Feb	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
25-Feb	2.2	Z	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	M	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.3
26-Feb	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
27-Feb	2.2	2.2	2.2	Z	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.2
28-Feb	2.2	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	Diurnal Average	
	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	Diurnal Maximum	

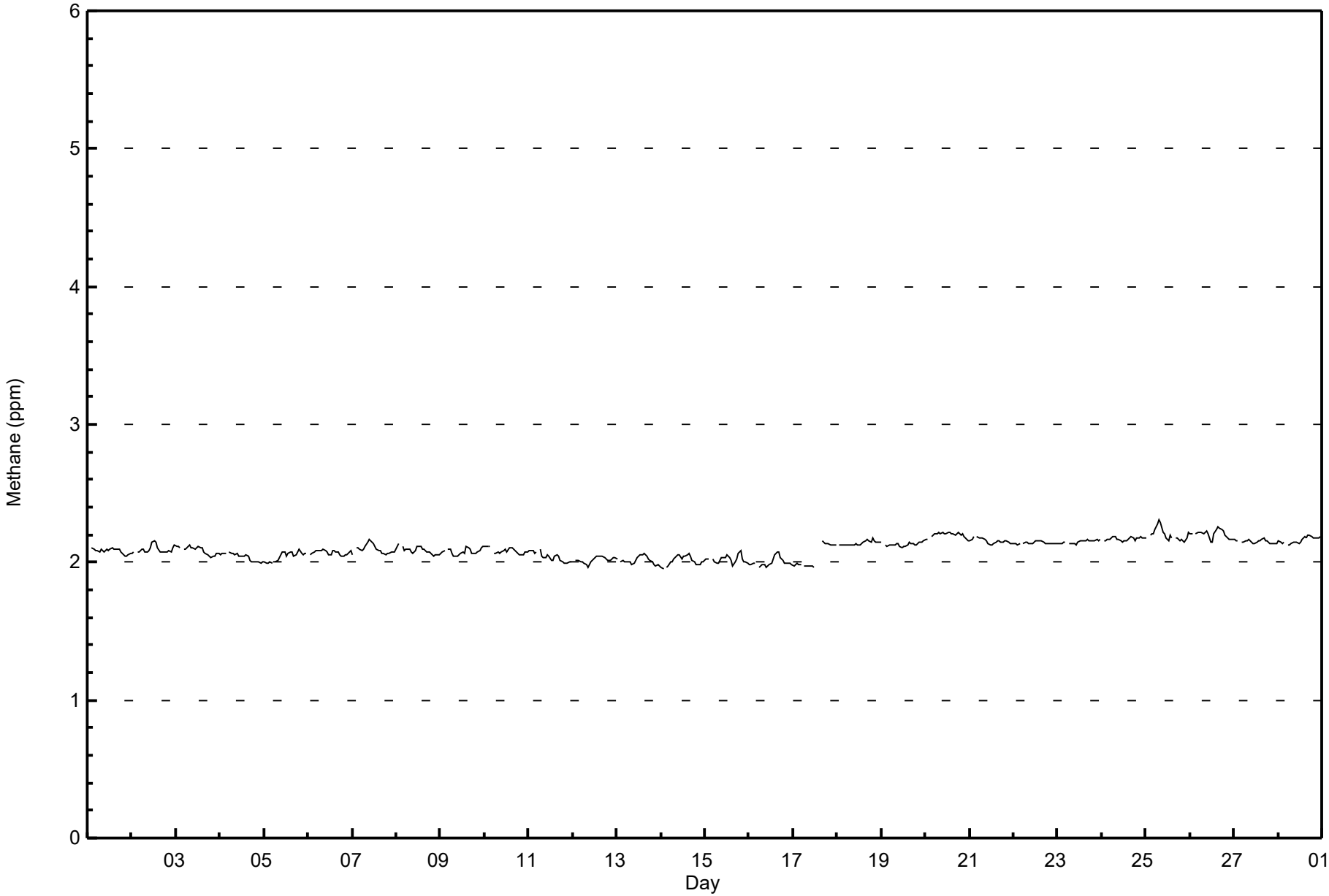
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Stony Mountain - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	166	25.98	25.98
2.1 - 3.0	473	74.02	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Stony Mountain - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	3	11	15	7	4	0	0	3	5	5	24	30	36	11	9	3	166
2.1 - 3.0	16	21	49	18	24	35	12	16	15	51	54	28	30	30	40	34	473
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	19	32	64	25	28	35	12	19	20	56	78	58	66	41	49	37	639

Total Number of Valid Hours: 639

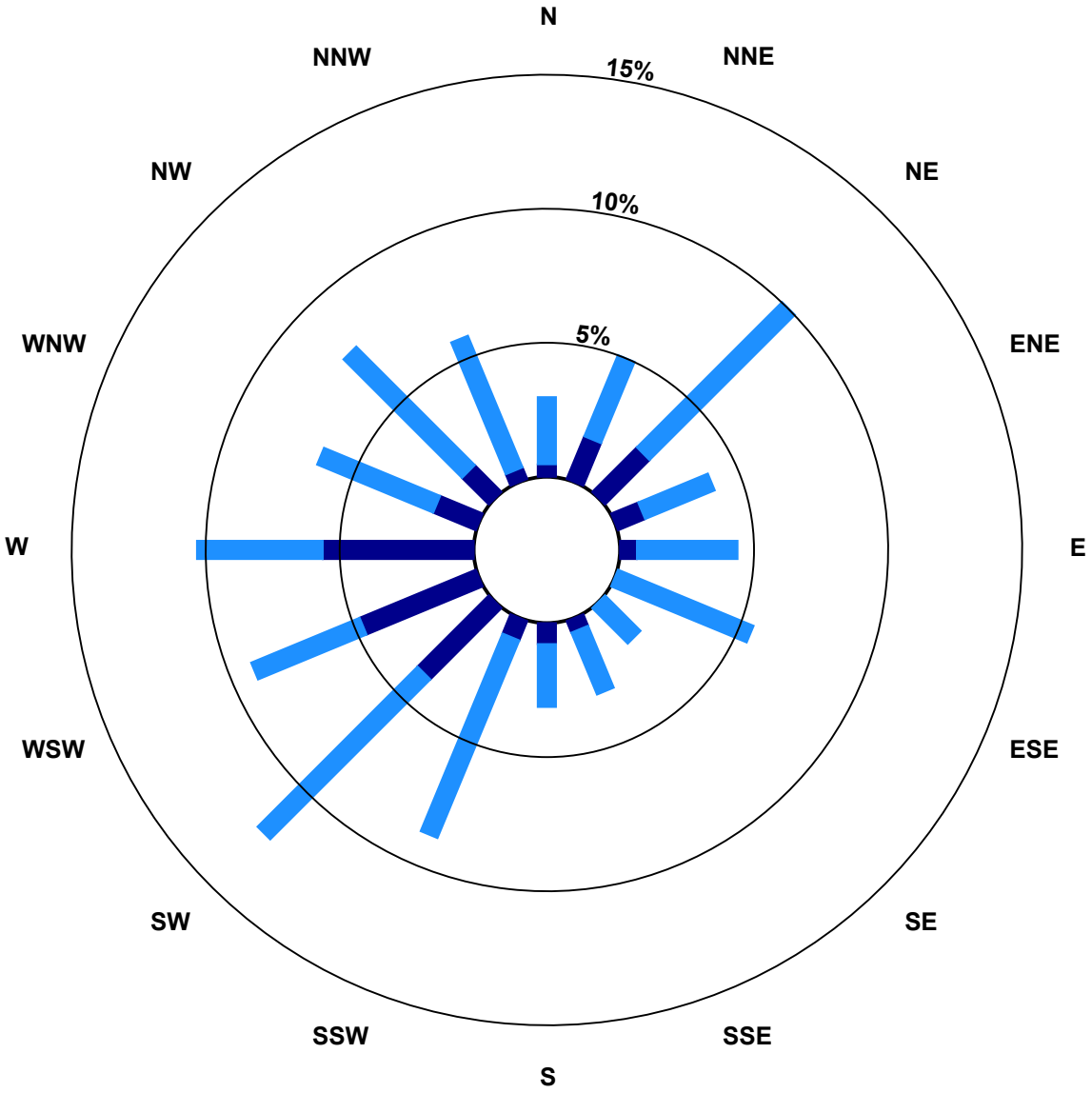
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Stony Mountain



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

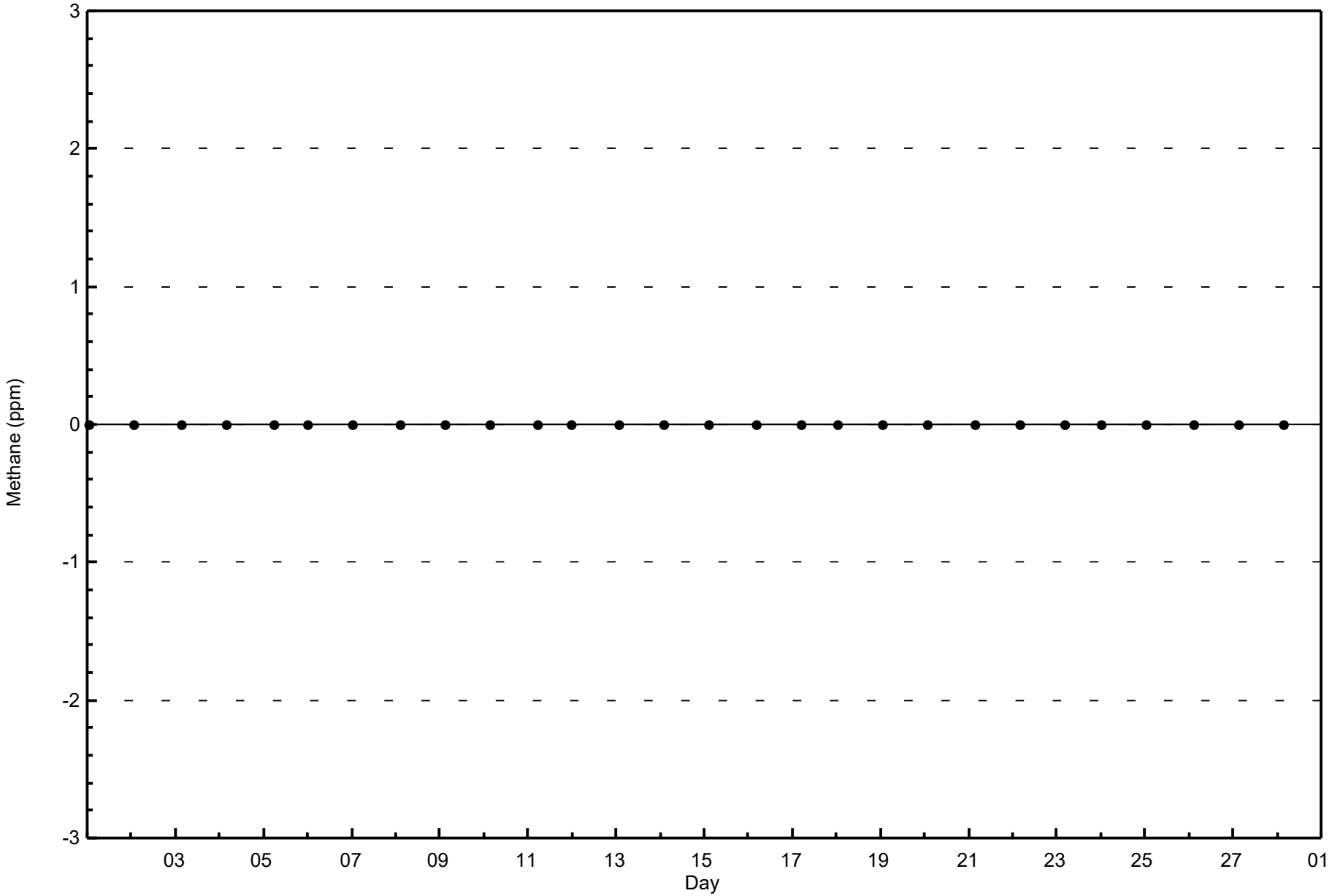
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Stony Mountain - February 2026

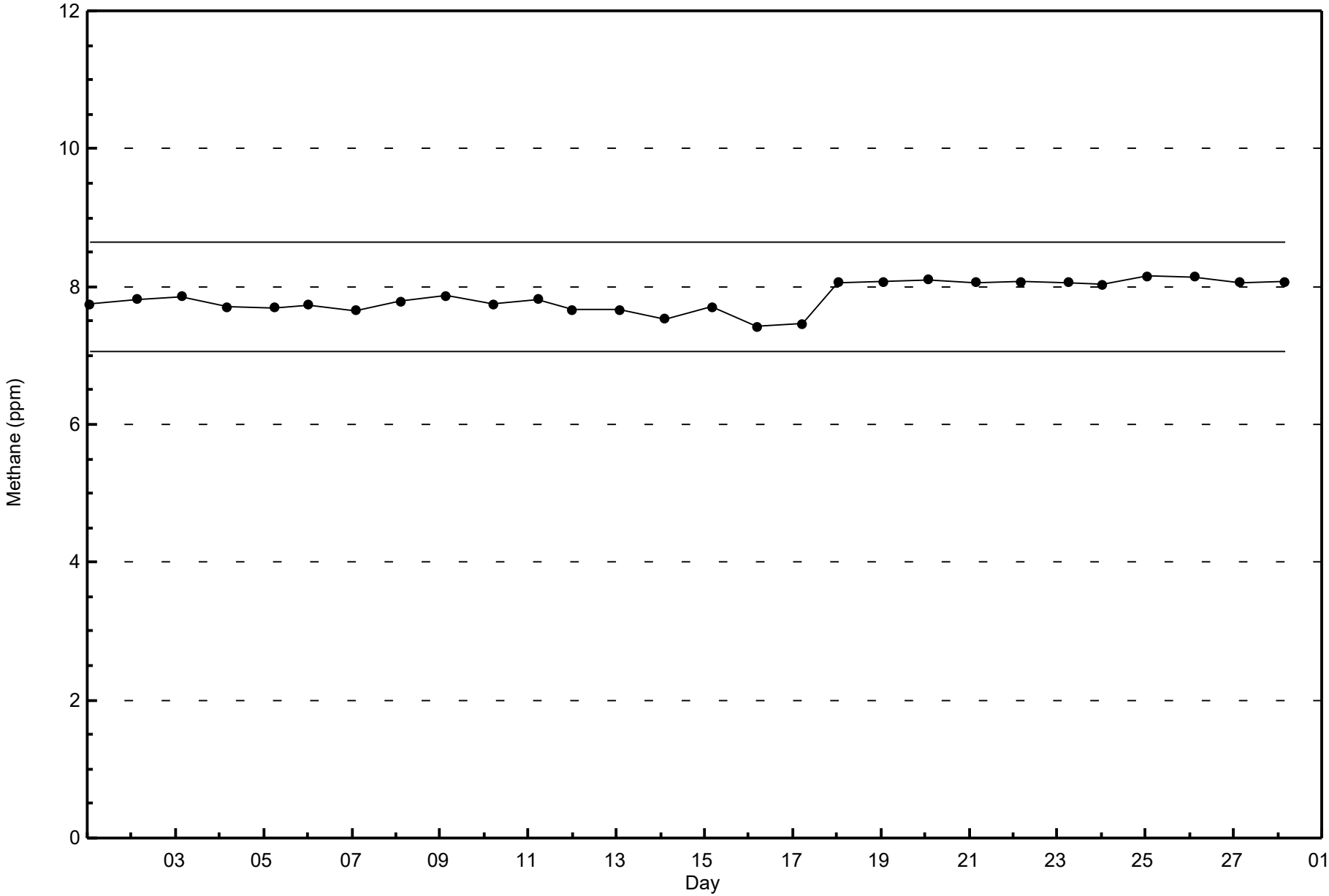


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Stony Mountain - February 2026

Maximum Value: 3.5 ppb on Feb 7 14:00

Maximum Daily Average: 0.7 ppb on Feb 20

Minimum Value: 0.0 ppb on Feb 1 01:00

Minimum Daily Average: 0.0 ppb on Feb 3

Maximum Diurnal Average: 0.7 ppb at hour 13

Minimum Diurnal Average: 0.0 ppb at hour 21

Monthly Average: 0.17 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.1 P_{90} = 0.5 P_{99} = 1.8

Hours in Service:	672
Hours of Data:	590
Hours of Missing Data:	82
Hours of Calibration:	33
Percent Operational Time:	92.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.7	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
2-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
3-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
4-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	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	0.2
5-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.3	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
6-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.0	1.1	0.7	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1
7-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.9	0.6	1.2	2.4	3.5	1.5	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.5
8-Feb	0.0	0.1	0.0	0.1	0.0	Z	0.1	0.0	0.1	0.2	0.4	0.4	0.6	0.7	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7
9-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.1	2.0	1.7	1.3	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.0
10-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.3	1.5	1.6	1.0	0.5	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.6
11-Feb	0.1	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
12-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.2
13-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
15-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.0	0.4	0.1	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0
16-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.1	0.9	1.5	1.5	1.1	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5
17-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.2	0.5	0.9	0.8	0.7	0.7	0.9	1.0	0.7	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.3	1.0
19-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.2	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
20-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.1	0.6	1.7	2.7	2.9	2.9	1.8	1.5	0.9	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.9
21-Feb	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
22-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
23-Feb	UO	UO	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	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	0.2
24-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.3	0.5	0.6	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
25-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.3	0.3	0.2	0.1	C	C	C	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	--	0.3
26-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.7	1.2	1.1	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2
27-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.9	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9
28-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.5	0.7	0.6	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	Diurnal Average	
	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.7	1.7	2.7	2.9	2.9	3.5	1.5	1.1	0.9	0.2	0.0	0.0	0.0	0.1	0.1	0.0	Diurnal Maximum	

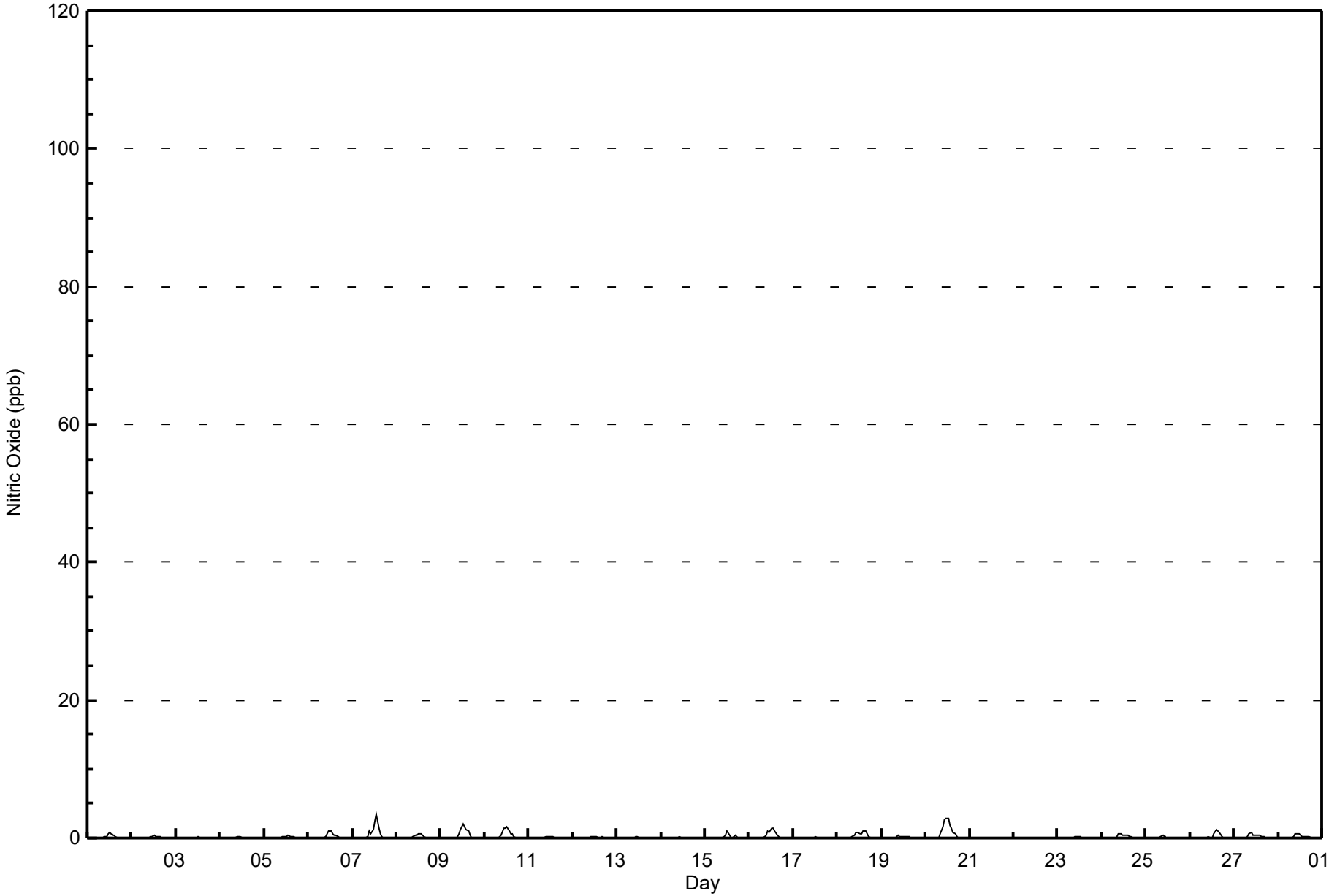
Z - zerospan C - Calibration UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Stony Mountain - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	590	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 590

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Stony Mountain - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	20	30	49	21	26	16	9	20	19	56	80	55	64	40	48	37	590
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	20	30	49	21	26	16	9	20	19	56	80	55	64	40	48	37	590

Total Number of Valid Hours: 590

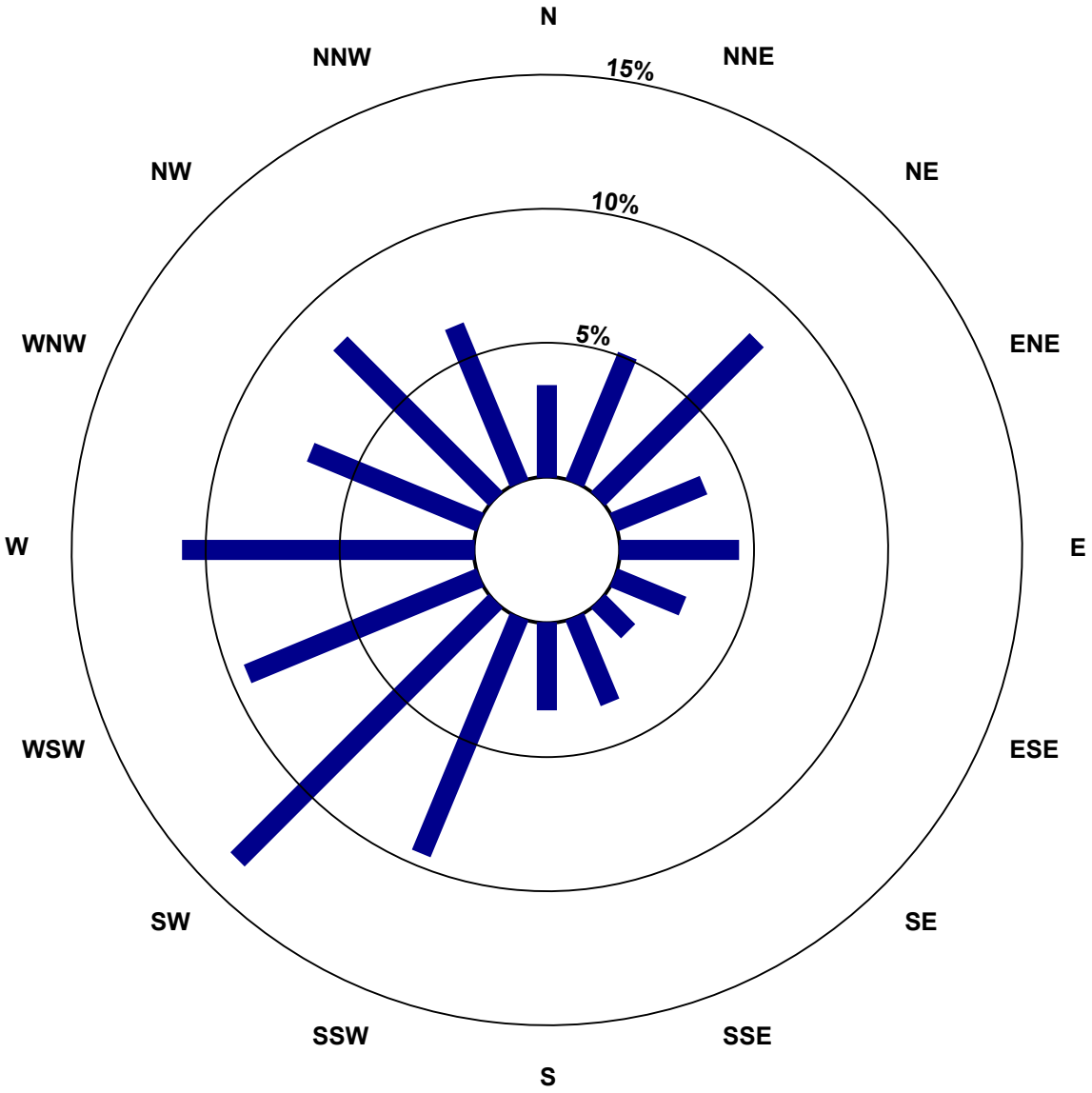
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Stony Mountain



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

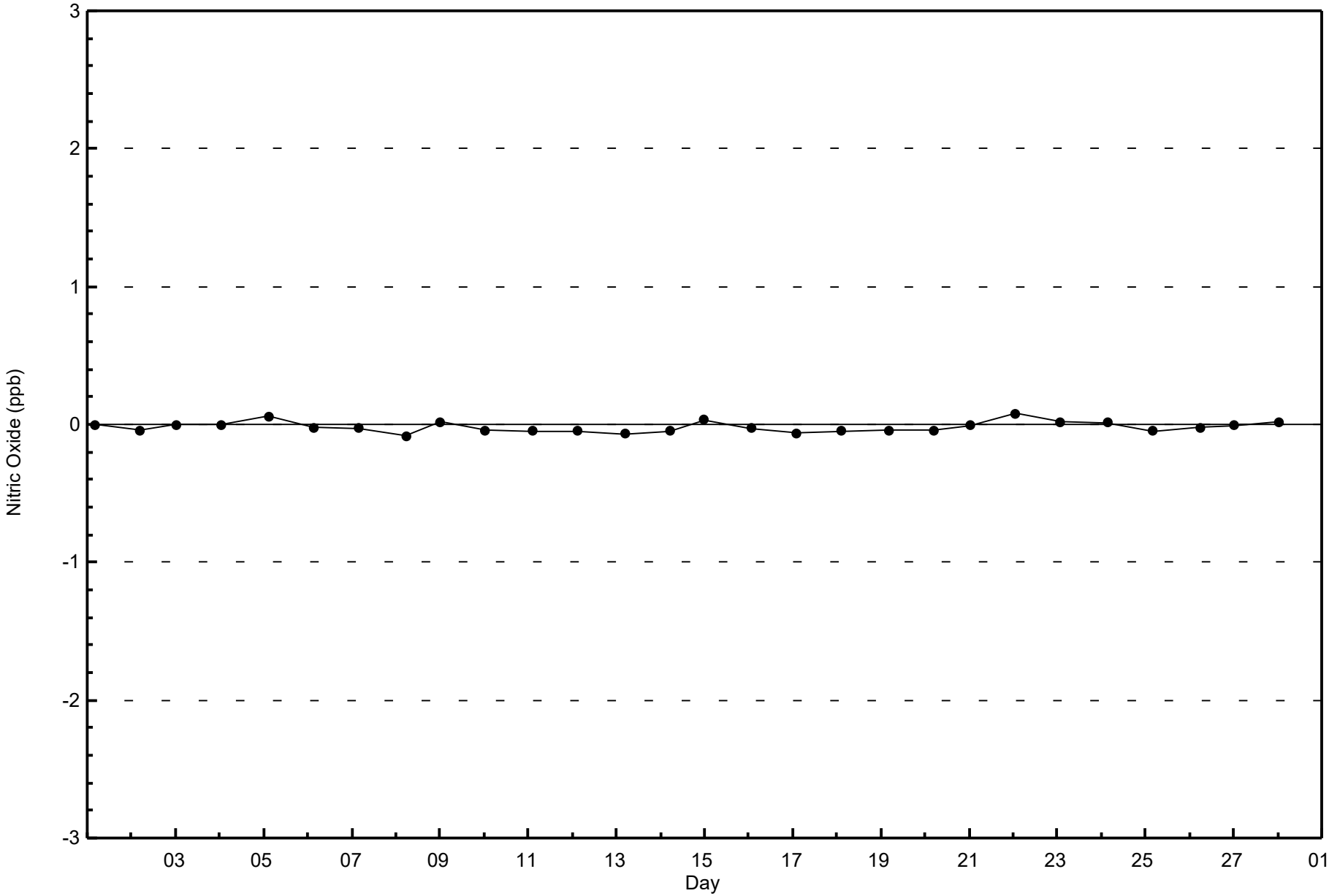
Total Number of Valid Hours: 590

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Stony Mountain - February 2026

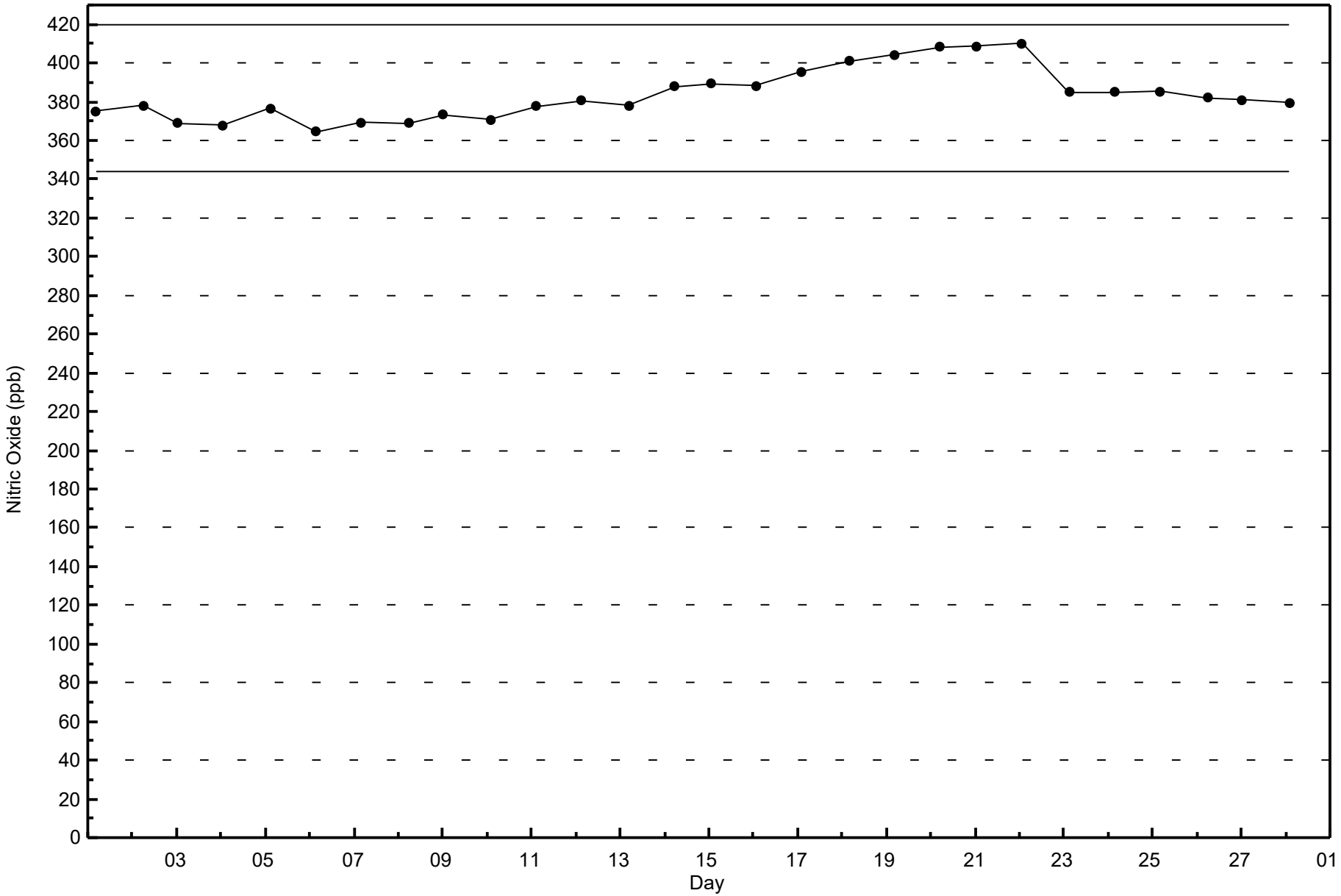


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Stony Mountain - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 12.1 ppb on Feb 28 04:00 Maximum Daily Average: 5.4 ppb on Feb 20

Minimum Value: 0.2 ppb on Feb 17 11:00 Minimum Daily Average: 0.4 ppb on Feb 17
Maximum Diurnal Average: 2.4 ppb at hour 4 Minimum Diurnal Average: 1.5 ppb at hour 11
Monthly Average: 1.91 ppb Percentiles: P_1 = 0.3 P_{10} = 0.5 Q_1 = 0.7 Median = 1.4 Q_3 = 2.7 P_{90} = 3.9 P_{99} = 6.8

Hours in Service:	672
Hours of Data:	590
Hours of Missing Data:	82
Hours of Calibration:	33
Percent Operational Time:	92.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.8	1.1	4.5	5.0	Z	3.7	3.2	3.1	3.0	3.0	2.7	3.3	3.9	2.6	2.9	2.6	2.6	2.0	2.0	1.5	1.0	1.1	1.2	1.1	2.5	5.0
2-Feb	1.0	1.2	1.2	1.4	1.8	Z	1.5	1.1	1.4	1.5	1.8	1.9	2.0	2.0	1.9	1.8	2.0	2.0	2.0	2.0	2.3	2.1	2.4	2.1	1.8	2.4
3-Feb	Z	1.7	1.2	0.9	0.9	0.8	1.0	1.1	0.9	1.0	0.7	0.7	0.9	0.6	0.6	0.6	1.1	1.1	0.7	0.9	1.3	1.2	2.7	3.1	1.1	3.1
4-Feb	1.7	Z	2.0	2.1	2.3	2.3	2.4	2.4	2.3	2.1	1.7	1.3	0.9	0.9	1.0	0.8	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	1.3	2.4
5-Feb	0.7	0.6	Z	0.6	0.6	0.8	0.8	0.7	0.9	1.6	2.2	2.1	1.2	1.2	1.4	2.0	2.2	3.6	2.5	2.7	2.6	2.3	3.6	3.9	1.8	3.9
6-Feb	3.7	3.6	3.9	Z	4.1	3.6	3.3	3.2	2.9	3.1	2.9	2.4	2.1	1.6	1.5	1.8	1.9	2.0	2.6	2.7	3.2	3.2	3.2	2.7	2.8	4.1
7-Feb	1.2	3.1	3.1	2.9	Z	2.6	2.1	2.3	2.2	3.6	2.2	2.5	4.6	6.7	5.1	4.3	3.7	2.8	2.2	1.8	1.8	1.5	1.4	1.3	2.8	6.7
8-Feb	2.9	3.8	3.7	2.6	2.6	Z	2.8	2.5	2.4	2.5	2.5	2.4	2.4	2.4	2.4	2.1	2.1	2.1	1.8	1.5	1.4	1.2	0.8	0.7	2.2	3.8
9-Feb	Z	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.9	1.1	1.6	2.1	2.2	2.8	2.6	2.7	3.1	3.3	2.9	2.6	2.1	2.0	1.7	1.6	3.3
10-Feb	1.4	Z	1.5	1.3	1.6	1.5	1.6	2.0	1.9	1.5	2.5	3.3	3.7	4.1	3.8	3.6	3.7	3.5	3.6	3.2	3.3	3.9	4.3	4.5	2.8	4.5
11-Feb	4.1	4.7	Z	3.0	2.4	2.2	2.0	1.4	1.2	1.3	1.0	0.7	0.8	0.7	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.8	1.4	4.7
12-Feb	0.9	0.8	0.6	Z	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.8	0.6	0.5	0.4	0.4	0.7	0.7	0.9	1.2	1.7	2.7	3.5	2.3	1.0	3.5
13-Feb	1.4	0.7	0.7	0.5	Z	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	1.4
14-Feb	0.6	0.5	0.6	0.5	0.4	Z	0.6	0.6	0.5	0.5	0.7	0.7	0.6	0.5	0.4	0.3	0.4	0.4	0.3	0.4	0.5	0.6	0.7	0.7	0.5	0.7
15-Feb	Z	0.7	0.8	1.0	1.0	1.0	0.9	0.6	0.7	0.6	1.0	2.1	3.5	2.2	1.1	0.9	4.9	4.9	5.7	6.1	5.0	6.3	7.5	5.0	2.8	7.5
16-Feb	4.6	Z	3.6	3.7	2.3	1.7	0.8	0.6	1.1	1.3	1.5	1.1	1.4	1.7	1.5	1.0	0.6	0.5	0.6	0.5	0.4	0.5	0.5	0.3	1.4	4.6
17-Feb	0.3	0.3	Z	0.5	0.2	0.2	0.2	0.4	0.5	0.3	0.2	0.3	0.5	0.3	0.3	0.2	0.3	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.4	0.6
18-Feb	0.7	0.8	0.9	Z	0.7	0.7	0.8	1.0	1.0	0.8	0.7	0.6	0.5	0.6	0.7	0.8	1.1	1.6	2.1	2.9	2.5	3.9	4.4	4.4	1.5	4.4
19-Feb	2.8	1.8	0.8	0.5	Z	0.6	1.1	0.9	0.8	0.6	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.7	0.7	1.0	1.4	1.4	1.6	3.1	1.0	3.1
20-Feb	4.6	4.8	4.7	4.8	5.4	Z	5.1	5.5	4.7	5.3	5.8	5.9	5.6	5.5	5.4	5.0	5.5	7.4	9.1	6.2	5.8	4.8	3.7	3.0	5.4	9.1
21-Feb	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
22-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
23-Feb	UO	UO	Z	1.5	1.3	1.2	0.9	0.8	0.9	0.8	0.8	0.8	0.7	0.8	0.7	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.4	1.0	1.5
24-Feb	1.5	1.4	1.4	Z	1.7	1.6	1.6	1.8	1.9	1.7	1.3	1.1	1.1	1.1	1.0	1.2	1.2	1.3	1.9	2.3	2.5	3.1	2.9	2.1	1.7	3.1
25-Feb	1.7	1.5	2.9	2.9	Z	3.5	3.5	3.3	2.4	1.6	1.3	1.1	C	C	C	C	C	C	0.6	0.7	0.6	0.5	2.0	1.6	--	3.5
26-Feb	1.3	1.7	1.5	2.1	2.4	Z	1.8	1.4	1.0	1.0	0.9	0.8	0.8	1.9	3.6	5.6	6.3	5.6	3.8	2.9	3.2	3.6	2.7	3.1	2.6	6.3
27-Feb	Z	2.9	3.5	2.9	3.1	3.5	3.8	3.8	2.8	2.0	1.0	0.8	0.8	0.8	0.8	1.0	1.3	1.6	3.2	4.1	4.4	4.3	5.2	6.1	2.8	6.1
28-Feb	8.4	Z	6.6	12.1	11.5	3.2	1.6	1.6	1.6	1.5	1.4	1.1	0.9	0.8	0.8	0.8	1.2	2.8	1.4	1.5	1.7	1.9	2.5	2.9	3.0	12.1
	2.2	1.8	2.3	2.4	2.3	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.7	1.7	1.6	1.7	1.9	2.1	2.1	2.0	2.0	2.1	2.4	2.3	Diurnal Average	
	8.4	4.8	6.6	12.1	11.5	3.7	5.1	5.5	4.7	5.3	5.8	5.9	5.6	6.7	5.4	5.6	6.3	7.4	9.1	6.2	5.8	6.3	7.5	6.1	Diurnal Maximum	

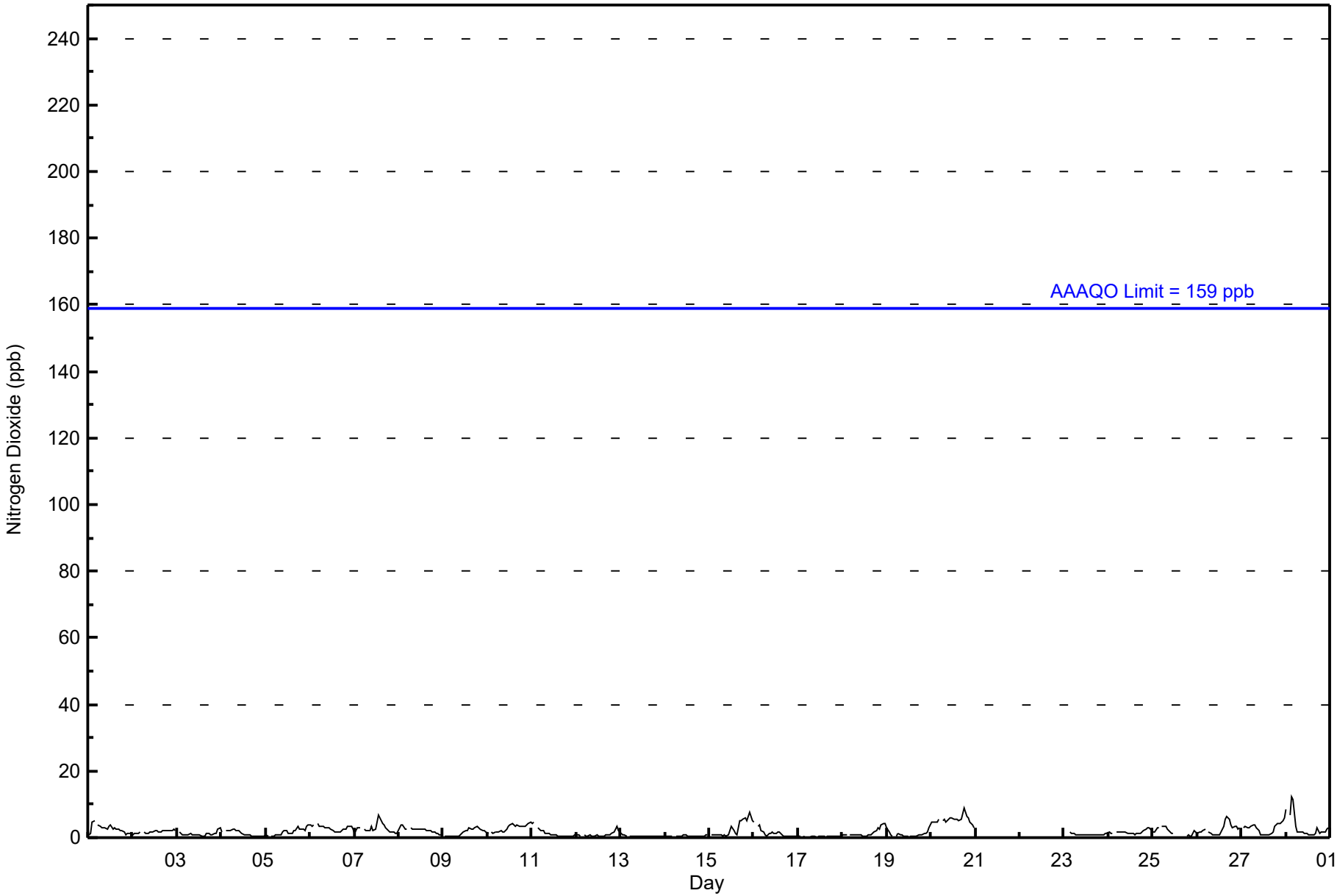
Z - zerospan C - Calibration UO - Unstable Operation
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Stony Mountain - February 2026



Nitrogen Dioxide (NO_2) - ppb
Stony Mountain - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	590	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 590

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Stony Mountain - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	20	30	49	21	26	16	9	20	19	56	80	55	64	40	48	37	590
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	20	30	49	21	26	16	9	20	19	56	80	55	64	40	48	37	590

Total Number of Valid Hours: 590

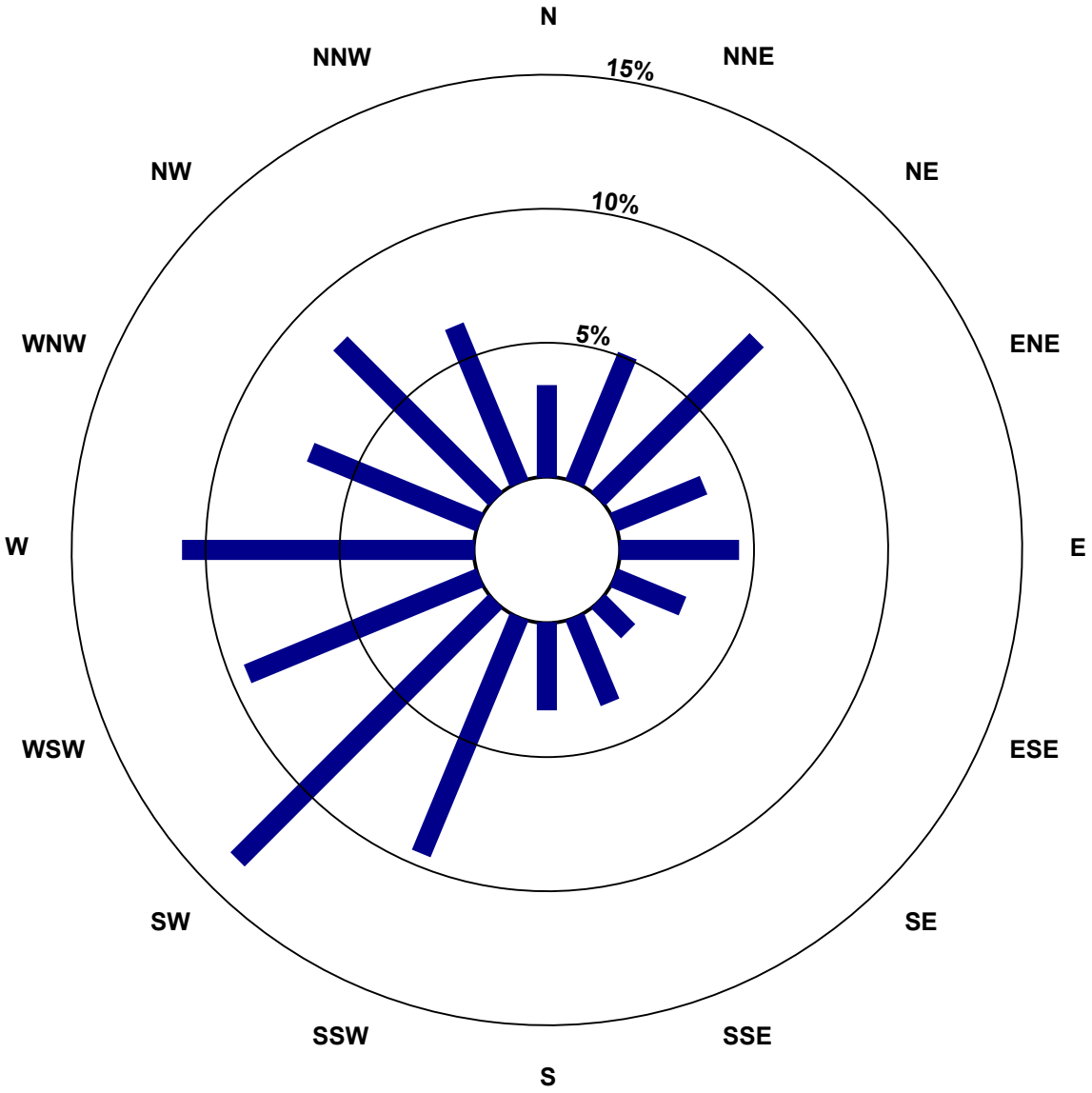
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Stony Mountain



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

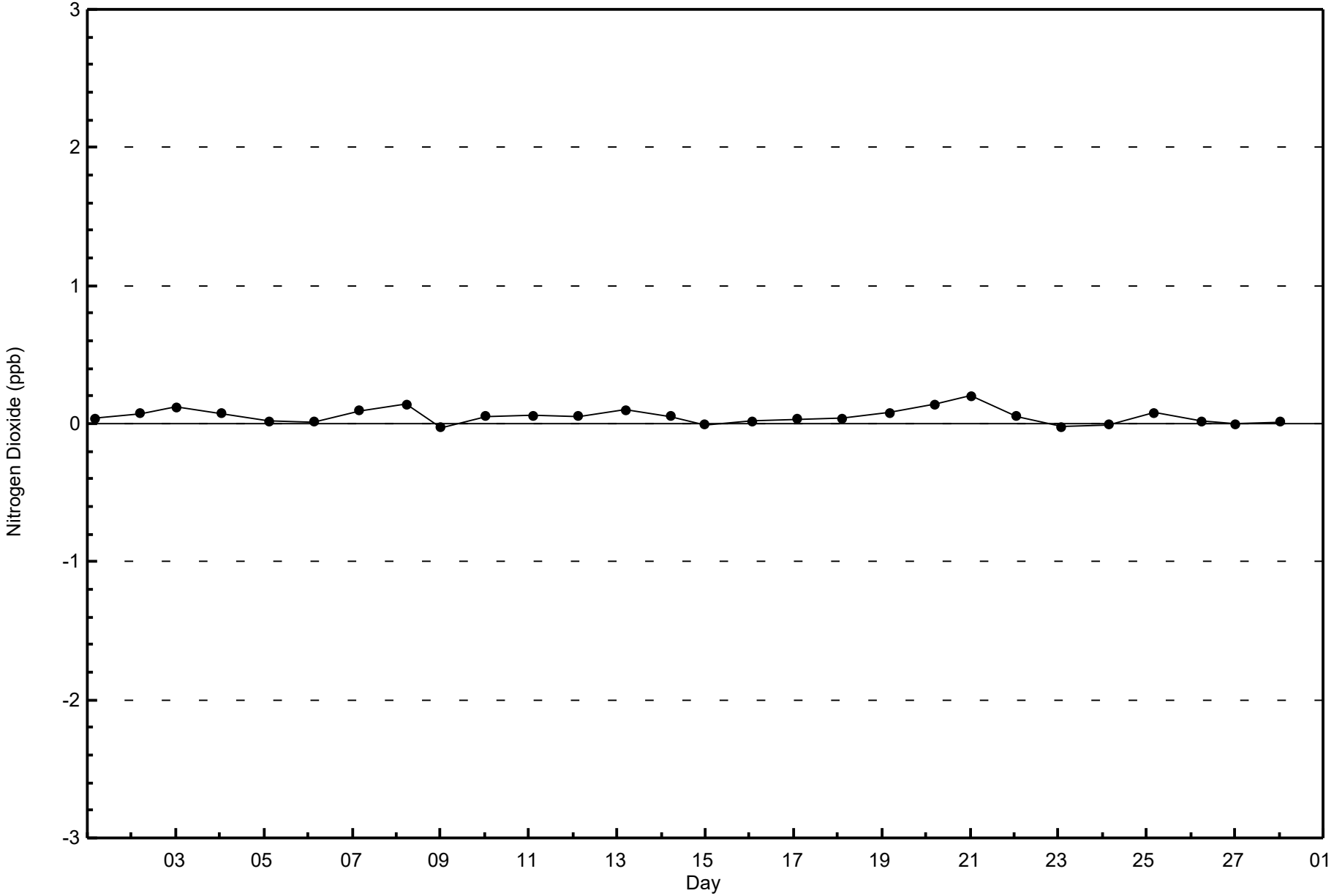
Total Number of Valid Hours: 590

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Stony Mountain - February 2026

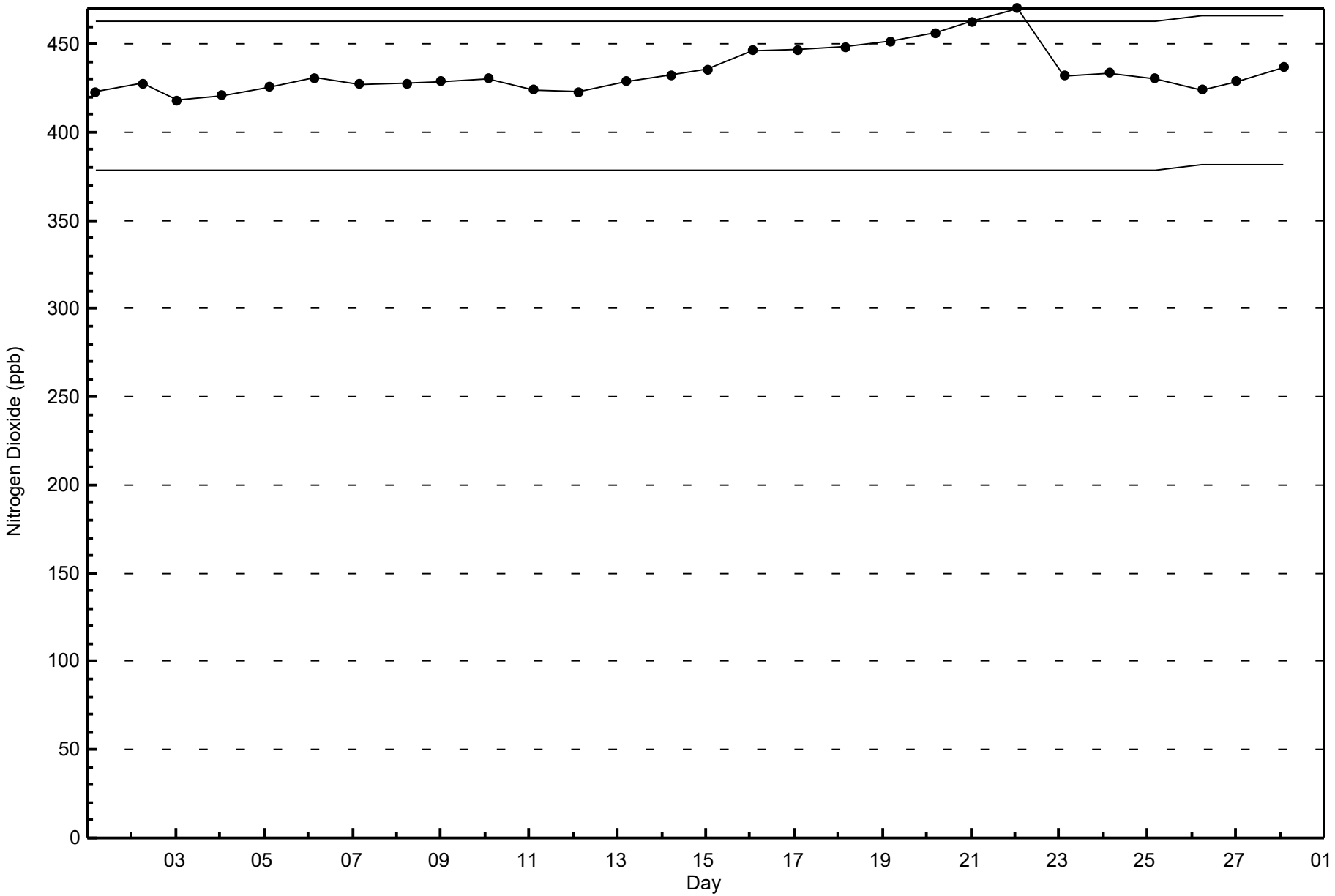


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Stony Mountain - February 2026

Maximum Value: 12.1 ppb on Feb 28 04:00

Maximum Daily Average: 6.1 ppb on Feb 20

Minimum Value: 0.2 ppb on Feb 17 05:00

Minimum Daily Average: 0.4 ppb on Feb 17

Maximum Diurnal Average: 2.4 ppb at hour 4

Minimum Diurnal Average: 1.7 ppb at hour 9

Monthly Average: 2.07 ppb

Percentiles: P_1 = 0.3 P_{10} = 0.5 Q_1 = 0.8 Median = 1.5 Q_3 = 2.9 P_{90} = 4.3 P_{99} = 8.5

Hours in Service:	672
Hours of Data:	590
Hours of Missing Data:	82
Hours of Calibration:	33
Percent Operational Time:	92.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.8	1.1	4.5	5.0	Z	3.7	3.2	3.1	3.0	3.1	3.0	3.8	4.6	3.0	3.3	2.8	2.6	2.0	2.0	1.5	1.0	1.1	1.2	1.1	2.6	5.0
2-Feb	1.0	1.2	1.2	1.4	1.8	Z	1.5	1.1	1.4	1.6	2.0	2.2	2.3	2.3	2.1	1.9	2.1	2.0	2.0	2.0	2.3	2.1	2.4	2.1	1.8	2.4
3-Feb	Z	1.7	1.2	0.9	0.9	0.8	1.0	1.1	0.9	1.0	0.8	0.7	1.1	0.6	0.6	0.6	1.1	1.1	0.7	0.9	1.3	1.2	2.7	3.1	1.1	3.1
4-Feb	1.7	Z	2.0	2.1	2.3	2.3	2.4	2.4	2.3	2.2	1.9	1.4	1.0	1.0	1.0	0.8	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	1.4	2.4
5-Feb	0.7	0.6	Z	0.6	0.6	0.8	0.8	0.7	0.9	1.6	2.3	2.4	1.4	1.5	1.7	2.3	2.3	3.6	2.5	2.7	2.6	2.3	3.6	3.9	1.8	3.9
6-Feb	3.7	3.6	3.9	Z	4.1	3.6	3.3	3.2	2.9	3.3	3.5	3.4	3.2	2.3	2.0	2.2	2.1	2.0	2.6	2.7	3.2	3.2	3.2	2.7	3.1	4.1
7-Feb	1.2	3.1	3.1	2.9	Z	2.6	2.1	2.3	2.3	4.5	2.8	3.7	7.0	10.2	6.6	5.0	4.0	2.8	2.2	1.8	1.8	1.5	1.4	1.3	3.3	10.2
8-Feb	2.9	3.9	3.7	2.7	2.6	Z	2.9	2.5	2.5	2.7	2.9	2.8	3.0	3.1	2.9	2.4	2.2	2.1	1.8	1.5	1.4	1.2	0.8	0.7	2.4	3.9
9-Feb	Z	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4	1.0	1.6	2.7	4.1	3.9	4.1	3.6	3.0	3.1	3.3	2.9	2.6	2.1	2.0	1.7	2.0	4.1
10-Feb	1.4	Z	1.5	1.3	1.6	1.5	1.6	2.0	2.0	2.0	3.8	4.8	5.3	5.1	4.3	4.2	4.0	3.6	3.6	3.2	3.3	3.9	4.3	4.5	3.2	5.3
11-Feb	4.2	4.7	Z	3.0	2.4	2.2	2.0	1.4	1.3	1.4	1.2	0.8	0.9	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.8	1.4	4.7
12-Feb	0.9	0.8	0.6	Z	0.7	0.6	0.6	0.7	0.7	0.7	0.7	1.0	0.7	0.6	0.5	0.5	0.8	0.7	0.9	1.2	1.7	2.8	3.6	2.3	1.1	3.6
13-Feb	1.4	0.7	0.7	0.5	Z	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	1.4
14-Feb	0.6	0.5	0.6	0.5	0.4	Z	0.6	0.6	0.5	0.6	0.8	0.8	0.7	0.6	0.4	0.3	0.4	0.4	0.3	0.4	0.5	0.6	0.7	0.7	0.5	0.8
15-Feb	Z	0.7	0.8	1.0	1.0	1.0	0.9	0.6	0.7	0.6	1.1	2.6	4.5	2.6	1.2	0.9	5.3	5.0	5.7	6.1	5.0	6.3	7.5	5.0	2.9	7.5
16-Feb	4.6	Z	3.6	3.7	2.3	1.7	0.8	0.6	1.2	1.7	2.6	2.0	2.9	3.2	2.6	1.4	0.7	0.5	0.6	0.5	0.4	0.5	0.5	0.3	1.7	4.6
17-Feb	0.3	0.3	Z	0.5	0.2	0.2	0.2	0.4	0.5	0.4	0.3	0.3	0.6	0.3	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.4	0.6
18-Feb	0.7	0.8	0.9	Z	0.7	0.7	0.8	1.0	1.2	1.3	1.6	1.4	1.2	1.3	1.6	1.8	1.8	1.8	2.1	2.9	2.5	3.9	4.5	4.4	1.8	4.5
19-Feb	2.8	1.8	0.8	0.5	Z	0.6	1.1	0.9	1.0	1.0	0.7	0.5	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.0	1.4	1.4	1.6	3.1	1.0	3.1
20-Feb	4.6	4.8	4.7	4.8	5.4	Z	5.1	5.6	5.3	7.0	8.5	8.8	8.5	7.3	6.9	5.9	6.0	7.6	9.1	6.2	5.8	4.8	3.7	3.0	6.1	9.1
21-Feb	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
22-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
23-Feb	UO	UO	Z	1.5	1.3	1.2	0.9	0.8	0.9	0.9	1.0	0.9	0.8	0.9	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.4	1.0	1.5
24-Feb	1.5	1.4	1.4	Z	1.7	1.6	1.6	1.8	2.2	2.2	1.9	1.5	1.5	1.5	1.3	1.4	1.3	1.3	1.9	2.3	2.5	3.1	2.9	2.1	1.8	3.1
25-Feb	1.7	1.5	2.9	2.9	Z	3.5	3.5	3.4	2.7	1.9	1.5	1.2	C	C	C	C	C	C	0.6	0.7	0.6	0.5	2.0	1.6	--	3.5
26-Feb	1.3	1.7	1.5	2.1	2.4	Z	1.8	1.4	1.0	1.1	1.1	0.9	0.9	2.6	4.8	6.7	7.2	5.8	3.8	2.9	3.2	3.6	2.7	3.1	2.8	7.2
27-Feb	Z	2.9	3.5	2.9	3.1	3.5	3.8	3.9	3.5	2.9	1.5	1.3	1.2	1.2	1.2	1.3	1.6	1.7	3.2	4.1	4.4	4.3	5.2	6.1	3.0	6.1
28-Feb	8.4	Z	6.6	12.1	11.5	3.2	1.6	1.6	1.9	2.1	2.0	1.6	1.3	1.1	1.0	1.0	1.4	2.9	1.4	1.5	1.7	1.9	2.5	2.9	3.2	12.1
	2.2	1.8	2.3	2.4	2.3	1.7	1.7	1.7	1.7	1.9	2.0	2.1	2.4	2.3	2.1	2.0	2.1	2.2	2.1	2.0	2.0	2.1	2.4	2.3	Diurnal Average	
	8.4	4.8	6.6	12.1	11.5	3.7	5.1	5.6	5.3	7.0	8.5	8.8	8.5	10.2	6.9	6.7	7.2	7.6	9.1	6.2	5.8	6.3	7.5	6.1	Diurnal Maximum	

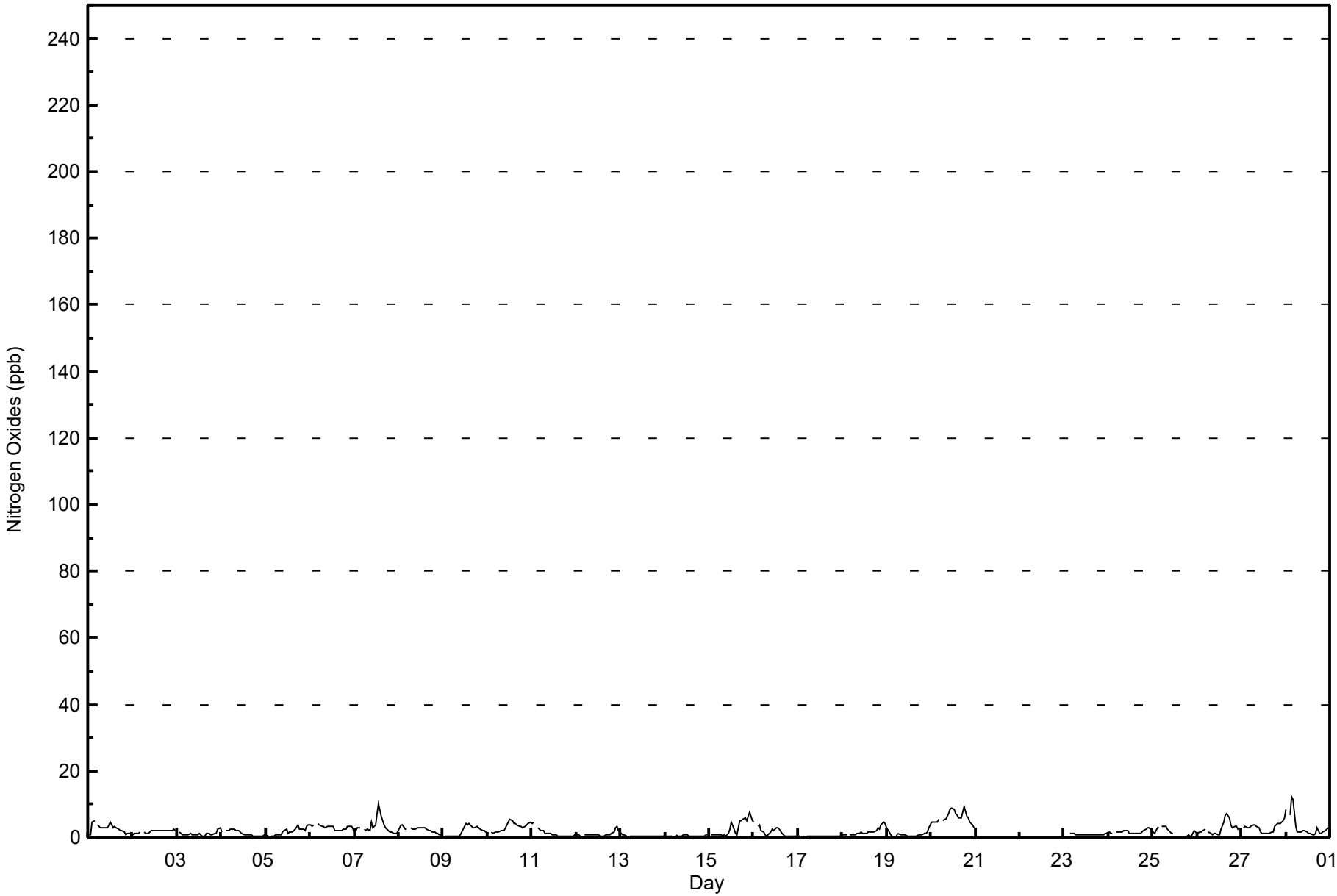
Z - zerospan C - Calibration UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Stony Mountain - February 2026



Nitrogen Oxides (NO_X) - ppb
Stony Mountain - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	590	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 590

Total Number of Hours: 672

Nitrogen Oxides (NO_X) - ppb
Stony Mountain - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	20	30	49	21	26	16	9	20	19	56	80	55	64	40	48	37	590
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	20	30	49	21	26	16	9	20	19	56	80	55	64	40	48	37	590

Total Number of Valid Hours: 590

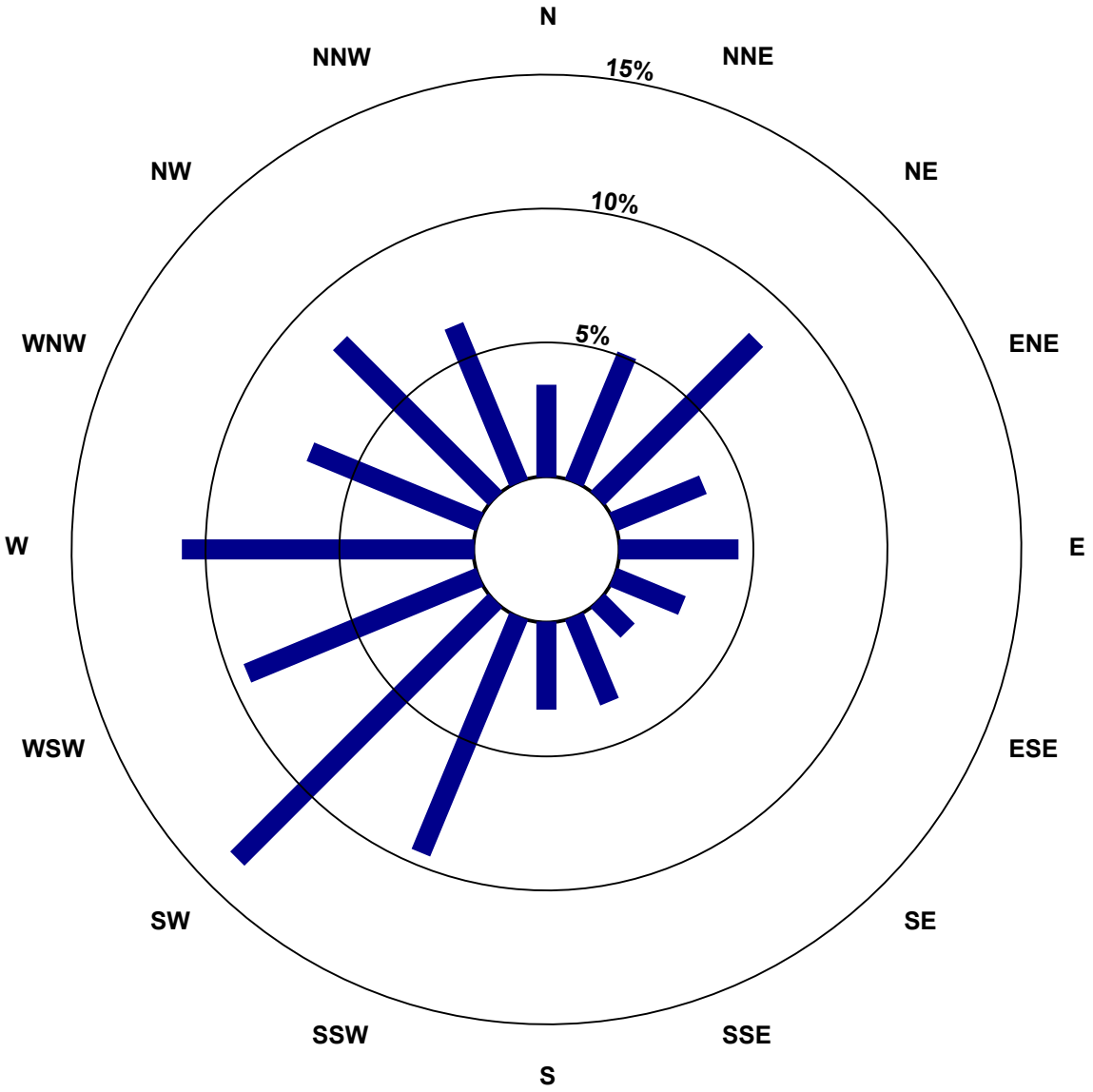
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Stony Mountain



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

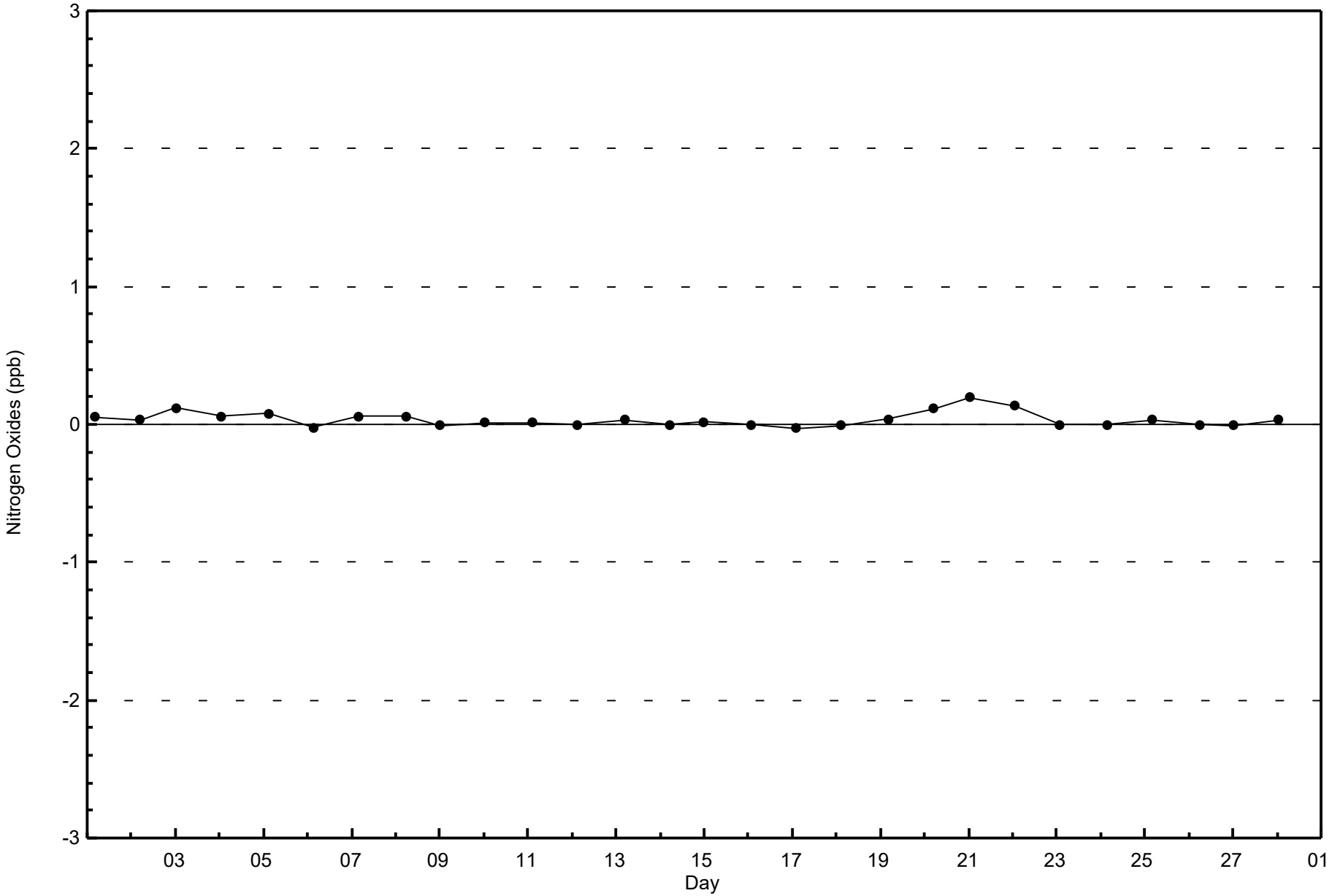
Total Number of Valid Hours: 590

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Stony Mountain - February 2026

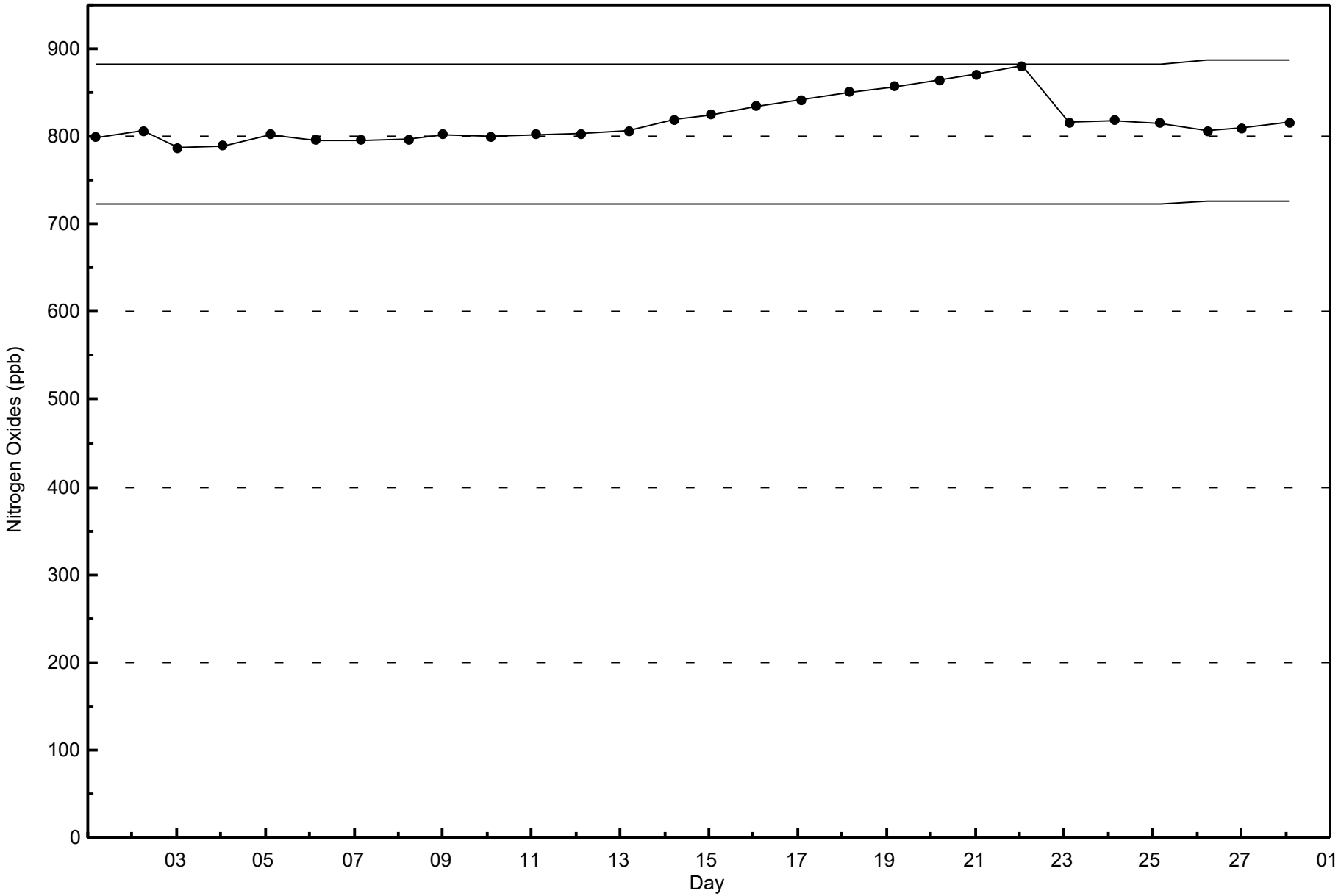


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ozone (O_3) - ppb

Stony Mountain - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 45.6 ppb on Feb 13 14:00 Maximum Daily Average: 44.0 ppb on Feb 13

Minimum Value: 4.3 ppb on Feb 18 23:00 Minimum Daily Average: 13.7 ppb on Feb 18
Maximum Diurnal Average: 30.8 ppb at hour 15 Minimum Diurnal Average: 26.4 ppb at hour 7
Monthly Average: 28.67 ppb Percentiles: P_1 = 9.5 P_{10} = 18.7 Q_1 = 23.0 Median = 27.8 Q_3 = 35.0 P_{90} = 40.6 P_{99} = 44.1

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	30.4	29.5	24.2	Z	25.7	26.1	27.2	26.0	25.7	25.8	25.8	25.7	25.7	26.4	27.4	28.3	29.1	30.0	30.0	30.5	30.7	30.7	31.7	31.4	28.0	31.7
2-Feb	31.3	30.3	30.1	29.7	Z	28.2	28.2	28.7	28.0	26.8	25.5	24.4	23.5	22.8	23.6	23.6	22.8	21.1	20.2	19.7	20.0	18.7	18.8	18.0	24.5	31.3
3-Feb	19.1	19.2	21.0	24.4	25.5	Z	19.7	19.6	22.4	24.7	23.8	23.0	24.3	26.6	26.5	26.5	26.4	27.3	27.6	26.2	24.5	24.8	23.8	23.8	23.9	27.6
4-Feb	Z	26.7	26.4	26.4	26.6	26.7	27.1	28.1	28.9	28.4	31.5	33.9	35.5	37.2	35.8	37.0	36.9	36.2	35.9	35.5	34.5	34.6	33.7	31.4	32.0	37.2
5-Feb	28.6	Z	29.4	28.7	31.5	30.9	29.1	26.8	24.6	23.2	23.2	25.2	27.9	27.8	27.7	27.5	27.4	27.7	27.1	26.9	26.7	27.1	25.3	24.6	27.2	31.5
6-Feb	24.8	24.5	Z	22.8	22.5	22.2	21.7	20.9	21.0	21.3	22.1	23.8	24.0	23.1	23.4	23.3	23.1	22.8	22.2	22.9	23.2	22.8	22.1	21.4	22.7	24.8
7-Feb	21.5	19.7	20.1	Z	20.7	20.5	17.6	19.0	18.4	15.3	17.5	15.9	15.7	16.4	17.5	17.6	18.0	18.4	18.9	19.6	19.4	19.5	19.0	18.1	18.5	21.5
8-Feb	15.5	13.2	13.8	14.5	Z	12.9	12.5	13.0	10.5	12.4	15.0	15.8	17.0	16.9	17.7	19.1	19.5	19.8	19.9	21.1	21.1	22.4	23.7	23.8	17.0	23.8
9-Feb	24.2	24.7	24.4	24.1	23.0	Z	22.1	22.2	24.1	21.5	20.3	19.0	17.7	19.4	18.9	19.7	21.4	21.0	19.7	19.5	20.1	20.1	20.3	20.9	21.2	24.7
10-Feb	Z	21.0	21.0	21.1	20.9	20.7	19.8	18.8	18.0	17.0	17.3	21.0	C	C	C	C	29.1	29.0	29.8	30.6	29.8	29.0	28.1	27.7	23.7	30.6
11-Feb	27.8	Z	28.9	30.2	30.7	30.6	30.3	32.0	31.9	32.1	33.5	37.2	38.0	39.2	39.9	40.2	40.7	41.1	41.0	40.7	41.0	40.5	40.4	39.3	36.0	41.1
12-Feb	39.7	41.3	Z	41.7	41.2	41.1	40.7	40.5	40.4	40.2	40.4	40.6	40.6	41.2	42.0	42.4	42.4	43.6	43.3	42.9	42.2	40.1	39.2	40.8	41.2	43.6
13-Feb	41.8	43.2	43.9	Z	43.9	43.8	43.6	43.5	43.2	43.2	43.4	44.0	45.0	45.6	45.4	45.5	45.1	44.5	43.9	43.6	43.9	44.2	44.0	43.9	44.0	45.6
14-Feb	43.5	43.0	43.4	43.5	Z	42.1	40.5	42.6	43.5	41.2	41.1	42.5	41.4	42.5	43.1	43.0	42.9	42.6	42.8	42.9	42.8	42.1	41.7	41.1	42.4	43.5
15-Feb	40.4	40.3	40.5	39.9	38.9	Z	37.7	38.2	38.6	38.4	38.5	37.9	35.4	36.3	38.3	39.8	24.7	22.7	22.2	22.8	25.5	24.5	22.5	24.1	33.4	40.5
16-Feb	Z	24.8	25.1	24.7	24.6	25.2	25.1	25.7	25.2	24.6	24.8	24.0	22.1	23.2	23.8	24.1	22.8	22.2	22.5	22.3	22.4	22.6	22.1	20.1	23.6	25.7
17-Feb	18.1	Z	17.2	17.6	18.0	18.5	18.8	18.6	18.9	20.6	22.5	24.6	24.6	26.6	27.1	26.7	26.6	27.4	27.9	27.7	27.4	27.7	27.4	27.6	23.4	27.9
18-Feb	27.3	26.3	Z	23.4	22.2	20.7	16.1	13.7	12.3	10.8	9.9	12.8	14.7	14.8	13.6	11.7	12.0	11.4	9.2	8.0	8.4	5.6	4.3	5.1	13.7	27.3
19-Feb	9.0	12.5	14.7	Z	12.0	11.9	12.1	16.2	15.2	15.3	21.1	26.3	29.7	30.8	33.1	34.8	35.9	35.1	33.9	34.0	33.3	33.5	33.2	31.5	24.6	35.9
20-Feb	30.3	29.9	29.5	28.9	Z	27.2	27.3	26.4	26.7	25.7	25.1	25.8	27.5	29.0	30.0	32.0	32.2	28.9	26.0	30.6	31.0	32.8	34.5	36.1	29.3	36.1
21-Feb	34.7	30.0	25.5	23.1	24.4	Z	26.1	24.6	25.0	26.0	31.7	36.4	39.1	39.7	39.3	38.8	38.0	37.0	36.3	35.5	34.3	35.1	34.7	32.5	32.5	39.7
22-Feb	Z	31.8	30.6	29.8	28.3	28.5	29.1	30.1	30.9	31.9	33.5	34.0	33.7	33.9	34.6	34.4	34.4	35.6	36.0	36.2	36.7	36.7	36.9	35.9	33.2	36.9
23-Feb	33.9	Z	31.1	30.9	31.2	30.3	31.2	31.9	33.8	35.3	36.0	36.6	36.3	36.5	37.1	36.9	36.5	36.1	35.7	35.6	35.4	34.8	34.3	33.0	34.4	37.1
24-Feb	32.1	31.2	Z	28.3	27.3	27.5	27.1	25.5	24.2	25.1	27.8	31.7	32.7	33.6	35.9	36.6	35.5	35.6	35.6	34.5	35.0	35.5	35.8	36.3	31.8	36.6
25-Feb	35.9	34.9	32.2	Z	28.8	28.7	27.8	28.7	29.6	31.4	33.8	35.7	37.0	37.5	38.3	M	39.1	38.5	38.9	39.4	39.2	39.8	35.0	30.2	34.6	39.8
26-Feb	32.3	31.4	30.8	29.7	Z	27.6	26.7	26.4	27.7	27.0	29.4	37.8	40.0	33.3	27.1	25.1	24.5	24.9	27.0	28.8	27.6	26.4	27.1	25.7	28.9	40.0
27-Feb	25.6	25.0	23.9	24.3	23.9	Z	23.9	23.9	25.7	27.7	30.2	31.1	31.3	31.4	31.7	33.6	31.9	30.9	29.0	27.3	26.1	25.4	24.4	23.4	27.5	33.6
28-Feb	Z	22.2	22.4	19.0	21.4	30.2	30.2	29.7	29.0	29.0	29.8	31.0	30.6	31.3	31.7	31.2	31.6	30.1	31.7	31.9	32.2	32.1	31.2	30.2	29.1	32.2
	29.0	28.2	27.1	27.3	26.7	27.0	26.4	26.5	26.5	26.5	27.7	29.2	30.0	30.5	30.8	30.7	30.4	30.1	29.8	29.9	29.8	29.6	29.1	28.5	Diurnal Average	
	43.5	43.2	43.9	43.5	43.9	43.8	43.6	43.5	43.5	43.2	43.4	44.0	45.0	45.6	45.4	45.5	45.1	44.5	43.9	43.6	43.9	44.2	44.0	43.9	Diurnal Maximum	

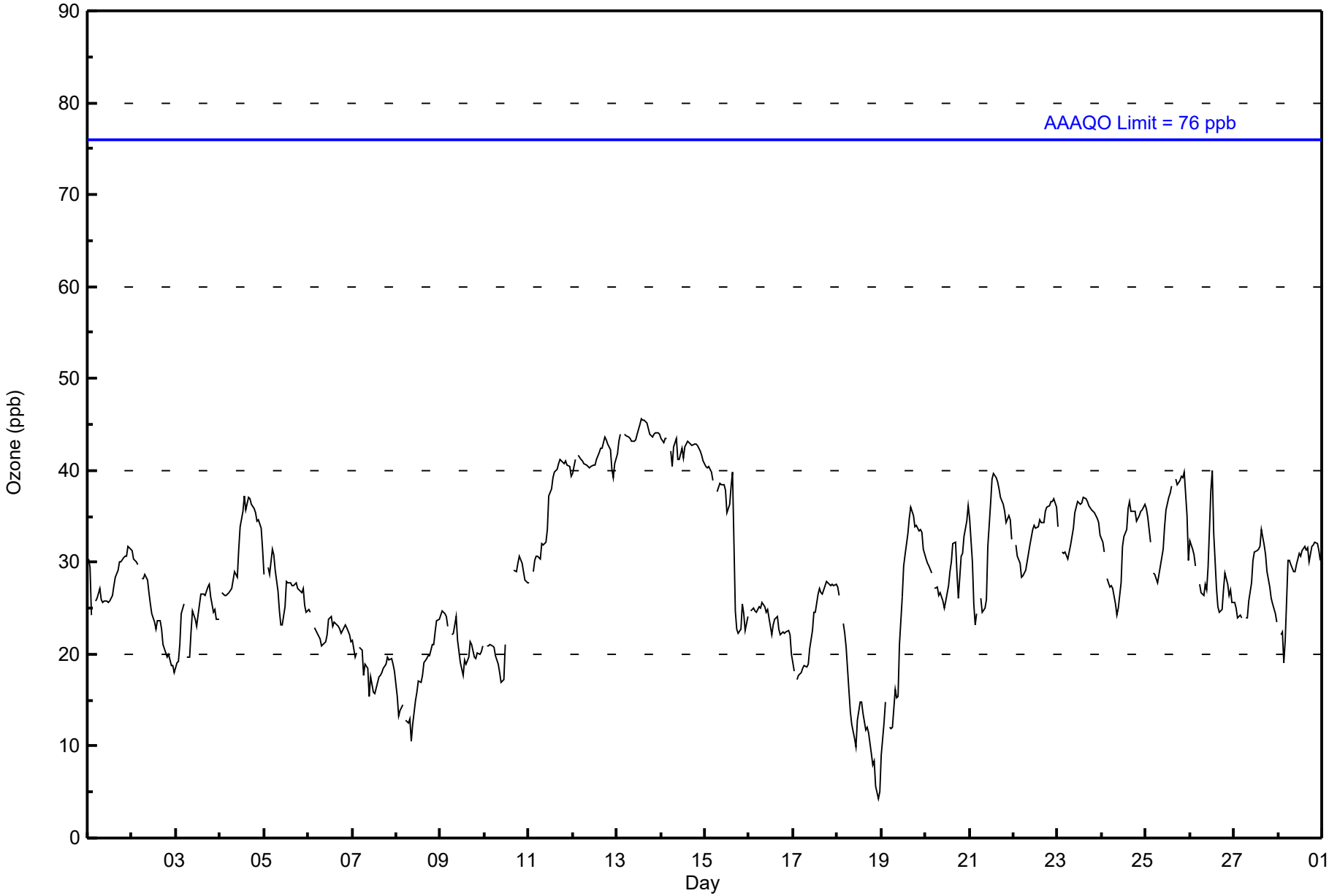
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 76 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ozone (O_3) - ppb

Stony Mountain - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	102	15.96	15.96
21 - 50	537	84.04	100.00
51 - 82	0	0.00	100.00
> 83	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Ozone (O_3) - ppb

Stony Mountain - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	3	10	13	6	6	1	0	1	1	3	5	7	11	6	17	12	102
21 - 50	17	27	50	18	24	31	11	19	17	51	74	50	56	36	30	26	537
51 - 82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	20	37	63	24	30	32	11	20	18	54	79	57	67	42	47	38	639

Total Number of Valid Hours: 639

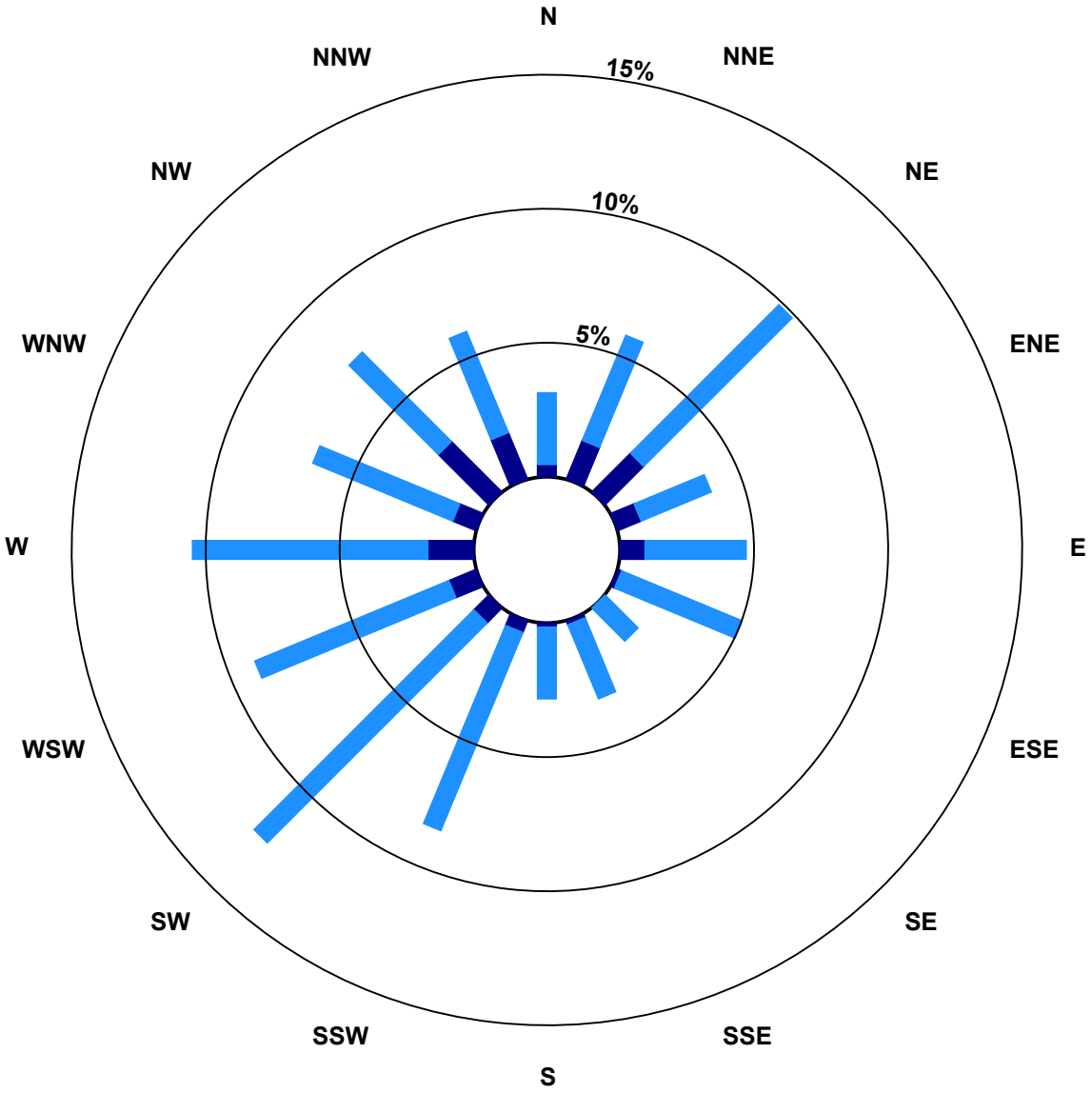
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Ozone (O_3) - ppb

Stony Mountain



Classes (ppb)

0 - 20

21 - 50

51 - 82

> 83

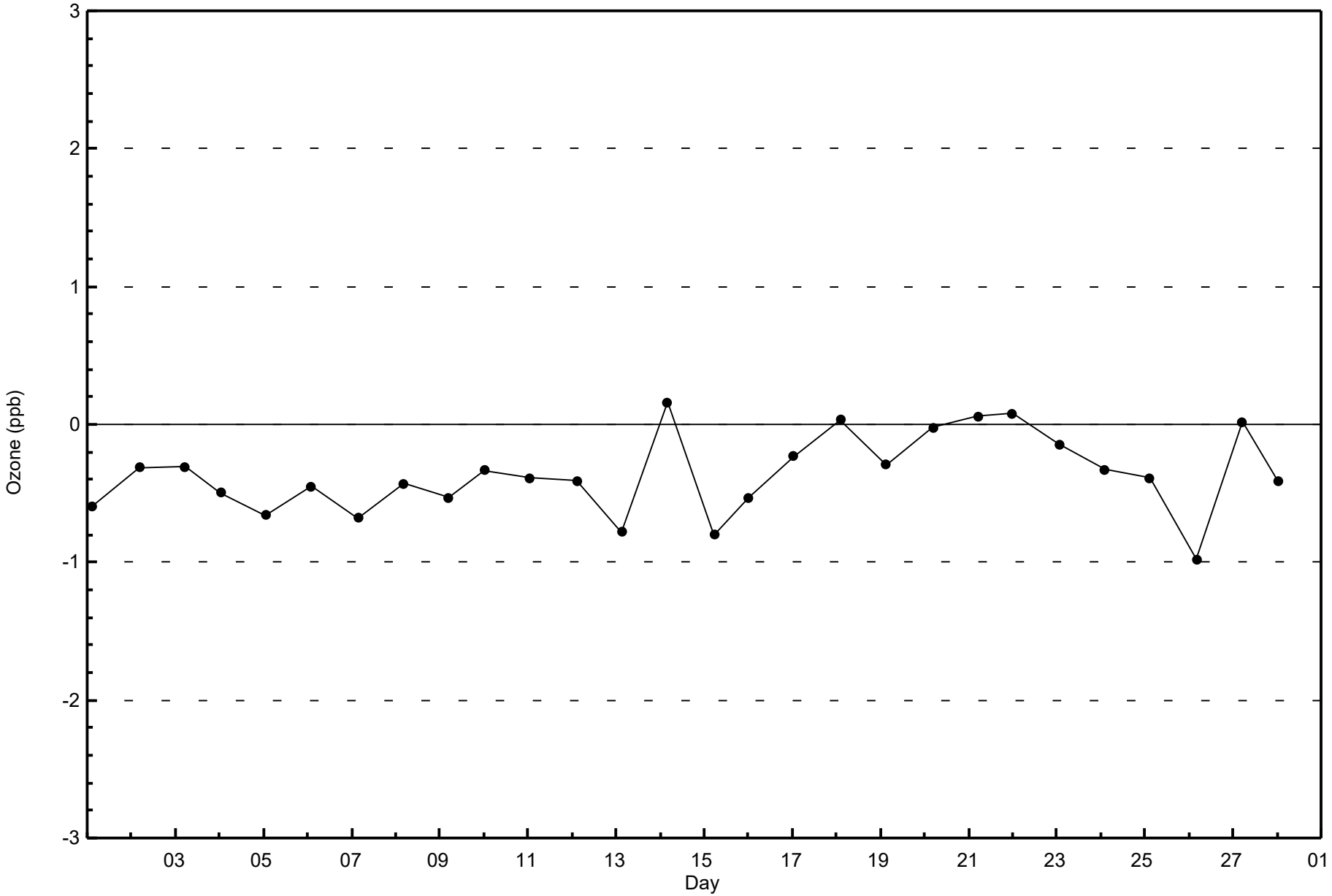
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Ozone (O_3) - ppb

Stony Mountain - February 2026

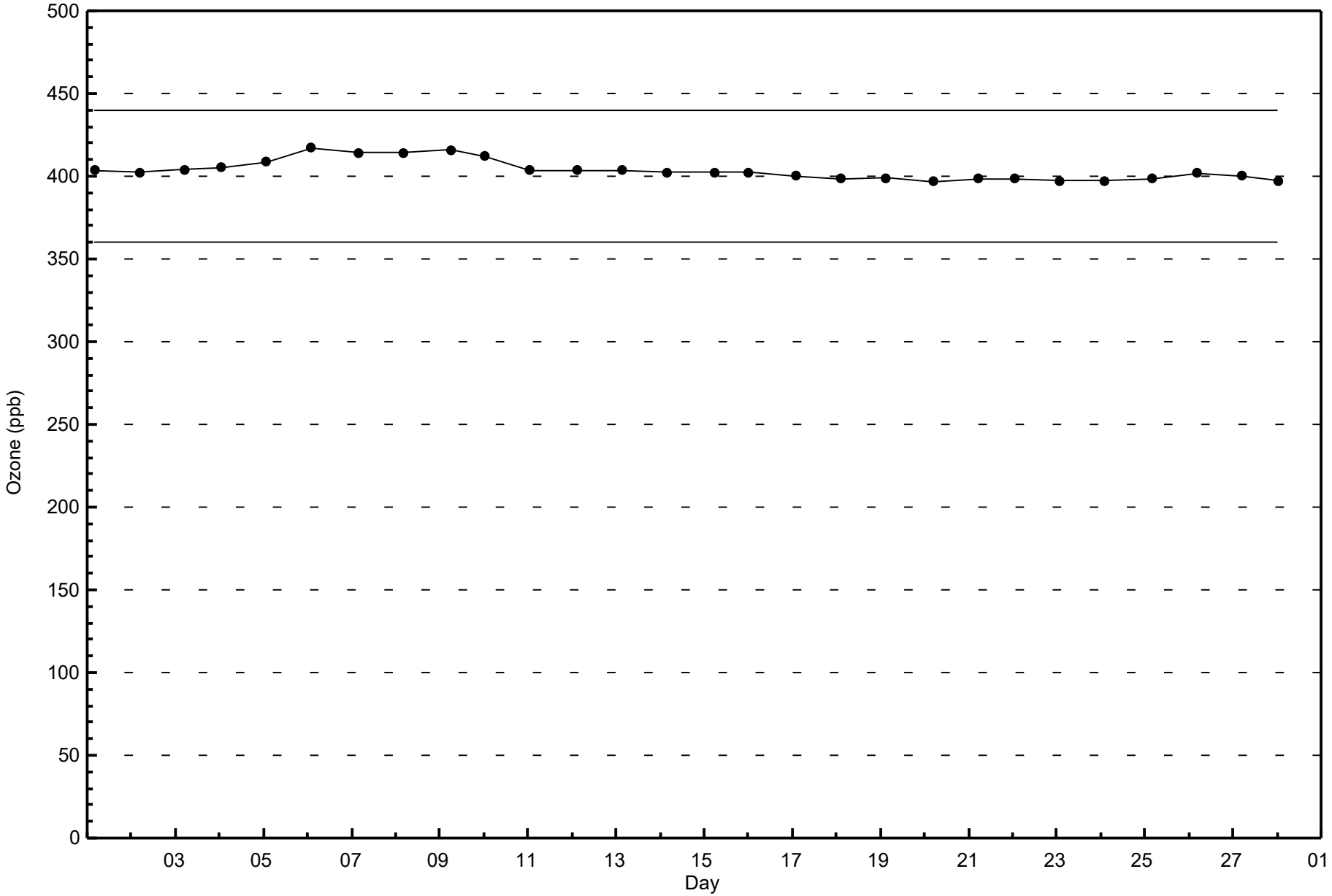


Wood Buffalo Environmental Association

Span Responses

Ozone (O_3) - ppb

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Stony Mountain - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 31.2 $\mu g/m^3$ on Feb 24 23:00

Maximum Daily Average: 11.8 $\mu g/m^3$ on Feb 8

Minimum Value: 0.4 $\mu g/m^3$ on Feb 4 18:00

Minimum Daily Average: 1.6 $\mu g/m^3$ on Feb 12

Maximum Diurnal Average: 4.9 $\mu g/m^3$ at hour 23

Minimum Diurnal Average: 3.4 $\mu g/m^3$ at hour 16

Monthly Average: 4.17 $\mu g/m^3$

Percentiles: P_1 = 0.5 P_{10} = 1.7 Q_1 = 2.1 Median = 2.9 Q_3 = 5.0 P_{90} = 8.3 P_{99} = 18.1

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	1
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	9.6	4.2	5.0	5.9	5.7	5.7	5.7	5.5	4.6	4.5	4.7	4.4	4.4	4.2	3.7	3.4	3.6	3.2	3.2	2.8	2.7	2.8	3.2	3.5	4.4	9.6
2-Feb	3.5	3.5	3.6	3.5	3.5	3.5	3.6	3.7	3.9	4.6	6.6	9.0	8.9	8.4	6.7	6.8	8.9	10.1	11.5	10.9	10.8	10.4	8.5	8.0	6.8	11.5
3-Feb	6.9	6.4	5.2	4.3	4.1	5.2	6.1	7.1	6.3	5.7	5.3	6.1	5.9	6.3	6.7	6.5	5.4	4.7	4.6	4.1	4.2	4.7	7.9	6.3	5.7	7.9
4-Feb	5.2	5.6	5.8	5.9	6.6	7.2	7.1	6.8	5.4	4.9	2.8	1.5	0.8	0.5	0.8	0.7	0.5	0.4	0.5	0.5	0.7	0.9	1.6	2.5	3.1	7.2
5-Feb	2.5	2.9	2.9	3.1	3.2	3.4	3.3	3.3	2.8	2.8	2.6	3.0	2.5	2.8	2.8	3.0	3.0	19.2	6.8	3.8	2.6	2.4	2.4	2.5	3.7	19.2
6-Feb	2.5	2.6	2.8	3.0	3.2	3.6	4.0	4.1	3.7	3.3	3.0	2.7	2.6	2.8	2.9	3.1	3.4	3.6	3.7	3.8	4.1	4.9	5.5	5.8	3.5	5.8
7-Feb	4.3	7.6	7.4	7.6	7.9	8.3	7.5	7.2	7.1	7.0	9.4	11.1	9.1	6.6	6.3	6.1	5.9	6.8	7.6	7.5	6.9	8.9	10.9	13.3	7.9	13.3
8-Feb	15.5	20.7	21.5	17.8	14.4	18.4	17.3	16.2	15.5	10.4	7.1	7.9	9.2	8.9	8.3	8.0	9.2	10.3	11.7	10.6	9.4	6.9	5.0	3.6	11.8	21.5
9-Feb	3.8	3.9	3.6	3.0	2.9	3.3	4.4	4.8	5.4	6.1	5.9	4.9	4.7	5.2	5.0	5.1	5.5	6.8	8.7	8.8	10.3	10.9	10.6	8.8	5.9	10.9
10-Feb	9.3	9.5	10.4	11.5	13.7	15.5	18.3	17.9	16.6	18.0	12.6	10.3	8.2	7.4	5.8	4.5	3.7	3.5	3.5	3.6	3.9	4.1	4.4	4.8	9.2	18.3
11-Feb	4.8	5.3	5.3	4.1	3.7	3.7	4.0	3.5	3.2	3.1	2.8	2.2	2.2	1.5	1.2	1.0	0.9	0.9	0.8	0.7	0.7	0.9	1.2	1.9	2.5	5.3
12-Feb	2.3	2.0	1.6	1.5	1.5	1.3	1.3	1.2	1.1	1.0	0.8	0.6	0.5	0.4	0.4	0.5	0.6	0.9	1.7	2.5	3.6	4.6	4.3	3.1	1.6	4.6
13-Feb	2.5	2.1	2.3	2.3	2.2	2.2	2.2	2.3	2.5	2.4	2.4	2.4	2.3	2.0	2.1	2.3	2.3	2.3	2.1	1.9	1.8	1.8	1.7	1.7	2.2	2.5
14-Feb	1.8	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	2.1	2.4	2.1	2.1	2.0	1.7	1.7	2.1	2.3	2.3	2.3	2.6	2.9	2.9	2.1	2.9
15-Feb	2.8	3.0	3.1	3.8	4.0	3.7	3.5	3.0	2.4	1.9	1.7	2.1	2.7	2.2	2.0	1.2	2.9	3.6	4.0	3.9	3.4	3.3	3.5	3.5	3.0	4.0
16-Feb	3.4	3.1	2.8	2.5	2.4	2.0	1.8	1.8	1.9	2.1	2.0	2.1	2.4	2.2	2.1	1.9	1.9	1.9	1.9	1.9	1.8	1.6	1.7	1.9	2.1	3.4
17-Feb	2.2	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.6	2.5	2.5	2.5	2.5	2.4	2.5	2.5	2.5	2.5	2.4	2.4	2.2	1.9	1.8	1.8	2.3	2.6
18-Feb	1.8	1.9	1.8	1.8	1.7	1.6	1.6	1.7	1.7	1.8	1.9	1.7	1.7	1.7	1.8	2.1	2.2	1.9	1.9	1.8	1.9	2.4	2.6	2.6	1.9	2.6
19-Feb	2.2	1.8	1.5	1.6	1.6	1.6	1.5	1.8	1.7	1.9	2.1	1.7	1.6	1.5	1.3	1.2	1.2	1.4	1.5	1.8	2.6	2.7	2.7	4.1	1.9	4.1
20-Feb	5.7	6.7	6.2	6.3	6.5	7.4	6.9	7.9	6.0	10.9	10.1	10.6	12.1	10.2	9.4	8.4	8.1	10.3	9.6	7.1	5.6	4.8	3.9	3.0	7.6	12.1
21-Feb	2.8	3.3	3.8	4.0	3.7	3.0	2.8	2.9	2.6	2.3	2.2	2.1	1.9	1.9	1.5	1.4	1.2	1.6	1.8	2.0	2.3	2.4	2.4	2.5	2.4	4.0
22-Feb	2.5	2.5	2.5	2.6	2.5	2.6	2.6	2.5	2.6	2.4	1.7	1.9	2.4	2.4	4.0	3.8	1.8	2.1	1.7	1.8	2.8	4.4	1.5	1.4	2.5	4.4
23-Feb	1.4	1.3	1.4	1.6	1.7	1.9	1.7	1.7	2.0	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.2	2.3	2.4	2.5	2.5	2.6	2.8	2.1	2.8
24-Feb	3.0	3.0	3.1	3.4	4.1	3.8	3.6	3.6	3.4	3.3	3.2	2.8	2.7	2.6	2.4	2.3	2.4	2.5	2.6	10.0	15.8	29.9	31.2	12.6	6.6	31.2
25-Feb	6.6	4.2	4.1	4.5	5.2	7.8	5.2	5.2	5.0	4.3	3.4	2.9	2.8	2.6	2.3	1.9	C	2.0	1.9	1.7	1.8	1.7	1.9	4.0	3.6	7.8
26-Feb	4.4	4.2	4.2	4.1	4.1	4.2	4.0	4.2	4.3	4.0	3.6	1.6	0.9	2.3	3.4	4.2	4.6	3.6	3.2	3.0	2.8	2.6	2.3	2.2	3.4	4.6
27-Feb	2.2	2.5	2.2	2.1	2.1	2.1	2.2	2.3	2.6	2.1	2.1	2.2	2.3	2.6	3.3	6.0	3.8	2.4	2.2	2.1	2.1	2.4	2.5	2.5	2.5	6.0
28-Feb	2.7	2.6	2.6	2.8	4.5	2.5	2.1	2.5	2.9	3.4	3.3	3.1	4.1	4.9	6.7	4.4	5.8	6.2	6.3	5.9	6.0	5.8	6.4	7.0	4.4	7.0
	4.2	4.3	4.3	4.2	4.3	4.6	4.6	4.6	4.3	4.3	3.9	3.9	3.8	3.6	3.6	3.4	3.5	4.2	4.0	4.0	4.2	4.8	4.9	4.3	Diurnal Average	
	15.5	20.7	21.5	17.8	14.4	18.4	18.3	17.9	16.6	18.0	12.6	11.1	12.1	10.2	9.4	8.4	9.2	19.2	11.7	10.9	15.8	29.9	31.2	13.3	Diurnal Maximum	

C - Calibration

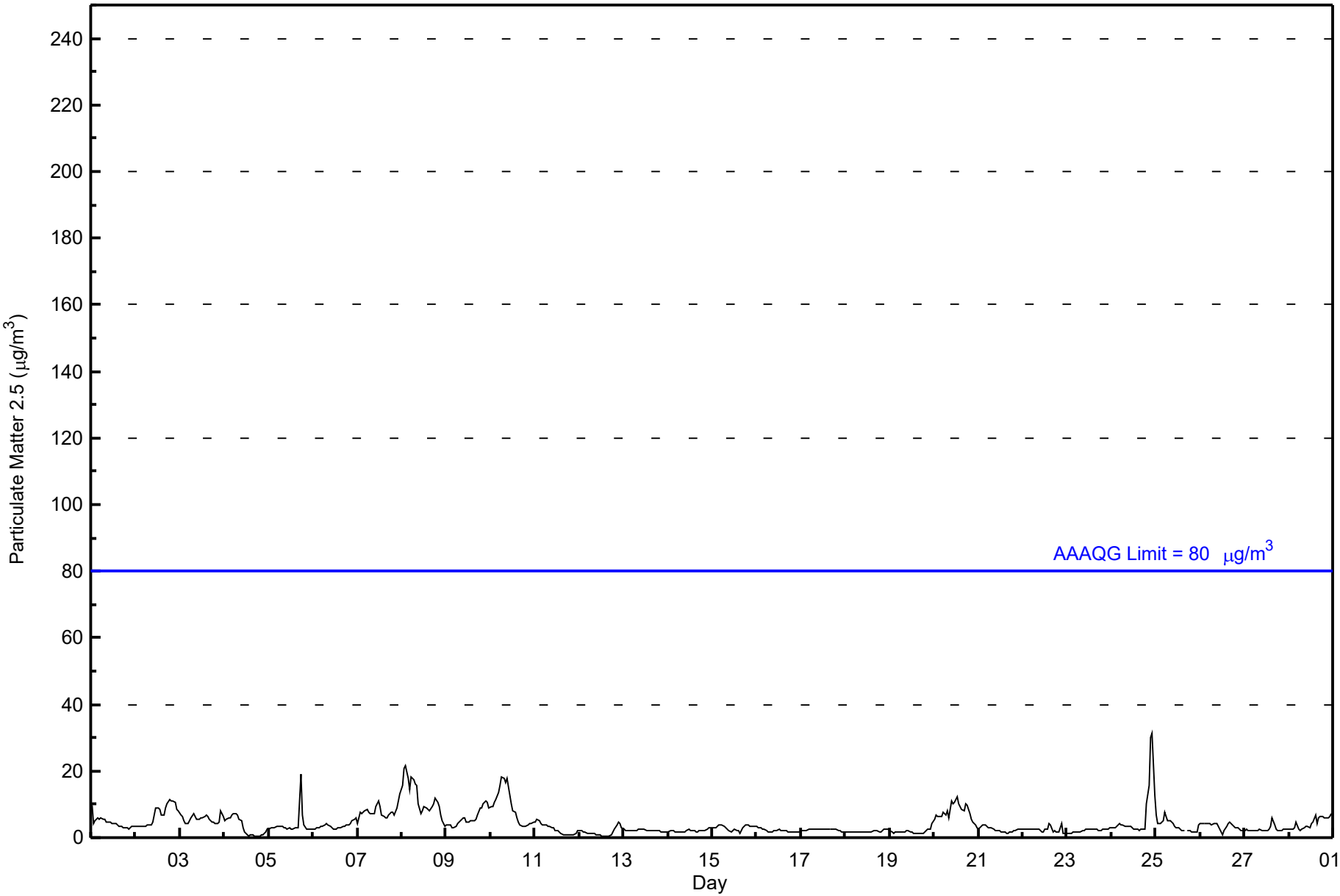
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Stony Mountain - February 2026



Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Stony Mountain - February 2026

Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	521	77.65	77.65
6 - 15	134	19.97	97.62
16 - 25	14	2.09	99.70
26 - 80	2	0.30	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 671

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Stony Mountain - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	18	34	50	17	21	30	11	16	15	30	56	54	62	38	36	33	521
6 - 15	2	4	14	9	7	4	1	4	5	24	27	5	7	5	12	4	134
16 - 25	1	1	1	0	3	1	0	1	0	2	0	1	0	0	2	1	14
26 - 80	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	21	39	65	26	31	35	12	21	20	58	83	60	69	43	50	38	671

Total Number of Valid Hours: 671

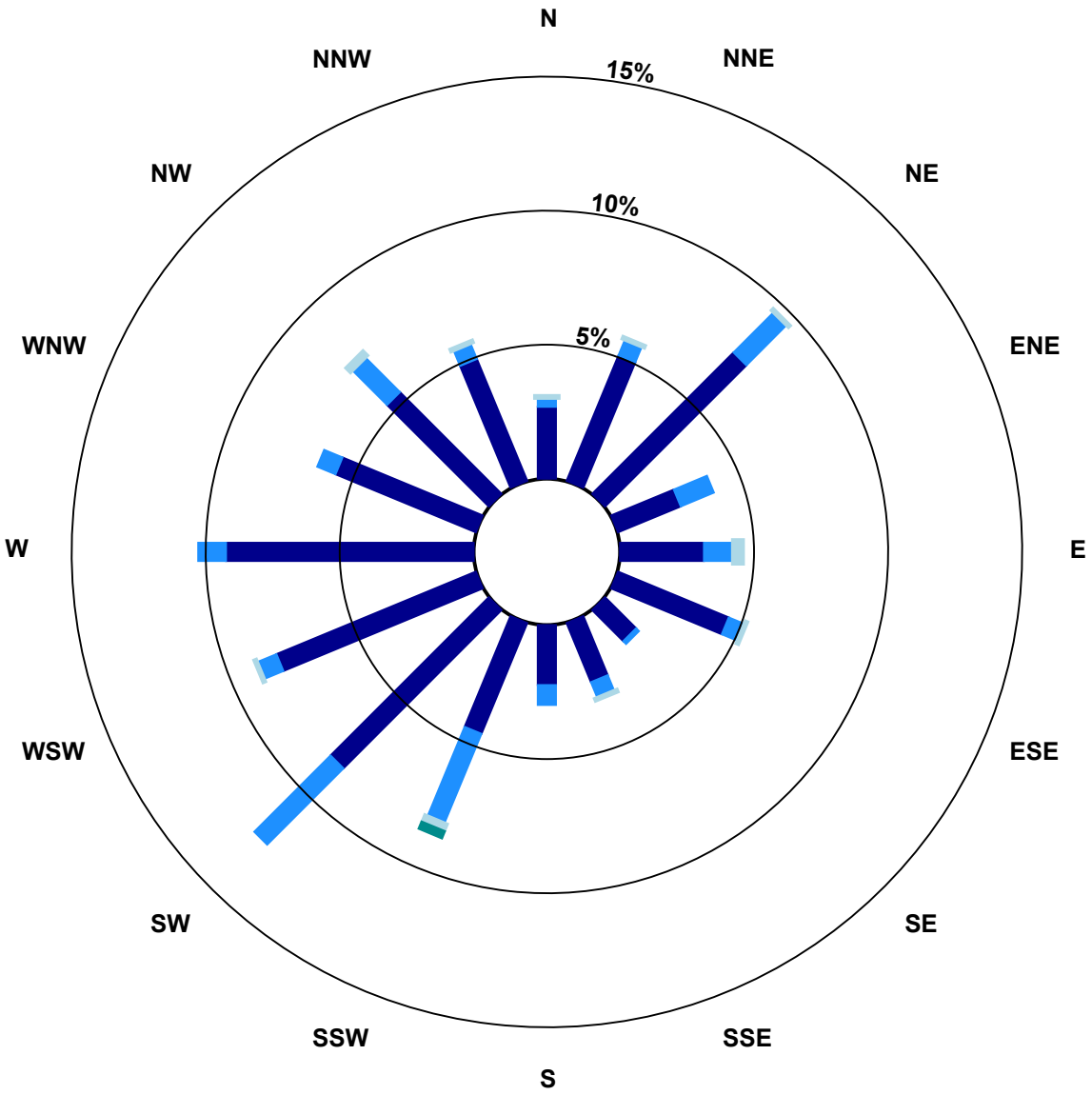
Total Number of Hours: 672

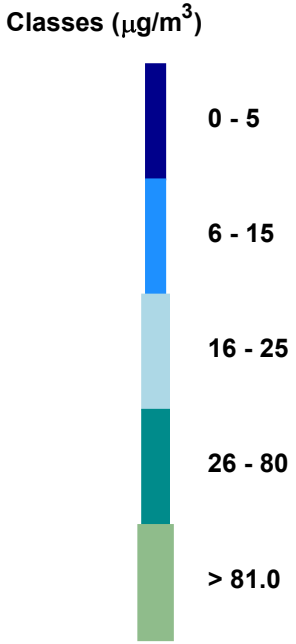
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Stony Mountain





Total Number of Valid Hours: 671

Maximum Value: 9.7 C on Feb 4 14:00

Maximum Daily Average: 3.9 C on Feb 4

Minimum Value: -32.9 C on Feb 18 23:00

Minimum Daily Average: -28.9 C on Feb 18

Maximum Diurnal Average: -7.8 C at hour 15

Minimum Diurnal Average: -13.1 C at hour 8

Monthly Average: -11.01 C

Percentiles: P_1 = -31.6 P_{10} = -25.2 Q_1 = -19.6 Median = -9.5 Q_3 = -3.0 P_{90} = 0.9 P_{99} = 7.4

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

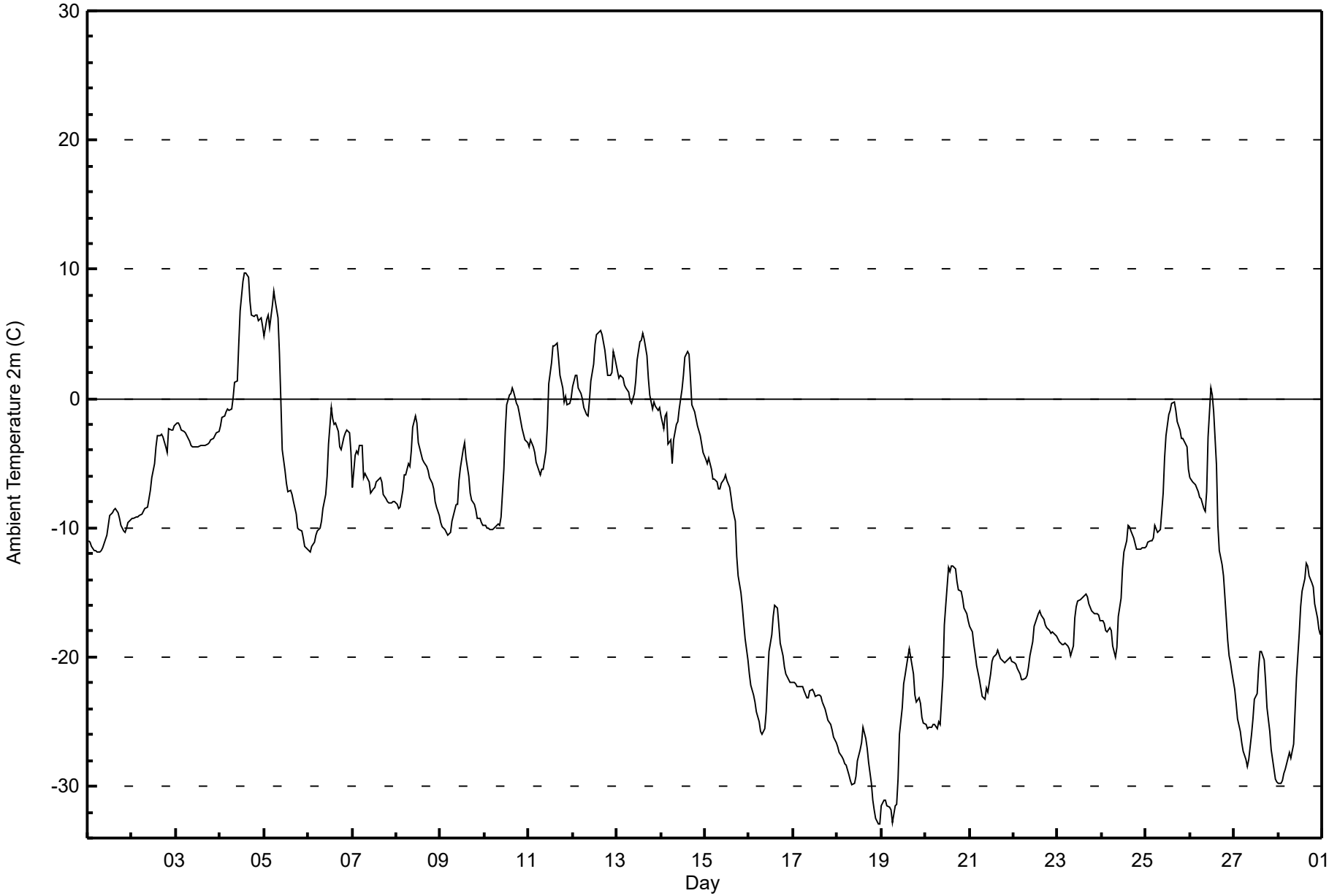
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.0	-11.1	-11.4	-11.7	-11.8	-11.9	-11.9	-11.8	-11.6	-11.2	-10.6	-9.8	-9.1	-8.8	-8.6	-8.5	-8.9	-9.3	-9.8	-10.2	-10.3	-10.0	-9.6	-9.3	-10.3	-8.5
2-Feb	-9.2	-9.2	-9.1	-9.1	-9.1	-8.9	-8.7	-8.5	-8.4	-7.8	-7.1	-6.1	-5.1	-3.8	-2.8	-2.8	-2.8	-3.0	-3.8	-4.2	-2.3	-2.4	-2.4	-2.1	-5.8	-2.1
3-Feb	-1.8	-1.9	-2.2	-2.4	-2.6	-2.7	-2.9	-3.3	-3.7	-3.7	-3.8	-3.7	-3.7	-3.6	-3.6	-3.6	-3.6	-3.5	-3.4	-3.2	-3.0	-2.9	-2.7	-2.5	-3.1	-1.8
4-Feb	-2.1	-1.5	-1.3	-1.0	-0.8	-1.0	-0.8	0.1	1.3	1.4	4.2	6.8	9.0	9.7	9.7	9.4	7.6	6.5	6.3	6.4	6.4	6.0	6.2	5.6	3.9	9.7
5-Feb	4.8	6.2	6.5	5.5	7.3	8.3	7.6	6.3	3.5	0.0	-3.9	-5.6	-6.5	-7.2	-7.1	-7.4	-7.9	-9.0	-10.0	-10.1	-10.3	-10.7	-11.4	-11.5	-2.6	8.3
6-Feb	-11.7	-11.9	-11.5	-11.1	-10.5	-10.3	-10.0	-9.5	-8.5	-7.4	-6.0	-3.6	-0.7	-1.6	-2.0	-1.9	-2.6	-3.7	-3.9	-3.0	-2.7	-2.4	-2.6	-4.1	-6.0	-0.7
7-Feb	-6.9	-4.4	-4.1	-4.2	-3.6	-3.7	-6.2	-5.8	-6.2	-6.5	-7.3	-7.0	-6.9	-6.5	-6.2	-6.1	-6.4	-7.4	-7.8	-8.0	-8.0	-8.1	-8.0	-7.9	-6.4	-3.6
8-Feb	-8.2	-8.5	-8.4	-7.1	-6.0	-5.9	-5.1	-5.2	-4.1	-2.2	-1.3	-1.9	-3.4	-4.3	-4.7	-4.9	-5.3	-5.6	-6.2	-6.6	-6.9	-7.9	-8.4	-9.0	-5.7	-1.3
9-Feb	-9.6	-9.9	-10.1	-10.4	-10.5	-10.4	-9.5	-9.1	-8.2	-8.2	-6.3	-5.3	-4.0	-3.4	-4.6	-6.0	-7.3	-7.9	-8.1	-8.6	-9.2	-9.2	-9.6	-9.9	-8.1	-3.4
10-Feb	-9.8	-10.0	-10.1	-10.1	-10.1	-10.0	-9.9	-9.7	-9.8	-9.1	-5.5	-2.6	-0.5	0.3	0.4	0.8	0.5	-0.4	-0.6	-1.2	-2.3	-2.8	-3.2	-3.4	-5.0	0.8
11-Feb	-3.7	-3.2	-3.7	-4.2	-5.0	-5.3	-5.9	-5.4	-5.4	-4.1	-2.1	1.1	2.8	4.0	4.1	4.3	3.1	1.8	0.8	-0.3	0.1	-0.5	-0.4	0.0	-1.1	4.3
12-Feb	0.9	1.8	1.8	0.9	0.4	-0.1	-0.8	-1.2	-1.3	-0.1	1.4	2.6	4.1	5.0	5.2	5.2	5.0	3.8	2.8	1.8	1.8	2.0	3.6	3.2	2.1	5.2
13-Feb	2.1	1.6	1.8	1.6	1.1	0.9	0.5	-0.1	-0.4	0.4	1.4	3.0	4.4	4.5	5.0	4.6	3.3	1.6	0.3	-0.8	-0.3	-0.6	-1.0	-0.7	1.4	5.0
14-Feb	-1.3	-2.3	-1.4	-1.2	-3.6	-3.2	-5.1	-3.2	-2.0	-1.8	-0.8	0.7	1.8	3.2	3.6	3.5	1.6	-0.5	-1.0	-1.5	-2.1	-2.8	-3.5	-4.2	-1.1	3.6
15-Feb	-4.8	-5.0	-4.6	-5.5	-6.2	-6.3	-6.4	-7.0	-7.0	-6.6	-6.2	-5.9	-6.3	-6.9	-7.7	-8.5	-9.5	-12.2	-13.7	-15.0	-16.1	-17.4	-18.5	-20.2	-9.3	-4.6
16-Feb	-21.3	-22.2	-22.9	-23.5	-24.2	-25.0	-25.7	-26.0	-25.6	-24.2	-21.8	-19.6	-18.3	-16.9	-16.0	-16.2	-17.5	-19.0	-19.9	-20.8	-21.4	-21.7	-21.9	-21.9	-21.4	-16.0
17-Feb	-21.9	-22.0	-22.3	-22.3	-22.3	-22.3	-22.6	-23.2	-23.1	-22.6	-22.5	-22.7	-23.0	-22.9	-22.9	-23.0	-23.5	-24.0	-24.5	-24.9	-25.2	-25.6	-26.2	-26.6	-23.4	-21.9
18-Feb	-26.9	-27.4	-27.7	-27.9	-28.2	-28.4	-29.1	-29.6	-29.8	-29.7	-29.3	-28.0	-27.1	-26.6	-25.5	-26.3	-27.1	-28.1	-29.7	-31.1	-31.9	-32.5	-32.9	-32.9	-28.9	-25.5
19-Feb	-31.5	-31.1	-31.1	-31.5	-31.6	-31.8	-32.8	-31.5	-31.4	-29.4	-26.0	-23.9	-22.0	-21.4	-20.0	-19.4	-20.0	-21.3	-22.9	-23.5	-23.2	-23.6	-24.7	-25.1	-26.3	-19.4
20-Feb	-25.3	-25.6	-25.5	-25.4	-25.2	-25.2	-25.5	-25.0	-25.2	-21.5	-17.5	-16.0	-13.1	-13.4	-13.0	-13.0	-13.1	-14.2	-14.8	-14.9	-15.4	-16.2	-16.6	-17.1	-19.1	-13.0
21-Feb	-17.6	-18.0	-19.0	-19.8	-20.6	-21.7	-22.4	-23.0	-23.3	-22.4	-22.7	-21.3	-20.4	-20.0	-19.7	-19.5	-19.8	-20.1	-20.4	-20.4	-20.3	-20.1	-20.0	-20.3	-20.5	-17.6
22-Feb	-20.5	-20.5	-20.9	-21.4	-21.7	-21.8	-21.7	-21.4	-20.8	-19.9	-18.8	-17.6	-17.3	-16.7	-16.5	-16.7	-17.0	-17.5	-17.7	-17.9	-18.2	-18.1	-18.2	-18.3	-19.0	-16.5
23-Feb	-18.6	-18.9	-19.1	-19.0	-19.0	-19.1	-19.4	-19.8	-19.1	-17.0	-16.1	-15.7	-15.6	-15.5	-15.4	-15.1	-15.3	-15.9	-16.4	-16.5	-16.6	-16.7	-16.8	-17.1	-17.2	-15.1
24-Feb	-17.2	-17.4	-17.9	-18.0	-17.7	-17.9	-19.2	-20.0	-19.2	-16.9	-15.5	-13.1	-11.9	-11.0	-9.8	-9.9	-10.2	-10.7	-11.3	-11.6	-11.7	-11.7	-11.6	-11.6	-14.3	-9.8
25-Feb	-11.4	-11.1	-11.0	-11.0	-10.8	-9.8	-10.4	-10.2	-10.1	-7.4	-4.7	-2.9	-1.2	-0.9	-0.4	-0.3	-1.0	-1.8	-2.4	-3.0	-3.1	-3.3	-3.8	-5.5	-5.7	-0.3
26-Feb	-6.2	-6.4	-6.6	-6.7	-7.2	-7.7	-7.8	-8.5	-8.7	-7.2	-3.0	0.9	0.3	-1.0	-5.2	-9.8	-11.7	-12.8	-13.7	-15.4	-18.7	-19.9	-20.4	-21.2	-9.4	0.9
27-Feb	-22.5	-23.6	-24.8	-25.8	-26.6	-27.3	-28.0	-28.5	-27.9	-26.0	-24.8	-23.2	-22.8	-20.9	-19.6	-19.6	-20.2	-21.9	-23.9	-25.7	-27.1	-27.9	-29.5	-29.6	-24.9	-19.6
28-Feb	-29.8	-29.7	-29.5	-29.0	-28.7	-27.8	-27.4	-27.8	-26.7	-24.2	-21.7	-18.2	-16.1	-14.9	-13.9	-12.8	-12.9	-13.7	-14.2	-14.6	-15.9	-17.0	-17.8	-18.3	-20.9	-12.8
	-12.2	-12.3	-12.4	-12.5	-12.7	-12.7	-13.1	-13.1	-13.0	-12.0	-10.6	-9.2	-8.3	-7.9	-7.8	-8.0	-8.7	-9.6	-10.4	-10.9	-11.2	-11.6	-11.9	-12.2	Diurnal Average	
	4.8	6.2	6.5	5.5	7.3	8.3	7.6	6.3	3.5	1.4	4.2	6.8	9.0	9.7	9.7	9.4	7.6	6.5	6.3	6.4	6.4	6.0	6.2	5.6	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Stony Mountain - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	159	23.66	23.66
-20 - 0	429	63.84	87.50
0 - 10	84	12.50	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 2m (RH2) - %

Stony Mountain - February 2026

Maximum Value: 98.1 % on Feb 3 01:00

Maximum Daily Average: 95.9 % on Feb 3

Minimum Value: 28.5 % on Feb 13 16:00

Minimum Daily Average: 39.1 % on Feb 13

Maximum Diurnal Average: 81.1 % at hour 8

Minimum Diurnal Average: 66.8 % at hour 15

Monthly Average: 75.83 %

Percentiles: P_1 = 36.7 P_{10} = 53.8 Q_1 = 67.9 Median = 77.5 Q_3 = 88.9 P_{90} = 93.9 P_{99} = 97.5

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

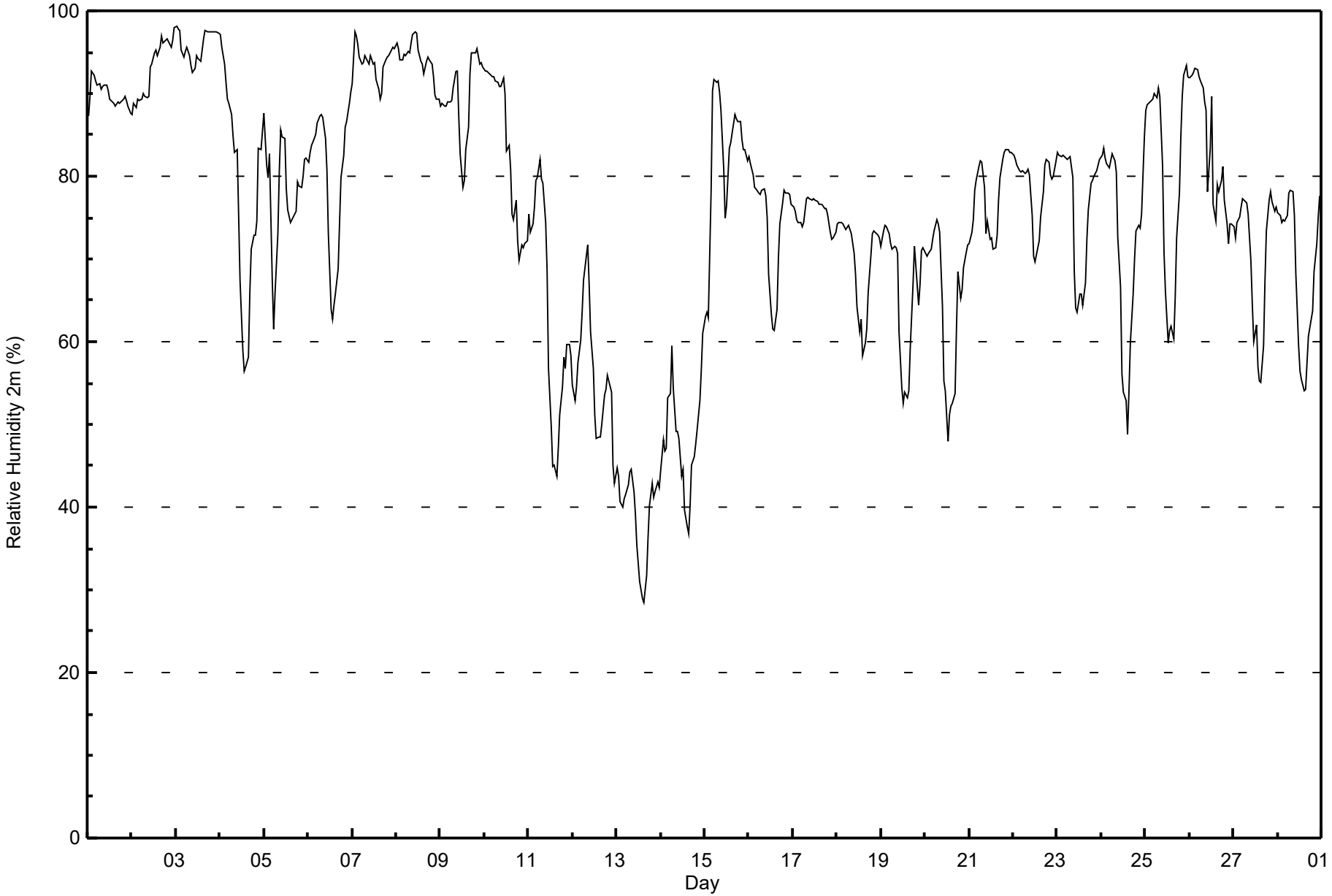
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	87.3	89.6	92.8	92.3	91.5	91.1	91.2	90.5	90.8	91.1	91.0	90.4	89.3	89.0	88.9	88.5	89.0	88.9	89.0	89.4	89.6	89.2	88.5	87.7	89.9	92.8
2-Feb	87.5	88.8	88.4	89.3	89.2	89.3	90.1	89.7	89.5	89.7	93.2	93.6	94.9	95.2	94.6	95.5	96.9	96.1	96.4	96.7	96.3	95.5	96.5	98.0	92.9	98.0
3-Feb	98.1	97.9	97.6	95.3	94.3	95.1	95.6	94.6	93.5	92.5	93.1	94.6	94.2	93.9	95.2	96.7	97.6	97.4	97.4	97.4	97.5	97.5	97.4	97.3	95.9	98.1
4-Feb	97.2	95.6	93.6	91.3	89.3	88.9	87.4	84.9	82.9	83.2	75.4	67.5	59.0	56.4	56.9	58.2	65.8	71.2	72.9	72.9	74.6	83.4	83.3	85.4	78.2	97.2
5-Feb	87.6	81.4	79.9	82.7	67.5	61.5	66.0	73.0	80.5	85.6	84.8	84.5	78.5	76.0	74.4	74.8	75.1	75.8	79.2	78.9	78.6	79.9	82.0	82.1	77.9	87.6
6-Feb	81.6	82.9	83.8	84.6	85.1	86.4	87.3	87.5	87.1	84.6	80.7	73.1	63.8	62.7	64.3	65.8	68.9	74.4	79.8	82.5	86.0	86.5	88.9	90.2	79.9	90.2
7-Feb	91.3	97.5	96.9	95.9	94.3	93.6	93.7	94.6	93.9	93.5	94.6	93.6	93.7	91.7	90.5	89.2	90.0	93.2	94.1	94.4	94.5	95.3	95.7	95.4	93.8	97.5
8-Feb	96.0	95.4	94.2	94.1	94.7	94.5	95.1	94.9	96.0	97.1	97.5	97.2	95.3	94.0	93.5	92.4	93.9	94.4	94.1	93.6	92.1	89.8	89.3	89.3	94.1	97.5
9-Feb	88.4	88.7	88.4	88.5	89.0	88.9	89.1	90.7	92.8	92.6	87.4	82.7	78.6	79.5	83.3	86.0	92.3	95.0	95.0	95.0	95.4	93.6	93.7	93.2	89.5	95.4
10-Feb	92.8	92.8	92.5	92.4	92.0	92.0	91.5	91.3	90.8	90.9	91.9	90.0	83.1	83.7	80.8	75.4	74.8	77.1	72.1	69.8	71.8	71.3	71.9	72.2	83.5	92.8
11-Feb	75.3	73.1	74.3	76.3	79.5	79.8	82.0	79.7	79.1	74.4	68.6	56.7	49.6	45.0	45.0	43.7	47.2	51.2	54.5	58.1	56.8	59.7	59.7	58.2	63.7	82.0
12-Feb	54.7	53.0	54.6	57.5	60.2	63.6	67.4	70.4	71.7	67.0	61.2	56.8	51.2	48.3	48.5	48.5	50.0	53.5	54.2	56.0	54.6	54.0	45.0	42.9	56.0	71.7
13-Feb	44.7	43.8	40.6	40.0	41.0	41.5	42.7	44.2	44.6	41.9	39.1	35.4	31.0	30.1	29.0	28.5	31.6	36.3	40.2	42.9	41.1	41.9	43.1	42.4	39.1	44.7
14-Feb	44.4	48.2	46.8	47.2	53.2	53.8	59.6	54.4	49.2	49.1	48.3	43.7	44.6	39.7	37.6	36.9	40.1	45.0	46.1	47.7	49.4	52.9	56.6	60.9	48.1	60.9
15-Feb	63.1	63.5	63.0	78.3	90.3	91.8	91.4	91.4	90.1	87.9	80.8	75.0	76.4	83.4	84.2	85.2	87.5	87.0	86.6	86.7	84.4	83.2	83.2	81.8	82.3	91.8
16-Feb	82.3	81.5	80.2	78.7	78.5	78.0	77.8	78.3	78.4	77.6	75.0	68.1	63.3	61.6	61.3	63.8	70.2	74.2	76.7	78.2	77.9	77.9	77.8	76.7	74.8	82.3
17-Feb	76.3	75.7	74.8	74.4	74.4	74.0	74.4	77.3	77.5	77.3	77.1	77.3	77.2	76.9	76.7	76.7	76.6	76.1	76.0	75.4	73.3	72.4	72.5	73.3	75.6	77.5
18-Feb	74.3	74.4	74.4	74.2	73.9	73.6	74.0	73.6	73.0	70.7	68.1	64.3	61.1	62.7	58.3	59.9	61.6	65.9	70.4	73.0	73.4	73.3	72.9	72.5	69.7	74.4
19-Feb	71.5	73.3	74.1	73.9	73.1	71.8	71.1	71.5	71.3	70.7	61.2	54.3	52.5	53.9	53.3	54.1	59.2	66.9	71.5	69.1	64.4	66.9	71.1	71.3	66.3	74.1
20-Feb	70.7	70.3	70.6	71.2	72.3	73.4	74.8	74.2	73.2	64.2	55.3	54.1	47.9	51.2	52.3	52.6	53.8	61.8	68.4	65.2	66.2	69.0	70.9	71.8	64.8	74.8
21-Feb	71.9	73.2	74.8	78.3	79.6	81.3	81.9	81.7	78.6	73.0	74.6	72.4	72.5	71.2	71.4	72.9	77.1	79.9	82.0	82.9	83.2	83.2	82.8	82.8	77.6	83.2
22-Feb	82.6	82.0	81.3	80.7	80.5	80.6	80.4	80.5	80.9	80.1	75.2	70.4	69.6	71.3	72.3	75.2	78.1	81.3	82.0	81.7	80.1	79.6	79.9	81.9	78.7	82.6
23-Feb	82.8	82.6	82.4	82.6	82.5	82.0	82.1	82.4	79.8	68.5	64.0	63.6	65.7	65.8	64.5	67.1	72.3	75.9	79.1	79.5	80.1	80.6	81.4	82.1	76.2	82.8
24-Feb	82.6	83.3	82.2	81.5	81.1	81.8	82.7	81.9	80.4	72.7	66.5	56.0	54.0	52.8	48.9	54.0	59.9	65.8	70.1	73.3	74.0	73.8	75.4	84.7	71.6	84.7
25-Feb	87.9	88.7	89.1	89.1	89.3	90.0	89.5	90.6	89.6	81.1	70.8	66.2	59.8	61.4	61.8	60.3	65.5	72.6	77.9	84.7	89.6	92.1	93.3	92.1	80.5	93.3
26-Feb	91.9	92.3	92.6	93.0	92.9	92.1	91.6	90.8	89.0	87.9	78.1	83.3	89.7	76.6	74.7	78.9	78.1	79.5	81.1	77.1	74.2	71.9	74.3	74.2	83.6	93.0
27-Feb	73.9	72.6	74.4	75.1	76.2	77.3	76.9	76.8	75.4	69.6	64.4	60.1	62.0	56.9	55.2	55.1	59.5	67.3	73.4	77.1	78.1	77.0	75.8	76.3	70.3	78.1
28-Feb	75.6	75.2	74.3	74.7	74.6	75.2	78.0	78.3	78.2	75.3	68.3	59.4	56.4	55.4	54.1	54.2	57.4	60.6	62.8	63.7	68.6	71.8	75.0	77.6	68.5	78.3
	79.1	79.2	79.0	79.7	80.0	80.1	80.9	81.1	80.6	78.2	74.5	70.9	68.4	67.4	66.8	67.5	70.4	73.7	75.8	76.5	76.6	77.3	77.8	78.4	Diurnal Average	
	98.1	97.9	97.6	95.9	94.7	95.1	95.6	94.9	96.0	97.1	97.5	97.2	95.3	95.2	95.2	96.7	97.6	97.4	97.4	97.4	97.5	97.5	97.4	98.0	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Stony Mountain - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Precipitation (PC) - mm

Stony Mountain - February 2026

Maximum Value: 1.7 mm on Feb 25 11:00

Maximum Daily Total: 12.9 mm on Feb 17

Minimum Value: 0.0 mm on Feb 1 01:00

Minimum Daily Total: 0.0 mm on Feb 1

Maximum Diurnal Total: 5.1 mm at hour 11

Minimum Diurnal Total: 0.1 mm at hour 23

Monthly Total: 42.87 mm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.2 P_{99} = 1.0

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

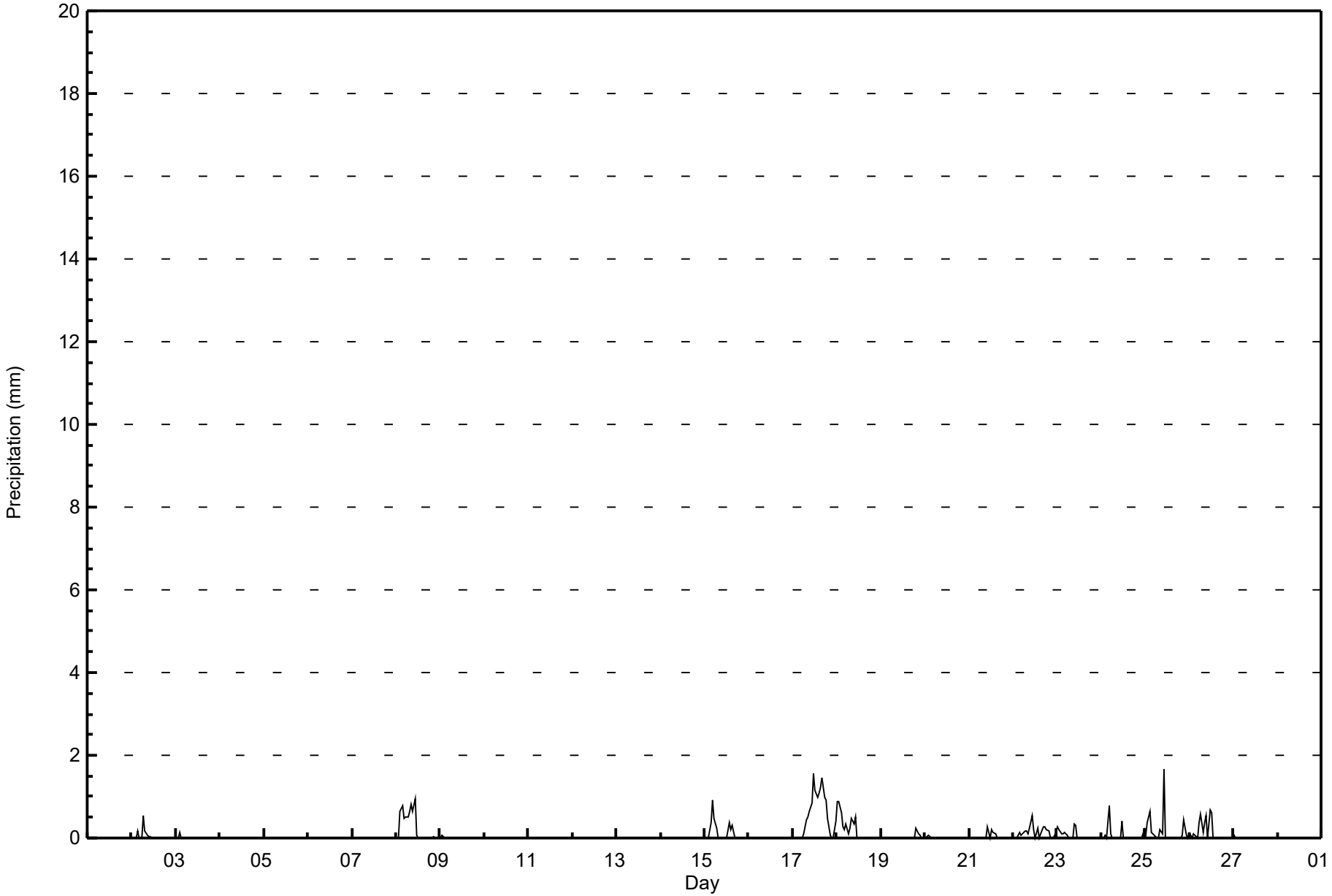
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-Feb	0.0	0.0	0.0	0.2	0.0	0.0	0.5	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
3-Feb	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
4-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-Feb	0.0	0.0	0.6	0.8	0.5	0.5	0.5	0.6	0.8	0.7	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	6.1	1.0
9-Feb	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
10-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Feb	0.0	0.0	0.0	0.4	0.9	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.9
16-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.5	0.7	0.9	1.6	1.2	1.0	1.1	1.2	1.5	1.0	0.9	0.5	0.1	0.0	0.0	0.4	12.9	1.6
18-Feb	0.9	0.9	0.6	0.3	0.2	0.4	0.1	0.3	0.5	0.3	0.5	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	4.8	0.9
19-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.4	0.2
20-Feb	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
21-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3
22-Feb	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.5	0.2	0.0	0.2	0.0	0.1	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.1	3.1	0.5
23-Feb	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.3
24-Feb	0.0	0.0	0.1	0.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	0.8
25-Feb	0.1	0.4	0.6	0.2	0.1	0.1	0.0	0.0	0.2	0.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.0	4.0	1.7
26-Feb	0.1	0.0	0.1	0.1	0.0	0.4	0.6	0.1	0.4	0.5	0.0	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.7
27-Feb	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
28-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.4	1.5	2.4	2.0	2.7	2.0	2.2	1.8	2.6	2.9	5.1	3.0	2.0	1.7	1.4	1.6	1.8	1.3	1.1	0.9	0.3	0.5	0.1	0.7	Diurnal Average	
	0.9	0.9	0.6	0.8	0.9	0.5	0.6	0.6	0.8	0.7	1.7	1.6	1.2	1.0	1.1	1.2	1.5	1.0	0.9	0.5	0.1	0.4	0.1	0.4	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Precipitation (PC) - mm

Stony Mountain - February 2026



Concentration Ranges (mm)	Number of Hours	%	Cumulative %
0 - 0.3	626	93.15	93.15
0.4 - 0.5	20	2.98	96.13
0.6 - 0.7	9	1.34	97.47
0.8 - 1.4	14	2.08	99.55
1.5 - 10	2	0.30	99.85
> 10	0	0.00	99.85

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 51.3 % on Feb 26 13:00

Maximum Daily Average: 4.9 % on Feb 26

Minimum Value: 0.5 % on Feb 13 16:00

Minimum Daily Average: 1.0 % on Feb 13

Maximum Diurnal Average: 3.9 % at hour 13

Minimum Diurnal Average: 1.7 % at hour 16

Monthly Average: 2.26 %

Percentiles: P_1 = 0.8 P_{10} = 1.2 Q_1 = 1.4 Median = 1.8 Q_3 = 2.8 P_{90} = 3.7 P_{99} = 5.3

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

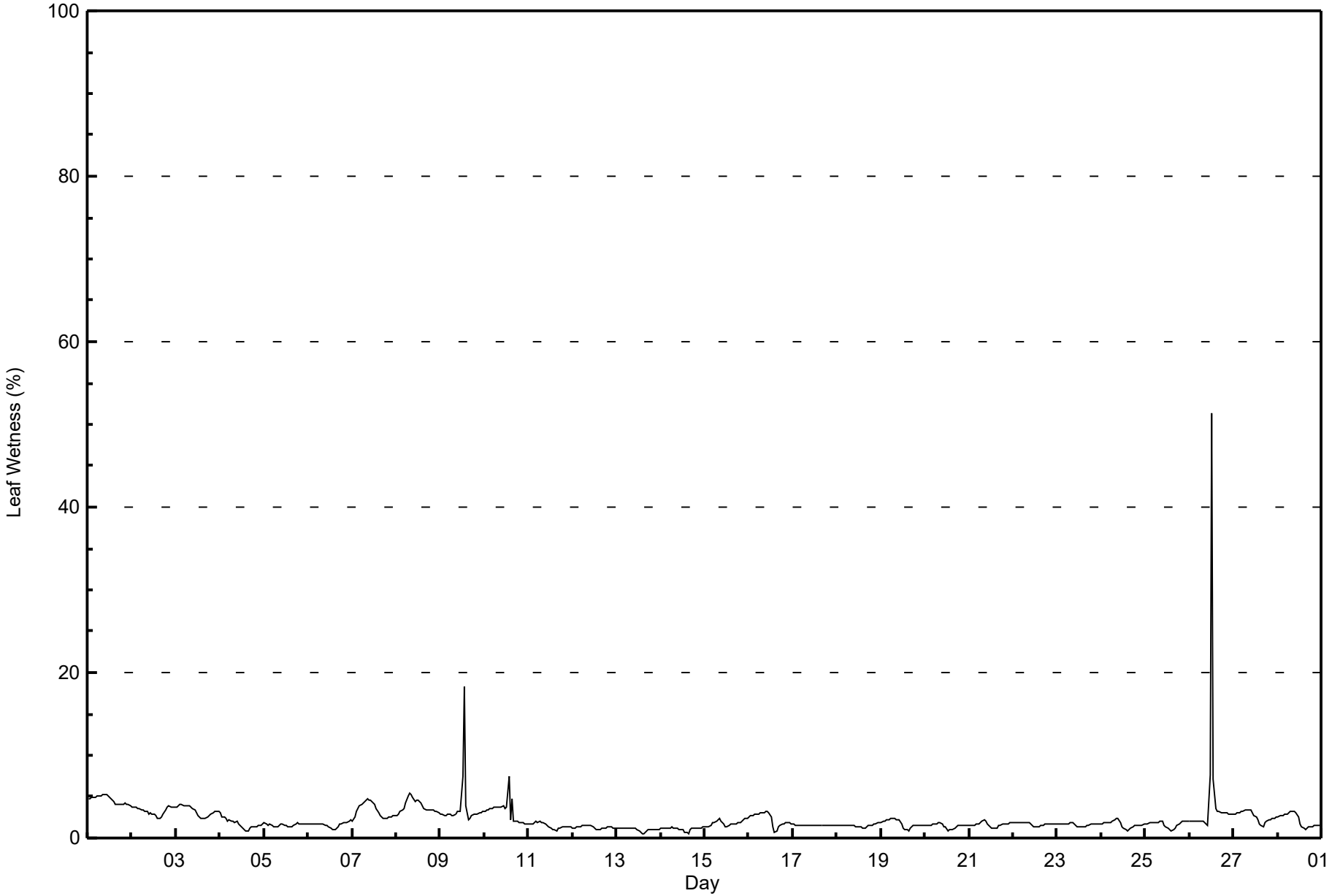
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	4.8	4.8	4.8	4.9	5.0	5.0	5.1	5.2	5.2	5.2	5.2	5.2	4.9	4.6	4.4	4.1	4.0	4.0	4.0	4.1	4.2	4.1	4.0	3.9	4.6	5.2
2-Feb	3.7	3.7	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	3.1	3.0	3.0	2.8	2.4	2.4	2.5	2.9	3.3	3.8	3.8	3.8	3.7	3.7	3.3	3.8
3-Feb	3.8	3.9	4.0	4.0	3.9	3.8	3.8	3.8	3.8	3.6	3.4	3.1	2.8	2.4	2.3	2.4	2.4	2.6	2.7	2.9	3.1	3.2	3.2	3.2	3.3	4.0
4-Feb	3.0	2.5	2.6	2.4	2.1	2.1	2.1	2.0	1.9	2.0	1.7	1.5	1.2	1.0	0.9	0.8	1.3	1.4	1.4	1.4	1.4	1.5	1.6	1.7	1.7	3.0
5-Feb	1.9	1.7	1.6	1.8	1.4	1.3	1.3	1.4	1.5	1.7	1.6	1.6	1.5	1.3	1.3	1.4	1.5	1.6	1.8	1.7	1.6	1.6	1.7	1.7	1.6	1.9
6-Feb	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.5	1.3	1.1	1.0	1.1	1.0	1.3	1.6	1.8	1.8	1.9	1.9	2.0	2.2	1.6	2.2
7-Feb	2.1	2.6	3.2	3.6	3.9	4.1	4.3	4.5	4.7	4.7	4.5	4.3	4.0	3.6	3.1	2.7	2.5	2.4	2.4	2.4	2.5	2.6	2.6	2.7	3.3	4.7
8-Feb	2.8	2.9	3.2	3.3	3.5	4.2	5.1	5.3	5.2	4.9	4.4	4.6	4.6	4.2	3.9	3.6	3.4	3.5	3.4	3.4	3.4	3.3	3.1	3.0	3.9	5.3
9-Feb	2.9	2.8	2.8	2.8	2.8	2.9	2.8	2.7	3.0	3.2	3.3	3.2	7.4	18.2	3.9	2.1	2.4	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.7	18.2
10-Feb	3.2	3.3	3.4	3.5	3.6	3.7	3.7	3.7	3.7	3.8	3.9	3.6	3.8	7.5	2.2	4.7	2.0	2.1	2.0	1.9	1.8	1.8	1.8	1.7	3.2	7.5
11-Feb	1.8	1.7	1.8	1.8	2.0	1.9	2.0	1.9	1.9	1.7	1.6	1.4	1.2	1.0	1.0	0.8	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.5	2.0
12-Feb	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.5	1.4	1.3	1.2	1.0	1.0	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.3	1.6
13-Feb	1.2	1.2	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.0	0.8	0.7	0.5	0.5	0.8	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.2
14-Feb	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.1	1.0	0.9	0.7	0.7	0.6	0.9	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.1	1.3
15-Feb	1.3	1.4	1.3	1.5	1.8	1.9	2.0	2.2	2.3	2.0	1.6	1.4	1.4	1.5	1.6	1.7	1.8	1.7	1.8	1.9	2.1	2.3	2.3	2.4	1.8	2.4
16-Feb	2.6	2.7	2.8	2.8	2.9	2.9	3.0	3.1	3.1	3.1	3.2	3.1	2.5	1.3	0.7	0.8	1.4	1.6	1.7	1.8	1.8	1.8	1.8	1.8	2.3	3.2
17-Feb	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.6	1.6	1.7
18-Feb	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.3	1.3	1.3	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.5	1.9
19-Feb	1.9	2.0	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.1	1.8	1.2	1.1	1.0	0.9	1.2	1.5	1.6	1.6	1.5	1.5	1.6	1.6	1.7	2.3
20-Feb	1.6	1.6	1.6	1.6	1.6	1.7	1.8	1.8	1.9	1.7	1.3	1.3	0.9	1.0	1.0	1.1	1.2	1.3	1.5	1.4	1.5	1.5	1.5	1.5	1.5	1.9
21-Feb	1.5	1.5	1.6	1.6	1.7	1.7	1.9	2.1	2.2	2.0	1.7	1.4	1.2	1.2	1.2	1.3	1.5	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.6	2.2
22-Feb	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.5	1.3	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.9
23-Feb	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.7	1.5	1.3	1.4	1.4	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.6	1.8
24-Feb	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.2	2.4	2.3	1.9	1.4	1.2	1.0	0.9	1.1	1.2	1.4	1.5	1.5	1.5	1.5	1.5	1.7	1.6	2.4
25-Feb	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.1	1.5	1.3	1.1	1.0	0.9	1.0	1.2	1.5	1.6	1.9	2.0	2.0	2.0	2.1	1.7	2.1
26-Feb	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	1.8	1.7	1.5	7.7	51.3	7.2	3.5	3.3	3.2	3.1	3.1	3.0	3.0	2.9	2.9	2.9	4.9	51.3
27-Feb	2.9	2.9	3.0	3.0	3.2	3.2	3.3	3.4	3.4	3.3	3.1	2.6	2.5	2.1	1.8	1.5	1.4	1.8	2.0	2.1	2.2	2.3	2.4	2.5	2.6	3.4
28-Feb	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.2	3.2	3.2	3.1	2.6	1.7	1.4	1.2	1.1	1.2	1.4	1.4	1.4	1.4	1.5	1.5	1.5	2.1	3.2
	2.2	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.5	2.5	2.3	2.4	3.9	2.7	1.7	1.7	1.7	1.9	2.0	2.0	2.0	2.0	2.1	2.1	Diurnal Average	
	4.8	4.8	4.8	4.9	5.0	5.0	5.1	5.3	5.2	5.2	5.2	7.7	51.3	18.2	4.4	4.7	4.0	4.0	4.0	4.1	4.2	4.1	4.0	3.9	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Leaf Wetness (LW) - %

Stony Mountain - February 2026



Leaf Wetness (LW) - %

Stony Mountain - February 2026

Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 0.3	0	0.00	0.00
0.4 - 0.5	2	0.30	0.30
0.6 - 0.7	5	0.74	1.04
0.8 - 1.4	163	24.26	25.30
1.5 - 10	478	71.13	96.43
> 10	2	0.30	96.73

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Global Radiation (GR) - W/m2

Stony Mountain - February 2026

Maximum Value: 504.4 W/m2 on Feb 20 13:00

Maximum Daily Average: 117.5 W/m2 on Feb 28

Minimum Value: 0.0 W/m2 on Feb 1 01:00

Minimum Daily Average: 12.1 W/m2 on Feb 8

Maximum Diurnal Average: 244.1 W/m2 at hour 13

Minimum Diurnal Average: 0.1 W/m2 at hour 7

Monthly Average: 54.88 W/m2

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.5 Q_3 = 61.6 P_{90} = 212.9 P_{99} = 435.1

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

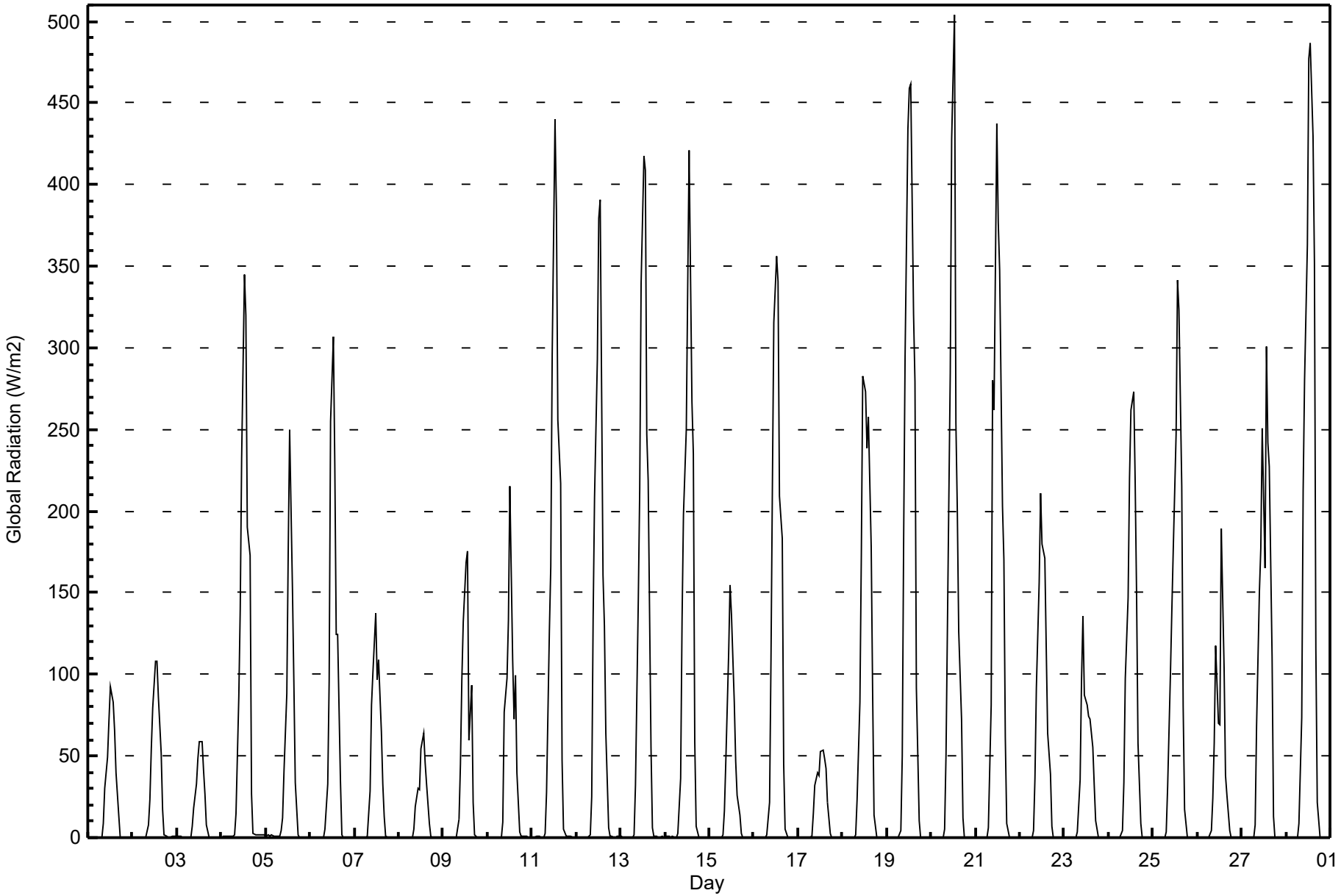
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	30.3	49.2	71.9	92.1	83.4	66.0	39.4	13.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	18.9	92.1
2-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	7.8	23.6	54.5	79.9	108.0	108.3	86.1	51.8	17.4	1.4	0.5	0.0	0.4	0.5	0.4	0.6	22.6	108.3
3-Feb	0.7	0.5	0.4	0.1	0.1	0.1	0.0	0.1	6.8	17.9	33.3	48.6	58.4	58.7	41.1	27.1	8.2	0.4	0.0	0.1	0.2	0.1	0.2	0.3	12.6	58.7
4-Feb	0.3	0.6	0.6	0.8	0.8	0.8	0.9	1.5	14.7	86.9	139.7	232.8	344.8	320.1	189.8	172.7	27.2	2.8	1.7	1.7	1.6	1.4	1.4	1.3	64.5	344.8
5-Feb	1.3	1.5	1.2	1.3	1.2	1.0	0.9	1.0	4.2	11.8	41.0	87.9	175.6	250.2	151.7	95.0	33.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	35.9	250.2
6-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.4	32.7	96.0	255.4	306.7	228.1	124.8	124.3	34.4	2.0	0.2	0.4	0.2	0.2	0.3	0.4	50.5	306.7
7-Feb	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.6	28.2	81.2	101.0	137.3	97.1	109.3	65.0	32.6	13.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	137.3
8-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	4.8	19.1	30.1	29.5	54.7	64.3	46.1	32.7	9.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	12.1	64.3
9-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	11.3	44.9	97.0	132.7	168.2	175.4	60.0	93.0	21.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	33.6	175.4
10-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	9.9	76.6	97.8	132.9	215.5	108.8	72.2	99.4	39.5	3.5	0.8	0.8	0.7	0.6	0.4	0.3	35.8	215.5
11-Feb	0.2	0.4	0.5	0.5	0.5	0.2	0.2	2.2	27.2	125.8	166.3	295.4	439.8	384.2	255.7	216.6	47.3	5.0	0.8	0.8	0.8	0.6	0.3	0.3	82.1	439.8
12-Feb	0.3	0.2	0.2	0.2	0.1	0.1	0.1	1.6	25.5	133.6	208.6	293.3	379.9	390.7	160.9	129.4	64.0	5.7	0.7	0.7	0.4	0.4	0.5	0.5	74.9	390.7
13-Feb	0.7	0.3	0.3	0.1	0.1	0.2	0.2	1.6	32.4	145.3	212.5	339.9	417.7	408.7	247.5	218.4	55.3	5.7	0.7	0.7	0.4	0.4	0.5	0.3	87.1	417.7
14-Feb	0.5	0.6	0.4	0.4	0.4	0.4	0.3	3.0	36.3	133.1	198.2	250.1	337.5	421.2	267.4	234.8	59.1	6.5	0.3	0.1	0.1	0.0	0.0	0.0	81.3	421.2
15-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	16.6	46.8	112.1	154.3	136.7	83.0	47.1	25.9	13.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	26.7	154.3
16-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	21.4	108.8	214.8	315.8	356.1	341.0	208.8	182.9	45.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	75.1	356.1
17-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	14.6	32.2	39.8	37.7	52.8	53.2	48.5	42.7	21.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	14.5	53.2
18-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	23.5	83.3	173.0	282.9	273.1	238.6	257.9	178.1	89.5	13.6	0.0	0.0	0.0	0.0	0.1	0.0	67.3	282.9
19-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	49.8	184.6	294.7	434.1	458.8	461.4	321.1	279.1	91.3	10.2	0.3	0.0	0.0	0.0	0.0	0.0	107.9	461.4
20-Feb	0.0	0.0	0.0	0.0	0.1	0.0	0.0	5.3	51.4	207.5	284.7	427.8	504.4	254.4	200.8	126.4	72.3	12.1	0.0	0.0	0.0	0.0	0.0	0.0	89.5	504.4
21-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	81.3	280.3	262.0	437.8	376.5	347.4	203.1	170.6	61.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	93.1	437.8
22-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	36.6	91.9	156.6	211.2	179.7	171.1	115.6	63.5	38.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0	44.8	211.2
23-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	35.4	97.0	135.5	87.0	80.8	74.2	72.9	55.7	32.3	10.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5	135.5
24-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	33.5	97.3	147.1	220.3	261.9	273.5	217.8	148.8	57.7	9.0	0.1	0.0	0.0	0.0	0.0	0.0	61.3	273.5
25-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	31.1	101.0	139.9	177.6	247.4	341.3	323.7	215.3	80.3	17.5	0.3	0.0	0.0	0.0	0.0	0.0	69.9	341.3
26-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	24.2	58.2	117.8	69.8	68.8	189.6	103.3	37.6	25.8	4.3	0.1	0.0	0.0	0.0	0.0	0.0	29.3	189.6
27-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	68.1	150.6	177.5	250.5	164.9	300.9	242.2	227.7	110.4	12.8	0.2	0.0	0.0	0.0	0.0	0.0	71.4	300.9
28-Feb	0.0	0.1	0.0	0.0	0.0	0.0	0.0	8.6	73.8	212.9	279.9	362.6	477.0	486.4	429.7	351.7	116.2	21.7	0.3	0.0	0.0	0.0	0.0	0.0	117.5	486.4
	0.1	0.2	0.1	0.1	0.1	0.1	0.1	2.5	28.0	97.0	145.0	209.2	244.1	240.3	165.2	131.2	46.4	6.3	0.2	0.2	0.2	0.1	0.1	0.1	Diurnal Average	
	1.3	1.5	1.2	1.3	1.2	1.0	0.9	8.6	81.3	280.3	294.7	437.8	504.4	486.4	429.7	351.7	116.2	21.7	1.7	1.7	1.6	1.4	1.4	1.3	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Global Radiation (GR) - W/m2

Stony Mountain - February 2026



Concentration Ranges (W/m2)	Number of Hours	%	Cumulative %
0 - 20	439	65.33	65.33
21 - 100	105	15.63	80.95
101 - 300	96	14.29	95.24
301 - 600	32	4.76	100.00
601 - 900	0	0.00	100.00
> 900	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 20m (WS20) - km/h

Stony Mountain - February 2026

Maximum Speed: 29 km/h on Feb 5 09:00

Maximum Daily Speed Average: 20.3 km/h on Feb 17

Minimum Speed Value: 2 km/h on Feb 10 05:00

Minimum Daily Speed Average: 0.7 km/h on Feb 7

Maximum Diurnal Speed Average: 4.9 km/h at hour 7

Minimum Diurnal Speed Average: 1.3 km/h at hour 19

Monthly Average Velocity: 3.3 km/h 266.7 deg

Percentiles: $P_1 = 2$ $P_{10} = 5$ $Q_1 = 7$ Median = 10 $Q_3 = 14$ $P_{90} = 18$ $P_{99} = 24$

Hours in Service: 672

Hours of Data: 672

Hours of Missing Data: 0

Percent Operational Time: 100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NNE4	ENE5	ESE6	SE7	ESE6	ESE5	ESE6	ESE6	SE8	SE8	SE8	SSE9	SSE10	SSE10	SSE9	SE9	SE10	SE10	SSE12	SSE10	SSE9	SSE9	S10	SSE9	SE7.4	SSE12
2-Feb	SSE9	S8	SSE9	S9	S11	S13	S12	S14	S15	SSW13	SSW12	SSW11	SSW11	SW10	WSW12	SW11	SW11	SW10	WSW7	NW5	W10	WNW8	NW9	NW8	SSW7.8	SSW15
3-Feb	WNW8	NW8	NNW10	NW12	NW9	NW9	NNW7	NNW7	NNW5	WNW6	WNW4	SW6	SW6	SW6	SW6	S8	S11	S11	S12	S16	S15	S15	S15	S16	SW4.1	S16
4-Feb	S18	SSW19	SSW22	SSW24	SSW25	SW23	SW21	SW21	WSW15	WSW14	W14	WNW16	W17	W19	W18	WNW14	W12	W13	W12	W14	W16	W16	W15	SW13	WSW14.1	SSW25
5-Feb	SW13	WSW16	WSW11	WSW12	W18	WNW22	WNW22	NW22	NW29	NNW20	NNW18	NW18	NW17	NW15	NNW12	NNW11	N8	NNE8	NE6	NE6	E6	E8	E8	E7	NW9.1	NW29
6-Feb	E7	ESE7	ESE9	ESE8	ESE7	E8	ESE7	E7	E8	E7	ESE8	ESE8	E5	N5	NE5	NE5	NNE5	SE6	SSE10	S12	SSW15	SW12	SW13	WSW7	SE4.5	SSW15
7-Feb	SW9	SW15	SW12	SW12	W10	W9	W6	W6	W4	N4	NNE5	NE5	NE6	NE7	E6	NE6	NE6	NE8	ENE8	ENE9	E6	E8	E6	ENE6	NNE0.7	SW15
8-Feb	NE5	NNW6	N3	E4	E3	NW2	NW4	WSW3	SSW9	WSW10	W12	WNW15	NW16	NW15	NW12	WNW14	NW13	NW12	NW11	NNW10	NW8	NW11	NW12	NW10	NW7.4	NW16
9-Feb	NW9	WNW7	W5	WSW5	WSW6	SW5	SW11	SW10	SW8	SW6	SW2	N4	NE4	NE6	NNE6	NNE7	NE8	NE7	ENE6	NE6	NE5	ENE5	NE6	ENE5	N0.9	SW11
10-Feb	ENE4	NE3	NNE3	NE2	NNE2	E2	ESE3	E2	SSE3	SSW5	S5	SSW6	SSW9	SSW11	SSW13	SSW14	SSW14	SSW14	SSW15	SSW16	SSW16	SW17	SW16	SW17	SSW7.3	SW17
11-Feb	SW16	SW16	SW15	SW15	SW14	SW16	SW16	SW16	SW15	SW14	SW15	SW14	WSW15	WSW14	WSW15	WSW15	WSW11	SW12	SW13	SW14	WSW14	SW13	SW15	SW15	SW14.3	SW16
12-Feb	SW14	WSW16	WSW16	WSW17	W16	W17	W16	W17	W18	W17	W14	WSW13	SW13	SW16	SW14	SW13	SSW14	SSW17	SSW19	SSW20	SW19	SW18	WSW17	WSW16	WSW14.8	SSW20
13-Feb	WSW14	WSW15	W19	W21	W21	W21	W21	W19	W19	W19	W19	W16	W17	WNW16	W16	W14	WSW9	WSW9	SW11	WSW12	WSW13	WSW12	WSW12	WSW12	W15.3	W21
14-Feb	WSW12	WSW11	WSW12	WSW12	SW11	WSW11	SW11	WSW15	WSW15	SW12	WSW11	W12	WNW11	W13	WNW13	W12	WNW12	WNW9	W10	W12	W12	W14	WNW13	WNW11	W11.2	WSW15
15-Feb	W8	WSW8	W10	WNW12	WNW9	NW7	WNW8	WNW10	NW12	NW8	NW10	NNW6	NNE8	N8	N10	NNW9	NNE8	NE9	NE9	NE7	NE8	ENE9	NE10	NE9	NNW5.4	NW12
16-Feb	NE10	NE8	ENE7	NE8	NE8	ENE7	ENE6	E7	E6	ENE6	E7	E8	ENE10	ENE11	ENE10	NE11	NE12	NE11	NE12	NE13	NE12	NE12	NE13	NE14	ENE9.1	NE14
17-Feb	NE11	NNE11	NNE15	NNE16	NNE18	NNE18	NNE19	NNE21	NNE21	NNE23	NNE20	NNE20	NNE23	NNE22	NNE23	NNE22	N24	N24	N24	NNE24	NNE26	NNE24	N23	N20	NNE20.3	NNE26
18-Feb	N18	N19	N17	N16	N17	N14	NNW12	NNW13	NNW13	NNW13	NNW13	NNW12	NNW11	NNW11	NW10	NW11	NW9	NW9	NNW6	NW7	WNW6	WNW6	W6	W7	NNW10.6	N19
19-Feb	W11	W11	W9	WSW10	WSW10	WSW10	SW11	WSW11	SW9	SW9	WSW10	WSW9	WSW10	SW13	WSW12	SW10	SW10	SSW10	SSW11	SW15	SW17	SW16	SW17	SW18	SW11.0	SW18
20-Feb	SW17	SW18	SW16	SW13	SW13	SW12	SW13	SW12	SSW11	SW6	SSW4	SSW9	SSW4	SSE6	SSE4	SSE5	ESE3	E5	E6	ENE7	NE7	NE8	NE7	NE8	SSW4.8	SW18
21-Feb	NNE7	NNE8	NNE9	NNE8	NNE8	NNE8	NNE9	NNE10	NE12	NE13	NE15	NE14	NE14	NE11	NE10	NE10	NE10	NE9	NE9	NE9	NE11	ENE9	ENE7	NE8	NE9.7	NE15
22-Feb	ENE9	E9	E9	E8	E7	ESE7	ESE6	E7	E8	ESE8	SE10	ESE11	ESE12	ESE11	ESE12	ESE13	ESE13	ESE11	ESE12	ESE10	ESE11	SE9	SE7	ESE7	ESE9.1	ESE13
23-Feb	ESE6	ESE4	ESE4	ESE3	SE3	SSW2	SW4	SSW5	W6	WNW8	NW6	WNW4	WNW9	W8	WNW10	NW10	NW8	WNW7	WNW8	WNW8	WNW8	WNW9	WNW9	WNW9	WNW4.5	NW10
24-Feb	W10	W10	WNW11	WNW12	WNW13	W11	W12	W11	W11	W10	W10	W12	WSW12	WSW12	W13	W11	SW8	SW7	SSW8	SSW9	SSW10	SSW10	SSW12	S11	WSW9.1	W13
25-Feb	SSE11	SSE11	SSE9	SSE5	SSW7	WSW8	WNW7	NW10	NW9	NW8	WNW9	W9	W10	W10	SW12	W9	WSW8	WNW4	NW5	NNW4	NE2	NE5	NE5	NNE6	W3.4	SW12
26-Feb	NE8	ENE6	E7	E7	NE8	ENE6	ENE3	NNW5	NNW5	SSW4	WSW5	WSW14	WNW21	WNW19	NW23	NW23	NW18	NW20	NW19	NNW22	NNW21	NNW21	NNW19	NNW16	NW9.9	NW23
27-Feb	NNW17	NNW17	NNW16	NNW13	NW12	NW12	NW11	NW11	NNW11	N7	NNW8	NNW8	NNW7	NNW7	N7	N8	NE6	ENE6	NE9	NE9	NNE7	NE7	E5	ESE5	N7.6	NNW17
28-Feb	ESE4	SSE5	S6	SSW10	SW11	SW12	SW13	SW14	SW14	SSW12	SSW13	SSW13	SSW15	SSW16	SSW18	SSW14	SSW13	SSW14	SSW15	SSW19	SSW22	SSW21	SW20	SW20	SSW13.6	SSW22
	WSW2.1	WSW3.0	WSW2.9	WSW3.5	W4.0	W4.5	W4.9	W4.9	W4.6	W3.9	W3.8	W4.2	WNW4.7	W4.6	W4.7	WNW3.9	WNW2.3	W1.5	WSW1.3	WSW1.8	WSW2.6	WSW2.6	WSW3.1	WSW2.7	Diurnal Average	
	N18	N19	SSW22	SSW24	SSW25	SW23	WNW22	NW22	NW29	NNE23	NNE20	NNE20	NNE23	NNE22	NNE23	NW23	N24	N24	N24	NNE24	NNE26	NNE24	N23	N20	Diurnal Maximum	

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 20m (WS20) - km/h

Stony Mountain - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 10 km/h on Feb 5 09:00

Minimum Value: 0 km/h on Feb 28 02:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 3 Q_3 = 4 P_{90} = 5 P_{99} = 7

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

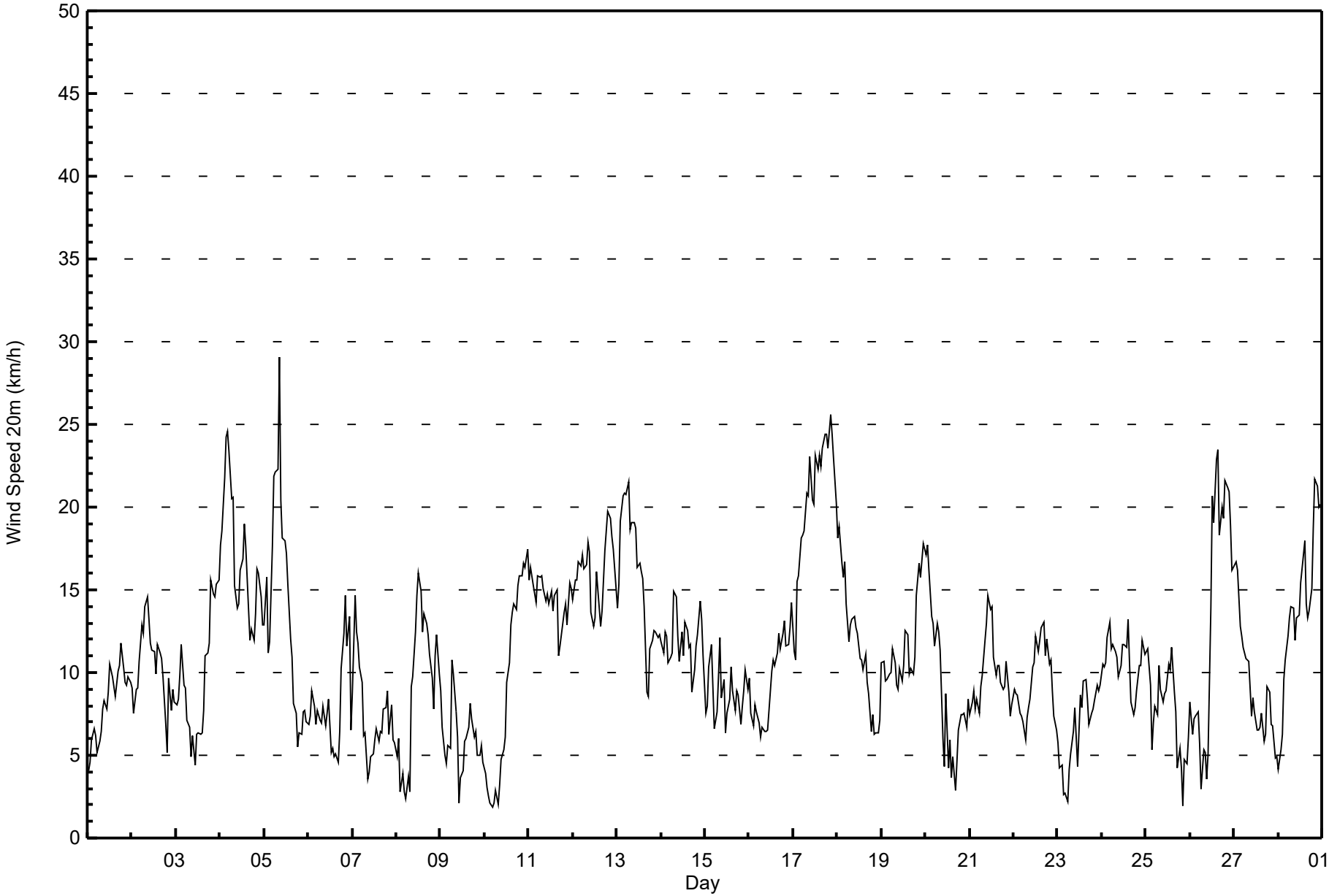
Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	1	2	1	1	1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2	3	2	3
2-Feb	2	2	2	2	2	3	3	3	3	4	4	3	3	3	4	3	3	2	3	2	3	2	2	2	4
3-Feb	2	2	2	3	3	3	2	2	2	2	2	2	3	2	2	3	3	3	4	4	4	4	4	4	4
4-Feb	4	5	5	6	6	6	5	6	5	5	4	5	6	6	7	5	3	3	3	4	5	5	5	3	7
5-Feb	4	5	4	3	6	7	7	8	10	7	6	6	5	5	4	3	3	2	1	1	2	2	2	2	10
6-Feb	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	3	2	3	4	4	4	4	4
7-Feb	4	3	3	3	3	3	2	2	1	2	1	1	2	2	2	2	2	2	2	2	2	2	1	1	4
8-Feb	1	2	2	2	1	1	2	2	2	3	4	5	5	4	4	5	4	4	3	3	3	3	3	3	5
9-Feb	3	2	1	1	1	1	2	3	3	2	1	1	1	1	1	2	2	1	1	1	2	1	1	2	3
10-Feb	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	3	3	3	3	3	3	4	4	4	4
11-Feb	3	4	3	3	3	3	3	3	3	3	4	4	5	5	4	6	3	3	4	3	4	3	4	4	6
12-Feb	4	5	5	5	5	5	5	5	5	5	4	4	5	5	5	4	4	5	5	4	5	5	5	5	5
13-Feb	4	5	6	6	7	6	6	6	6	5	6	6	5	6	6	5	3	2	2	3	3	3	3	3	7
14-Feb	3	3	3	3	2	3	3	3	3	3	3	5	4	4	4	4	4	2	3	3	3	4	4	2	5
15-Feb	2	2	3	3	2	2	2	3	3	2	3	2	2	3	3	3	2	2	2	2	2	2	2	2	3
16-Feb	2	2	2	2	2	1	1	1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4
17-Feb	4	4	4	4	5	5	6	6	6	7	6	6	7	7	8	7	8	7	7	7	8	7	7	6	8
18-Feb	6	6	5	5	5	5	3	4	4	4	4	4	4	3	3	3	3	2	2	1	1	1	1	2	6
19-Feb	3	3	2	2	2	2	3	2	2	3	4	3	4	4	4	4	3	3	2	4	4	4	4	4	4
20-Feb	4	4	3	3	3	2	2	2	3	2	2	2	2	2	2	1	2	1	1	2	2	2	2	2	4
21-Feb	2	2	2	2	2	2	2	2	3	4	4	4	4	4	3	3	3	3	3	2	3	3	2	2	4
22-Feb	2	2	2	2	2	2	1	1	2	2	3	3	3	3	3	4	4	3	3	3	3	3	2	1	4
23-Feb	2	2	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	2	2	2	2	2	2	2	3
24-Feb	3	3	3	3	4	3	3	3	3	3	3	4	4	4	4	4	3	2	2	2	2	2	3	2	4
25-Feb	2	2	2	2	3	3	1	3	2	2	2	3	3	3	4	3	3	1	1	1	1	1	1	2	4
26-Feb	2	2	2	2	2	2	2	2	2	2	5	6	8	7	7	8	6	6	6	7	7	6	6	6	8
27-Feb	5	4	4	3	2	2	2	2	2	2	2	3	3	2	3	2	2	2	2	2	1	1	1	1	5
28-Feb	1	0	1	1	2	2	3	3	3	4	4	4	5	5	5	5	5	4	4	5	6	5	5	5	6
	6	6	6	6	7	7	7	8	10	7	6	6	8	7	8	8	8	7	7	7	8	7	7	6	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 20m (WS20) - km/h

Stony Mountain - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	72	10.71	10.71
6 - 11	323	48.07	58.78
12 - 19	233	34.67	93.45
20 - 28	43	6.40	99.85
29 - 38	1	0.15	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 20m (WS20) - km/h

Stony Mountain - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	4	5	11	5	7	8	1	5	1	6	2	4	2	3	4	4	72
6 - 11	6	17	42	21	24	22	11	15	9	16	23	25	25	25	26	16	323
12 - 19	6	5	12	0	0	5	0	1	10	30	53	32	38	12	15	14	233
20 - 28	5	12	0	0	0	0	0	0	0	6	5	0	4	3	4	4	43
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	21	39	65	26	31	35	12	21	20	58	83	61	69	43	50	38	672

Total Number of Valid Hours: 672

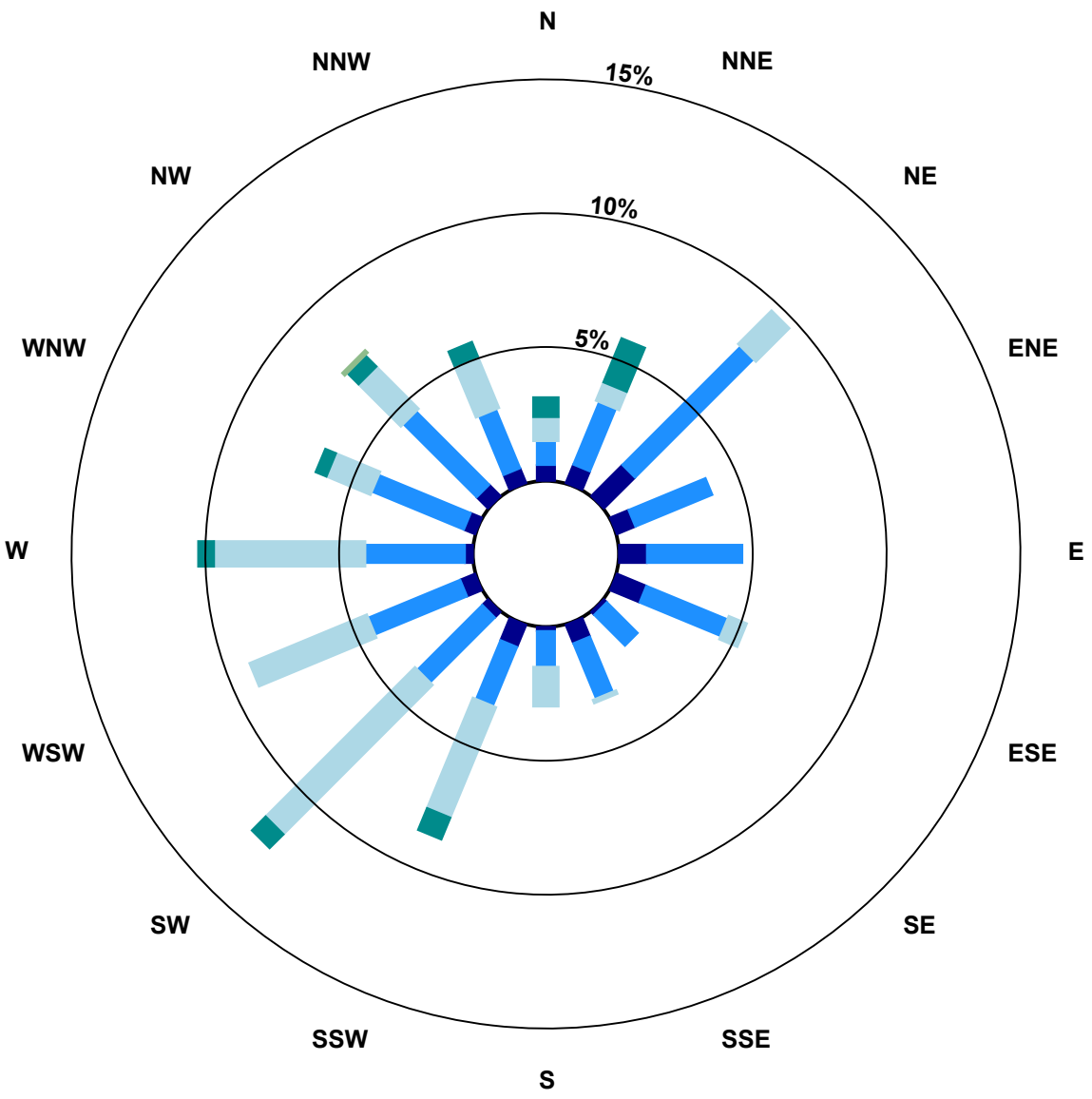
Total Number of Hours: 672

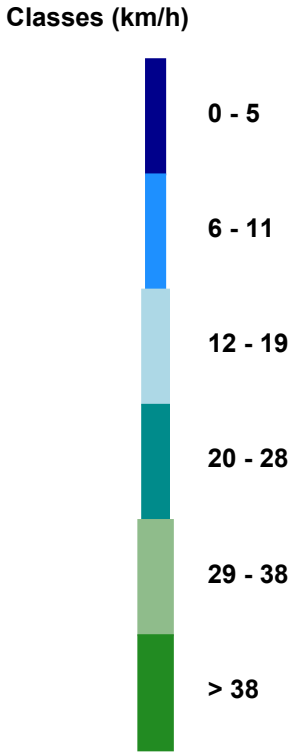
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 20m (WS20) - km/h

Stony Mountain





Total Number of Valid Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 20m (WD20) - deg

Stony Mountain - February 2026

Direction of Maximum Speed: 321 deg on Feb 5 09:00
Direction of Maximum Daily Speed Average: 19.2 deg on Feb 17

Direction of Minimum Speed: 29 deg on Feb 10 05:00

Direction of Minimum Daily Speed Average: 0.7 deg on Feb 7

Monthly Average Direction: 266.7 deg

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	20	73	109	124	115	113	123	115	127	135	144	148	158	156	152	140	138	144	152	158	159	157	176	163	142.0
2-Feb	165	171	168	176	176	179	185	186	191	198	203	212	211	221	237	225	219	225	239	306	280	298	316	307	210.7
3-Feb	303	322	332	325	317	323	337	345	343	303	285	229	234	220	219	187	186	191	177	180	176	177	180	182	225.4
4-Feb	180	192	192	199	206	214	221	233	240	253	268	283	277	281	275	286	275	273	266	262	264	268	266	234	242.1
5-Feb	226	253	250	238	272	287	296	314	321	334	339	317	323	322	327	333	349	20	42	53	80	94	101	79	313.0
6-Feb	97	117	105	115	107	99	111	96	88	92	102	122	99	9	34	46	32	137	166	191	196	215	214	242	130.9
7-Feb	231	215	225	235	263	276	260	274	278	9	23	56	43	44	81	56	40	45	62	59	83	79	81	74	27.2
8-Feb	50	344	6	98	84	310	316	257	208	239	280	297	305	309	309	300	306	319	320	327	323	317	320	317	307.7
9-Feb	314	295	272	243	240	236	224	218	231	227	233	7	40	50	21	30	54	54	73	50	51	76	49	74	352.3
10-Feb	66	37	31	56	29	98	103	97	151	195	188	203	205	200	197	198	200	202	206	211	210	214	216	221	202.0
11-Feb	219	225	225	232	231	225	225	229	224	223	228	232	240	248	249	252	246	235	232	231	238	226	222	228	231.6
12-Feb	232	243	246	251	262	261	265	273	275	273	265	249	232	232	235	221	207	207	205	206	214	215	244	253	240.0
13-Feb	240	250	262	270	268	263	266	266	263	261	265	280	280	282	273	275	255	240	236	237	252	249	246	249	261.5
14-Feb	248	241	250	247	233	250	234	238	238	229	240	280	282	277	283	280	284	283	266	279	273	279	283	290	261.9
15-Feb	264	253	263	284	292	309	293	296	312	316	323	346	13	2	354	342	20	41	44	46	47	60	54	49	341.1
16-Feb	38	46	58	50	44	63	78	85	79	67	88	100	76	76	71	55	45	37	47	50	44	39	50	45	56.8
17-Feb	34	28	31	33	31	31	25	25	26	26	31	22	12	16	18	14	10	11	9	12	14	13	10	8	19.2
18-Feb	7	5	3	359	1	1	340	342	340	338	336	348	340	332	313	321	326	325	332	310	303	294	276	264	339.9
19-Feb	266	267	268	252	249	237	236	237	221	229	258	249	251	231	237	226	222	206	209	218	221	220	218	219	233.3
20-Feb	219	218	219	220	224	221	218	219	208	222	204	199	204	164	165	158	110	83	81	63	51	42	35	34	202.8
21-Feb	33	25	29	22	19	20	21	30	34	45	34	41	38	44	42	48	47	42	51	55	56	72	60	50	40.1
22-Feb	64	83	79	90	90	104	109	101	99	118	125	107	103	110	109	104	109	106	110	115	121	133	134	116	106.3
23-Feb	117	104	116	117	139	209	222	213	264	289	325	294	290	265	287	305	314	294	293	296	295	297	287	282	285.4
24-Feb	279	277	285	284	283	276	277	266	264	264	259	261	258	238	259	261	223	218	197	197	206	204	201	184	250.0
25-Feb	168	149	148	150	192	237	300	310	309	309	284	271	264	259	235	261	239	293	320	347	43	49	51	30	260.6
26-Feb	54	60	88	87	50	78	57	335	330	203	258	256	284	292	314	323	320	313	323	332	335	330	334	338	325.7
27-Feb	336	335	332	334	325	319	322	320	328	351	346	347	337	331	4	353	34	76	45	47	33	41	80	105	349.8
28-Feb	109	155	190	210	216	221	220	219	217	208	198	208	211	209	211	207	210	196	199	206	205	211	218	220	208.7
	252.2	251.6	250.4	251.2	262.6	261.5	261.4	268.7	272.1	272.9	279.6	276.7	283.2	278.9	280.9	291.7	286.8	272.4	238.2	247.4	244.5	249.1	251.0	252.9	
	Diurnal Average																								

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 20m (WD20) - deg

Stony Mountain - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 75 deg on Feb 26 07:00

Minimum Value: 9 deg on Feb 28 04:00

Percentiles: P_1 = 11 P_{10} = 14 Q_1 = 16 Median = 19 Q_3 = 22 P_{90} = 28 P_{99} = 59

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

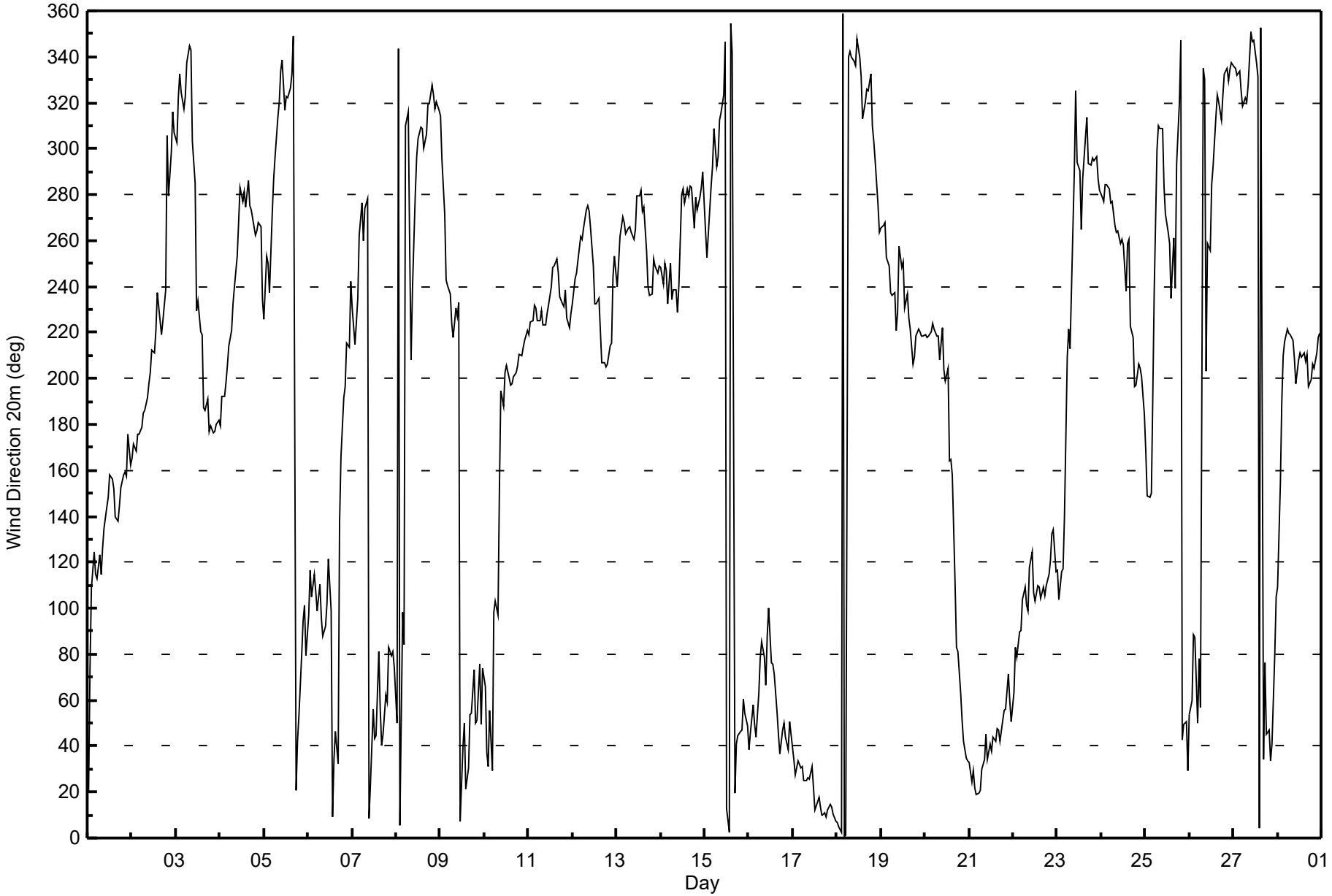
Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	24	24	21	16	16	18	15	18	15	20	24	20	22	22	23	23	20	17	17	18	15	16	20	20	24
2-Feb	16	20	16	18	14	15	16	17	17	20	22	22	20	23	22	21	21	17	31	33	17	17	15	17	33
3-Feb	17	17	16	19	17	20	18	21	28	21	41	31	35	36	33	29	22	22	19	19	18	18	17	17	41
4-Feb	16	19	17	17	18	17	17	20	24	28	21	22	23	23	23	20	18	18	18	19	19	19	22	19	28
5-Feb	18	22	26	20	21	21	21	22	19	21	20	19	19	22	20	19	28	21	19	15	19	17	15	19	28
6-Feb	14	18	15	16	19	19	22	24	18	20	21	21	49	19	23	23	19	20	12	13	15	30	19	65	65
7-Feb	44	15	17	17	21	18	29	20	31	27	25	19	24	20	33	21	21	16	16	18	26	15	16	18	44
8-Feb	17	20	59	31	58	53	50	51	19	21	22	20	19	18	19	19	18	18	18	18	20	16	16	18	59
9-Feb	18	21	19	19	16	25	16	14	24	20	72	28	29	24	28	26	16	16	17	15	20	19	16	23	72
10-Feb	25	30	26	32	33	32	32	43	27	17	18	20	20	18	16	16	15	13	14	14	14	14	14	15	43
11-Feb	14	14	14	14	13	14	13	14	13	15	18	22	24	26	23	24	22	18	18	16	18	16	17	19	26
12-Feb	19	19	21	21	20	21	20	20	18	19	23	24	26	24	25	21	20	19	17	17	17	21	20	22	26
13-Feb	21	23	21	21	21	22	20	21	22	20	22	25	21	23	24	22	24	16	15	15	17	16	16	18	25
14-Feb	17	18	18	17	18	18	20	14	15	16	27	23	23	23	25	23	18	16	17	17	17	18	17	16	27
15-Feb	20	17	19	18	18	17	17	18	15	17	21	31	24	23	18	19	26	17	15	17	16	15	14	15	31
16-Feb	16	15	13	13	14	13	12	12	14	15	24	23	22	22	21	18	16	17	15	15	16	17	15	15	24
17-Feb	19	19	17	18	17	18	17	18	19	18	20	19	19	18	20	19	19	19	20	20	19	20	19	19	20
18-Feb	20	19	17	19	18	20	16	17	16	17	18	21	23	20	22	21	19	13	14	11	13	11	10	14	23
19-Feb	16	16	16	18	16	15	14	15	14	23	29	29	27	27	28	29	21	18	15	18	18	17	16	15	29
20-Feb	15	14	13	13	14	12	11	13	18	30	46	27	74	30	50	23	49	20	17	17	17	20	22	19	74
21-Feb	18	17	17	15	15	17	15	17	17	20	20	24	22	27	25	21	17	17	20	13	15	19	19	15	27
22-Feb	15	16	15	17	15	13	13	14	15	23	21	22	19	18	20	18	17	17	16	15	16	19	18	17	23
23-Feb	18	17	22	23	30	54	16	12	30	22	34	55	26	33	24	24	22	18	17	17	15	15	17	16	55
24-Feb	16	18	18	18	18	19	20	18	20	22	23	25	29	31	25	29	24	21	18	16	14	15	16	15	31
25-Feb	11	12	11	19	15	37	19	15	16	21	23	30	28	28	26	29	23	26	16	14	32	20	23	19	37
26-Feb	15	26	18	32	15	27	75	24	25	67	65	24	23	22	21	18	18	19	17	17	17	17	17	17	75
27-Feb	16	14	14	14	12	11	12	13	13	24	24	34	32	40	40	32	39	21	12	13	14	10	19	10	40
28-Feb	26	16	12	9	10	12	14	13	17	20	21	24	24	24	23	25	24	20	21	19	17	18	17	15	26
	44	30	59	32	58	54	75	51	31	67	72	55	74	40	50	32	49	26	31	33	32	30	23	65	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 20m (WD20) - deg

Stony Mountain - February 2026



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS19
FIREBAG
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FIREBAG (AMS19)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	638	33	34	99.85	25	0	4.1	0
H2S (ppb) Average	635	34	37	99.55	1.3	0	0.5	0
THC (ppm) Average	638	33	34	99.85	2.8	-	2.4	-
NO2 (ppb) Average	556	32	116	87.5	46.8	0	17.2	-
NO (ppb) Average	556	32	116	87.5	56.8	-	9.5	-
NOX (ppb) Average	556	32	116	87.5	103.6	-	26.7	-
Temperature 2 m (C) Average	672	0	0	100	7.2	-	-0.1	-
Relative Humidity (%) Average	672	0	0	100	96.2	-	90.4	-
Wind Speed 10 m (km/h) Average	633	0	39	94.2	34	-	23	-
Wind Direction 10 m (deg) Average	633	0	39	94.2	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FIREBAG (AMS19)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	638	0.74	1.8	-	0	0	0	0.1	0.5	2.2	25
H2S (ppb) Average	635	0.16	0.2	-	0	0	0	0.1	0.2	0.4	1.3
THC (ppm) Average	638	2.22	0.1	-	2	2.1	2.2	2.2	2.2	2.3	2.8
NO2 (ppb) Average	556	6.35	7.5	-	0.1	0.3	0.8	3.9	8.5	16.1	46.8
NO (ppb) Average	556	3.08	6	-	0	0	0	0.9	3	8	56.8
NOX (ppb) Average	556	9.43	12.8	-	0.2	0.3	0.9	5	11.5	23.1	103.6
Temperature 2 m (C) Average	672	-15.77	9.8	-	-36.8	-29.8	-23.2	-15.7	-8.2	-1.9	7.2
Relative Humidity (%) Average	672	76.55	10.2	-	42.4	63.1	69.6	76.7	84.6	88.4	96.2
Wind Speed 10 m (km/h) Average	633	12.6	7	-	1	4	8	12	17	21	34
Wind Direction 10 m (deg) Average	633	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FIREBAG (AMS19)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
H2S	11 Feb 2026 13:00	11 Feb 2026 15:00	3	Maintenance - WBEA internal audit
SO2	11 Feb 2026 15:00	11 Feb 2026 15:00	1	Maintenance - WBEA internal audit
THC	11 Feb 2026 16:00	11 Feb 2026 16:00	1	Maintenance - WBEA internal audit
NO2	11 Feb 2026 13:00	11 Feb 2026 15:00	3	Maintenance - WBEA internal audit
NO2	17 Feb 2026 05:00	20 Feb 2026 12:00	80	Unstable Operation - span outside AMD criteria
NO2	20 Feb 2026 13:00	20 Feb 2026 13:00	1	Maintenance - reinitiated daily QA check
Wind Speed, Wind Direction	09 Feb 2026 02:00	10 Feb 2026 12:00	35	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	10 Feb 2026 13:00	10 Feb 2026 14:00	2	Maintenance - to defreeze sensor
Wind Speed, Wind Direction	25 Feb 2026 13:00	25 Feb 2026 14:00	2	Maintenance - replaced sensor

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Firebag - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 25.0 ppb on Feb 24 16:00

Maximum Daily Average: 4.1 ppb on Feb 24

Minimum Value: 0.0 ppb on Feb 1 01:00

Minimum Daily Average: 0.0 ppb on Feb 27

Maximum Diurnal Average: 1.8 ppb at hour 16

Minimum Diurnal Average: 0.2 ppb at hour 1

Monthly Average: 0.74 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.5 P_{90} = 2.2 P_{99} = 7.7

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.1	0.3	0.7	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
2-Feb	0.1	0.1	Z	0.1	0.1	0.2	0.2	0.1	0.2	0.3	0.2	0.3	0.3	0.3	0.2	2.3	8.2	5.9	3.0	1.2	0.8	0.8	0.3	0.1	1.1	8.2
3-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	3.2	5.5	1.8	0.8	0.3	0.3	0.3	0.2	0.4	0.4	0.3	0.6	5.5
4-Feb	0.2	0.2	0.2	0.3	Z	0.4	2.8	4.5	1.7	0.9	2.5	2.4	1.5	0.5	0.4	0.5	0.5	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.9	4.5
5-Feb	0.0	0.0	0.1	0.1	0.1	Z	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.1	0.9
6-Feb	Z	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2
7-Feb	0.1	Z	0.1	0.2	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.5	5.8	2.0	1.9	0.6	0.2	0.1	0.6	5.8
8-Feb	0.1	0.1	Z	0.4	0.3	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
9-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.1	3.2
10-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.3	0.2	0.1	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3
11-Feb	0.5	0.5	1.1	1.4	1.5	Z	3.0	2.2	1.5	0.7	1.0	2.3	2.4	2.6	M	7.0	2.9	0.4	0.2	0.3	0.3	0.3	1.5	3.5	1.7	7.0
12-Feb	Z	1.9	1.7	1.6	1.1	0.9	1.1	1.1	2.8	3.9	4.3	C	C	C	C	C	0.1	0.0	0.0	0.0	0.1	1.1	2.1	2.2	1.4	4.3
13-Feb	2.1	Z	1.7	1.6	1.1	0.6	0.3	0.1	0.2	0.3	0.7	0.4	0.4	1.1	2.1	2.2	3.1	5.2	1.8	0.4	0.4	0.4	0.8	0.9	1.2	5.2
14-Feb	0.8	2.6	Z	1.7	2.0	3.5	2.9	3.8	2.9	2.9	7.3	5.2	3.6	3.9	7.8	4.3	3.4	2.5	1.2	0.9	0.7	1.3	1.5	0.2	2.9	7.8
15-Feb	0.1	0.1	0.0	Z	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1
16-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
17-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1
19-Feb	0.1	Z	0.3	0.3	0.6	1.2	2.3	2.6	1.6	1.0	0.3	0.2	0.5	0.9	0.1	0.5	0.6	0.1	0.1	0.1	0.1	0.1	0.0	0.4	0.6	2.6
20-Feb	0.4	0.6	Z	0.6	0.3	0.2	0.1	0.1	0.2	0.1	0.1	1.2	3.4	7.1	1.6	1.2	0.9	0.3	0.2	0.4	0.6	0.7	0.6	0.5	0.9	7.1
21-Feb	0.5	0.7	0.9	Z	0.5	0.3	0.8	0.6	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9
22-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.2	2.6	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	0.0	0.1	2.6
23-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.1	0.0	2.1	7.5	4.5	4.2	3.0	1.5	1.0	0.8	0.7	0.5	0.4	0.4	0.5	0.4	0.4	1.2	7.5
24-Feb	Z	0.8	1.0	0.9	0.8	0.9	0.7	0.7	0.9	3.8	6.9	7.5	2.3	1.9	4.6	25.0	19.2	9.5	4.4	0.7	0.5	0.4	0.5	0.4	4.1	25.0
25-Feb	0.4	Z	0.4	0.3	0.3	0.4	0.5	0.6	0.5	0.7	0.5	0.7	8.2	9.6	0.8	0.3	2.8	3.0	3.9	3.1	2.3	1.6	1.1	0.7	1.8	9.6
26-Feb	0.4	0.3	Z	0.4	0.3	1.1	0.5	0.5	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1
27-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28-Feb	0.0	0.0	0.0	0.1	Z	0.2	0.2	0.3	1.0	0.8	0.5	0.3	0.1	0.1	0.1	0.3	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.5	0.3	1.0
	0.2	0.4	0.3	0.4	0.4	0.5	0.6	0.7	0.5	0.7	1.2	1.0	1.0	1.3	1.0	1.8	1.6	1.1	0.8	0.4	0.3	0.4	0.5	0.4	Diurnal Average	
	2.1	2.6	1.7	1.7	2.0	3.5	3.0	4.5	2.9	3.9	7.5	7.5	8.2	9.6	7.8	25.0	19.2	9.5	5.8	3.1	2.3	1.6	3.2	3.5	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

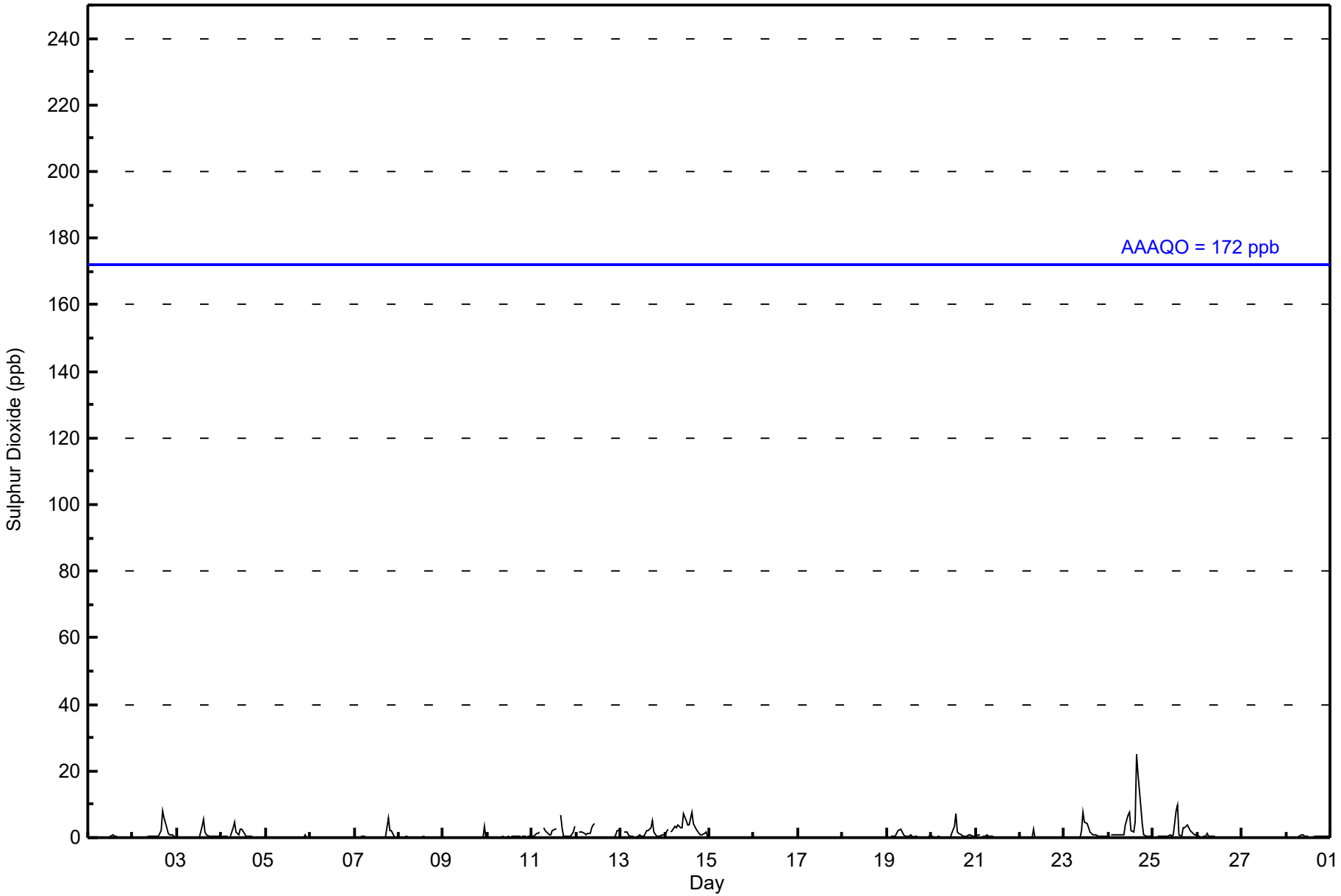
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Firebag - February 2026



Sulphur Dioxide (SO_2) - ppb

Firebag - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	636	99.69	99.69
11 - 20	1	0.16	99.84
21 - 60	1	0.16	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Firebag - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	85	96	43	14	7	6	16	42	59	49	86	40	12	8	19	17	599
11 - 20	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
21 - 60	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	85	96	43	14	7	6	16	42	59	49	87	41	12	8	19	17	601

Total Number of Valid Hours: 601

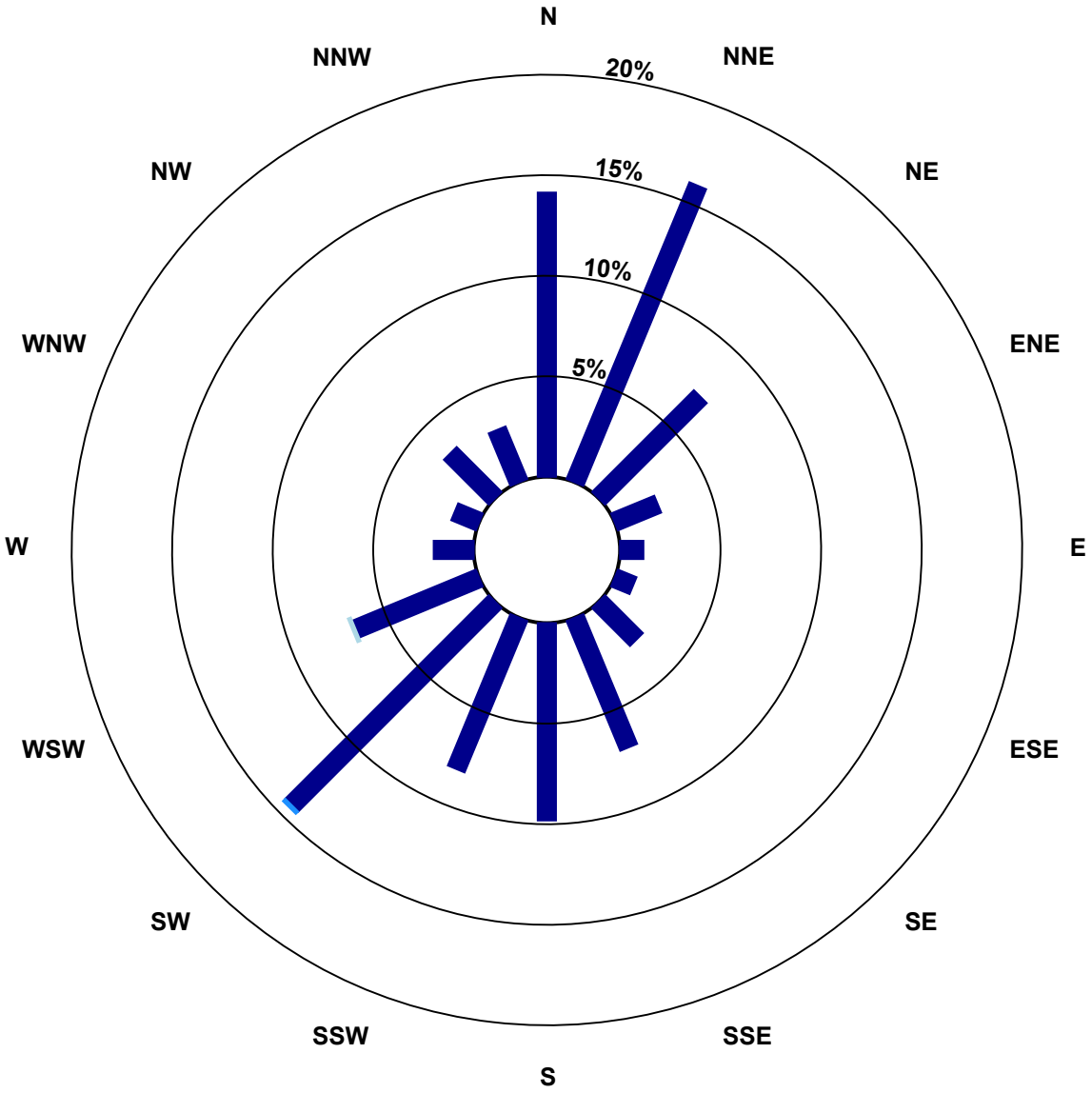
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Firebag



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

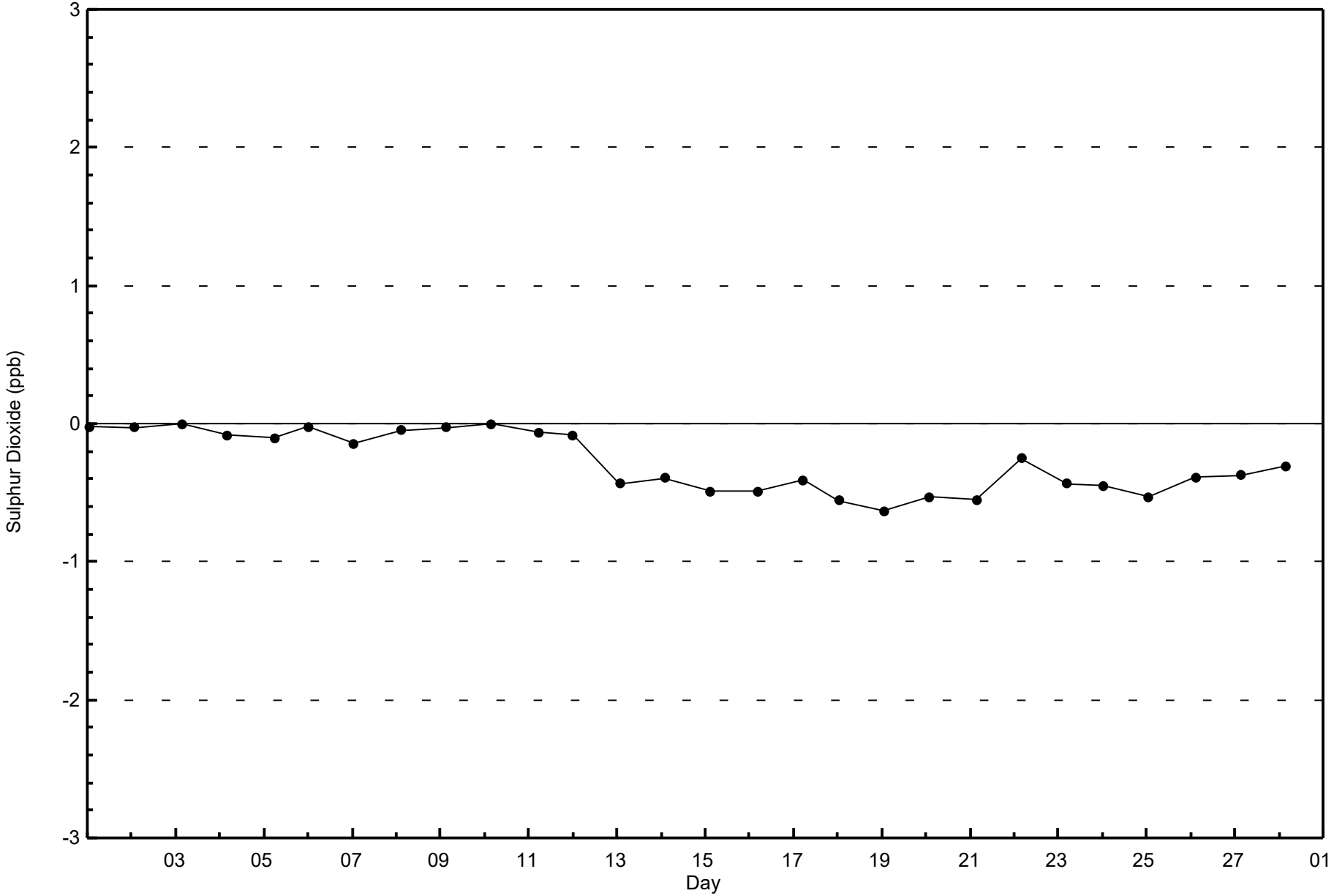
Total Number of Valid Hours: 601

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Firebag - February 2026

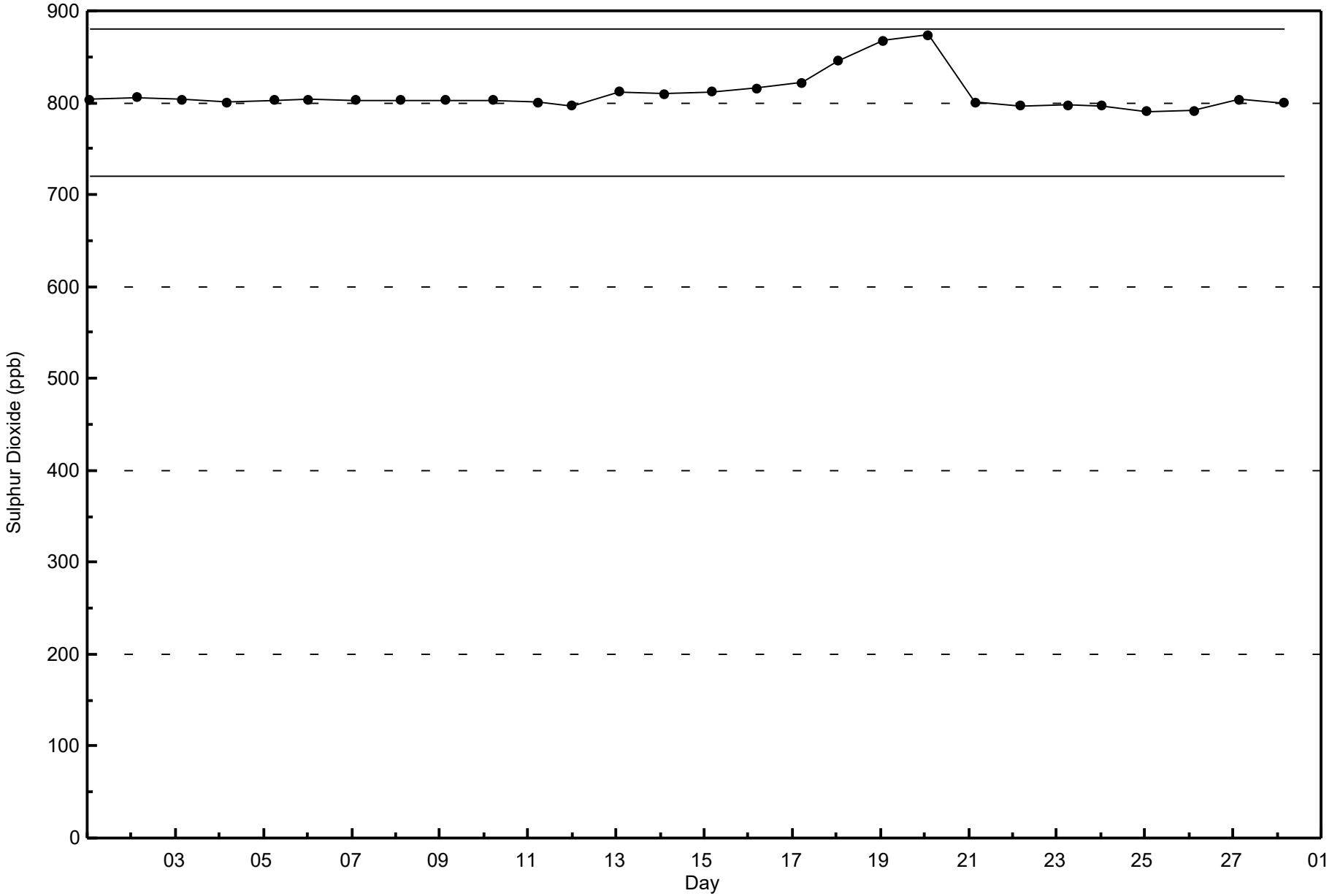


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Firebag - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Firebag - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 1.3 ppb on Feb 14 19:00

Maximum Daily Average: 0.5 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 15 12:00

Minimum Daily Average: 0.0 ppb on Feb 27

Maximum Diurnal Average: 0.2 ppb at hour 5

Minimum Diurnal Average: 0.1 ppb at hour 13

Monthly Average: 0.16 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.2 P_{90} = 0.4 P_{99} = 0.8

Hours in Service:	672
Hours of Data:	635
Hours of Missing Data:	37
Hours of Calibration:	34
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	Z	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.3
2-Feb	0.3	0.3	0.2	Z	0.3	0.5	0.5	0.4	0.5	0.4	0.5	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.5	1.0	0.2	0.2	0.3	1.0
3-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.5	0.9	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.9
4-Feb	0.2	0.3	0.3	0.1	0.1	Z	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
5-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.3
6-Feb	0.1	Z	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.3
7-Feb	0.1	0.3	Z	0.3	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.4
8-Feb	0.1	0.1	0.1	Z	0.3	0.2	0.4	0.2	0.1	0.1	0.4	0.3	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	0.4
9-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.3	0.1	0.1	0.3
10-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	C	C	C	C	C	C	0.3	0.4	0.5	0.6	0.2	0.2	0.2	--	0.6
11-Feb	Z	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	M	M	M	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
12-Feb	0.1	Z	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.4	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.5
13-Feb	0.1	0.2	Z	0.2	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.3
14-Feb	0.3	0.4	0.4	Z	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.5	0.6	0.5	0.6	1.3	0.9	0.9	0.7	0.5	0.8	0.5	1.3
15-Feb	0.5	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5
16-Feb	0.0	0.0	0.0	0.1	0.2	Z	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.4
17-Feb	Z	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.1	0.3
19-Feb	0.3	0.5	Z	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.5
20-Feb	0.0	0.1	0.1	Z	0.2	0.2	0.3	0.2	0.1	0.1	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
21-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
22-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.3	0.7	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	0.0	0.1	0.7
23-Feb	Z	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.3	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.4	0.8	1.0	0.5	0.4	0.3	1.0
24-Feb	0.3	Z	0.4	0.4	0.4	0.3	0.8	0.8	0.5	0.6	0.7	0.2	0.2	0.1	0.2	0.3	0.3	0.2	0.7	0.6	0.3	0.2	0.2	0.1	0.4	0.8
25-Feb	0.1	0.1	Z	0.1	0.2	0.1	0.2	0.4	0.3	0.4	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.4	0.6	0.4	0.4	0.3	0.2	0.1	0.2	0.6
26-Feb	0.1	0.1	0.1	Z	1.2	0.7	0.4	0.4	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2
27-Feb	0.0	0.0	0.0	0.0	Z	0.0	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	0.0	0.0	0.0	0.1	0.1	0.0	0.1
28-Feb	0.2	0.4	0.5	0.3	0.5	Z	0.6	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.6
	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	Diurnal Average	
	0.5	0.5	0.5	0.4	1.2	0.7	0.8	0.8	0.5	0.6	0.7	0.3	0.3	0.5	0.9	0.6	0.5	0.6	1.3	0.9	0.9	1.0	0.5	0.8	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

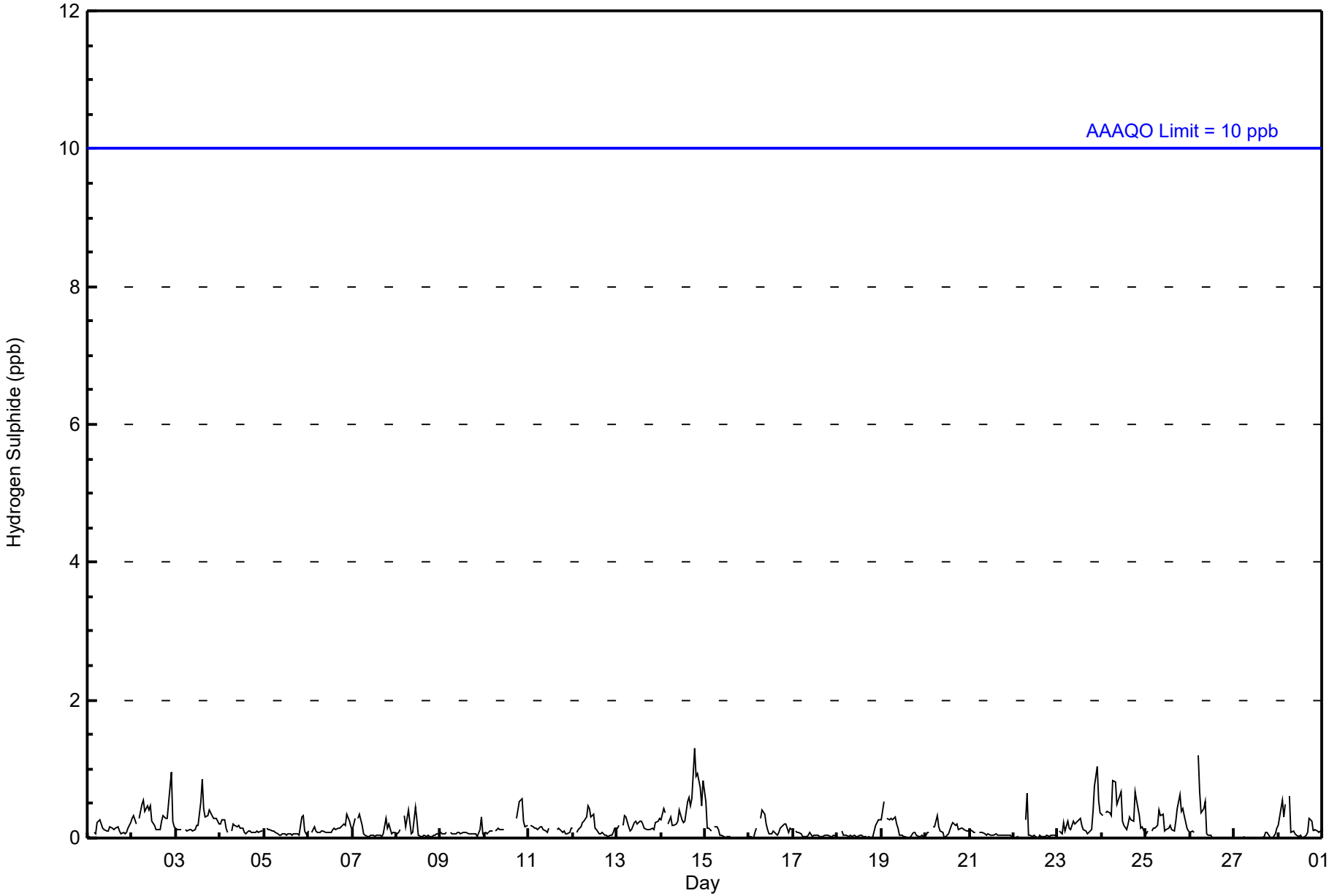
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Firebag - February 2026



Hydrogen Sulphide (H_2S) - ppb

Firebag - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	635	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 635

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Firebag - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	83	98	44	13	7	6	15	43	56	51	90	39	12	8	19	17	601
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	83	98	44	13	7	6	15	43	56	51	90	39	12	8	19	17	601

Total Number of Valid Hours: 601

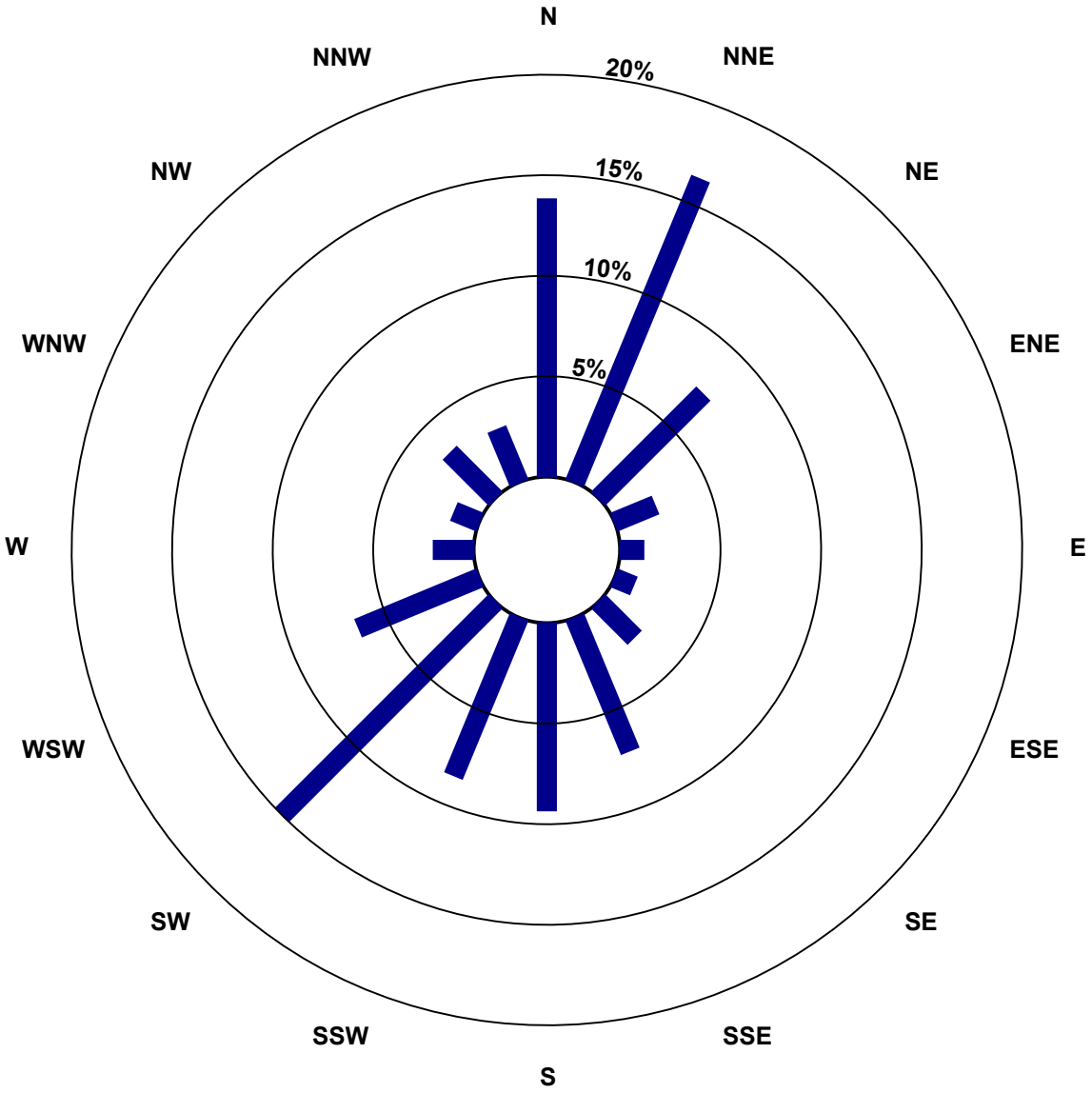
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Firebag



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

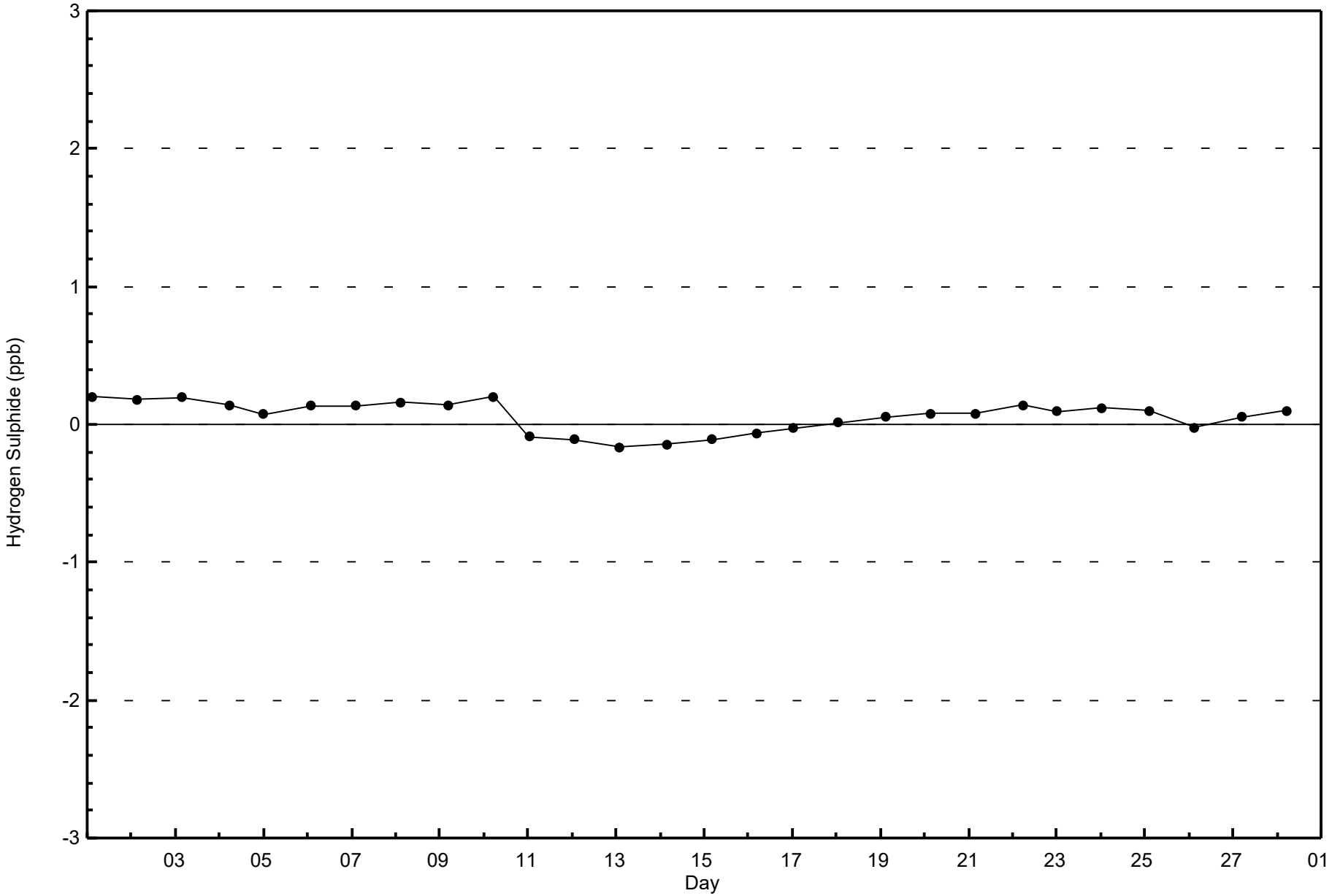
Total Number of Valid Hours: 601

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Firebag - February 2026

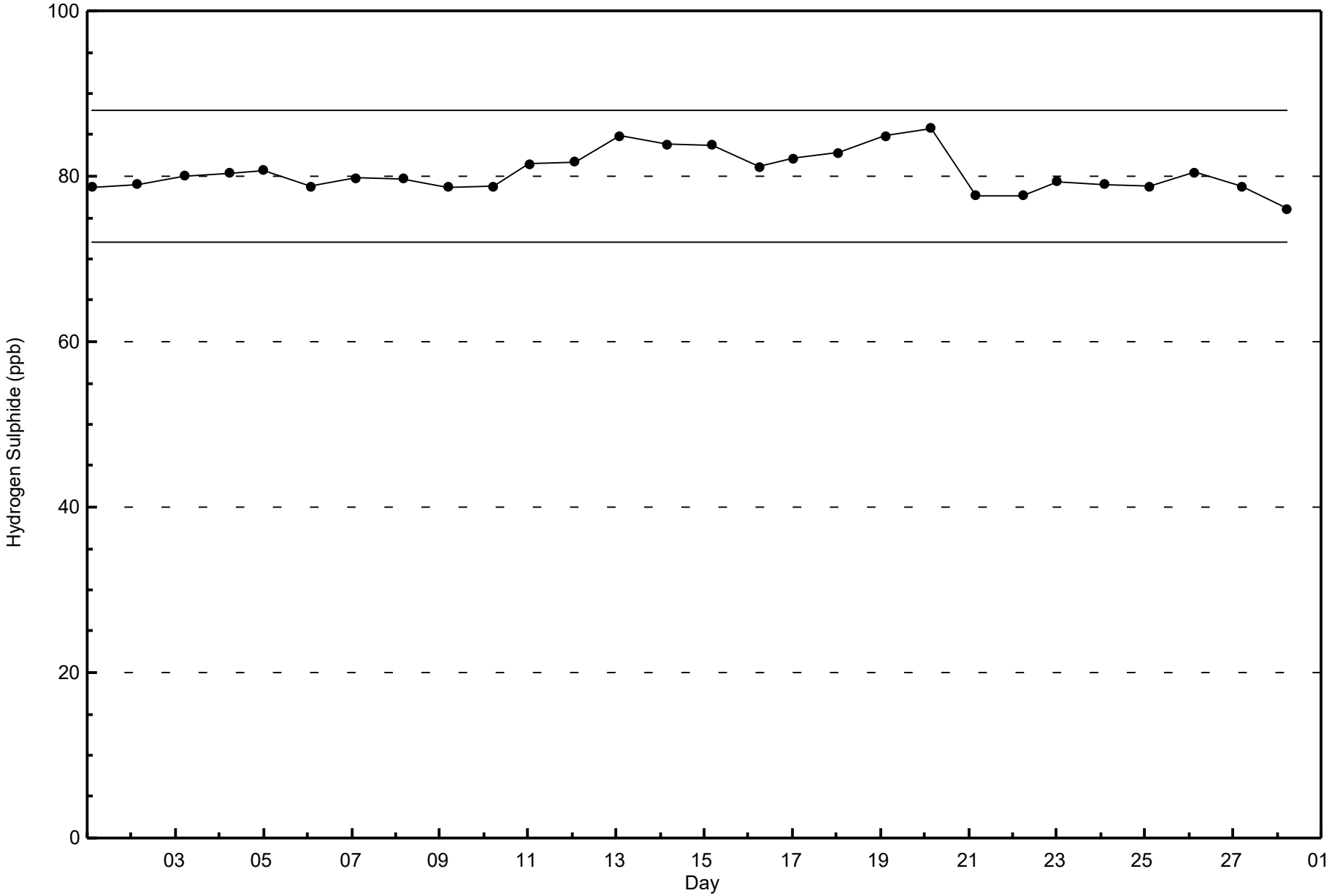


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Firebag - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Firebag - February 2026

Maximum Value: 2.8 ppm on Feb 14 19:00

Maximum Daily Average: 2.4 ppm on Feb 24

Minimum Value: 2.0 ppm on Feb 12 19:00

Minimum Daily Average: 2.1 ppm on Feb 26

Maximum Diurnal Average: 2.2 ppm at hour 19

Minimum Diurnal Average: 2.2 ppm at hour 12

Monthly Average: 2.22 ppm

Percentiles: P_1 = 2.1 P_{10} = 2.1 Q_1 = 2.2 Median = 2.2 Q_3 = 2.2 P_{90} = 2.3 P_{99} = 2.6

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.1	2.2	2.2	2.2	2.2
2-Feb	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.6	2.7	2.4	2.3	2.3	2.7
3-Feb	2.3	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
4-Feb	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
5-Feb	2.2	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.3	2.2	2.3	2.2	2.2	2.2	2.3	2.2	2.3	2.2	2.2	2.2	2.3
6-Feb	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
7-Feb	2.2	Z	2.3	2.4	2.5	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.3	2.2	2.5
8-Feb	2.2	2.3	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.3	2.2	2.2	2.3
9-Feb	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3
10-Feb	2.2	2.2	2.2	2.2	Z	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.3
11-Feb	2.2	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.3	M	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
12-Feb	Z	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.3	2.3	C	C	C	C	C	2.1	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.2	2.4
13-Feb	2.1	Z	2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.3
14-Feb	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.8	2.7	2.6	2.6	2.5	2.5	2.3	2.8
15-Feb	2.4	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4
16-Feb	2.2	2.2	2.2	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
17-Feb	2.2	2.2	2.2	2.2	2.2	Z	2.1	2.1	2.2	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.2	2.1	2.2	2.2	2.2
18-Feb	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.2	2.1	2.2	2.2	2.3	2.2	2.4
19-Feb	2.3	Z	2.3	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
20-Feb	2.2	2.2	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.4	2.4	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.4
21-Feb	2.3	2.3	2.2	Z	2.2	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
22-Feb	2.2	2.2	2.2	2.2	Z	2.2	2.3	2.4	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4
23-Feb	2.2	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.3	2.2	2.3	2.2	2.2	2.2	2.3	2.2	2.2	2.4	2.5	2.6	2.6	2.6	2.5	2.3	2.6
24-Feb	Z	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.3	2.3	2.3	2.2	2.2	2.3	2.4	2.7
25-Feb	2.3	Z	2.2	2.3	2.2	2.3	2.3	2.2	2.2	2.2	2.0	2.1	2.1	2.0	2.1	2.0	2.1	2.2	2.3	2.3	2.4	2.3	2.1	2.1	2.2	2.4
26-Feb	2.1	2.1	Z	2.1	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
27-Feb	2.1	2.1	2.1	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.3	2.2	2.2	2.2	2.3	2.2	2.2	2.3
28-Feb	2.3	2.3	2.4	2.3	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4
	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	Diurnal Average	
	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.6	2.5	2.4	2.3	2.4	2.4	2.4	2.3	2.4	2.4	2.8	2.7	2.6	2.7	2.6	2.5	Diurnal Maximum	

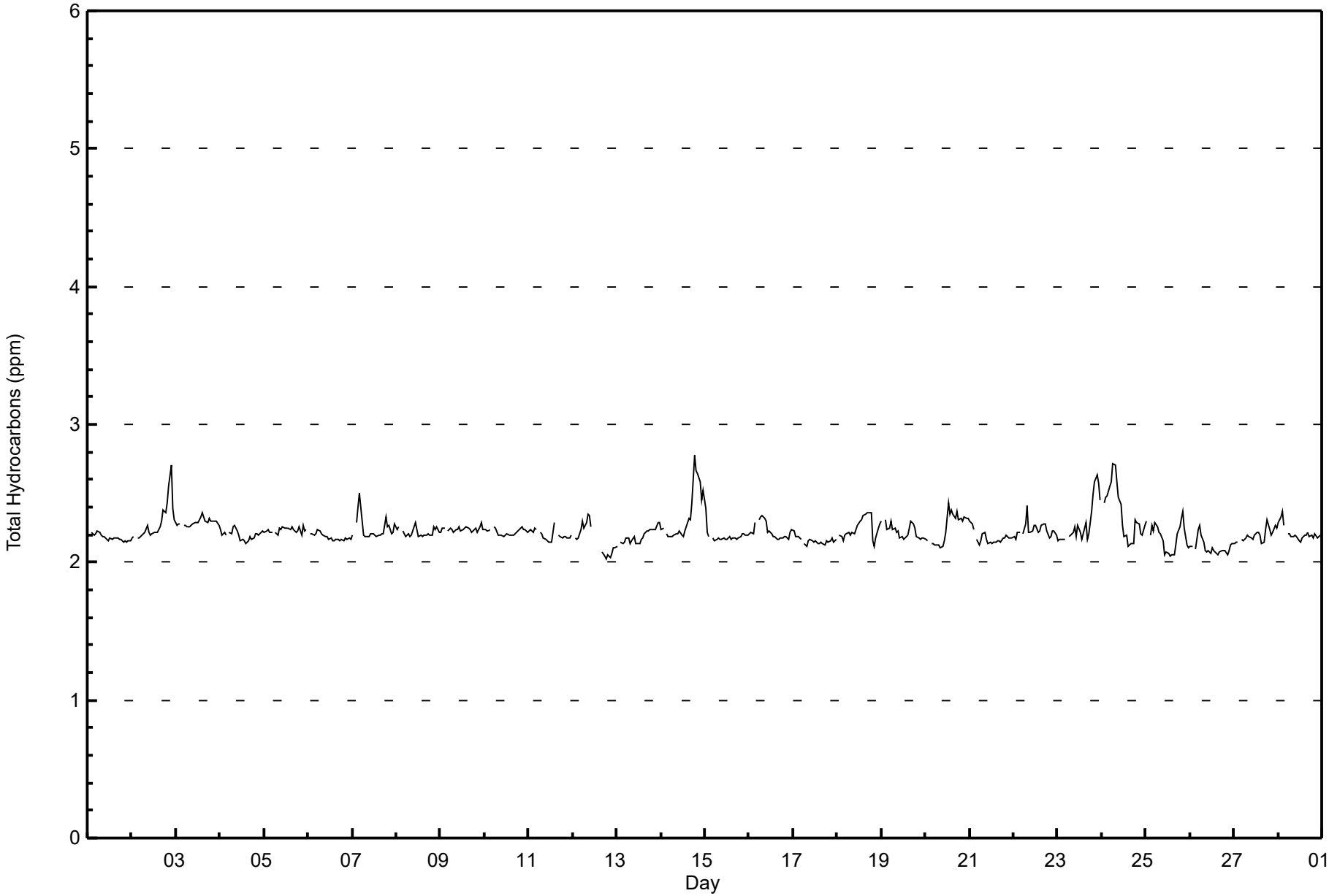
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Firebag - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	6	0.94	0.94
2.1 - 3.0	632	99.06	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Firebag - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	5
2.1 - 3.0	85	96	43	14	7	6	16	42	59	47	85	40	12	8	19	17	596
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	85	96	43	14	7	6	16	42	59	49	87	41	12	8	19	17	601

Total Number of Valid Hours: 601

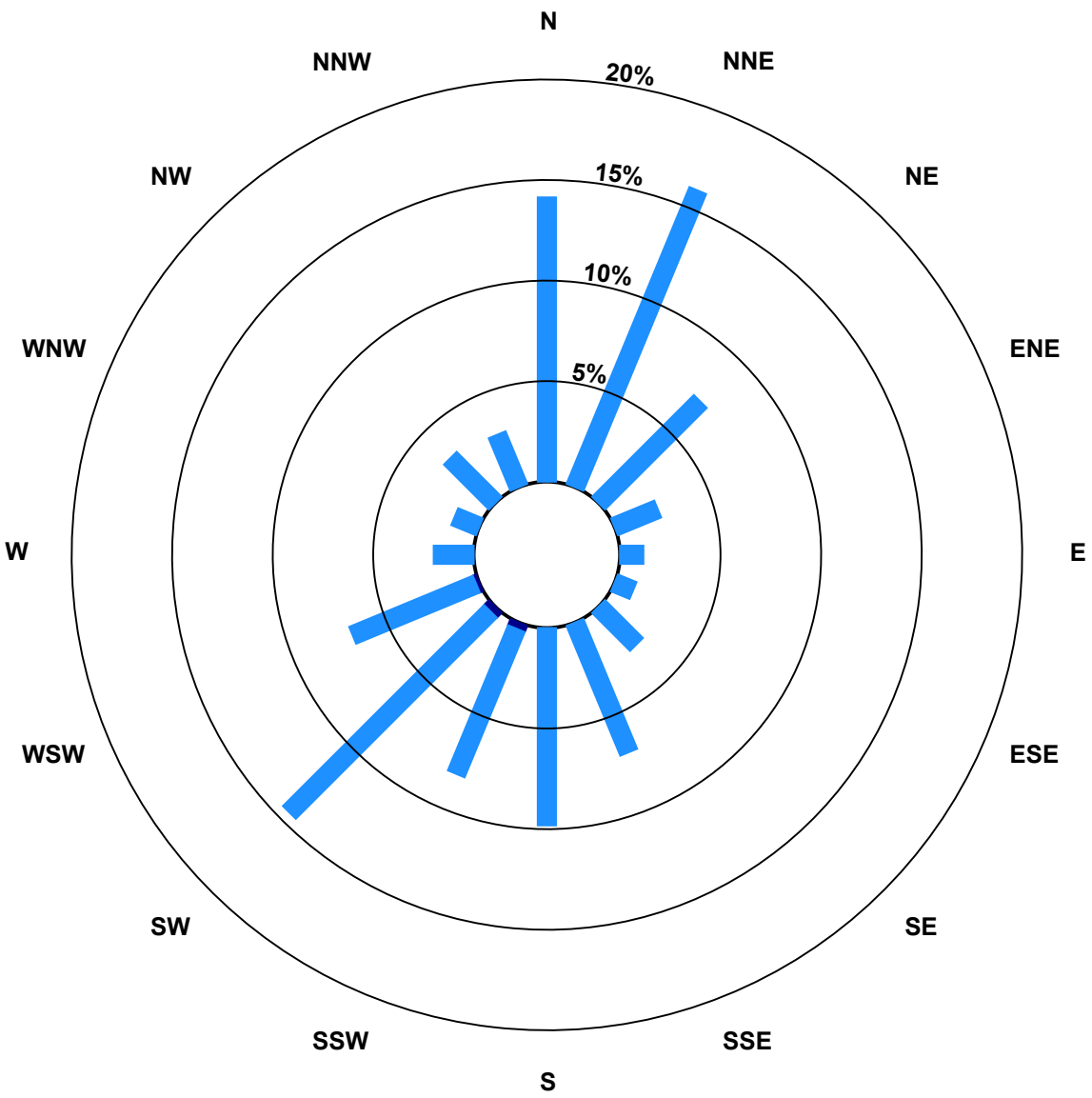
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Firebag



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

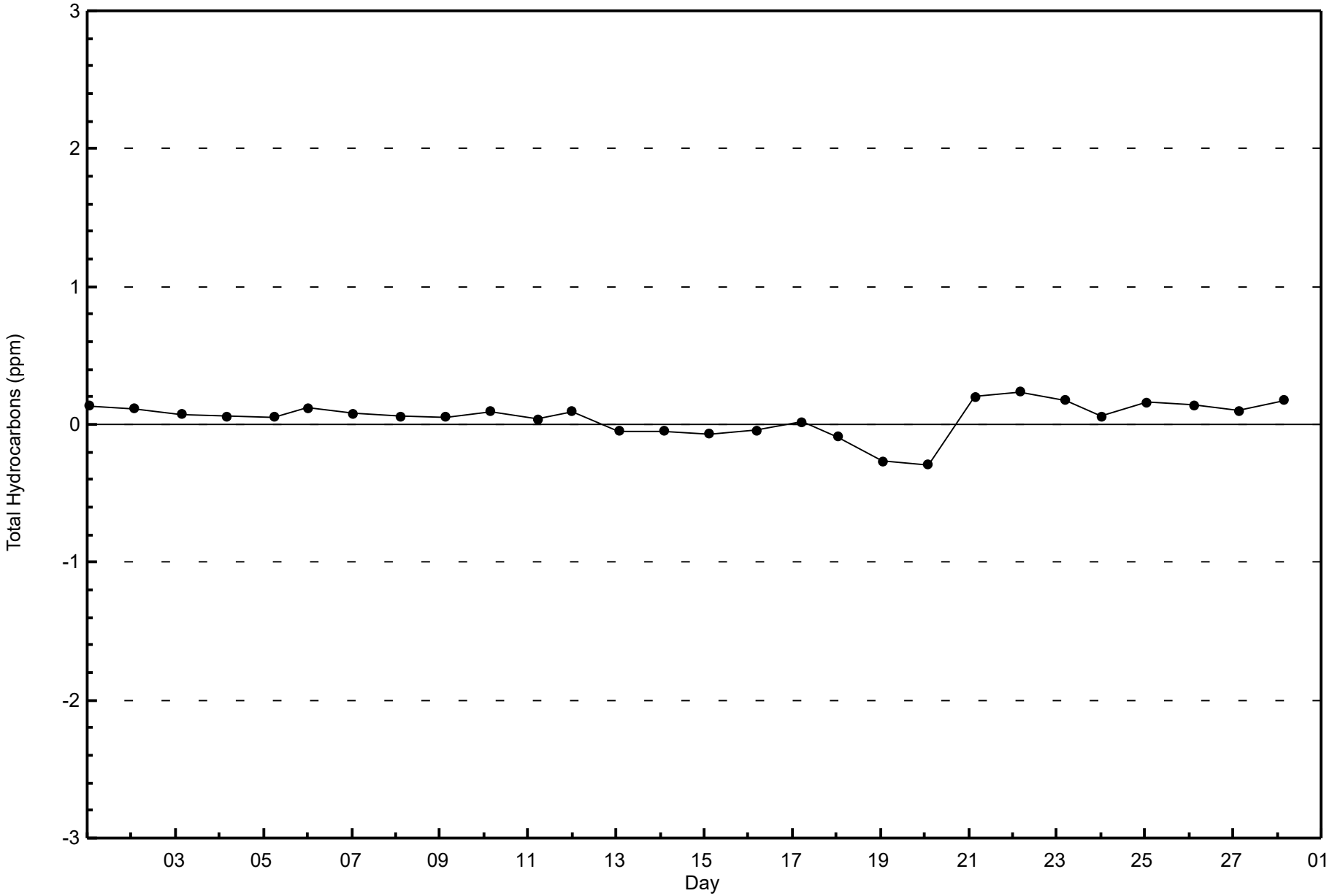
Total Number of Valid Hours: 601

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Firebag - February 2026

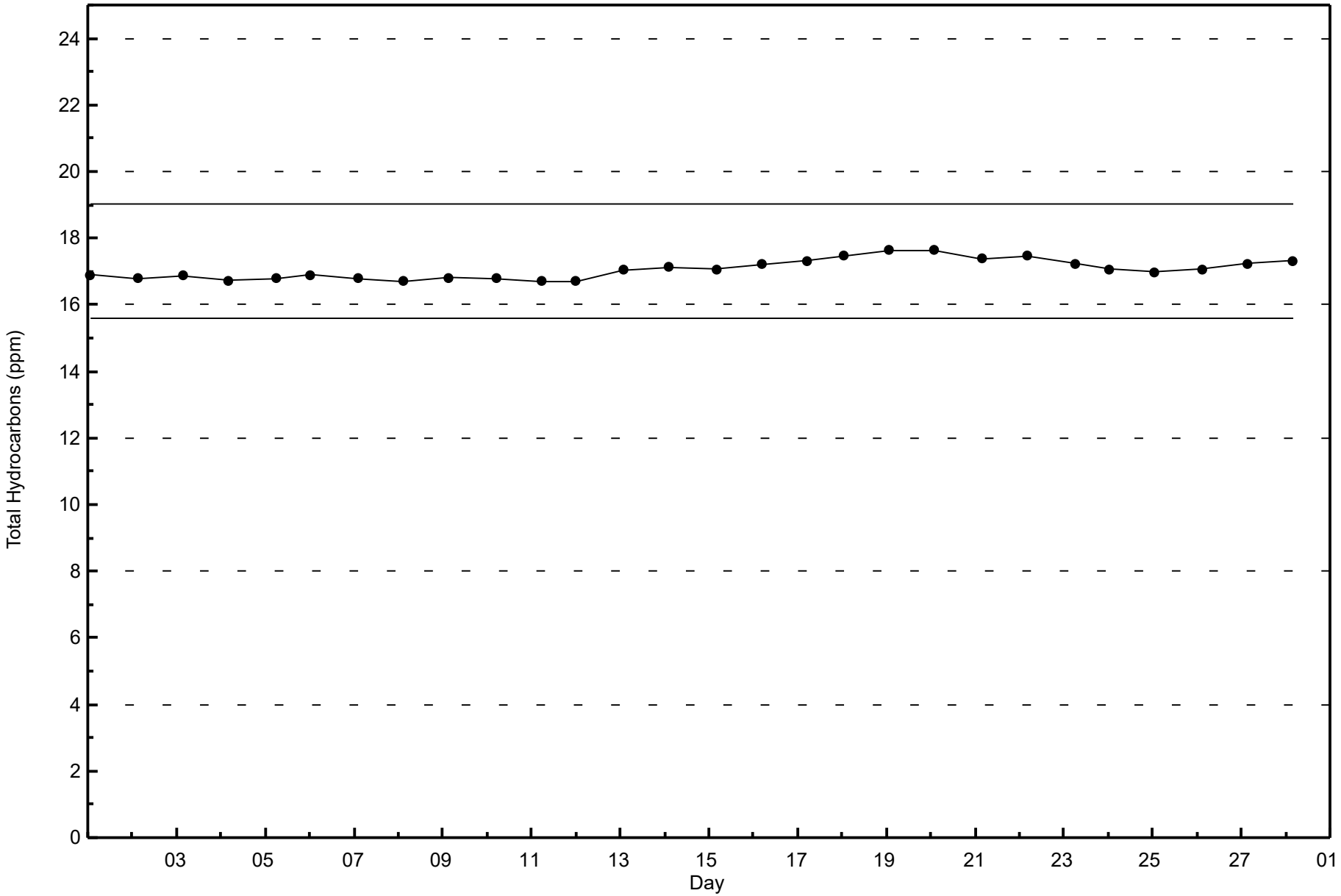


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Firebag - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Firebag - February 2026

Maximum Value: 56.8 ppb on Feb 23 22:00

Maximum Daily Average: 9.5 ppb on Feb 24

Minimum Value: 0.0 ppb on Feb 3 03:00

Minimum Daily Average: 0.0 ppb on Feb 15

Maximum Diurnal Average: 6.4 ppb at hour 7

Minimum Diurnal Average: 1.2 ppb at hour 3

Monthly Average: 3.08 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.9 Q_3 = 3.0 P_{90} = 8.0 P_{99} = 28.9

Hours in Service:	672
Hours of Data:	556
Hours of Missing Data:	116
Hours of Calibration:	32
Percent Operational Time:	87.5

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	1.7	1.4	Z	12.0	7.4	4.9	3.5	2.7	3.6	7.9	3.9	2.7	1.9	4.6	2.2	1.2	1.5	1.3	1.2	5.4	10.4	3.5	12.0
2-Feb	Z	15.8	8.3	4.6	13.3	26.5	28.0	14.7	19.5	19.9	23.5	7.1	4.5	2.2	1.9	0.9	0.5	0.1	0.1	0.1	4.7	13.0	0.1	0.0	9.1	28.0
3-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.1	5.0	3.0	5.3	3.8	1.5	2.5	11.7	19.0	17.4	12.4	12.8	11.2	7.4	4.9	19.0
4-Feb	7.9	14.8	Z	2.6	0.6	0.1	0.0	0.0	0.2	0.7	0.9	0.9	0.8	0.9	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	14.8
5-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	2.1	0.3	0.1	2.1
6-Feb	0.9	0.3	0.7	5.5	Z	0.6	0.5	0.5	0.8	1.1	1.1	0.7	1.7	3.7	3.9	1.7	3.3	3.0	3.7	7.4	5.7	16.5	6.6	2.5	3.2	16.5
7-Feb	1.2	0.0	0.1	0.1	0.1	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.3	0.7	0.5	0.5	0.2	1.2
8-Feb	Z	0.6	3.2	2.9	15.7	6.3	21.8	9.3	0.4	1.0	5.0	2.3	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	21.8
9-Feb	0.0	Z	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.7	0.6	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.4	0.6	0.2	0.7
10-Feb	0.5	0.4	Z	0.6	0.5	0.5	3.5	4.6	2.9	4.9	5.0	10.4	5.9	4.2	6.8	7.6	3.5	10.0	20.0	25.9	27.4	6.2	0.5	2.0	6.7	27.4
11-Feb	2.5	2.2	0.7	Z	0.1	0.1	0.1	1.1	0.6	0.7	0.9	2.6	M	M	M	2.0	2.3	2.6	1.6	1.5	1.6	0.2	0.3	0.8	1.2	2.6
12-Feb	1.5	1.5	1.9	0.6	Z	1.3	1.1	1.1	2.0	2.3	3.1	3.8	2.9	2.2	1.5	1.3	1.0	0.2	0.2	0.3	0.9	0.2	0.0	0.0	1.4	3.8
13-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.2	1.4	0.8	0.6	0.7	1.2	0.7	0.5	0.4	0.3	1.1	0.7	0.7	3.6	5.0	2.0	0.9	5.0
14-Feb	Z	2.0	2.1	1.5	0.5	1.9	0.6	0.3	2.2	2.1	4.5	3.5	2.9	3.1	4.0	2.4	1.1	1.6	5.1	0.7	13.7	7.1	0.1	1.2	2.8	13.7
15-Feb	0.1	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
16-Feb	0.0	0.0	Z	2.3	2.5	3.0	0.9	10.9	11.6	6.8	3.2	2.1	0.9	2.6	1.8	0.7	3.8	5.3	7.7	8.0	7.8	1.4	5.1	4.4	4.0	11.6
17-Feb	6.4	1.3	2.6	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	6.4
18-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
19-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
20-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	4.3	4.9	5.1	2.1	2.1	0.0	0.4	1.5	2.1	1.2	1.9	--	5.1
21-Feb	2.5	Z	1.5	1.0	0.4	0.2	1.2	1.2	1.3	1.3	1.0	1.2	1.2	1.3	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.5
22-Feb	0.0	0.0	Z	0.0	0.0	0.0	1.0	1.8	2.3	2.1	1.7	1.4	0.9	0.9	0.9	1.0	1.0	0.7	0.7	0.8	0.8	0.9	0.7	1.0	0.9	2.3
23-Feb	2.4	2.1	1.8	Z	5.2	11.6	4.8	3.9	13.3	8.1	4.9	5.0	5.7	4.1	2.1	2.3	1.2	0.5	0.0	15.5	37.3	56.8	17.3	9.7	9.4	56.8
24-Feb	4.1	2.8	0.5	1.2	Z	1.0	38.5	32.2	8.0	8.0	12.3	5.5	4.0	3.3	3.7	6.3	3.9	3.2	29.9	28.1	11.6	4.1	4.9	1.5	9.5	38.5
25-Feb	1.1	1.7	1.0	0.7	1.4	Z	1.5	16.3	12.3	16.8	1.0	C	C	C	C	C	C	C	0.2	0.0	0.0	0.0	0.0	0.0	--	16.8
26-Feb	Z	0.0	0.1	0.1	0.3	0.3	0.4	0.4	1.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.2
27-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.8	0.7	1.5	1.3	0.1	0.0	0.0	0.2	3.3	6.3	0.6	6.3
28-Feb	8.0	17.5	Z	7.2	28.1	5.6	36.3	2.6	3.7	2.9	2.6	2.2	2.5	1.9	1.9	2.4	2.8	11.5	9.6	2.1	2.1	2.1	2.2	2.0	6.9	36.3
	1.9	3.2	1.2	1.6	3.3	2.9	6.4	4.5	3.7	3.5	3.1	2.5	2.1	2.0	1.9	1.6	1.5	2.4	4.0	4.4	5.2	5.2	2.7	2.2	Diurnal Average	
	8.0	17.5	8.3	7.2	28.1	26.5	38.5	32.2	19.5	19.9	23.5	10.4	7.9	5.3	6.8	7.6	4.6	11.7	29.9	28.1	37.3	56.8	17.3	10.4	Diurnal Maximum	

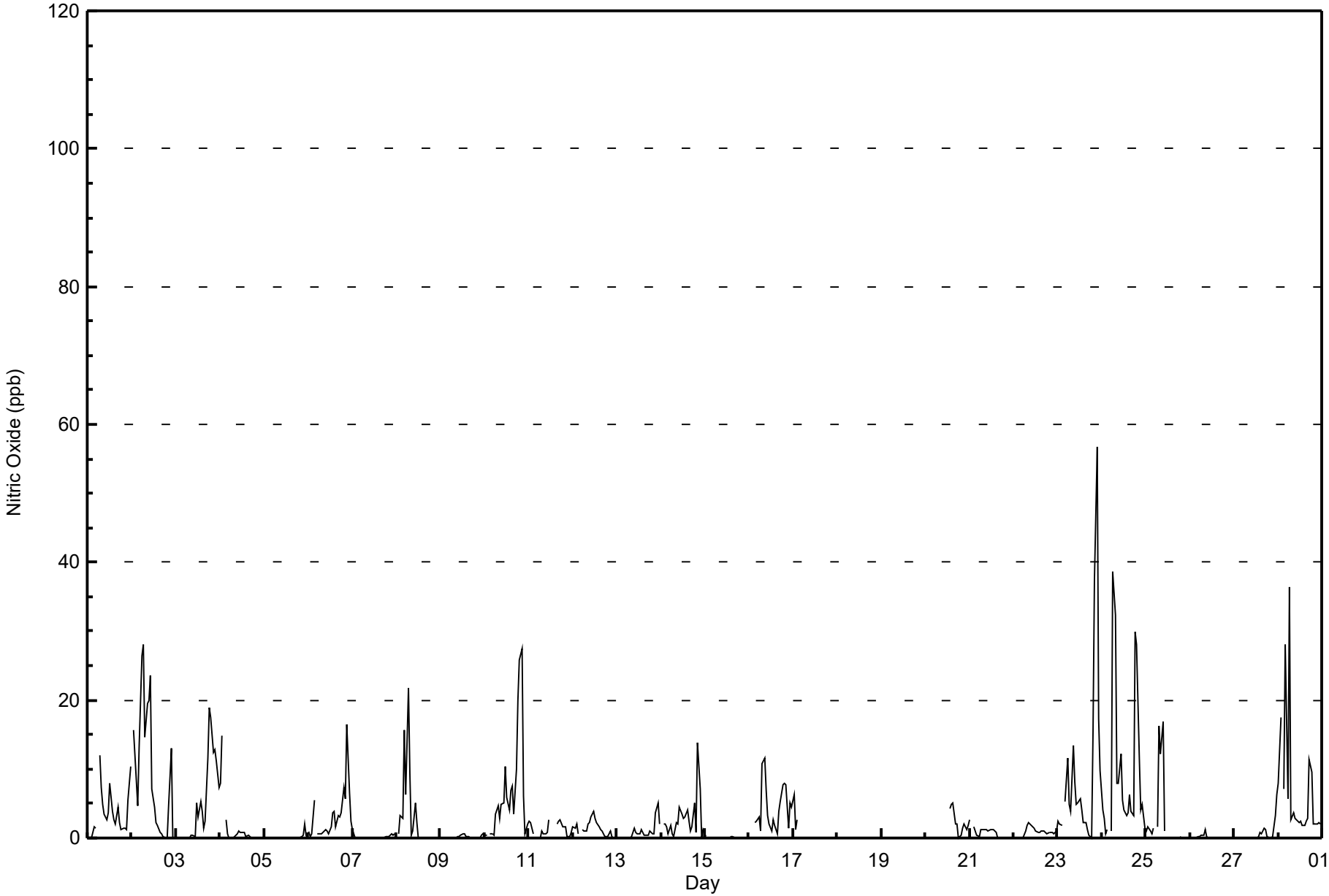
Z - zerospan C - Calibration M - Maintenance UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Firebag - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Nitric Oxide (NO) - ppb

Firebag - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	542	97.48	97.48
21 - 40	13	2.34	99.82
11 - 80	1	0.18	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 556

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Firebag - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	78	63	43	15	7	6	16	41	49	32	73	37	11	7	14	15	507
21 - 40	0	0	0	0	0	0	0	1	8	4	0	0	0	0	0	0	13
11 - 80	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	78	63	43	15	7	6	16	42	57	37	73	37	11	7	14	15	521

Total Number of Valid Hours: 521

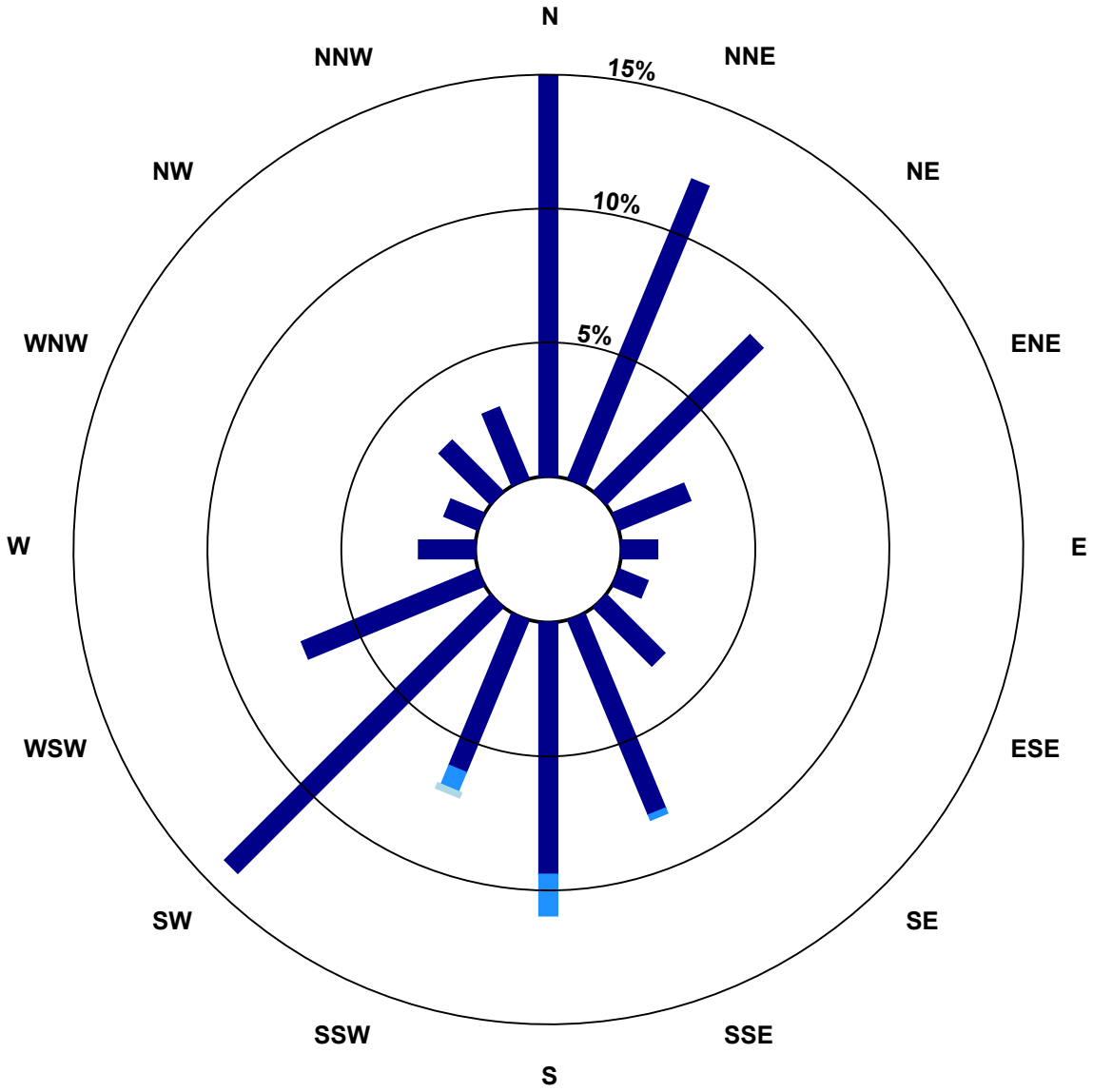
Total Number of Hours: 672

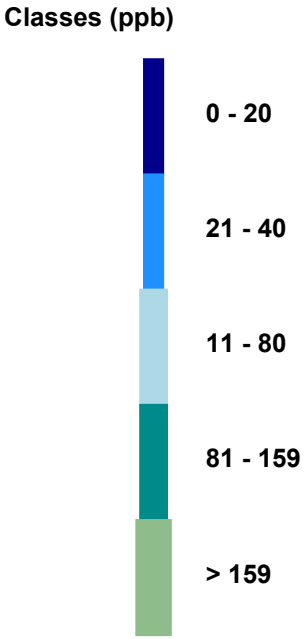
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Firebag





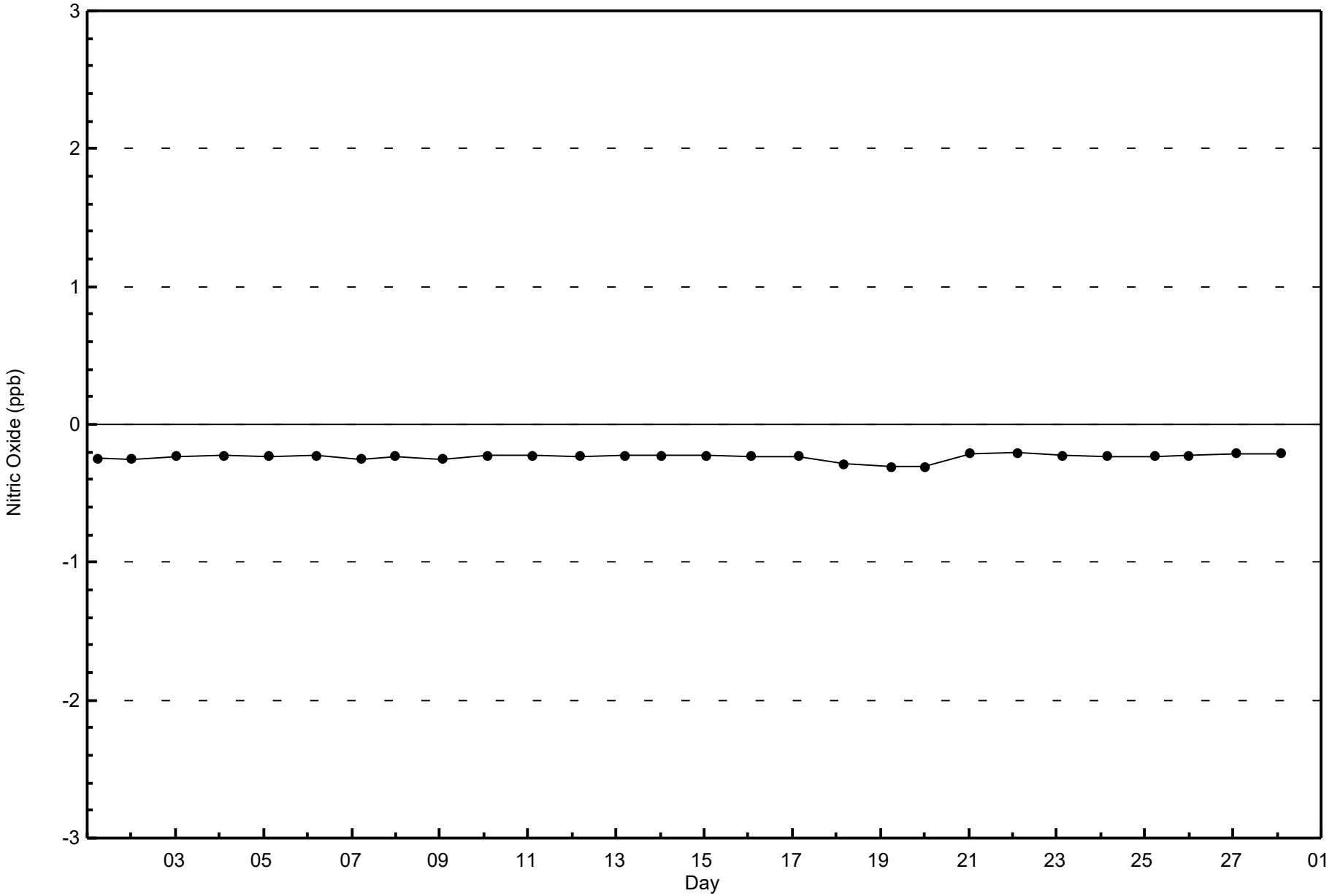
Total Number of Valid Hours: 521

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Firebag - February 2026

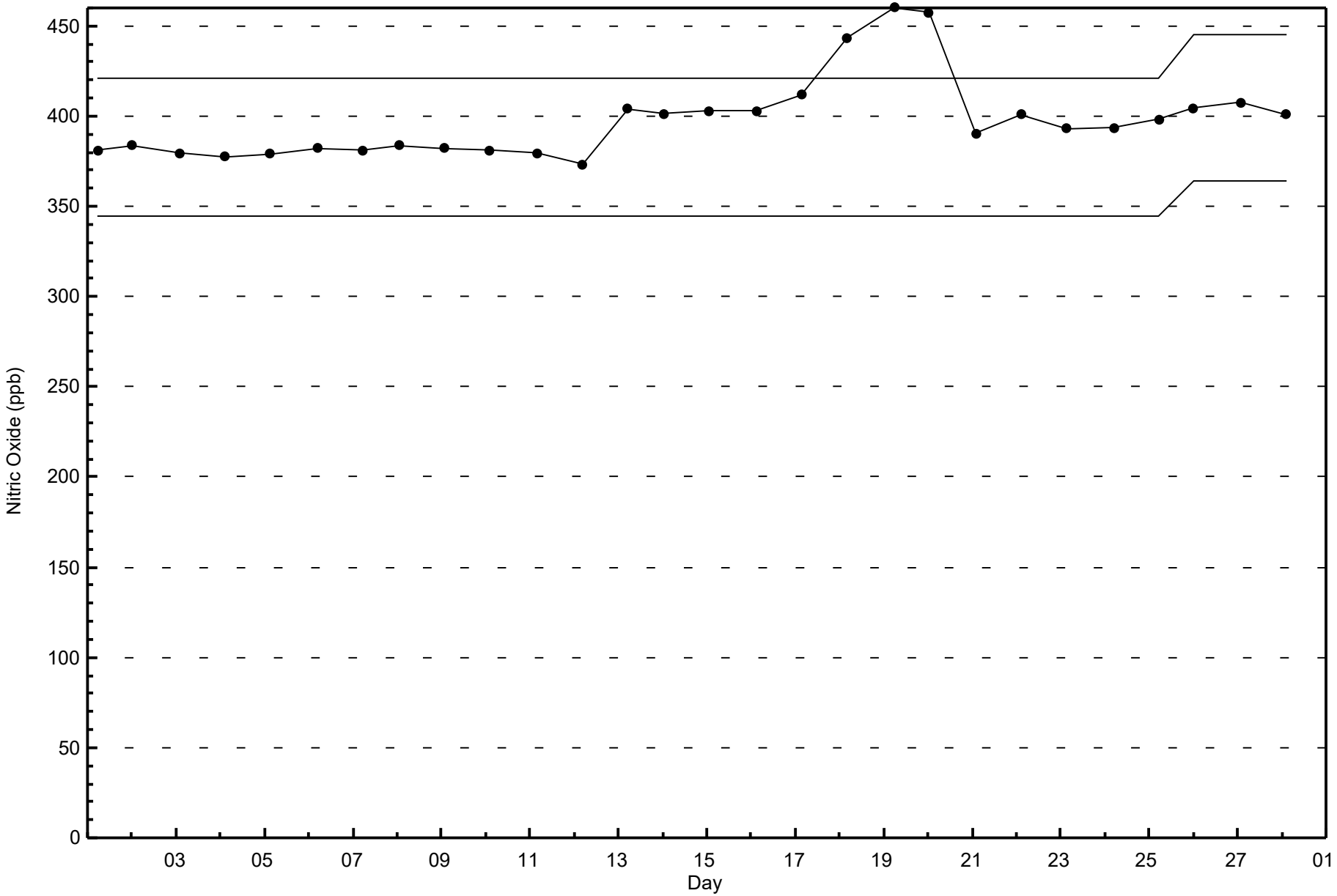


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Firebag - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Firebag - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 46.8 ppb on Feb 23 22:00

Maximum Daily Average: 17.2 ppb on Feb 24

Minimum Value: 0.1 ppb on Feb 27 11:00

Minimum Daily Average: 0.9 ppb on Feb 9

Maximum Diurnal Average: 9.9 ppb at hour 21

Minimum Diurnal Average: 2.8 ppb at hour 13

Monthly Average: 6.35 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.3 Q_1 = 0.8 Median = 3.9 Q_3 = 8.5 P_{90} = 16.1 P_{99} = 36.9

Hours in Service:	672
Hours of Data:	556
Hours of Missing Data:	116
Hours of Calibration:	32
Percent Operational Time:	87.5

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.7	0.5	0.6	5.4	5.8	Z	18.5	13.2	11.0	6.3	5.1	4.6	8.1	5.9	4.6	4.3	8.2	6.1	3.4	3.9	3.9	3.4	8.9	13.7	6.4	18.5
2-Feb	Z	19.1	12.7	9.2	17.2	26.2	28.7	15.9	21.7	20.7	21.3	8.2	6.1	2.9	3.2	3.0	8.4	13.3	10.5	12.6	19.7	27.1	9.7	3.8	14.0	28.7
3-Feb	1.4	Z	1.1	0.7	0.5	0.6	0.5	0.5	1.6	1.6	0.9	8.5	6.3	7.8	6.5	4.2	5.7	11.5	14.8	15.4	11.2	11.1	11.2	8.7	5.8	15.4
4-Feb	8.8	12.5	Z	5.5	3.5	2.6	4.4	5.6	4.9	3.8	2.9	2.3	2.0	2.3	1.2	1.9	3.1	0.6	0.5	0.4	0.3	0.3	0.3	0.3	3.0	12.5
5-Feb	0.2	0.2	0.2	Z	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.4	0.3	0.9	3.6	9.1	3.8	1.0	9.1
6-Feb	5.3	3.0	4.0	9.4	Z	3.1	3.2	3.5	3.7	3.4	2.5	2.0	2.9	5.5	5.8	3.6	7.2	6.9	8.0	10.5	10.3	18.7	16.4	8.7	6.4	18.7
7-Feb	6.2	8.1	7.9	11.5	15.1	Z	0.7	0.5	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.8	4.2	4.4	4.2	2.2	2.6	4.0	3.3	15.1
8-Feb	Z	4.3	9.0	6.5	15.9	9.0	21.2	10.8	2.1	5.5	14.4	6.6	0.4	0.4	0.3	0.4	0.7	0.5	0.4	0.6	0.3	0.3	0.3	0.4	4.8	21.2
9-Feb	0.3	Z	0.4	0.5	0.6	0.5	0.7	0.5	0.5	0.8	0.6	0.9	1.6	1.4	0.8	0.7	0.6	0.7	0.4	0.3	0.8	0.7	4.1	3.4	0.9	4.1
10-Feb	3.4	2.3	Z	3.6	3.1	3.1	6.4	9.7	6.1	5.5	5.6	7.8	6.1	5.7	7.3	9.3	6.7	12.7	20.0	23.8	25.7	11.6	3.3	7.2	8.5	25.7
11-Feb	5.5	4.9	4.5	Z	3.4	3.7	4.6	8.1	4.5	2.8	2.2	3.1	M	M	M	5.2	6.8	7.1	5.7	4.0	4.0	3.7	2.7	9.2	4.8	9.2
12-Feb	9.4	7.7	5.7	5.2	Z	7.3	5.7	6.5	8.9	7.2	6.1	5.9	4.2	3.6	2.6	4.0	4.8	1.9	1.9	2.2	2.4	2.5	3.7	3.6	4.9	9.4
13-Feb	2.8	3.7	3.4	2.2	1.8	Z	2.1	2.0	2.5	4.5	2.5	1.7	1.8	2.6	2.3	2.1	3.5	9.3	7.8	4.5	6.2	16.3	12.5	18.9	5.1	18.9
14-Feb	Z	20.8	14.3	12.8	10.7	14.7	6.6	8.8	9.8	6.4	8.4	6.4	5.6	6.1	8.4	8.4	8.8	17.5	39.0	32.5	38.3	31.8	19.0	25.0	15.7	39.0
15-Feb	18.4	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.2	0.4	0.6	0.5	0.2	0.2	3.3	1.2	18.4
16-Feb	1.9	0.3	Z	4.8	12.7	19.5	19.3	24.3	15.3	7.4	3.2	1.4	0.7	1.6	1.4	0.9	3.6	8.5	11.1	12.0	12.3	2.8	10.2	8.6	8.0	24.3
17-Feb	12.0	2.7	4.9	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	12.0
18-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
19-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
20-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	5.9	7.7	9.6	7.8	13.0	6.6	8.5	10.1	9.9	6.4	6.9	--	13.0
21-Feb	9.0	Z	6.1	4.0	1.8	1.4	5.4	4.7	3.7	2.6	1.9	2.2	2.1	2.2	1.6	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.2	0.2	2.2	9.0
22-Feb	0.2	0.2	Z	0.2	0.2	0.3	3.8	8.7	3.5	2.9	2.0	1.7	1.3	1.2	1.3	1.7	2.0	2.1	2.2	2.1	2.3	2.3	2.1	2.7	2.0	8.7
23-Feb	5.4	5.9	5.5	Z	9.5	14.6	11.7	11.2	17.0	10.1	7.2	5.7	5.4	5.0	4.5	4.8	4.2	6.7	9.4	26.3	41.9	46.8	35.8	28.2	14.0	46.8
24-Feb	28.4	22.8	19.8	20.2	Z	18.2	38.3	34.2	16.3	10.4	9.9	4.6	3.9	3.9	4.8	8.3	9.0	14.2	38.7	32.5	25.3	12.9	12.6	5.7	17.2	38.7
25-Feb	4.6	6.9	5.8	6.2	9.7	Z	10.9	24.0	20.1	18.6	2.1	C	C	C	C	C	C	C	24.8	15.1	17.0	9.4	2.7	1.5	--	24.8
26-Feb	Z	0.9	1.2	1.2	4.5	6.2	4.0	4.0	3.2	1.0	0.6	0.6	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	1.4	6.2
27-Feb	0.3	Z	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.6	0.6	2.0	4.9	5.6	3.1	0.9	1.4	5.7	13.4	1.8	13.4
28-Feb	16.3	29.6	Z	12.6	23.1	9.8	24.9	6.6	5.6	3.6	2.4	2.1	2.1	1.8	1.9	2.6	4.8	15.5	13.6	6.3	7.4	4.7	5.6	6.0	9.1	29.6
	6.7	7.8	5.4	5.8	6.7	7.1	9.3	8.5	6.8	5.3	4.3	3.4	2.8	2.9	3.0	3.2	4.1	6.4	9.2	8.9	9.9	9.0	7.4	7.5	Diurnal Average	
	28.4	29.6	19.8	20.2	23.1	26.2	38.3	34.2	21.7	20.7	21.3	8.5	8.1	7.8	8.4	9.6	9.0	17.5	39.0	32.5	41.9	46.8	35.8	28.2	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance UO - Unstable Operation

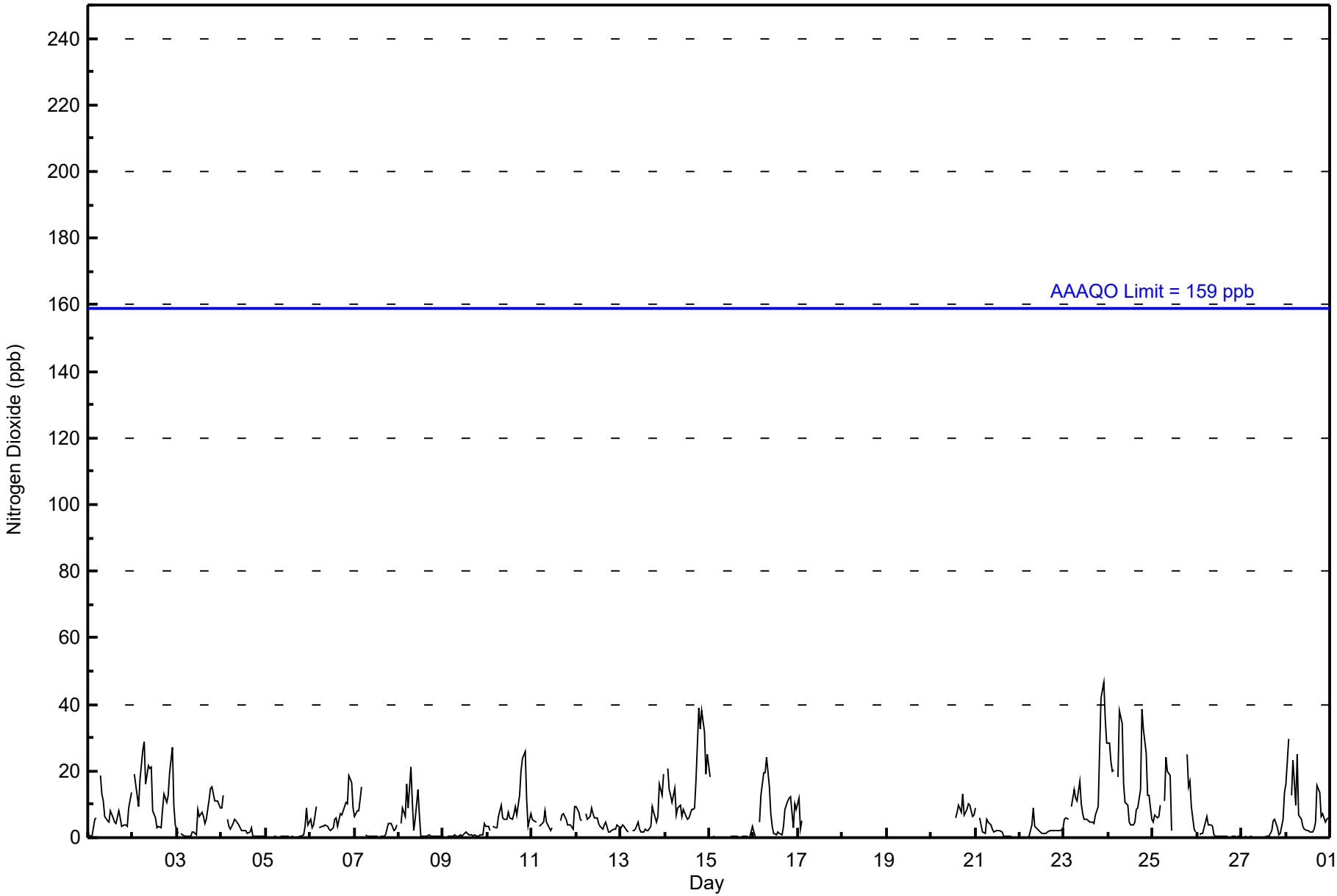
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Firebag - February 2026



Nitrogen Dioxide (NO_2) - ppb
Firebag - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	523	94.06	94.06
21 - 40	31	5.58	99.64
11 - 80	2	0.36	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 556

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Firebag - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	75	63	43	14	7	6	16	39	47	29	70	35	11	7	14	12	488
21 - 40	3	0	0	1	0	0	0	3	10	6	3	2	0	0	0	3	31
11 - 80	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	78	63	43	15	7	6	16	42	57	37	73	37	11	7	14	15	521

Total Number of Valid Hours: 521

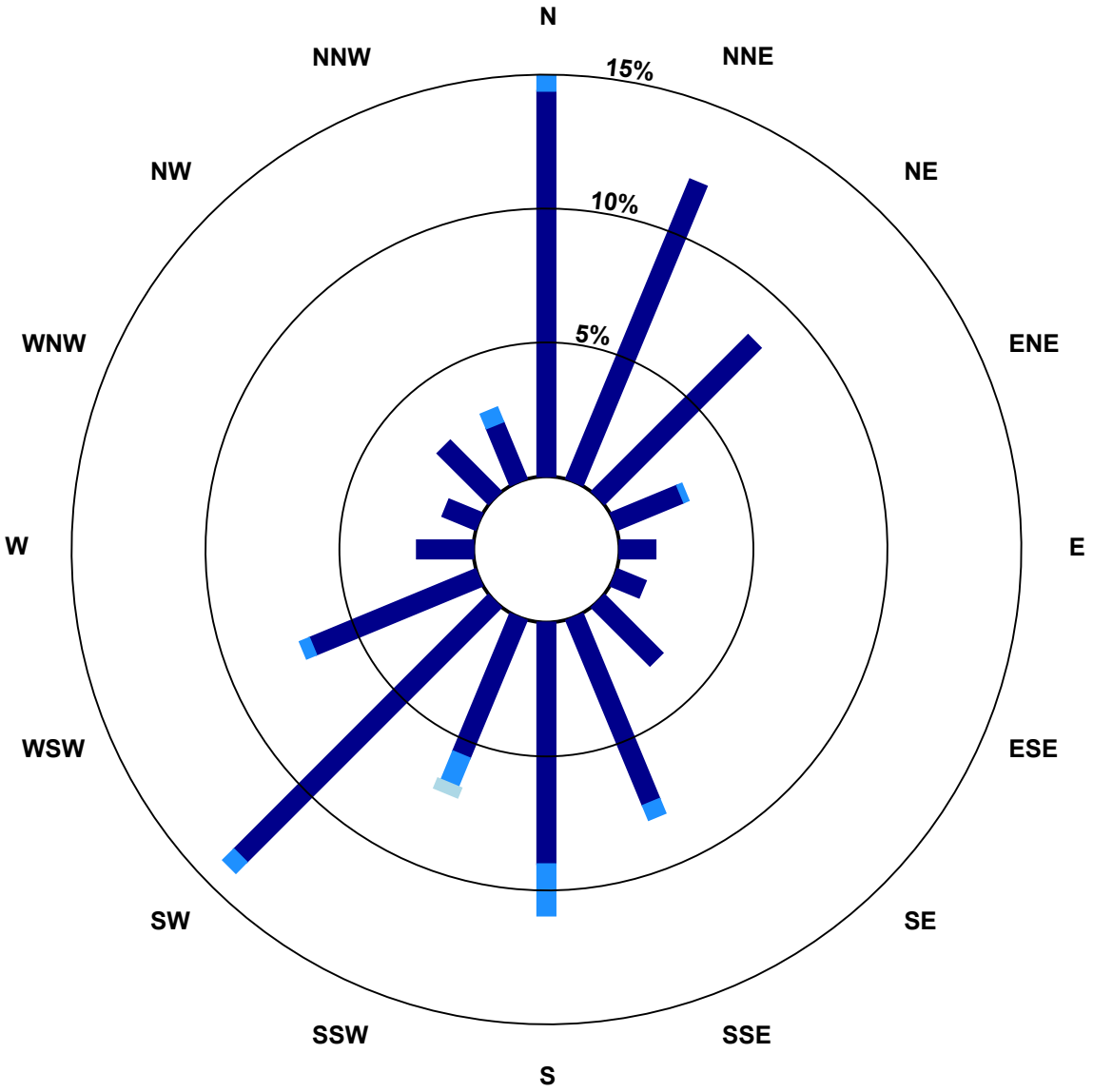
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Firebag



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

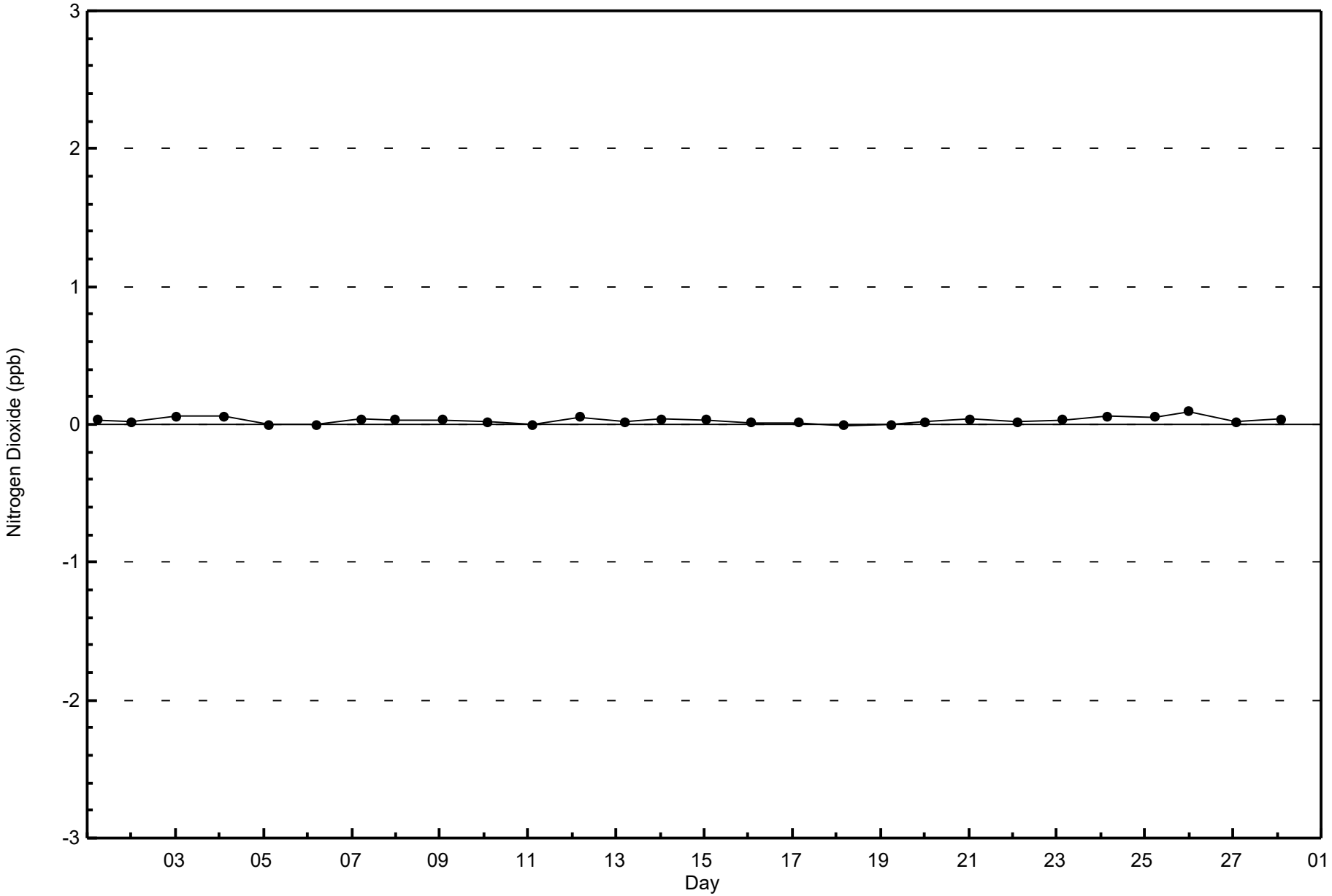
Total Number of Valid Hours: 521

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Firebag - February 2026

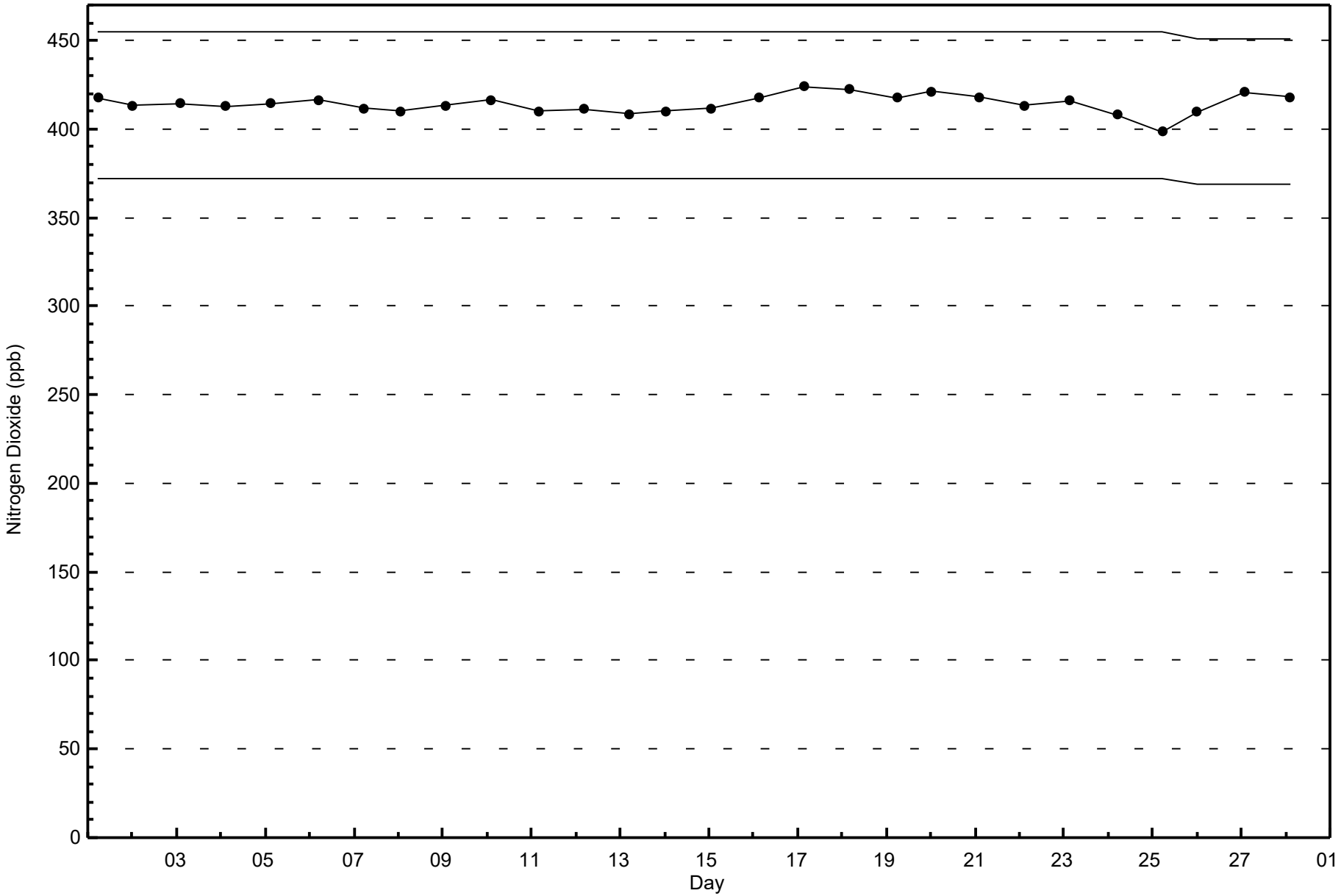


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Firebag - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Firebag - February 2026

Maximum Value: 103.6 ppb on Feb 23 22:00

Maximum Daily Average: 26.7 ppb on Feb 24

Minimum Value: 0.2 ppb on Feb 27 04:00

Minimum Daily Average: 1.1 ppb on Feb 5

Maximum Diurnal Average: 15.6 ppb at hour 7

Minimum Diurnal Average: 4.8 ppb at hour 15

Monthly Average: 9.43 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.3 Q_1 = 0.9 Median = 5.0 Q_3 = 11.5 P_{90} = 23.1 P_{99} = 60.8

Hours in Service:	672
Hours of Data:	556
Hours of Missing Data:	116
Hours of Calibration:	32
Percent Operational Time:	87.5

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.7	0.5	0.6	7.1	7.2	Z	30.5	20.6	15.9	9.8	7.8	8.2	16.0	9.8	7.3	6.2	12.8	8.3	4.6	5.4	5.2	4.6	14.3	24.1	9.9	30.5
2-Feb	Z	34.9	21.0	13.8	30.5	52.7	56.7	30.6	41.2	40.6	44.8	15.3	10.6	5.1	5.1	3.9	8.9	13.4	10.6	12.7	24.4	40.1	9.8	3.8	23.1	56.7
3-Feb	1.4	Z	1.1	0.7	0.5	0.6	0.5	0.5	1.9	1.9	1.0	13.5	9.3	13.1	10.3	5.7	8.2	23.2	33.8	32.8	23.6	23.9	22.4	16.1	10.7	33.8
4-Feb	16.7	27.3	Z	8.1	4.1	2.7	4.4	5.6	5.1	4.5	3.8	3.2	2.8	3.2	1.5	2.2	3.3	0.6	0.5	0.4	0.3	0.3	0.3	0.3	4.4	27.3
5-Feb	0.2	0.2	0.2	Z	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.4	0.3	1.1	4.0	11.2	4.1	1.1	11.2
6-Feb	6.2	3.3	4.7	14.9	Z	3.7	3.7	4.0	4.5	4.5	3.6	2.7	4.6	9.2	9.7	5.3	10.5	9.9	11.7	17.9	16.0	35.2	23.0	11.2	9.6	35.2
7-Feb	7.4	8.1	8.0	11.6	15.2	Z	0.7	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.9	4.4	4.6	4.5	2.9	3.1	4.5	3.5	15.2
8-Feb	Z	4.9	12.2	9.4	31.6	15.3	43.0	20.1	2.5	6.5	19.4	8.9	0.5	0.5	0.4	0.4	0.8	0.5	0.4	0.6	0.3	0.3	0.3	0.4	7.8	43.0
9-Feb	0.3	Z	0.4	0.6	0.6	0.5	0.7	0.5	0.5	0.9	0.8	1.3	2.3	2.0	1.1	0.8	0.7	0.7	0.4	0.3	0.8	0.8	4.5	4.0	1.1	4.5
10-Feb	3.9	2.7	Z	4.2	3.6	3.6	9.9	14.3	9.0	10.4	10.6	18.2	12.0	9.9	14.1	16.9	10.2	22.7	40.0	49.7	53.1	17.8	3.8	9.2	15.2	53.1
11-Feb	8.0	7.1	5.2	Z	3.5	3.8	4.7	9.2	5.1	3.5	3.1	5.7	M	M	M	7.2	9.1	9.7	7.3	5.5	5.6	3.9	3.0	10.0	6.0	10.0
12-Feb	10.9	9.2	7.6	5.8	Z	8.6	6.8	7.6	10.9	9.5	9.2	9.7	7.1	5.8	4.1	5.3	5.8	2.1	2.1	2.5	3.3	2.7	3.7	3.6	6.3	10.9
13-Feb	2.8	3.7	3.4	2.2	1.8	Z	2.1	2.0	2.7	5.9	3.3	2.3	2.5	3.8	3.0	2.6	3.9	9.6	8.9	5.2	6.9	19.9	17.5	20.9	6.0	20.9
14-Feb	Z	22.8	16.4	14.3	11.2	16.6	7.2	9.1	12.0	8.5	12.9	9.9	8.5	9.2	12.4	10.8	9.9	19.1	44.1	33.2	52.0	38.9	19.1	26.2	18.4	52.0
15-Feb	18.5	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.2	0.2	0.4	0.6	0.5	0.2	0.2	3.3	1.2	18.5
16-Feb	1.9	0.3	Z	7.1	15.2	22.5	20.2	35.2	26.9	14.2	6.4	3.5	1.6	4.2	3.2	1.6	7.4	13.8	18.8	20.0	20.1	4.2	15.3	13.0	12.0	35.2
17-Feb	18.4	4.0	7.5	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	18.4
18-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
19-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	--
20-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	10.2	12.6	14.7	9.9	15.1	6.6	8.9	11.6	12.0	7.6	8.8	--	15.1
21-Feb	11.5	Z	7.6	5.0	2.2	1.6	6.6	5.9	5.0	3.9	2.9	3.4	3.3	3.5	2.4	0.6	0.5	0.3	0.3	0.3	0.2	0.2	0.2	0.2	2.9	11.5
22-Feb	0.2	0.2	Z	0.2	0.2	0.3	4.8	10.5	5.8	5.0	3.7	3.1	2.2	2.1	2.2	2.7	3.0	2.8	2.9	2.9	3.1	3.2	2.8	3.7	2.9	10.5
23-Feb	7.8	8.0	7.3	Z	14.7	26.2	16.5	15.1	30.3	18.2	12.1	10.7	11.1	9.1	6.6	7.1	5.4	7.2	9.4	41.8	79.2	103.6	53.1	37.9	23.4	103.6
24-Feb	32.5	25.6	20.3	21.4	Z	19.2	76.8	66.4	24.3	18.4	22.2	10.1	7.9	7.2	8.5	14.6	12.9	17.4	68.6	60.6	36.9	17.0	17.5	7.2	26.7	76.8
25-Feb	5.7	8.6	6.8	6.9	11.1	Z	12.4	40.3	32.4	35.4	3.1	C	C	C	C	C	C	C	25.0	15.1	17.0	9.4	2.7	1.5	--	40.3
26-Feb	Z	0.9	1.3	1.3	4.8	6.5	4.4	4.4	4.4	1.2	0.7	0.6	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	1.5	6.5
27-Feb	0.3	Z	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.4	1.4	1.3	3.5	6.2	5.7	3.1	0.9	1.6	9.0	19.7	2.4	19.7
28-Feb	24.3	47.1	Z	19.8	51.2	15.4	61.2	9.2	9.3	6.5	5.0	4.3	4.6	3.7	3.8	5.0	7.6	27.0	23.2	8.4	9.5	6.8	7.8	8.0	16.0	61.2
	8.6	11.0	6.6	7.4	10.0	10.0	15.6	13.0	10.5	8.8	7.4	5.9	4.9	4.9	4.8	4.8	5.6	8.8	13.2	13.3	15.0	14.2	10.1	9.7	Diurnal Average	
	32.5	47.1	21.0	21.4	51.2	52.7	76.8	66.4	41.2	40.6	44.8	18.2	16.0	13.1	14.1	16.9	12.9	27.0	68.6	60.6	79.2	103.6	53.1	37.9	Diurnal Maximum	

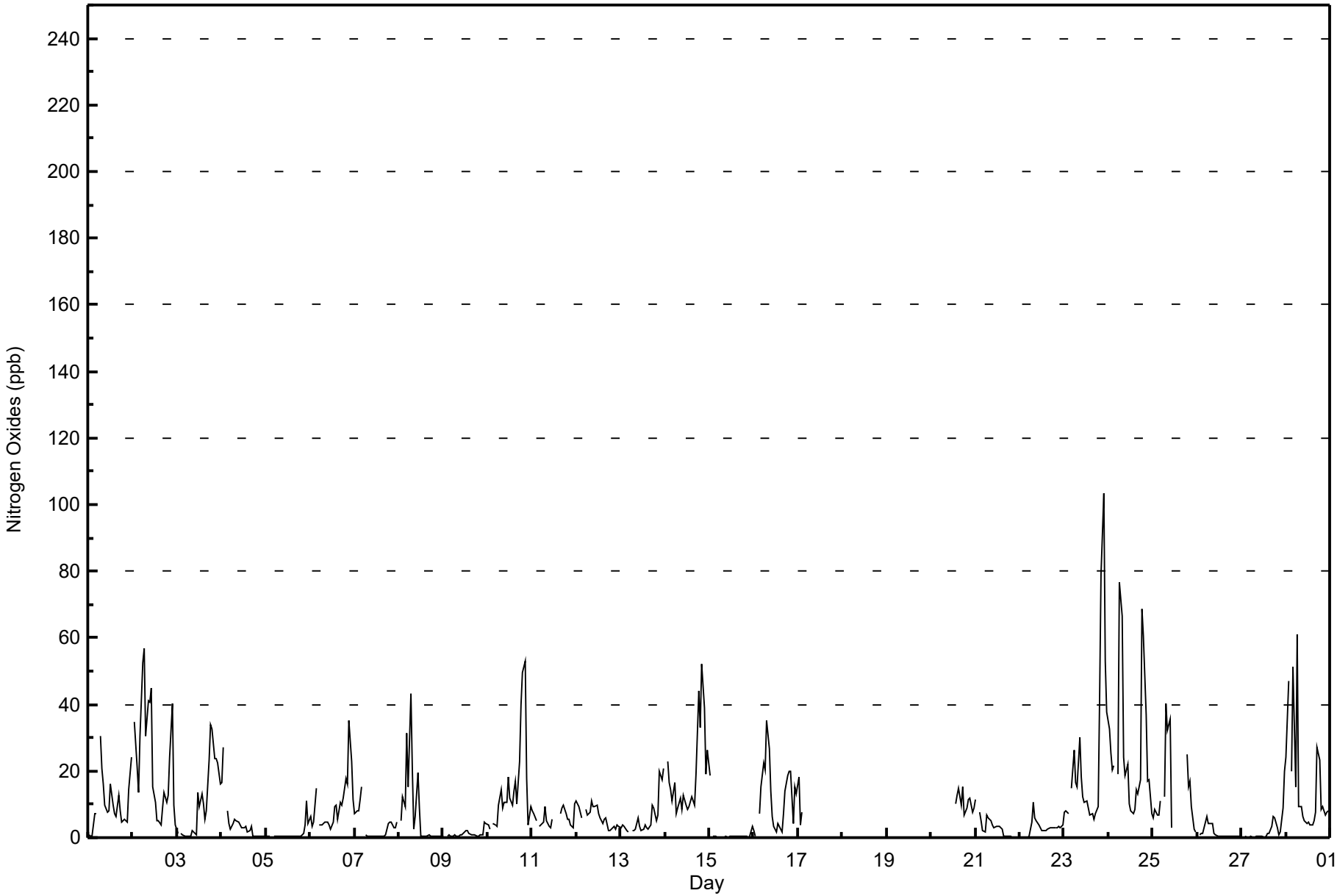
Z - zerospan C - Calibration M - Maintenance UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Firebag - February 2026



Nitrogen Oxides (NO_X) - ppb

Firebag - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	490	88.13	88.13
21 - 40	45	8.09	96.22
11 - 80	20	3.60	99.82
81 - 159	1	0.18	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 556

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Firebag - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	75	63	43	13	7	6	16	38	26	25	68	33	11	7	13	11	455
21 - 40	2	0	0	1	0	0	0	3	21	5	4	4	0	0	1	4	45
11 - 80	1	0	0	1	0	0	0	1	10	6	1	0	0	0	0	0	20
81 - 159	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	78	63	43	15	7	6	16	42	57	37	73	37	11	7	14	15	521

Total Number of Valid Hours: 521

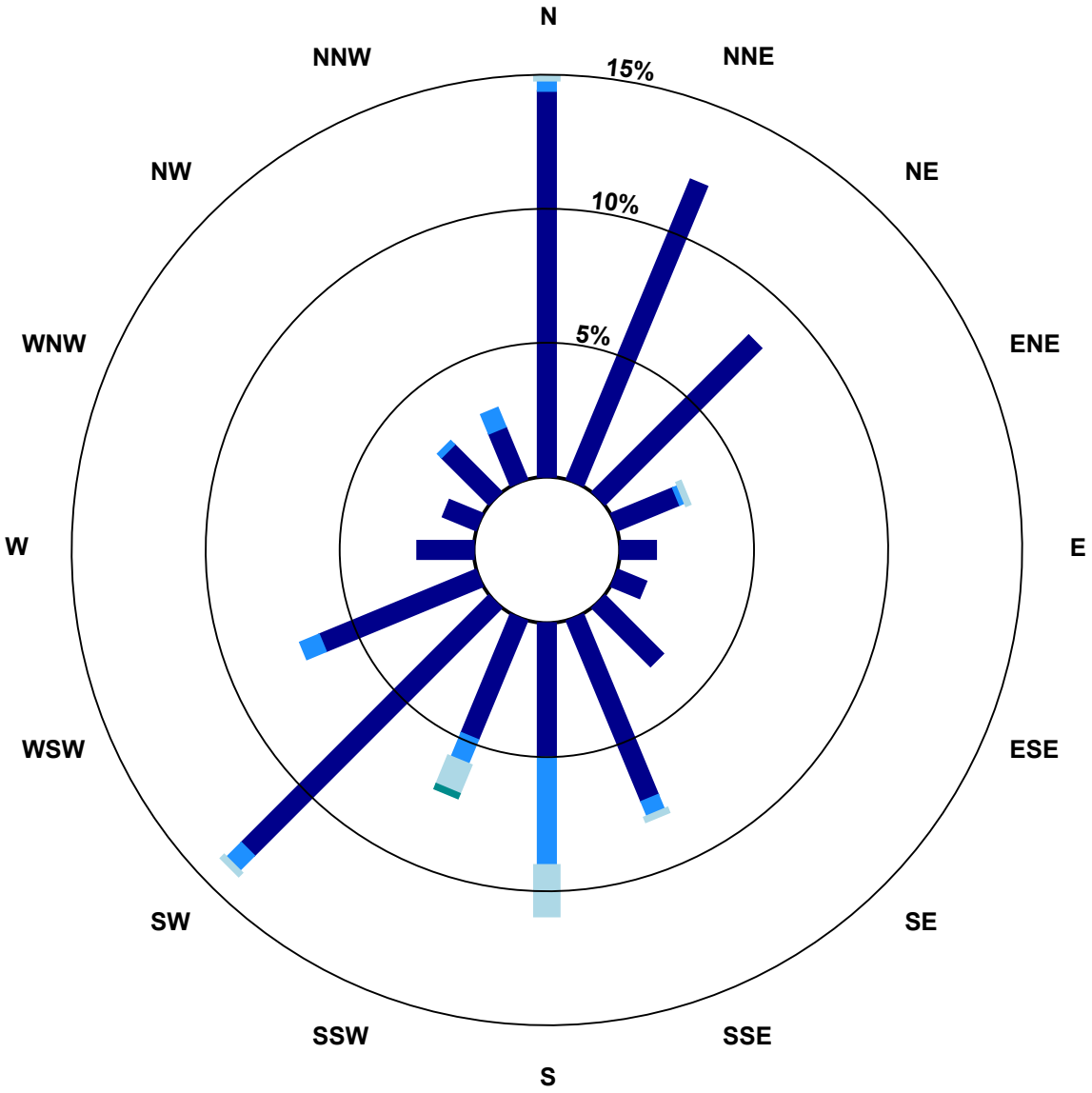
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Firebag



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

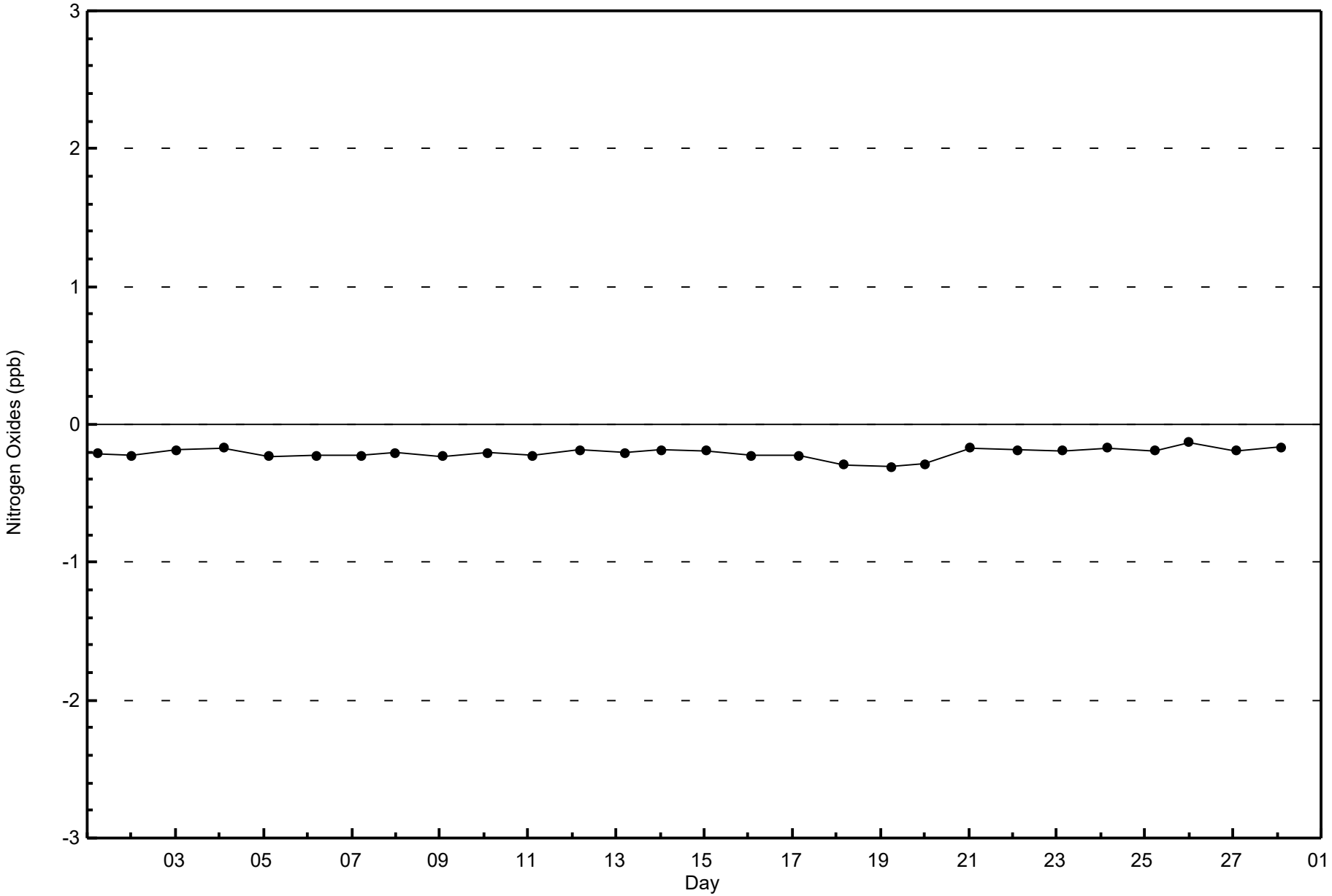
Total Number of Valid Hours: 521

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Firebag - February 2026

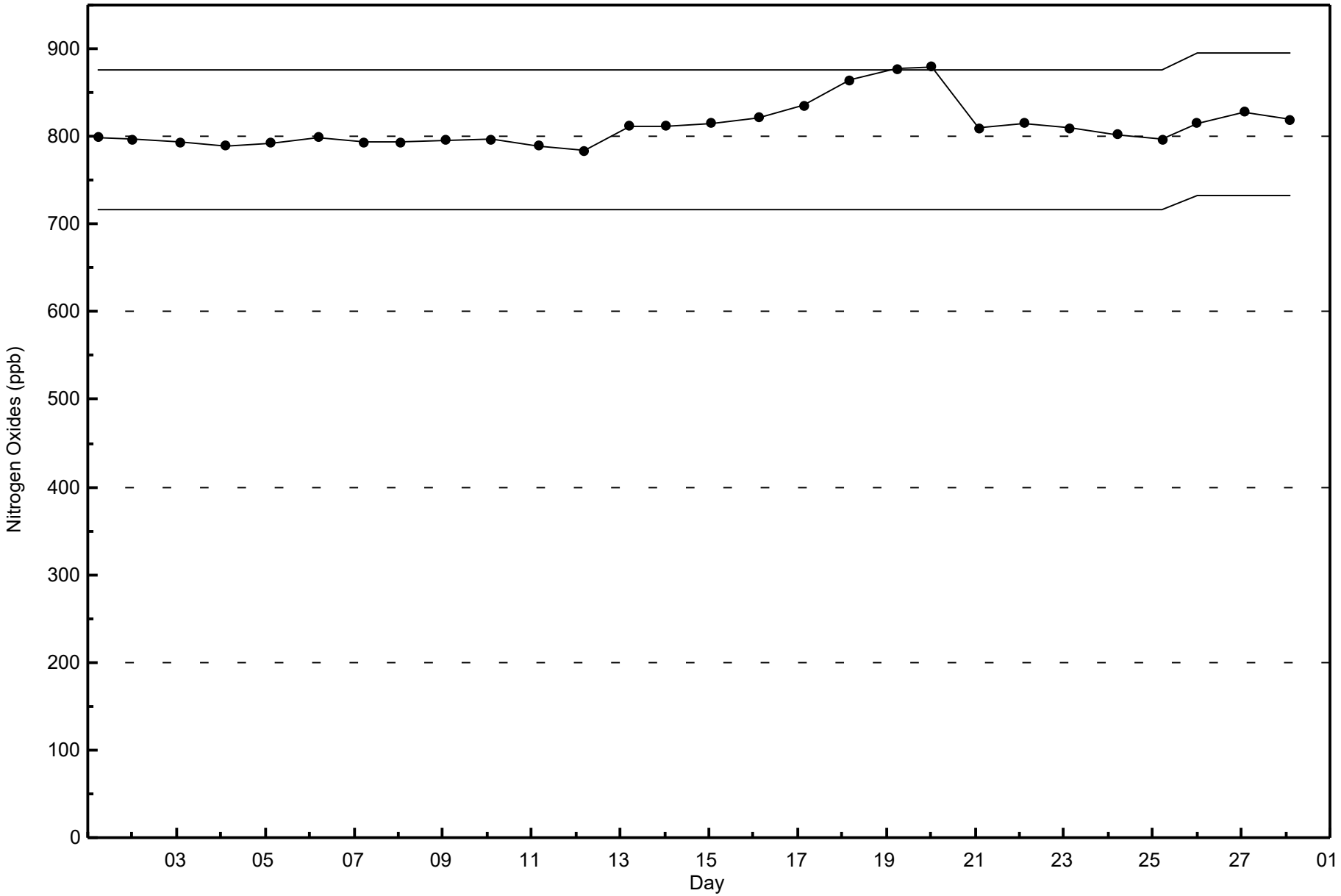


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Firebag - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ambient Temperature 2m (AT2) - C

Firebag - February 2026

Maximum Value: 7.2 C on Feb 4 16:00

Maximum Daily Average: -0.1 C on Feb 4

Minimum Value: -36.8 C on Feb 28 01:00

Minimum Daily Average: -32.4 C on Feb 18

Maximum Diurnal Average: -12.9 C at hour 16

Minimum Diurnal Average: -17.6 C at hour 7

Monthly Average: -15.77 C

Percentiles: P_1 = -35.1 P_{10} = -29.8 Q_1 = -23.2 Median = -15.7 Q_3 = -8.2 P_{90} = -1.9 P_{99} = 2.7

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

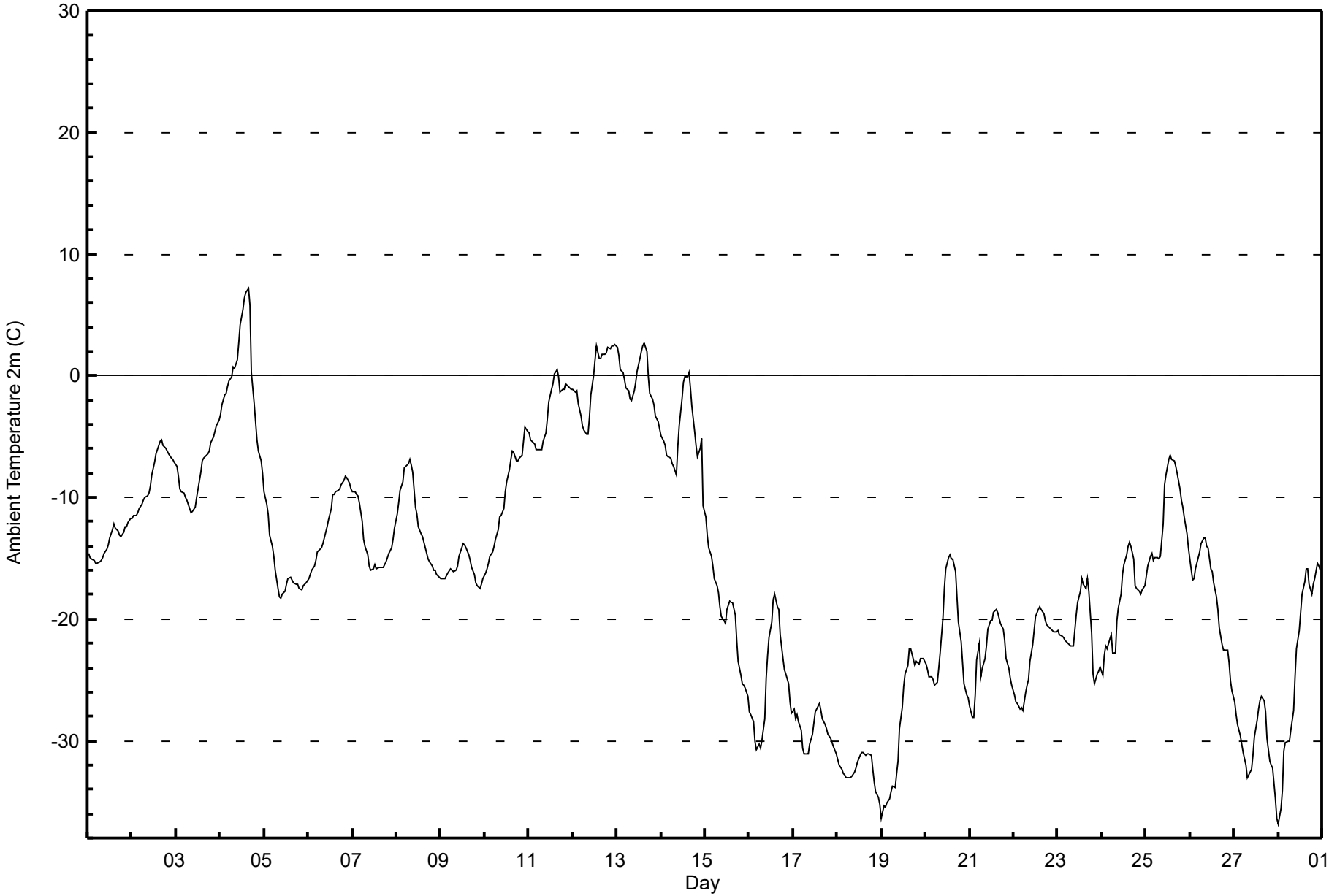
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-14.6	-14.9	-15.1	-15.2	-15.4	-15.4	-15.3	-15.1	-14.9	-14.6	-14.3	-13.9	-13.3	-12.6	-12.2	-12.5	-12.8	-13.1	-13.2	-12.9	-12.5	-12.4	-12.0	-11.8	-13.8	-11.8
2-Feb	-11.7	-11.5	-11.5	-11.2	-10.9	-10.6	-10.3	-10.0	-9.9	-9.7	-9.1	-8.1	-7.1	-6.4	-6.1	-5.4	-5.3	-5.7	-6.0	-6.2	-6.4	-6.8	-6.9	-7.1	-8.3	-5.3
3-Feb	-7.5	-8.3	-9.4	-9.6	-9.6	-10.0	-10.2	-11.0	-11.3	-11.2	-10.8	-10.0	-9.3	-7.9	-7.0	-6.7	-6.7	-6.4	-6.2	-5.5	-5.0	-4.6	-4.2	-3.7	-8.0	-3.7
4-Feb	-3.2	-2.3	-1.6	-1.5	-0.9	-0.5	-0.1	0.8	0.6	1.3	2.7	4.2	5.4	6.4	6.8	7.2	5.8	0.3	-2.3	-3.8	-5.2	-6.1	-7.0	-8.0	-0.1	7.2
5-Feb	-9.5	-10.6	-11.4	-13.1	-14.0	-14.8	-15.9	-17.5	-18.1	-18.2	-18.0	-17.7	-17.2	-16.7	-16.6	-16.8	-17.0	-17.1	-17.2	-17.5	-17.6	-17.3	-17.1	-17.0	-16.0	-9.5
6-Feb	-16.7	-16.3	-16.0	-15.7	-15.2	-14.5	-14.2	-14.1	-13.8	-12.9	-12.4	-11.8	-10.9	-9.8	-9.7	-9.6	-9.5	-9.3	-9.0	-8.6	-8.3	-8.4	-8.8	-9.2	-11.9	-8.3
7-Feb	-9.6	-9.6	-9.8	-9.9	-10.4	-12.0	-13.5	-14.1	-14.8	-15.7	-16.0	-15.9	-15.5	-15.9	-15.7	-15.7	-15.8	-15.8	-15.3	-15.0	-14.6	-14.1	-13.4	-12.5	-13.8	-9.6
8-Feb	-11.4	-10.5	-9.5	-8.8	-7.6	-7.5	-7.2	-6.9	-7.3	-7.9	-10.8	-11.4	-12.4	-12.9	-13.2	-13.6	-14.6	-15.1	-15.3	-15.7	-15.9	-16.0	-16.3	-16.6	-11.9	-6.9
9-Feb	-16.7	-16.7	-16.7	-16.5	-16.2	-15.9	-16.0	-16.1	-15.9	-15.6	-14.9	-14.5	-13.8	-13.9	-14.2	-14.7	-15.2	-15.7	-16.3	-17.0	-17.2	-17.5	-17.1	-16.7	-15.9	-13.8
10-Feb	-16.2	-15.9	-15.4	-14.9	-14.5	-14.0	-13.4	-12.6	-11.7	-11.4	-10.9	-9.6	-8.8	-7.7	-6.8	-6.2	-6.3	-6.9	-7.0	-6.7	-6.6	-5.4	-4.3	-4.6	-9.9	-4.3
11-Feb	-4.7	-5.3	-5.6	-5.6	-6.1	-6.0	-6.0	-6.1	-5.4	-4.7	-3.5	-2.2	-1.1	-0.6	0.2	0.4	-0.1	-1.4	-1.1	-1.1	-0.7	-0.8	-1.0	-1.1	-2.9	0.4
12-Feb	-1.1	-1.4	-1.3	-2.2	-3.3	-4.1	-4.4	-4.8	-4.8	-3.5	-1.5	0.1	1.3	2.5	1.5	1.5	1.7	1.8	1.8	2.3	2.2	2.4	2.5	2.6	-0.3	2.6
13-Feb	2.3	1.7	0.5	0.2	-0.3	-1.0	-1.3	-1.9	-2.0	-1.2	-0.5	0.4	1.4	2.0	2.5	2.7	2.0	0.0	-1.5	-1.9	-2.4	-3.3	-3.7	-4.3	-0.4	2.7
14-Feb	-4.9	-5.3	-5.7	-6.5	-6.7	-6.8	-7.3	-7.5	-8.2	-5.8	-4.2	-2.0	-0.5	-0.1	-0.1	0.3	-1.0	-2.6	-4.6	-5.8	-6.7	-6.0	-5.2	-10.7	-4.7	0.3
15-Feb	-11.6	-13.1	-14.1	-14.8	-15.7	-16.7	-17.3	-17.9	-19.0	-19.8	-20.1	-20.4	-19.2	-18.6	-18.7	-18.7	-19.7	-21.8	-23.4	-24.7	-25.3	-25.5	-25.6	-26.3	-19.5	-11.6
16-Feb	-27.6	-27.8	-28.4	-30.1	-30.7	-30.2	-30.6	-29.9	-28.2	-24.9	-23.0	-21.5	-20.2	-18.4	-18.0	-18.9	-19.2	-21.3	-23.2	-24.1	-24.5	-25.3	-26.8	-27.7	-25.0	-18.0
17-Feb	-27.4	-28.2	-27.8	-28.4	-29.2	-30.6	-31.0	-31.1	-31.1	-30.3	-29.5	-28.5	-27.6	-27.2	-26.9	-27.5	-28.2	-28.6	-29.0	-29.4	-29.8	-30.1	-30.5	-31.1	-29.1	-26.9
18-Feb	-31.5	-32.0	-32.4	-32.7	-32.9	-33.0	-33.0	-33.1	-32.9	-32.6	-32.2	-31.8	-31.2	-31.0	-31.0	-31.2	-31.1	-31.0	-31.2	-32.3	-33.4	-34.2	-34.6	-35.2	-32.4	-31.0
19-Feb	-36.4	-35.4	-35.4	-35.1	-34.8	-34.2	-33.8	-33.8	-32.7	-31.6	-29.1	-27.3	-25.5	-24.5	-23.8	-22.5	-22.4	-23.4	-23.8	-23.5	-23.7	-23.3	-23.2	-23.3	-28.4	-22.4
20-Feb	-23.7	-24.2	-24.7	-24.8	-25.0	-25.4	-25.2	-24.1	-22.7	-19.9	-17.5	-15.9	-15.0	-14.7	-15.0	-15.1	-16.1	-18.2	-20.3	-21.9	-23.6	-25.3	-26.2	-26.4	-21.3	-14.7
21-Feb	-27.1	-28.1	-28.1	-26.3	-23.4	-22.0	-24.8	-24.0	-23.2	-22.2	-20.8	-20.1	-20.1	-19.5	-19.3	-19.4	-19.8	-20.4	-20.8	-21.7	-23.2	-24.1	-24.8	-25.5	-22.9	-19.3
22-Feb	-26.2	-26.8	-27.0	-27.4	-27.3	-27.5	-26.1	-25.4	-24.9	-23.5	-22.1	-21.0	-19.8	-19.2	-18.9	-19.2	-19.6	-20.1	-20.5	-20.7	-20.8	-20.9	-21.0	-21.1	-22.8	-18.9
23-Feb	-21.0	-21.3	-21.4	-21.5	-21.8	-22.0	-22.1	-22.2	-22.2	-20.9	-19.7	-18.6	-17.7	-16.7	-17.1	-17.4	-16.7	-17.8	-21.2	-24.5	-25.3	-24.6	-24.3	-23.9	-20.9	-16.7
24-Feb	-24.6	-23.0	-22.2	-22.4	-21.7	-21.3	-22.8	-22.8	-20.2	-19.1	-17.9	-16.3	-15.5	-14.7	-14.1	-13.6	-14.1	-15.0	-17.3	-17.5	-17.7	-17.9	-17.6	-17.3	-18.6	-13.6
25-Feb	-16.5	-15.7	-14.8	-14.6	-15.2	-15.0	-15.0	-15.0	-14.8	-12.2	-8.9	-8.2	-6.9	-6.6	-6.9	-7.1	-7.4	-8.1	-9.4	-10.2	-10.8	-11.7	-13.0	-14.1	-11.6	-6.6
26-Feb	-15.0	-16.8	-16.7	-15.9	-14.9	-14.5	-13.8	-13.3	-13.4	-14.0	-14.1	-15.9	-16.2	-17.0	-18.1	-19.2	-20.7	-22.0	-22.6	-22.5	-22.5	-23.6	-25.1	-25.9	-18.1	-13.3
27-Feb	-26.8	-27.8	-28.7	-29.6	-30.3	-31.0	-32.0	-33.1	-32.8	-32.3	-31.3	-29.7	-28.3	-27.4	-26.8	-26.3	-26.6	-27.6	-29.9	-31.7	-32.0	-32.3	-34.7	-36.4	-30.2	-26.3
28-Feb	-36.8	-35.6	-34.1	-30.9	-30.2	-30.0	-30.0	-29.1	-27.5	-24.7	-22.4	-20.9	-19.4	-18.0	-16.9	-15.9	-15.9	-17.1	-17.9	-17.1	-16.7	-15.4	-15.6	-16.0	-23.1	-15.4
	-17.1	-17.2	-17.3	-17.3	-17.3	-17.4	-17.6	-17.6	-17.3	-16.4	-15.5	-14.6	-13.7	-13.1	-12.9	-12.9	-13.3	-14.3	-15.1	-15.6	-15.9	-16.1	-16.3	-16.8	Diurnal Average	
	2.3	1.7	0.5	0.2	-0.3	-0.5	-0.1	0.8	0.6	1.3	2.7	4.2	5.4	6.4	6.8	7.2	5.8	1.8	1.8	2.3	2.2	2.4	2.5	2.6	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Firebag - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	224	33.33	33.33
-20 - 0	411	61.16	94.49
0 - 10	37	5.51	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 96.2 % on Feb 4 03:00

Maximum Daily Average: 90.4 % on Feb 3

Minimum Value: 42.4 % on Feb 13 16:00

Minimum Daily Average: 53.5 % on Feb 13

Maximum Diurnal Average: 79.1 % at hour 9

Minimum Diurnal Average: 70.6 % at hour 16

Monthly Average: 76.55 %

Percentiles: P_1 = 48.0 P_{10} = 63.1 Q_1 = 69.6 Median = 76.7 Q_3 = 84.6 P_{90} = 88.4 P_{99} = 94.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

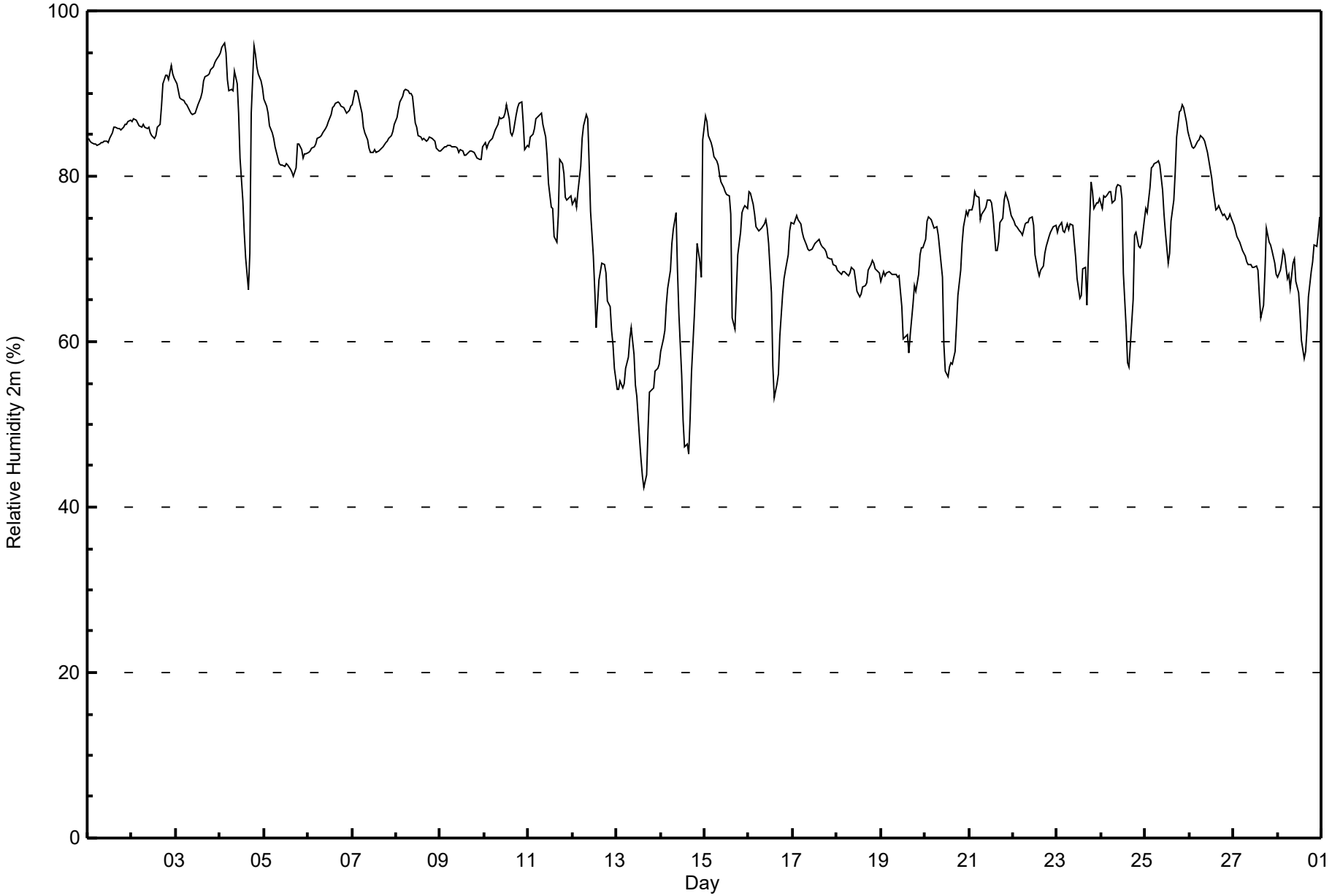
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	84.5	84.3	84.0	83.9	83.9	83.8	83.9	84.0	84.1	84.2	84.2	84.1	84.6	85.3	85.9	85.9	85.8	85.7	85.6	86.0	86.3	86.3	86.7	86.7	85.0	86.7
2-Feb	86.6	86.9	86.7	86.5	86.1	85.9	86.3	86.0	85.7	85.9	85.3	85.0	84.7	84.9	85.9	86.3	88.4	91.1	92.2	92.2	91.6	93.3	92.5	91.8	87.8	93.3
3-Feb	91.2	90.4	89.5	89.3	89.2	88.9	88.7	87.9	87.6	87.5	87.6	88.1	88.6	89.5	90.2	91.5	92.1	92.2	92.3	92.8	93.3	93.7	94.0	94.5	90.4	94.5
4-Feb	95.0	95.6	96.2	95.0	91.8	90.4	90.5	90.4	92.7	91.1	87.6	82.1	77.1	73.2	70.2	66.2	70.8	87.6	95.7	94.8	93.3	92.4	91.6	90.7	87.6	96.2
5-Feb	89.3	88.4	87.6	86.0	85.3	84.6	83.5	82.2	81.6	81.3	81.4	81.1	81.5	81.4	80.9	80.6	80.0	80.9	83.9	83.9	83.3	82.3	82.6	82.8	83.2	89.3
6-Feb	82.9	83.1	83.3	83.6	84.0	84.6	84.8	84.9	85.2	85.8	86.1	86.6	87.4	88.3	88.5	88.8	88.9	88.9	88.4	88.3	87.9	87.6	87.9	88.4	86.4	88.9
7-Feb	88.6	90.3	90.4	89.9	89.2	87.6	85.9	85.3	84.4	83.4	82.9	82.8	83.2	82.8	83.1	83.3	83.4	83.5	84.0	84.2	84.5	85.0	85.5	86.2	85.4	90.4
8-Feb	87.2	88.1	89.0	89.6	90.4	90.5	90.3	90.0	90.0	89.7	86.4	86.0	84.9	84.7	84.3	84.6	84.2	84.5	84.8	84.6	84.5	84.3	83.4	83.0	86.6	90.5
9-Feb	83.0	83.3	83.5	83.5	83.7	83.7	83.5	83.6	83.6	83.4	82.9	83.2	83.0	82.5	82.6	82.8	83.0	83.0	82.9	82.5	82.2	82.0	82.1	83.6	83.0	83.7
10-Feb	84.1	83.4	84.0	84.3	84.6	85.1	85.6	86.4	87.1	86.9	87.1	87.7	88.6	87.0	85.3	84.9	85.3	87.5	88.2	88.9	88.9	86.5	83.2	83.7	86.0	88.9
11-Feb	83.5	84.8	85.1	85.7	86.9	87.1	87.5	87.6	86.2	84.7	82.6	79.1	76.4	76.1	72.6	72.0	75.3	82.0	81.6	80.4	77.5	77.0	77.4	77.7	81.1	87.6
12-Feb	76.6	77.2	76.3	78.1	81.2	84.6	86.2	87.5	87.0	81.5	75.7	70.4	66.3	61.8	67.5	68.5	69.5	69.3	68.4	65.0	64.2	61.4	59.7	56.8	72.5	87.5
13-Feb	54.2	54.2	55.2	54.4	54.8	56.8	58.1	60.4	61.8	58.4	54.7	53.4	48.2	45.7	43.8	42.4	44.0	49.4	53.9	54.2	54.5	56.4	56.7	57.3	53.5	61.8
14-Feb	58.8	60.4	61.4	64.5	66.5	68.6	71.8	73.5	75.5	68.7	63.3	55.9	50.5	47.2	47.6	46.5	50.7	56.2	63.1	67.1	71.9	69.6	67.9	84.4	63.0	84.4
15-Feb	87.3	86.6	84.9	84.1	83.4	82.5	81.9	81.3	80.2	79.3	78.6	78.1	77.8	77.6	75.5	62.9	61.5	66.1	70.6	73.3	75.5	76.1	76.4	76.1	77.4	87.3
16-Feb	78.1	78.0	76.6	75.4	74.0	73.3	73.5	73.7	74.2	74.7	73.8	71.8	65.9	57.2	53.3	55.0	56.0	60.7	65.7	67.6	68.6	70.5	73.4	74.4	69.4	78.1
17-Feb	74.3	74.8	75.3	74.8	74.3	73.2	72.5	71.7	71.2	71.0	71.1	71.5	71.9	72.2	72.3	71.8	71.5	71.2	70.8	70.1	69.9	70.0	69.4	69.1	71.9	75.3
18-Feb	68.7	68.4	68.1	68.5	68.4	68.4	68.0	68.3	69.0	68.6	67.5	66.2	65.3	65.8	66.7	66.8	67.1	68.7	69.4	69.8	69.4	68.8	68.5	68.2	68.0	69.8
19-Feb	67.3	68.5	68.0	68.4	68.4	68.3	68.2	68.2	68.2	67.8	68.0	64.2	60.3	60.5	60.9	58.6	60.8	64.5	66.9	66.1	68.2	70.5	71.4	71.3	66.4	71.4
20-Feb	72.4	74.6	75.0	74.8	74.2	73.8	73.9	72.9	71.2	67.8	59.7	56.4	55.8	56.9	57.4	57.3	58.8	62.1	65.6	68.6	71.8	73.9	75.8	75.3	67.8	75.8
21-Feb	75.9	75.9	76.6	78.2	77.6	77.5	74.7	75.4	75.9	76.3	77.1	77.1	76.8	75.5	71.0	71.1	72.0	74.4	74.9	77.0	78.0	76.9	76.0	75.2	75.7	78.2
22-Feb	74.6	74.1	73.8	73.4	73.2	72.9	74.2	74.4	74.4	74.9	75.0	74.1	70.4	68.7	68.0	68.7	69.1	70.6	71.6	72.6	73.1	73.5	73.9	74.1	72.6	75.0
23-Feb	73.3	73.9	74.4	73.4	73.2	74.3	73.6	74.3	74.1	72.1	70.2	67.6	65.3	65.6	68.9	69.0	64.4	70.2	79.3	78.2	76.1	76.8	76.7	77.3	72.6	79.3
24-Feb	76.1	77.6	77.4	77.6	78.2	78.1	76.8	77.1	78.7	79.0	78.8	77.3	68.3	61.8	57.4	56.9	59.6	65.0	72.9	73.2	71.4	71.3	71.9	74.7	72.4	79.0
25-Feb	76.1	75.6	78.7	81.0	81.3	81.5	81.7	81.9	81.3	78.3	75.4	73.2	69.5	70.7	74.6	77.1	80.5	84.8	87.8	87.9	88.7	88.4	86.6	85.4	80.3	88.7
26-Feb	84.7	83.6	83.4	83.6	84.2	84.5	84.9	84.6	84.2	83.5	82.9	80.8	79.8	78.3	76.0	76.0	76.4	75.6	75.2	75.3	74.7	75.0	75.3	74.9	79.9	84.9
27-Feb	74.1	73.4	72.7	72.1	71.6	71.1	70.4	69.6	69.4	69.3	69.0	68.9	69.2	68.7	65.5	62.9	64.4	68.6	73.8	72.1	71.7	71.0	69.5	68.2	69.9	74.1
28-Feb	67.8	68.6	69.6	71.1	70.5	67.7	68.1	66.4	69.5	70.0	67.4	65.9	63.4	60.1	58.0	58.8	61.5	65.4	68.4	69.7	71.7	71.6	73.1	75.0	67.5	75.0
	78.4	78.7	78.8	79.0	78.9	78.9	78.9	78.9	79.1	78.0	76.5	74.9	73.0	71.8	71.2	70.6	71.6	74.6	77.1	77.4	77.6	77.6	77.5	78.1	Diurnal Average	
	95.0	95.6	96.2	95.0	91.8	90.5	90.5	90.4	92.7	91.1	87.6	88.1	88.6	89.5	90.2	91.5	92.1	92.2	95.7	94.8	93.3	93.7	94.0	94.5	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Firebag - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	0	0.00	0.00
40 - 60	49	7.29	7.29
60 - 80	333	49.55	56.85
80 - 100	290	43.15	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Firebag - February 2026

Maximum Speed: 34 km/h on Feb 26 21:00

Maximum Daily Speed Average: 23.2 km/h on Feb 17

Minimum Speed Value: 1 km/h on Feb 16 05:00

Minimum Daily Speed Average: 1.8 km/h on Feb 8

Maximum Diurnal Speed Average: 3.2 km/h at hour 14

Minimum Diurnal Speed Average: 0.1 km/h at hour 2

Monthly Average Velocity: 0.9 km/h 259.7 deg

Percentiles: P_1 = 2 P_{10} = 4 Q_1 = 8 Median = 12 Q_3 = 17 P_{90} = 21 P_{99} = 31

Hours in Service: 672

Hours of Data: 633

Hours of Missing Data: 39

Percent Operational Time: 94.2

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NNE5	NE4	NNE2	S1	SSW7	S9	S10	S11	S12	S15	S14	SSE14	S17	S17	SSE17	SSE15	S19	SSE18	SSE19	SSE19	SSE18	SSE18	S19	S20	S12.4	S20
2-Feb	S19	S17	S16	S17	S17	S18	S17	S17	S15	S15	S14	SSW13	SSW12	SW13	SW13	WSW9	W9	WNW7	NW8	NW6	NNW9	NNW10	N12	NNW13	SSW7.8	S19
3-Feb	N13	N13	N13	N11	N13	N13	N8	N8	NNE7	NE5	NNW3	NW3	NW6	WNW7	SSW10	SW12	SSW13	SSW16	S19	S19	S19	S21	S19	S20	SSW2.4	S21
4-Feb	S22	S22	S23	SSW23	SW21	SW21	WSW19	W22	W19	WSW21	WSW22	W20	W20	W16	WNW17	WNW18	NW11	NNE16	N18	NNE17	NNE14	NNE13	NE11	NNE10	W8.5	S23
5-Feb	NNE10	NE13	NNE13	NNE14	NE12	NNE13	N17	N18	N17	N17	N14	N16	N14	N14	N10	NNE10	N9	NNE5	ENE7	ENE7	ENE6	ESE6	S6	SSE7	NNE9.5	N18
6-Feb	SSE8	SE9	SSE9	S11	SSE11	SSE10	SSE10	SE10	SE11	SE10	SE11	SSE12	SSE15	S16	S14	SSE13	S15	SSE16	S16	S18	S16	S14	S5	SSE7	SSE11.6	S18
7-Feb	ENE2	NNE6	N8	N8	N10	NNE12	NNE11	N10	N7	NNE5	NNE5	NNE4	N3	NNE3	NE3	ENE3	NE2	ENE2	ESE1	E2	ESE2	SE2	SSE1	SSE3	NNE4.1	NNE12
8-Feb	SSE2	SSE2	SSE3	S3	S4	SSW4	S3	SSW4	SW3	NNW3	N5	NNE5	N7	N7	N7	N6	NNW6	N5	N5	NNE4	N3	N2	NNE2	NNE2	N1.8	N7
9-Feb	NNE2	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	NNE2
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	M	S17	S17	S18	S19	S18	S17	S13	SSW15	SSW17	SW17	----	S19
11-Feb	SW18	SW15	SW17	SW17	SW13	SW15	SW15	SW15	SW18	SW17	SW17	SW17	SW19	SW16	SW17	SW16	SW16	SW14	SW14	SW14	SW14	SW12	SW12	SW9	SW15.3	SW19
12-Feb	SW14	SW12	SW14	SW13	SW11	SW10	SW12	SW14	SW16	SW16	SW17	SW17	SW17	SW18	SW19	SSW19	SSW18	SSW19	SSW21	SSW24	SW22	WSW21	WSW22	WSW24	SW16.6	SSW24
13-Feb	WSW25	WSW19	WSW19	WSW21	WSW18	WSW15	WSW18	WSW13	WSW16	WSW17	WSW20	WSW18	WSW16	WSW16	WSW16	WSW15	WSW13	WSW7	SW9	SW10	SW9	SW10	SW10	SW10	WSW14.8	WSW25
14-Feb	SW14	SSW12	SW12	SW12	SSW14	SW11	SW11	WSW9	SW9	SW11	WSW8	WSW5	NW5	W6	WSW7	W8	WSW8	NW5	N3	N5	SSW2	WSW7	W9	NNW8	WSW6.6	SSW14
15-Feb	NW6	N12	NNE9	N8	N10	NNE9	NNE8	N9	NNE10	N10	NNE9	N9	N8	N14	N16	NNW12	N13	N8	N8	N6	N6	NNE10	N7	NNW5	N9.0	N16
16-Feb	N4	NNE6	NE4	E1	SW1	WSW3	WNW3	NNW2	NW2	NE4	NE4	NE6	NE6	ENE5	NE10	NE12	NE11	NNE13	NE15	NE14	NE14	NNE11	NNE10	NNE13	NE6.5	NE15
17-Feb	NE13	NNE13	NNE16	NNE16	NNE18	NNE17	NNE19	NNE21	NNE18	NNE18	NNE20	NNE22	NNE26	NNE29	NNE28	NNE29	NNE30	NNE31	NNE29	NNE30	NNE29	NNE28	NNE31	NNE30	NNE23.2	NNE31
18-Feb	NNE31	NNE29	NNE31	NNE30	NNE30	NNE29	NNE30	NNE31	NNE29	NNE29	NNE27	NNE26	NNE22	NNE21	N18	N17	N18	N14	N11	NNW8	NNW7	NW5	NW4	WNW4	NNE20.3	NNE31
19-Feb	W3	SSW5	SW7	SW9	SW11	SSW11	SSW12	SSW11	SSW11	SSW13	SW15	SSW17	SW16	SW17	SW16	SW16	SW16	SSW11	SSW15	SSW15	SSW14	SW16	SW14	SW12	SW12.6	SW17
20-Feb	SW13	SW13	SW11	SSW10	SSW9	SSW7	SSW9	SW5	SW4	WSW6	WSW8	NW6	NW6	NNW8	N10	N10	N11	NNE10	NNE12	NNE13	NE11	NE8	NE9	NE9	NW2.2	NNE13
21-Feb	NE8	NE10	NE9	NE12	ENE14	NE11	NNE9	NE9	NE12	NE15	NE16	NE19	NE21	NNE21	NNE18	NNE18	NNE15	NNE14	NNE14	NNE13	NNE12	NNE13	NNE13	NNE10	NE13.2	NNE21
22-Feb	NE10	NE10	NE10	NE10	NE10	NE8	E10	ESE10	ESE12	ESE13	SE14	SE14	SE17	SSE18	SE17	SE18	SE17	SE16	SE19	SE20	SSE19	SSE17	SSE16	SSE15	SE11.7	SE20
23-Feb	SSE17	SSE13	SSE12	S12	S11	S9	S7	S5	S4	W3	NW7	WNW6	WNW7	NW9	NW9	NNW5	NW6	NW6	NW3	ENE1	SSW4	SSW6	SW6	SW6	SSW3.0	SSE17
24-Feb	SW3	WSW3	WSW3	WSW2	WSW3	WSW2	S2	SSW4	SW4	SSW4	SSW4	SW10	SW10	W10	WSW11	WSW12	SW9	SW8	S8	S10	SSE12	SSE14	SSE15	SSE14	SSW6.0	SSE15
25-Feb	SSE13	SSE13	SSE11	SE11	SE8	SSE8	SSE8	SSE9	SSE9	S8	SW10	SW9	M	M	SW10	WSW9	NW5	N5	N10	NNE11	NNE12	NE12	NNE10	NNE10	SE2.6	SSE13
26-Feb	NNE9	NE8	ENE7	ENE7	E8	E11	E14	E15	ENE13	ENE15	NE16	NNE14	NNE21	NNE27	N27	N27	N27	N28	N31	N33	N34	N26	N25	N25	NNE16.7	N34
27-Feb	N26	N24	N23	N21	N17	N17	N13	N9	N12	N12	N11	N8	N8	N8	N6	N8	N8	N6	NNE6	NNE4	NE7	ENE4	NE2	NE2	N10.8	N26
28-Feb	ENE1	SSW5	SSW7	SSW10	SSW11	SSW13	SSW12	SSW15	SW15	SW16	SW18	SW19	SW22	SW24	SW25	SSW24	SSW22	SSW16	SSW18	SSW19	SSW17	SW23	SW22	SW21	SSW16.2	SW25
	SW0.5	NNW0.1	SSE0.2	SSW0.8	SW0.9	WSW0.8	WSW0.8	WSW0.9	WSW1.0	WSW1.1	W1.8	W2.1	WNW2.3	WNW3.2	W2.8	W2.6	W1.7	N0.7	ENE0.7	ESE1.0	ESE0.9	SSW1.3	SW1.5	SW1.1	Diurnal Average	
	NNE31	NNE29	NNE31	NNE30	NNE30	NNE29	NNE30	NNE31	NNE29	NNE29	NNE27	NNE26	NNE26	NNE29	NNE28	NNE29	NNE30	NNE31	N31	N33	N34	NNE28	NNE31	NNE30	Diurnal Maximum	

M - Maintenance UO - Unstable Operation

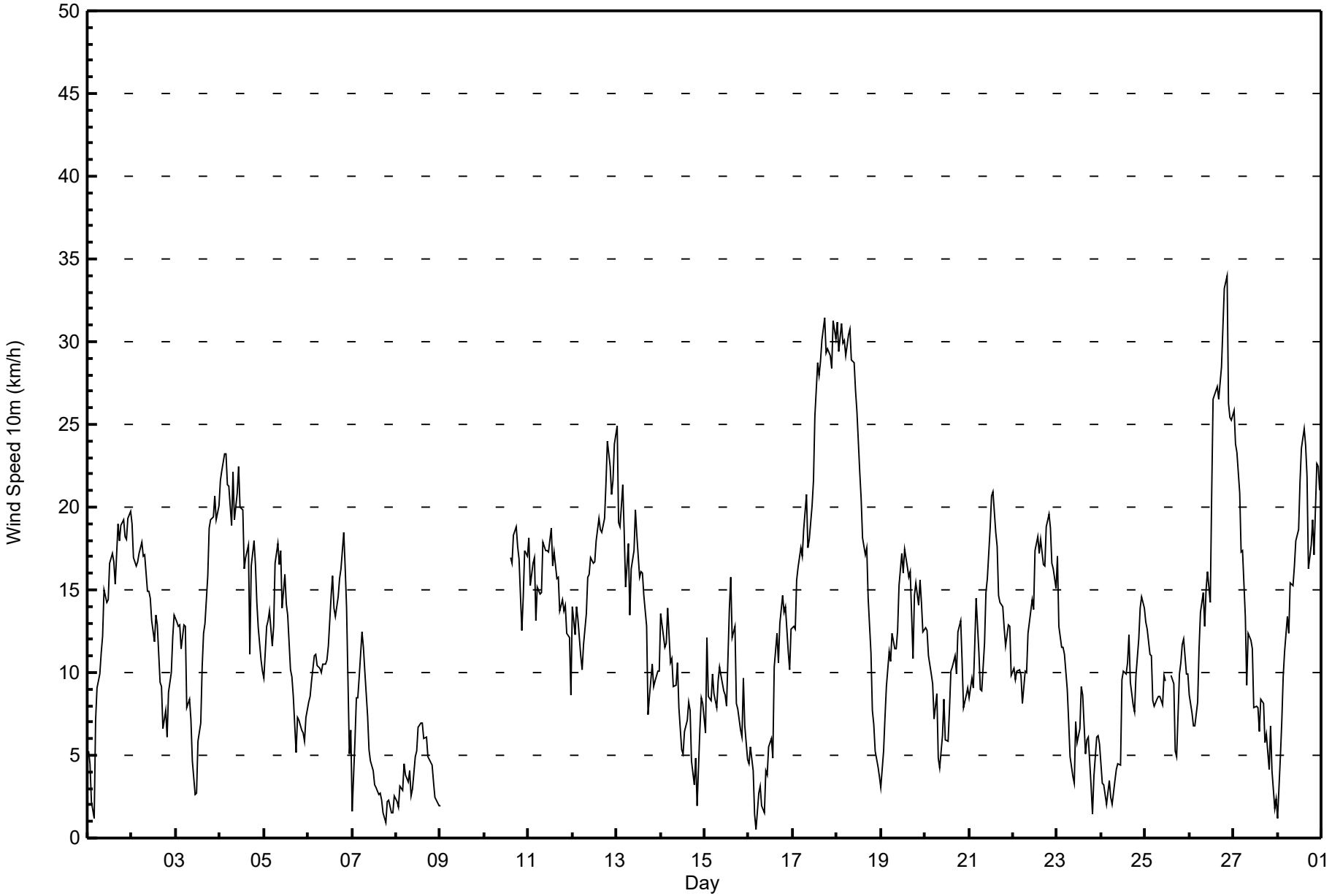
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Firebag - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	96	15.17	15.17
6 - 11	203	32.07	47.24
12 - 19	255	40.28	87.52
20 - 28	57	9.00	96.52
29 - 38	22	3.48	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 633

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Firebag - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	10	13	9	7	2	2	1	5	8	9	6	7	2	2	7	6	96
6 - 11	36	24	22	5	3	2	6	14	10	14	26	11	5	4	12	9	203
12 - 19	27	32	14	3	2	2	8	26	37	25	57	16	2	2	0	2	255
20 - 28	11	13	1	0	0	0	1	0	6	5	9	8	3	0	0	0	57
29 - 38	3	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	87	101	46	15	7	6	16	45	61	53	98	42	12	8	19	17	633

Total Number of Valid Hours: 633

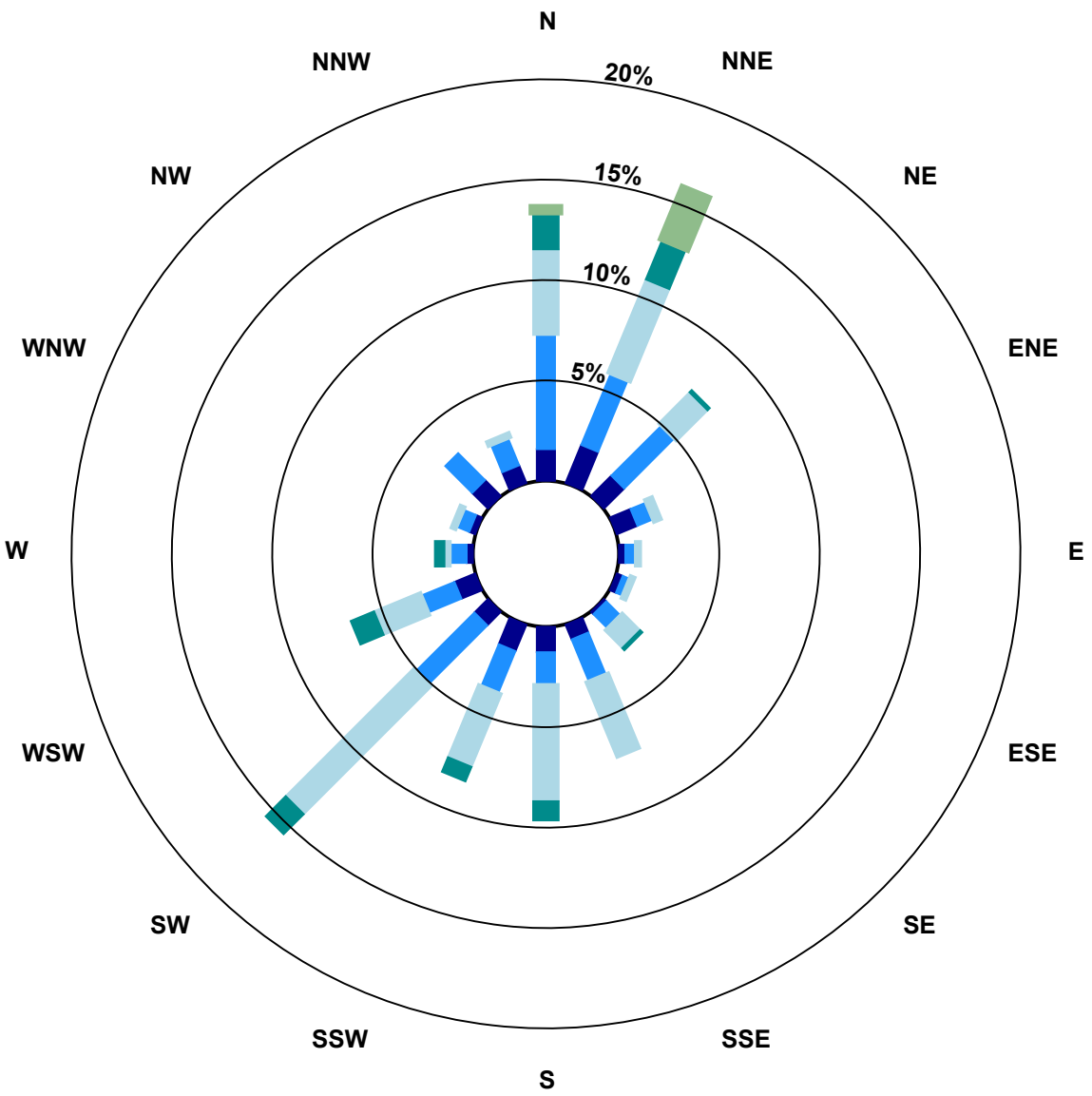
Total Number of Hours: 672

Wood Buffalo Environmental Association

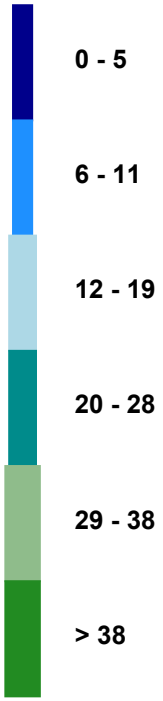
Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Firebag



Classes (km/h)



Total Number of Valid Hours: 633

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Firebag - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 8 km/h on Feb 26 21:00

Minimum Value: 0 km/h on Feb 24 03:00

Percentiles: $P_1 = 0$ $P_{10} = 1$ $Q_1 = 2$ Median = 2 $Q_3 = 3$ $P_{90} = 4$ $P_{99} = 6$

Hours in Service:	672
Hours of Data:	633
Hours of Missing Data:	39
Hours of Calibration:	0
Percent Operational Time:	94.2

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	1	2	2	1	1	2	2	2	2	2	3	3	3	3	3	4	3	3	3	3	3	3	3	4
2-Feb	3	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	2	2	1	2	2	3	3	3
3-Feb	3	3	3	3	3	4	2	2	2	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	4
4-Feb	3	4	3	3	3	3	4	5	4	4	4	4	4	4	4	4	3	4	4	4	3	3	3	2	5
5-Feb	2	2	2	3	3	3	4	4	4	4	3	4	3	3	2	2	2	1	1	1	1	1	1	1	4
6-Feb	1	1	2	2	2	2	2	2	2	2	2	2	3	2	3	2	2	3	3	3	3	3	2	3	3
7-Feb	2	1	2	2	2	3	2	2	2	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	3
8-Feb	0	0	1	1	1	1	0	1	1	1	1	1	1	1	2	1	1	1	1	1	1	0	0	0	2
9-Feb	0	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	0
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	M	3	3	3	3	3	3	2	3	3	2	3
11-Feb	2	2	2	2	2	2	2	2	3	2	2	3	3	3	3	3	2	1	2	1	2	2	2	2	3
12-Feb	3	2	2	2	2	2	2	2	2	2	2	3	2	4	3	3	2	2	3	3	4	4	4	4	4
13-Feb	5	3	3	4	4	3	3	3	3	3	4	3	3	3	3	3	2	2	1	1	1	1	1	1	5
14-Feb	2	1	2	1	1	1	2	2	2	2	1	2	2	3	2	2	2	2	2	3	2	2	2	6	6
15-Feb	4	3	3	2	3	2	2	2	2	2	2	2	3	4	3	3	3	2	2	1	2	2	2	1	4
16-Feb	2	1	2	1	1	1	1	0	1	1	1	2	1	1	4	2	3	3	2	2	2	2	2	2	4
17-Feb	3	3	4	3	3	3	4	4	4	4	4	5	6	6	6	6	6	7	6	6	6	6	6	6	7
18-Feb	6	6	6	6	7	6	6	6	6	6	6	6	5	5	4	3	4	3	3	1	1	1	1	0	7
19-Feb	1	1	2	1	1	1	1	1	2	2	3	2	3	3	3	3	2	2	2	2	2	2	2	2	3
20-Feb	1	1	1	1	1	1	1	3	2	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	3
21-Feb	1	2	1	2	3	3	3	2	2	3	3	5	4	4	4	4	4	3	3	3	2	3	2	2	5
22-Feb	2	3	2	2	1	1	2	2	2	2	3	3	3	3	4	3	3	4	4	4	3	4	3	2	4
23-Feb	3	2	2	2	2	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	2	1	1	3
24-Feb	0	1	0	1	1	0	0	1	0	0	1	3	2	3	3	3	2	2	2	1	2	2	2	2	3
25-Feb	2	2	2	1	2	1	1	1	1	2	3	3	M	M	2	2	2	2	2	2	2	3	2	3	3
26-Feb	2	1	2	1	2	2	3	2	2	3	3	4	5	5	5	5	5	6	6	7	8	6	5	5	8
27-Feb	5	5	5	5	4	4	3	2	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	5
28-Feb	1	1	1	1	1	2	2	2	3	3	3	3	3	4	4	4	4	3	2	3	3	4	3	3	4
	6	6	6	6	7	6	6	6	6	6	6	6	6	6	6	6	6	7	6	7	8	6	6	6	
	Diurnal Maximum																								

M - Maintenance UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Firebag - February 2026

Direction of Maximum Speed: 8 deg on Feb 26 21:00
Direction of Maximum Daily Speed Average: 22.7 deg on Feb 17

Direction of Minimum Speed: 218 deg on Feb 16 05:00

Direction of Minimum Daily Speed Average: 1.8 deg on Feb 8

Monthly Average Direction: 259.7 deg

Hours in Service:	672
Hours of Data:	633
Hours of Missing Data:	39
Percent Operational Time:	94.2

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	19	37	23	187	202	187	189	191	174	173	169	167	176	172	168	160	175	166	163	167	165	164	174	176	170.6
2-Feb	179	180	175	173	179	181	182	190	188	179	187	196	200	222	219	242	281	290	313	325	336	336	357	347	202.8
3-Feb	357	2	4	2	353	353	4	9	22	35	330	326	323	295	212	224	204	192	184	182	180	179	178	176	212.0
4-Feb	178	185	187	197	214	229	248	260	261	258	257	262	268	278	282	287	316	14	11	26	19	26	34	26	259.6
5-Feb	22	37	29	26	37	22	11	8	6	360	355	350	1	357	1	15	352	12	57	60	78	113	170	150	17.9
6-Feb	156	144	154	171	157	149	148	143	144	138	133	148	161	172	173	163	169	168	169	176	173	181	190	164	161.5
7-Feb	63	14	5	358	352	14	16	2	8	18	21	24	11	32	54	57	54	69	103	99	103	127	148	158	19.7
8-Feb	149	148	167	179	183	198	180	200	231	335	6	13	2	5	1	355	344	3	358	12	9	3	21	16	0.6
9-Feb	16	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	M	173	176	174	178	183	183	186	199	208	216	--
11-Feb	220	222	223	222	229	224	225	220	220	219	222	222	229	232	235	231	217	221	225	226	226	233	235	223	224.8
12-Feb	215	217	223	231	229	230	231	229	228	233	230	228	221	222	214	208	200	206	203	201	220	238	243	251	222.5
13-Feb	245	246	243	249	256	257	257	258	255	254	256	253	255	244	253	252	245	239	229	234	233	224	227	216	247.2
14-Feb	215	213	222	218	209	218	233	240	220	236	240	249	326	261	256	268	258	318	357	358	208	246	271	343	241.8
15-Feb	320	359	17	11	9	19	22	11	16	10	19	10	2	352	350	348	4	11	0	3	6	18	7	333	4.4
16-Feb	10	20	37	93	218	256	292	337	323	50	44	46	56	58	40	52	53	31	40	39	40	26	31	32	36.4
17-Feb	35	26	30	31	26	17	19	22	25	26	21	26	23	21	19	20	22	21	21	24	20	22	22	21	22.7
18-Feb	19	18	19	21	19	17	19	21	22	20	20	19	19	16	8	0	2	6	1	339	330	323	310	294	14.2
19-Feb	280	211	225	227	215	207	200	201	210	207	219	211	222	224	216	221	220	209	207	212	212	217	222	229	215.8
20-Feb	223	222	219	207	208	213	201	234	222	241	255	306	319	333	2	357	5	24	17	24	34	39	41	41	316.7
21-Feb	44	41	47	53	57	52	29	35	38	41	46	35	39	32	26	25	30	21	28	22	20	20	20	23	33.9
22-Feb	38	40	51	53	54	54	90	112	121	118	126	130	142	147	136	131	137	140	143	146	147	151	151	154	125.2
23-Feb	161	160	158	175	185	171	189	173	179	260	325	300	302	319	321	334	323	312	326	63	201	209	217	227	211.0
24-Feb	235	238	251	255	256	237	186	209	218	209	204	222	229	262	253	246	233	222	180	169	166	166	167	156	207.0
25-Feb	154	159	153	146	142	147	153	164	167	176	221	224	M	M	227	242	305	353	5	21	22	42	25	32	146.1
26-Feb	28	45	66	68	88	96	93	93	74	65	53	25	18	13	7	359	1	356	360	6	8	358	355	358	19.4
27-Feb	357	354	357	358	1	3	360	2	2	359	1	349	349	352	357	360	360	11	22	21	43	57	52	45	1.6
28-Feb	57	206	199	202	197	210	202	204	215	219	219	216	218	217	215	211	204	193	195	204	208	217	218	221	210.6
	234.0	337.8	160.1	210.3	217.8	238.4	238.8	250.1	239.1	253.9	266.8	272.4	290.2	295.3	272.3	278.5	277.2	354.8	70.2	116.8	123.5	198.2	229.5	233.4	
	Diurnal Average																								

M - Maintenance UO - Unstable Operation

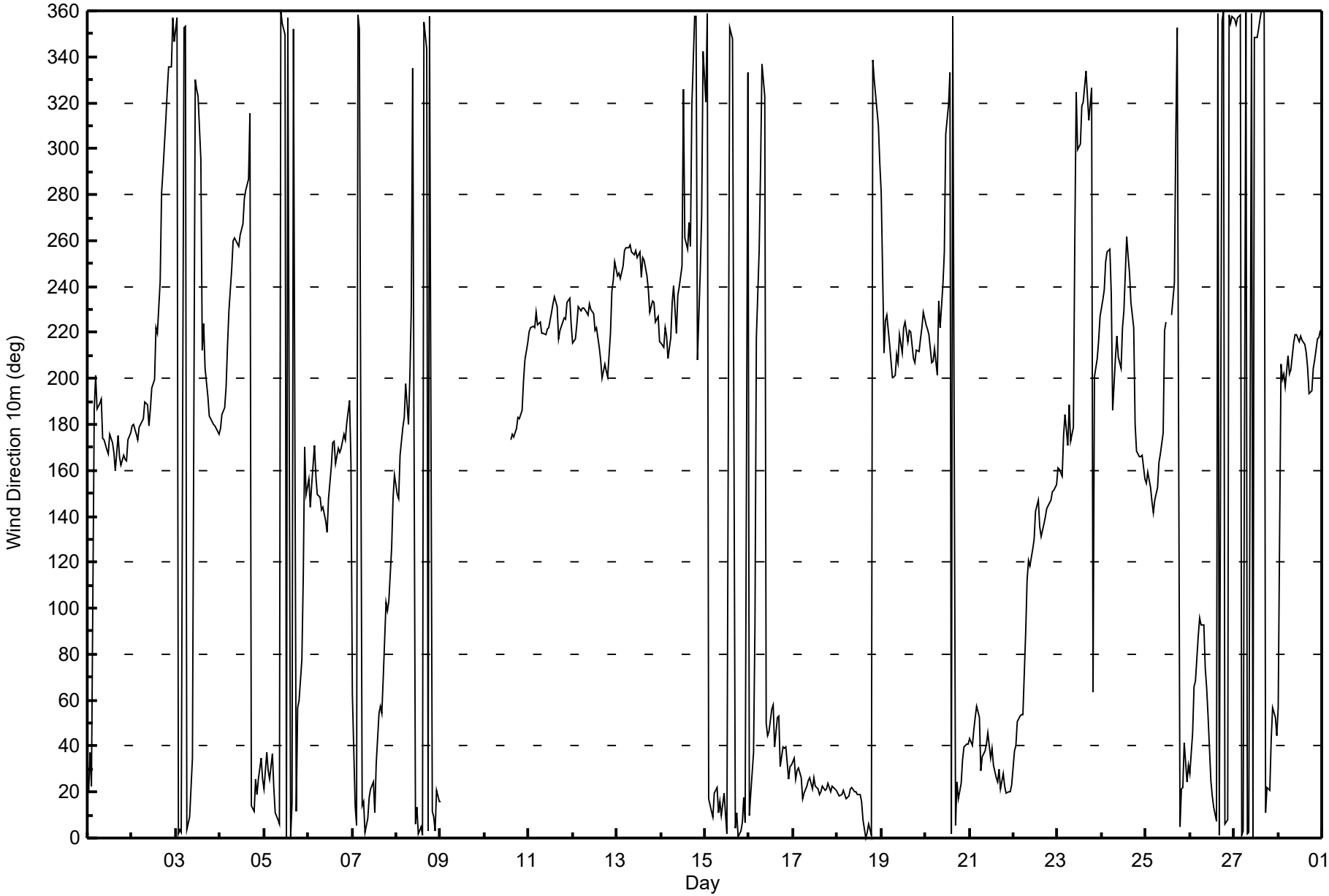
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Firebag - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Firebag - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 93 deg on Feb 1 04:00

Minimum Value: 0 deg on Feb 3 12:00

Percentiles: $P_1 = 5$ $P_{10} = 8$ $Q_1 = 9$ Median = 12 $Q_3 = 15$ $P_{90} = 19$ $P_{99} = 51$

Hours in Service:	672
Hours of Data:	633
Hours of Missing Data:	39
Hours of Calibration:	0
Percent Operational Time:	94.2

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	24	31	40	93	12	14	13	9	11	9	11	11	11	9	12	13	9	10	10	9	9	10	9	9	93
2-Feb	8	8	8	8	8	8	8	7	8	8	8	10	10	10	10	19	16	17	16	13	13	16	14	14	19
3-Feb	15	15	14	16	14	17	16	15	15	22	21	0	3	38	14	15	12	9	9	9	10	9	9	9	38
4-Feb	11	9	9	8	14	10	14	12	12	11	11	12	14	15	15	17	38	15	14	14	14	13	13	12	38
5-Feb	15	11	13	13	13	15	14	15	16	16	15	14	14	16	17	15	15	23	16	12	15	12	15	13	23
6-Feb	12	11	15	10	11	13	12	13	14	15	14	14	13	10	11	11	10	11	9	9	9	9	39	26	39
7-Feb	73	17	15	15	15	12	12	14	15	14	15	16	17	19	13	13	11	26	10	9	12	15	17	15	73
8-Feb	17	17	11	25	10	13	9	17	14	36	16	17	15	14	16	17	15	15	14	15	13	17	17	15	36
9-Feb	14	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	14
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	M	10	10	8	9	8	10	11	8	7	7	11
11-Feb	7	7	7	7	10	7	7	7	7	7	8	8	11	11	12	12	8	7	8	7	7	8	8	11	12
12-Feb	8	9	7	9	11	8	8	7	8	8	9	10	9	11	9	9	8	7	6	7	11	11	10	11	11
13-Feb	10	11	10	10	13	12	12	14	10	10	12	11	14	14	12	12	10	10	6	6	7	6	6	10	14
14-Feb	6	5	8	9	4	6	9	11	11	14	18	33	36	29	22	20	11	38	51	23	73	8	20	25	73
15-Feb	32	15	18	16	15	14	16	15	13	17	18	16	19	18	15	18	14	15	18	11	16	11	14	17	32
16-Feb	31	9	21	50	89	58	14	34	46	15	24	17	13	16	16	13	16	11	9	9	9	10	11	11	89
17-Feb	11	12	12	11	10	12	12	11	11	12	12	12	12	13	12	12	13	12	12	12	12	12	12	14	14
18-Feb	12	12	13	12	12	14	12	12	11	13	13	12	14	14	16	14	14	15	15	10	9	10	7	13	16
19-Feb	22	13	18	11	6	8	5	5	10	9	10	12	15	13	10	11	9	9	7	8	8	7	7	8	22
20-Feb	7	6	7	4	8	7	8	32	32	18	15	36	33	24	17	17	14	10	11	12	11	11	9	7	36
21-Feb	9	9	8	11	10	19	12	12	11	11	12	14	13	13	14	14	14	13	12	16	12	11	11	13	19
22-Feb	12	12	8	8	7	7	15	9	10	10	12	16	13	13	16	12	12	13	11	11	10	11	10	10	16
23-Feb	9	10	10	12	15	14	16	23	23	43	22	32	37	22	16	22	16	14	14	57	15	20	5	5	57
24-Feb	7	11	10	18	8	21	10	8	9	10	14	15	26	22	19	17	20	9	12	9	7	9	9	9	26
25-Feb	9	8	11	11	14	11	9	8	8	9	16	15	M	M	13	20	38	12	13	12	11	14	17	15	38
26-Feb	12	13	10	9	12	10	10	10	12	9	13	12	13	14	15	15	17	15	17	18	17	16	14	16	18
27-Feb	15	15	16	15	15	14	13	12	13	14	15	19	21	21	37	21	15	16	8	14	9	11	16	8	37
28-Feb	50	6	5	3	6	8	9	7	11	10	11	12	11	11	10	11	10	10	8	8	9	8	8	8	50
	73	31	40	93	89	58	16	34	46	43	24	36	37	38	37	22	38	38	51	57	73	20	39	26	
	Diurnal Maximum																								

M - Maintenance UO - Unstable Operation

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS20
MACKAY RIVER
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - MACKAY RIVER (AMS20)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	641	31	31	100	31.2	0	3.1	0
H2S (ppb) Average	639	33	33	100	1.1	0	0.4	0
THC (ppm) Average	641	31	31	100	3.1	-	2.6	-
NO2 (ppb) Average	639	33	33	100	34.4	0	10.1	-
NO (ppb) Average	639	33	33	100	18	-	2.5	-
NOX (ppb) Average	639	33	33	100	42.9	-	11.4	-
Temperature 2 m (C) Average	672	0	0	100	9.6	-	2.4	-
Relative Humidity (%) Average	672	0	0	100	97.5	-	94.1	-
Wind Speed 10 m (km/h) Average	632	0	40	94.05	22	-	16	-
Wind Direction 10 m (deg) Average	632	0	40	94.05	-	-	-	-
Precipitation (mm) Total	672	0	0	100	1.5	-	5.3	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - MACKAY RIVER (AMS20)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	641	0.88	2	-	0	0	0.1	0.2	0.8	2.5	31.2
H2S (ppb) Average	639	0.15	0.1	-	0	0	0.1	0.1	0.2	0.3	1.1
THC (ppm) Average	641	2.39	0.1	-	2.2	2.3	2.3	2.4	2.4	2.5	3.1
NO2 (ppb) Average	639	4.63	5.3	-	0.2	0.6	1	2.5	6	12	34.4
NO (ppb) Average	639	0.62	1.6	-	0	0	0	0	0.4	1.8	18
NOX (ppb) Average	639	5.24	6.1	-	0.2	0.6	1.1	2.9	6.8	13	42.9
Temperature 2 m (C) Average	672	-14.68	10.3	-	-39.8	-29.5	-21.6	-13.8	-7.2	-1.1	9.6
Relative Humidity (%) Average	672	76.84	12.5	-	34.4	59.3	68.9	78.4	86.9	90.2	97.5
Wind Speed 10 m (km/h) Average	632	6.5	4	-	0	2	4	6	8	11	22
Wind Direction 10 m (deg) Average	632	-	-	-	-	-	-	-	-	-	-
Precipitation (mm) Total	672	-	-	30.49	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION -MACKAY RIVER (AMS20)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
Wind Speed, Wind Direction	05 Feb 2026 02:00	06 Feb 2026 12:00	35	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	06 Feb 2026 13:00	06 Feb 2026 13:00	1	Maintenance - troubleshooting sensor
Wind Speed, Wind Direction	06 Feb 2026 18:00	06 Feb 2026 18:00	1	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	10 Feb 2026 09:00	10 Feb 2026 10:00	2	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	20 Feb 2026 09:00	20 Feb 2026 09:00	1	Flat line in sensor output signal - Sensor frozen

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Mackay River - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 31.2 ppb on Feb 20 18:00

Maximum Daily Average: 3.1 ppb on Feb 5

Minimum Value: 0.0 ppb on Feb 2 19:00

Minimum Daily Average: 0.0 ppb on Feb 11

Maximum Diurnal Average: 1.7 ppb at hour 18

Minimum Diurnal Average: 0.6 ppb at hour 7

Monthly Average: 0.88 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.2 Q_3 = 0.8 P_{90} = 2.5 P_{99} = 7.4

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	Z	1.0	0.6	0.9	2.2	2.3	1.9	1.0	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.7	2.3
2-Feb	0.3	0.4	Z	0.5	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.0	0.0	0.5	0.2	0.1	0.0	0.0	0.2	0.5
3-Feb	0.2	0.2	0.1	Z	0.2	0.3	0.2	0.8	7.2	4.6	2.4	1.5	1.2	0.4	0.3	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.9	7.2
4-Feb	0.1	0.2	0.4	0.2	Z	0.1	0.1	0.2	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	4.1	7.5	0.7	7.5
5-Feb	4.8	10.7	21.3	4.5	5.2	Z	0.1	0.0	0.0	0.0	0.2	0.1	1.2	2.6	3.1	2.4	1.2	1.6	1.1	1.2	0.9	1.1	3.7	4.2	3.1	21.3
6-Feb	Z	0.7	0.6	0.4	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.4	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.7
7-Feb	0.1	Z	0.3	0.4	0.2	0.2	0.3	1.3	0.5	0.2	0.1	0.1	0.1	0.1	0.2	10.3	7.1	2.7	1.6	2.5	3.1	2.7	3.1	2.2	1.7	10.3
8-Feb	1.7	1.1	Z	0.5	0.4	0.4	0.4	1.1	1.7	1.6	0.4	0.5	0.4	0.3	0.6	0.9	0.6	0.5	2.0	3.2	3.4	0.8	1.5	0.4	1.1	3.4
9-Feb	0.2	0.1	0.1	Z	0.3	0.1	0.3	0.1	2.2	1.7	0.7	1.5	2.3	3.0	2.8	5.8	5.1	3.9	3.1	1.7	1.2	1.1	1.8	1.9	1.8	5.8
10-Feb	1.3	1.7	1.7	1.4	Z	1.5	1.2	0.7	0.6	0.4	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.7
11-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-Feb	Z	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
13-Feb	0.0	Z	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.1
14-Feb	0.1	0.0	Z	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
15-Feb	0.4	0.5	0.1	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.1	0.5	1.2	1.3	2.0	0.6	1.5	0.4	0.2	0.2	0.2	0.2	0.4	2.0
16-Feb	0.1	0.1	0.0	0.0	Z	0.0	0.0	0.0	0.0	1.2	2.9	2.6	3.5	3.1	3.2	2.0	3.6	3.0	0.5	0.2	0.4	2.0	1.0	0.5	1.3	3.6
17-Feb	0.4	0.5	0.2	0.1	0.1	Z	0.5	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.5
18-Feb	Z	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
19-Feb	0.0	Z	0.1	0.8	1.5	1.3	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.2	1.5
20-Feb	0.1	0.1	Z	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.2	1.8	2.6	1.3	0.7	5.0	5.2	31.2	8.5	2.1	0.8	1.2	1.2	1.5	2.8	31.2
21-Feb	1.6	1.4	1.0	Z	1.2	1.3	2.4	5.2	5.0	4.0	3.1	6.5	5.4	6.5	9.5	0.9	0.3	0.3	0.3	1.2	3.2	2.5	4.1	2.9	3.0	9.5
22-Feb	2.7	3.2	3.3	2.2	Z	2.5	3.6	2.2	1.6	2.3	3.5	3.0	1.1	0.9	1.0	0.9	0.6	0.6	0.5	0.3	0.3	0.2	0.3	0.2	1.6	3.6
23-Feb	0.3	0.3	0.3	0.2	0.3	Z	0.3	0.3	0.4	0.4	0.3	1.2	1.5	1.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.4	1.5
24-Feb	Z	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.0	0.2	0.1	0.2	0.3	0.2	0.3
25-Feb	0.4	Z	0.4	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.4	2.8	2.4	2.6	3.6	0.7	3.6
26-Feb	6.1	4.2	Z	5.6	2.2	4.1	2.4	1.1	1.2	2.2	1.6	1.7	0.5	0.4	0.7	0.7	0.4	0.6	2.2	1.4	0.1	0.2	0.1	0.1	1.7	6.1
27-Feb	0.1	0.1	0.2	Z	0.1	0.0	0.0	0.0	0.1	0.1	0.3	1.2	2.1	0.6	0.5	0.3	0.2	0.1	0.2	0.5	1.0	0.9	0.9	0.3	0.4	2.1
28-Feb	0.2	0.1	0.0	0.1	Z	0.4	0.4	0.6	0.8	0.6	0.2	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.2	0.3	0.2	0.8
	0.9	1.1	1.4	0.8	0.6	0.6	0.6	0.6	0.9	0.8	0.7	0.9	0.9	0.8	0.9	1.2	1.0	1.7	0.8	0.6	0.7	0.6	0.9	1.0	Diurnal Average	
	6.1	10.7	21.3	5.6	5.2	4.1	3.6	5.2	7.2	4.6	3.5	6.5	5.4	6.5	9.5	10.3	7.1	31.2	8.5	3.2	3.4	2.7	4.1	7.5	Diurnal Maximum	

Z - zerospan C - Calibration

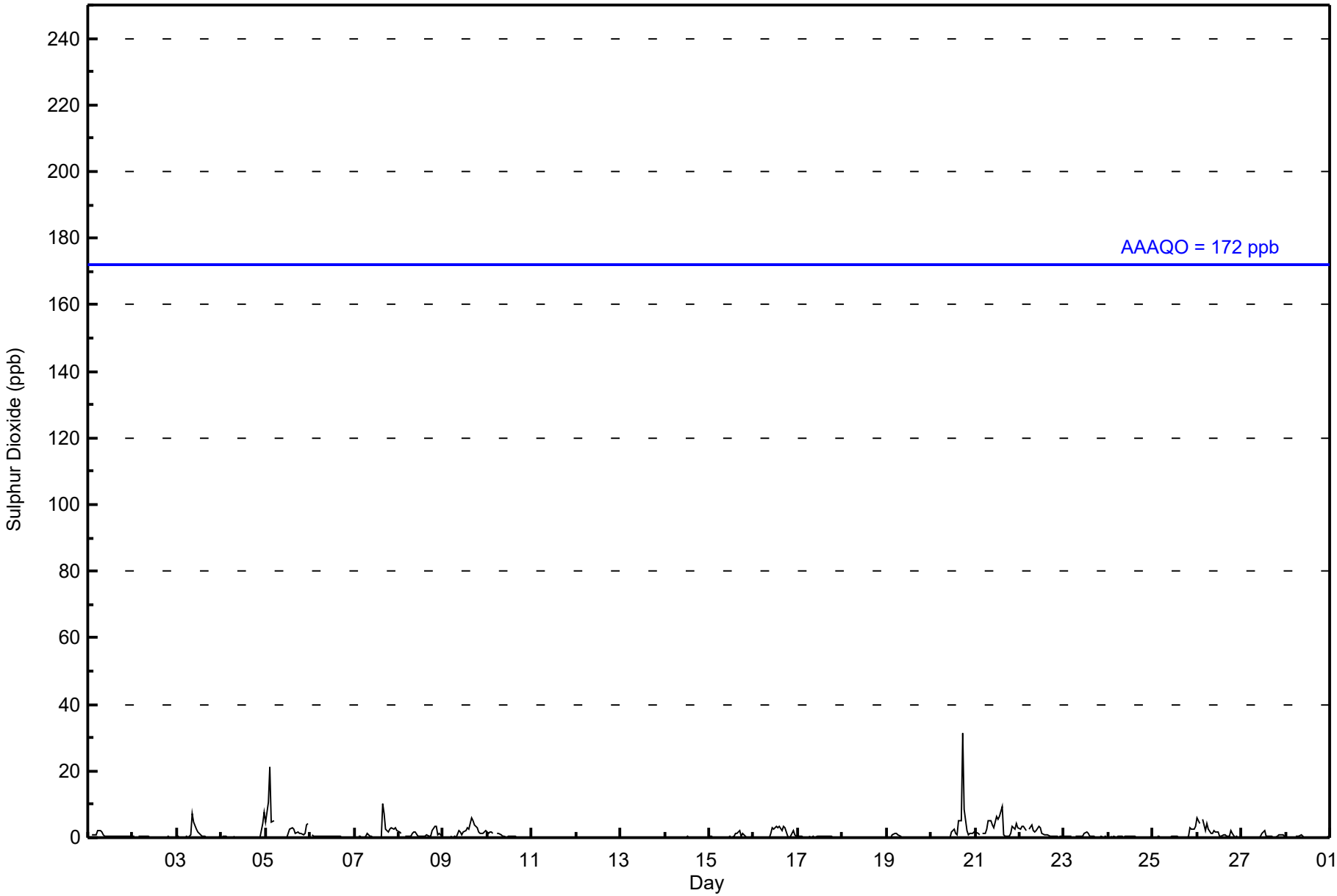
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Mackay River - February 2026



Sulphur Dioxide (SO_2) - ppb
Mackay River - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	638	99.53	99.53
11 - 20	1	0.16	99.69
21 - 60	2	0.31	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Mackay River - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	23	107	71	10	12	51	36	28	62	47	26	50	27	16	16	20	602
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 60	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	23	108	71	10	12	51	36	28	62	47	26	50	27	16	16	20	603

Total Number of Valid Hours: 603

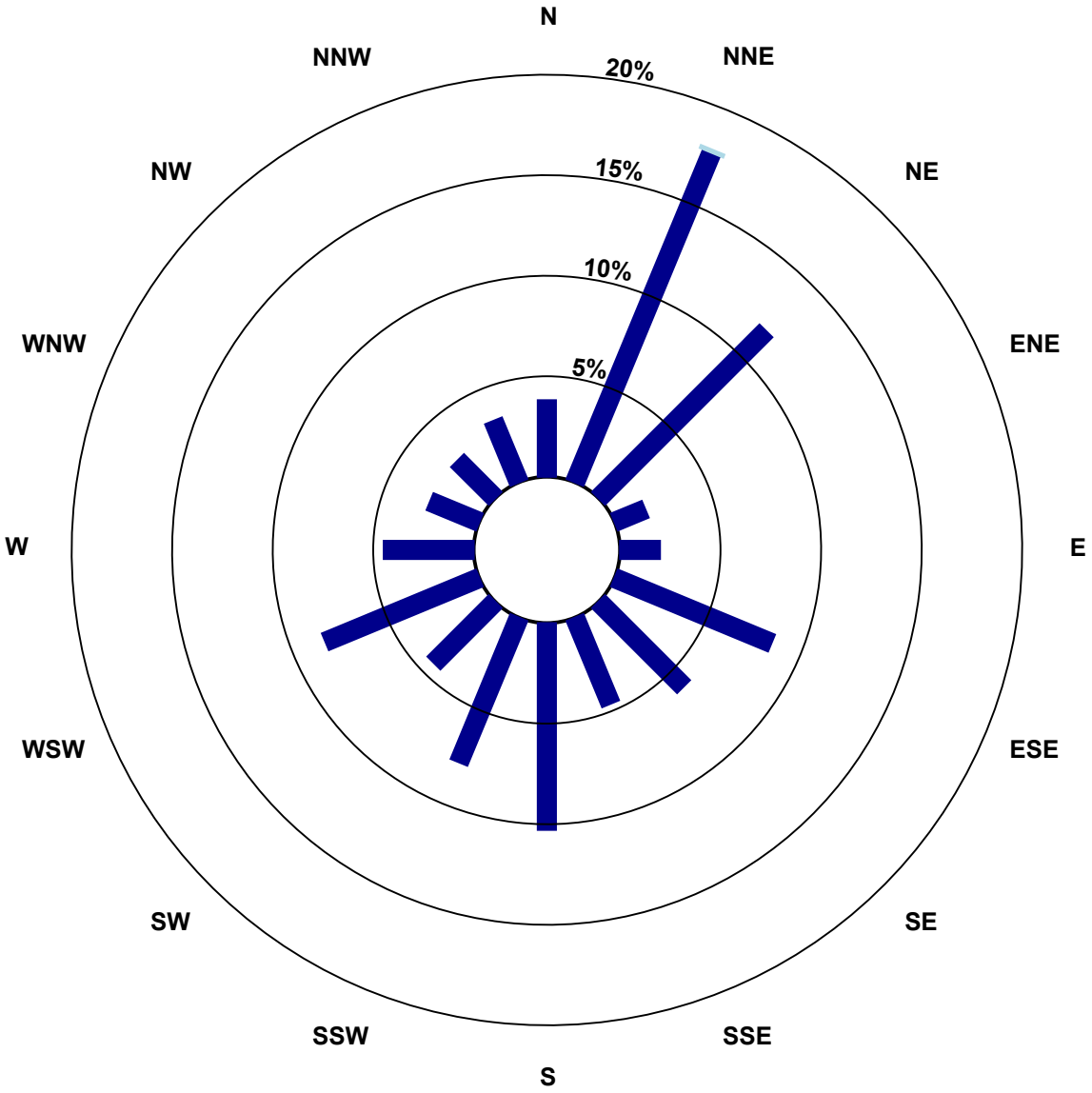
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Mackay River



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

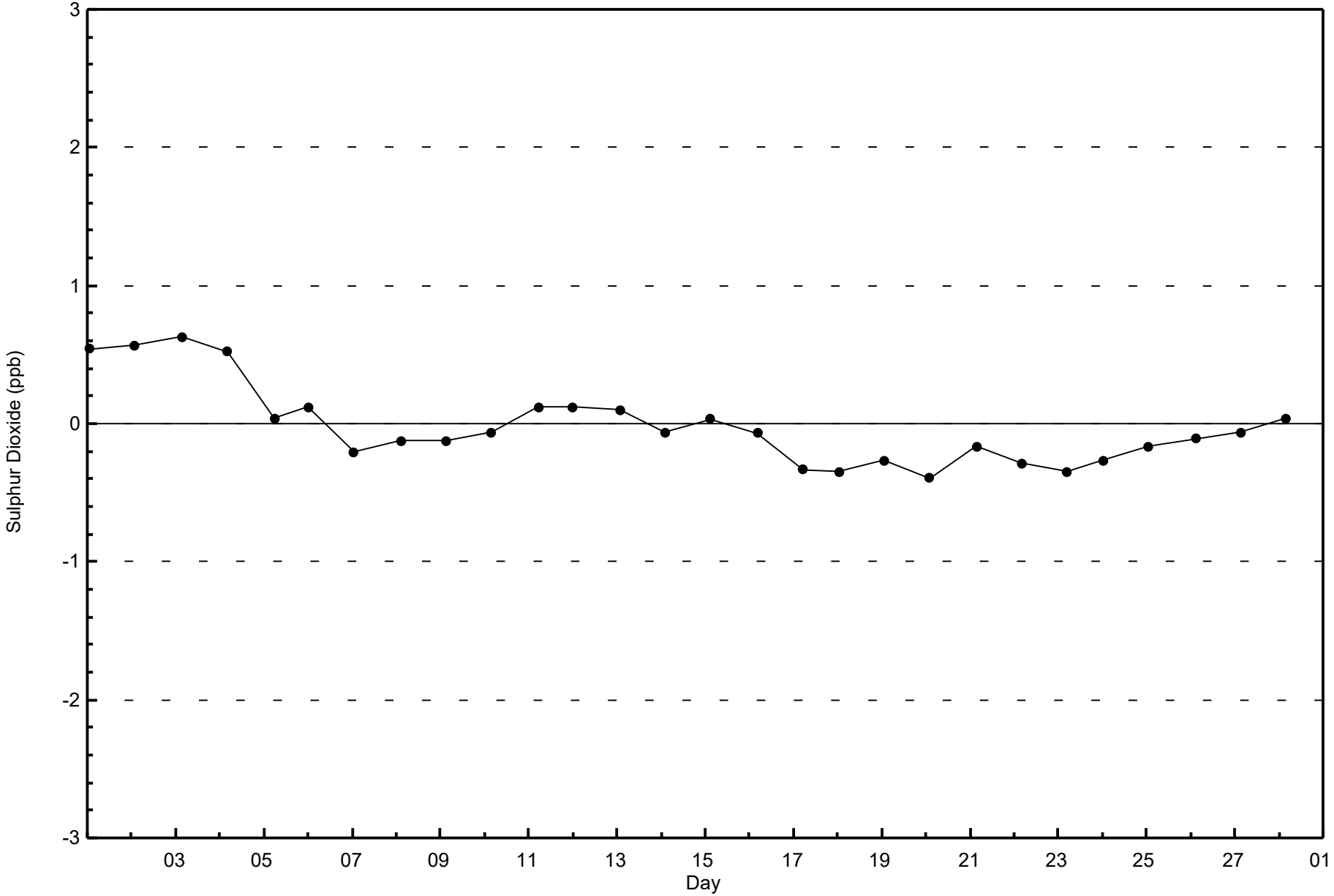
Total Number of Valid Hours: 603

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Mackay River - February 2026

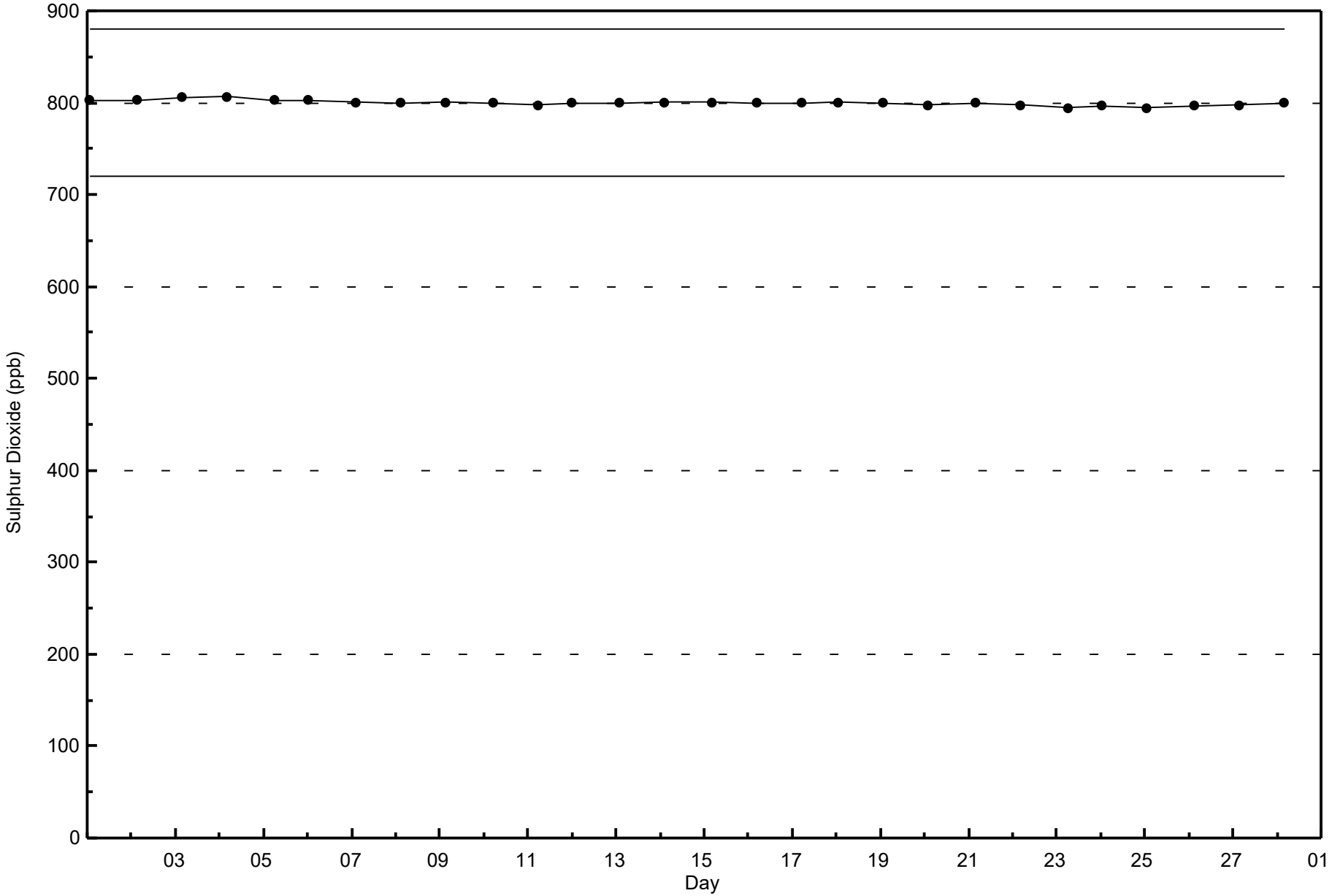


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Mackay River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Mackay River - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 1.1 ppb on Feb 7 22:00

Maximum Daily Average: 0.4 ppb on Feb 7

Minimum Value: 0.0 ppb on Feb 3 15:00

Minimum Daily Average: 0.0 ppb on Feb 19

Maximum Diurnal Average: 0.2 ppb at hour 2

Minimum Diurnal Average: 0.1 ppb at hour 14

Monthly Average: 0.15 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.1 Q_3 = 0.2 P_{90} = 0.3 P_{99} = 0.7

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	0.2	Z	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.2
2-Feb	0.0	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2
3-Feb	0.3	0.3	0.3	0.3	Z	0.4	0.5	0.6	C	C	C	C	C	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6
4-Feb	0.0	0.0	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.2	0.2	0.1	0.2
5-Feb	Z	0.4	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.4
6-Feb	0.2	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.1	0.3
7-Feb	0.3	0.3	Z	0.2	0.2	0.2	0.6	0.7	0.4	0.4	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.2	0.3	0.6	1.0	1.1	0.9	0.9	0.4	1.1
8-Feb	0.7	0.8	0.8	Z	0.4	0.4	0.4	0.4	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.5	0.5	0.6	0.4	0.4	0.8
9-Feb	0.2	0.2	0.1	0.2	Z	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.5
10-Feb	0.3	0.3	0.3	0.3	0.2	Z	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3
11-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1
12-Feb	0.1	Z	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1
13-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1
14-Feb	0.1	0.0	0.1	Z	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
15-Feb	0.1	0.2	0.2	0.7	Z	0.4	0.4	0.5	0.4	0.3	0.3	0.2	0.3	0.3	0.4	0.4	0.3	0.6	0.7	0.5	0.5	0.4	0.3	0.2	0.4	0.7
16-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.3	0.4	0.4	0.3	0.4	0.7	0.4	0.4	0.4	0.2	0.3	0.2	0.1	0.2	0.2	0.3	0.7
17-Feb	Z	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.2
18-Feb	0.1	Z	0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
19-Feb	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
20-Feb	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.5	0.6	0.5	0.2	0.2	0.2	0.2	0.2	0.6
21-Feb	0.1	0.2	0.2	0.2	Z	0.2	0.1	0.2	0.3	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.4
22-Feb	0.2	0.3	0.2	0.2	0.2	Z	0.2	0.2	0.3	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
23-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
24-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1
25-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.6	0.4	0.3	0.2	0.6
26-Feb	0.3	0.2	0.2	Z	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.3
27-Feb	0.0	0.0	0.0	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
28-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	Diurnal Average	
	0.7	0.8	0.8	0.7	0.4	0.4	0.6	0.7	0.5	0.4	0.4	0.4	0.4	0.4	0.7	0.5	0.5	0.6	0.7	0.6	1.0	1.1	0.9	0.9	Diurnal Maximum	

Z - zerospan C - Calibration

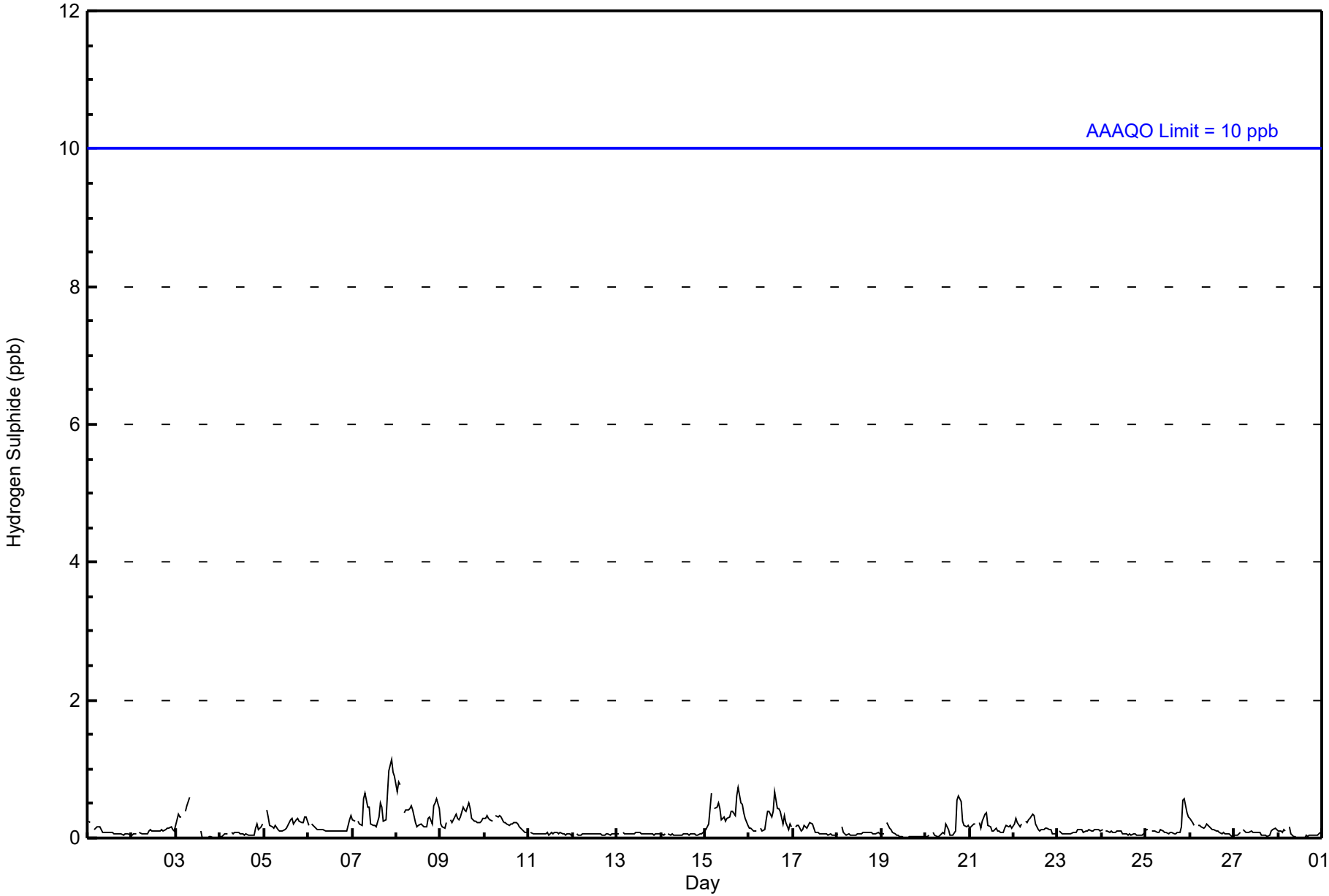
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Mackay River - February 2026



Hydrogen Sulphide (H_2S) - ppb
Mackay River - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	639	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Mackay River - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	20	109	71	10	12	47	37	27	61	49	27	50	27	16	16	21	600
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	20	109	71	10	12	47	37	27	61	49	27	50	27	16	16	21	600

Total Number of Valid Hours: 600

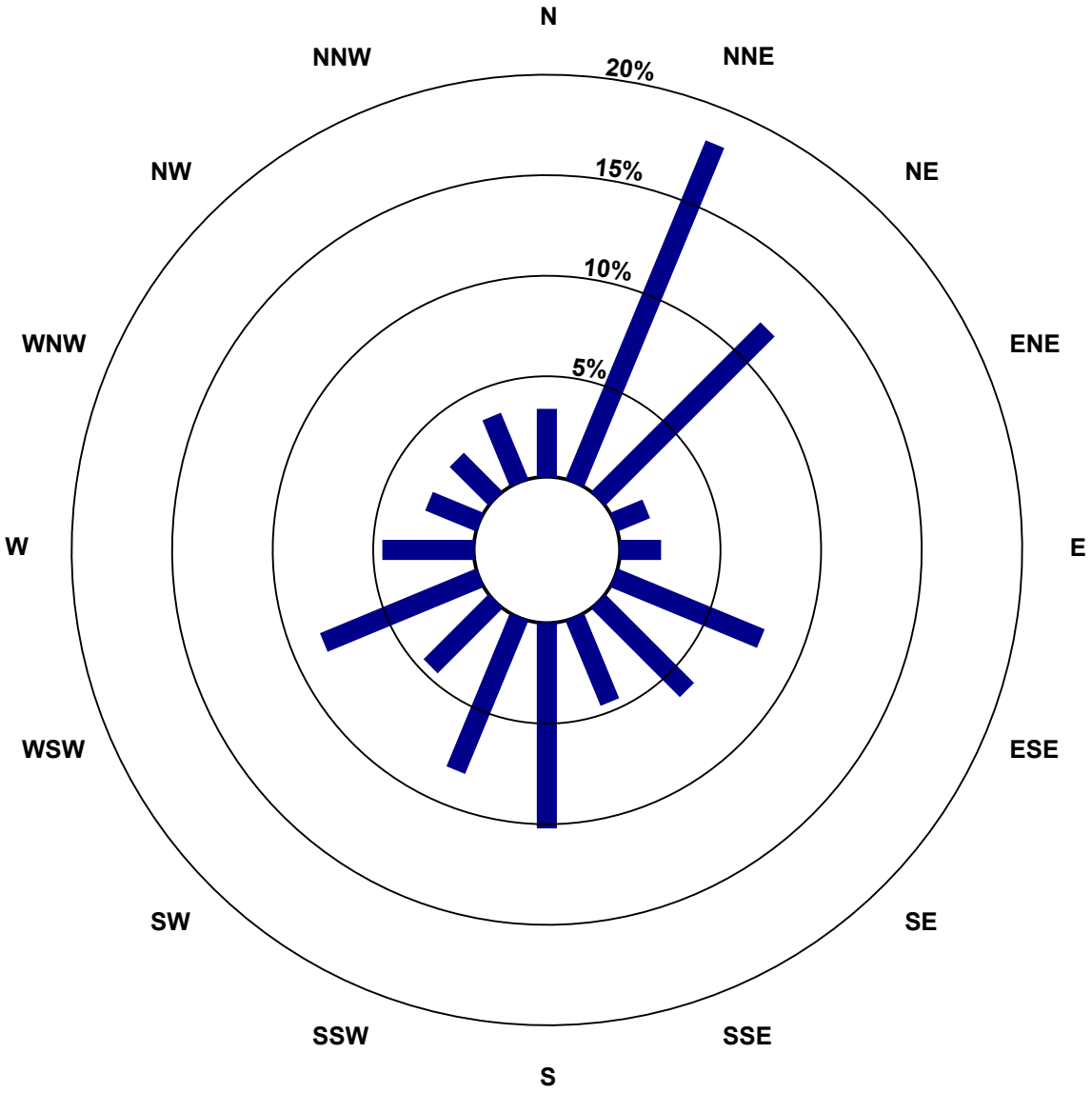
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Mackay River



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

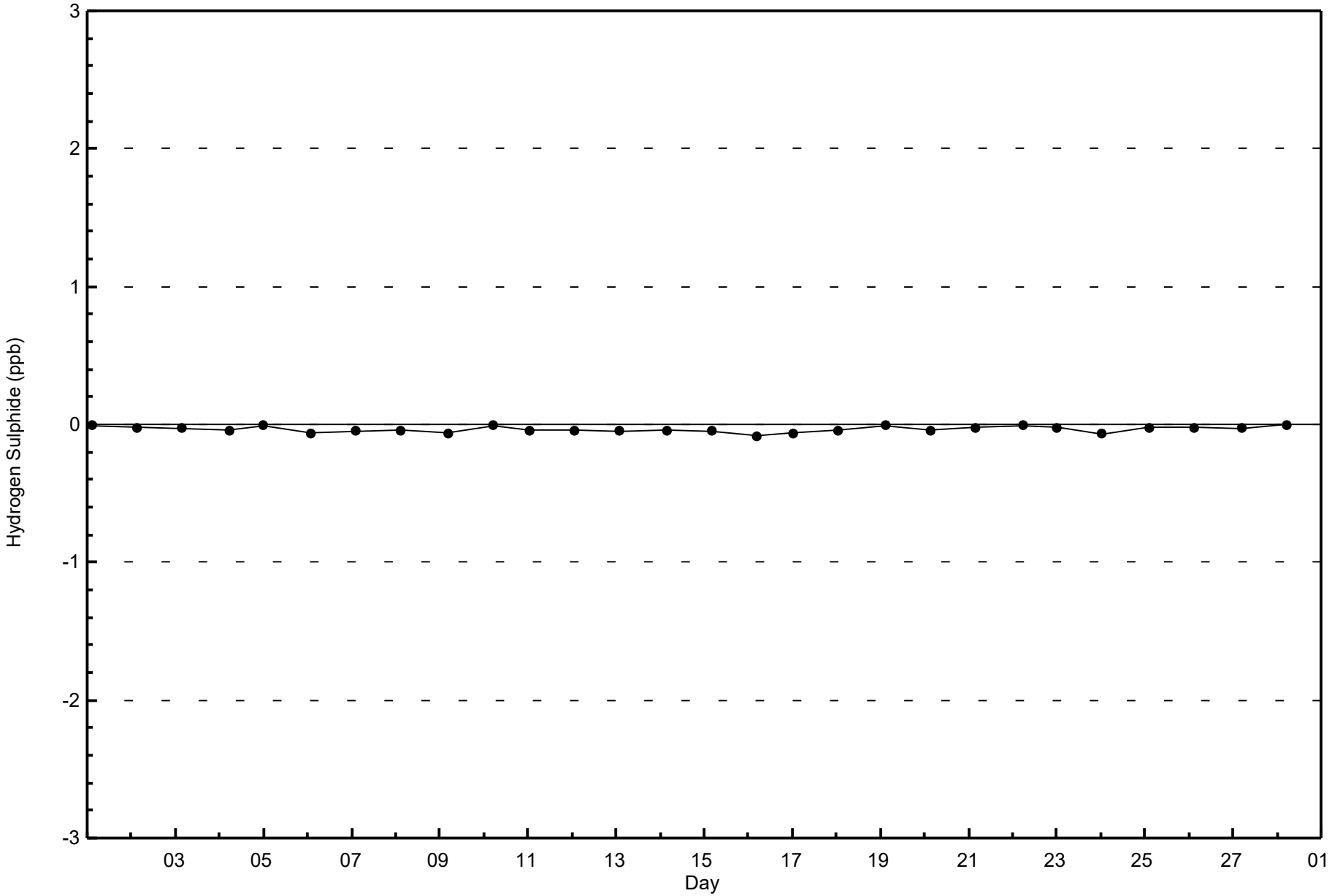
Total Number of Valid Hours: 600

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Mackay River - February 2026

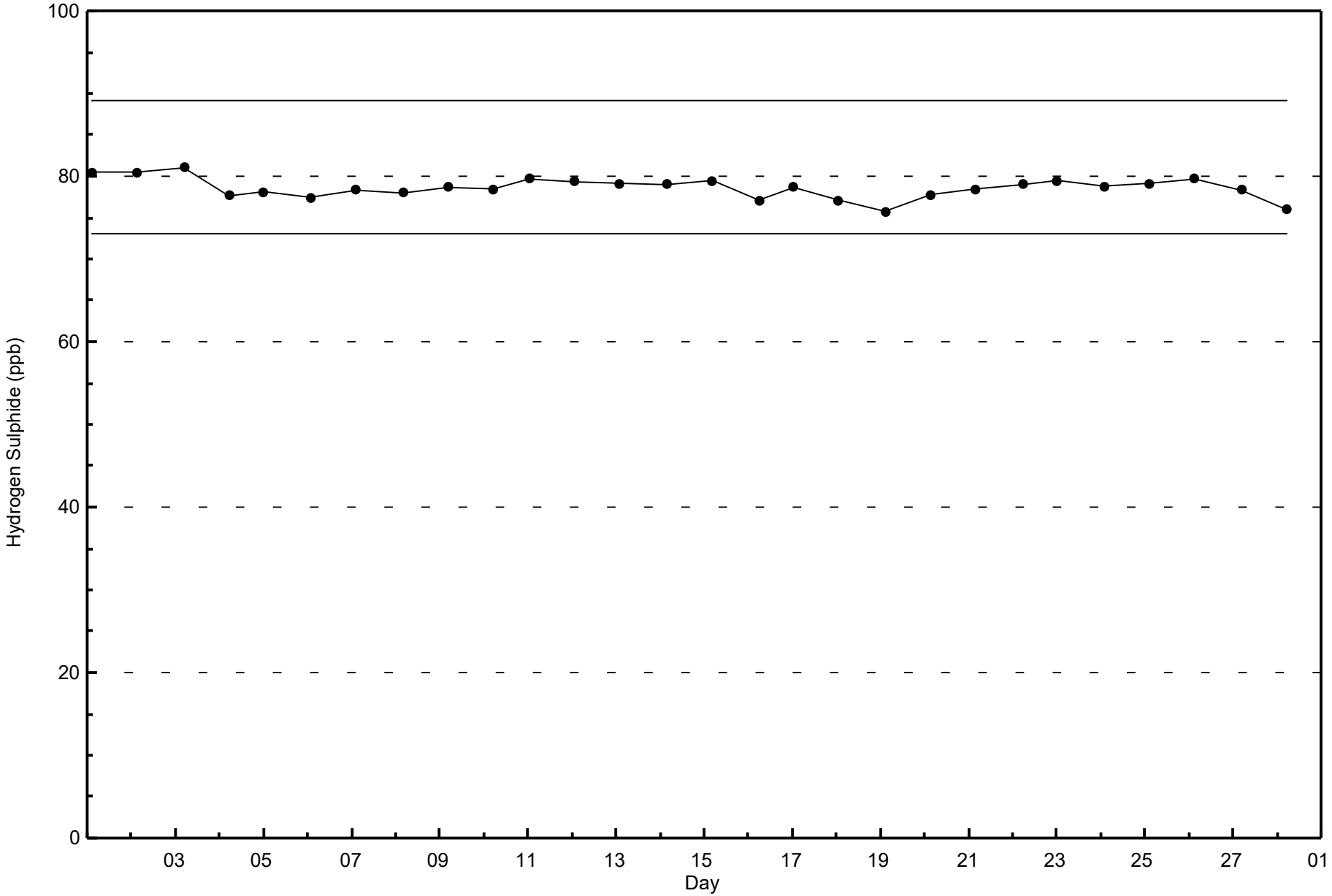


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Mackay River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Mackay River - February 2026

Maximum Value: 3.1 ppm on Feb 7 07:00

Maximum Daily Average: 2.6 ppm on Feb 7

Minimum Value: 2.2 ppm on Feb 4 17:00

Minimum Daily Average: 2.3 ppm on Feb 13

Maximum Diurnal Average: 2.4 ppm at hour 7

Minimum Diurnal Average: 2.4 ppm at hour 14

Monthly Average: 2.39 ppm

Percentiles: P_1 = 2.2 P_{10} = 2.3 Q_1 = 2.3 Median = 2.4 Q_3 = 2.4 P_{90} = 2.5 P_{99} = 2.8

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.4	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.4
2-Feb	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.4
3-Feb	2.8	2.9	2.8	Z	2.8	2.9	2.8	2.7	2.7	2.5	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.5	2.9
4-Feb	2.3	2.3	2.3	2.3	Z	2.2	2.2	2.2	C	C	C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.5	2.4	2.4	2.4	2.3	2.5
5-Feb	2.4	2.4	2.4	2.3	2.4	Z	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
6-Feb	Z	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.8	2.9	2.4	2.9
7-Feb	2.7	Z	2.6	2.6	2.5	2.5	3.1	2.8	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.5	2.5	2.7	2.7	2.6	2.6	2.6	3.1
8-Feb	2.6	2.6	Z	2.6	2.8	2.8	2.7	2.6	2.6	2.5	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.6	2.5	2.3	2.4	2.5	2.5	2.4	2.5	2.8
9-Feb	2.3	2.3	2.3	Z	2.5	2.5	2.5	2.5	2.5	2.4	2.5	2.5	2.5	2.5	2.5	2.7	2.6	2.5	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.7
10-Feb	2.5	2.5	2.5	2.5	Z	2.5	2.5	2.5	2.6	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.6
11-Feb	2.3	2.3	2.3	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
12-Feb	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3	2.3
13-Feb	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
14-Feb	2.3	2.3	Z	2.3	2.3	2.4	2.3	2.4	2.4	2.4	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
15-Feb	2.3	2.3	2.4	Z	2.6	2.5	2.6	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.5	2.6
16-Feb	2.4	2.4	2.4	2.4	Z	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.5	2.4	2.7	2.6	2.6	2.6	2.5	2.5	2.4	2.4	2.4	2.4	2.5	2.7
17-Feb	2.5	2.4	2.4	2.4	2.4	Z	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.5
18-Feb	Z	2.3	2.3	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
19-Feb	2.4	Z	2.4	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
20-Feb	2.3	2.4	Z	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.4	2.3	2.3	2.3	2.3	2.5	2.6	2.7	2.5	2.5	2.5	2.5	2.4	2.7
21-Feb	2.5	2.6	2.6	Z	2.5	2.5	2.4	2.5	2.6	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.5	2.6
22-Feb	2.5	2.5	2.4	2.4	Z	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.5
23-Feb	2.3	2.3	2.4	2.3	2.3	Z	2.3	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
24-Feb	Z	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
25-Feb	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.8	3.0	2.7	2.6	2.4	3.0
26-Feb	2.5	2.5	Z	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.3	2.4	2.3	2.3	2.4	2.5
27-Feb	2.4	2.3	2.4	Z	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5
28-Feb	2.4	2.4	2.4	2.5	Z	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5
	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	Diurnal Average	
	2.8	2.9	2.8	2.6	2.8	2.9	3.1	2.8	2.7	2.5	2.5	2.6	2.5	2.5	2.7	2.7	2.6	2.6	2.6	2.7	2.8	3.0	2.8	2.9	Diurnal Maximum	

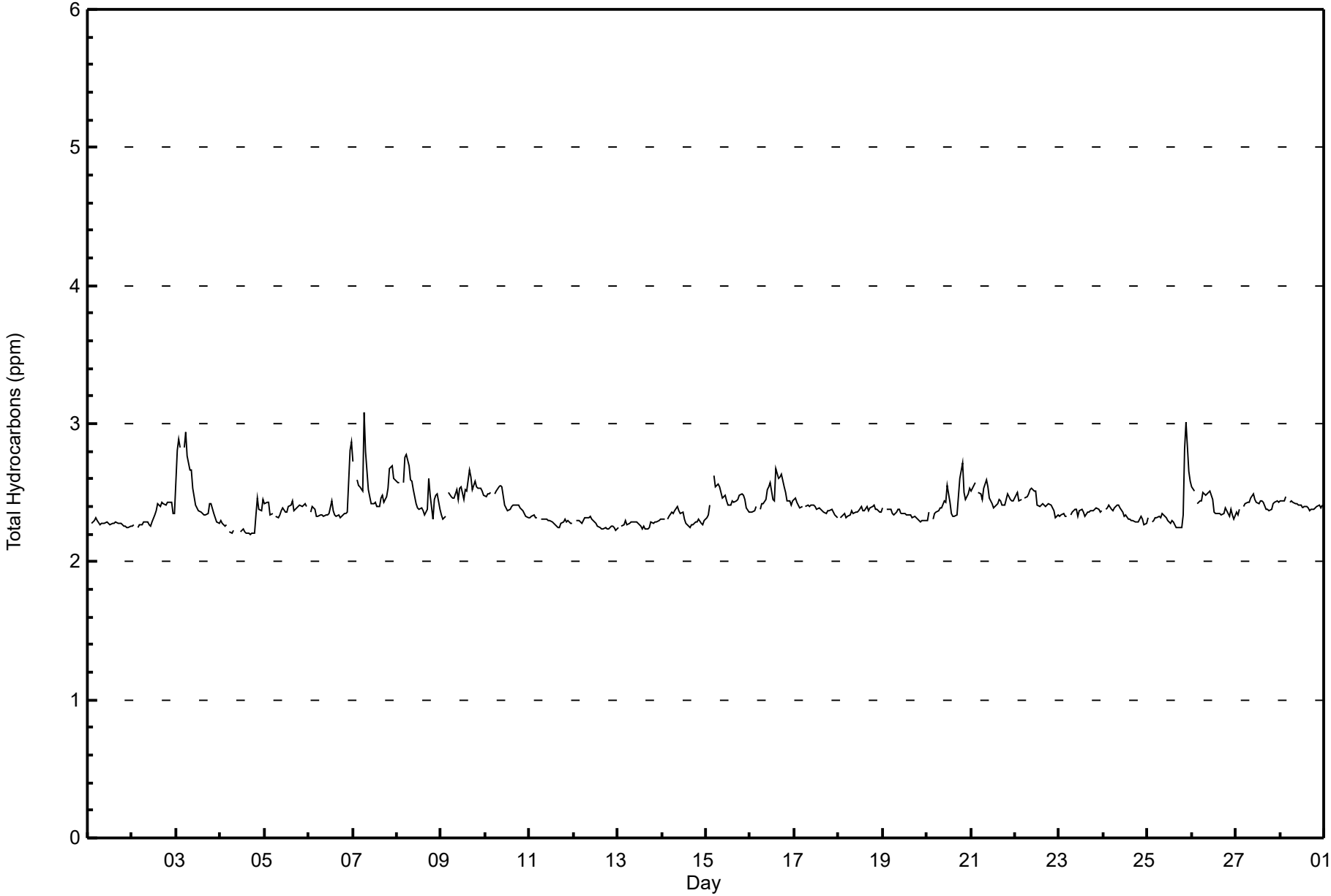
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Mackay River - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	0	0.00	0.00
2.1 - 3.0	640	99.84	99.84
3.1 - 10.0	1	0.16	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Mackay River - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.1 - 3.0	23	107	71	10	12	51	36	28	62	47	26	50	27	16	16	20	602
3.1 - 10.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	23	108	71	10	12	51	36	28	62	47	26	50	27	16	16	20	603

Total Number of Valid Hours: 603

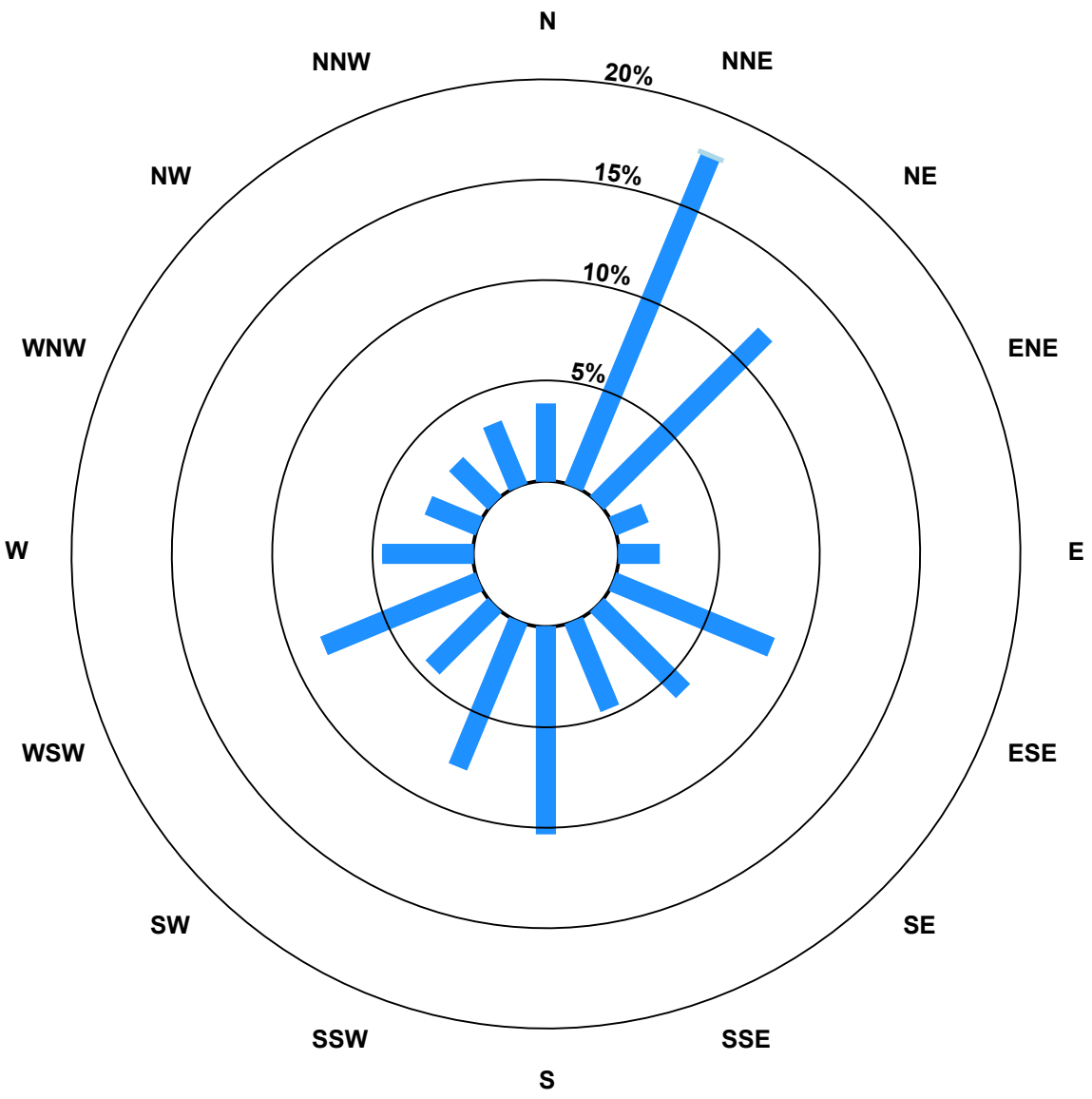
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Mackay River



Classes (ppm)

- 0 - 2.0
- 2.1 - 3.0
- 3.1 - 10.0
- > 10.0

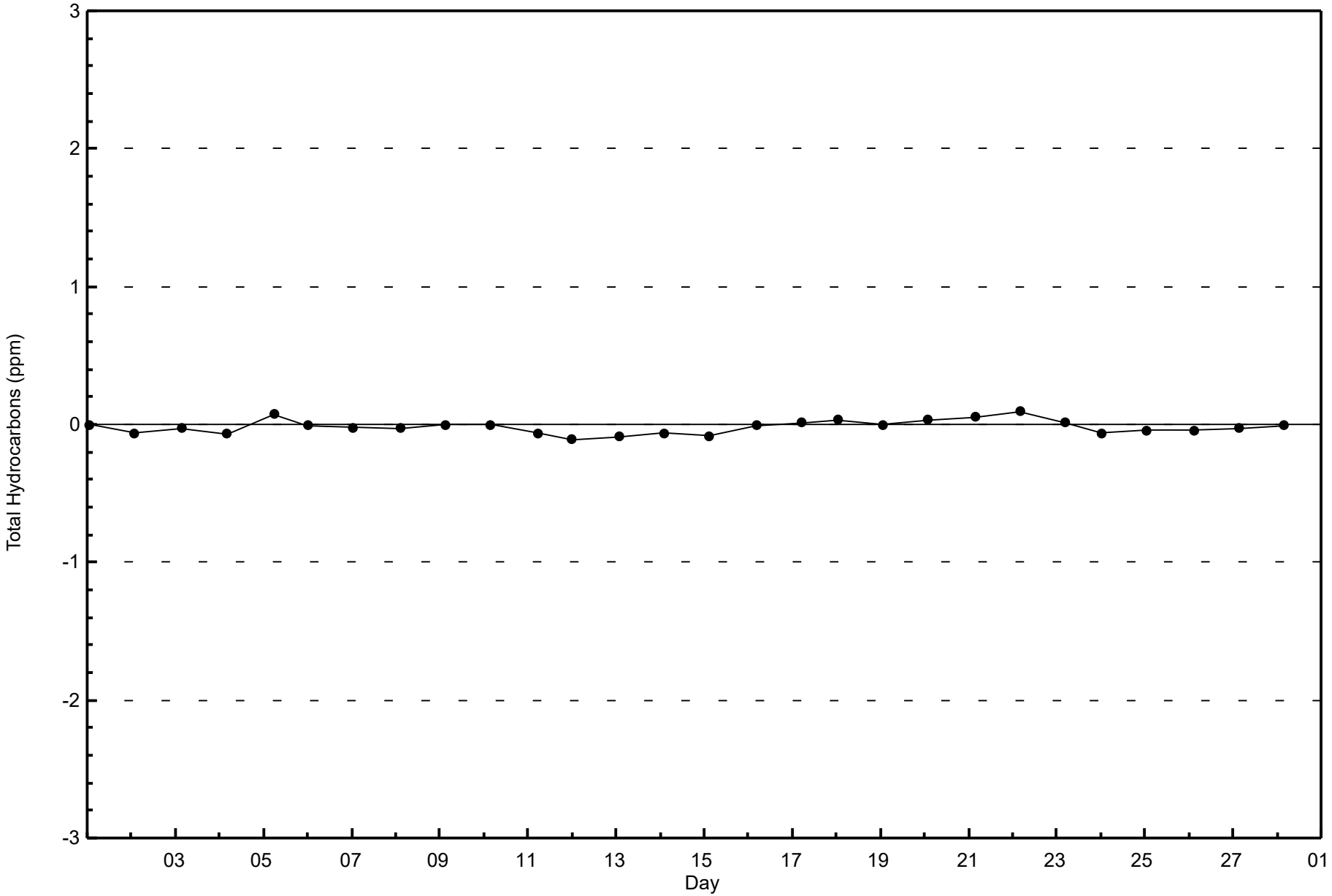
Total Number of Valid Hours: 603

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Mackay River - February 2026

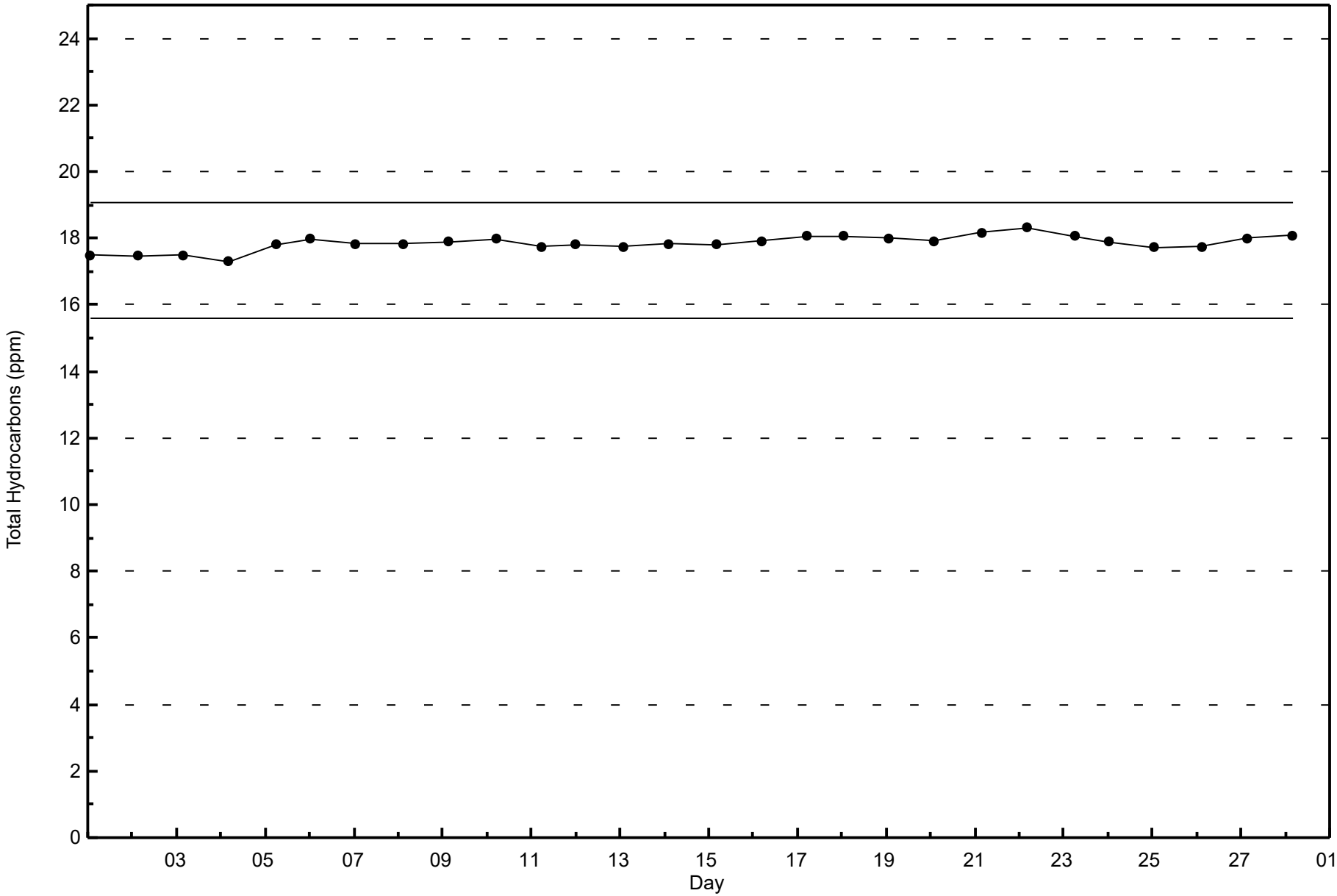


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Mackay River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Mackay River - February 2026

Maximum Value: 18.0 ppb on Feb 7 07:00

Maximum Daily Average: 2.5 ppb on Feb 16

Minimum Value: 0.0 ppb on Feb 1 18:00

Minimum Daily Average: 0.0 ppb on Feb 2

Maximum Diurnal Average: 1.7 ppb at hour 12

Minimum Diurnal Average: 0.0 ppb at hour 23

Monthly Average: 0.62 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.4 P_{90} = 1.8 P_{99} = 8.5

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
2-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C	C	C	C	C	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3-Feb	3.1	Z	1.8	1.6	8.2	16.4	3.5	0.0	0.3	1.2	0.7	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	16.4
4-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
5-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.6	1.2	1.5	1.2	0.9	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5
6-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
7-Feb	0.0	0.0	0.0	0.0	0.0	Z	18.0	4.0	0.3	0.7	0.8	1.0	1.3	1.1	0.9	1.6	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.3	18.0
8-Feb	Z	0.0	0.0	0.0	1.4	3.1	0.2	0.1	0.1	0.6	0.4	0.5	0.6	0.5	0.3	0.2	0.2	0.5	0.1	0.0	0.1	0.0	0.0	0.0	0.4	3.1
9-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	3.5	2.6	2.8	3.1	3.5	5.1	2.4	0.2	0.0	0.0	0.0	0.0	0.1	0.0	1.1	5.1
10-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	1.5	3.6	1.4	1.5	1.4	1.4	1.7	1.7	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.6
11-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	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	0.2
12-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
13-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
15-Feb	0.0	Z	1.7	4.5	0.0	0.0	0.0	0.1	0.7	1.5	3.3	2.3	2.0	2.2	2.1	2.0	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.5
16-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.7	4.0	5.6	7.2	5.2	5.4	12.8	5.2	4.8	6.1	0.1	0.1	0.0	0.0	0.0	0.1	2.5	12.8
17-Feb	0.1	0.1	0.0	Z	0.0	0.0	0.0	0.1	0.7	0.9	1.9	2.5	1.3	1.1	0.8	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.5
18-Feb	0.0	0.1	0.2	0.3	Z	0.4	0.3	0.3	1.0	2.2	2.7	2.7	3.1	3.3	3.1	3.7	2.5	2.2	0.9	0.4	0.3	0.3	0.2	0.2	1.3	3.7
19-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.0	0.1	0.6	0.8	0.5	0.4	0.5	0.3	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8
20-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	0.8	1.0	0.9	0.7	0.5	0.8	0.9	1.7	0.1	0.2	0.0	0.0	0.0	0.1	0.4	1.7
21-Feb	0.0	Z	0.9	0.5	0.1	0.0	0.0	0.2	1.4	2.3	2.1	2.5	0.9	1.1	2.1	1.3	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.5
22-Feb	0.1	0.2	Z	0.4	0.9	1.3	2.2	3.4	9.4	10.7	10.0	8.7	2.1	1.3	1.5	1.5	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.4	10.7
23-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.2	1.7	1.2	0.6	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7
24-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	1.5	0.5	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5
25-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.3	0.4	0.6	0.4	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	1.3	3.6	0.1	0.0	0.3	3.6
26-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	2.0	2.7	4.6	2.1	1.8	1.3	0.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.6
27-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.5	2.0	2.7	2.6	2.8	2.9	2.0	0.9	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.8	2.9
28-Feb	0.1	0.0	Z	0.0	0.0	0.0	0.0	0.2	0.6	0.8	0.6	0.4	0.3	0.2	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8
	0.2	0.0	0.2	0.3	0.5	0.9	0.9	0.3	0.8	1.4	1.6	1.7	1.2	1.1	1.3	1.0	0.7	0.4	0.1	0.0	0.1	0.2	0.0	0.0	Diurnal Average	
	3.1	0.2	1.8	4.5	8.2	16.4	18.0	4.0	9.4	10.7	10.0	8.7	5.2	5.4	12.8	5.2	4.8	6.1	0.9	0.4	1.3	3.6	0.2	0.2	Diurnal Maximum	

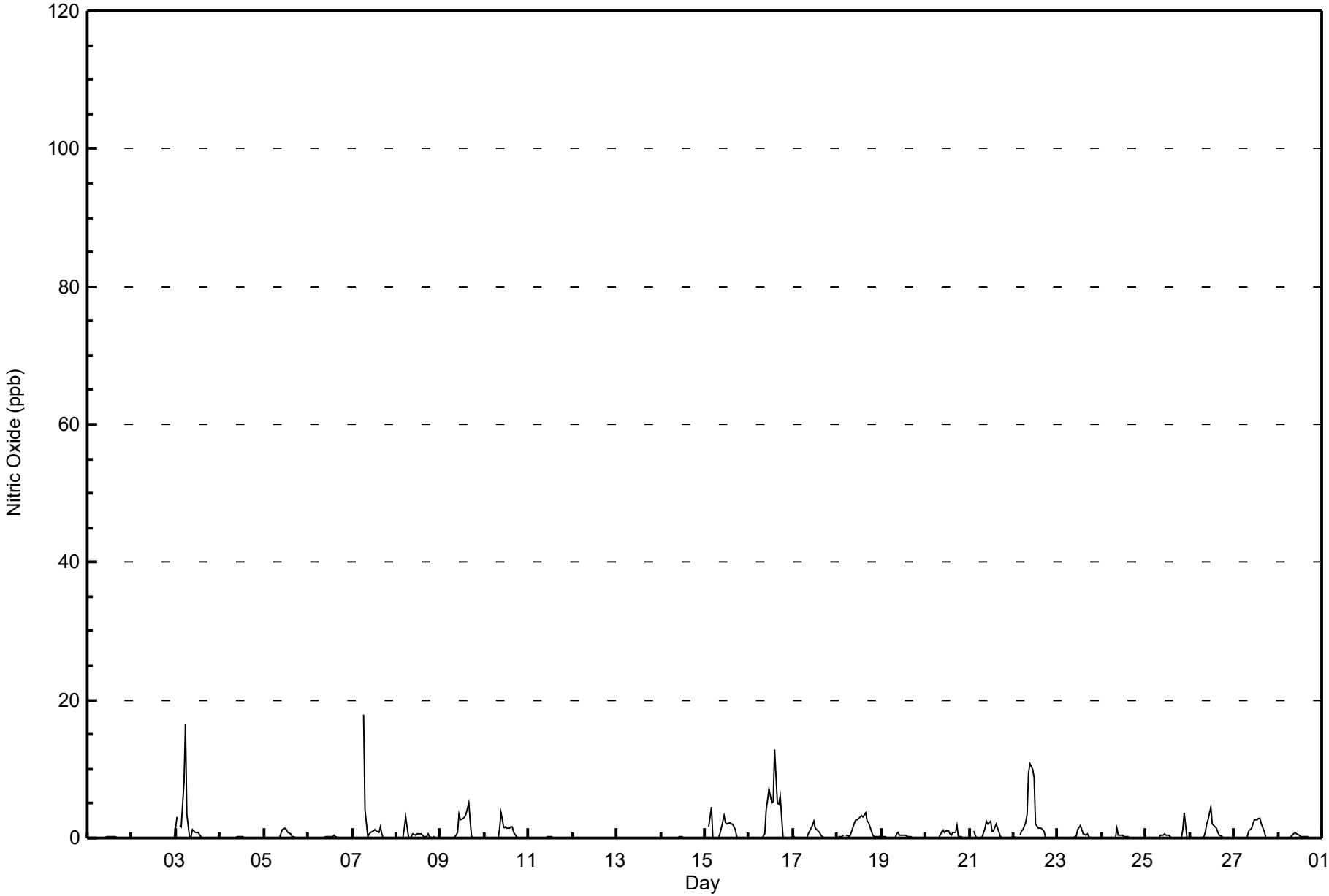
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Mackay River - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	639	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Mackay River - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	22	108	72	10	11	51	38	28	59	47	27	50	28	16	15	19	601
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	22	108	72	10	11	51	38	28	59	47	27	50	28	16	15	19	601

Total Number of Valid Hours: 601

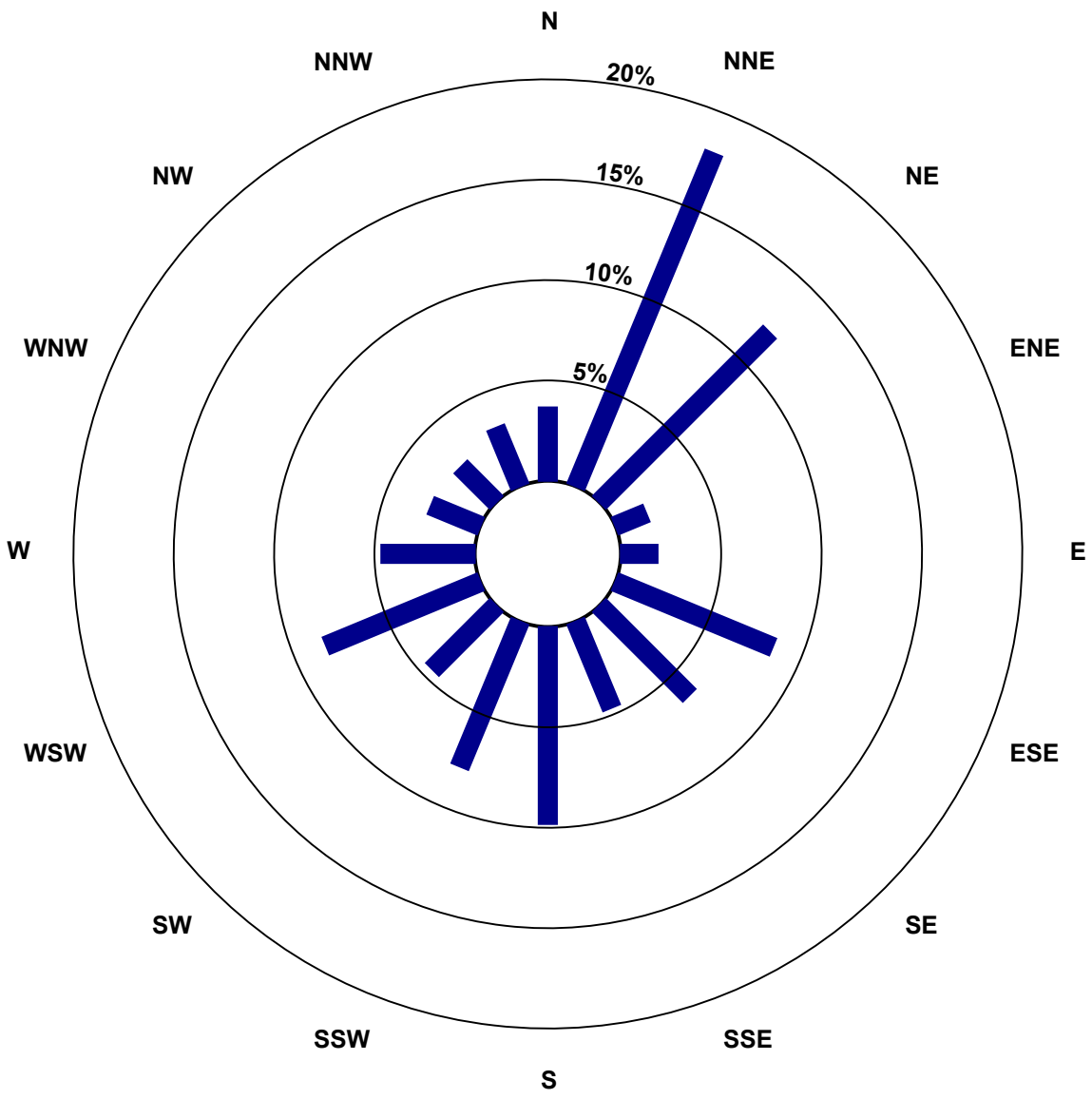
Total Number of Hours: 672

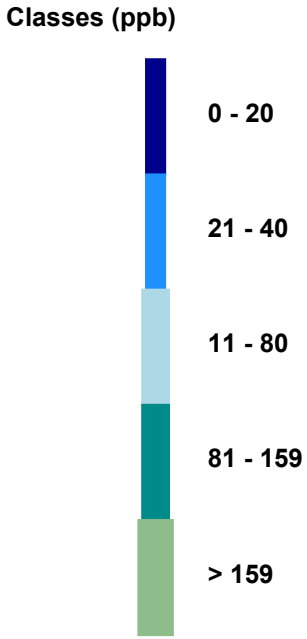
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Mackay River





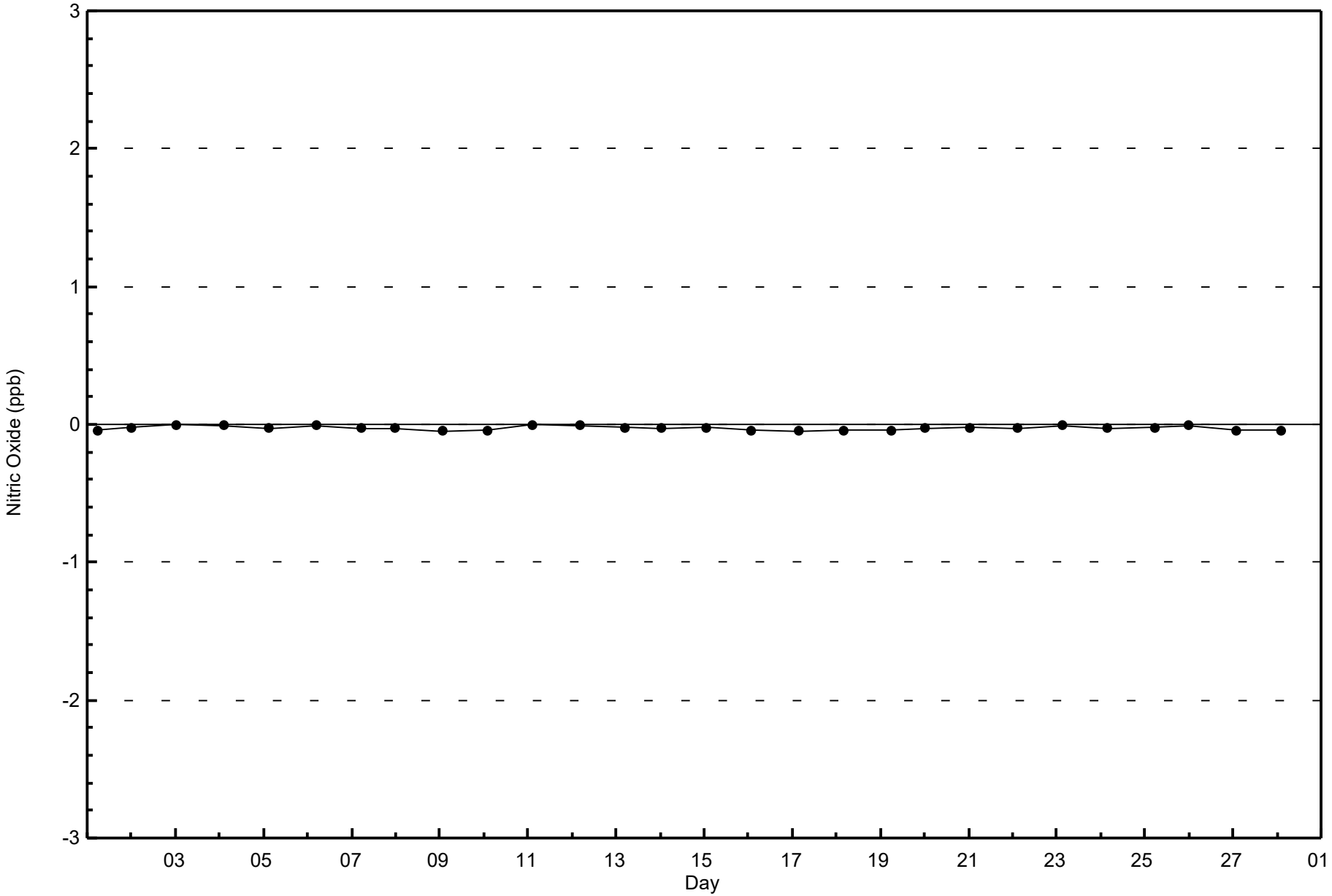
Total Number of Valid Hours: 601

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Mackay River - February 2026

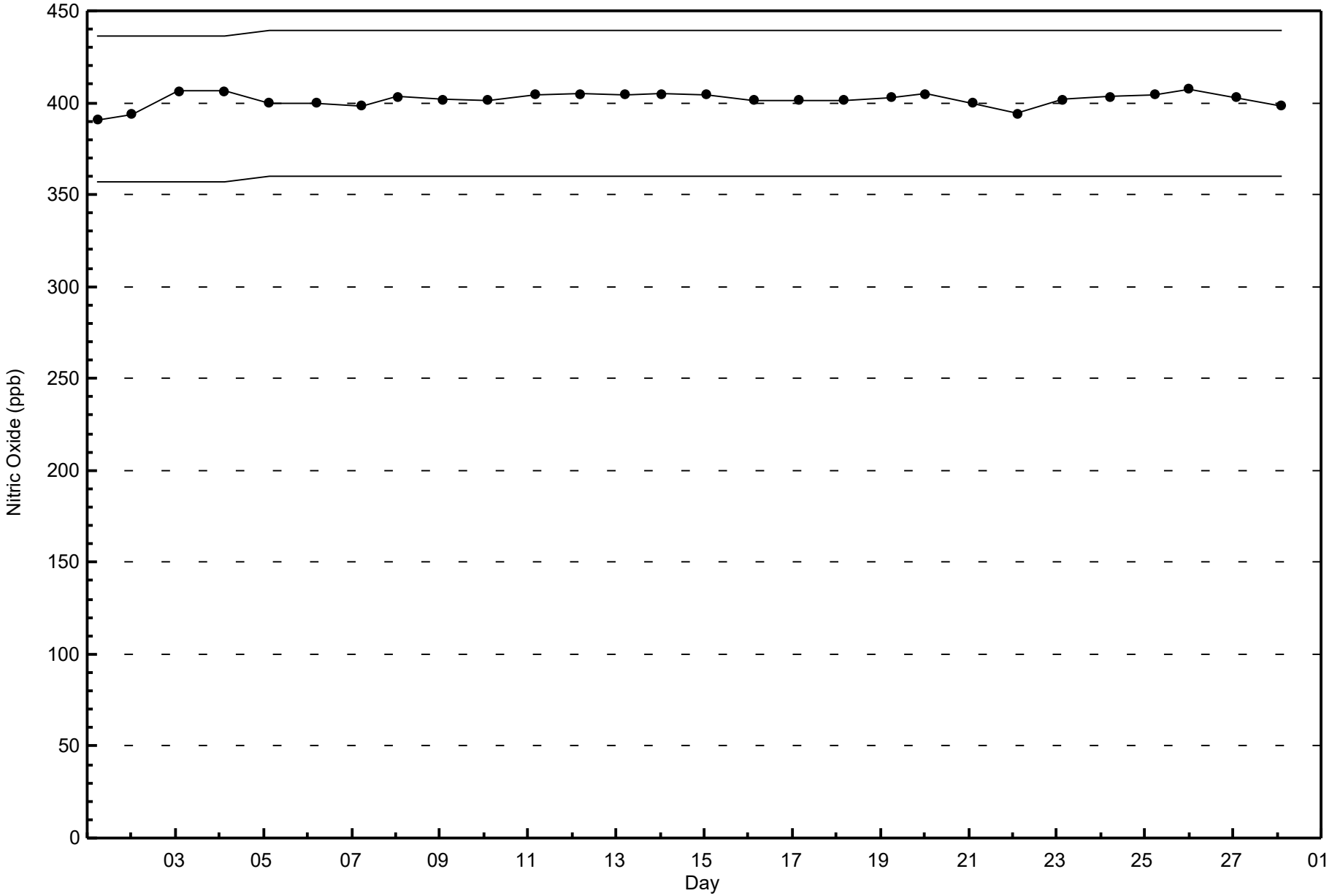


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Mackay River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Mackay River - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 34.4 ppb on Feb 25 22:00
Maximum Daily Average: 10.1 ppb on Feb 7

Minimum Value: 0.2 ppb on Feb 27 00:00
Minimum Daily Average: 0.4 ppb on Feb 13
Maximum Diurnal Average: 7.4 ppb at hour 5
Minimum Diurnal Average: 2.3 ppb at hour 14
Monthly Average: 4.63 ppb
Percentiles: P_1 = 0.3 P_{10} = 0.6 Q_1 = 1.0 Median = 2.5 Q_3 = 6.0 P_{90} = 12.0 P_{99} = 24.7

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	4.9	5.2	2.8	2.6	4.6	Z	3.2	2.3	1.9	1.9	1.7	1.5	1.5	1.5	1.5	2.0	2.0	1.9	1.3	1.0	1.2	1.3	1.4	1.2	2.2	5.2
2-Feb	Z	1.4	1.4	1.4	1.3	1.3	1.3	1.4	C	C	C	C	C	1.0	1.3	1.4	1.4	1.3	1.3	1.4	1.6	1.3	1.0	0.9	1.3	1.6
3-Feb	16.3	Z	22.1	21.8	23.8	24.3	16.3	9.6	10.4	8.6	4.0	4.1	4.0	1.7	0.6	0.5	0.6	1.3	2.8	3.1	1.4	0.9	0.8	0.8	7.8	24.3
4-Feb	1.3	2.2	Z	3.0	2.5	2.1	1.5	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.4	4.0	8.4	4.4	7.0	8.7	2.3	8.7
5-Feb	8.6	7.8	8.8	Z	8.0	5.1	5.3	5.2	3.8	4.7	5.1	4.8	3.6	2.7	2.5	2.0	2.8	5.2	5.0	4.6	4.7	6.1	8.2	8.2	5.3	8.8
6-Feb	5.6	5.2	5.1	3.7	Z	1.6	1.6	1.8	1.9	1.8	1.7	1.6	1.6	1.5	1.4	1.4	1.3	1.2	1.1	1.1	1.0	1.1	4.7	8.4	2.5	8.4
7-Feb	8.1	10.2	10.7	7.9	6.7	Z	24.9	18.0	9.4	6.4	4.9	4.6	5.5	4.4	4.3	10.0	10.7	9.7	13.0	12.1	12.4	13.8	12.5	11.5	10.1	24.9
8-Feb	Z	9.8	11.0	13.8	25.5	30.7	23.2	10.8	6.7	5.6	3.2	2.5	2.3	2.6	2.5	1.6	3.8	18.0	10.5	0.9	1.5	0.9	1.1	0.6	8.2	30.7
9-Feb	0.4	Z	0.4	2.3	4.8	4.4	3.9	3.6	6.3	5.8	10.7	7.1	7.9	8.7	10.1	17.5	18.7	14.6	14.4	13.3	13.7	13.7	13.6	12.6	9.1	18.7
10-Feb	11.8	12.8	Z	15.0	15.2	16.0	15.6	16.0	15.0	11.0	4.5	4.2	3.8	4.0	4.2	4.7	5.4	5.9	5.5	3.9	3.3	2.6	1.9	1.8	8.0	16.0
11-Feb	1.8	1.6	1.4	Z	1.2	1.0	0.9	0.9	0.9	0.9	0.9	1.0	1.2	1.1	1.0	0.9	0.8	0.9	0.9	1.0	0.7	0.6	0.5	0.5	1.0	1.8
12-Feb	0.5	0.5	0.5	0.5	Z	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.6	0.5	0.7	0.9	0.8	0.6	0.7	0.7	0.5	0.4	0.6	0.9
13-Feb	0.4	0.4	0.4	0.4	0.4	Z	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.5
14-Feb	Z	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.8	0.8	0.8	0.7	0.8	0.7	0.6	0.5	0.6	0.7	0.6	0.3	0.4	0.5	0.8
15-Feb	0.6	Z	6.4	29.2	16.9	12.5	14.1	12.0	8.3	5.9	6.6	4.8	3.8	4.2	4.8	4.5	6.0	7.1	9.8	12.0	9.7	7.3	5.1	3.5	8.5	29.2
16-Feb	2.8	2.5	Z	2.2	2.1	1.8	1.5	1.5	3.0	6.9	6.6	6.9	5.0	5.2	11.2	7.4	11.2	17.8	12.8	12.0	7.8	7.5	7.3	9.5	6.6	17.8
17-Feb	12.1	9.9	6.3	Z	5.8	7.0	6.8	5.3	4.3	2.7	3.5	4.3	2.8	2.8	2.8	2.7	2.5	2.0	2.1	2.5	3.6	3.3	3.0	2.5	4.4	12.1
18-Feb	2.5	2.5	2.4	2.6	Z	2.1	1.7	2.0	1.6	1.5	1.3	1.3	1.4	1.8	1.5	2.0	2.3	4.0	5.5	5.6	5.7	5.5	5.5	5.3	2.9	5.7
19-Feb	5.2	5.1	5.0	4.9	4.6	Z	3.5	2.8	1.8	0.9	0.5	0.6	0.6	0.6	0.6	0.8	0.9	1.2	1.1	0.8	0.7	0.7	0.7	0.8	1.9	5.2
20-Feb	Z	1.2	1.1	1.3	1.5	1.5	1.7	2.1	2.2	2.7	1.8	2.0	1.9	1.7	1.4	2.5	5.7	23.6	26.2	32.3	13.4	10.4	12.9	16.8	7.3	32.3
21-Feb	14.6	Z	23.7	22.2	16.6	11.5	9.2	12.1	12.0	8.5	5.2	4.9	2.8	3.1	6.1	4.5	5.0	4.3	4.3	7.9	11.3	8.4	8.7	8.0	9.3	23.7
22-Feb	9.6	10.8	Z	10.9	12.0	11.9	11.6	10.5	8.0	6.6	5.8	5.2	2.5	2.7	3.9	4.6	5.1	6.3	6.0	5.3	4.8	1.8	0.8	0.7	6.4	12.0
23-Feb	0.6	0.7	0.6	Z	0.8	0.7	0.7	0.7	0.8	0.9	0.6	2.1	2.7	2.7	1.6	2.4	3.3	3.5	3.2	2.5	2.5	2.5	2.4	2.1	1.8	3.5
24-Feb	1.9	1.7	1.5	1.6	Z	1.5	1.7	1.7	2.6	1.3	1.1	0.9	0.6	0.6	0.7	0.6	0.6	0.7	1.3	0.6	0.8	0.8	1.0	1.4	1.2	2.6
25-Feb	2.4	2.4	2.4	2.1	1.7	Z	2.2	2.0	2.0	1.8	1.5	1.4	1.3	1.1	0.9	0.8	0.8	1.0	1.2	4.2	24.5	34.4	19.8	14.9	5.5	34.4
26-Feb	Z	12.8	10.5	9.7	7.8	10.0	13.2	12.8	13.3	12.4	10.1	9.2	4.9	2.8	3.6	3.3	4.2	4.6	6.0	3.8	0.3	0.5	0.3	0.2	6.8	13.3
27-Feb	0.4	Z	5.7	7.0	7.2	7.2	6.6	5.5	4.0	3.0	2.4	2.4	2.2	2.6	3.2	3.3	2.8	2.3	1.9	2.9	5.4	7.2	7.5	6.5	4.3	7.5
28-Feb	5.3	5.2	Z	6.1	6.0	5.3	4.5	3.3	2.3	1.6	0.9	0.7	0.7	0.8	0.9	1.0	1.1	1.1	1.3	1.3	1.3	1.9	3.5	4.4	2.6	6.1
	5.1	4.9	5.7	7.2	7.4	7.0	6.4	5.2	4.6	3.9	3.2	3.0	2.5	2.3	2.7	3.0	3.6	5.1	5.0	5.1	5.1	5.0	4.7	4.7	Diurnal Average	
	16.3	12.8	23.7	29.2	25.5	30.7	24.9	18.0	15.0	12.4	10.7	9.2	7.9	8.7	11.2	17.5	18.7	23.6	26.2	32.3	24.5	34.4	19.8	16.8	Diurnal Maximum	

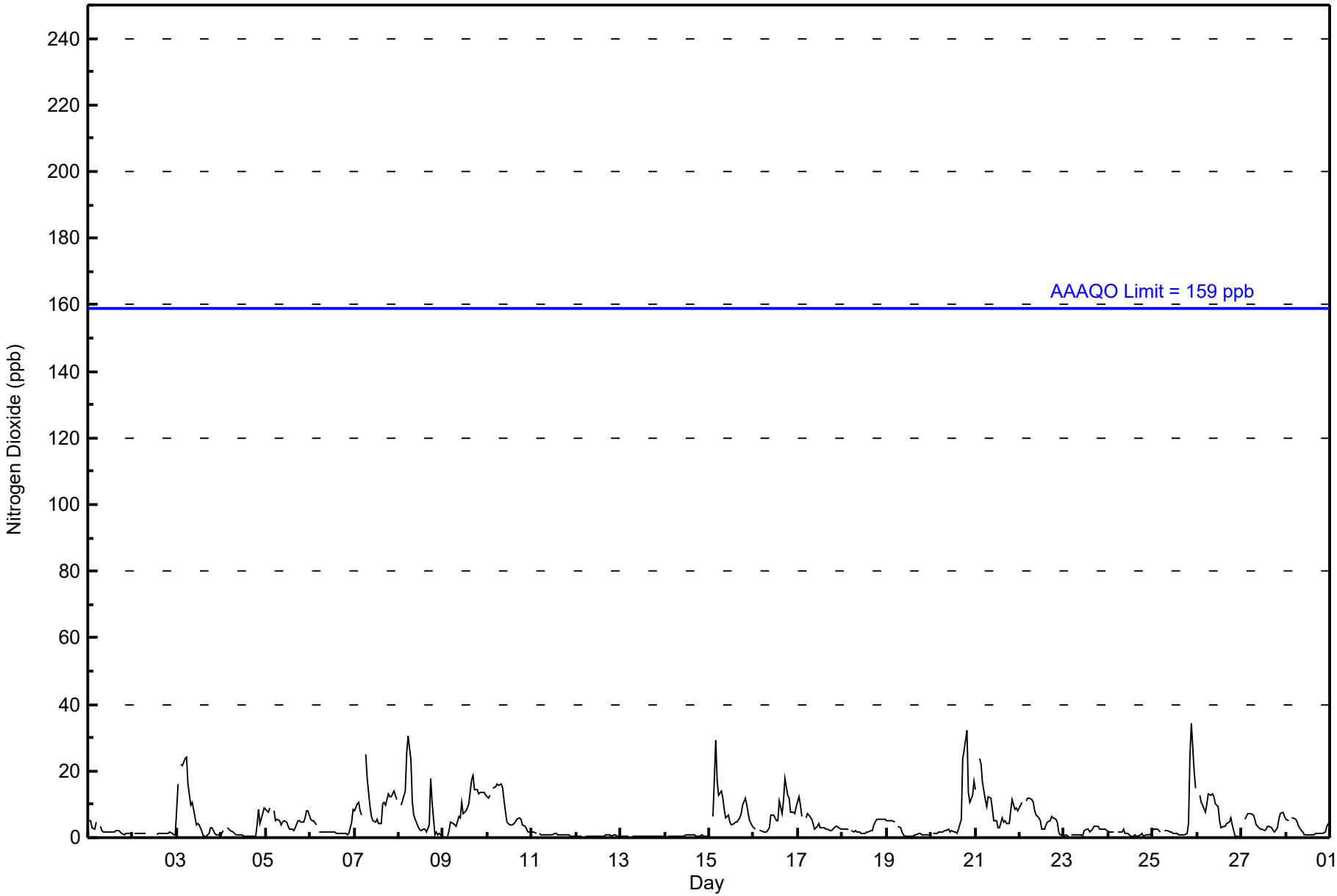
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Mackay River - February 2026



Nitrogen Dioxide (NO_2) - ppb
Mackay River - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	623	97.50	97.50
21 - 40	16	2.50	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Mackay River - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	20	102	68	10	11	51	38	28	59	47	27	50	28	16	15	15	585
21 - 40	2	6	4	0	0	0	0	0	0	0	0	0	0	0	0	4	16
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	22	108	72	10	11	51	38	28	59	47	27	50	28	16	15	19	601

Total Number of Valid Hours: 601

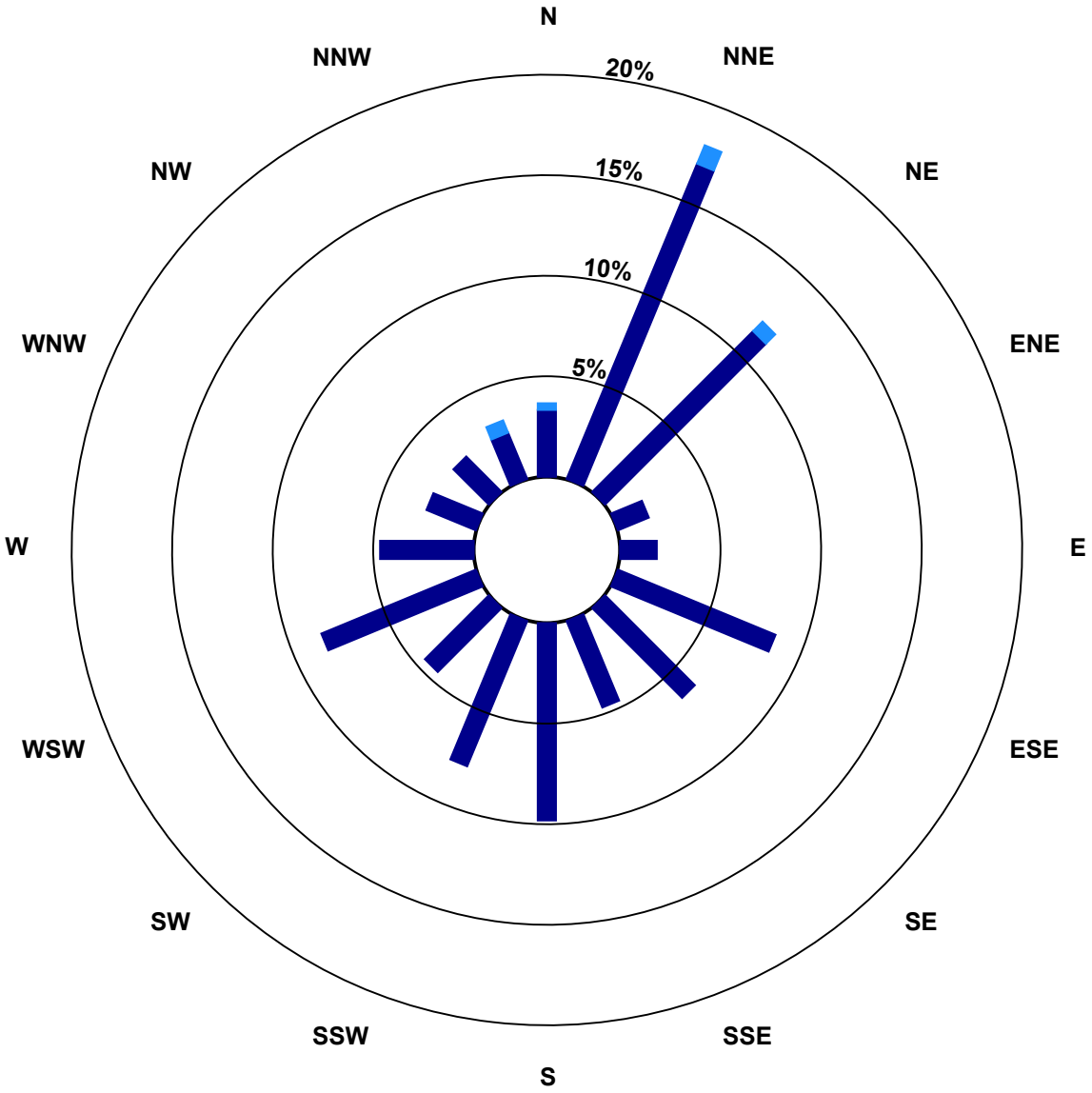
Total Number of Hours: 672

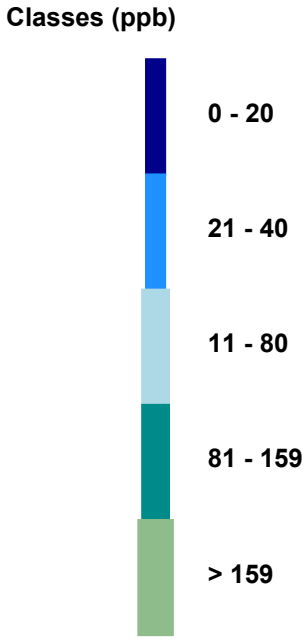
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Mackay River





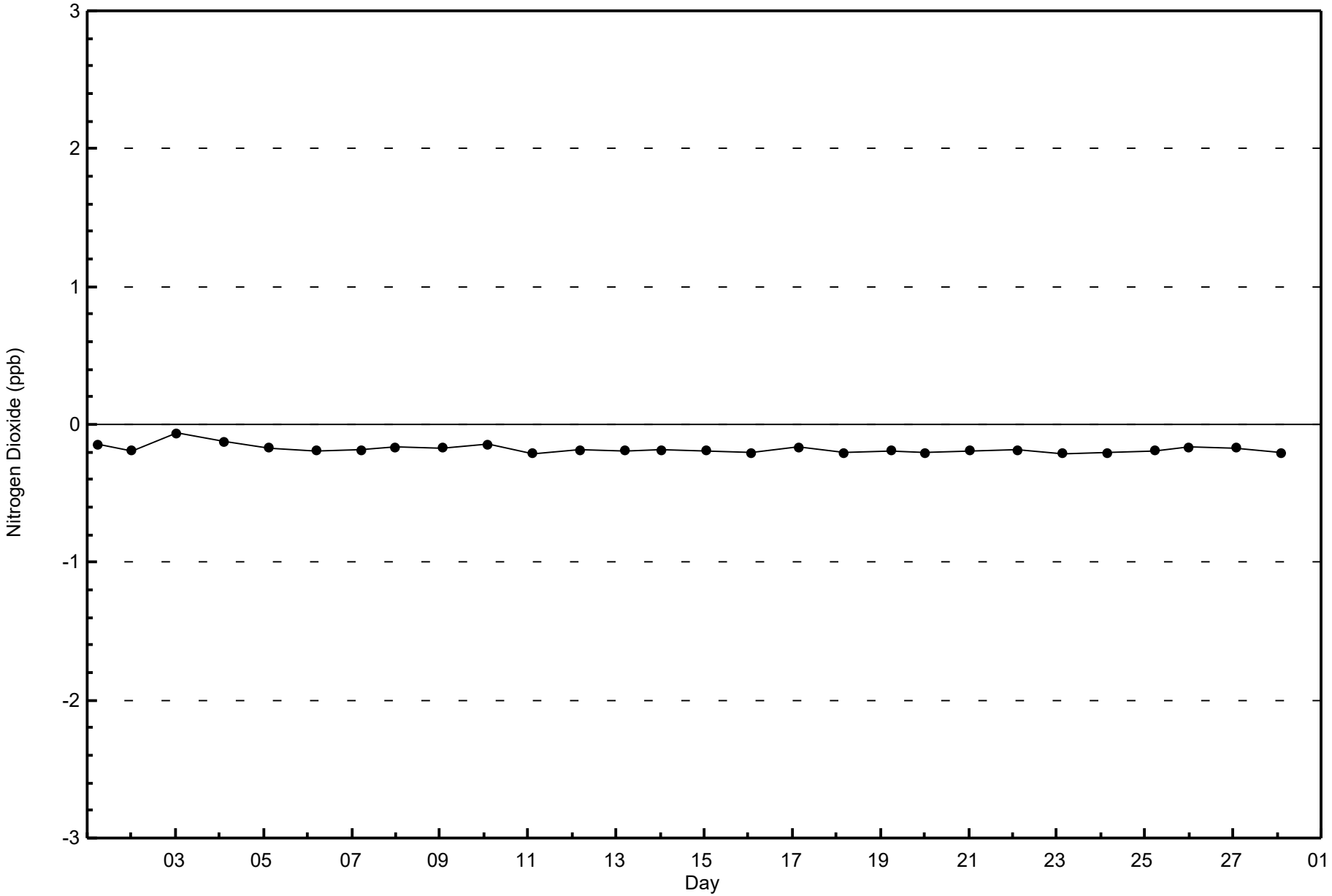
Total Number of Valid Hours: 601

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Mackay River - February 2026

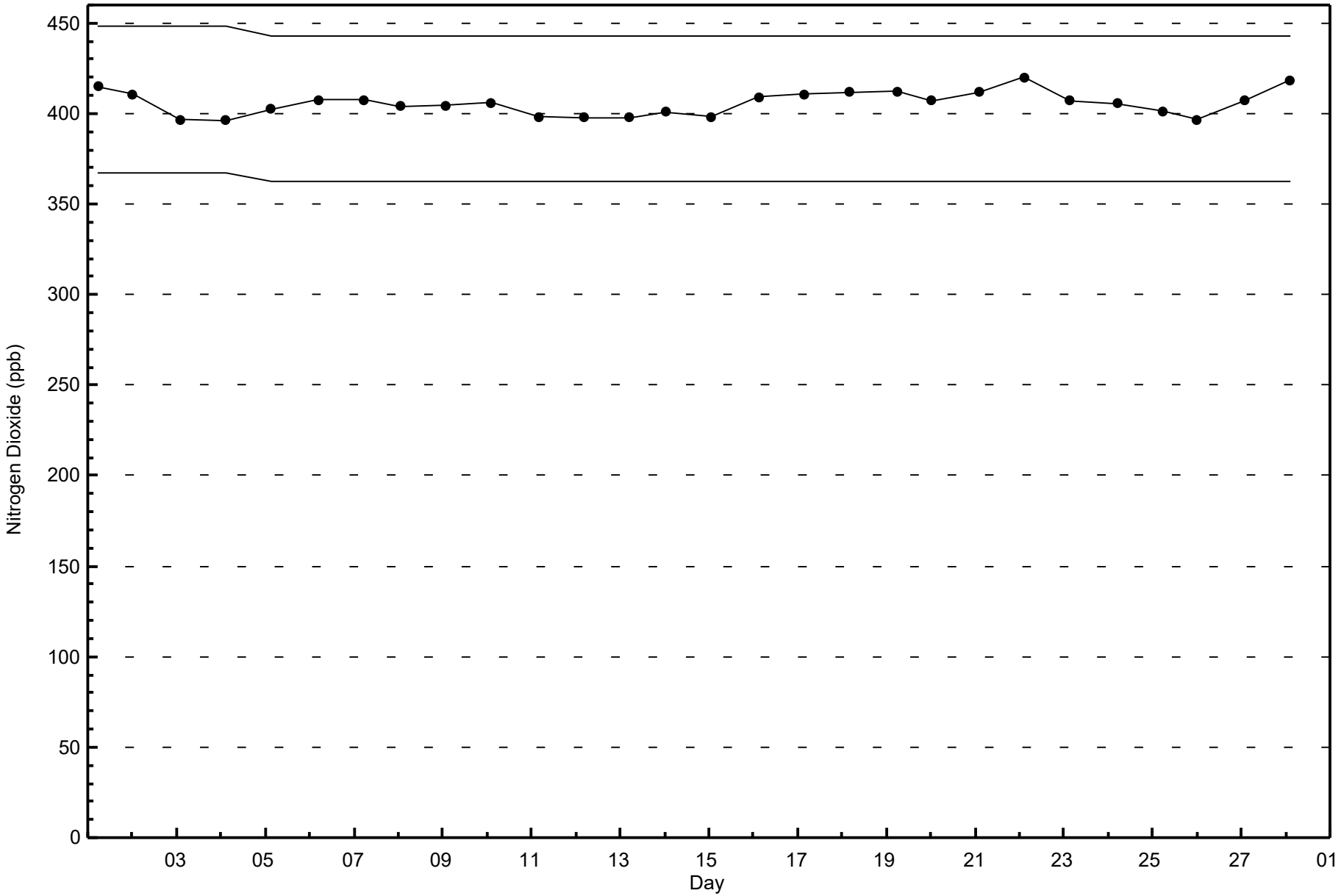


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Mackay River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Mackay River - February 2026

Maximum Value: 42.9 ppb on Feb 7 07:00

Maximum Daily Average: 11.4 ppb on Feb 7

Minimum Value: 0.2 ppb on Feb 27 00:00

Minimum Daily Average: 0.4 ppb on Feb 13

Maximum Diurnal Average: 7.9 ppb at hour 6

Minimum Diurnal Average: 3.4 ppb at hour 14

Monthly Average: 5.24 ppb

Percentiles: P_1 = 0.3 P_{10} = 0.6 Q_1 = 1.1 Median = 2.9 Q_3 = 6.8 P_{90} = 13.0 P_{99} = 30.0

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	4.9	5.2	2.8	2.6	4.6	Z	3.2	2.3	1.9	2.0	1.9	1.8	1.8	1.7	1.7	2.1	2.0	1.9	1.3	1.0	1.2	1.3	1.4	1.2	2.3	5.2
2-Feb	Z	1.4	1.4	1.4	1.3	1.3	1.3	1.4	C	C	C	C	C	1.1	1.3	1.4	1.4	1.3	1.3	1.4	1.6	1.3	1.0	0.9	1.3	1.6
3-Feb	19.4	Z	23.9	23.4	32.0	40.7	19.8	9.6	10.7	9.8	4.7	4.9	4.8	2.0	0.6	0.5	0.6	1.3	2.8	3.1	1.4	0.9	0.8	0.8	9.5	40.7
4-Feb	1.3	2.2	Z	3.0	2.5	2.1	1.5	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.5	0.5	0.4	4.0	8.4	4.4	7.0	8.7	2.3	8.7
5-Feb	8.6	7.8	8.8	Z	8.0	5.1	5.3	5.2	3.9	5.3	6.3	6.3	4.8	3.6	3.1	2.2	2.9	5.2	5.0	4.6	4.7	6.1	8.2	8.2	5.6	8.8
6-Feb	5.6	5.2	5.1	3.7	Z	1.6	1.6	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.6	1.4	1.2	1.1	1.1	1.0	1.1	4.7	8.4	2.6	8.4
7-Feb	8.1	10.2	10.7	7.9	6.7	Z	42.9	22.0	9.7	7.1	5.7	5.6	6.8	5.5	5.2	11.6	11.4	9.8	13.0	12.1	12.4	13.8	12.5	11.5	11.4	42.9
8-Feb	Z	9.8	11.0	13.8	26.9	33.8	23.4	10.9	6.8	6.2	3.6	3.0	2.9	3.1	2.8	1.8	4.0	18.5	10.6	0.9	1.6	0.9	1.1	0.6	8.6	33.8
9-Feb	0.4	Z	0.4	2.3	4.8	4.4	3.9	3.6	6.6	6.6	14.2	9.7	10.7	11.8	13.6	22.6	21.1	14.8	14.4	13.3	13.7	13.7	13.7	12.6	10.1	22.6
10-Feb	11.8	12.8	Z	15.0	15.2	16.0	15.6	16.1	16.5	14.6	5.9	5.7	5.2	5.4	5.9	6.4	6.3	6.0	5.5	3.9	3.3	2.6	1.9	1.8	8.7	16.5
11-Feb	1.8	1.6	1.4	Z	1.2	1.0	0.9	0.9	0.9	0.9	1.0	1.2	1.3	1.2	1.1	0.9	0.8	0.9	0.9	1.0	0.7	0.6	0.5	0.5	1.0	1.8
12-Feb	0.5	0.5	0.5	0.5	Z	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.7	0.9	0.8	0.6	0.7	0.7	0.5	0.4	0.6	0.9
13-Feb	0.4	0.4	0.4	0.4	0.4	Z	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.6
14-Feb	Z	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.7	0.9	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.6	0.7	0.6	0.3	0.4	0.5	0.9
15-Feb	0.6	Z	8.1	33.7	16.9	12.5	14.1	12.1	9.0	7.4	9.9	7.1	5.8	6.4	6.9	6.5	7.3	7.4	9.8	12.0	9.7	7.3	5.1	3.5	9.5	33.7
16-Feb	2.8	2.5	Z	2.2	2.1	1.8	1.5	1.5	3.7	10.9	12.2	14.1	10.2	10.6	24.0	12.6	16.0	23.9	12.9	12.1	7.8	7.5	7.3	9.6	9.1	24.0
17-Feb	12.2	10.0	6.3	Z	5.8	7.0	6.8	5.4	5.0	3.6	5.4	6.8	4.1	3.9	3.6	3.1	2.7	2.0	2.1	2.5	3.6	3.3	3.0	2.5	4.8	12.2
18-Feb	2.5	2.6	2.6	2.9	Z	2.5	2.0	2.3	2.6	3.7	4.0	4.0	4.5	5.1	4.6	5.7	4.8	6.2	6.4	6.0	6.0	5.8	5.7	5.5	4.3	6.4
19-Feb	5.3	5.2	5.1	5.0	4.7	Z	3.5	2.9	2.4	1.7	1.0	1.0	1.1	0.9	0.9	1.1	1.1	1.2	1.1	0.8	0.7	0.7	0.7	0.8	2.1	5.3
20-Feb	Z	1.2	1.1	1.3	1.5	1.5	1.7	2.1	2.6	3.9	2.6	3.0	2.8	2.4	1.9	3.3	6.6	25.3	26.3	32.5	13.4	10.4	12.9	16.9	7.7	32.5
21-Feb	14.6	Z	24.6	22.7	16.7	11.5	9.2	12.3	13.4	10.8	7.3	7.4	3.7	4.2	8.2	5.8	5.9	4.5	4.3	7.9	11.3	8.4	8.7	8.0	10.1	24.6
22-Feb	9.7	11.0	Z	11.3	12.9	13.2	13.8	13.9	17.4	17.3	15.8	13.9	4.6	4.0	5.4	6.1	6.0	6.6	6.0	5.3	4.8	1.8	0.8	0.7	8.8	17.4
23-Feb	0.6	0.7	0.6	Z	0.8	0.7	0.7	0.7	0.8	1.1	0.8	3.3	4.4	3.9	2.2	2.9	3.8	3.7	3.2	2.5	2.5	2.5	2.4	2.1	2.0	4.4
24-Feb	1.9	1.7	1.5	1.6	Z	1.5	1.7	1.7	4.1	1.8	1.6	1.2	0.8	0.8	0.8	0.7	0.6	0.7	1.3	0.6	0.8	0.8	1.0	1.4	1.3	4.1
25-Feb	2.4	2.4	2.4	2.1	1.7	Z	2.2	2.0	2.3	2.2	2.1	1.8	1.6	1.4	1.0	0.8	0.8	1.0	1.2	4.2	25.8	38.0	19.9	14.9	5.8	38.0
26-Feb	Z	12.8	10.5	9.7	7.8	10.0	13.2	13.0	14.2	14.4	12.8	13.8	7.0	4.6	4.9	4.1	4.6	4.7	6.0	3.8	0.3	0.5	0.3	0.2	7.5	14.4
27-Feb	0.4	Z	5.7	7.0	7.2	7.2	6.6	5.8	5.0	4.5	4.4	5.1	4.8	5.4	6.1	5.3	3.7	2.5	1.9	2.9	5.4	7.2	7.6	6.5	5.1	7.6
28-Feb	5.4	5.2	Z	6.1	6.0	5.3	4.5	3.5	2.9	2.4	1.5	1.1	1.0	1.0	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.9	3.5	4.4	2.8	6.1
	5.3	4.9	5.9	7.5	7.8	7.9	7.2	5.5	5.4	5.3	4.8	4.7	3.7	3.4	4.0	4.0	4.3	5.5	5.1	5.1	5.2	5.2	4.7	4.8	Diurnal Average	
	19.4	12.8	24.6	33.7	32.0	40.7	42.9	22.0	17.4	17.3	15.8	14.1	10.7	11.8	24.0	22.6	21.1	25.3	26.3	32.5	25.8	38.0	19.9	16.9	Diurnal Maximum	

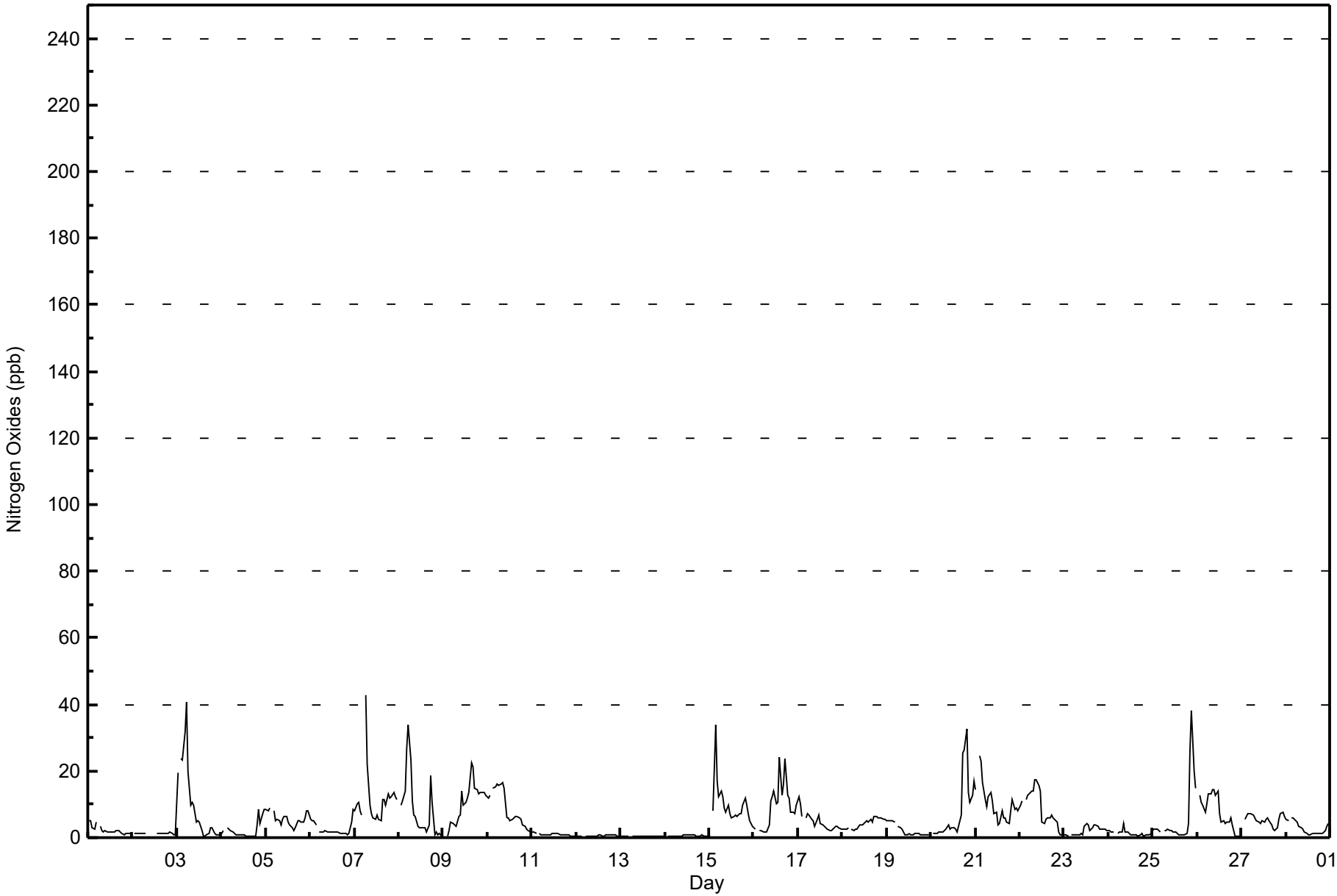
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Mackay River - February 2026



Nitrogen Oxides (NO_X) - ppb
Mackay River - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	618	96.71	96.71
21 - 40	19	2.97	99.69
11 - 80	2	0.31	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Mackay River - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	20	98	67	10	11	51	38	28	59	47	27	50	28	16	15	15	580
21 - 40	2	9	4	0	0	0	0	0	0	0	0	0	0	0	0	4	19
11 - 80	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	22	108	72	10	11	51	38	28	59	47	27	50	28	16	15	19	601

Total Number of Valid Hours: 601

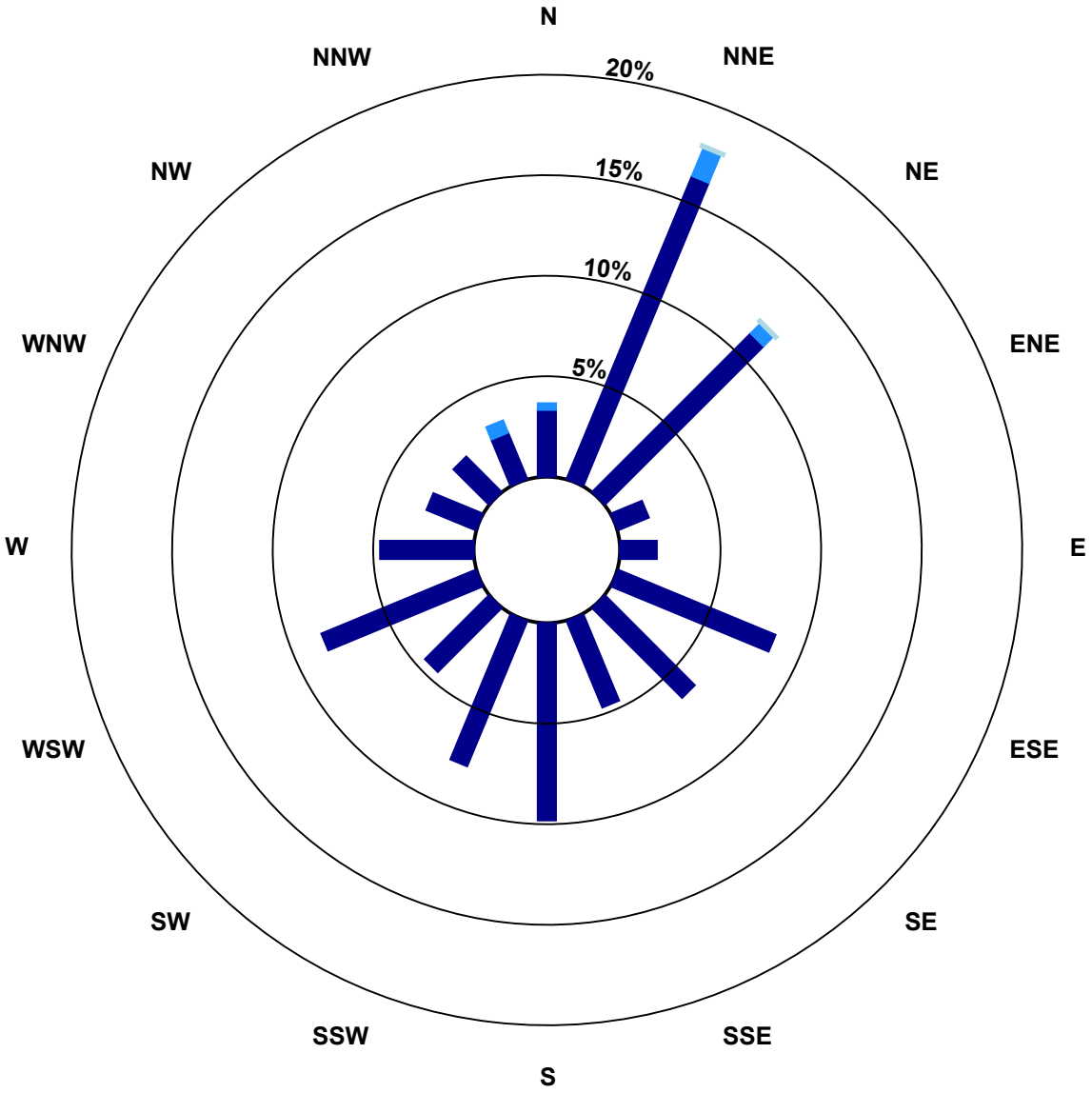
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Mackay River



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

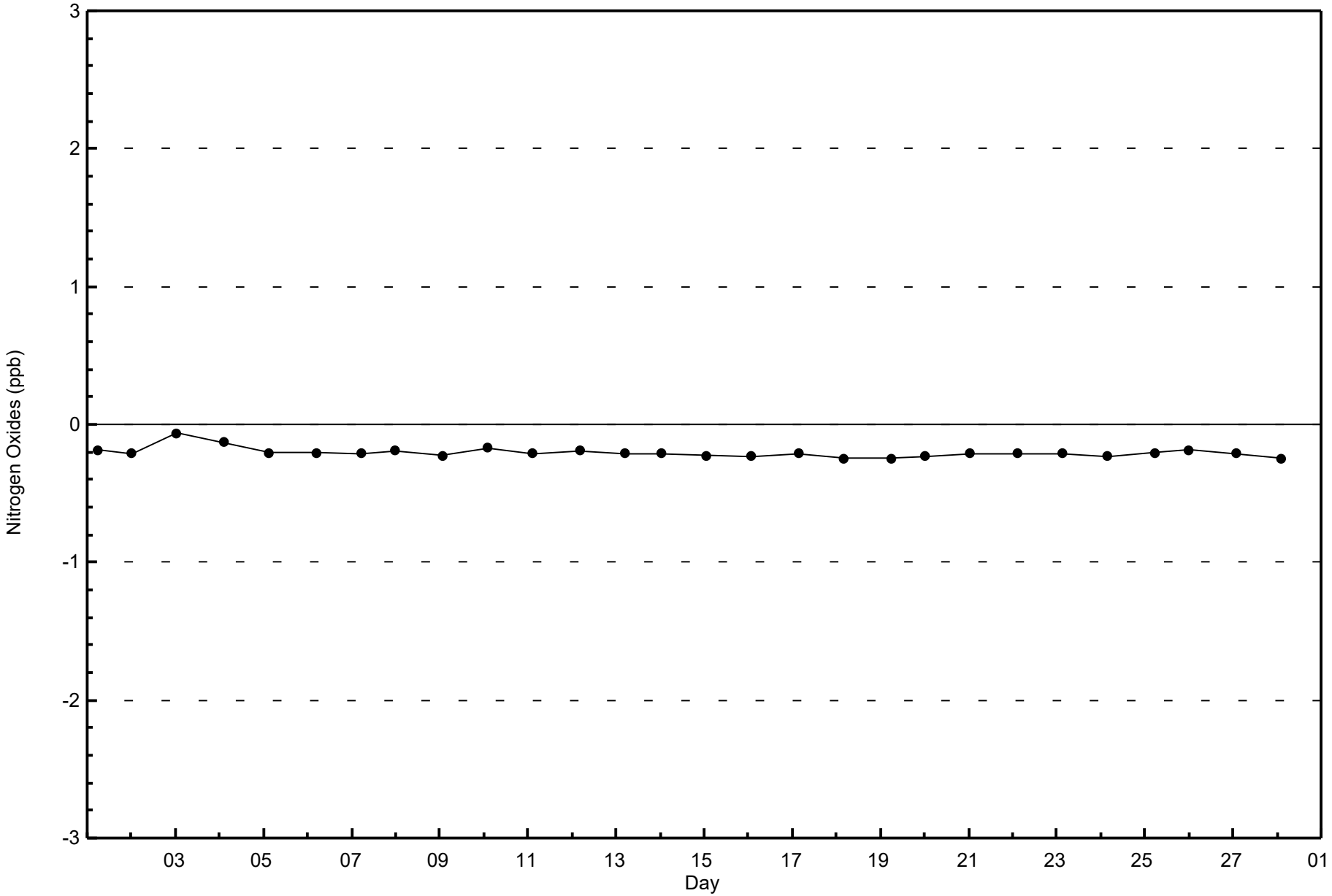
Total Number of Valid Hours: 601

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Mackay River - February 2026

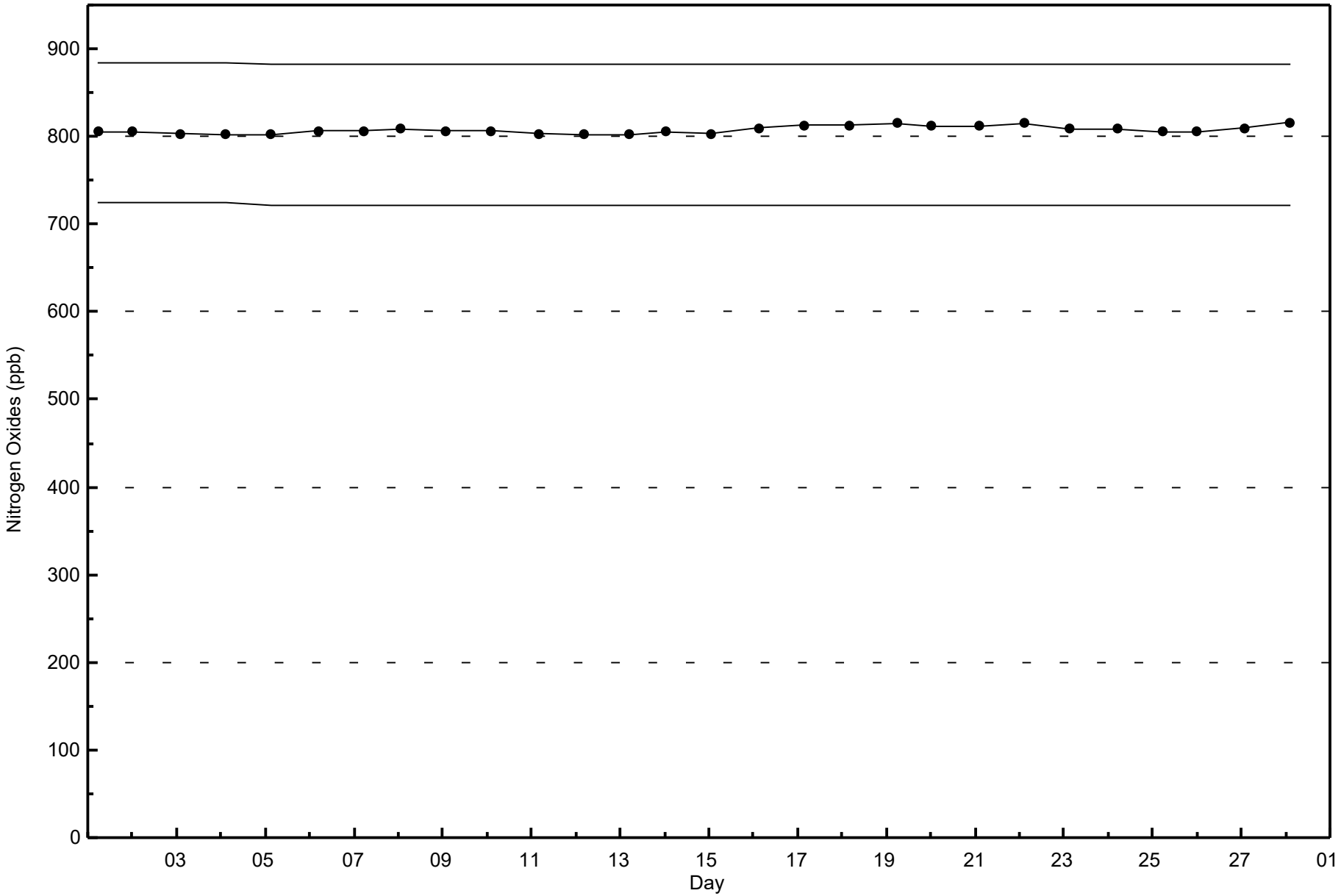


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Mackay River - February 2026



Maximum Value: 9.6 C on Feb 4 15:00

Maximum Daily Average: 2.4 C on Feb 4

Minimum Value: -39.8 C on Feb 19 03:00

Minimum Daily Average: -32.2 C on Feb 18

Maximum Diurnal Average: -10.4 C at hour 16

Minimum Diurnal Average: -18.1 C at hour 8

Monthly Average: -14.68 C

Percentiles: P_1 = -38.2 P_{10} = -29.5 Q_1 = -21.6 Median = -13.8 Q_3 = -7.2 P_{90} = -1.1 P_{99} = 5.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

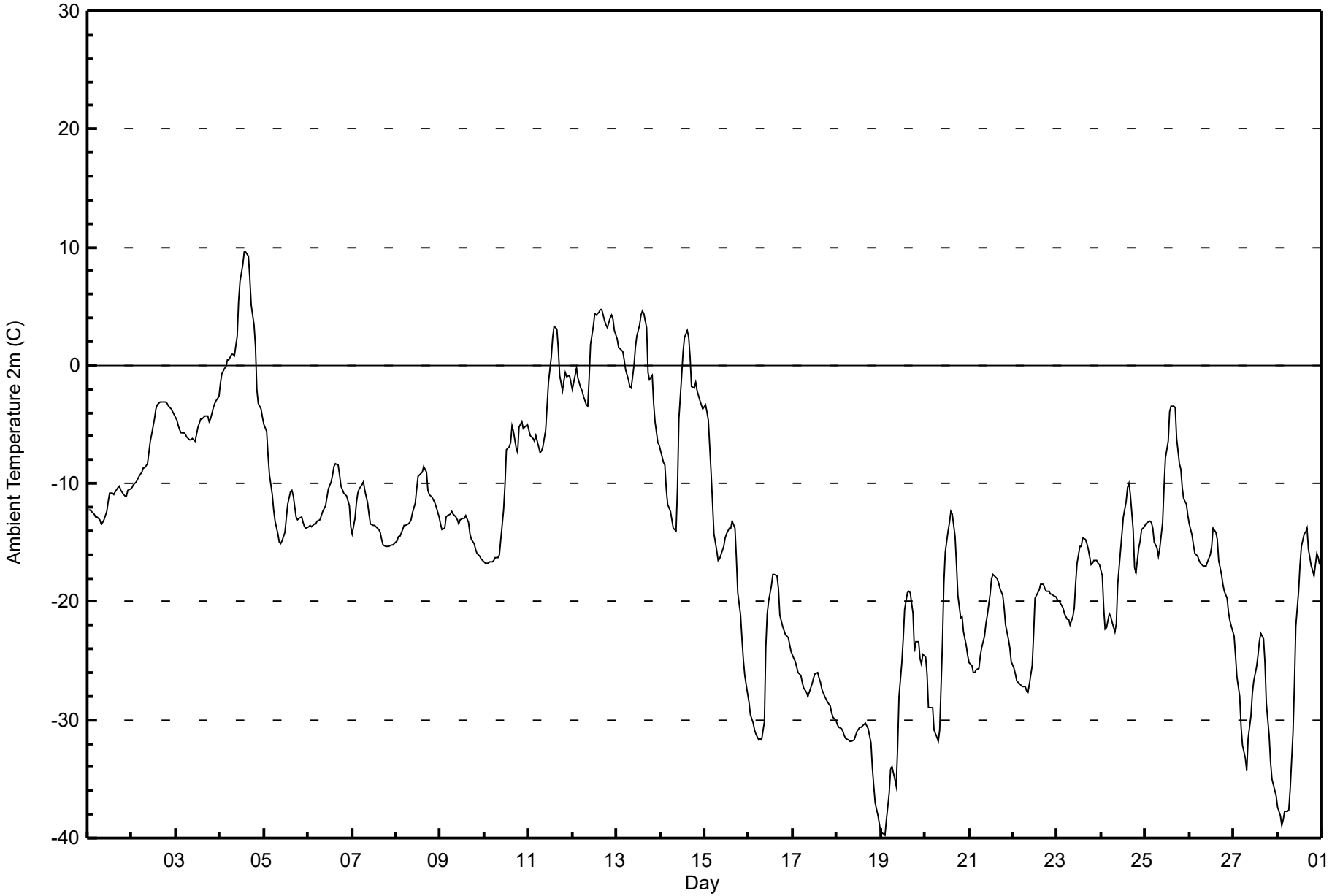
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.2	-12.2	-12.4	-12.6	-12.8	-12.9	-13.1	-13.4	-13.3	-13.1	-12.3	-11.5	-10.9	-10.8	-11.0	-10.7	-10.4	-10.2	-10.6	-11.0	-11.1	-11.0	-10.6	-10.4	-11.7	-10.2
2-Feb	-10.3	-10.1	-9.8	-9.6	-9.4	-9.1	-8.7	-8.6	-8.3	-7.3	-6.4	-5.8	-4.5	-3.7	-3.3	-3.2	-3.1	-3.1	-3.1	-3.2	-3.4	-3.7	-3.9	-4.2	-6.1	-3.1
3-Feb	-4.6	-5.1	-5.4	-5.7	-5.7	-5.8	-6.1	-6.3	-6.4	-6.2	-6.4	-5.9	-5.2	-4.5	-4.5	-4.4	-4.2	-4.3	-4.7	-4.6	-3.6	-3.2	-3.0	-2.6	-4.9	-2.6
4-Feb	-1.5	-0.7	-0.2	-0.1	0.4	0.4	1.0	0.9	0.8	2.5	5.4	7.1	8.5	9.5	9.6	9.2	7.3	5.1	3.4	1.6	-2.0	-3.2	-3.7	-4.5	2.4	9.6
5-Feb	-5.0	-5.6	-7.7	-9.2	-10.9	-12.2	-13.2	-14.3	-14.9	-15.1	-14.8	-14.1	-12.9	-11.7	-10.7	-10.6	-11.0	-12.9	-13.1	-12.9	-12.9	-13.3	-13.7	-13.8	-11.9	-5.0
6-Feb	-13.7	-13.5	-13.6	-13.4	-13.4	-13.2	-13.1	-12.7	-12.4	-11.9	-11.1	-10.5	-9.9	-9.2	-8.6	-8.3	-8.4	-9.3	-10.2	-10.8	-10.9	-11.1	-11.9	-13.6	-11.4	-8.3
7-Feb	-14.3	-13.0	-11.6	-10.8	-10.5	-10.1	-9.9	-10.5	-11.6	-12.5	-13.4	-13.6	-13.6	-13.7	-13.9	-14.2	-14.7	-15.2	-15.3	-15.3	-15.3	-15.3	-15.2	-15.1	-13.3	-9.9
8-Feb	-14.9	-14.5	-14.5	-13.9	-13.5	-13.6	-13.4	-13.4	-13.1	-12.5	-11.6	-10.5	-9.4	-9.1	-9.0	-8.6	-9.1	-10.6	-11.0	-11.2	-11.4	-11.6	-12.0	-12.8	-11.9	-8.6
9-Feb	-13.5	-13.9	-13.7	-12.8	-12.7	-12.6	-12.4	-12.6	-12.9	-13.1	-13.4	-13.0	-13.0	-12.9	-12.8	-13.3	-14.2	-14.7	-15.1	-15.6	-15.9	-16.1	-16.4	-16.5	-13.9	-12.4
10-Feb	-16.7	-16.8	-16.8	-16.7	-16.7	-16.6	-16.3	-16.3	-16.1	-14.7	-12.2	-10.1	-7.2	-6.9	-6.5	-5.1	-5.6	-7.0	-7.3	-5.2	-4.8	-5.4	-5.2	-5.0	-10.7	-4.8
11-Feb	-5.4	-5.9	-6.2	-6.4	-6.0	-6.4	-7.4	-7.3	-7.0	-5.4	-3.4	-1.4	0.8	2.3	3.3	3.0	1.4	-0.9	-2.1	-1.3	-0.6	-1.0	-0.8	-1.4	-2.7	3.3
12-Feb	-2.0	-0.9	-0.3	-1.1	-1.9	-2.2	-2.7	-3.3	-3.4	-1.1	1.7	3.3	4.4	4.2	4.5	4.7	4.7	3.8	3.4	3.2	4.0	4.2	3.9	3.0	1.4	4.7
13-Feb	2.3	1.5	1.4	1.1	0.5	-0.4	-1.2	-1.8	-1.9	-0.1	1.5	2.4	3.4	4.2	4.6	4.4	3.2	-0.7	-1.2	-0.9	-3.2	-4.8	-6.6	-6.8	0.1	4.6
14-Feb	-7.2	-8.2	-8.4	-10.4	-11.8	-12.3	-13.1	-13.7	-14.0	-10.3	-4.5	-0.8	1.1	2.4	3.0	2.3	0.7	-1.8	-1.9	-1.4	-2.2	-3.0	-3.3	-3.7	-5.1	3.0
15-Feb	-3.3	-4.0	-4.7	-9.2	-11.7	-14.3	-15.7	-16.5	-16.4	-16.1	-15.4	-14.6	-14.3	-13.8	-13.7	-13.2	-13.8	-16.3	-19.3	-21.1	-23.2	-24.9	-26.3	-27.8	-15.4	-3.3
16-Feb	-28.5	-29.5	-30.2	-30.9	-31.2	-31.7	-31.6	-31.7	-30.1	-23.9	-21.0	-19.9	-18.7	-17.7	-17.7	-17.8	-18.9	-21.1	-22.0	-22.4	-22.8	-23.0	-23.7	-24.2	-24.6	-17.7
17-Feb	-24.8	-25.0	-25.5	-26.0	-26.2	-26.8	-27.3	-27.7	-28.1	-27.6	-27.0	-26.5	-26.1	-26.1	-26.5	-26.9	-27.4	-28.0	-28.2	-28.5	-28.9	-29.4	-29.8	-30.1	-27.3	-24.8
18-Feb	-30.3	-30.6	-30.8	-30.9	-31.3	-31.6	-31.8	-31.8	-31.8	-31.6	-31.3	-30.9	-30.7	-30.6	-30.5	-30.3	-30.5	-30.7	-31.9	-34.0	-35.7	-37.0	-38.1	-38.9	-32.2	-30.3
19-Feb	-39.5	-39.7	-39.8	-38.5	-36.2	-34.2	-33.9	-35.1	-35.6	-32.5	-28.0	-25.2	-23.1	-20.7	-19.3	-19.1	-19.3	-21.0	-24.2	-23.4	-23.4	-24.8	-25.3	-24.5	-28.6	-19.1
20-Feb	-24.7	-26.1	-29.0	-28.9	-28.9	-30.9	-31.4	-31.8	-30.9	-23.4	-18.4	-15.8	-14.1	-13.3	-12.3	-12.6	-14.5	-16.8	-19.5	-21.4	-21.2	-22.5	-23.7	-24.5	-22.4	-12.3
21-Feb	-25.2	-25.5	-26.0	-26.0	-25.8	-25.6	-24.5	-23.9	-22.9	-21.9	-21.2	-19.4	-18.0	-17.7	-17.9	-18.0	-18.4	-18.9	-19.5	-20.6	-21.9	-23.1	-23.9	-25.0	-22.1	-17.7
22-Feb	-25.7	-26.2	-26.7	-27.0	-27.1	-27.2	-27.2	-27.5	-27.7	-26.9	-25.5	-22.9	-19.7	-19.3	-19.0	-18.6	-18.5	-18.9	-19.1	-19.2	-19.3	-19.3	-19.5	-19.6	-22.8	-18.5
23-Feb	-19.8	-20.0	-20.3	-20.5	-21.0	-21.5	-21.5	-21.9	-21.2	-20.5	-18.4	-16.7	-15.3	-15.3	-14.6	-14.8	-15.1	-15.6	-16.9	-16.7	-16.5	-16.6	-16.7	-16.9	-18.1	-14.6
24-Feb	-17.8	-20.5	-22.3	-22.2	-21.0	-21.2	-21.7	-22.5	-21.9	-18.5	-15.7	-14.3	-12.9	-11.5	-10.4	-10.0	-10.9	-13.9	-17.1	-17.5	-15.5	-14.9	-13.9	-13.6	-16.7	-10.0
25-Feb	-13.4	-13.3	-13.2	-13.3	-13.8	-14.9	-15.4	-16.1	-15.5	-13.3	-10.3	-7.9	-6.5	-3.9	-3.4	-3.4	-3.6	-6.1	-8.4	-8.8	-10.3	-11.3	-11.7	-12.7	-10.4	-3.4
26-Feb	-13.4	-14.4	-15.3	-16.0	-16.2	-16.5	-16.8	-17.0	-17.0	-16.9	-16.7	-16.0	-15.3	-13.8	-14.1	-14.7	-16.5	-17.7	-18.6	-19.1	-19.7	-20.9	-21.6	-22.0	-16.9	-13.4
27-Feb	-22.9	-24.6	-26.4	-28.0	-30.6	-32.2	-33.2	-34.3	-31.5	-29.7	-27.8	-26.7	-25.6	-24.6	-23.4	-22.6	-23.1	-25.2	-28.7	-31.4	-33.5	-35.0	-36.0	-36.5	-28.9	-22.6
28-Feb	-37.4	-38.1	-38.9	-38.5	-37.8	-37.8	-37.6	-35.8	-31.1	-27.0	-22.1	-19.1	-16.8	-15.4	-14.2	-14.2	-13.8	-15.6	-17.0	-17.4	-17.8	-15.9	-16.3	-16.9	-24.7	-13.8
	-15.9	-16.3	-16.7	-17.0	-17.3	-17.6	-17.8	-18.1	-17.7	-16.1	-14.3	-12.9	-11.6	-10.8	-10.4	-10.4	-11.0	-12.4	-13.5	-13.9	-14.4	-14.9	-15.3	-15.7	Diurnal Average	
	2.3	1.5	1.4	1.1	0.5	0.4	1.0	0.9	0.8	2.5	5.4	7.1	8.5	9.5	9.6	9.2	7.3	5.1	3.4	3.2	4.0	4.2	3.9	3.0	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Mackay River - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	189	28.13	28.13
-20 - 0	431	64.14	92.26
0 - 10	52	7.74	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 2m (RH2) - %

Mackay River - February 2026

Maximum Value: 97.5 % on Feb 2 19:00

Maximum Daily Average: 94.1 % on Feb 3

Minimum Value: 34.4 % on Feb 13 16:00

Minimum Daily Average: 48.7 % on Feb 13

Maximum Diurnal Average: 80.5 % at hour 9

Minimum Diurnal Average: 68.9 % at hour 15

Monthly Average: 76.84 %

Percentiles: P_1 = 42.7 P_{10} = 59.3 Q_1 = 68.9 Median = 78.4 Q_3 = 86.9 P_{90} = 90.2 P_{99} = 96.0

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

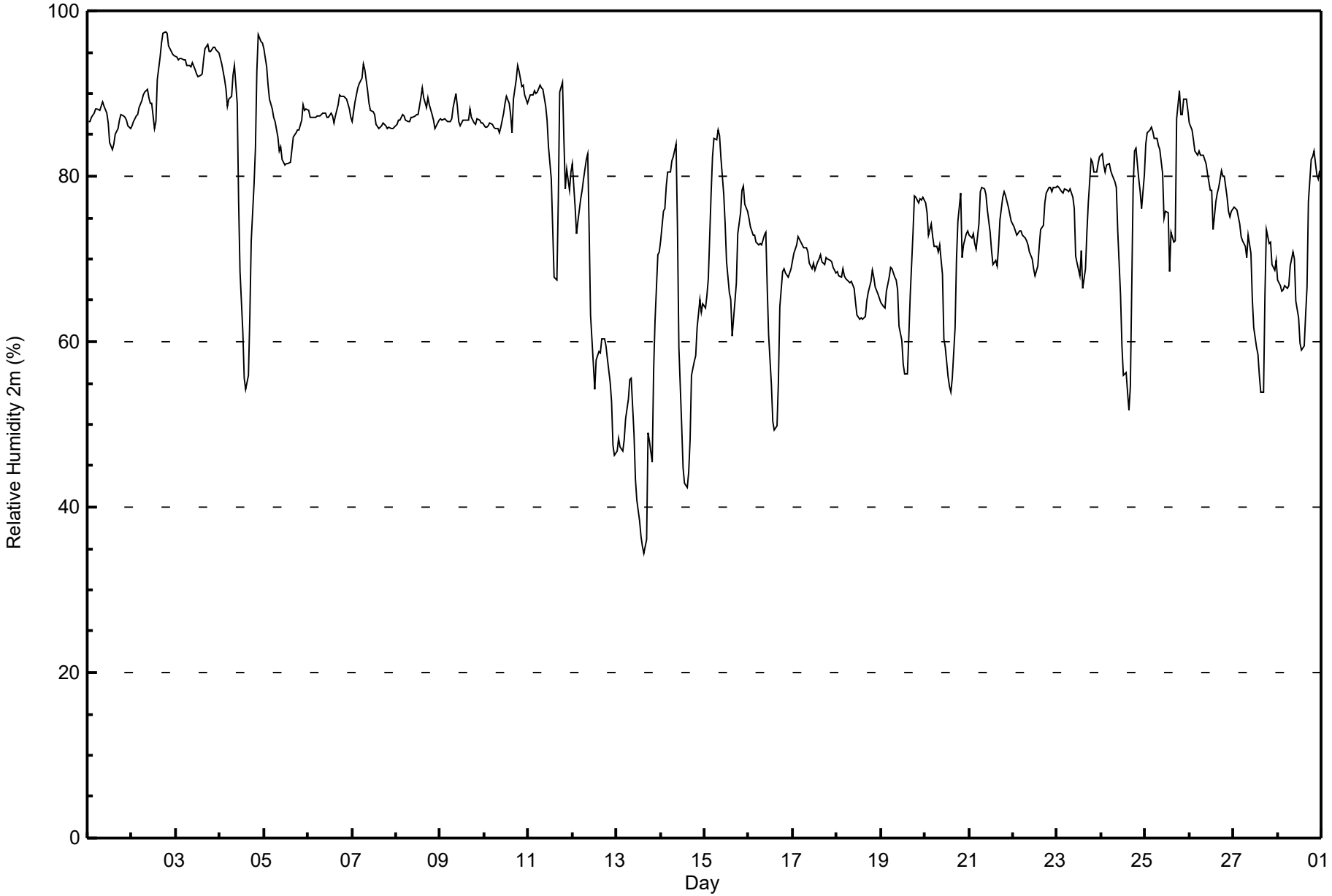
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	86.7	86.7	87.1	87.7	88.2	88.2	87.9	88.5	89.0	88.5	87.7	86.4	84.1	83.2	83.8	85.2	85.8	86.8	87.4	87.4	87.1	86.8	86.1	85.8	86.7	89.0
2-Feb	86.2	86.7	87.2	87.5	88.4	89.2	89.9	90.2	90.5	89.5	88.8	88.8	85.8	86.6	91.7	94.3	96.2	97.3	97.5	97.4	95.8	95.2	94.8	94.6	91.2	97.5
3-Feb	94.4	94.0	94.2	94.3	94.0	94.1	93.4	93.4	93.2	93.8	92.9	92.4	92.0	92.2	92.4	94.0	95.4	96.0	95.0	95.2	95.6	95.5	95.3	94.8	94.1	96.0
4-Feb	94.3	93.5	91.8	90.6	88.4	89.4	89.7	92.1	93.4	88.8	76.9	68.4	61.1	55.5	54.2	55.9	63.0	72.3	78.9	83.4	92.8	97.2	96.3	96.1	81.8	97.2
5-Feb	95.4	93.2	91.1	89.4	88.1	87.2	86.6	84.8	83.1	83.6	82.0	81.4	81.6	81.4	81.7	83.3	84.8	85.3	85.6	85.7	86.7	88.6	87.9	88.2	86.1	95.4
6-Feb	87.9	87.1	87.1	87.1	87.2	87.2	87.3	87.5	87.6	87.6	87.2	87.2	87.6	87.3	86.4	87.2	88.6	89.8	89.7	89.7	89.6	89.4	88.1	87.2	87.9	89.8
7-Feb	86.6	89.0	89.8	90.6	91.1	91.8	93.6	92.8	90.4	88.8	87.9	87.8	87.5	86.2	85.8	86.0	86.2	86.5	86.1	85.8	86.0	85.8	85.7	86.0	88.1	93.6
8-Feb	86.3	86.8	86.8	87.4	87.3	86.8	86.7	86.6	87.2	87.1	87.3	87.4	87.5	89.5	90.7	89.5	88.3	89.5	88.6	87.5	86.8	85.7	86.1	86.8	87.5	90.7
9-Feb	87.0	86.8	87.0	86.8	86.7	86.7	86.9	88.3	90.1	88.4	86.7	86.1	86.8	86.7	86.8	86.8	88.1	87.1	86.4	86.2	86.9	86.8	86.4	86.5	87.0	90.1
10-Feb	85.9	85.9	86.2	86.4	86.3	85.9	85.7	85.7	85.2	86.0	87.7	88.9	89.7	88.9	87.4	85.3	89.3	91.7	93.4	92.8	90.8	91.0	89.8	88.8	88.1	93.4
11-Feb	89.3	89.8	89.9	90.4	90.0	90.1	91.0	90.6	90.5	88.5	86.7	83.6	79.7	73.7	67.7	67.4	77.2	90.2	91.4	84.4	78.6	80.8	78.2	80.5	84.2	91.4
12-Feb	81.5	76.3	73.0	74.6	77.2	78.3	79.7	82.0	82.7	73.5	63.2	57.3	54.2	57.8	58.7	58.6	60.4	60.3	59.5	57.9	55.0	52.8	47.5	46.3	65.3	82.7
13-Feb	46.8	48.4	47.2	46.7	48.1	50.7	53.0	55.5	55.5	48.8	43.5	40.8	38.3	36.4	35.2	34.4	36.1	49.0	47.9	45.4	56.6	62.6	70.6	70.9	48.7	70.9
14-Feb	72.1	75.7	76.1	78.8	80.5	80.6	81.9	82.4	83.9	73.7	59.3	49.8	44.8	42.8	42.4	44.2	48.1	56.0	57.6	58.3	61.7	65.0	63.5	64.6	64.3	83.9
15-Feb	64.1	65.6	67.6	77.9	82.4	84.7	84.4	85.7	84.9	82.1	77.9	74.3	69.7	65.9	65.0	60.6	65.0	67.2	73.0	75.6	78.3	78.7	76.6	75.7	74.3	85.7
16-Feb	74.9	73.8	72.8	72.8	72.1	71.6	71.9	71.6	72.8	73.2	66.5	60.8	54.7	50.4	49.3	49.8	55.2	64.2	68.4	68.8	68.3	67.8	68.2	68.8	66.2	74.9
17-Feb	70.6	71.1	71.7	72.7	72.0	71.7	71.4	71.3	70.9	69.4	68.8	69.5	68.6	69.7	70.0	70.5	69.7	69.4	70.2	69.9	69.9	69.6	68.9	68.3	70.3	72.7
18-Feb	68.5	67.9	67.7	68.8	68.0	67.6	67.2	67.1	67.3	66.5	64.8	63.2	62.7	62.9	62.7	63.0	64.9	66.0	67.3	68.6	67.9	66.6	65.8	65.2	66.2	68.8
19-Feb	64.8	64.2	64.1	66.1	67.8	68.9	68.9	67.9	67.4	66.3	61.9	60.1	57.4	56.0	56.1	60.8	65.5	73.2	77.6	77.4	76.7	77.2	77.2	77.4	67.5	77.6
20-Feb	76.7	75.5	72.9	74.3	72.7	71.6	71.6	70.9	71.8	68.1	60.4	59.3	55.8	54.7	53.8	55.6	61.7	70.0	74.5	77.9	70.1	71.8	73.0	73.4	68.3	77.9
21-Feb	73.0	72.6	73.0	71.8	71.2	74.2	78.1	78.7	78.5	77.8	76.0	73.2	71.1	69.3	69.8	69.1	71.5	74.7	77.5	78.1	77.7	76.3	75.4	74.6	74.3	78.7
22-Feb	73.9	73.4	72.9	73.3	73.4	72.9	72.6	72.2	71.7	70.9	70.0	68.9	68.0	69.1	71.4	73.5	74.1	76.7	78.0	78.6	78.6	78.2	78.6	78.7	73.7	78.7
23-Feb	78.9	78.6	78.2	78.0	78.5	78.4	78.1	78.4	77.4	76.2	70.4	69.5	67.9	70.9	66.4	68.9	73.1	76.9	82.0	81.7	80.5	80.5	81.6	82.3	76.4	82.3
24-Feb	82.8	81.3	80.5	81.4	81.6	80.7	80.1	79.3	78.6	73.5	65.7	59.5	56.0	56.3	54.0	51.8	54.6	78.8	83.1	83.4	79.7	78.1	76.1	80.2	73.2	83.4
25-Feb	83.9	85.2	85.6	86.0	85.4	84.6	84.5	83.8	83.2	80.3	74.9	75.7	75.6	68.4	73.3	72.0	72.3	86.9	90.3	87.5	87.5	89.2	89.4	88.0	82.2	90.3
26-Feb	86.5	85.5	84.3	83.0	82.6	83.0	82.5	82.5	82.0	81.5	80.3	78.3	78.3	73.6	77.0	77.9	78.7	80.6	80.0	80.0	77.5	75.7	75.1	75.7	80.1	86.5
27-Feb	76.2	76.1	76.0	74.3	72.7	72.1	71.6	70.1	72.8	70.6	65.2	61.7	59.3	58.6	56.0	53.9	53.9	65.7	73.5	71.9	72.0	69.3	68.7	69.9	68.0	76.2
28-Feb	67.5	66.8	66.1	66.3	66.8	66.4	66.8	69.1	70.9	69.9	64.9	62.9	59.9	59.0	59.4	63.1	66.7	77.0	82.0	82.3	83.1	80.2	79.7	80.7	69.9	83.1
	79.4	79.2	78.9	79.5	79.6	79.8	80.1	80.3	80.5	78.3	74.5	72.3	70.2	69.0	68.9	69.4	71.9	77.3	79.4	79.2	79.2	79.4	79.0	79.1	Diurnal Average	
	95.4	94.0	94.2	94.3	94.0	94.1	93.6	93.4	93.4	93.8	92.9	92.4	92.0	92.2	92.4	94.3	96.2	97.3	97.5	97.4	95.8	97.2	96.3	96.1	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Mackay River - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	5	0.74	0.74
40 - 60	67	9.97	10.71
60 - 80	287	42.71	53.42
80 - 100	313	46.58	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Precipitation (PC) - mm

Mackay River - February 2026

Maximum Value: 1.5 mm on Feb 26 10:00

Maximum Daily Total: 5.3 mm on Feb 18

Minimum Value: 0.0 mm on Feb 1 01:00

Minimum Daily Total: 0.0 mm on Feb 1

Maximum Diurnal Total: 2.2 mm at hour 1

Minimum Diurnal Total: 0.4 mm at hour 13

Monthly Total: 30.49 mm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.1 P_{99} = 0.7

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

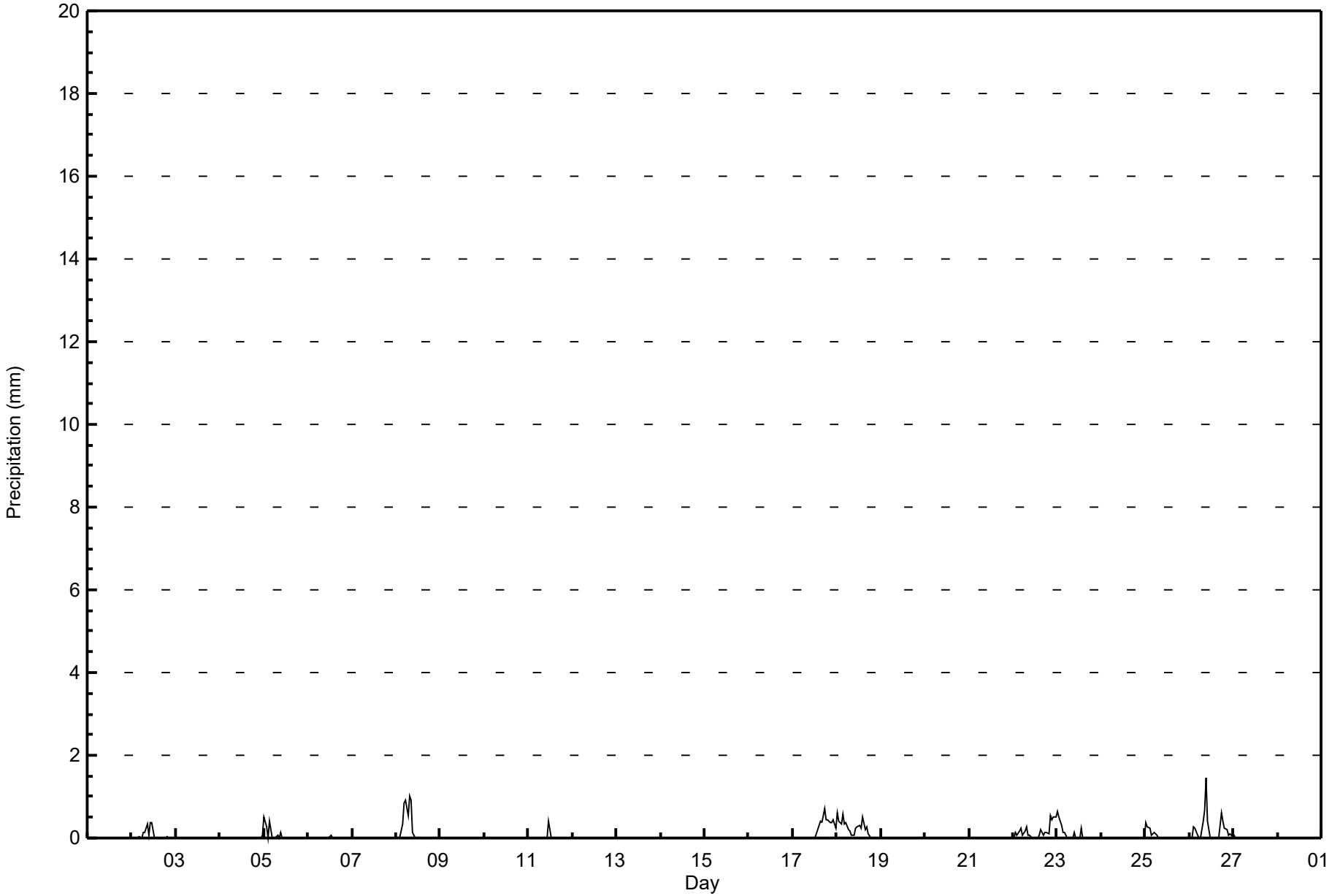
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-Feb	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.4	0.1	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.5	0.4
3-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
5-Feb	0.5	0.3	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.5
6-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
7-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-Feb	0.0	0.0	0.1	0.3	0.9	0.9	0.6	1.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	1.0
9-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
12-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.4	0.7	0.4	0.4	0.4	0.4	0.5	0.3	4.3	0.7
18-Feb	0.6	0.4	0.4	0.6	0.3	0.4	0.2	0.2	0.1	0.1	0.2	0.3	0.3	0.3	0.5	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.6
19-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-Feb	0.0	0.1	0.1	0.2	0.2	0.1	0.2	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.1	0.5	0.4	0.5	0.5	4.0	0.5
23-Feb	0.7	0.5	0.3	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.7
24-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-Feb	0.4	0.3	0.2	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	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.4
26-Feb	0.0	0.0	0.3	0.3	0.1	0.0	0.0	0.4	0.7	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.4	0.2	0.2	0.1	0.1	0.1	5.2	1.5
27-Feb	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
28-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2.2	1.6	1.3	1.9	1.8	1.5	1.2	2.0	2.1	2.1	1.0	1.1	0.4	0.7	0.9	0.8	0.7	1.6	1.0	0.8	1.1	0.9	1.1	0.9	Diurnal Average	
	0.7	0.5	0.4	0.6	0.9	0.9	0.6	1.0	0.9	1.5	0.4	0.4	0.3	0.3	0.5	0.4	0.4	0.7	0.4	0.4	0.5	0.4	0.5	0.5	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Precipitation (PC) - mm

Mackay River - February 2026



Concentration Ranges (mm)	Number of Hours	%	Cumulative %
0 - 0.3	636	94.64	94.64
0.4 - 0.5	24	3.57	98.21
0.6 - 0.7	7	1.04	99.26
0.8 - 1.4	4	0.60	99.85
1.5 - 10	0	0.00	99.85
> 10	0	0.00	99.85

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Mackay River - February 2026

Maximum Speed: 22 km/h on Feb 17 17:00

Maximum Daily Speed Average: 16.1 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 20 11:00

Minimum Daily Speed Average: 0.7 km/h on Feb 25

Maximum Diurnal Speed Average: 1.7 km/h at hour 18

Minimum Diurnal Speed Average: 0.7 km/h at hour 11

Monthly Average Velocity: 1.0 km/h 46.1 deg

Percentiles: P_1 = 1 P_{10} = 2 Q_1 = 4 Median = 6 Q_3 = 8 P_{90} = 11 P_{99} = 18

Hours in Service:	672
Hours of Data:	632
Hours of Missing Data:	40
Percent Operational Time:	94.1

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ESE3	ESE3	ESE5	ESE6	ESE6	ESE5	ESE6	ESE8	ESE8	ESE9	ESE7	ESE8	ESE9	ESE8	ESE8	ESE10	ESE8	ESE8	ESE8	ESE8	ESE8	ESE7	ESE7	ESE7	ESE7.1	ESE10
2-Feb	ESE7	ESE6	SE6	SE7	SE7	SE7	SE5	SE4	SSE4	S6	S5	S5	SSW5	SSW5	WSW6	WSW3	WSW3	W3	WNW4	WNW5	NW4	NNW5	NNW4	NNW4	S1.9	SE7
3-Feb	N4	N4	N3	NNW2	N2	NE2	NE3	SE4	ESE2	ESE4	SE6	SE6	SSE4	S5	SSW6	S7	S7	SSE7	SE6	SE7	SSE9	SSE10	SSE9	SSE9	SSE3.6	SSE10
4-Feb	S12	S11	S13	SSW12	SSW12	SSW10	SW8	SW6	SSW7	SW8	WSW9	WSW10	W10	W9	W10	W8	WSW5	WSW5	WSW4	N4	NE8	NE8	NE8	NE7	SW4.3	S13
5-Feb	NE8	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	NE8
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	ESE6	ESE7	ESE6	E4	UO	ENE0	ESE1	NW0	NW2	NW1	W1	----	ESE7
7-Feb	SSE0	W2	W2	NW4	N4	NNE5	NNE5	NNE8	NE8	NE7	NNE8	NNE7	NNE7	NNE7	NE8	NNE6	NNE6	NE7	NE6	NNE5	NE6	NE6	NE5	NNE5	NNE5.2	NNE8
8-Feb	NNE5	NE3	NE4	N4	NNW5	NNW4	NNW5	WNW5	WNW3	W4	W4	WNW5	WNW6	WNW7	WNW6	WNW7	NW7	NNW5	WNW6	WNW8	NW8	NW6	NW4	W1	NW4.4	WNW8
9-Feb	SSE0	SE2	SE1	SE4	ESE3	E4	ENE3	NE4	E4	ENE6	NE6	NE6	NE7	NE7	NE5	NNE8	NNE6	NE7	NE6	NNE6	NNE7	NE6	NE5	NNE5	NE4.4	NNE8
10-Feb	NNE5	NNE4	NNE3	NNE2	NNE2	NNE1	NE1	N1	UO	UO	SSE2	SE3	SSE4	S5	S6	S5	S5	SSE6	SSE6	S8	SSW8	S8	S9	S10	S3.1	S10
11-Feb	S8	S8	S7	SSW8	SSW8	S8	S7	S7	S7	S8	SSW8	SSW8	SW6	SW6	SW6	SW6	SSW6	SSW5	S6	SSW7	SSW7	S6	S7	S7	SSW6.8	S8
12-Feb	S7	SW6	WSW7	WSW6	SW7	WSW7	WSW6	WSW6	WSW5	WSW6	SW6	WSW7	SW8	SSW9	SSW8	SSW9	SSW9	S10	SSW12	SSW11	SW10	SW10	SW10	SW8	SW7.5	SSW12
13-Feb	SW10	SW10	WSW10	SW11	WSW10	WSW9	SW8	SW9	SW9	SW7	SW10	WSW11	WSW9	W9	W9	WSW9	WSW5	SSW4	SSW6	SSW7	SSW4	SSW5	SSW4	SSW5	SW7.6	SW11
14-Feb	SSW5	SSW5	SSW5	S4	S4	S4	S3	SE3	SE2	WSW0	WSW4	WSW6	WSW6	W6	WSW6	W5	WSW4	WSW3	W5	WNW6	W5	WSW3	W4	W5	WSW3.4	WSW6
15-Feb	WNW5	NW6	NNW5	NNE8	NNE7	NNE7	NNE5	NNE5	NNE5	NE6	NE5	NNE5	N5	N4	NNW6	N5	NNW4	NNE5	NE5	NE4	NE4	SE2	ESE2	SE2	NNE4.0	NNE8
16-Feb	SE2	SE2	SE2	SE2	SE2	SE2	ESE2	SE1	ESE2	ENE3	NE8	NE7	ENE7	ENE7	NNE10	NE7	NE8	NE8	NE8	NNE10	NNE11	NNE12	NNE13	NNE11	NE5.3	NNE13
17-Feb	NNE11	NNE13	NNE12	NNE13	NNE14	NNE15	NNE14	NNE15	NNE13	NNE16	NNE16	NNE16	NNE20	NNE17	N18	NNE17	NNE22	NNE21	NNE17	NNE17	NNE18	NNE19	NNE20	NNE18	NNE16.1	NNE22
18-Feb	NNE19	N17	N16	N14	NNE18	NNE17	NNE16	NNE14	NNE13	NNE12	NNE13	NNE11	NNE10	N10	NNE10	NNE7	NNE7	NNE5	NNE3	S1	SSE1	SSE2	SSE2	SE3	NNE9.4	NNE19
19-Feb	SSE3	SE3	SSE4	S6	S6	S5	S4	S5	S5	SSW5	S7	SSW8	SSW8	SSW7	SSW7	SSW9	SSW7	S5	S5	S6	S6	S6	S7	S8	S5.6	SSW9
20-Feb	S7	S6	SSE4	S6	SSE4	SE3	SSE4	SSE3	UO	NNW1	WSW0	N1	NNW4	NW6	NNE8	NNE9	NNE8	NNE6	NE4	NNE5	NE8	NNE7	NNE8	NNE7	NE2.2	NNE9
21-Feb	NNE7	NNE7	NNE7	NNE9	NNE10	NNE9	NE7	NE4	NE4	NNE7	NNE8	NE7	NE11	NE11	NE9	NNE10	NE10	NE7	NE7	NE8	NE9	NE9	NE9	NE9	NNE8.2	NE11
22-Feb	NE9	NE9	NNE9	NNE8	NNE8	NNE8	NE7	NE8	NE8	NNE7	NNE6	NE6	E9	ESE12	E10	E8	E9	E8	E7	E8	ESE8	ESE8	ESE8	ESE8	ENE6.7	ESE12
23-Feb	ESE6	ESE7	ESE7	E3	ESE2	SE4	SE2	E2	WNW1	W3	W4	W4	WNW4	WNW4	W5	W5	WSW4	WSW3	SSW2	WSW3	SW4	WSW3	WSW4	W3	SW1.2	ESE7
24-Feb	WSW2	WSW2	WSW2	WSW3	WSW4	WSW4	SW5	SW4	WSW3	WSW5	W4	W6	WSW6	WSW5	WSW6	WSW5	WSW4	SE2	SE4	SE4	SE5	SE6	SE7	ESE6	SW2.6	SE7
25-Feb	ESE6	ESE6	ESE5	ENE2	NNE3	NW4	NNW2	SW1	SSW2	SSW3	SSW3	SSW5	SSW7	SW5	W5	WSW4	SW2	ENE1	ESE1	NE6	NE7	NE6	NE8	NE8	E0.7	NE8
26-Feb	NE10	NNE10	NE11	NE10	NE9	NE10	NNE10	NNE10	NE10	NE9	NNE11	NNE13	N12	N13	N11	N10	NNE12	N9	N10	NNW10	NNW12	NW12	NW10	NNW7	NNE9.5	N13
27-Feb	NW6	NNW4	NE4	NNE3	NNE1	NE1	ENE1	NNE1	NNE3	NNE5	NNE2	NNW5	NNW6	NW6	NW5	N6	ENE4	ESE3	SE3	ESE3	SE1	SE2	ESE3	SSE1	NNE1.9	NW6
28-Feb	SSE2	SE3	SE3	SSE4	S5	S5	SSE5	S6	S6	S7	SSW7	S10	SSW11	S12	SSW10	SSW9	SSW9	S2	SSE3	S5	S7	S10	S12	S11	S6.6	S12
	ENE1.4	ENE1.1	ENE1.3	ENE0.9	NE1.0	NE1.2	NE1.2	ENE1.1	ENE1.3	NE1.1	NNE0.7	NNW0.8	NNW1.0	NNW0.7	NNW1.3	NNW1.0	NNE1.0	ENE1.7	ENE1.3	NE1.1	NE1.5	ENE1.2	ENE1.3	E1.2	Diurnal Average	
	NNE19	N17	NNE16	N14	NNE18	NNE17	NNE16	NNE15	NNE13	NNE16	NNE16	NNE16	NNE20	NNE17	N18	NNE17	NNE22	NNE21	NNE17	NNE17	NNE18	NNE19	NNE20	NNE18	Diurnal Maximum	

M - Maintenance UO - Unstable Operation

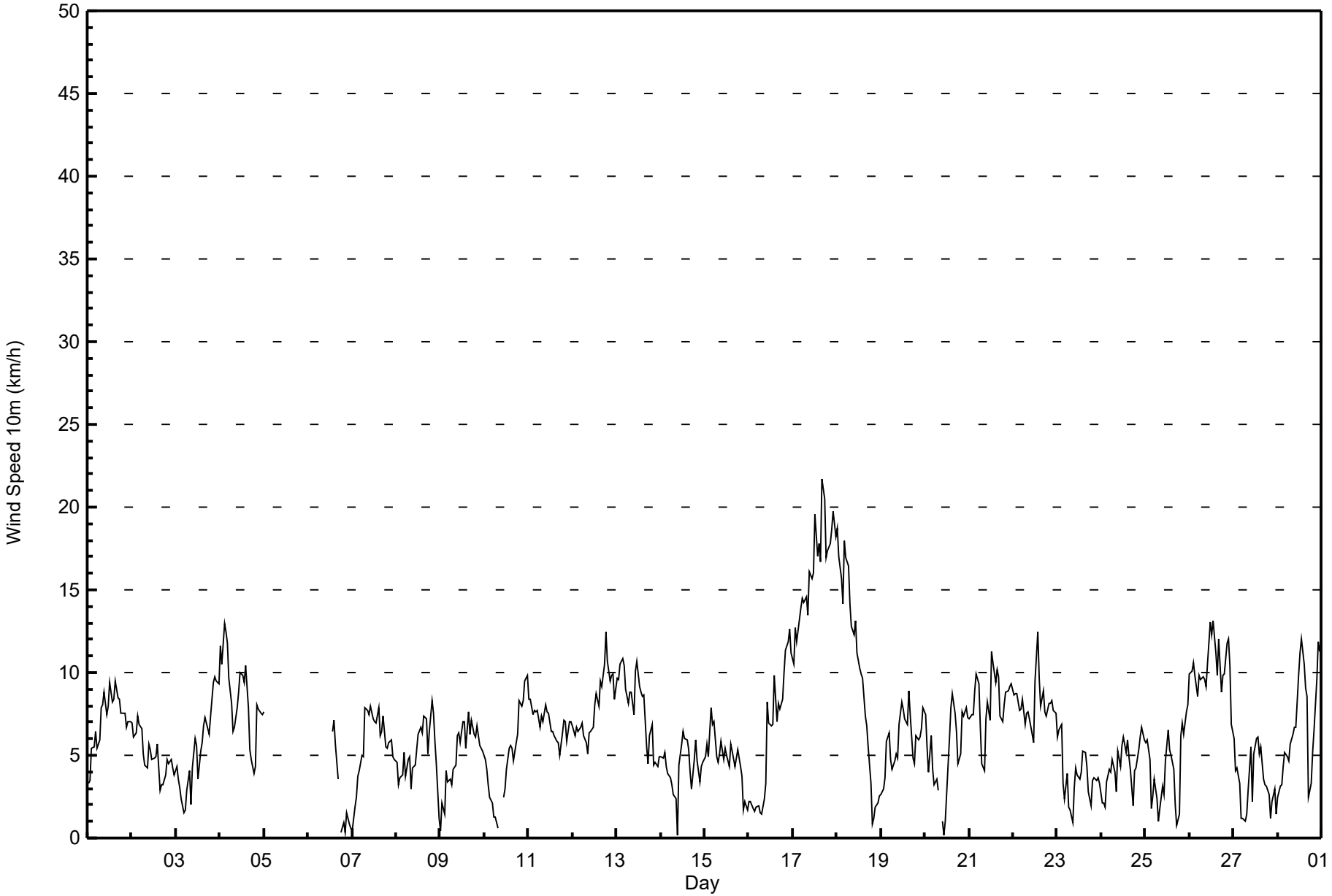
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Mackay River - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	264	41.77	41.77
6 - 11	318	50.32	92.09
12 - 19	46	7.28	99.37
20 - 28	4	0.63	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 632

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Mackay River - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	12	27	18	7	5	17	31	21	21	17	5	31	20	9	7	16	264
6 - 11	6	53	55	3	7	35	10	8	40	30	23	21	8	7	8	4	318
12 - 19	5	31	0	0	0	1	0	0	4	3	0	0	0	0	1	1	46
20 - 28	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	23	115	73	10	12	53	41	29	65	50	28	52	28	16	16	21	632

Total Number of Valid Hours: 632

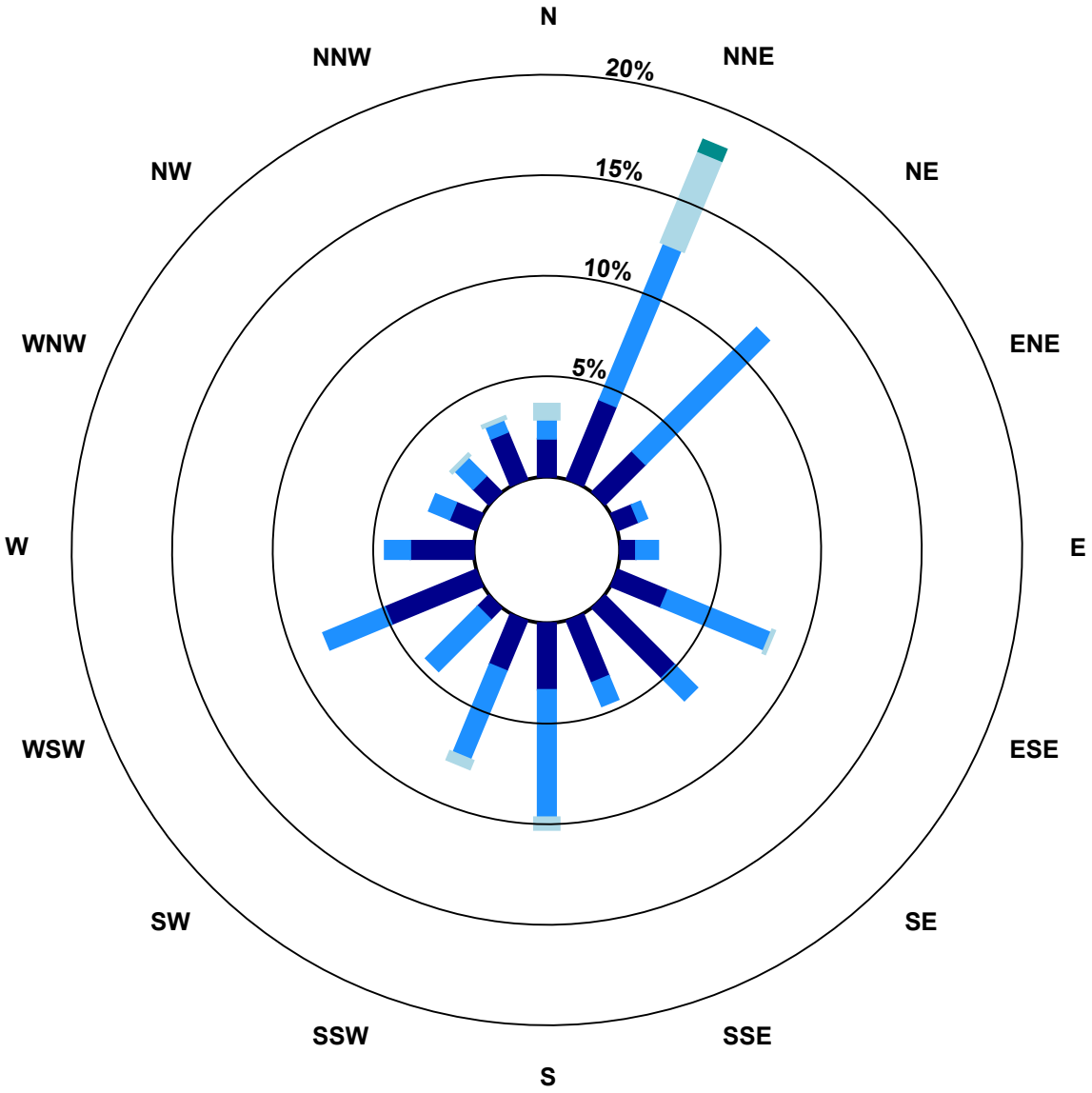
Total Number of Hours: 672

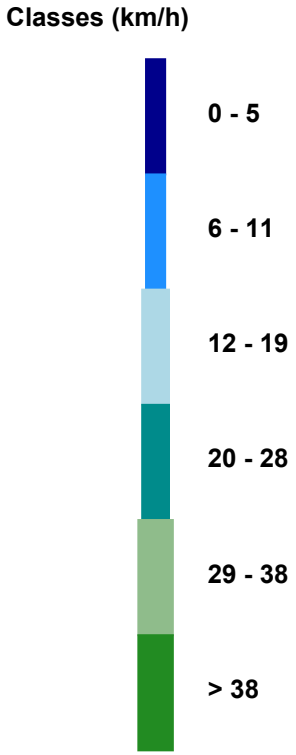
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Mackay River





Total Number of Valid Hours: 632

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Mackay River - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 7 km/h on Feb 17 17:00

Minimum Value: 0 km/h on Feb 16 05:00

Percentiles: $P_1 = 0$ $P_{10} = 1$ $Q_1 = 1$ Median = 2 $Q_3 = 3$ $P_{90} = 4$ $P_{99} = 6$

Hours in Service:	672
Hours of Data:	632
Hours of Missing Data:	40
Hours of Calibration:	0
Percent Operational Time:	94.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	1	1	1	2	2	1	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2	2	3
2-Feb	2	2	2	2	2	2	1	1	1	2	1	2	2	2	2	1	1	2	1	2	1	1	1	1	2
3-Feb	1	1	1	1	1	1	1	1	1	1	2	2	1	2	2	2	2	2	2	2	3	3	3	3	3
4-Feb	3	3	4	3	4	3	3	2	2	3	3	4	4	4	4	3	2	2	1	3	3	3	2	2	4
5-Feb	2	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	2
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	2	2	1	2	UO	1	1	1	1	1	1	2
7-Feb	1	2	1	1	1	2	2	3	3	2	2	2	2	2	3	2	2	2	2	2	2	2	1	1	3
8-Feb	1	1	1	1	2	1	1	2	1	2	2	2	2	2	2	2	3	1	3	3	2	2	2	1	3
9-Feb	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
10-Feb	1	1	1	1	1	1	1	1	UO	UO	1	1	2	2	2	2	1	1	2	2	3	2	2	2	3
11-Feb	2	2	2	2	2	2	1	1	2	2	2	2	2	2	3	2	1	1	1	2	2	1	1	1	3
12-Feb	2	2	2	2	2	3	2	2	2	2	2	3	3	3	2	3	4	3	4	3	3	3	4	3	4
13-Feb	3	3	5	4	4	4	3	3	3	3	4	4	4	4	3	4	3	1	1	2	1	1	1	1	5
14-Feb	2	1	1	1	1	2	1	1	1	1	2	2	3	2	3	2	2	1	2	2	1	1	2	2	3
15-Feb	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	1	1	1	1	3
16-Feb	0	0	1	1	0	1	1	1	1	2	3	2	2	2	3	3	2	3	3	3	3	4	4	4	4
17-Feb	3	4	4	4	5	5	5	5	5	5	6	6	7	5	6	6	7	7	6	6	6	6	7	6	7
18-Feb	6	6	6	5	6	6	5	5	5	4	5	4	4	3	3	2	2	2	1	1	1	0	0	0	6
19-Feb	1	0	1	1	1	1	1	1	1	2	2	3	3	3	3	3	3	1	1	1	1	1	1	2	3
20-Feb	2	2	1	2	2	1	1	1	UO	1	1	1	2	2	2	2	2	2	1	2	3	3	3	2	3
21-Feb	2	2	2	3	3	3	3	1	2	2	3	3	4	4	3	3	3	3	2	3	3	3	3	4	4
22-Feb	3	3	3	3	3	3	2	3	2	2	2	2	4	4	3	3	3	3	3	3	3	2	2	2	4
23-Feb	2	2	2	1	1	1	2	1	1	1	2	1	2	2	2	2	2	2	1	1	2	1	2	1	2
24-Feb	1	1	1	1	1	1	1	1	1	2	2	2	3	2	3	2	2	1	1	1	1	1	2	1	3
25-Feb	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	2	2	2	3	2	3
26-Feb	3	4	3	3	3	3	3	3	3	3	4	4	4	5	4	4	4	3	3	4	4	4	3	2	5
27-Feb	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2
28-Feb	1	1	1	1	1	1	2	1	1	2	2	3	4	4	4	3	3	2	1	1	1	2	3	2	4
	6	6	6	5	6	6	5	5	5	5	6	6	7	5	6	6	7	7	6	6	6	6	7	6	
	Diurnal Maximum																								

M - Maintenance UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Mackay River - February 2026

Direction of Maximum Speed: 14 deg on Feb 17 17:00
Direction of Maximum Daily Speed Average: 18.5 deg on Feb 17

Direction of Minimum Speed: 246 deg on Feb 20 11:00
Direction of Minimum Daily Speed Average: 0.7 deg on Feb 25

Monthly Average Direction: 46.1 deg

Hours in Service:	672
Hours of Data:	632
Hours of Missing Data:	40
Percent Operational Time:	94.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	102	121	118	118	112	116	112	114	110	109	117	113	109	103	105	106	106	110	116	110	111	108	107	111	110.6
2-Feb	118	123	127	128	128	134	140	144	157	182	187	190	207	206	237	242	241	275	288	301	323	332	340	347	173.0
3-Feb	4	351	357	347	349	36	34	140	111	117	141	145	167	179	201	191	182	149	133	135	148	155	151	163	149.4
4-Feb	170	176	186	194	208	209	224	226	204	225	238	256	267	277	280	268	256	250	258	8	36	39	36	44	229.0
5-Feb	36	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	104	111	118	92	UO	72	104	312	323	322	280	--
7-Feb	157	273	275	317	351	22	28	31	34	40	24	21	28	26	38	28	28	36	39	33	41	35	35	28	26.9
8-Feb	32	34	36	351	334	334	331	300	294	278	274	285	282	286	287	295	307	330	301	294	314	313	310	267	309.1
9-Feb	159	145	129	134	106	94	59	38	89	61	41	53	35	35	49	25	30	37	37	30	28	36	35	32	47.4
10-Feb	20	29	24	24	27	23	34	8	UO	UO	148	146	157	179	169	171	179	163	166	181	195	182	184	190	168.8
11-Feb	186	185	190	192	194	186	177	186	183	190	192	200	216	216	232	230	205	199	184	192	199	190	188	181	194.4
12-Feb	186	224	238	238	233	239	239	248	243	238	235	242	223	197	193	199	212	190	193	199	217	223	226	223	217.8
13-Feb	218	229	238	235	241	239	231	229	231	236	232	251	257	259	260	252	246	194	207	209	198	208	206	204	233.4
14-Feb	201	213	203	180	176	185	184	134	146	255	250	238	239	270	251	264	242	254	265	284	280	257	264	279	237.3
15-Feb	296	307	341	18	26	23	24	24	26	44	37	14	10	4	346	4	345	31	38	40	37	131	116	139	15.7
16-Feb	144	135	134	140	139	125	121	125	106	75	47	55	68	60	22	42	39	38	35	28	30	30	27	24	44.9
17-Feb	22	23	29	26	24	23	26	25	23	26	27	16	17	17	10	14	14	17	14	14	15	13	13	14	18.5
18-Feb	14	10	11	8	13	12	12	15	16	13	15	14	22	11	18	13	25	22	29	177	160	147	151	145	15.4
19-Feb	161	144	155	180	176	179	175	179	174	195	188	196	208	212	211	197	195	179	171	182	188	182	183	188	186.9
20-Feb	188	190	154	178	163	142	161	148	UO	328	246	6	348	324	14	19	31	30	38	30	34	21	24	23	38.1
21-Feb	22	23	24	24	24	29	45	34	36	29	24	46	40	40	35	32	34	34	38	39	35	38	35	35	33.1
22-Feb	38	36	33	26	27	30	36	34	36	31	30	35	97	113	100	91	96	93	89	98	103	109	106	108	69.0
23-Feb	106	108	117	93	114	132	144	99	301	279	273	277	300	301	270	265	256	247	209	238	236	248	252	262	232.2
24-Feb	254	245	244	244	239	238	227	221	254	255	260	261	257	243	253	248	239	146	139	134	138	128	131	120	217.2
25-Feb	118	113	111	69	12	326	338	234	203	196	198	208	196	216	262	252	230	62	117	35	41	42	41	38	82.2
26-Feb	34	33	39	40	38	40	27	28	35	37	21	14	2	10	5	6	14	6	10	343	337	319	323	338	12.3
27-Feb	323	341	36	32	19	45	73	18	29	24	20	330	336	319	320	6	61	123	133	110	126	125	119	159	14.1
28-Feb	152	143	137	156	171	172	161	172	174	186	192	182	204	186	194	201	195	177	165	173	175	186	187	190	182.6
	69.7	68.7	76.3	70.9	49.9	50.2	48.6	58.4	66.2	45.1	19.0	330.7	333.5	336.4	330.0	340.6	22.7	56.6	75.3	55.8	48.3	59.3	67.5	80.8	
	Diurnal Average																								

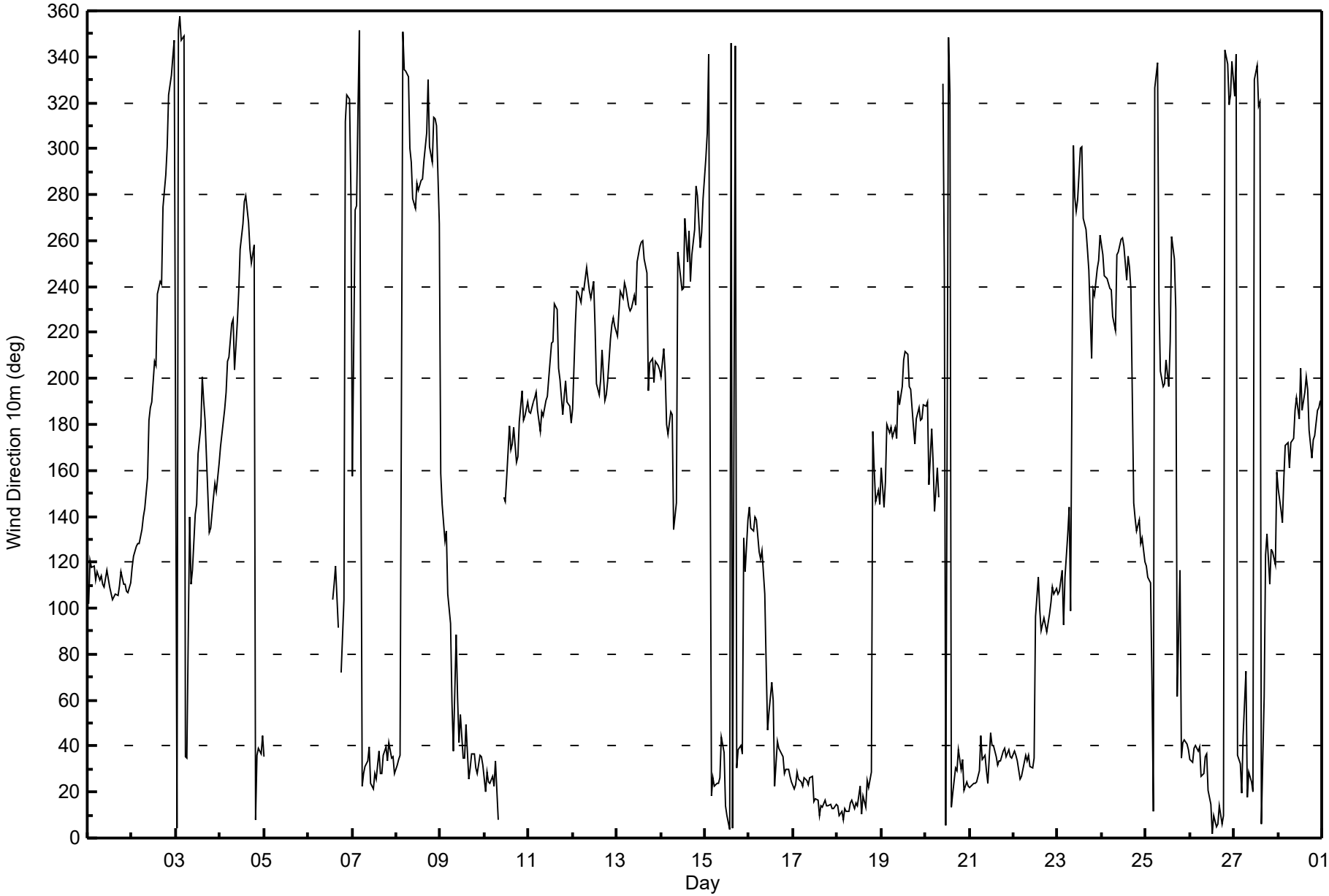
M - Maintenance UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Mackay River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Mackay River - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 108 deg on Feb 20 11:00

Minimum Value: 7 deg on Feb 18 23:00

Percentiles: P_1 = 10 P_{10} = 17 Q_1 = 21 Median = 25 Q_3 = 33 P_{90} = 45 P_{99} = 72

Hours in Service:	672
Hours of Data:	632
Hours of Missing Data:	40
Hours of Calibration:	0
Percent Operational Time:	94.1

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	31	23	21	23	17	19	17	18	17	17	22	19	19	22	21	19	19	18	18	17	17	17	18	17	31
2-Feb	17	18	19	19	18	19	22	23	23	21	22	27	40	30	37	50	44	43	28	23	21	21	21	21	50
3-Feb	24	26	32	37	48	24	30	35	37	23	22	21	40	28	34	27	24	27	22	23	23	24	24	26	48
4-Feb	25	24	22	22	24	22	30	29	22	27	42	49	46	38	33	44	42	36	34	68	25	27	21	25	68
5-Feb	24	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	24
6-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	M	28	21	19	32	UO	45	28	73	53	27	63	73
7-Feb	83	56	40	37	24	23	25	23	25	23	24	27	25	27	27	27	26	24	24	26	22	31	25	25	83
8-Feb	26	42	27	26	22	20	18	22	30	35	44	33	33	32	33	30	31	23	27	25	20	21	20	57	57
9-Feb	92	20	23	19	26	28	30	26	42	27	31	34	27	27	33	25	28	26	22	26	24	23	22	25	92
10-Feb	23	25	23	22	28	51	34	45	UO	UO	27	31	31	30	24	29	24	20	20	17	19	14	15	15	51
11-Feb	16	16	15	17	18	16	14	15	14	16	19	23	27	29	42	37	17	15	12	14	18	16	15	13	42
12-Feb	16	32	37	44	33	43	45	45	50	37	34	40	38	24	22	23	29	19	22	22	27	30	34	31	50
13-Feb	26	30	42	38	41	44	32	31	35	40	34	44	48	47	46	48	45	19	17	19	18	17	14	17	48
14-Feb	19	17	17	21	22	28	34	24	58	78	55	43	45	43	51	51	46	30	32	23	19	32	38	37	78
15-Feb	35	31	50	24	24	26	32	29	27	30	39	33	42	68	30	33	25	23	18	26	12	42	33	20	68
16-Feb	15	17	16	14	17	11	22	50	24	32	24	33	39	38	28	32	25	23	23	26	24	23	25	24	50
17-Feb	24	24	24	24	24	24	24	24	24	24	24	25	25	26	26	26	26	24	24	25	26	25	26	25	26
18-Feb	25	25	25	26	24	27	27	25	26	25	26	28	28	28	27	31	27	25	21	50	49	10	7	8	50
19-Feb	16	10	13	13	13	17	23	20	19	28	26	33	37	44	41	29	25	14	12	14	14	13	13	14	44
20-Feb	16	17	22	17	26	15	26	20	UO	63	108	85	42	35	28	26	31	23	19	22	24	25	23	25	108
21-Feb	25	24	21	22	23	25	24	26	39	25	25	35	26	28	27	25	25	24	24	23	26	25	24	27	39
22-Feb	24	25	23	24	25	24	23	25	25	21	26	28	33	20	27	30	29	30	29	26	24	19	20	18	33
23-Feb	19	15	19	32	28	20	31	35	64	39	45	55	66	55	46	47	43	45	26	40	46	43	41	36	66
24-Feb	33	17	16	32	35	38	26	20	37	49	56	49	54	63	50	52	50	32	14	15	18	16	17	17	63
25-Feb	16	16	18	31	29	24	44	59	51	39	65	45	34	44	51	51	45	77	19	23	24	26	23	23	77
26-Feb	24	25	23	24	27	25	26	22	24	30	25	26	26	28	29	28	27	27	25	25	25	19	20	21	30
27-Feb	20	26	21	24	33	40	54	23	28	28	66	41	36	33	42	37	49	21	14	17	53	18	19	51	66
28-Feb	9	8	8	13	13	14	17	16	15	25	33	24	29	24	26	26	23	51	20	15	14	16	17	17	51
	92	56	50	44	48	51	54	59	64	78	108	85	66	68	51	52	50	77	45	68	73	53	41	63	
	Diurnal Maximum																								

M - Maintenance UO - Unstable Operation

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS21
CONKLIN
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - CONKLIN (AMS21)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-Min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2(ppb) Average	640	32	32	100	-	-	3.4	0	1	0
TRS(ppb) Average	640	32	32	100	0.6	0	0.5	0	0.3	0
THC(ppm) Average	640	32	32	100	-	-	2.4	-	2.2	-
NMHC(ppm) Average	640	32	32	100	-	-	0.001	-	0	-
CH4(ppm) Average	640	32	32	100	-	-	2.4	-	2.2	-
O3 (ppb) Average	640	32	32	100	-	-	47.1	0	42.5	-
NO2 (ppb) Average	639	33	33	100	-	-	14	0	5.2	-
NO (ppb) Average	639	33	33	100	-	-	17.8	-	1.6	-
NOX (ppb) Average	639	33	33	100	-	-	28.7	-	6.2	-
PM2.5 (ug/m3) Average	670	2	2	100	-	-	35.3	0	13.2	0
Temperature 2 m (C) Average	672	0	0	100	-	-	9.8	-	3.5	-
Relative Humidity (%) Average	672	0	0	100	-	-	98.7	-	94.3	-
Wind Speed 10 m (km/h) Average	672	0	0	100	-	-	19	-	14	-
Wind Direction 10 m (deg) Average	672	0	0	100	-	-	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - CONKLIN (AMS21)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	640	0.36	0.5	-	0	0	0.1	0.2	0.4	1.1	3.4
TRS (ppb) Average	640	0.19	0.1	-	0.1	0.1	0.2	0.2	0.2	0.3	0.5
THC (ppm) Average	640	2.08	0	-	2	2	2.1	2.1	2.1	2.1	2.4
NMHC(ppm) Average	640	0	0	-	0	0	0	0	0	0	0.001
CH4(ppm) Average	640	2.08	0	-	2	2	2.1	2.1	2.1	2.1	2.4
O3 (ppb) Average	640	27.63	8.9	-	2.9	15.6	21.5	27.9	33.9	39.7	47.1
NO2 (ppb) Average	639	2.52	2.1	-	0.2	0.7	1	2	3.2	4.9	14
NO (ppb) Average	639	0.47	1.3	-	0	0	0	0.1	0.4	1.1	17.8
NOX (ppb) Average	639	2.99	2.8	-	0.2	0.7	1.2	2.3	3.6	5.6	28.7
PM2.5 (ug/m3) Average	670	3.98	3.4	-	0.3	1.4	2	2.9	4.7	7.9	35.3
Temperature 2 m (C) Average	672	-12.56	11.1	-	-43.5	-27.7	-20.2	-10.2	-4.8	0.3	9.8
Relative Humidity (%) Average	672	76.83	14	-	29.4	57.4	69.9	77.7	88	93.2	98.7
Wind Speed 10 m (km/h) Average	672	6.4	4	-	0	2	3	6	9	12	19
Wind Direction 10 m (deg) Average	672	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - CONKLIN (AMS 21)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
				No operational issues to report

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Conklin - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 3.4 ppb on Feb 7 13:00 Maximum Daily Average: 1.0 ppb on Feb 1

Minimum Value: 0.0 ppb on Feb 3 07:00 Minimum Daily Average: 0.0 ppb on Feb 14

Maximum Diurnal Average: 0.5 ppb at hour 13 Minimum Diurnal Average: 0.2 ppb at hour 8

Monthly Average: 0.36 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.2 Q_3 = 0.4 P_{90} = 1.1 P_{99} = 2.3

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	1.4	Z	1.4	0.8	0.5	0.4	0.5	0.9	1.2	1.7	1.9	1.3	0.9	1.5	1.5	1.4	1.8	1.2	0.8	0.7	0.3	0.5	0.6	1.0	1.9
2-Feb	0.8	0.6	0.8	Z	0.4	0.3	0.3	0.3	0.3	0.4	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.8
3-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.3
4-Feb	0.1	0.1	0.2	0.3	0.3	Z	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
5-Feb	Z	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.7	0.8	1.1	0.8	0.7	1.1	1.6	1.5	1.5	1.1	1.1	1.0	1.4	1.7	2.8	0.8	2.8
6-Feb	3.0	Z	2.2	2.1	1.3	0.7	0.4	0.3	0.2	0.3	0.6	1.4	2.7	2.0	0.4	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.8	3.0
7-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.3	3.4	2.3	1.5	1.3	0.9	0.4	0.1	0.2	0.2	0.1	0.2	0.2	0.5	3.4
8-Feb	0.2	0.1	0.2	Z	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.5	0.3	0.1	0.2	0.5
9-Feb	0.2	0.5	0.1	0.0	Z	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.2	0.3	0.1	0.2	0.5
10-Feb	0.2	0.2	0.1	0.1	0.1	Z	0.0	0.0	0.0	0.0	C	C	C	C	0.2	0.5	0.4	0.3	0.1	0.1	0.2	0.4	0.7	0.8	0.2	0.8
11-Feb	Z	0.6	0.7	0.5	0.4	0.3	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.3	0.7
12-Feb	0.2	Z	0.2	0.1	0.2	0.2	0.3	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.4	0.9	1.0	1.2	1.1	0.8	0.4	1.2
13-Feb	0.5	0.5	Z	0.4	0.3	0.1	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.5
14-Feb	0.1	0.0	0.1	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1
15-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.2	0.3	0.7	0.7	0.6	0.6	1.3	0.8	0.8	0.5	1.8	1.6	0.5	1.8
16-Feb	1.0	0.8	0.4	0.2	0.1	Z	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0
17-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.1	0.3
18-Feb	0.2	Z	0.2	0.3	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.3	0.5	0.3	0.2	0.2	0.1	0.1	0.2	0.5
19-Feb	0.1	0.0	Z	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.0	0.0	0.1	0.3
20-Feb	0.1	0.1	0.1	Z	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.8	1.1	1.4	2.0	2.3	2.1	1.0	0.5	0.1	0.1	0.1	0.2	0.4	0.6	2.3
21-Feb	0.7	1.2	1.3	1.0	Z	0.4	0.3	0.4	0.6	0.5	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.3	1.3
22-Feb	0.0	0.1	0.1	0.2	0.2	Z	0.0	0.0	0.0	0.1	0.4	0.3	0.4	0.5	0.3	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.5
23-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
24-Feb	0.0	Z	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.2	0.1	0.1	0.2	0.1	0.0	0.1	0.0	0.1	0.2	0.2	0.1	0.0	0.1	0.4
25-Feb	0.3	1.7	Z	1.2	1.2	0.7	0.4	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.3	0.4	1.7
26-Feb	0.3	0.2	0.3	Z	0.5	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.4	0.6	1.2	1.5	2.2	1.7	2.1	2.3	1.9	2.0	2.9	0.9	2.9
27-Feb	2.4	1.8	2.3	1.9	Z	1.8	1.2	0.8	1.6	1.9	1.2	0.7	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.9	2.4
28-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.3	0.4	0.3	0.3	0.1	0.3	0.4	0.5	0.4	0.3	0.9	0.6	0.6	0.6	0.6	0.3	0.9
	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	Diurnal Average	
	3.0	1.8	2.3	2.1	1.3	1.8	1.2	0.8	1.6	1.9	1.7	1.9	3.4	2.3	2.0	2.3	2.1	2.2	1.7	2.1	2.3	1.9	2.0	2.9	Diurnal Maximum	

Z - zerospan C - Calibration

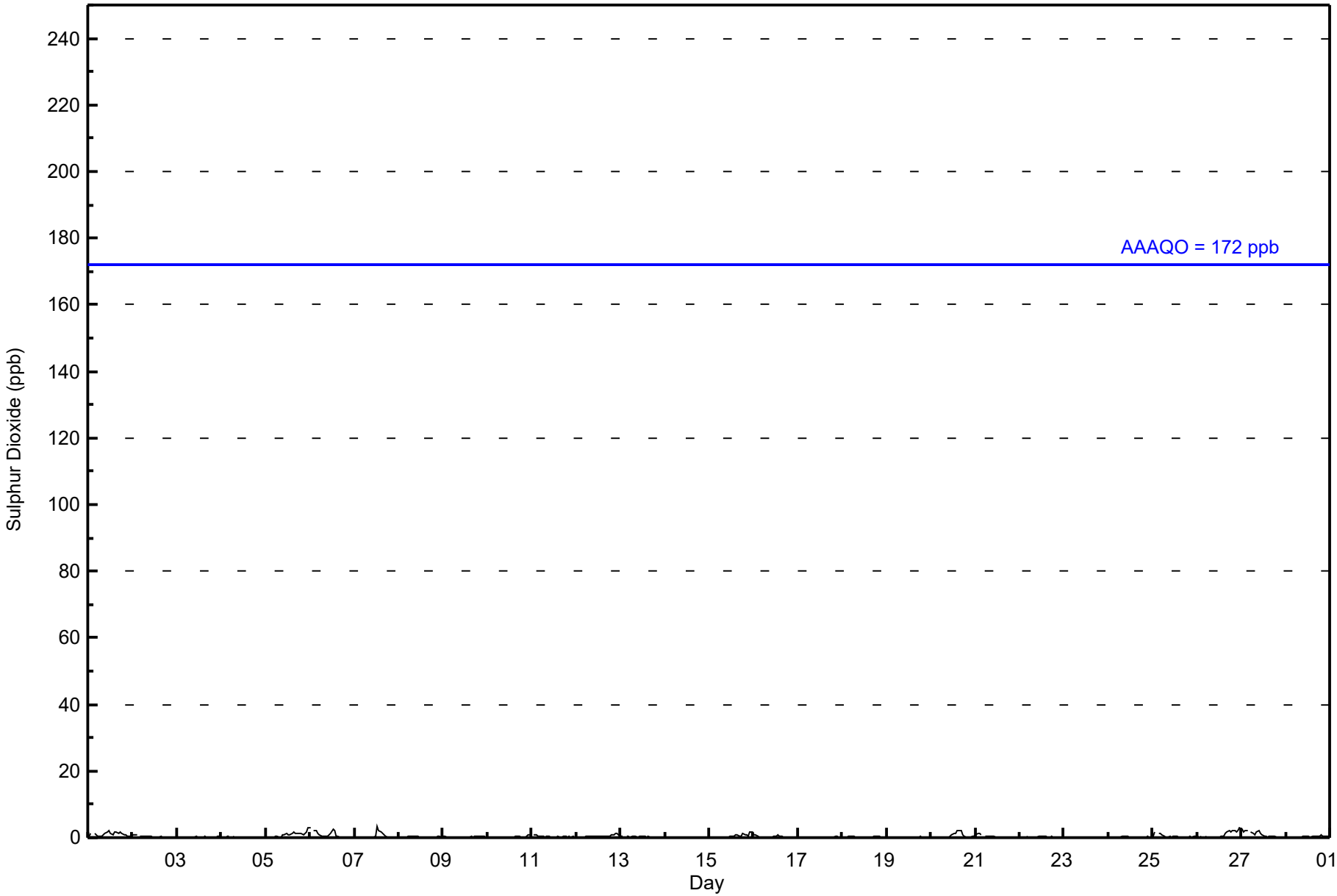
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Conklin - February 2026



Sulphur Dioxide (SO_2) - ppb

Conklin - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	640	100.00	100.00
11 - 20	0	0.00	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Conklin - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	69	39	21	17	19	36	38	38	37	45	65	14	38	29	50	85	640
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	69	39	21	17	19	36	38	38	37	45	65	14	38	29	50	85	640

Total Number of Valid Hours: 640

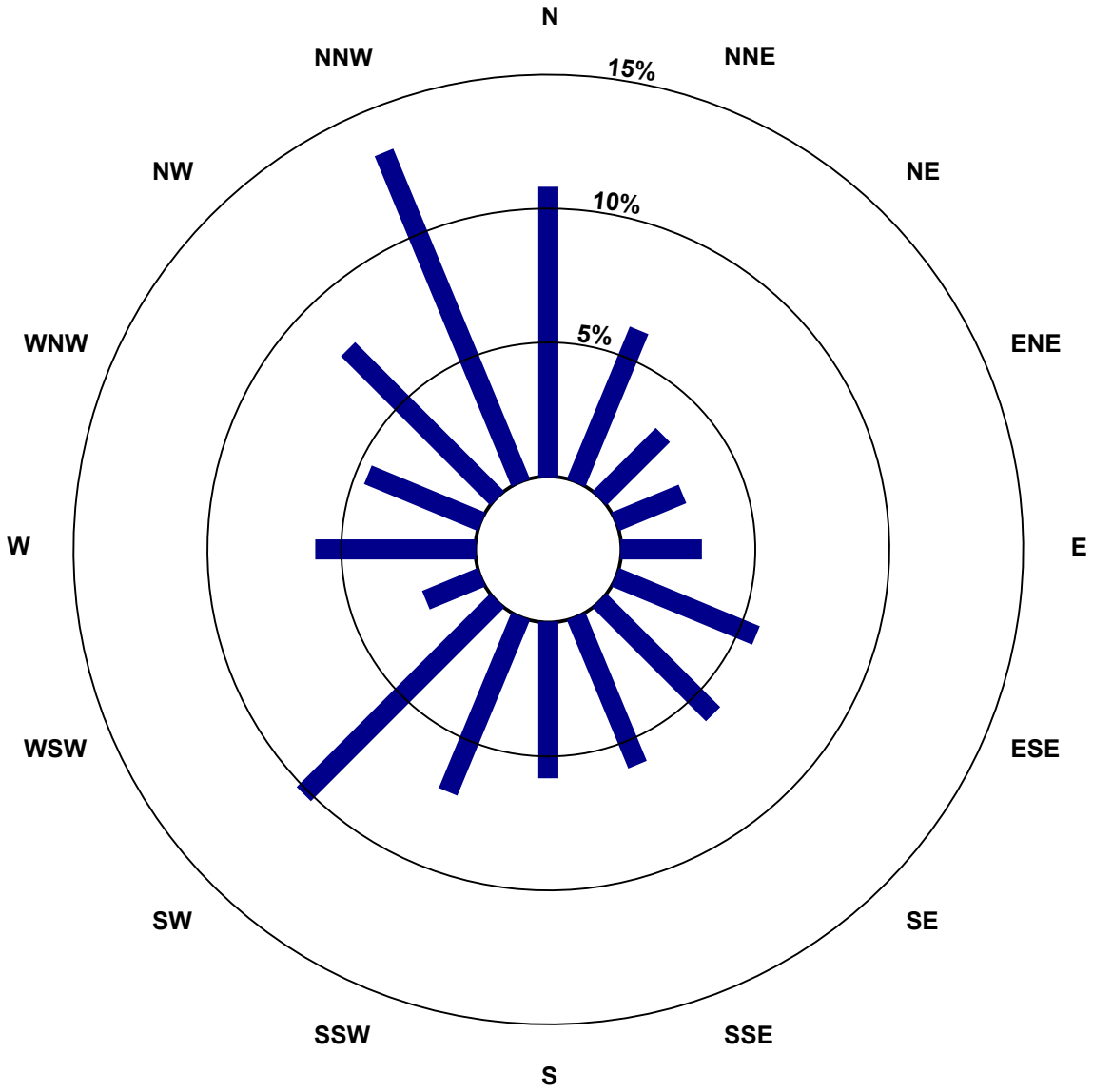
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Conklin



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

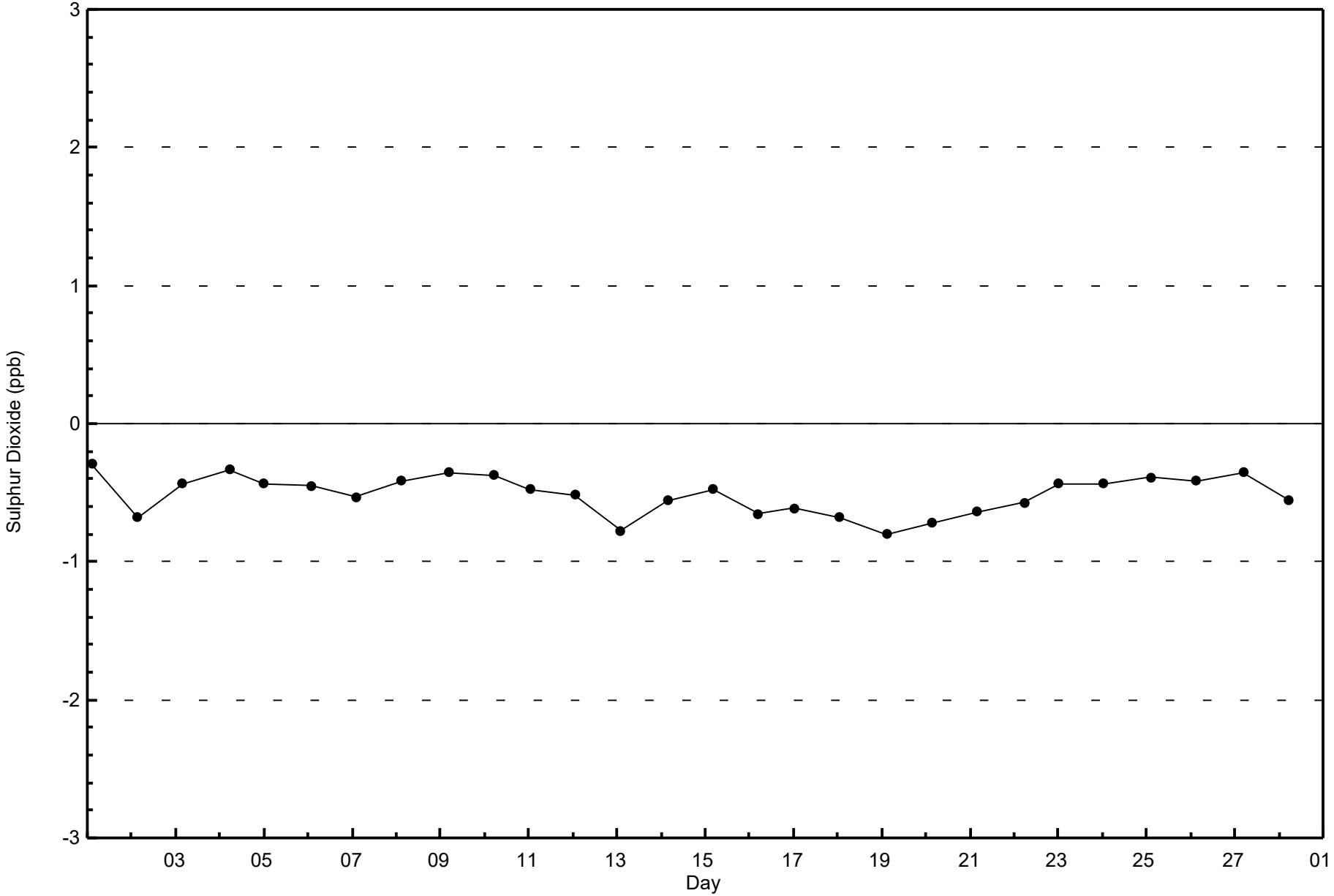
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Conklin - February 2026

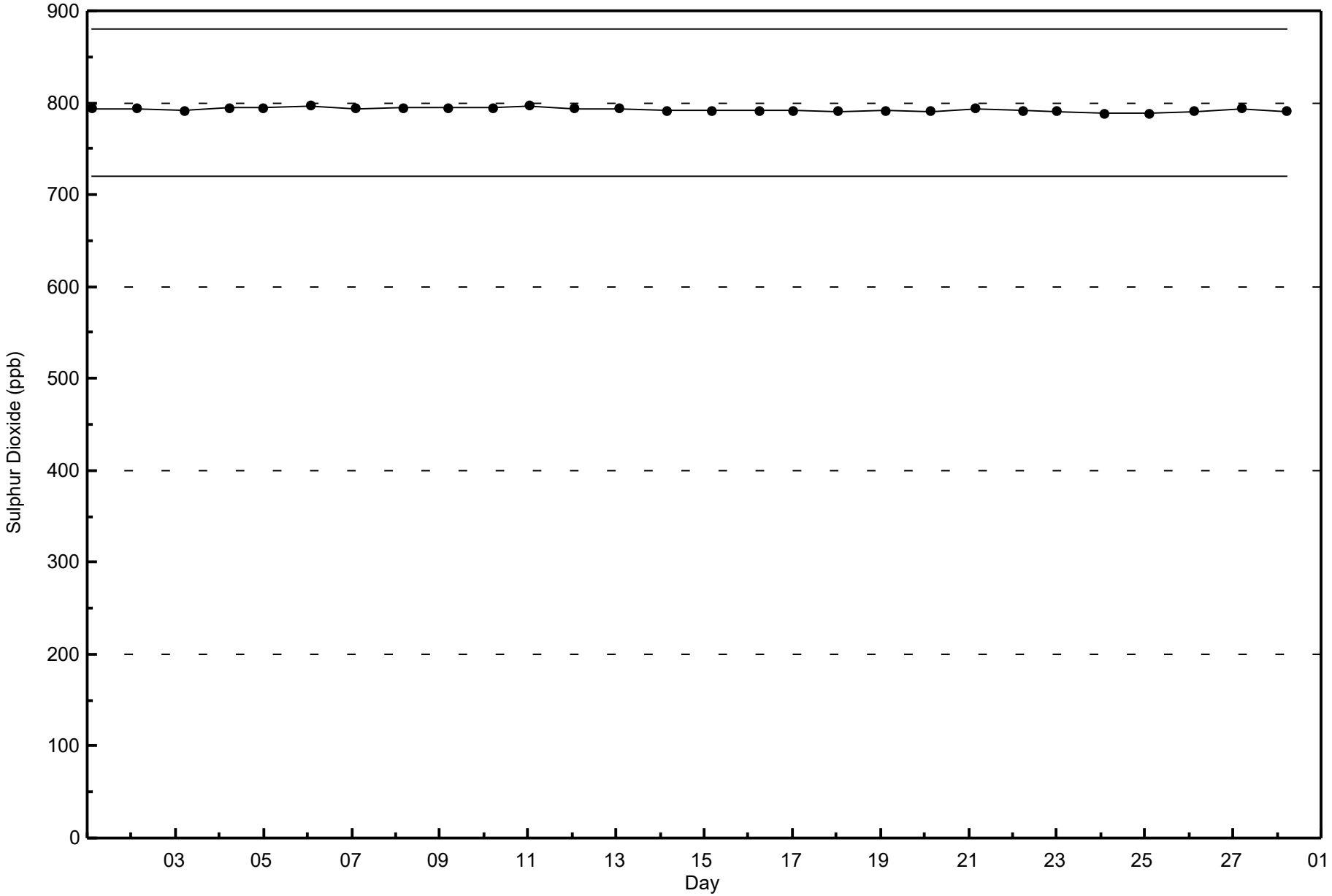


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Conklin - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Conklin - February 2026

Number of Exceedences (AAAQG): 30-Min: 0

Maximum Value: 0.6 ppb on Feb 1 13:00 Maximum Daily Average: 0.3 ppb on Feb 15

Minimum Value: 0.1 ppb on Feb 5 00:30 Minimum Daily Average: 0.1 ppb on Feb 4

Maximum Diurnal Average: 0.2 ppb at hour 13 Minimum Diurnal Average: 0.2 ppb at hour 23

Monthly Average: 0.19 ppb Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.2 Median = 0.2 Q_3 = 0.2 P_{90} = 0.3 P_{99} = 0.4

Periods in Service:	1344
Periods of Valid Data:	1278
Periods of Invalid Data:	66
Periods of Calibration:	66
Percent Operational Time:	100.0

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.2	0.3	0.4	Z	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
	0.2	0.4	0.4	SP	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.6	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
2-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2
	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1		
3-Feb	0.1	0.2	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.2
	0.1	0.1	0.1	0.1	0.1	SP	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2		
4-Feb	Z	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	SP	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
5-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.3
	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3		
6-Feb	0.3	0.3	Z	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3
	0.3	0.3	SP	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1		
7-Feb	0.1	0.1	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
8-Feb	0.2	0.3	0.3	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
	0.2	0.2	0.3	0.3	SP	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3		
9-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
	0.2	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2		
10-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2		
11-Feb	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
12-Feb	0.1	0.2	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2
	0.1	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2		
13-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2
	0.2	0.1	0.1	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1		
14-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.1	0.1	0.1	0.1	SP	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
15-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
	0.2	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3		

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Conklin - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	Z	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3
	SP	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.1		
17-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.1	SP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
18-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.2	0.2	SP	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
19-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.3
	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2		
20-Feb	0.2	0.2	0.2	0.1	Z	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2		
21-Feb	0.3	0.3	0.4	0.4	0.4	Z	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.4
	0.3	0.4	0.4	0.4	0.4	SP	0.4	0.4	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1		
22-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2
	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1		
23-Feb	0.1	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.1	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2		
24-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
25-Feb	0.2	0.3	0.2	Z	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
	0.3	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
26-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.1	0.1	C	C	C	C	C	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.3
	0.2	0.2	0.2	0.2	SP	0.2	0.1	C	C	C	C	C	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2		
27-Feb	0.2	0.1	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3
	0.2	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3		
28-Feb	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.3
	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1		
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Diurnal Average	
	0.3	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.6	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	Diurnal Maximum	

Z - zerospan C - Calibration SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Conklin - February 2026

Maximum Value: 0.5 ppb on Feb 7 13:00

Maximum Daily Average: 0.3 ppb on Feb 15

Minimum Value: 0.1 ppb on Feb 5 04:00

Minimum Daily Average: 0.1 ppb on Feb 4

Maximum Diurnal Average: 0.2 ppb at hour 13

Minimum Diurnal Average: 0.2 ppb at hour 23

Monthly Average: 0.19 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.1 Q_1 = 0.2 Median = 0.2 Q_3 = 0.2 P_{90} = 0.3 P_{99} = 0.4

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	0.3	0.4	Z	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
2-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2
3-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.2
4-Feb	Z	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
5-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3
6-Feb	0.3	0.3	Z	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.3
7-Feb	0.1	0.2	0.2	Z	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
8-Feb	0.2	0.3	0.3	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
9-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
10-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2
11-Feb	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
12-Feb	0.1	0.2	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2
13-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2
14-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4
16-Feb	Z	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.3
17-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
18-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
19-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
21-Feb	0.3	0.3	0.4	0.4	0.4	Z	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
22-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
23-Feb	0.1	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
24-Feb	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
25-Feb	0.2	0.2	0.2	Z	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
26-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.1	0.1	C	C	C	C	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3
27-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.3
28-Feb	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.3
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Diurnal Average	
	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	Diurnal Maximum	

Z - zerospan C - Calibration

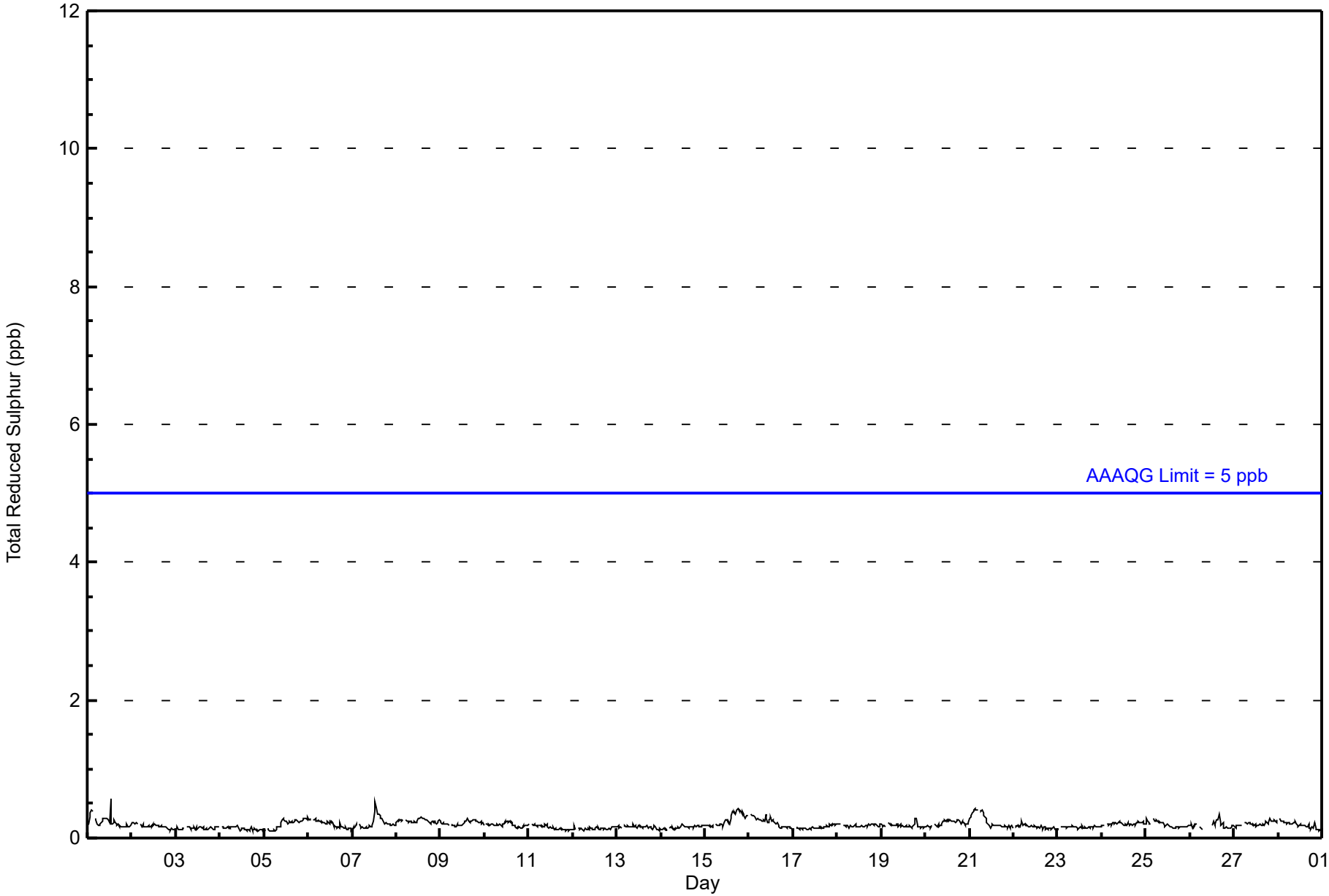
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Conklin - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	640	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Conklin - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	64	41	21	17	18	38	42	37	38	44	67	15	37	28	51	82	640
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	64	41	21	17	18	38	42	37	38	44	67	15	37	28	51	82	640

Total Number of Valid Hours: 640

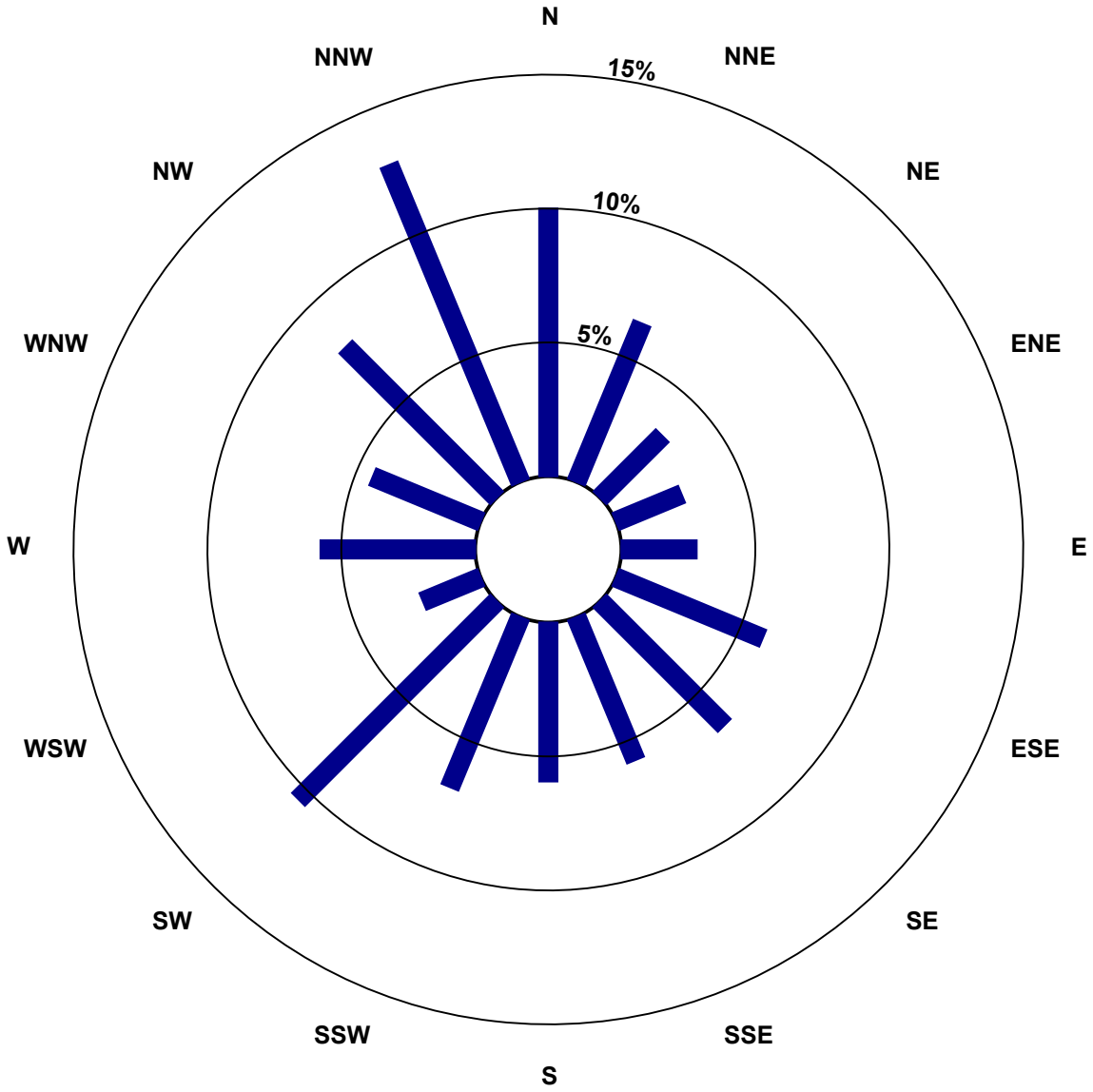
Total Number of Hours: 672

Wood Buffalo Environmental Association

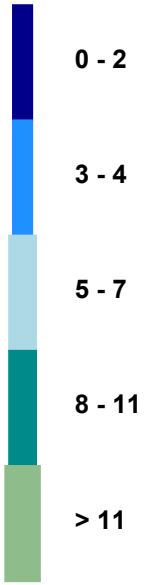
Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Conklin



Classes (ppb)



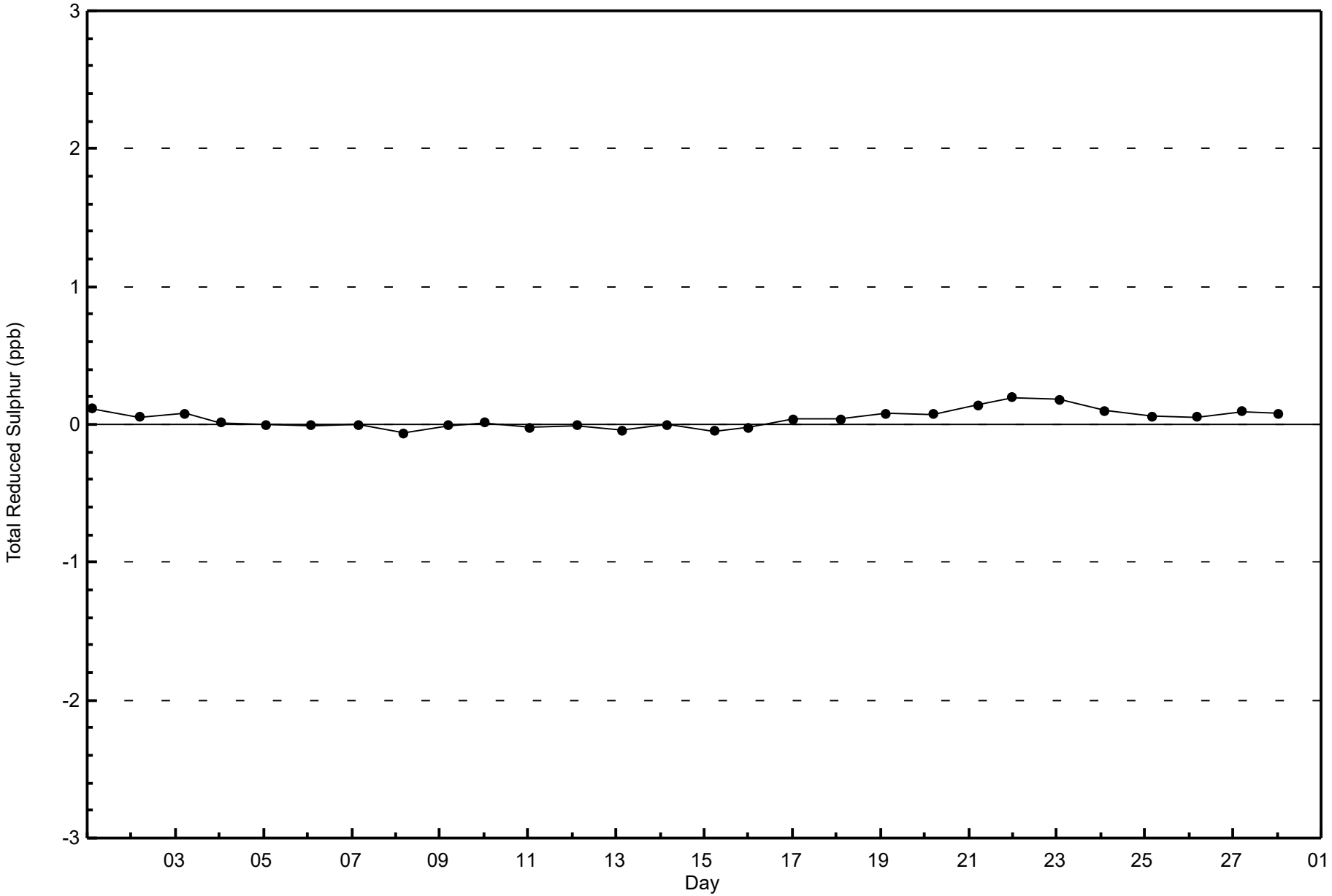
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Conklin - February 2026

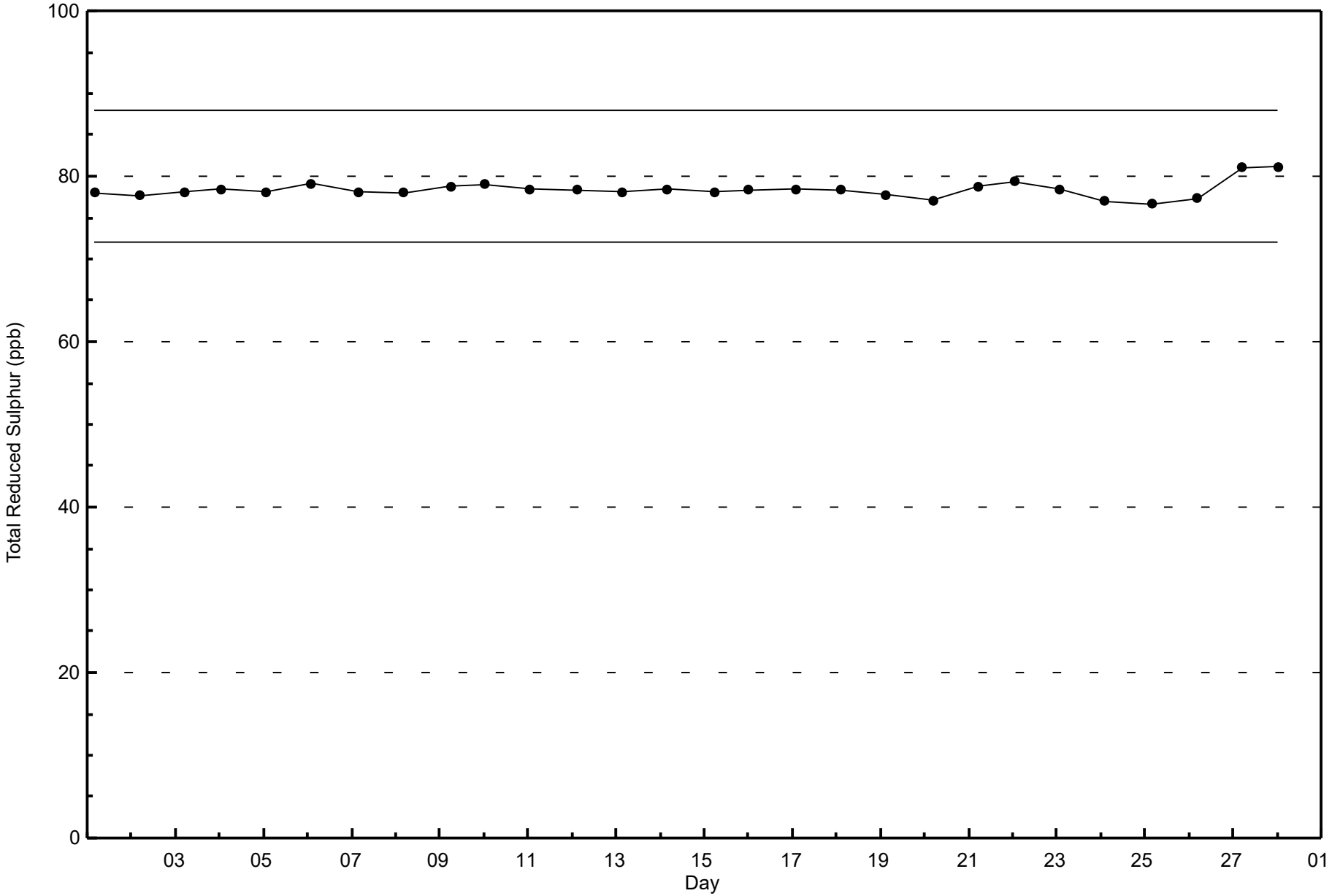


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Conklin - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Conklin - February 2026

Maximum Value: 2.4 ppm on Feb 20 07:00

Maximum Daily Average: 2.2 ppm on Feb 20

Minimum Value: 2.0 ppm on Feb 5 00:00

Minimum Daily Average: 2.0 ppm on Feb 12

Maximum Diurnal Average: 2.1 ppm at hour 8

Minimum Diurnal Average: 2.1 ppm at hour 14

Monthly Average: 2.08 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.1 Median = 2.1 Q_3 = 2.1 P_{90} = 2.1 P_{99} = 2.2

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
2-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.2
3-Feb	2.2	2.2	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
4-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1
5-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
6-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
7-Feb	2.1	2.1	Z	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
8-Feb	2.1	2.2	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
9-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
10-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	C	C	C	C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
11-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1
12-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1
13-Feb	2.1	2.1	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.2
14-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.2
15-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
16-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
17-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
18-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
19-Feb	2.2	2.2	Z	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
20-Feb	2.1	2.1	2.1	Z	2.2	2.3	2.4	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.2	2.4
21-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
22-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
23-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
24-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
25-Feb	2.1	2.1	Z	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	2.2
26-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
27-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
28-Feb	2.1	2.2	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	Diurnal Average	
	2.2	2.2	2.1	2.2	2.2	2.3	2.4	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.2	2.2	2.2	Diurnal Maximum	

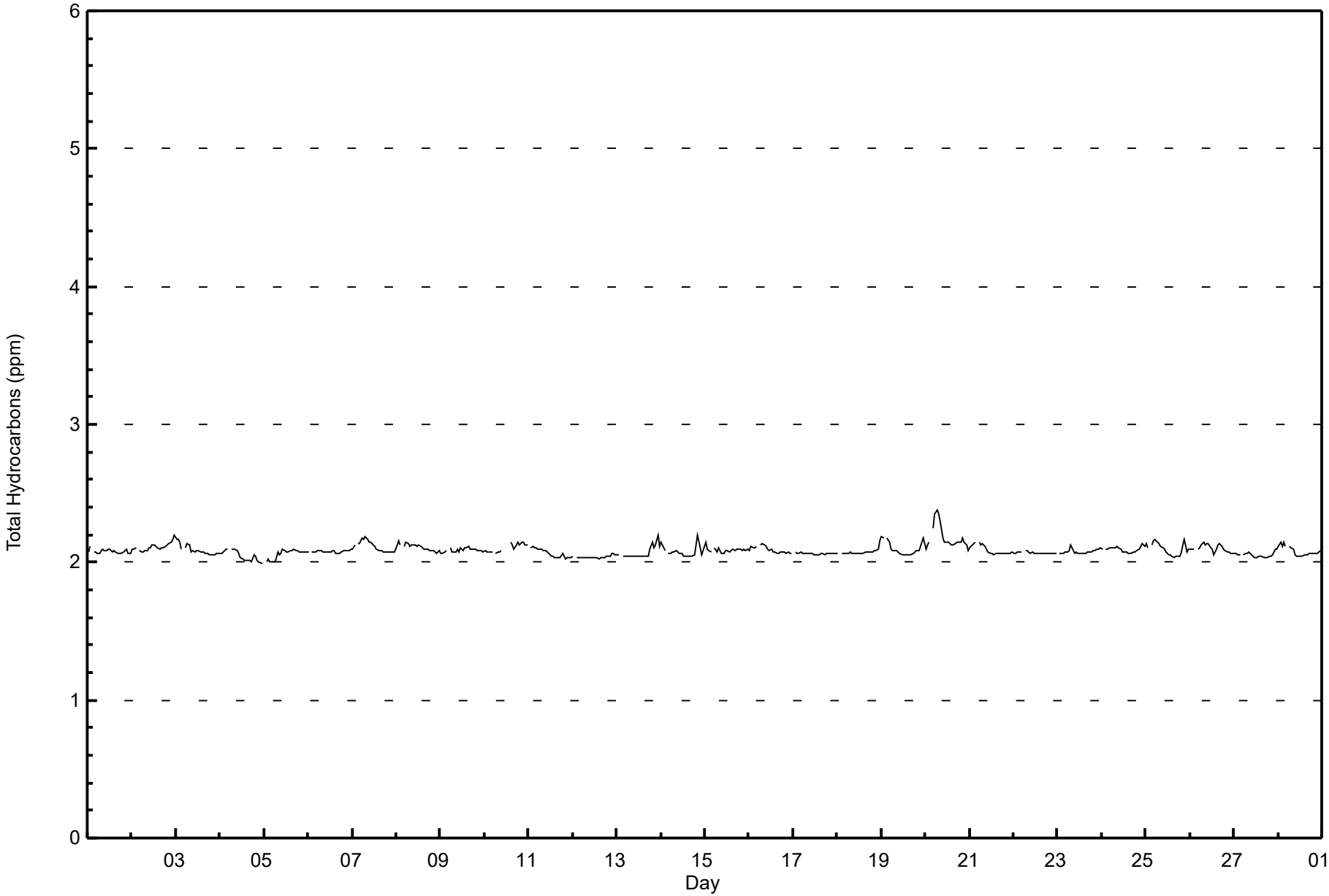
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Conklin - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	90	14.06	14.06
2.1 - 3.0	550	85.94	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Conklin - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	2	0	0	0	1	1	0	1	0	11	22	7	26	11	3	5	90
2.1 - 3.0	67	39	21	17	18	35	38	37	37	34	43	7	12	18	47	80	550
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	69	39	21	17	19	36	38	38	37	45	65	14	38	29	50	85	640

Total Number of Valid Hours: 640

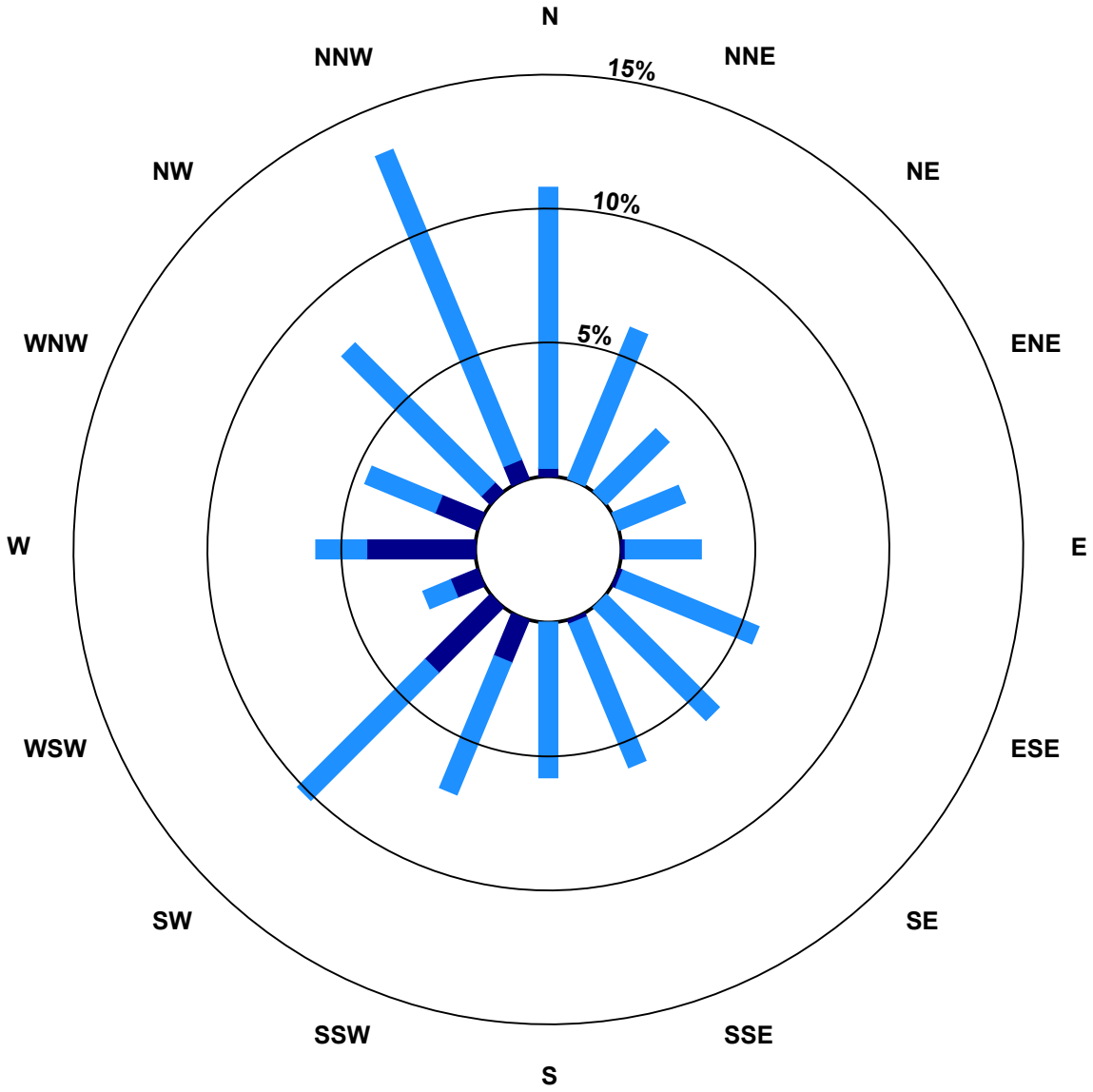
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Conklin



Classes (ppm)

- 0 - 2.0
- 2.1 - 3.0
- 3.1 - 10.0
- > 10.0

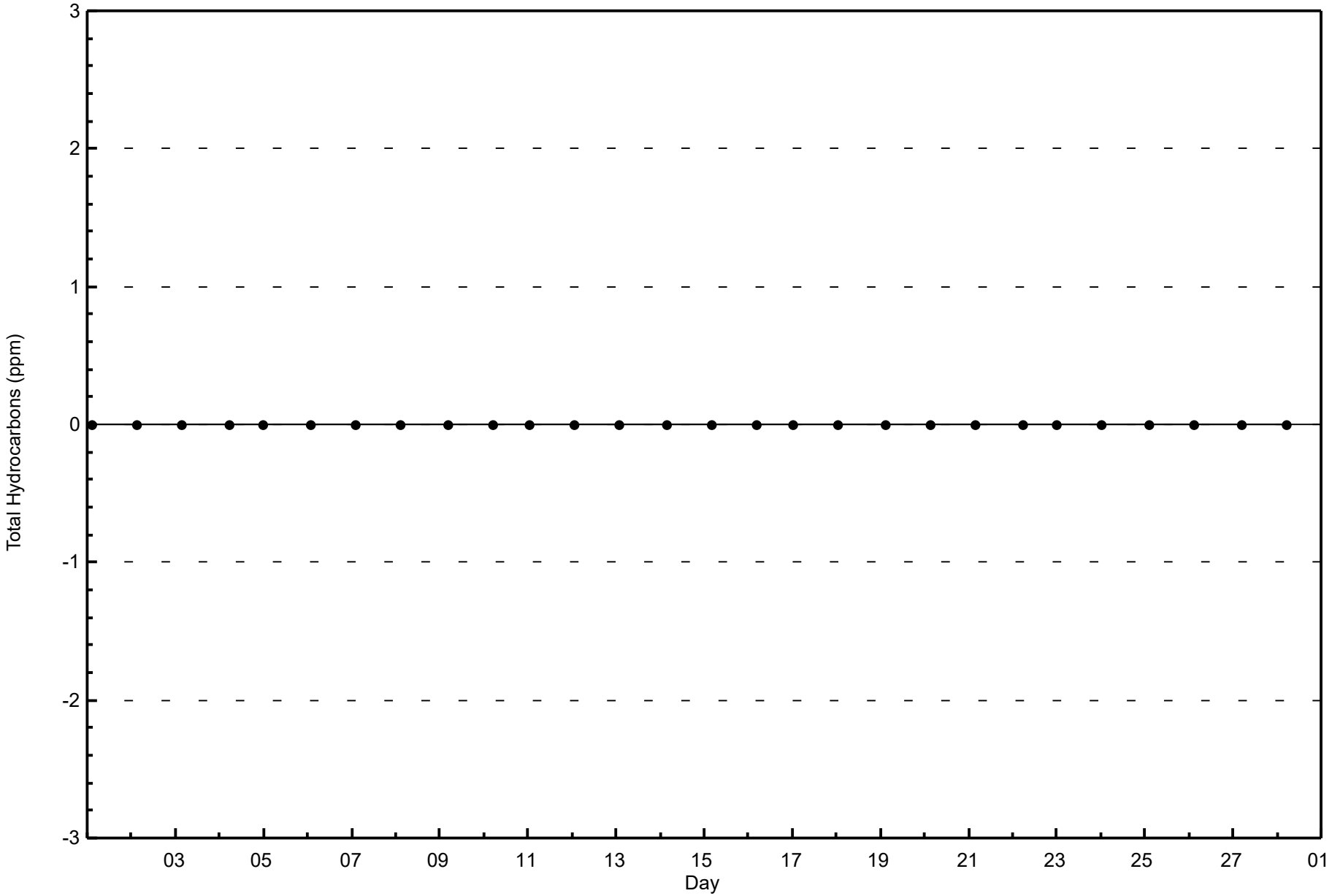
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Conklin - February 2026

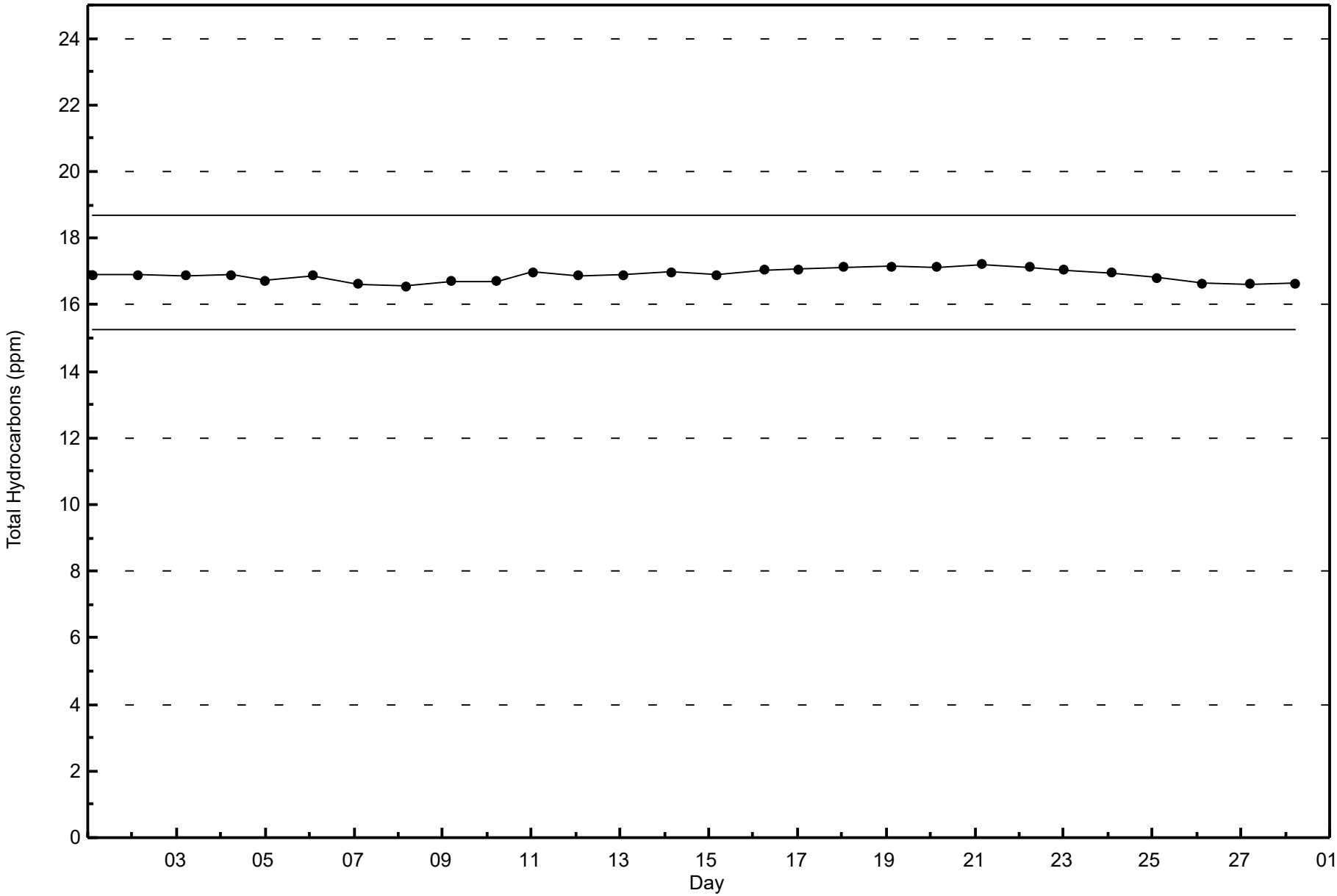


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Conklin - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Conklin - February 2026

Maximum Value: 0.001 ppm on Feb 3 03:00

Maximum Daily Average: 0.000 ppm on Feb 3

Minimum Value: 0.000 ppm on Feb 1 01:00

Minimum Daily Average: 0.000 ppm on Feb 1

Maximum Diurnal Average: 0.000 ppm at hour 3

Minimum Diurnal Average: 0.000 ppm at hour 1

Monthly Average: 0.000 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.0 P_{99} = 0.0

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3-Feb	0.000	0.000	0.001	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
4-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	C	C	C	C	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
11-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Diurnal Average	
	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Diurnal Maximum	

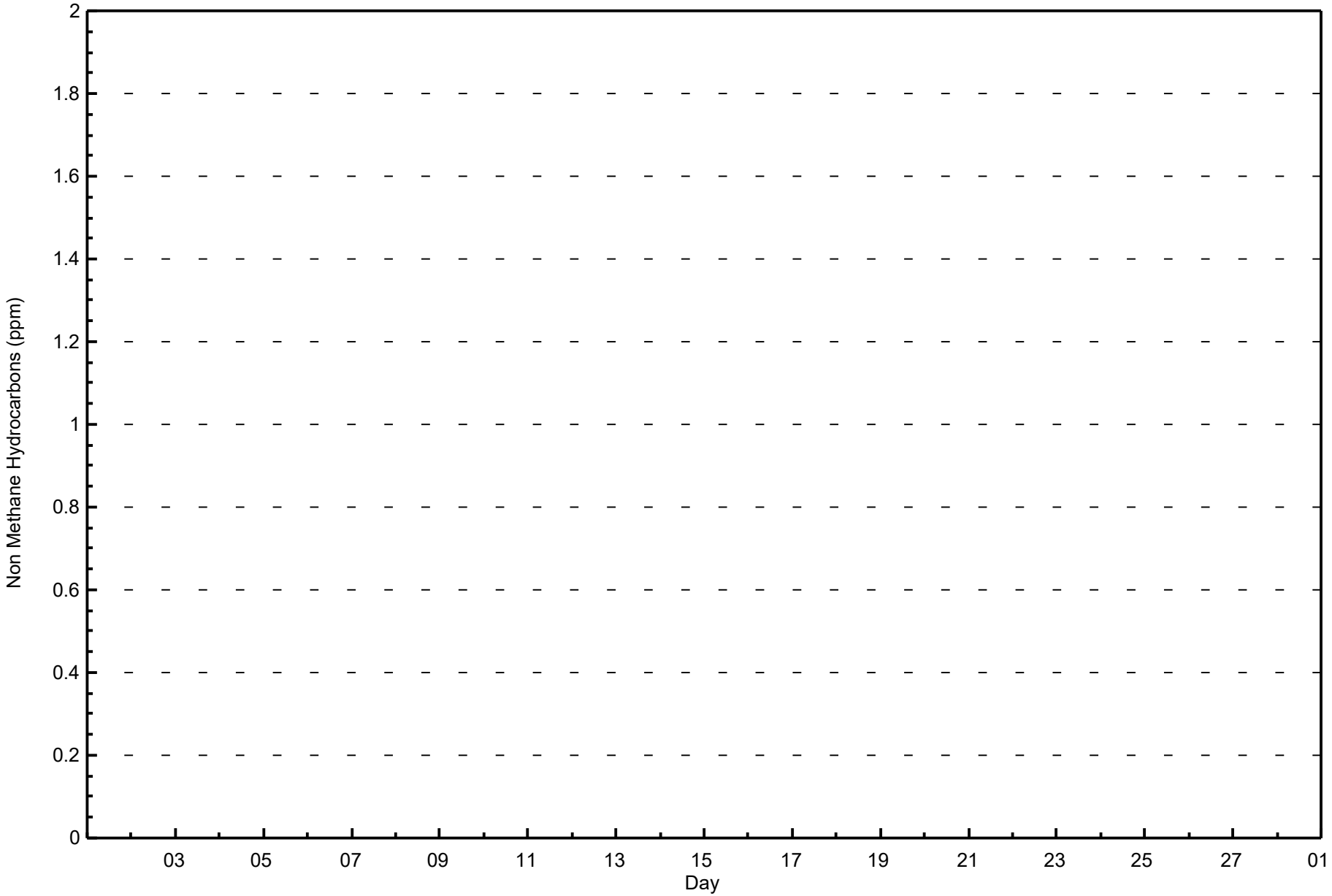
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Conklin - February 2026



Non Methane Hydrocarbons (NMHC) - ppm

Conklin - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	640	100.00	100.00
0.006 - 0.05	0	0.00	100.00
0.06 - 0.1	0	0.00	100.00
> 0.1	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Conklin - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	69	39	21	17	19	36	38	38	37	45	65	14	38	29	50	85	640
0.006 - 0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.06 - 0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	69	39	21	17	19	36	38	38	37	45	65	14	38	29	50	85	640

Total Number of Valid Hours: 640

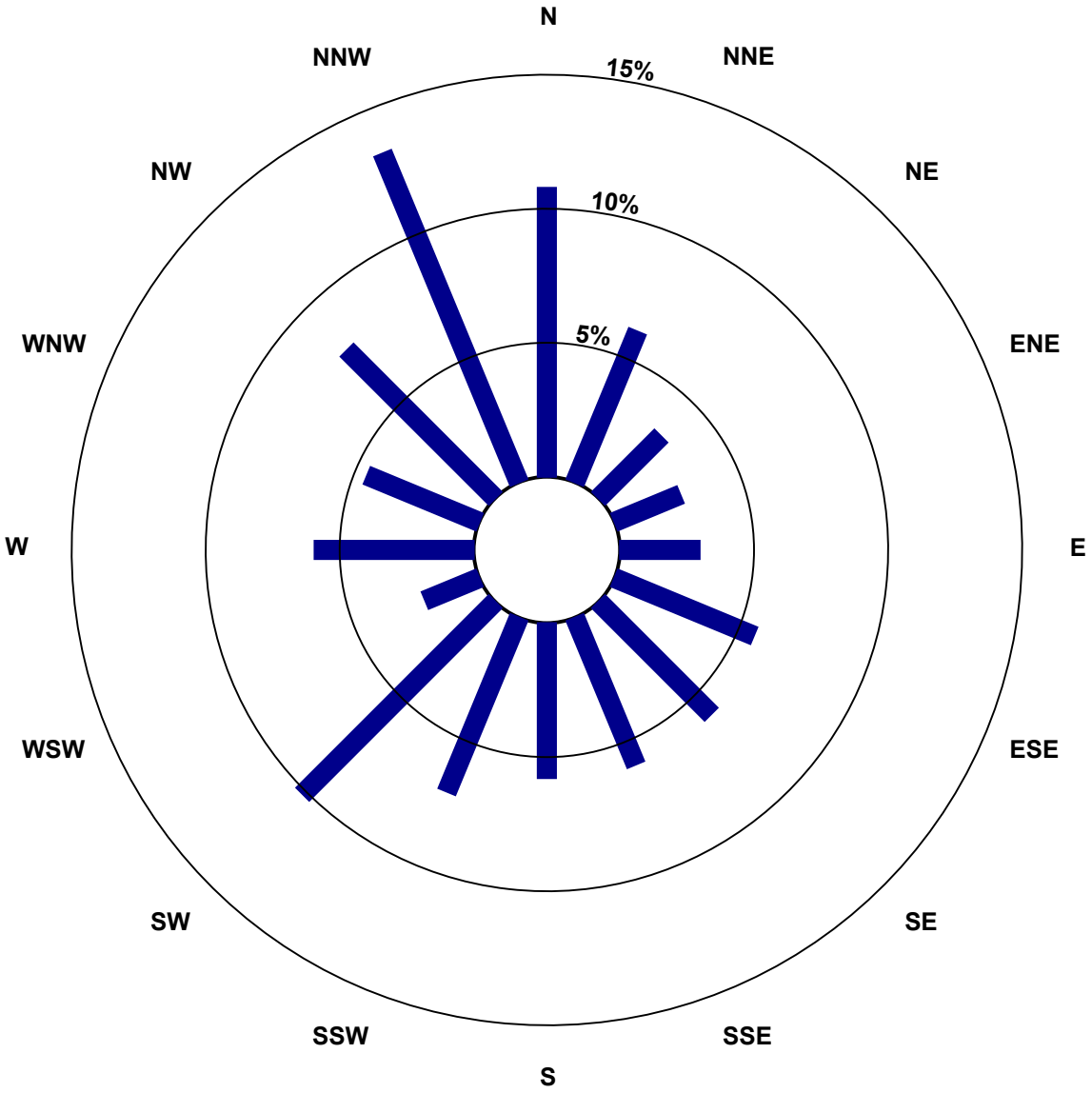
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Conklin



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

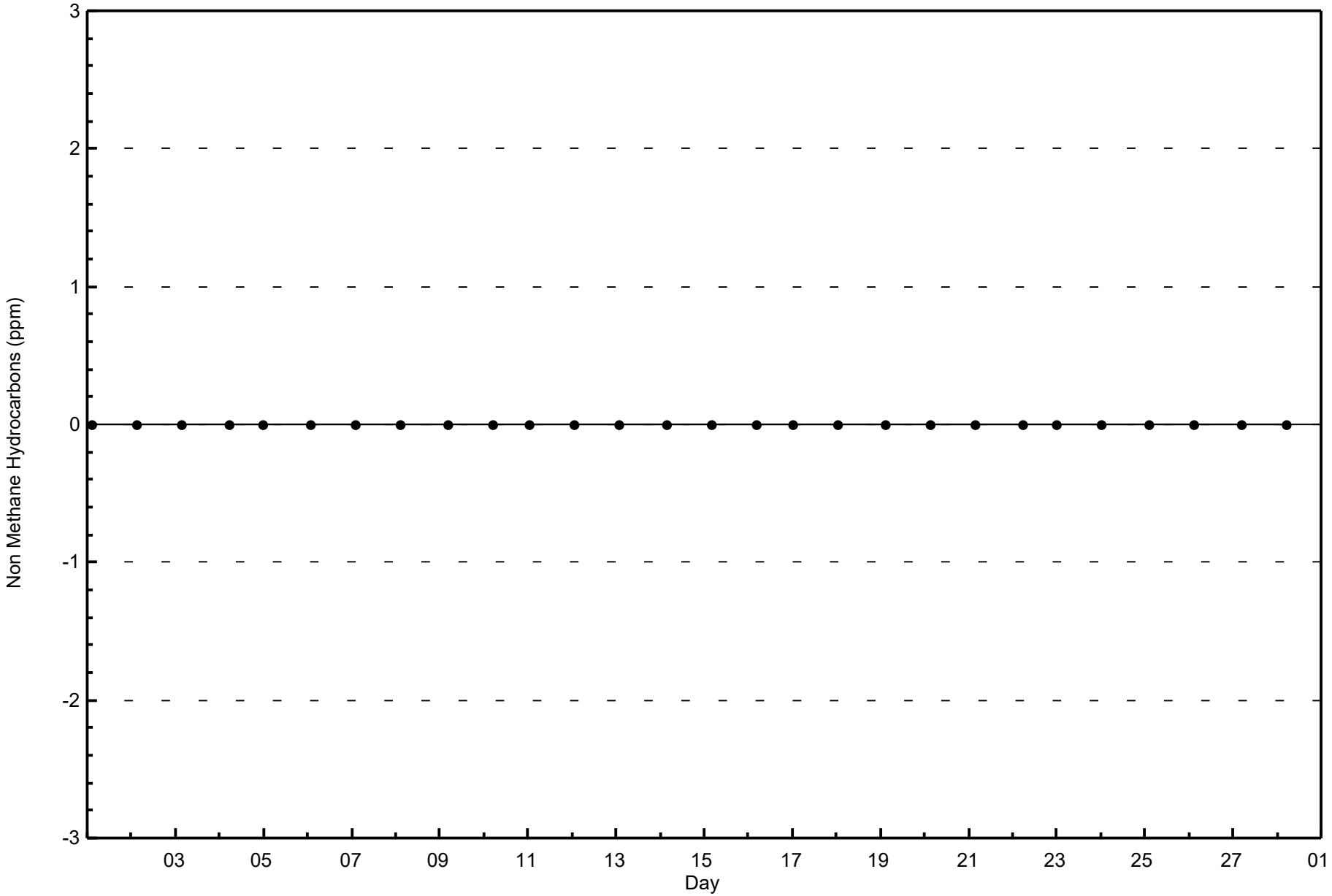
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Conklin - February 2026

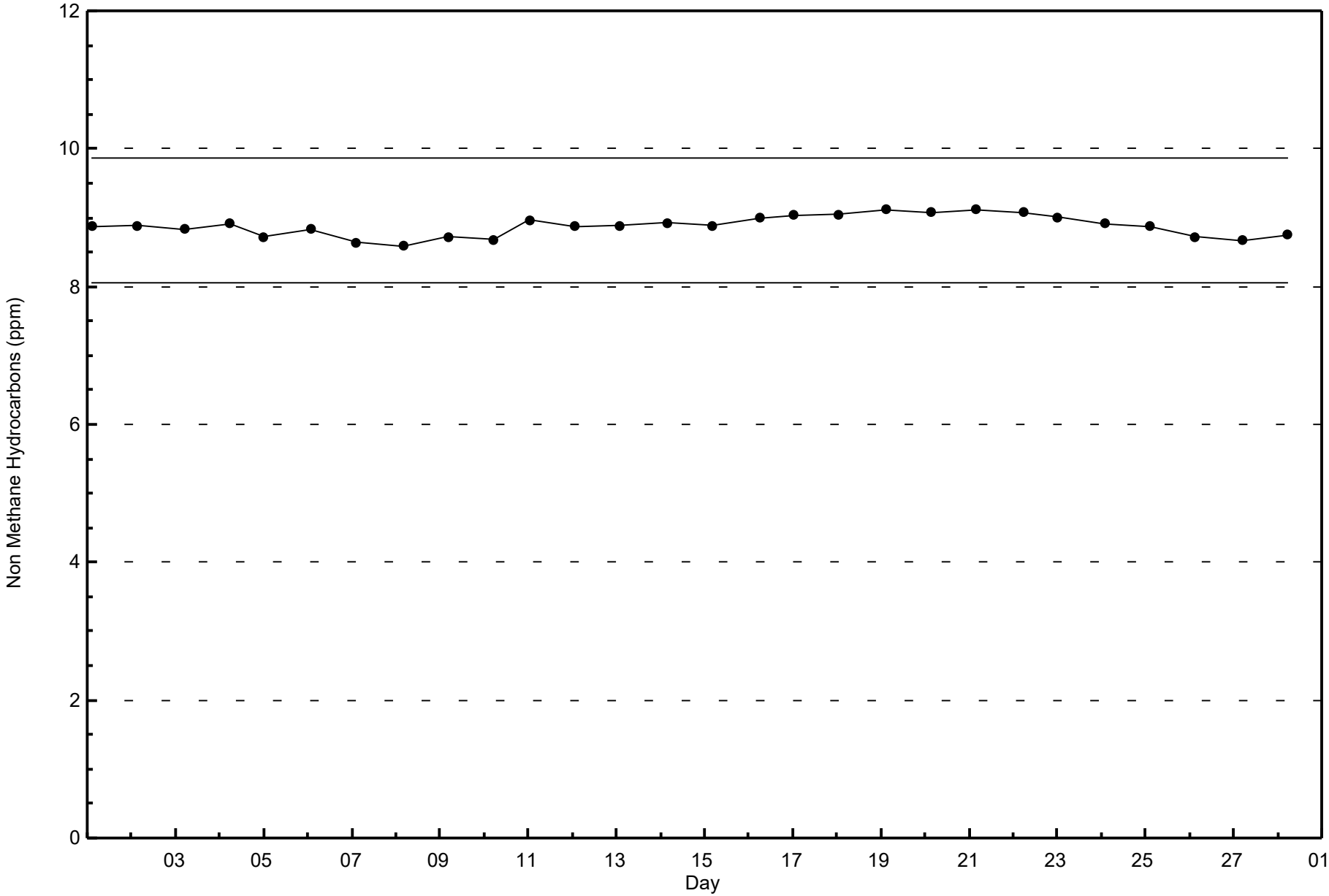


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Conklin - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Conklin - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 2.4 ppm on Feb 20 07:00

Maximum Daily Average: 2.2 ppm on Feb 20

Minimum Value: 2.0 ppm on Feb 5 00:00

Minimum Daily Average: 2.0 ppm on Feb 12

Maximum Diurnal Average: 2.1 ppm at hour 8

Minimum Diurnal Average: 2.1 ppm at hour 14

Monthly Average: 2.08 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.1 Median = 2.1 Q_3 = 2.1 P_{90} = 2.1 P_{99} = 2.2

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
2-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.2
3-Feb	2.2	2.2	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
4-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1
5-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
6-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
7-Feb	2.1	2.1	Z	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
8-Feb	2.1	2.2	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
9-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
10-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	C	C	C	C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
11-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1
12-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1
13-Feb	2.1	2.1	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.2
14-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.2
15-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
16-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
17-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
18-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
19-Feb	2.2	2.2	Z	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
20-Feb	2.1	2.1	2.1	Z	2.2	2.3	2.4	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.2	2.4
21-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
22-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
23-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
24-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
25-Feb	2.1	2.1	Z	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	2.2
26-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
27-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
28-Feb	2.1	2.2	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	Diurnal Average	
	2.2	2.2	2.1	2.2	2.2	2.3	2.4	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.2	2.2	2.2	Diurnal Maximum	

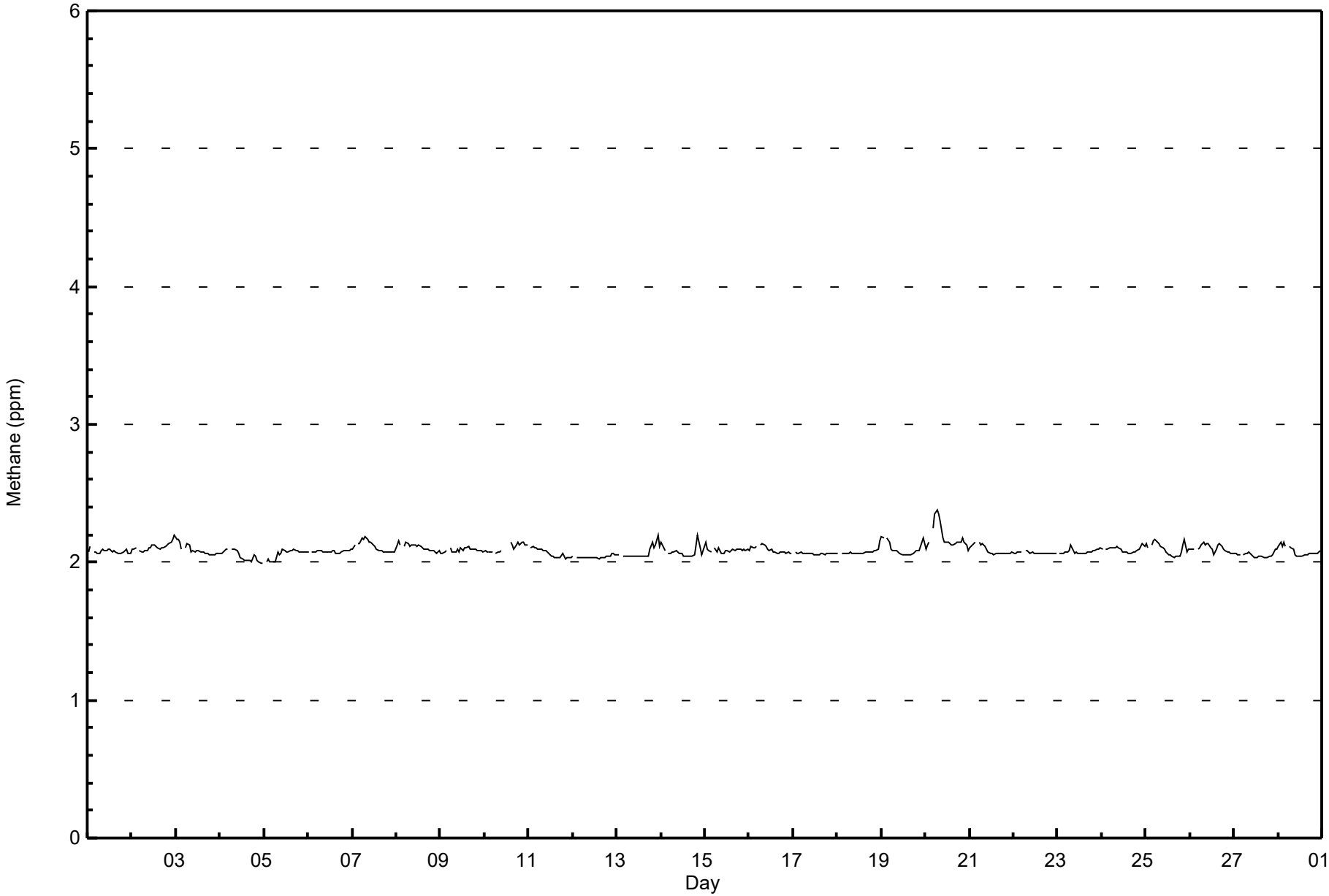
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Conklin - February 2026



Methane (CH_4) - ppm
Conklin - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	90	14.06	14.06
2.1 - 3.0	550	85.94	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Conklin - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	2	0	0	0	1	1	0	1	0	11	22	7	26	11	3	5	90
2.1 - 3.0	67	39	21	17	18	35	38	37	37	34	43	7	12	18	47	80	550
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	69	39	21	17	19	36	38	38	37	45	65	14	38	29	50	85	640

Total Number of Valid Hours: 640

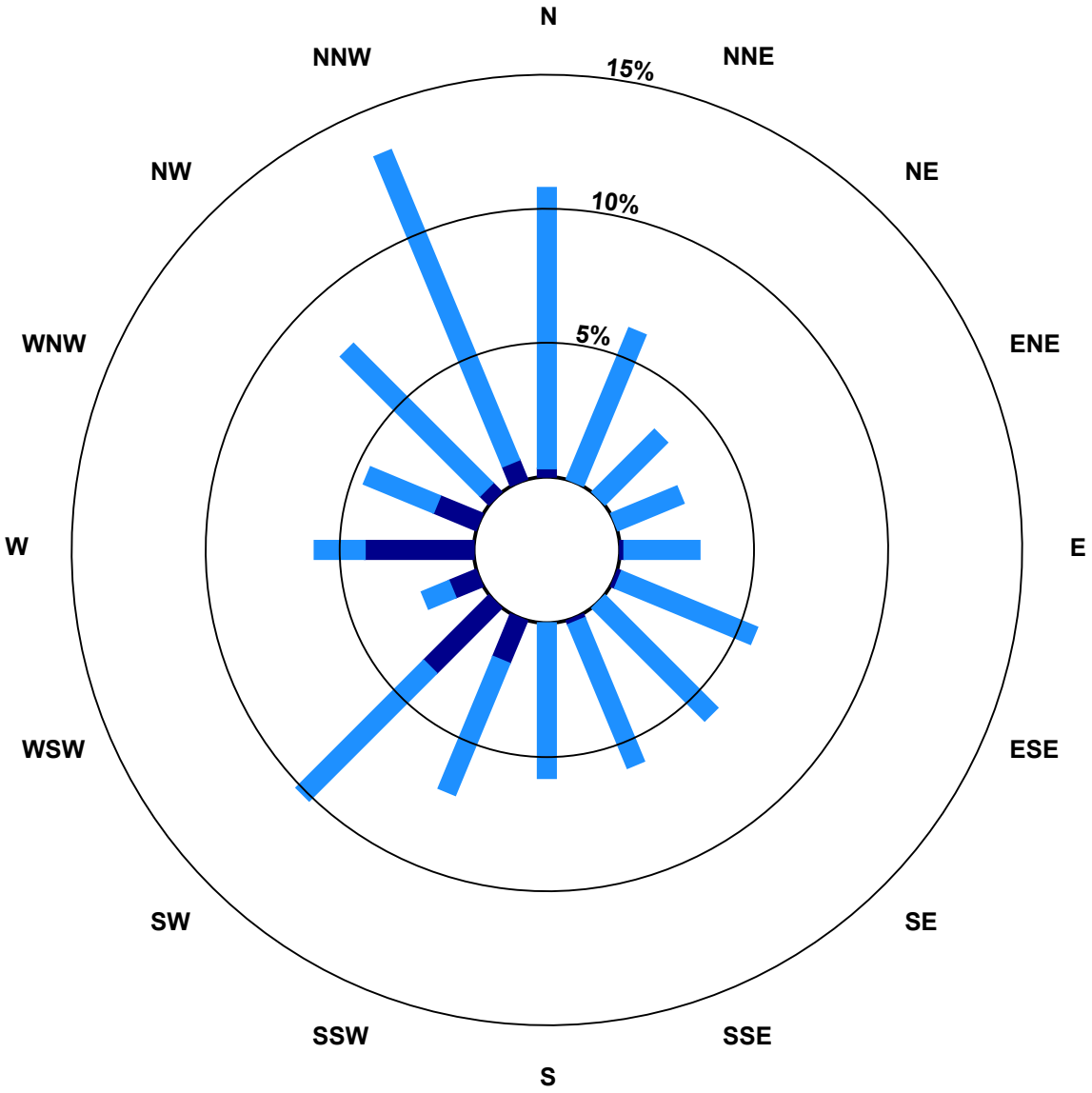
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Conklin



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

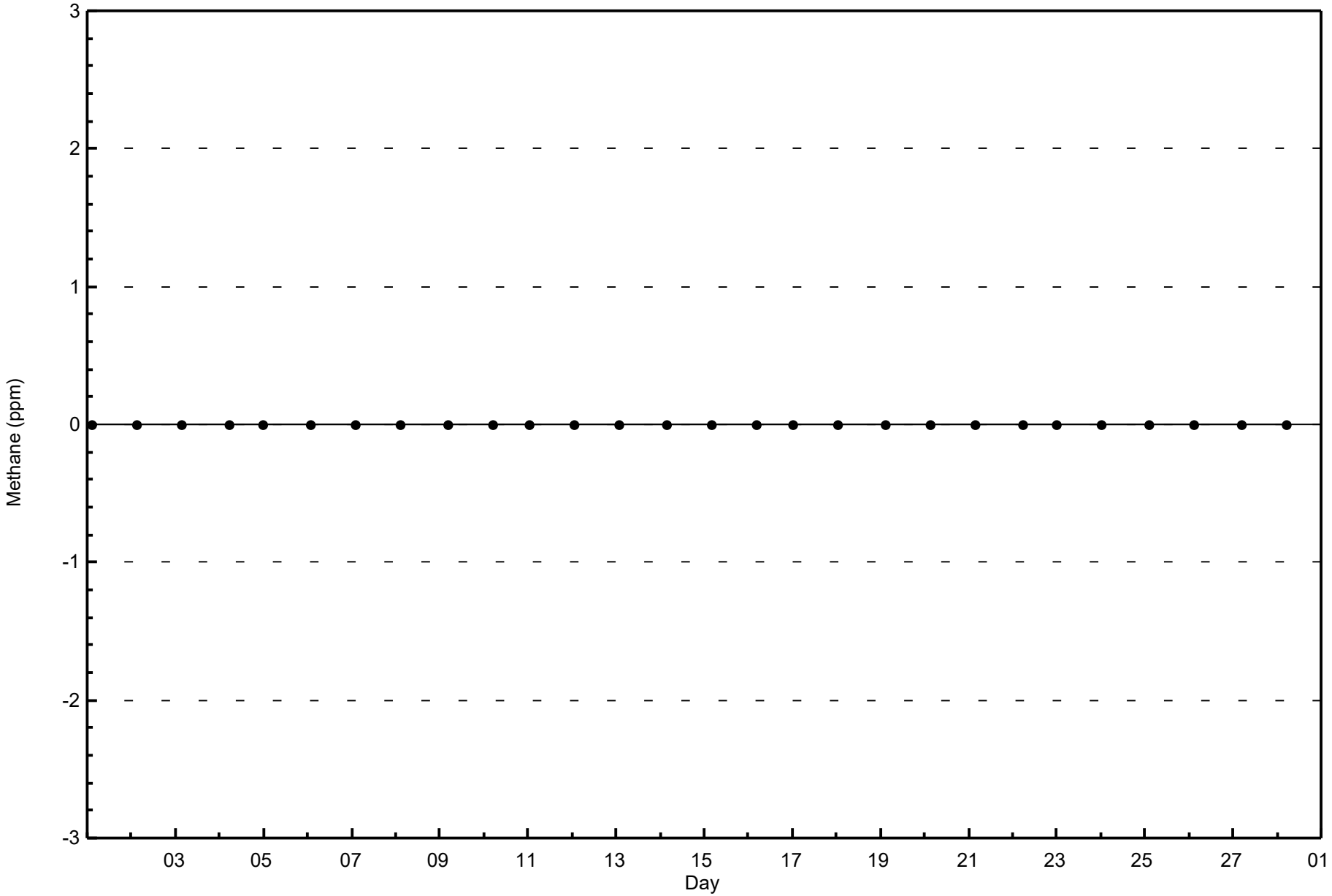
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Conklin - February 2026

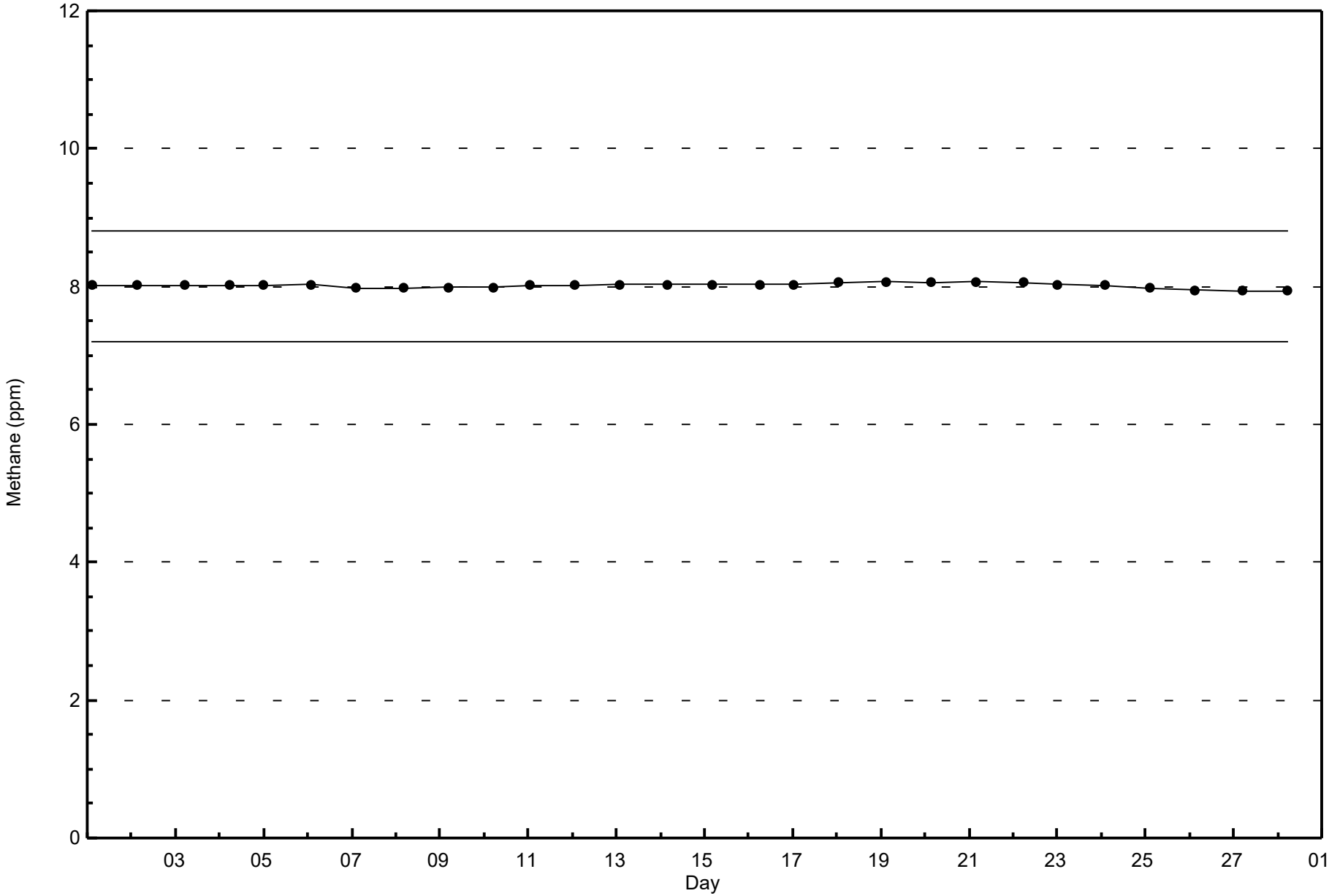


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Conklin - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Conklin - February 2026

Maximum Value: 17.8 ppb on Feb 19 19:00

Maximum Daily Average: 1.6 ppb on Feb 19

Minimum Value: 0.0 ppb on Feb 1 02:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 1.3 ppb at hour 14

Minimum Diurnal Average: 0.0 ppb at hour 4

Monthly Average: 0.47 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.4 P_{90} = 1.1 P_{99} = 7.2

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.9	4.3	0.7	0.4	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	4.3
2-Feb	0.0	Z	0.0	0.0	0.0	0.1	0.2	0.1	0.3	0.5	0.4	1.1	0.5	0.6	0.4	0.4	0.2	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.2	1.1
3-Feb	0.0	6.6	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.2	0.0	0.0	0.1	0.0	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.4	6.6
4-Feb	0.1	0.0	0.1	Z	0.0	0.0	0.1	0.0	0.0	0.3	0.5	0.5	0.6	1.0	1.0	0.5	0.0	3.1	0.0	0.2	0.0	0.0	0.0	0.0	0.3	3.1
5-Feb	0.0	0.7	0.0	0.0	Z	3.6	0.0	0.0	0.0	0.0	0.2	0.5	0.2	0.3	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.6
6-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.2	0.5	1.0	1.4	1.2	0.8	0.2	0.0	7.6	0.0	0.0	0.2	0.0	0.0	0.0	0.6	7.6
7-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.5	0.8	2.7	1.8	0.9	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.7
8-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.9	0.8	0.7	4.2	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.2
9-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.2	0.2	0.2	0.3	0.5	1.4	1.1	1.7	1.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7
10-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	1.3	2.0	2.1	1.8	1.2	1.3	0.7	0.6	1.1	0.3	0.5	0.5	0.3	0.1	0.6	2.1
11-Feb	0.0	0.1	0.1	0.0	Z	0.0	0.0	0.0	0.6	3.2	0.8	0.3	0.2	2.1	0.1	0.0	2.3	0.2	1.4	0.2	0.0	0.0	0.0	0.0	0.5	3.2
12-Feb	0.0	4.7	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.3	4.7
13-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.5	0.5	4.6	0.0	0.0	1.3	0.4	4.6
14-Feb	0.0	Z	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.3	0.3	0.4	0.2	0.1	0.1	0.2	0.1	0.0	1.9	0.5	0.1	0.1	0.0	1.4	0.3	1.9
15-Feb	0.9	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.2	0.8	0.6	0.3	0.7	0.7	0.5	0.1	0.0	0.0	8.5	1.2	0.0	0.0	0.7	8.5
16-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	1.2	8.3	1.6	1.2	1.6	1.4	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.3
17-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.3	0.4	0.7	0.6	0.9	0.6	0.7	0.6	0.2	0.0	0.0	0.0	0.2	0.4	5.0	0.5	5.0
19-Feb	Z	0.4	0.2	0.1	0.0	1.4	0.5	0.4	0.8	0.7	0.6	0.5	0.4	0.4	0.2	0.2	1.3	0.7	17.8	10.4	0.0	0.0	0.0	0.0	1.6	17.8
20-Feb	0.0	Z	0.0	0.0	0.0	0.1	0.2	0.4	1.3	3.4	2.8	3.8	3.0	2.2	2.0	1.6	0.9	0.6	0.0	0.0	0.0	0.0	1.4	0.0	1.0	3.8
21-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.6	1.0	0.7	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0
22-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.2	0.3	0.5	0.5	0.4	0.4	0.3	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.5
23-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.8	0.4	0.7	0.6	0.4	0.4	3.8	0.6	0.2	0.3	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.4	3.8
24-Feb	0.1	0.1	0.3	0.3	0.4	Z	0.3	1.2	0.7	1.0	1.1	0.7	0.7	0.6	0.4	0.4	0.5	1.3	0.3	0.3	0.0	0.0	0.0	0.0	0.5	1.3
25-Feb	Z	0.0	0.0	0.0	0.2	0.0	0.0	0.0	C	C	C	C	C	0.2	0.2	0.3	0.4	0.0	0.0	0.1	0.5	0.3	0.0	0.0	0.1	0.5
26-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.8	0.3	0.5	9.2	1.3	1.1	4.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	9.2
27-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.2	1.1	0.9	0.7	0.5	0.4	0.6	0.4	0.3	0.3	0.2	0.0	5.2	0.0	0.0	0.0	0.0	0.5	5.2
28-Feb	0.1	0.0	0.0	Z	0.0	0.0	0.0	0.4	1.6	1.4	1.0	0.8	0.6	0.4	0.4	0.4	6.6	0.5	0.2	0.2	9.0	0.0	0.1	0.1	1.0	9.0
	0.1	0.5	0.0	0.0	0.0	0.2	0.1	0.1	0.4	0.9	0.7	0.8	0.9	1.3	0.5	0.4	0.7	0.6	0.8	0.7	0.8	0.1	0.1	0.3	Diurnal Average	
	0.9	6.6	0.3	0.3	0.4	3.6	0.5	1.2	1.6	8.3	2.8	3.8	4.3	9.2	2.0	1.6	6.6	7.6	17.8	10.4	9.0	1.2	1.4	5.0	Diurnal Maximum	

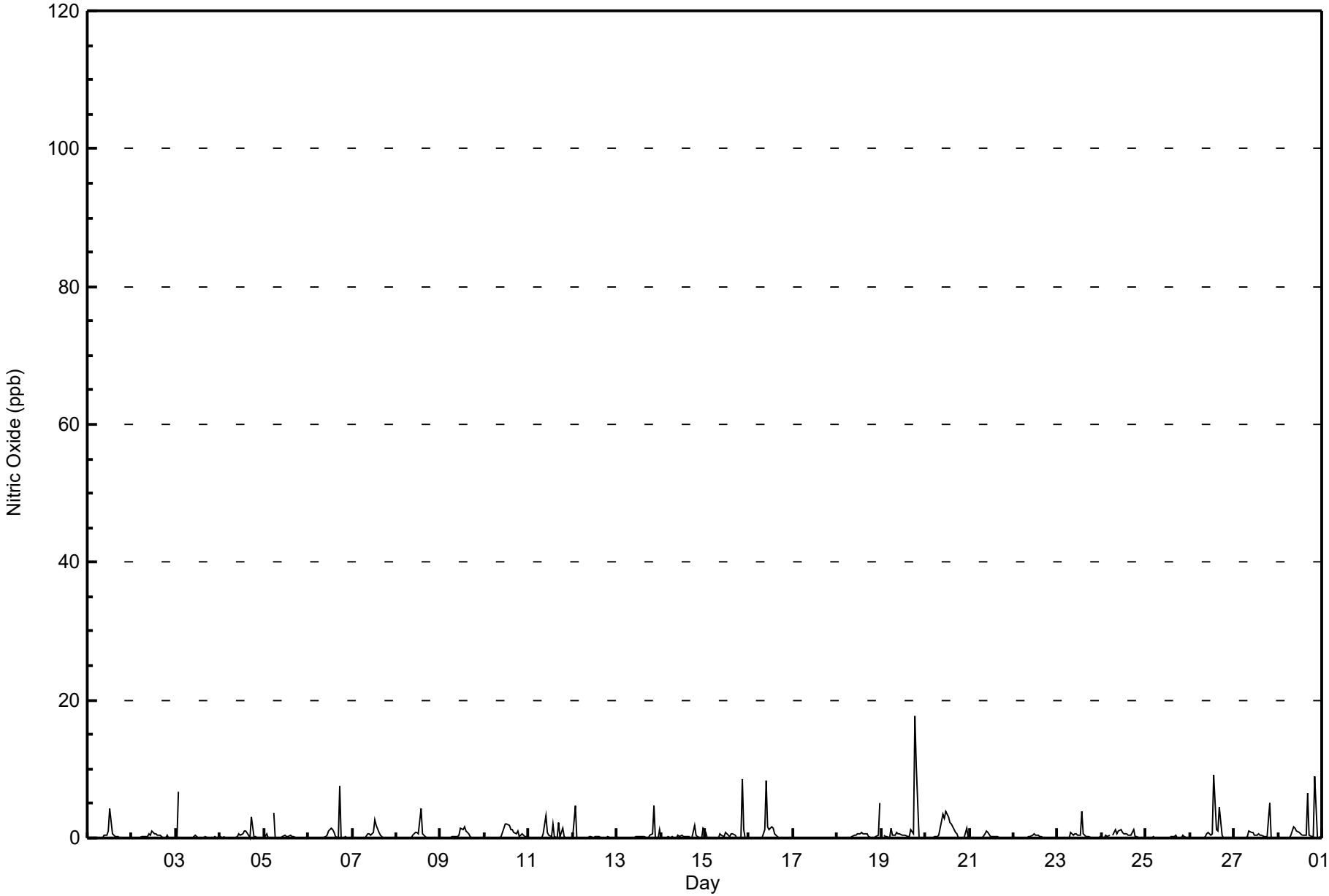
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Conklin - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	639	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Conklin - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	69	41	21	15	19	38	42	38	37	47	66	15	36	26	49	80	639
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	69	41	21	15	19	38	42	38	37	47	66	15	36	26	49	80	639

Total Number of Valid Hours: 639

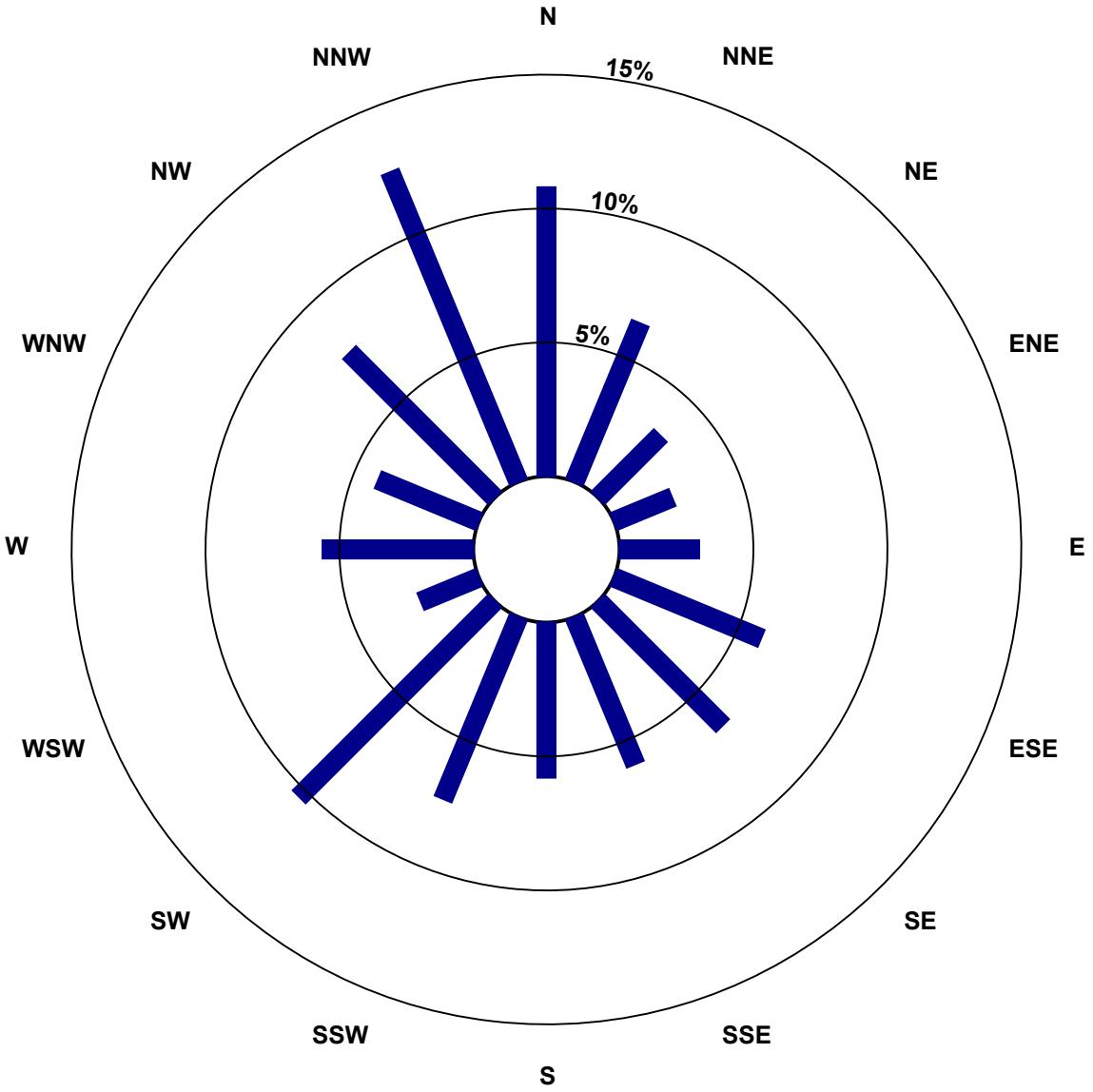
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Conklin



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

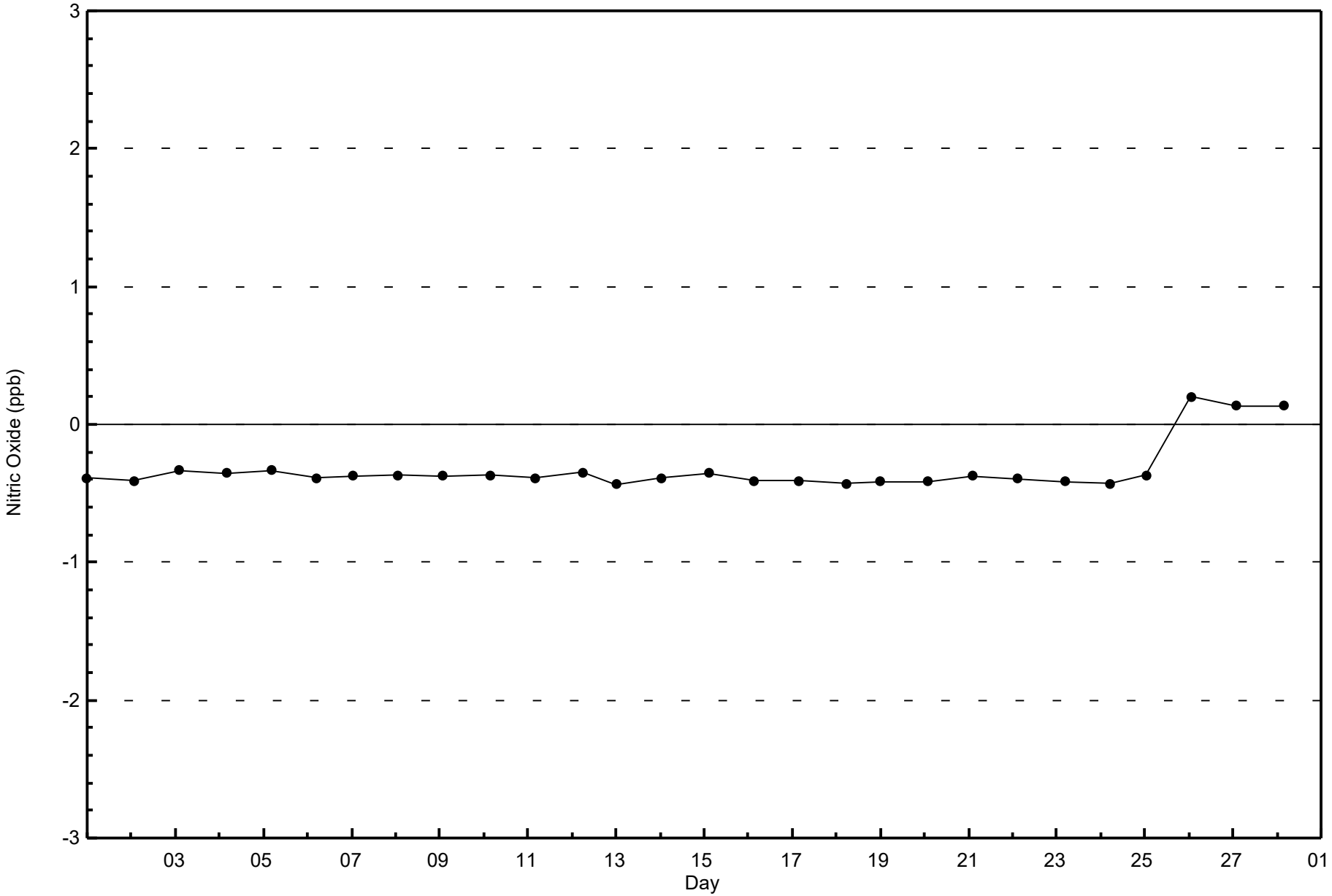
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Conklin - February 2026

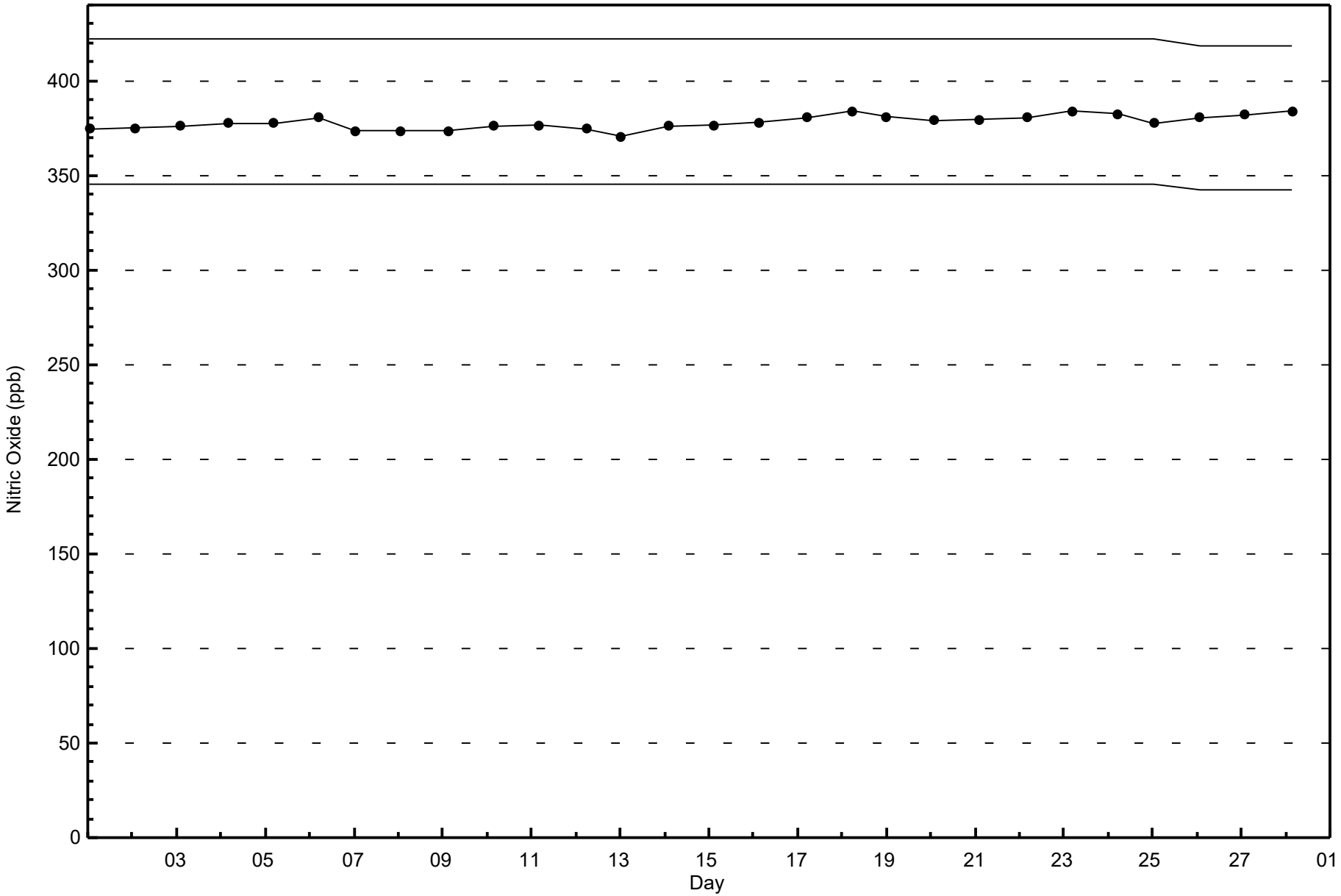


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Conklin - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Conklin - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 14.0 ppb on Feb 14 20:00

Maximum Daily Average: 5.2 ppb on Feb 20

Minimum Value: 0.2 ppb on Feb 16 21:00

Minimum Daily Average: 0.3 ppb on Feb 17

Maximum Diurnal Average: 3.6 ppb at hour 20

Minimum Diurnal Average: 1.7 ppb at hour 12

Monthly Average: 2.52 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.7 Q_1 = 1.0 Median = 2.0 Q_3 = 3.2 P_{90} = 4.9 P_{99} = 10.7

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	5.1	4.7	3.5	2.7	1.9	1.9	2.6	3.1	3.0	3.1	3.8	4.0	3.0	2.8	2.8	2.9	3.8	2.9	2.7	2.8	1.4	1.9	2.5	3.0	5.1
2-Feb	2.8	Z	2.6	2.2	1.7	1.7	1.8	1.7	1.8	2.4	2.2	2.4	2.2	2.2	2.0	2.2	2.2	2.3	2.8	3.8	2.9	4.0	4.7	3.5	2.5	4.7
3-Feb	3.0	5.9	Z	1.7	2.3	1.7	2.1	1.7	0.9	1.5	2.0	1.1	0.7	0.8	0.8	1.1	1.4	1.0	0.7	0.9	0.9	1.5	2.5	2.2	1.7	5.9
4-Feb	2.0	2.0	2.4	Z	2.9	2.6	2.8	2.6	2.8	2.6	2.4	2.1	2.2	3.1	3.2	2.6	1.7	3.7	7.1	3.6	1.5	0.9	0.8	0.7	2.5	7.1
5-Feb	0.8	4.7	5.5	1.7	Z	2.1	1.3	1.9	1.7	2.0	2.4	1.9	1.2	1.1	1.8	2.2	3.5	2.6	2.3	2.2	2.5	3.4	4.1	3.7	2.5	5.5
6-Feb	3.6	3.6	3.5	3.8	3.1	Z	3.4	2.7	2.6	2.6	2.3	2.3	2.6	3.0	2.4	0.9	0.9	6.3	5.2	5.2	4.6	3.6	4.0	3.6	3.3	6.3
7-Feb	Z	2.3	3.1	3.0	2.8	2.0	1.6	2.0	2.7	2.4	1.8	2.1	6.1	4.5	3.7	3.2	3.1	2.0	1.4	1.3	1.2	1.1	1.0	1.0	2.4	6.1
8-Feb	3.7	Z	4.2	3.3	2.8	4.4	4.5	3.0	3.5	3.1	3.3	2.8	2.6	3.4	2.4	2.3	2.2	2.0	1.7	1.7	1.9	1.7	1.1	1.4	2.7	4.5
9-Feb	0.9	1.2	Z	0.9	0.9	1.5	0.9	0.9	0.9	1.1	1.1	1.9	1.7	2.2	2.7	2.6	2.6	2.7	2.5	2.3	1.8	1.6	1.2	1.0	1.6	2.7
10-Feb	1.0	0.7	0.7	Z	0.7	0.6	0.6	0.5	0.5	0.8	1.9	2.2	2.4	3.2	3.5	4.3	4.2	4.8	5.2	4.4	4.5	4.8	4.8	4.6	2.6	5.2
11-Feb	4.5	4.5	4.7	4.1	Z	3.2	2.7	2.4	2.1	4.4	2.2	1.3	0.9	1.5	1.0	0.8	2.3	3.0	4.1	4.7	0.7	0.6	0.7	1.0	2.5	4.7
12-Feb	1.2	1.9	0.9	0.7	0.9	Z	1.0	1.6	1.3	1.3	1.0	0.7	0.8	0.7	0.8	0.8	0.8	1.1	1.1	1.8	1.9	3.0	3.4	2.7	1.4	3.4
13-Feb	Z	2.0	1.6	0.9	0.7	0.5	0.7	0.7	0.6	0.6	1.0	0.9	0.6	0.8	0.6	1.0	1.0	2.0	4.2	2.3	3.3	1.8	1.7	1.6	1.4	4.2
14-Feb	1.0	Z	0.7	0.8	1.0	0.9	1.5	1.5	1.2	1.5	1.3	1.7	1.0	0.9	0.9	1.3	1.3	1.4	8.8	14.0	10.3	3.2	1.0	9.2	2.9	14.0
15-Feb	10.8	1.4	Z	1.1	1.1	1.0	1.3	0.9	2.3	3.4	1.2	2.8	2.4	1.7	4.2	5.2	4.4	5.0	5.6	5.1	10.5	11.4	5.6	4.6	4.0	11.4
16-Feb	4.6	5.1	4.5	Z	4.1	4.5	4.7	4.9	4.1	6.3	1.6	1.2	1.5	1.5	1.0	0.8	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.2	2.3	6.3
17-Feb	0.2	0.2	0.2	0.2	Z	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.6	0.6	0.6	0.3	0.6
18-Feb	0.6	0.7	0.6	0.8	1.1	Z	1.3	1.2	1.0	0.8	0.6	0.6	0.7	0.9	0.7	0.9	1.1	1.5	1.9	2.1	2.3	2.9	4.5	7.4	1.6	7.4
19-Feb	Z	4.9	4.9	3.5	2.8	2.7	1.8	1.8	1.5	0.9	0.6	0.6	0.5	0.5	0.6	0.6	1.4	2.2	10.9	4.8	1.5	2.5	2.3	2.8	2.5	10.9
20-Feb	1.9	Z	2.7	2.6	2.7	2.5	3.1	4.5	3.7	4.9	4.3	5.1	5.1	5.7	5.8	6.2	6.9	10.9	9.1	7.0	6.7	5.7	9.2	3.0	5.2	10.9
21-Feb	5.2	7.9	Z	10.9	9.8	8.3	6.2	5.2	3.8	2.6	1.6	0.9	0.8	0.8	0.9	0.9	1.0	0.9	0.9	0.9	0.8	0.4	0.4	0.4	3.1	10.9
22-Feb	0.5	0.5	0.5	Z	1.9	2.4	2.4	2.1	2.1	1.5	1.4	1.2	1.2	1.1	1.1	1.0	0.9	1.3	0.8	0.6	0.7	0.7	0.9	0.7	1.2	2.4
23-Feb	0.7	0.9	1.2	1.5	Z	1.4	1.6	6.4	2.4	1.7	1.3	1.1	1.4	2.3	1.5	1.3	1.9	2.7	3.1	2.4	2.1	1.7	2.0	2.2	1.9	6.4
24-Feb	1.8	1.8	2.8	2.6	2.8	Z	2.9	2.9	2.3	1.8	1.9	1.4	1.3	1.0	1.1	1.5	1.8	3.7	2.4	2.4	2.7	2.9	3.2	3.1	2.3	3.7
25-Feb	Z	3.5	3.1	3.8	4.4	4.1	4.5	3.3	C	C	C	C	C	0.9	0.7	1.5	2.1	2.1	5.2	8.2	11.5	10.2	1.3	1.2	4.0	11.5
26-Feb	1.2	Z	1.2	1.8	1.6	1.0	1.6	2.3	1.4	2.5	2.1	1.6	2.2	2.8	3.4	5.4	8.0	7.1	4.2	3.5	2.9	3.2	2.3	3.0	2.9	8.0
27-Feb	2.8	2.3	Z	2.2	2.4	4.3	3.9	3.5	3.3	1.9	1.3	0.9	0.8	0.8	0.9	1.0	1.1	2.2	2.6	9.6	6.3	5.2	7.7	8.1	3.3	9.6
28-Feb	8.7	8.0	7.1	Z	5.0	5.1	4.6	4.1	2.7	2.0	1.3	1.1	0.9	0.7	0.8	0.9	1.6	2.3	2.1	1.9	4.8	2.6	2.8	3.1	3.2	8.7
	2.8	3.1	2.8	2.5	2.6	2.5	2.4	2.5	2.1	2.2	1.8	1.7	1.8	1.8	1.8	2.0	2.3	2.9	3.6	3.6	3.4	3.0	2.7	2.8	Diurnal Average	
	10.8	8.0	7.1	10.9	9.8	8.3	6.2	6.4	4.1	6.3	4.3	5.1	6.1	5.7	5.8	6.2	8.0	10.9	10.9	14.0	11.5	11.4	9.2	9.2	Diurnal Maximum	

Z - zerospan C - Calibration

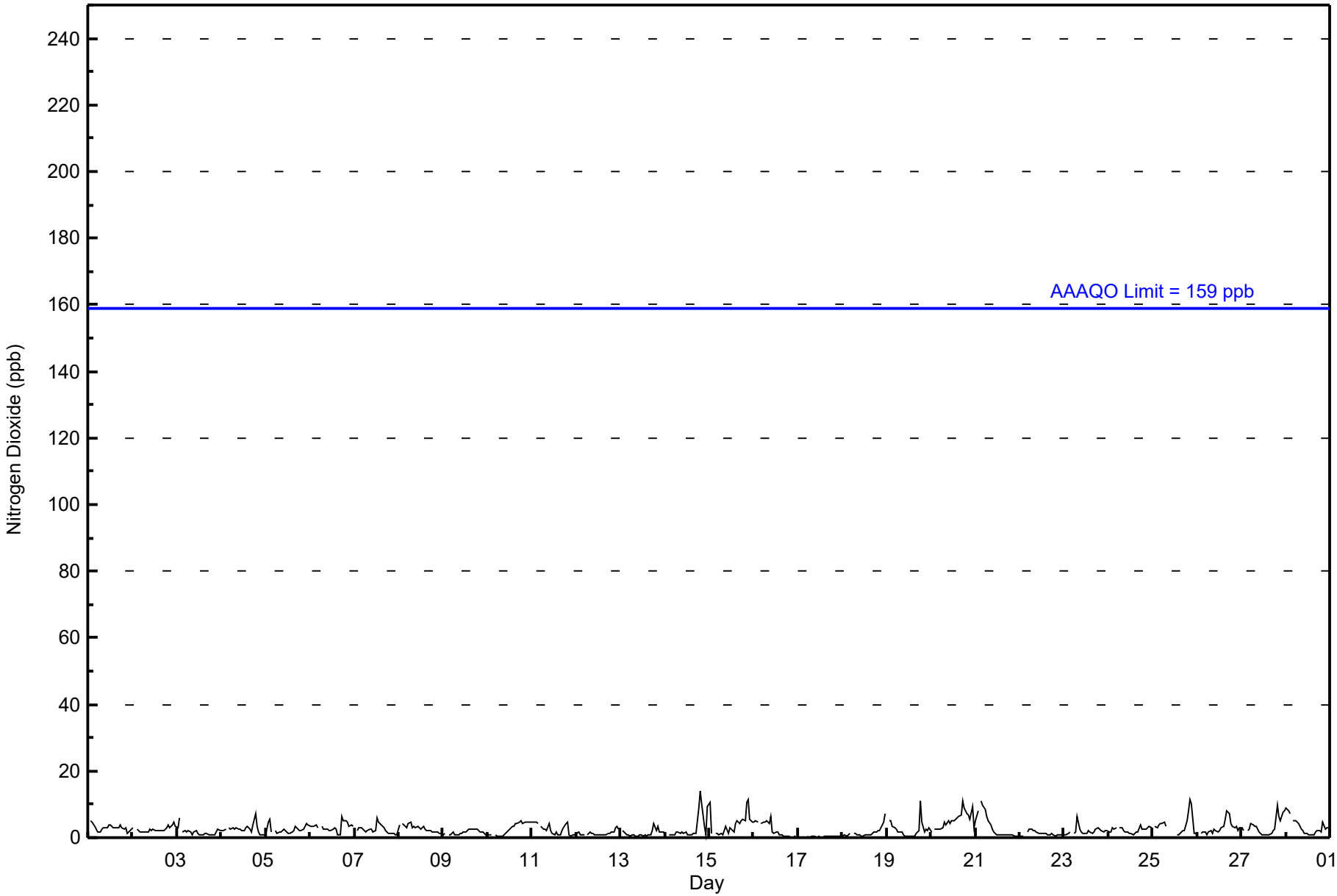
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Conklin - February 2026



Nitrogen Dioxide (NO_2) - ppb

Conklin - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	639	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Conklin - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	69	41	21	15	19	38	42	38	37	47	66	15	36	26	49	80	639
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	69	41	21	15	19	38	42	38	37	47	66	15	36	26	49	80	639

Total Number of Valid Hours: 639

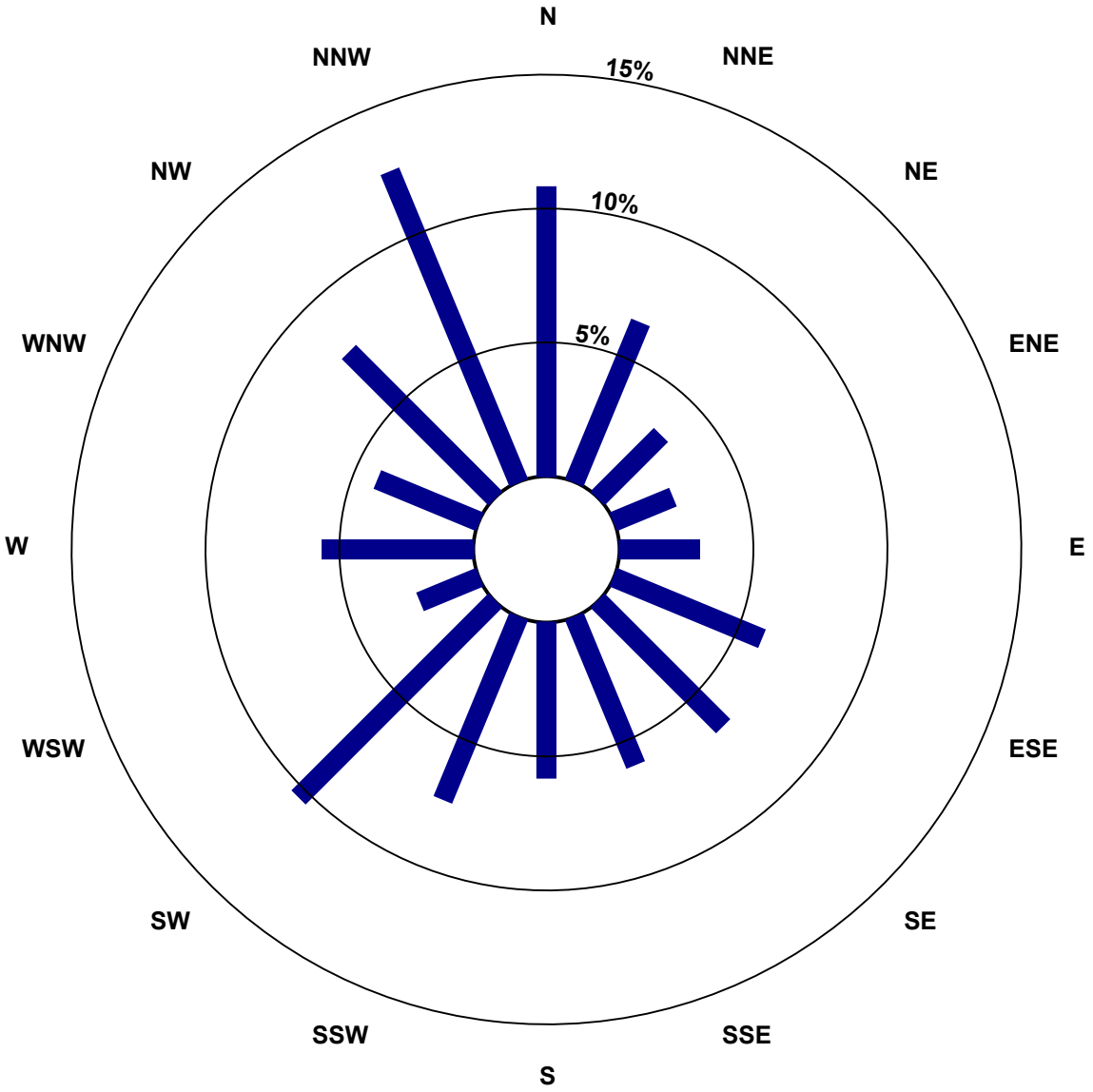
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Conklin



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

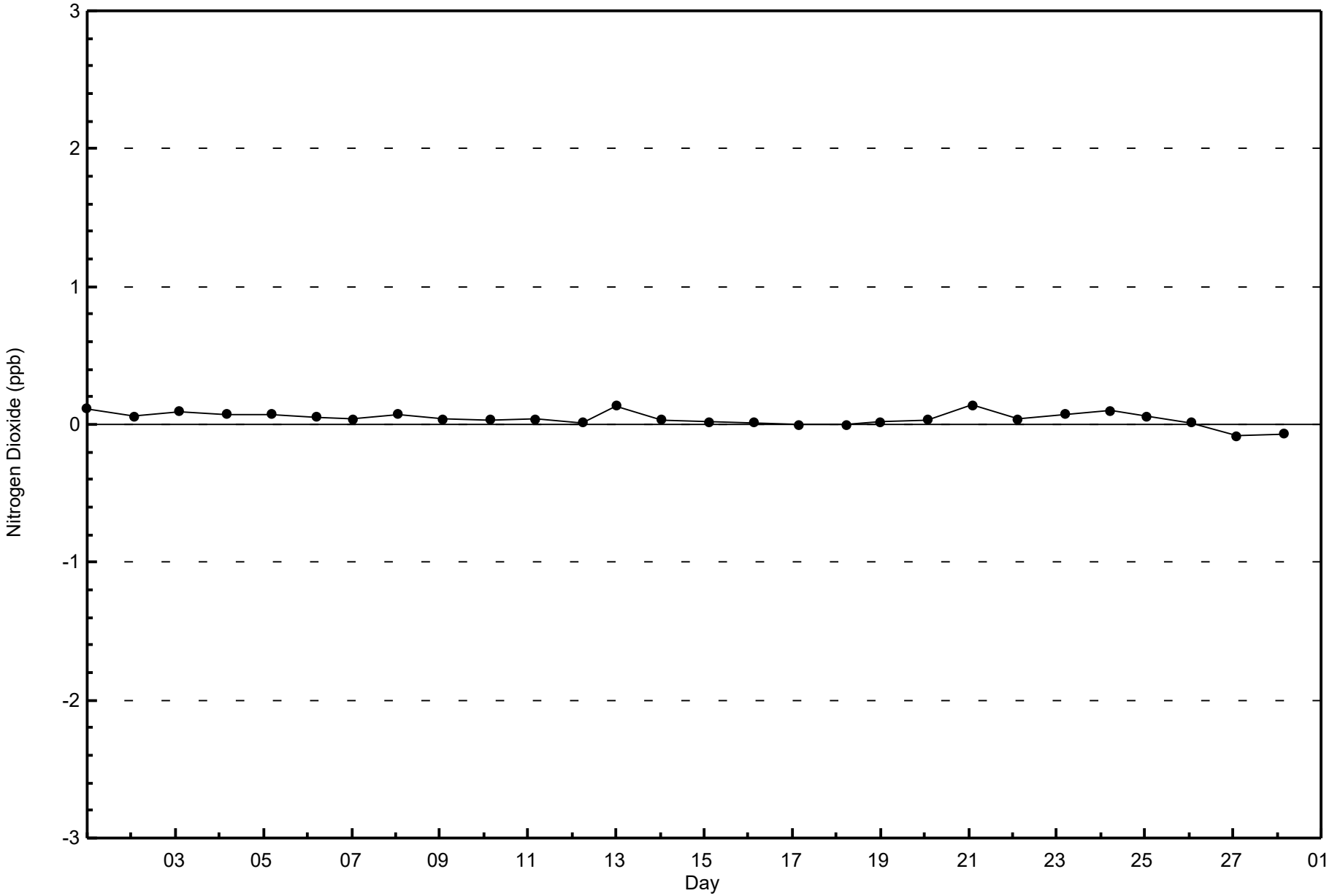
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Conklin - February 2026

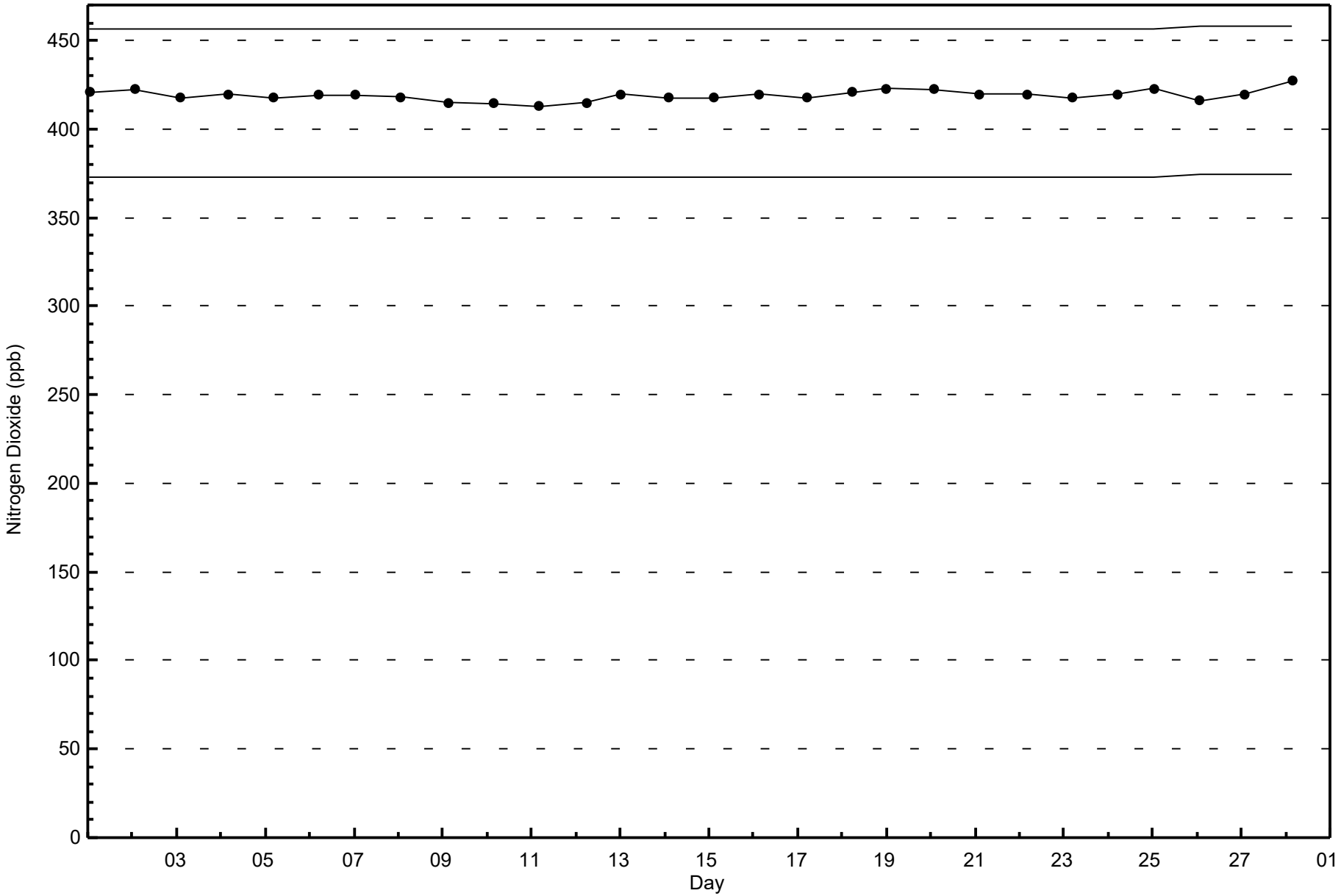


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Conklin - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Conklin - February 2026

Maximum Value: 28.7 ppb on Feb 19 19:00

Maximum Daily Average: 6.2 ppb on Feb 20

Minimum Value: 0.2 ppb on Feb 17 01:00

Minimum Daily Average: 0.3 ppb on Feb 17

Maximum Diurnal Average: 4.4 ppb at hour 19

Minimum Diurnal Average: 2.4 ppb at hour 15

Monthly Average: 2.99 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.7 Q_1 = 1.2 Median = 2.3 Q_3 = 3.6 P_{90} = 5.6 P_{99} = 13.8

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	5.1	4.7	3.5	2.7	1.9	1.9	2.6	3.1	3.3	3.5	4.7	8.3	3.7	3.2	3.0	3.0	3.8	2.9	2.8	2.8	1.4	1.9	2.5	3.3	8.3
2-Feb	2.8	Z	2.6	2.2	1.7	1.8	2.0	1.8	2.1	2.9	2.6	3.5	2.7	2.8	2.4	2.6	2.4	2.3	2.8	4.1	2.9	4.0	4.7	3.5	2.8	4.7
3-Feb	3.0	12.5	Z	1.7	2.3	1.7	2.1	1.7	0.9	1.6	2.4	1.3	0.7	0.8	0.9	1.1	1.6	1.1	0.7	0.9	1.0	1.6	2.6	2.2	2.0	12.5
4-Feb	2.1	2.0	2.5	Z	2.9	2.6	2.9	2.6	2.8	2.9	2.9	2.6	2.8	4.1	4.2	3.1	1.7	6.8	7.1	3.8	1.5	0.9	0.8	0.7	2.9	7.1
5-Feb	0.8	5.4	5.5	1.7	Z	5.7	1.3	1.9	1.7	2.0	2.6	2.4	1.4	1.4	2.2	2.5	3.6	2.6	2.3	2.2	2.5	3.4	4.1	3.7	2.7	5.7
6-Feb	3.6	3.6	3.5	3.8	3.1	Z	3.4	2.7	2.6	2.8	2.8	3.3	4.0	4.2	3.2	1.1	0.9	13.9	5.2	5.2	4.8	3.6	4.0	3.6	3.9	13.9
7-Feb	Z	2.3	3.1	3.0	2.8	2.0	1.6	2.0	3.2	3.0	2.3	2.9	8.8	6.3	4.6	3.6	3.2	2.0	1.4	1.3	1.2	1.1	1.0	1.0	2.8	8.8
8-Feb	3.7	Z	4.2	3.3	2.8	4.4	4.5	3.0	3.6	3.5	4.2	3.6	3.3	7.6	2.9	2.6	2.3	2.0	1.7	1.7	1.9	1.7	1.1	1.4	3.1	7.6
9-Feb	0.9	1.2	Z	0.9	0.9	1.5	1.1	1.1	1.1	1.4	1.6	3.3	2.8	3.9	3.8	3.2	2.8	2.7	2.5	2.3	1.8	1.6	1.2	1.0	1.9	3.9
10-Feb	1.0	0.7	0.7	Z	0.7	0.6	0.6	0.5	0.5	0.9	3.2	4.2	4.5	5.0	4.7	5.6	4.9	5.4	6.3	4.7	5.0	5.3	5.1	4.7	3.3	6.3
11-Feb	4.5	4.6	4.8	4.1	Z	3.2	2.7	2.4	2.7	7.6	3.0	1.6	1.1	3.6	1.1	0.8	4.6	3.2	5.5	4.9	0.7	0.6	0.7	1.0	3.0	7.6
12-Feb	1.2	6.6	0.9	0.7	0.9	Z	1.0	1.6	1.4	1.5	1.1	0.8	0.9	0.8	0.9	0.9	0.9	1.2	1.2	2.0	1.9	3.0	3.4	2.7	1.6	6.6
13-Feb	Z	2.0	1.6	0.9	0.7	0.5	0.7	0.8	0.7	0.7	1.2	1.1	0.8	1.0	0.7	1.1	1.1	2.0	4.7	2.8	7.9	1.8	1.7	2.9	1.7	7.9
14-Feb	1.0	Z	0.7	0.8	1.1	0.9	1.6	1.5	1.2	1.8	1.6	2.1	1.2	1.0	1.0	1.5	1.4	1.4	10.7	14.5	10.4	3.3	1.0	10.6	3.1	14.5
15-Feb	11.7	1.4	Z	1.1	1.1	1.0	1.3	0.9	2.9	3.7	1.4	3.6	3.0	2.0	4.9	5.9	4.9	5.1	5.6	5.1	19.0	12.6	5.6	4.6	4.7	19.0
16-Feb	4.6	5.1	4.5	Z	4.1	4.5	4.7	5.0	5.3	14.6	3.2	2.4	3.1	2.9	1.6	1.1	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.2	3.0	14.6
17-Feb	0.2	0.2	0.2	0.2	Z	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.6	0.6	0.6	0.3	0.6
18-Feb	0.6	0.7	0.6	0.8	1.1	Z	1.3	1.2	1.1	1.1	1.0	1.3	1.3	1.8	1.3	1.6	1.7	1.7	1.9	2.1	2.3	3.1	4.9	12.4	2.0	12.4
19-Feb	Z	5.3	5.1	3.6	2.8	4.1	2.3	2.2	2.3	1.6	1.2	1.1	0.9	0.9	0.8	0.8	2.7	2.9	28.7	15.2	1.5	2.5	2.3	2.8	4.1	28.7
20-Feb	1.9	Z	2.7	2.6	2.7	2.6	3.3	4.9	5.0	8.3	7.1	8.9	8.1	7.9	7.8	7.8	7.8	11.5	9.1	7.0	6.7	5.7	10.6	3.0	6.2	11.5
21-Feb	5.2	7.9	Z	10.9	9.8	8.3	6.2	5.3	4.4	3.6	2.3	1.2	1.1	1.0	1.1	1.0	1.1	0.9	0.9	0.9	0.8	0.4	0.4	0.4	3.3	10.9
22-Feb	0.5	0.5	0.5	Z	1.9	2.4	2.4	2.1	2.3	1.8	1.9	1.7	1.6	1.5	1.4	1.3	1.0	1.3	0.9	0.6	0.7	0.7	0.9	0.7	1.3	2.4
23-Feb	0.7	0.9	1.2	1.5	Z	1.4	1.6	7.2	2.8	2.4	1.9	1.5	1.8	6.1	2.1	1.5	2.2	2.8	3.1	2.5	2.1	1.8	2.1	2.3	2.3	7.2
24-Feb	1.9	1.9	3.1	2.9	3.2	Z	3.2	4.1	3.0	2.8	3.0	2.1	2.0	1.6	1.5	1.9	2.3	5.0	2.7	2.7	2.7	2.9	3.2	3.1	2.7	5.0
25-Feb	Z	3.5	3.1	3.8	4.6	4.1	4.5	3.3	C	C	C	C	C	1.1	0.9	1.8	2.5	2.1	5.2	8.3	12.0	10.5	1.3	1.2	4.1	12.0
26-Feb	1.2	Z	1.2	1.8	1.6	1.0	1.6	2.3	1.5	3.0	2.9	1.9	2.7	12.0	4.7	6.5	12.4	7.5	4.2	3.5	2.9	3.2	2.3	3.0	3.7	12.4
27-Feb	2.8	2.3	Z	2.2	2.4	4.3	3.9	3.7	4.4	2.8	2.0	1.4	1.2	1.4	1.3	1.3	1.4	2.4	2.6	14.8	6.3	5.2	7.7	8.1	3.7	14.8
28-Feb	8.8	8.0	7.1	Z	5.0	5.1	4.6	4.5	4.3	3.4	2.3	1.9	1.5	1.1	1.2	1.3	8.2	2.8	2.3	2.1	13.8	2.6	2.9	3.2	4.3	13.8
	2.8	3.6	2.8	2.5	2.6	2.7	2.4	2.6	2.5	3.2	2.4	2.5	2.7	3.1	2.4	2.4	3.0	3.5	4.4	4.2	4.2	3.0	2.8	3.1	Diurnal Average	
	11.7	12.5	7.1	10.9	9.8	8.3	6.2	7.2	5.3	14.6	7.1	8.9	8.8	12.0	7.8	7.8	12.4	13.9	28.7	15.2	19.0	12.6	10.6	12.4	Diurnal Maximum	

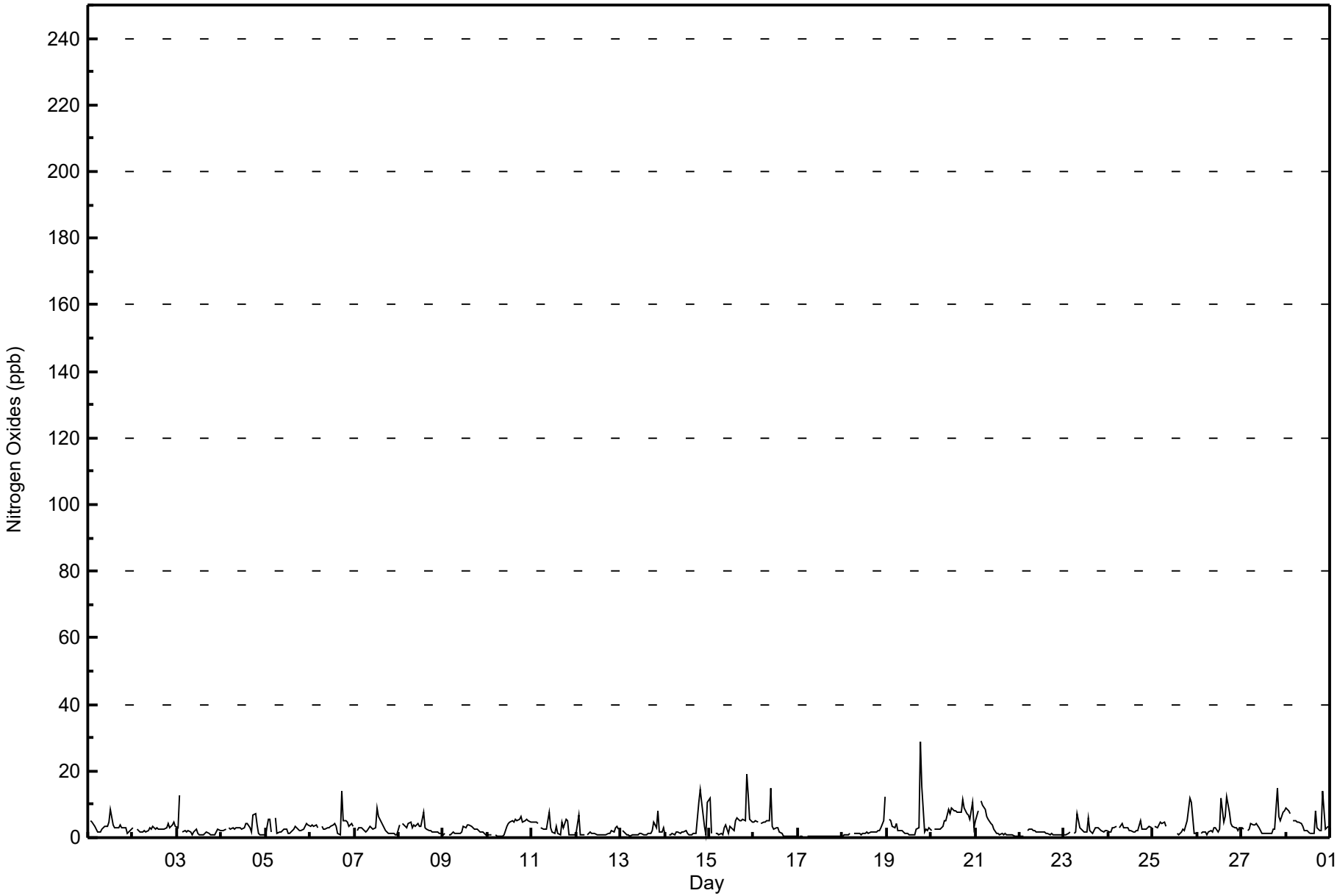
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Conklin - February 2026



Nitrogen Oxides (NO_X) - ppb

Conklin - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	638	99.84	99.84
21 - 40	1	0.16	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Conklin - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	69	41	21	15	19	38	42	37	37	47	66	15	36	26	49	80	638
21 - 40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	69	41	21	15	19	38	42	38	37	47	66	15	36	26	49	80	639

Total Number of Valid Hours: 639

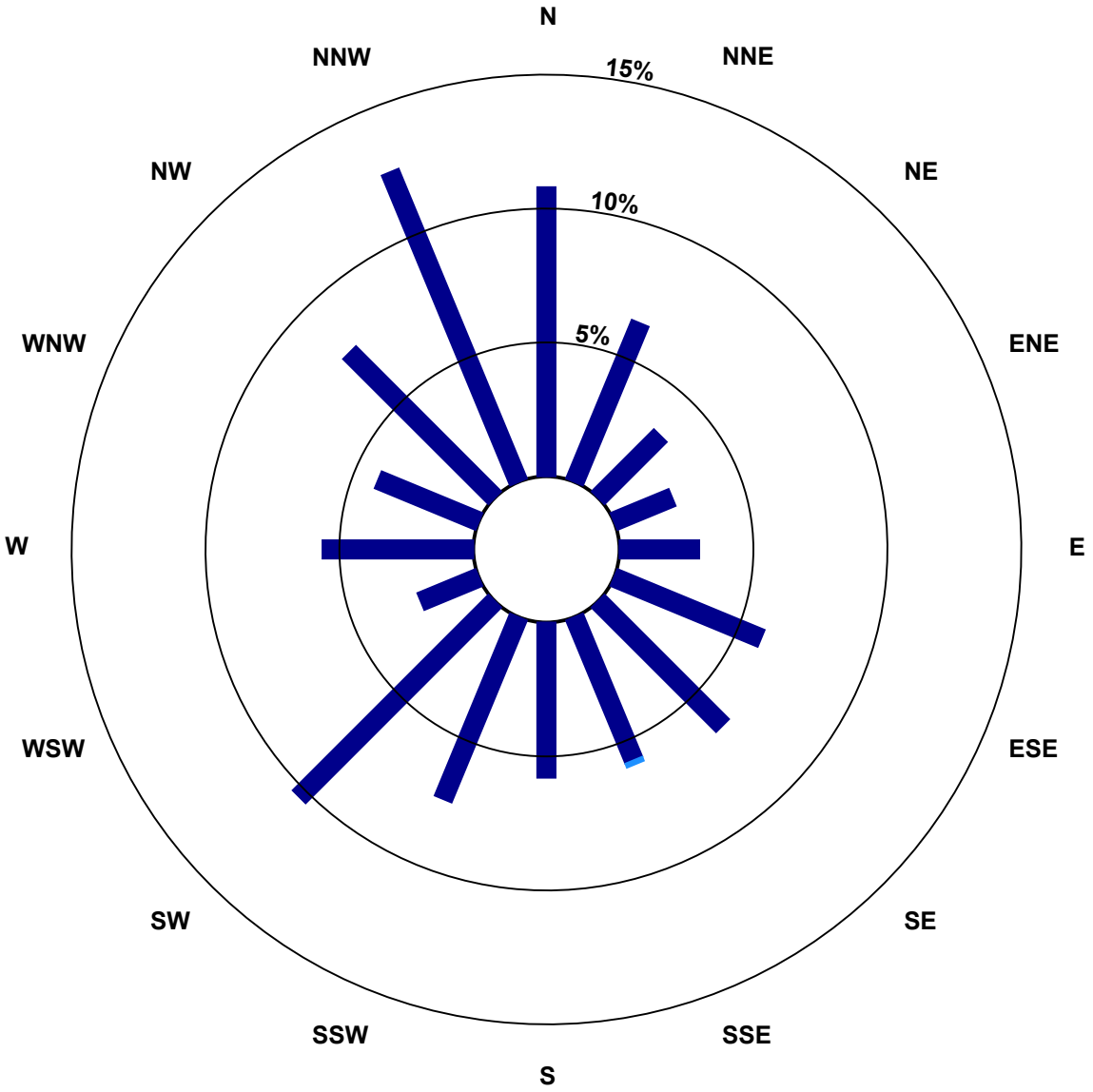
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Conklin



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

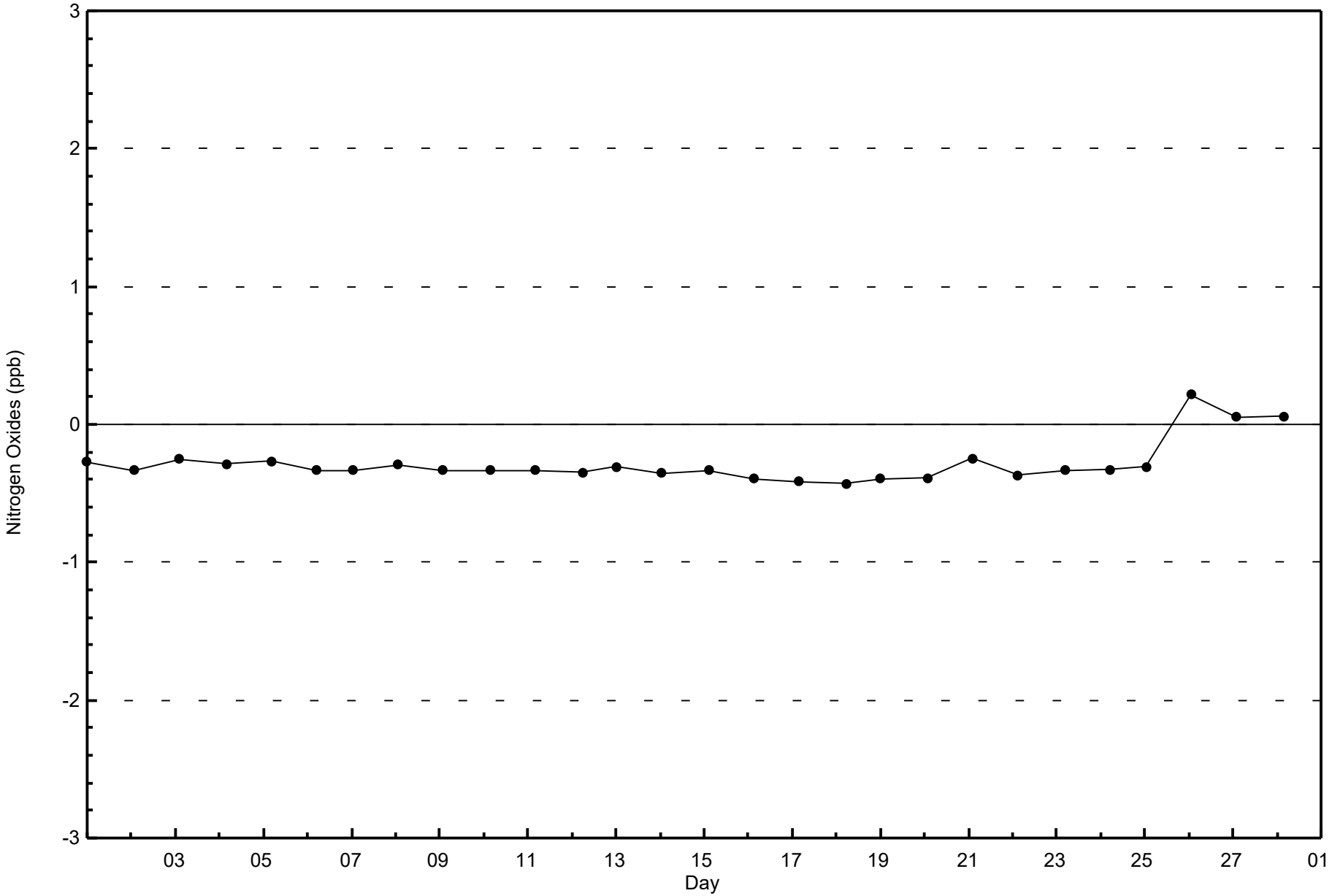
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Conklin - February 2026

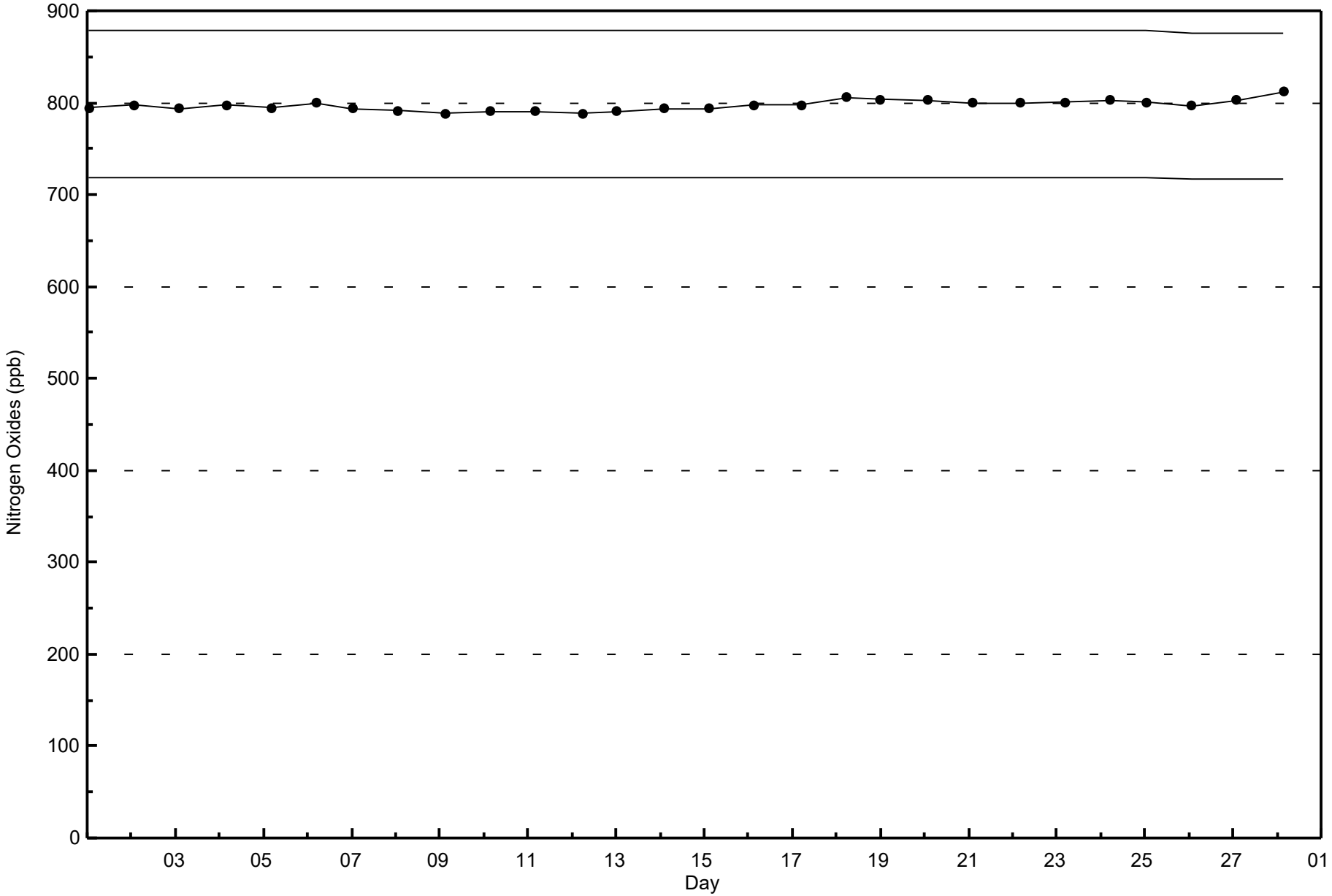


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Conklin - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ozone (O_3) - ppb

Conklin - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 47.1 ppb on Feb 13 15:00 Maximum Daily Average: 42.5 ppb on Feb 12

Minimum Value: 2.9 ppb on Feb 19 01:00 Minimum Daily Average: 14.3 ppb on Feb 18
Maximum Diurnal Average: 31.4 ppb at hour 16 Minimum Diurnal Average: 24.1 ppb at hour 8
Monthly Average: 27.63 ppb Percentiles: P_1 = 6.1 P_{10} = 15.6 Q_1 = 21.5 Median = 27.9 Q_3 = 33.9 P_{90} = 39.7 P_{99} = 45.1

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	29.7	24.9	27.2	29.7	Z	32.3	31.7	29.9	29.2	28.6	27.0	26.1	27.0	28.8	29.2	29.7	30.6	29.8	30.9	31.1	30.1	32.3	32.2	30.9	29.5	32.3
2-Feb	29.8	29.6	29.3	28.7	29.2	Z	30.3	29.7	29.0	28.1	27.5	25.9	25.1	24.7	24.8	25.3	24.8	23.3	21.5	15.0	9.7	9.1	8.2	8.1	23.3	30.3
3-Feb	Z	5.8	10.4	18.4	15.3	16.7	14.7	18.5	28.9	27.4	27.1	24.7	26.4	27.7	28.8	28.2	27.4	28.7	28.6	27.8	26.4	25.8	25.5	26.5	23.3	28.9
4-Feb	28.1	Z	29.3	28.7	28.4	28.6	29.0	29.1	29.3	29.2	30.9	34.8	37.0	37.9	38.1	38.0	38.7	36.2	23.5	25.3	30.8	37.0	36.3	33.8	32.1	38.7
5-Feb	30.5	25.8	Z	27.7	24.3	29.1	28.4	17.0	21.1	23.4	23.5	26.0	29.3	29.0	28.3	28.1	28.5	28.6	26.8	26.4	27.9	26.9	25.9	26.2	26.4	30.5
6-Feb	26.4	25.7	25.0	Z	24.4	22.8	22.2	21.9	21.4	22.0	24.2	25.7	25.6	24.8	24.1	24.7	24.7	19.7	17.0	13.4	11.7	11.3	15.3	14.9	21.3	26.4
7-Feb	19.5	17.9	19.8	21.1	Z	12.0	10.7	9.3	7.5	13.7	15.2	16.5	17.0	18.9	19.4	19.5	19.4	19.8	20.3	20.9	21.0	20.4	19.9	18.8	17.3	21.1
8-Feb	14.1	12.6	13.6	14.2	14.3	Z	12.8	13.9	12.3	11.4	11.4	15.5	16.6	16.3	18.6	19.6	19.5	19.8	21.0	22.0	21.0	21.5	22.7	22.8	16.8	22.8
9-Feb	Z	24.1	23.9	21.6	18.3	16.3	19.5	20.3	19.6	17.2	19.9	20.1	20.0	19.1	18.9	20.6	22.3	21.5	20.8	20.4	21.3	21.3	22.0	22.4	20.5	24.1
10-Feb	21.9	Z	23.4	23.4	23.5	23.1	22.2	21.7	21.1	19.5	18.1	17.0	17.4	18.3	17.1	22.3	29.8	25.9	21.2	23.3	22.6	24.2	26.8	27.2	22.2	29.8
11-Feb	27.8	28.3	Z	29.4	30.1	30.5	30.7	31.2	32.1	30.4	33.3	36.2	39.5	40.3	41.8	42.2	40.7	39.1	31.6	33.2	42.0	41.8	41.4	40.2	35.4	42.2
12-Feb	39.7	39.7	42.0	Z	43.1	42.0	42.2	41.0	42.1	42.0	42.4	42.5	42.9	43.3	43.8	44.1	44.2	45.0	45.1	44.2	43.9	41.4	40.2	41.2	42.5	45.1
13-Feb	41.9	40.8	41.6	45.3	Z	45.6	45.2	45.0	45.0	45.1	C	C	C	C	47.1	46.7	46.2	42.3	34.4	34.6	33.6	34.3	30.6	34.2	41.0	47.1
14-Feb	32.7	35.8	38.4	38.9	39.1	Z	37.8	38.4	36.5	40.4	42.5	42.5	43.6	44.5	44.9	44.7	44.4	43.0	31.2	22.2	23.0	36.1	43.1	31.8	38.1	44.9
15-Feb	Z	37.0	37.4	38.0	37.7	33.9	32.9	29.6	32.1	35.2	38.9	38.2	38.5	38.7	28.3	23.8	23.5	23.3	23.4	22.5	18.2	15.6	21.4	22.2	30.0	38.9
16-Feb	21.4	Z	20.0	17.6	15.9	14.8	13.7	12.9	13.2	13.1	22.7	24.5	23.2	24.0	25.1	24.8	24.4	23.2	23.0	22.6	23.0	23.6	22.8	20.3	20.4	25.1
17-Feb	19.0	18.0	Z	18.7	18.7	19.3	19.3	19.3	19.8	21.3	23.3	25.4	26.7	27.7	27.8	27.5	27.1	28.3	28.9	28.7	27.5	27.1	27.5	27.9	24.1	28.9
18-Feb	27.7	26.8	25.3	Z	21.0	19.2	18.4	17.1	13.4	11.9	12.3	13.3	14.3	15.4	16.7	14.1	11.5	10.9	9.5	8.4	7.7	6.6	4.9	3.0	14.3	27.7
19-Feb	2.9	3.9	3.4	5.0	Z	9.7	11.8	12.2	13.5	14.8	19.3	26.6	29.6	31.0	33.1	34.8	35.5	34.0	28.5	31.9	32.7	29.9	29.0	27.2	21.8	35.5
20-Feb	28.9	27.2	26.7	24.1	22.8	Z	20.3	19.1	20.7	24.1	27.4	27.2	28.0	29.7	31.0	30.7	30.0	24.0	23.5	21.6	20.0	22.3	26.0	37.0	25.8	37.0
21-Feb	Z	28.7	25.6	23.4	22.7	22.8	24.7	24.3	26.1	27.4	33.8	39.2	41.2	42.4	42.1	41.4	40.6	39.8	39.0	38.6	37.5	37.9	36.9	35.1	33.5	42.4
22-Feb	34.7	Z	32.6	31.3	30.2	29.8	29.7	31.2	33.3	34.8	35.7	36.2	36.1	36.7	37.1	37.1	37.9	38.4	39.0	39.7	39.4	38.9	37.9	37.2	35.4	39.7
23-Feb	34.9	33.8	Z	32.3	31.8	31.4	29.8	24.0	31.7	35.3	37.5	38.0	38.0	37.2	38.4	38.7	37.9	36.6	35.4	35.8	35.8	35.7	35.2	34.2	34.8	38.7
24-Feb	33.3	32.2	30.7	Z	28.0	27.9	27.9	26.1	25.9	26.1	27.8	33.1	35.1	35.2	37.2	38.8	37.9	34.9	36.4	36.1	35.8	35.2	33.3	34.3	32.6	38.8
25-Feb	36.2	34.8	33.9	31.8	Z	28.0	25.8	29.2	29.4	30.1	34.1	37.0	39.0	40.3	40.5	41.3	39.8	35.5	28.0	23.5	17.9	16.1	27.5	30.5	31.7	41.3
26-Feb	30.5	30.1	28.6	29.2	29.2	Z	26.5	26.6	28.0	28.0	28.7	28.7	32.4	34.0	28.8	26.3	24.5	24.6	27.8	29.3	28.9	28.0	28.4	26.8	28.4	34.0
27-Feb	Z	26.7	25.7	25.8	25.0	23.2	21.9	20.3	23.4	29.2	31.3	32.4	32.7	32.6	33.6	34.0	33.2	31.8	30.0	21.7	22.0	21.4	18.3	16.4	26.6	34.0
28-Feb	14.9	Z	14.5	16.6	16.4	16.1	15.1	14.9	17.0	28.5	31.4	33.1	31.9	32.9	33.1	32.9	32.2	32.1	33.3	33.7	32.0	33.6	32.6	31.7	26.5	33.7
	27.2	26.5	26.2	25.9	25.6	25.0	24.8	24.1	25.1	26.4	27.7	29.1	30.1	30.8	31.3	31.4	31.3	30.0	27.8	26.9	26.6	27.0	27.6	27.2	Diurnal Average	
	41.9	40.8	42.0	45.3	43.1	45.6	45.2	45.0	45.0	45.1	42.5	42.5	43.6	44.5	47.1	46.7	46.2	45.0	45.1	44.2	43.9	41.8	43.1	41.2	Diurnal Maximum	

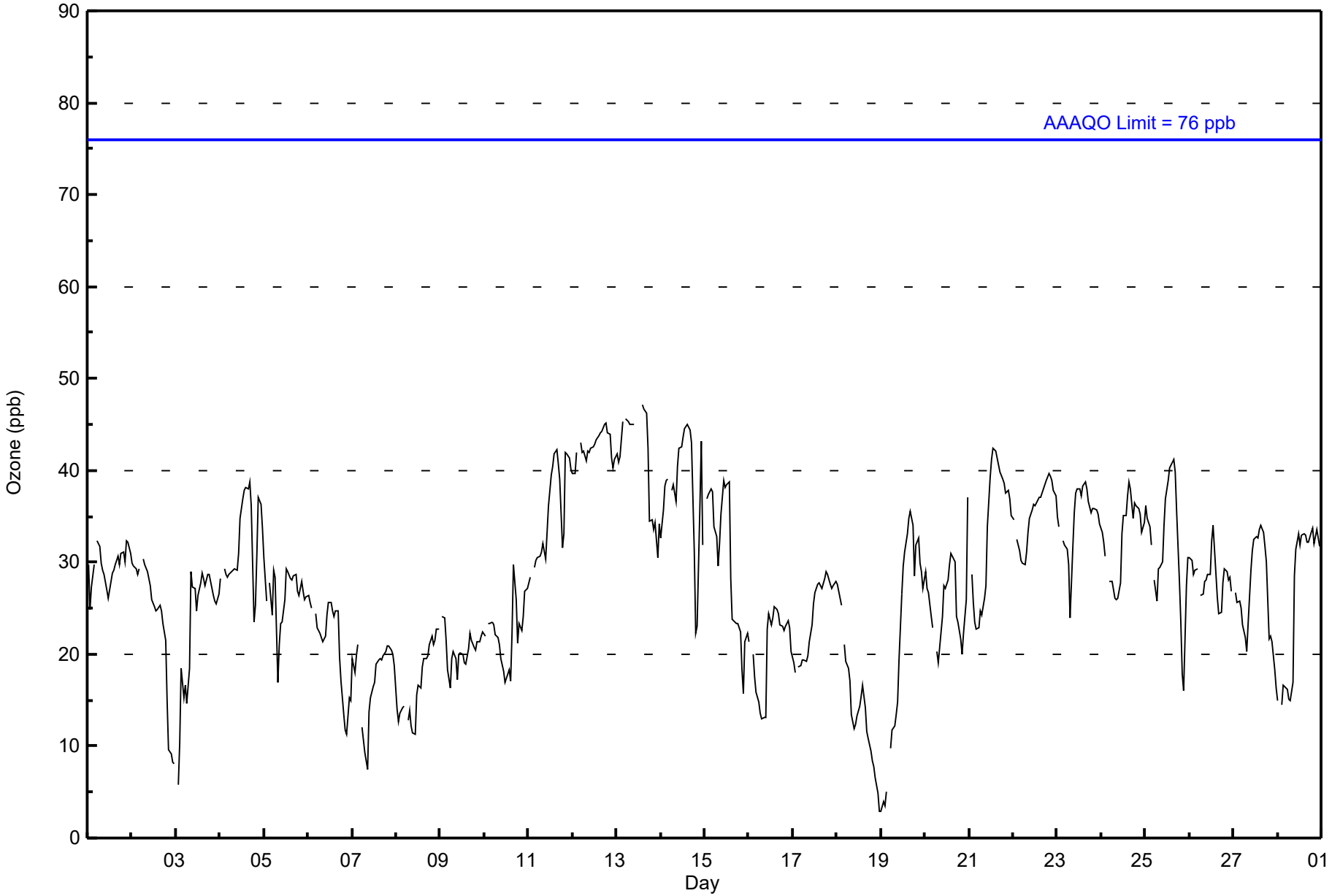
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 76 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ozone (O_3) - ppb

Conklin - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	139	21.72	21.72
21 - 50	501	78.28	100.00
51 - 82	0	0.00	100.00
> 83	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	19	12	6	1	0	5	15	9	9	3	8	0	0	2	21	29	139
21 - 50	50	30	16	14	17	35	27	27	28	43	59	15	32	27	29	52	501
51 - 82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	69	42	22	15	17	40	42	36	37	46	67	15	32	29	50	81	640

Total Number of Valid Hours: 640

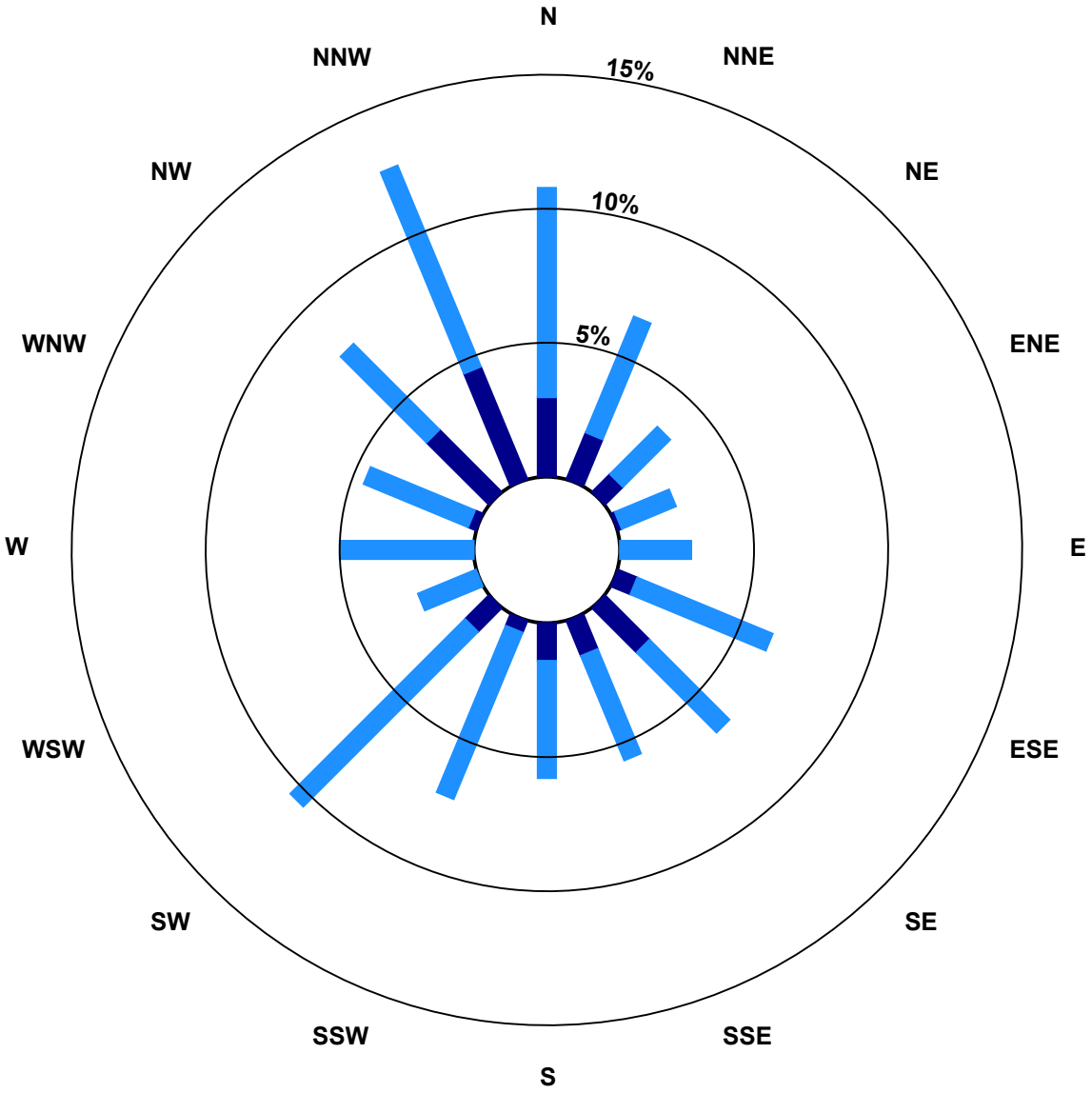
Total Number of Hours: 672

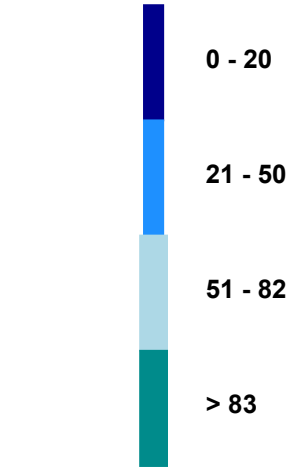
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Ozone (O_3) - ppb

Conklin





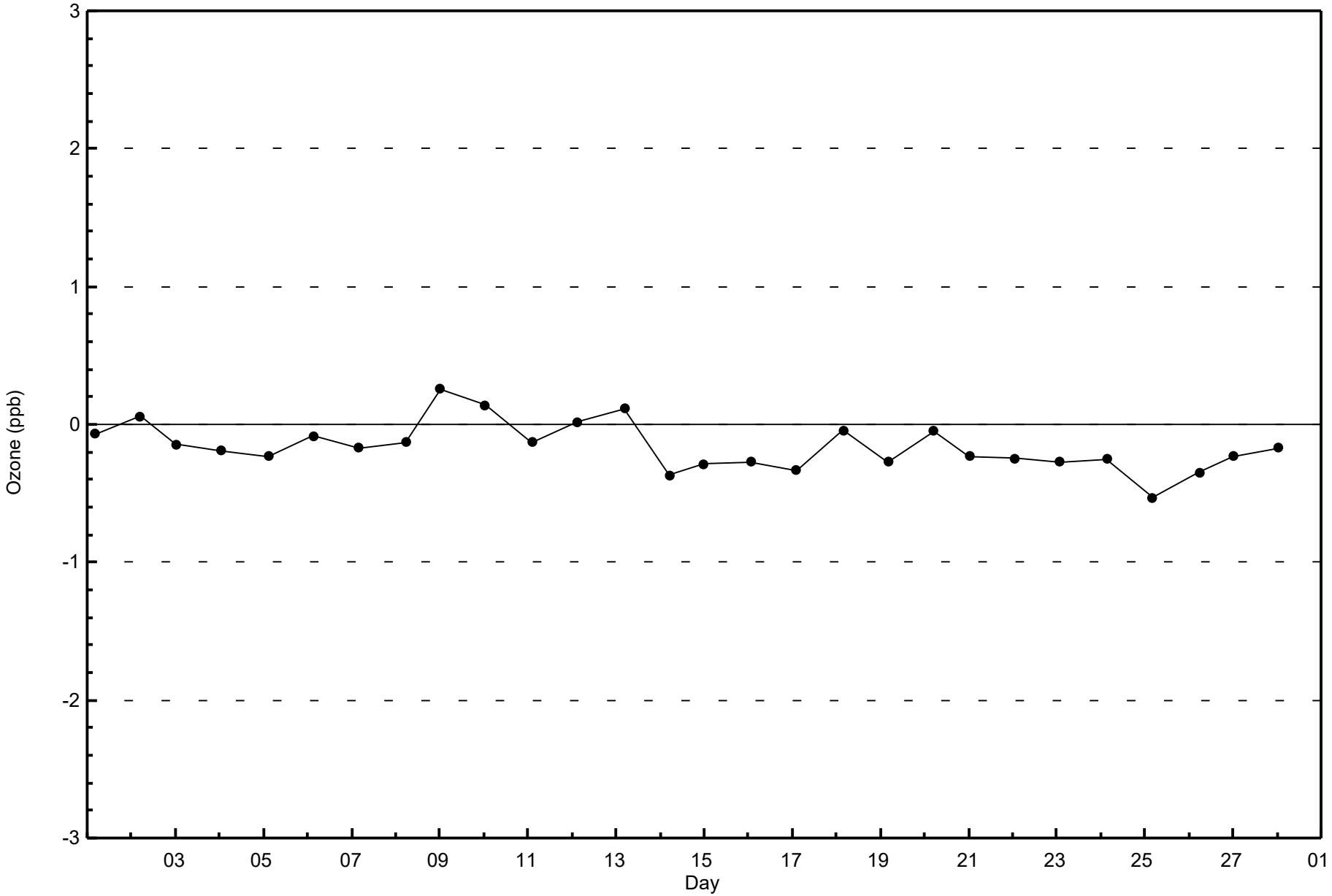
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Ozone (O_3) - ppb

Conklin - February 2026

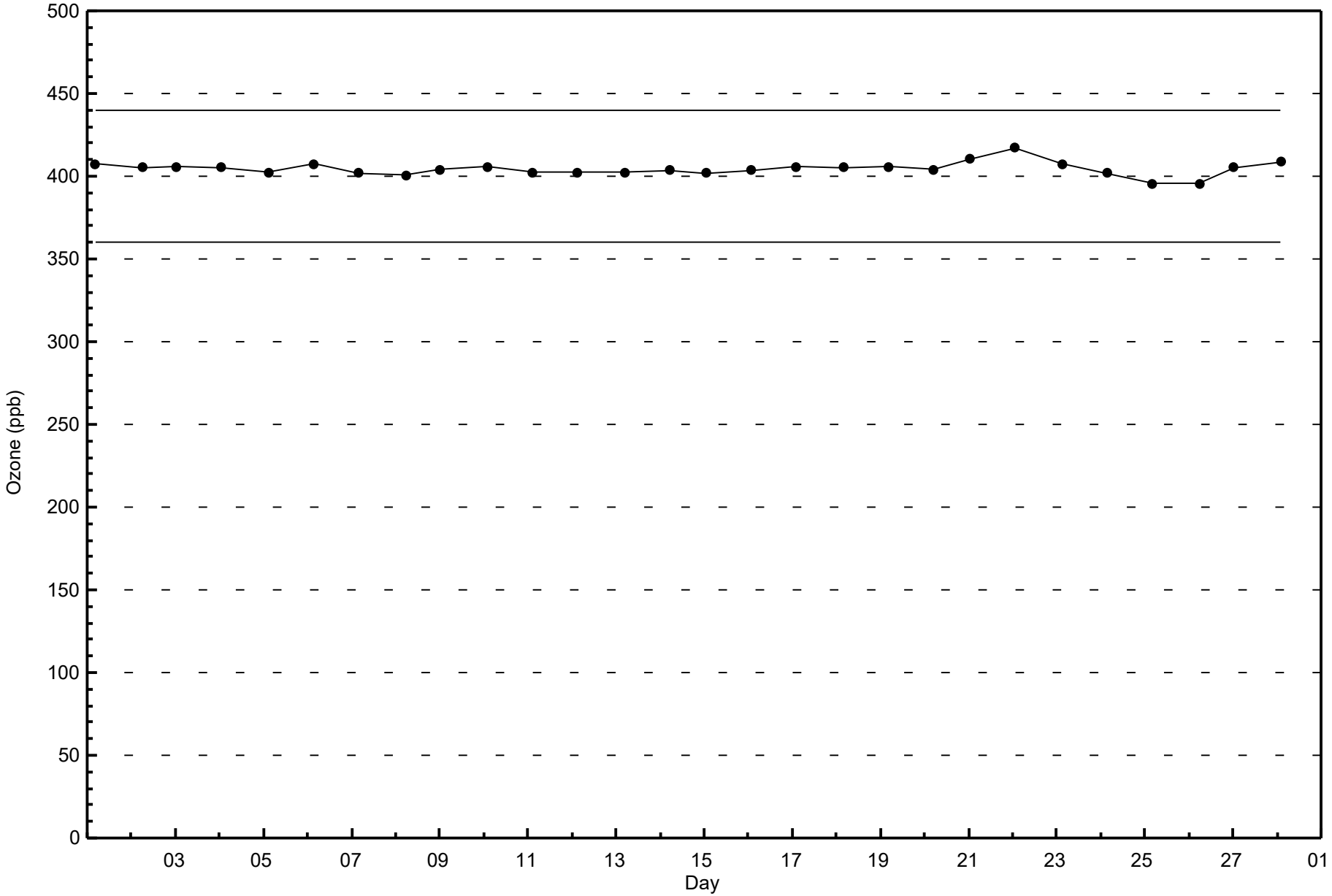


Wood Buffalo Environmental Association

Span Responses

Ozone (O_3) - ppb

Conklin - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Conklin - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 35.3 $\mu g/m^3$ on Feb 9 00:00

Maximum Daily Average: 13.2 $\mu g/m^3$ on Feb 8

Minimum Value: 0.3 $\mu g/m^3$ on Feb 12 14:00

Minimum Daily Average: 1.6 $\mu g/m^3$ on Feb 12

Maximum Diurnal Average: 5.2 $\mu g/m^3$ at hour 24

Minimum Diurnal Average: 3.2 $\mu g/m^3$ at hour 16

Monthly Average: 3.98 $\mu g/m^3$

Percentiles: P_1 = 0.5 P_{10} = 1.4 Q_1 = 2.0 Median = 2.9 Q_3 = 4.7 P_{90} = 7.9 P_{99} = 17.2

Hours in Service:	672
Hours of Data:	670
Hours of Missing Data:	2
Hours of Calibration:	2
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.6	4.6	4.5	3.9	3.9	3.6	3.6	4.0	3.7	3.9	4.4	4.1	4.2	3.4	3.4	3.5	3.3	3.2	2.4	2.4	3.3	2.7	2.6	3.0	3.5	4.6
2-Feb	3.6	3.4	3.5	3.5	3.3	3.2	3.2	3.4	3.6	4.2	5.1	6.9	8.0	7.1	6.2	6.0	7.6	9.1	13.4	11.8	10.3	9.5	9.5	8.7	6.4	13.4
3-Feb	8.4	8.3	6.8	5.2	5.0	5.0	6.5	7.1	5.5	5.7	5.0	4.9	5.3	5.4	6.0	5.9	5.1	4.1	4.2	3.9	3.7	4.2	6.2	5.5	5.5	8.4
4-Feb	4.7	5.0	4.8	5.2	5.6	5.7	6.0	5.9	5.8	5.2	3.5	1.7	0.7	0.6	0.5	0.5	0.5	1.0	1.5	1.3	0.6	0.7	1.1	1.9	2.9	6.0
5-Feb	1.8	2.3	2.4	2.8	2.7	3.0	3.0	3.4	3.3	2.8	3.4	2.9	2.2	2.5	2.7	2.9	12.5	6.9	4.0	4.2	3.0	2.1	2.2	2.2	3.4	12.5
6-Feb	2.5	2.6	2.9	3.1	3.3	3.7	3.7	3.5	3.4	3.2	2.7	2.3	2.5	2.7	2.8	2.9	3.1	4.9	4.2	7.7	4.0	3.9	7.4	3.4	3.6	7.7
7-Feb	3.3	3.5	8.2	6.6	6.5	4.0	4.4	4.5	4.7	5.7	7.5	8.5	5.8	5.6	5.4	5.4	5.5	6.2	7.3	6.8	6.0	7.9	9.4	12.2	6.3	12.2
8-Feb	14.6	20.7	22.1	19.2	18.8	18.6	16.1	13.0	12.7	12.7	11.3	6.6	7.3	7.3	7.4	7.1	7.7	8.8	8.6	12.2	13.9	9.1	5.2	35.3	13.2	35.3
9-Feb	13.1	3.5	3.6	3.7	3.9	4.9	2.9	3.4	4.3	3.6	4.7	5.0	4.8	4.3	4.2	4.8	5.9	6.5	7.4	8.5	9.7	9.4	8.7	8.0	5.8	13.1
10-Feb	8.6	8.4	10.7	11.7	13.7	15.6	17.2	17.3	15.5	15.3	15.2	11.8	10.5	8.9	7.9	5.9	3.2	3.0	3.0	3.0	3.1	3.4	3.7	3.9	9.2	17.3
11-Feb	4.1	4.1	4.6	4.4	4.0	3.8	3.8	3.7	3.7	3.4	2.9	2.6	2.0	1.6	1.0	0.9	0.9	0.8	1.9	1.6	0.8	0.7	1.1	1.9	2.5	4.6
12-Feb	2.5	3.6	2.0	1.7	1.3	1.3	1.2	1.1	1.0	0.8	0.6	0.6	0.4	0.3	0.4	0.4	0.5	0.7	1.4	2.2	3.1	3.8	4.2	3.3	1.6	4.2
13-Feb	2.6	2.7	2.8	2.0	2.0	1.9	1.9	2.0	2.3	2.3	2.3	2.2	2.1	1.8	1.9	2.0	2.1	2.5	2.7	2.5	3.7	2.0	1.7	1.8	2.2	3.7
14-Feb	1.5	1.6	1.5	1.6	1.6	1.8	1.8	1.8	1.8	1.9	2.1	2.4	1.8	1.7	1.8	1.5	1.5	1.9	4.4	6.1	3.8	2.6	2.8	2.9	2.3	6.1
15-Feb	2.8	2.5	2.5	2.3	2.5	2.5	2.4	3.1	5.6	2.1	1.7	2.3	2.3	2.4	2.6	2.9	3.4	3.6	3.7	3.7	4.0	3.3	3.8	3.7	3.0	5.6
16-Feb	3.1	3.3	7.1	4.1	2.4	5.0	5.8	3.3	5.0	3.1	2.1	1.7	2.0	2.8	2.1	1.7	1.7	1.8	1.6	1.5	1.4	1.7	2.8	1.9	2.9	7.1
17-Feb	1.9	1.9	2.0	1.9	2.0	2.3	2.3	2.3	2.4	2.3	2.4	2.5	2.1	2.2	2.2	2.4	2.4	2.2	2.2	2.1	1.9	1.8	1.6	1.5	2.1	2.5
18-Feb	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.4	1.5	3.2	1.9	1.5	2.5	2.5	1.5	1.7	1.9	1.7	5.7	1.9	2.8	1.4	1.5	1.5	2.0	5.7
19-Feb	1.3	1.1	1.7	1.2	1.4	1.4	1.4	1.5	1.5	1.8	2.0	1.7	1.4	1.3	1.2	1.2	1.2	1.3	1.4	1.6	2.6	3.8	4.8	4.8	1.9	4.8
20-Feb	4.1	3.9	3.5	1.9	1.7	1.9	2.3	2.7	2.6	3.6	7.0	9.0	9.2	8.7	8.5	8.9	10.0	7.6	8.0	6.5	6.5	5.4	7.0	2.9	5.6	10.0
21-Feb	2.8	3.6	3.4	3.6	6.0	12.4	2.5	2.2	2.3	1.9	1.8	1.7	2.2	2.0	1.3	1.9	1.7	1.3	1.5	3.1	2.6	2.0	2.1	2.4	2.8	12.4
22-Feb	2.2	2.2	2.8	2.1	2.3	3.2	2.3	2.9	2.8	1.9	1.5	1.4	1.4	1.3	1.3	1.3	1.4	1.4	1.3	1.2	1.0	0.9	0.9	0.9	1.7	3.2
23-Feb	1.1	1.2	1.3	1.4	1.4	1.6	1.8	2.5	2.0	1.9	2.0	2.0	2.1	2.1	2.0	1.9	2.0	1.9	1.9	2.0	2.6	2.1	2.1	2.3	1.9	2.6
24-Feb	2.7	2.8	2.7	2.9	3.5	3.4	3.1	3.3	3.4	3.2	3.0	2.6	2.4	2.4	2.4	2.6	2.2	2.2	3.1	8.8	14.3	13.9	16.5	14.8	5.1	16.5
25-Feb	5.9	3.1	3.7	4.7	5.6	5.8	5.7	4.9	4.7	5.4	3.8	2.9	2.8	2.6	2.0	1.5	1.7	2.2	2.1	2.6	3.4	3.3	2.5	4.3	3.6	5.9
26-Feb	8.9	6.5	4.1	3.7	3.6	3.6	3.6	3.7	C	C	3.7	3.5	3.6	2.4	3.1	3.9	4.1	3.3	2.9	3.8	3.3	3.9	2.3	1.9	3.8	8.9
27-Feb	2.6	5.4	2.5	2.3	2.0	2.0	1.8	1.7	2.1	2.5	1.9	1.7	1.8	1.7	2.6	2.9	2.0	1.9	5.0	6.7	1.8	1.5	2.4	3.7	2.6	6.7
28-Feb	2.7	1.8	3.7	2.2	2.4	2.1	8.6	5.6	3.4	2.7	2.7	2.6	3.0	3.7	5.0	3.9	3.7	4.6	5.3	5.2	5.0	5.1	5.6	5.9	4.0	8.6
	4.2	4.1	4.4	3.9	4.1	4.5	4.3	4.1	4.1	3.9	3.9	3.5	3.4	3.3	3.2	3.2	3.5	3.4	4.0	4.5	4.4	4.0	4.3	5.2	Diurnal Average	
	14.6	20.7	22.1	19.2	18.8	18.6	17.2	17.3	15.5	15.3	15.2	11.8	10.5	8.9	8.5	8.9	12.5	9.1	13.4	12.2	14.3	13.9	16.5	35.3	Diurnal Maximum	

C - Calibration

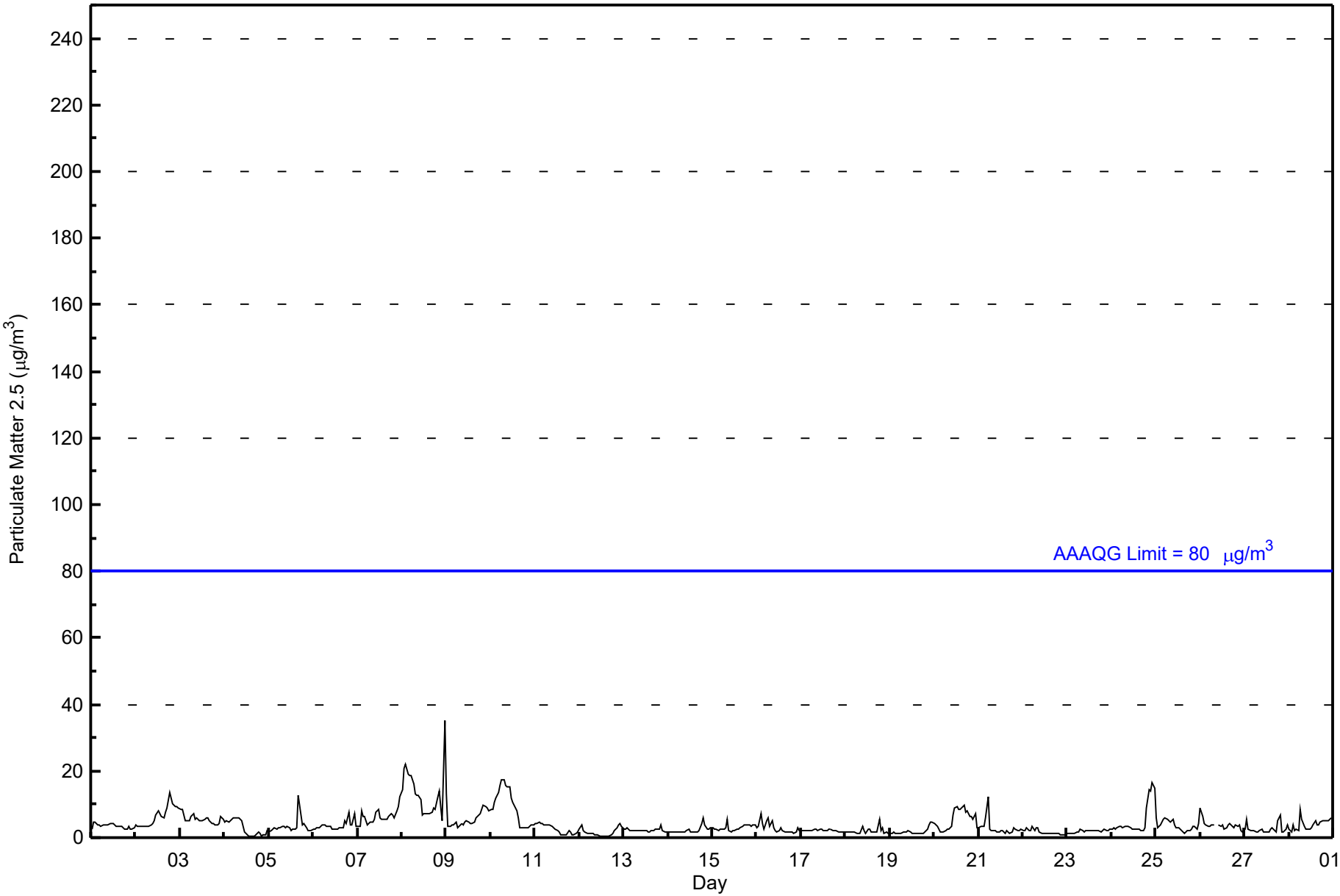
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Conklin - February 2026



Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Conklin - February 2026

Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	540	80.60	80.60
6 - 15	118	17.61	98.21
16 - 25	11	1.64	99.85
26 - 80	1	0.15	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 670

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Conklin - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	55	32	16	14	19	33	35	37	36	35	56	14	37	26	36	59	540
6 - 15	12	10	5	3	1	7	8	4	3	12	13	1	1	3	16	19	118
16 - 25	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	7	11
26 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	69	42	22	17	20	40	44	41	39	47	69	15	38	29	52	86	670

Total Number of Valid Hours: 670

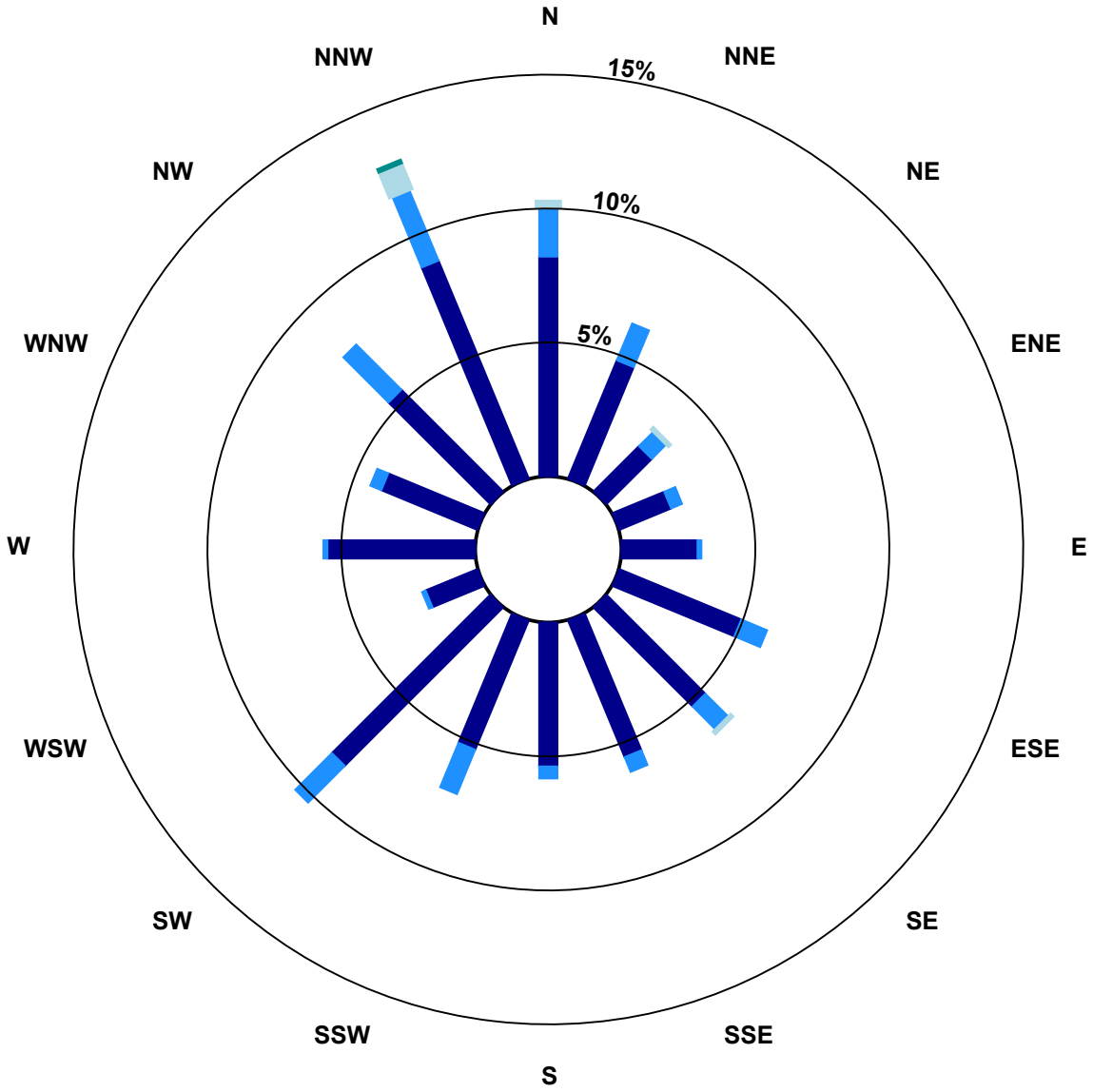
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Conklin



Classes ($\mu g/m^3$)

0 - 5

6 - 15

16 - 25

26 - 80

> 81.0

Total Number of Valid Hours: 670

Maximum Value: 9.8 C on Feb 4 14:00

Maximum Daily Average: 3.5 C on Feb 4

Minimum Value: -43.5 C on Feb 19 03:00

Minimum Daily Average: -31.0 C on Feb 19

Maximum Diurnal Average: -8.0 C at hour 15

Minimum Diurnal Average: -16.0 C at hour 8

Monthly Average: -12.56 C

Percentiles: P_1 = -41.8 P_{10} = -27.7 Q_1 = -20.2 Median = -10.2 Q_3 = -4.8 P_{90} = 0.3 P_{99} = 6.7

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

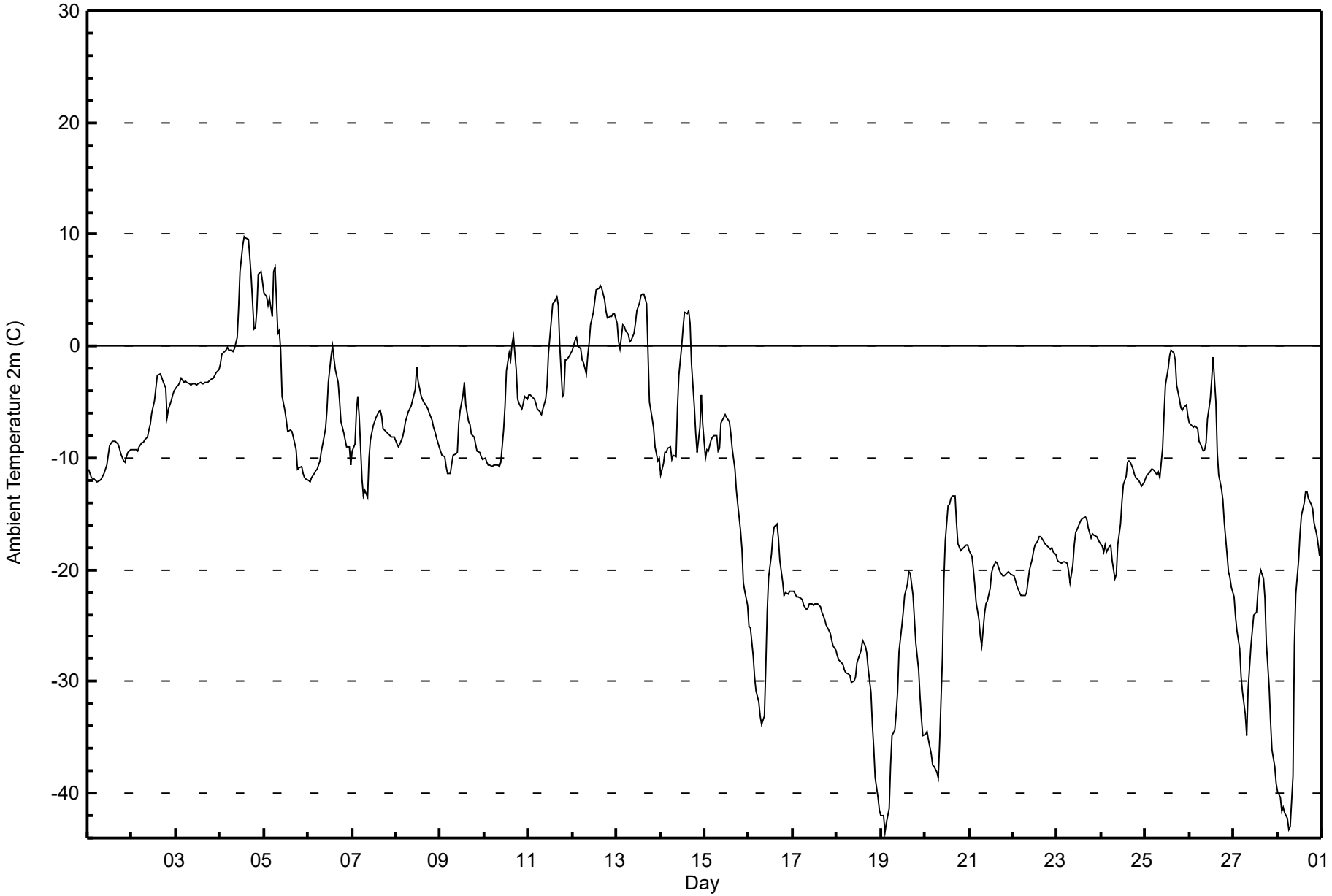
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.0	-11.3	-11.8	-11.9	-12.0	-12.1	-12.1	-11.9	-11.7	-11.4	-10.6	-9.8	-8.9	-8.5	-8.5	-8.5	-8.8	-9.1	-9.6	-10.2	-10.4	-9.9	-9.5	-9.3	-10.4	-8.5
2-Feb	-9.2	-9.3	-9.3	-9.4	-9.0	-8.7	-8.6	-8.4	-8.1	-7.5	-7.0	-6.0	-4.9	-3.8	-2.7	-2.5	-2.7	-3.1	-3.8	-6.3	-5.7	-4.9	-4.4	-4.0	-6.2	-2.5
3-Feb	-3.7	-3.4	-3.2	-2.9	-3.3	-3.1	-3.3	-3.4	-3.5	-3.4	-3.4	-3.4	-3.4	-3.2	-3.3	-3.4	-3.2	-3.2	-3.1	-2.9	-2.9	-2.6	-2.4	-2.1	-3.2	-2.1
4-Feb	-1.6	-0.8	-0.5	-0.3	-0.1	-0.4	-0.3	-0.5	-0.2	0.8	3.4	6.7	9.0	9.8	9.7	9.5	8.0	6.2	1.6	1.7	3.3	6.4	6.7	5.8	3.5	9.8
5-Feb	4.8	4.4	3.6	4.3	2.7	6.6	7.0	1.2	1.4	-0.4	-4.5	-5.7	-6.7	-7.6	-7.5	-7.6	-8.2	-9.2	-11.0	-10.9	-10.7	-11.4	-11.7	-11.9	-3.7	7.0
6-Feb	-12.1	-12.1	-11.8	-11.4	-11.1	-11.0	-10.2	-9.4	-8.7	-7.4	-5.7	-3.3	-0.8	0.0	-1.2	-2.0	-3.2	-4.9	-6.7	-7.7	-8.4	-9.0	-9.0	-10.6	-7.4	0.0
7-Feb	-9.3	-8.7	-5.8	-4.5	-6.2	-11.8	-13.4	-12.9	-13.5	-10.0	-8.4	-7.2	-6.7	-6.4	-5.8	-5.7	-6.3	-7.3	-7.7	-7.8	-7.9	-8.1	-8.1	-8.2	-8.2	-4.5
8-Feb	-8.8	-9.0	-8.8	-8.1	-7.5	-6.8	-5.9	-5.7	-5.3	-4.9	-3.9	-1.8	-3.2	-4.3	-4.7	-4.9	-5.3	-5.6	-6.0	-6.6	-7.2	-7.6	-8.2	-9.0	-6.2	-1.8
9-Feb	-9.4	-9.8	-9.9	-10.8	-11.4	-11.4	-10.5	-9.7	-9.6	-9.5	-6.8	-5.7	-4.3	-3.3	-5.2	-6.8	-7.0	-7.8	-8.1	-8.7	-9.4	-9.6	-9.9	-10.1	-8.5	-3.3
10-Feb	-10.1	-10.4	-10.6	-10.6	-10.7	-10.7	-10.6	-10.6	-10.7	-10.4	-7.5	-5.4	-2.2	-0.6	-1.3	0.1	1.0	-2.1	-4.8	-5.1	-5.6	-5.1	-4.5	-4.7	-6.4	1.0
11-Feb	-4.4	-4.4	-4.7	-4.8	-5.1	-5.6	-5.9	-6.1	-5.6	-4.8	-3.4	-0.6	2.2	3.8	3.9	4.4	3.7	0.2	-4.5	-4.3	-1.2	-1.2	-0.8	-0.6	-2.1	4.4
12-Feb	-0.3	0.5	0.8	0.0	-0.2	-1.3	-1.5	-2.5	-0.8	0.3	2.0	3.0	4.1	5.1	5.2	5.4	5.2	4.2	3.2	2.5	2.6	2.7	2.9	3.0	1.9	5.4
13-Feb	2.0	0.4	-0.2	1.9	1.8	1.4	1.0	0.5	0.5	1.1	2.0	3.1	3.9	4.6	4.6	4.7	3.8	-0.5	-5.0	-6.5	-7.4	-9.0	-10.2	-10.0	-0.5	4.7
14-Feb	-11.5	-10.5	-9.5	-9.5	-9.1	-9.1	-10.1	-9.7	-9.9	-5.5	-2.6	0.0	1.6	3.1	3.0	3.2	2.0	-1.6	-5.4	-7.7	-9.5	-7.3	-4.3	-7.0	-5.3	3.2
15-Feb	-10.0	-9.3	-9.4	-8.4	-8.2	-8.0	-8.0	-9.3	-9.1	-6.9	-6.3	-6.2	-6.3	-6.7	-7.8	-9.1	-11.1	-12.9	-14.2	-16.5	-18.2	-21.2	-21.9	-23.2	-11.2	-6.2
16-Feb	-25.0	-25.2	-27.7	-29.5	-30.8	-31.9	-33.1	-33.9	-33.1	-28.7	-23.7	-20.7	-18.7	-17.1	-16.1	-15.9	-17.2	-19.2	-21.0	-22.3	-22.0	-22.1	-22.0	-21.9	-24.1	-15.9
17-Feb	-21.9	-22.2	-22.5	-22.4	-22.6	-22.7	-23.1	-23.5	-23.5	-23.1	-23.1	-23.2	-23.1	-23.1	-23.2	-23.3	-23.8	-24.4	-24.9	-25.2	-25.7	-26.4	-26.8	-27.1	-23.8	-21.9
18-Feb	-27.7	-28.1	-28.3	-28.5	-29.0	-29.2	-29.3	-29.5	-30.1	-30.0	-29.6	-28.4	-27.6	-27.2	-26.3	-26.8	-27.5	-28.8	-30.9	-33.8	-36.0	-38.6	-40.3	-41.5	-30.5	-26.3
19-Feb	-41.9	-42.0	-43.5	-42.6	-41.3	-37.4	-34.9	-34.4	-32.9	-30.9	-27.3	-25.1	-23.8	-22.4	-21.2	-20.2	-20.4	-22.2	-24.4	-26.6	-28.9	-31.3	-33.4	-34.8	-31.0	-20.2
20-Feb	-34.7	-34.5	-35.2	-36.5	-37.5	-37.7	-38.1	-38.6	-35.3	-27.7	-21.0	-17.4	-14.2	-14.1	-13.6	-13.4	-13.5	-15.8	-17.7	-18.3	-18.2	-18.1	-17.8	-17.7	-24.4	-13.4
21-Feb	-18.2	-18.8	-19.9	-21.3	-23.0	-24.4	-25.9	-26.9	-24.0	-23.0	-22.8	-21.7	-20.3	-19.8	-19.3	-19.5	-19.7	-20.2	-20.5	-20.5	-20.4	-20.2	-20.2	-20.5	-21.3	-18.2
22-Feb	-20.6	-20.9	-21.4	-22.0	-22.3	-22.3	-22.3	-22.0	-21.0	-20.0	-19.1	-18.3	-17.8	-17.4	-17.1	-17.1	-17.4	-17.6	-17.8	-18.0	-18.1	-18.1	-18.4	-18.6	-19.4	-17.1
23-Feb	-19.1	-19.3	-19.4	-19.3	-19.3	-19.4	-20.1	-21.2	-19.6	-17.8	-16.6	-16.4	-15.8	-15.5	-15.3	-15.3	-15.5	-16.3	-17.2	-16.7	-16.9	-17.1	-17.2	-17.5	-17.7	-15.3
24-Feb	-18.0	-18.4	-17.7	-18.4	-17.9	-17.7	-19.1	-20.8	-20.5	-17.8	-15.9	-13.9	-12.3	-11.6	-10.4	-10.2	-10.3	-11.0	-11.5	-11.8	-12.0	-12.2	-12.6	-12.1	-14.8	-10.2
25-Feb	-11.8	-11.5	-11.2	-11.0	-11.0	-11.1	-11.5	-11.2	-11.8	-9.1	-6.1	-3.5	-2.0	-0.9	-0.3	-0.6	-1.3	-3.5	-4.8	-5.5	-5.8	-5.5	-5.2	-6.2	-6.8	-0.3
26-Feb	-6.9	-7.1	-7.2	-7.1	-7.4	-8.4	-8.8	-9.4	-9.3	-8.7	-6.5	-4.7	-3.0	-1.0	-5.0	-9.6	-11.5	-12.8	-13.8	-15.8	-18.7	-20.2	-20.6	-21.5	-10.2	-1.0
27-Feb	-22.5	-24.2	-25.5	-27.0	-29.6	-30.9	-33.0	-34.8	-30.7	-26.8	-25.4	-24.1	-23.8	-21.9	-20.6	-20.1	-20.8	-22.6	-26.6	-30.5	-33.6	-36.0	-37.6	-39.0	-27.8	-20.1
28-Feb	-39.8	-40.4	-41.6	-41.2	-41.7	-42.3	-43.2	-43.0	-38.4	-26.7	-22.1	-19.1	-16.8	-15.1	-14.0	-13.1	-13.0	-13.6	-14.2	-14.5	-15.8	-16.9	-17.8	-18.7	-26.0	-13.0
	-14.4	-14.5	-14.7	-14.8	-15.1	-15.3	-15.5	-16.0	-15.2	-13.2	-11.5	-9.9	-8.8	-8.0	-8.0	-8.2	-8.7	-10.2	-11.8	-12.7	-13.2	-13.6	-13.8	-14.3	Diurnal Average	
	4.8	4.4	3.6	4.3	2.7	6.6	7.0	1.2	1.4	1.1	3.4	6.7	9.0	9.8	9.7	9.5	8.0	6.2	3.2	2.5	3.3	6.4	6.7	5.8	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Conklin - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	173	25.74	25.74
-20 - 0	428	63.69	89.43
0 - 10	71	10.57	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 2m (RH2) - %

Conklin - February 2026

Maximum Value: 98.7 % on Feb 3 03:00

Maximum Daily Average: 94.3 % on Feb 3

Minimum Value: 29.4 % on Feb 13 16:00

Minimum Daily Average: 47.0 % on Feb 13

Maximum Diurnal Average: 81.7 % at hour 8

Minimum Diurnal Average: 66.5 % at hour 14

Monthly Average: 76.83 %

Percentiles: P_1 = 38.3 P_{10} = 57.4 Q_1 = 69.9 Median = 77.7 Q_3 = 88.0 P_{90} = 93.2 P_{99} = 98.0

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

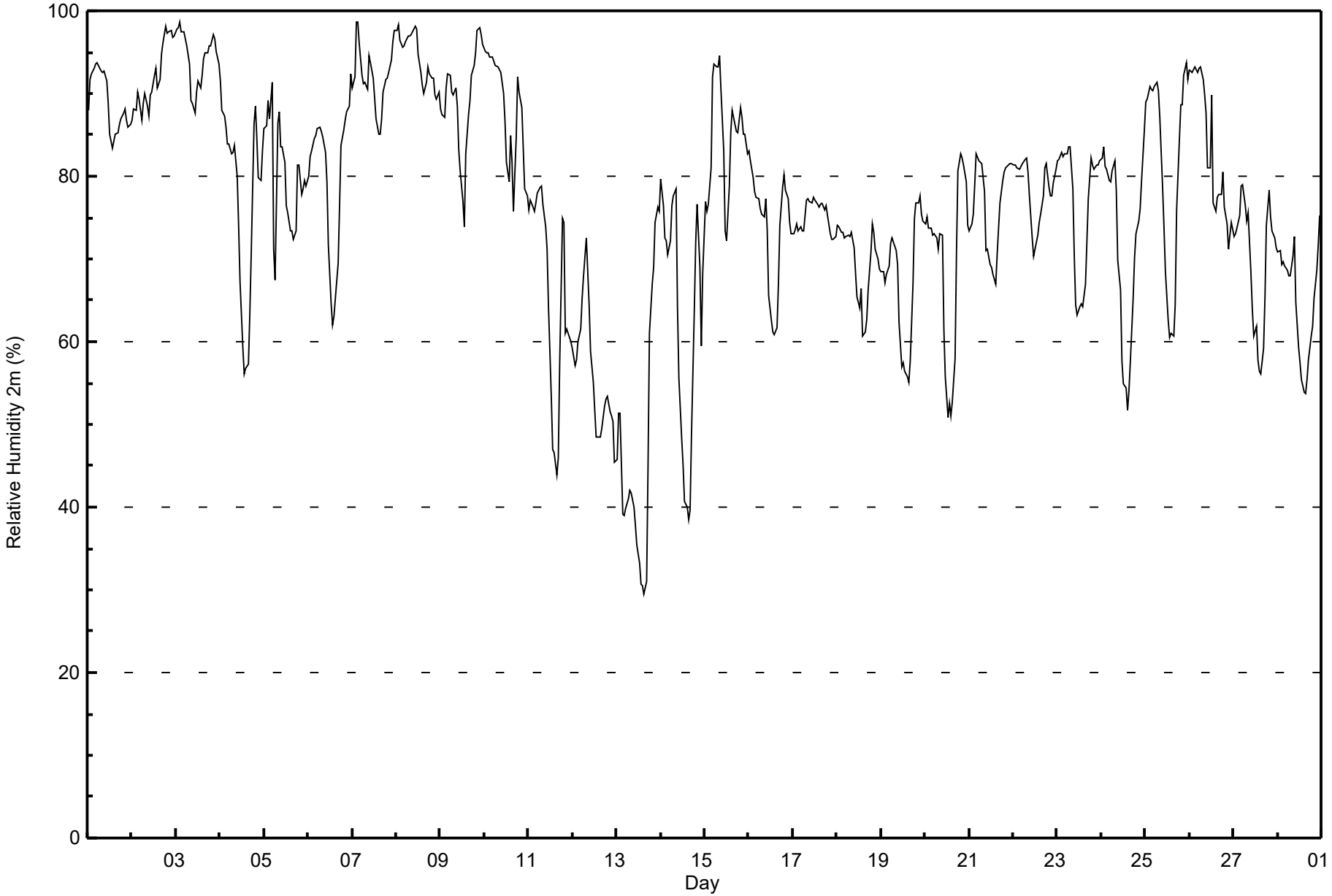
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	88.0	91.7	92.4	93.1	93.6	93.8	93.1	92.7	92.5	92.7	91.5	88.9	85.0	83.5	84.3	85.1	85.2	86.2	86.9	87.6	88.2	86.9	86.0	86.3	89.0	93.8
2-Feb	86.7	88.1	88.0	90.2	89.3	86.9	88.8	90.0	88.5	87.4	89.9	90.2	92.2	93.0	90.7	91.7	94.7	96.1	98.1	97.2	97.4	97.7	96.8	97.0	91.9	98.1
3-Feb	97.8	98.1	98.7	97.4	97.5	96.5	95.8	93.6	89.2	88.8	87.6	90.2	91.4	90.7	92.2	94.2	94.9	94.9	95.8	95.8	97.0	96.6	95.1	93.6	94.3	98.7
4-Feb	91.5	88.0	87.4	85.9	83.8	84.0	82.8	82.9	83.8	80.0	74.1	67.3	59.3	56.0	56.8	57.2	63.3	70.6	86.4	88.4	84.6	79.9	79.5	83.0	77.4	91.5
5-Feb	85.8	86.1	89.1	87.0	91.4	71.1	67.4	86.4	87.8	83.5	83.6	81.7	76.4	75.6	73.4	73.4	72.4	73.4	81.3	81.3	77.8	78.6	79.5	78.9	80.1	91.4
6-Feb	80.0	82.3	83.0	84.6	85.0	85.7	86.0	85.4	84.8	82.9	79.3	71.7	64.6	62.0	63.0	65.2	69.6	76.4	83.8	85.7	86.8	87.9	88.5	92.4	79.9	92.4
7-Feb	90.7	92.0	98.6	98.6	96.2	92.2	91.3	91.3	90.6	94.6	93.7	91.9	89.6	86.9	85.1	85.1	86.9	90.2	91.6	91.8	92.6	94.1	96.2	97.6	92.1	98.6
8-Feb	97.6	98.3	96.4	95.6	95.8	96.4	96.9	96.9	97.1	97.5	98.1	97.9	94.8	92.5	91.1	90.1	91.4	93.2	92.3	91.9	91.8	89.9	89.4	90.1	94.3	98.3
9-Feb	88.1	87.4	87.1	90.6	92.4	92.2	90.2	89.8	90.7	88.5	83.2	80.7	76.9	73.8	82.8	87.4	89.2	92.1	93.3	95.0	97.6	98.0	97.1	95.9	89.2	98.0
10-Feb	95.2	95.0	94.9	94.5	94.4	93.9	93.5	93.3	92.9	92.6	90.1	86.6	81.7	79.3	84.9	81.8	75.8	84.7	92.0	90.2	88.3	83.4	78.5	77.6	88.1	95.2
11-Feb	75.9	77.2	76.3	75.8	76.7	77.9	78.6	78.8	76.6	74.0	71.2	64.2	53.5	46.9	46.6	43.9	46.0	57.5	75.0	74.4	61.1	61.5	60.5	60.0	66.3	78.8
12-Feb	59.2	57.1	57.7	60.0	61.5	65.3	68.0	72.5	68.6	64.5	58.9	55.0	51.6	48.4	48.4	48.4	49.5	52.2	53.0	53.5	51.5	51.0	50.4	45.4	56.3	72.5
13-Feb	45.8	51.4	51.4	39.1	39.0	39.8	41.0	42.1	41.7	40.0	37.9	35.4	33.3	30.7	30.5	29.4	31.0	45.0	61.0	67.0	69.0	74.4	76.3	75.8	47.0	76.3
14-Feb	79.7	76.5	72.5	72.1	70.5	72.1	76.5	77.7	78.5	64.3	55.5	48.3	45.1	40.6	39.9	38.5	39.6	48.7	63.7	72.0	76.5	69.0	59.5	68.2	62.7	79.7
15-Feb	76.9	75.8	76.6	81.1	92.0	93.5	93.2	93.2	94.6	90.5	83.0	73.4	72.3	78.8	85.3	88.0	86.3	85.5	85.3	88.3	87.2	85.2	85.1	82.7	84.7	94.6
16-Feb	83.0	81.9	79.8	78.2	77.5	77.3	76.0	75.5	75.2	77.3	73.6	65.6	62.5	61.2	60.8	61.6	66.9	74.0	78.6	80.1	78.3	77.2	74.4	73.1	73.7	83.0
17-Feb	73.1	73.6	74.2	73.3	73.9	73.4	73.3	77.1	77.4	76.9	76.8	77.5	77.1	76.6	76.3	76.6	76.8	76.0	76.5	75.2	73.1	72.4	72.4	72.8	75.1	77.5
18-Feb	74.1	73.9	73.1	73.3	72.6	72.7	72.8	72.6	73.2	71.4	68.2	65.4	64.1	66.5	60.7	61.1	62.7	66.3	70.9	74.2	73.3	71.2	69.9	68.8	69.7	74.2
19-Feb	68.5	68.5	67.1	68.2	69.2	71.8	72.6	71.5	71.0	69.3	62.5	57.0	57.5	56.5	55.7	55.0	57.7	67.2	74.9	76.8	76.8	77.7	75.4	74.5	67.6	77.7
20-Feb	74.2	75.1	73.7	73.7	72.8	73.0	72.6	71.2	73.0	72.8	61.5	55.8	50.9	52.5	51.0	52.8	58.0	70.9	80.7	82.7	82.2	81.4	79.2	74.1	69.4	82.7
21-Feb	73.4	74.3	75.4	79.0	82.8	81.9	81.7	81.5	78.2	71.0	71.2	69.3	69.0	68.1	67.0	70.4	73.7	76.8	79.4	80.5	81.1	81.4	81.5	81.6	76.3	82.8
22-Feb	81.4	81.3	81.0	80.9	81.1	81.5	82.0	82.2	80.5	77.6	72.6	70.3	71.2	72.9	74.4	75.4	77.6	81.1	81.5	78.6	77.7	77.6	79.1	80.8	78.3	82.2
23-Feb	81.9	82.1	82.8	82.3	82.7	82.7	83.5	83.6	78.5	70.4	64.3	63.3	64.2	64.6	64.3	67.0	72.1	77.4	82.3	81.4	80.9	81.3	81.4	81.8	76.5	83.6
24-Feb	82.2	83.6	81.3	80.8	79.5	79.4	80.7	81.9	78.2	69.8	66.4	57.7	54.9	54.5	51.7	54.0	57.7	65.3	70.2	73.0	74.6	76.1	79.5	85.6	71.6	85.6
25-Feb	88.9	89.4	90.8	90.5	90.4	90.8	91.4	90.4	87.1	78.6	73.7	68.5	62.6	60.5	61.1	60.7	64.6	76.0	84.6	88.6	88.6	92.2	93.7	91.7	81.5	93.7
26-Feb	92.9	92.6	93.0	93.2	92.5	93.0	93.2	91.7	89.8	87.6	81.1	81.1	89.8	76.8	75.8	77.5	77.7	77.8	80.6	76.3	74.2	71.1	72.9	74.5	83.6	93.2
27-Feb	72.6	73.1	73.8	75.2	78.8	79.0	76.5	74.7	75.6	68.4	63.9	60.7	61.9	57.8	56.5	56.1	59.1	65.2	74.0	78.2	75.1	73.4	72.5	71.3	69.7	79.0
28-Feb	70.9	71.0	69.3	69.7	69.2	68.7	67.9	68.0	70.3	72.7	64.8	59.4	57.4	55.4	53.8	53.7	55.5	57.7	60.6	61.9	65.2	68.6	71.8	75.2	64.9	75.2
	80.6	80.9	80.9	80.9	81.5	80.9	81.0	81.7	80.9	78.0	74.2	70.5	68.2	66.5	66.6	67.2	69.1	74.2	79.8	81.0	80.3	79.8	79.4	79.7	Diurnal Average	
	97.8	98.3	98.7	98.6	97.5	96.5	96.9	96.9	97.1	97.5	98.1	97.9	94.8	93.0	92.2	94.2	94.9	96.1	98.1	97.2	97.6	98.0	97.1	97.6	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Conklin - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Conklin - February 2026

Maximum Speed: 19 km/h on Feb 5 10:00

Maximum Daily Speed Average: 13.9 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 16 08:00

Minimum Daily Speed Average: 1.1 km/h on Feb 20

Maximum Diurnal Speed Average: 3.1 km/h at hour 15

Minimum Diurnal Speed Average: 0.2 km/h at hour 19

Monthly Average Velocity: 1.2 km/h 277.9 deg

Percentiles: $P_1 = 0$ $P_{10} = 2$ $Q_1 = 3$ Median = 6 $Q_3 = 9$ $P_{90} = 12$ $P_{99} = 17$

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE2	ENE5	ESE5	E4	E5	E5	ESE5	E5	ESE7	ESE8	SE8	SE9	SE9	SSE10	SE10	SE10	SE10	SE8	SE9	SE6	SE6	SE7	SE6	ESE7	SE6.5	SE10
2-Feb	SE5	SE5	SE6	SE5	SE5	SSE7	SSE8	SSE8	SSE8	S10	S8	SSW7	SSW8	SW8	SW9	SW9	SW7	WSW4	W3	SW2	NW1	SW0	S1	S2	S4.3	S10
3-Feb	ENE0	SW1	NW4	N3	NW1	N4	N5	N5	NNW5	WNW3	WNW4	SW3	SW6	SW5	SSW7	SSW8	S8	S8	SSE7	SSE10	SSE10	SSE10	SSE8	SSE8	SSW2.6	SSE10
4-Feb	SSE9	S9	S14	S15	SSW17	SSW14	SW16	SW17	SW10	WSW9	SW6	W8	W10	WNW10	WNW11	WNW8	W6	W6	SSW5	SSW6	SW7	W10	W9	SW10	SW8.1	SSW17
5-Feb	SW9	SSW6	SSE5	SW6	WNW3	WNW11	NW9	N5	NNW11	NNW19	NNW18	NW13	NNW13	NW12	NNW8	NNW8	N8	N6	NNE3	N2	E5	ENE5	NE4	NE5	NNW5.2	NNW19
6-Feb	ENE4	E3	E5	E5	NE4	ENE5	ENE3	NNE3	N3	NNE2	ENE4	ESE6	E6	ENE2	NNW5	NNW6	NNW6	NNW3	NW1	N2	NW2	NW4	NNW4	NNW4	NE2.5	E6
7-Feb	SSE3	S5	SW3	SSW5	SW5	NNW5	NNW3	NNW2	NNW3	NW3	NNW5	NNE4	N4	N6	NE3	NNE5	N5	N6	NE5	NE5	ENE5	NE4	NE4	NNE4	NNE2.1	N6
8-Feb	NNW6	NNW7	NNW3	NE1	NNW2	NNW3	NNW3	WNW2	SE2	NNW1	NW3	NW7	NW9	NW8	NW9	NW8	NW8	NW8	NW7	NNW8	NNW5	NW6	NW7	NNW7	NW5.1	NW9
9-Feb	NW6	WNW3	W3	SSW1	ESE0	SSW1	SSE2	S4	SE1	SE3	SE2	NNW5	N4	N5	N8	N7	NNE5	NNE5	ENE4	NNE5	NNE5	NNE4	NNE6	NNE4	NNE2.3	N8
10-Feb	NNE3	NNW4	NNW4	NNW3	NNW4	NNW2	N1	NNW2	N1	N1	SE3	SSE2	SE3	SE3	SE4	SSE5	S8	S7	S8	S9	S9	S9	SSW10	SSW11	S2.4	SSW11
11-Feb	SSW10	SW10	SSW11	SW12	SW12	SW12	SW13	SW13	SW13	SW12	SW12	SW11	SW12	SW12	WSW11	WSW12	SW7	SSW5	SSE4	SW7	SW11	SW10	SW11	SW10	SW10.3	SW13
12-Feb	SW11	SW10	SW9	SW9	WSW10	SW9	WSW8	WSW7	W10	WNW8	W8	WSW8	SW10	SW12	SW10	SW8	SSW10	SSW11	SSW12	SSW12	SSW16	SSW16	SW11	SW12	SW9.4	SSW16
13-Feb	SW10	SW10	SW9	W12	W14	W14	W15	W14	W14	W15	W12	W10	W11	W12	W11	W9	W6	SW4	S4	SSW6	SE2	ESE5	SSE6	SSE4	WSW8.0	W15
14-Feb	SSE5	S7	S7	S6	S7	SSE5	SE5	SSE4	SSE4	S7	SW8	WSW5	W6	WNW8	WNW7	WNW7	WNW7	W3	SSW3	SSW3	S5	W4	WNW5	SSW2	SW3.2	SW8
15-Feb	S5	SSE5	SSE4	S4	SSE2	SSE1	S2	SE1	NNW3	NW3	NNW5	NNW8	NNW8	NNW8	N8	NNE7	NNE7	NNE6	NNE6	NNE2	NNE2	N3	N2	N3	N2.3	NNW8
16-Feb	NNW5	NW1	NNW1	NNW2	NNW0	S0	SSW0	ENE0	NNW0	WNW1	SE4	ESE6	ESE6	ENE8	NE8	NE8	NNE8	N6	N4	N5	N5	N6	NNE7	NNE8	NNE3.2	NNE8
17-Feb	NNE7	N8	N10	NNE10	NNE12	NNE12	NNE13	NNE12	N13	N15	NNE15	N16	N17	N16	N17	N18	N16	N16	N16	N15	N17	N17	N16	N14	N13.9	N18
18-Feb	N14	N14	N12	N12	N13	N9	N9	NNW10	NNW8	NNW9	NNW10	NNW9	NW7	NW7	NW8	NW8	NW7	NNW5	NNW4	NNW2	NW2	S1	SSE1	SSE2	NNW7.1	N14
19-Feb	SSE2	SE2	SSE1	SE4	SSE4	S7	SW8	SW7	SSW7	SW8	SW7	SW7	SSW10	SSW10	SW11	SW9	SSW9	S5	S4	SSE4	ESE2	ESE2	NNE1	ENE2	SSW4.6	SW11
20-Feb	ESE2	ESE2	ESE2	SE3	SSE3	SE3	SE3	SE2	SSE2	SSW3	SW4	SSW4	E3	ESE4	ESE4	ESE4	NE3	ESE2	NW0	NNW1	NNW1	NNW4	NNW5	N6	ESE1.1	N6
21-Feb	NNW4	N5	N5	N2	N3	NNW4	NNW4	N4	N8	NNE10	NNE10	NE9	NNE9	NE8	ENE7	NE7	NE6	NNE7	NNE7	NNE5	NNE5	NE4	NE3	NNE5	NNE5.5	NNE10
22-Feb	NE6	ENE4	ENE5	ENE5	NE4	NE2	N1	NE2	E4	ESE8	ESE9	ESE10	E9	E9	E9	E10	ESE11	ESE9	ESE9	ESE11	ESE8	ESE7	ESE5	E5	E6.3	ESE11
23-Feb	ESE6	ESE4	E3	E3	E2	S1	SE1	S1	WSW3	WNW4	NW4	W2	NW3	WNW5	W6	NW5	WNW4	WNW3	NW2	WNW2	NW2	WNW2	WNW3	W4	WNW1.5	ESE6
24-Feb	W4	WSW5	WNW5	W5	W6	W7	W6	WSW4	SSW7	SW3	WSW5	WNW6	W6	SW10	WSW9	W8	SW7	SSW4	S5	S5	SSE5	SE5	SE6	SE4	SW4.0	SW10
25-Feb	ESE5	ESE7	SE5	ESE3	SE2	N1	NW3	NNW5	NNW2	NNW3	NW5	WNW5	WNW6	SW8	WSW8	W5	W3	NW2	NNW1	SE2	SE1	NE1	NNW4	N5	WNW1.1	SW8
26-Feb	NNW3	NNW4	N2	NNE3	N5	NNW4	NNW5	NNW6	N5	N2	N2	NNW1	NW8	NW13	NW16	NW16	NW10	NW11	NW12	NNW14	NNW14	NW12	NNW15	NNW14	NNW8.0	NW16
27-Feb	NW11	NW8	NW9	NW5	NW2	NW3	NNW2	NNW3	NNW5	N6	NNW6	NNW7	NW5	SW3	NNW6	N6	ESE7	E4	N4	WNW1	NNW1	NNW1	S1	SSE1	NNW3.2	NNW11
28-Feb	SSE2	SSE2	S1	SE2	SE2	ESE2	ESE1	ESE1	ESE2	SSW7	SSW9	SSW12	SSW11	SW13	SW12	SSW14	SSW13	S11	S8	SSW11	SSW16	SSW14	SSW12	SSW10	SSW7.4	SSW16
	WSW0.3	SSW0.5	SSW0.6	SSW0.9	WSW1.0	W1.4	W1.7	W1.5	WNW1.7	WNW2.1	WNW2.0	WNW1.9	WNW2.5	W3.0	WNW3.1	NW2.7	WNW1.2	WNW0.8	ESE0.2	SSW0.7	SSW0.8	WSW0.7	WNW1.0	WNW0.8	Diurnal Average	
	N14	N14	S14	S15	SSW17	SSW14	SW16	SW17	W14	NNW19	NNW18	N16	N17	N16	N17	N18	N16	N16	N16	N15	N17	N17	N16	N14	Diurnal Maximum	

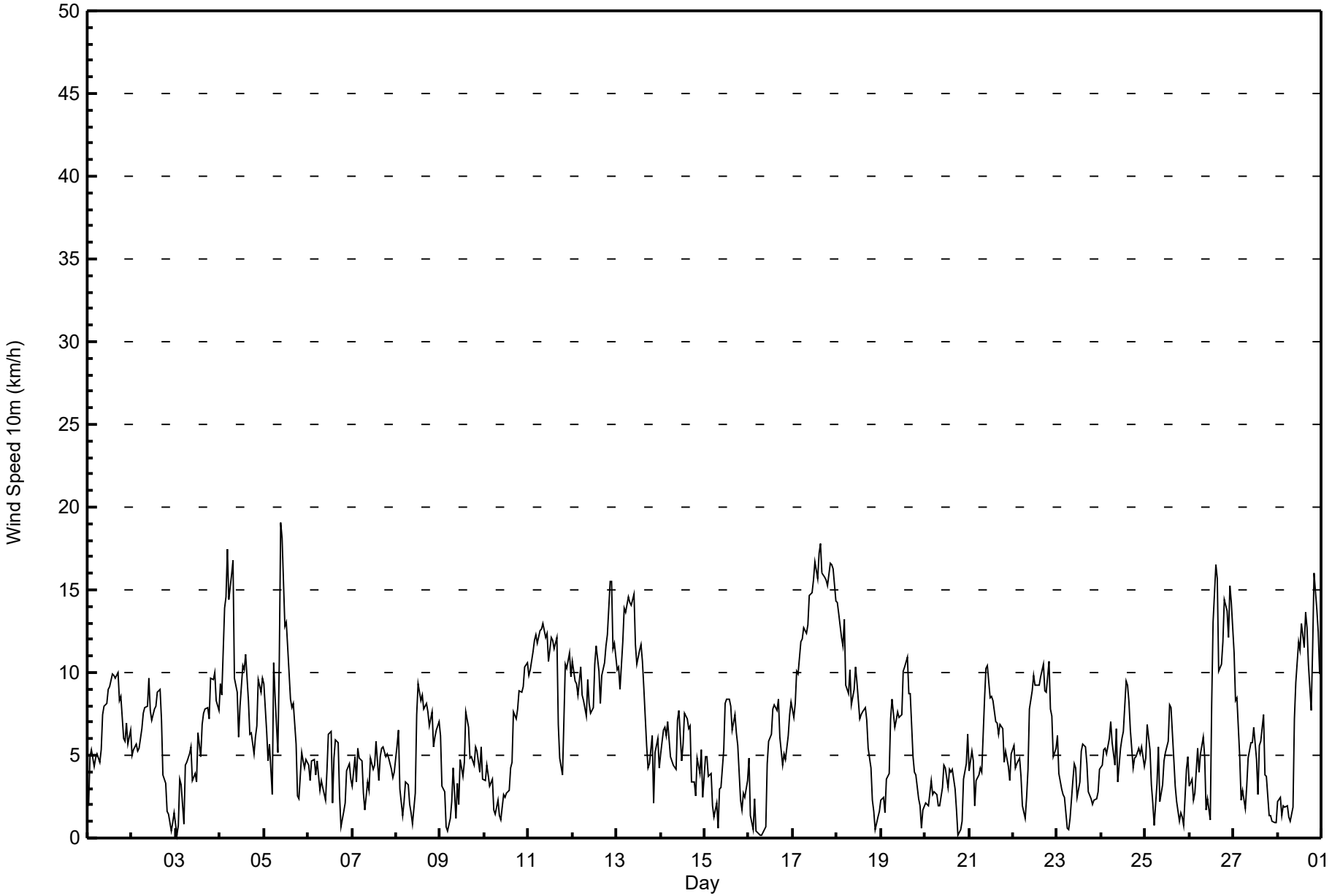
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Conklin - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	335	49.85	49.85
6 - 11	258	38.39	88.24
12 - 19	79	11.76	100.00
20 - 28	0	0.00	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Conklin - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	34	21	16	15	15	21	31	28	18	12	11	6	10	17	24	56	335
6 - 11	17	16	6	2	5	19	13	13	19	23	42	8	19	12	22	22	258
12 - 19	20	5	0	0	0	0	0	0	2	12	16	1	9	0	6	8	79
20 - 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	71	42	22	17	20	40	44	41	39	47	69	15	38	29	52	86	672

Total Number of Valid Hours: 672

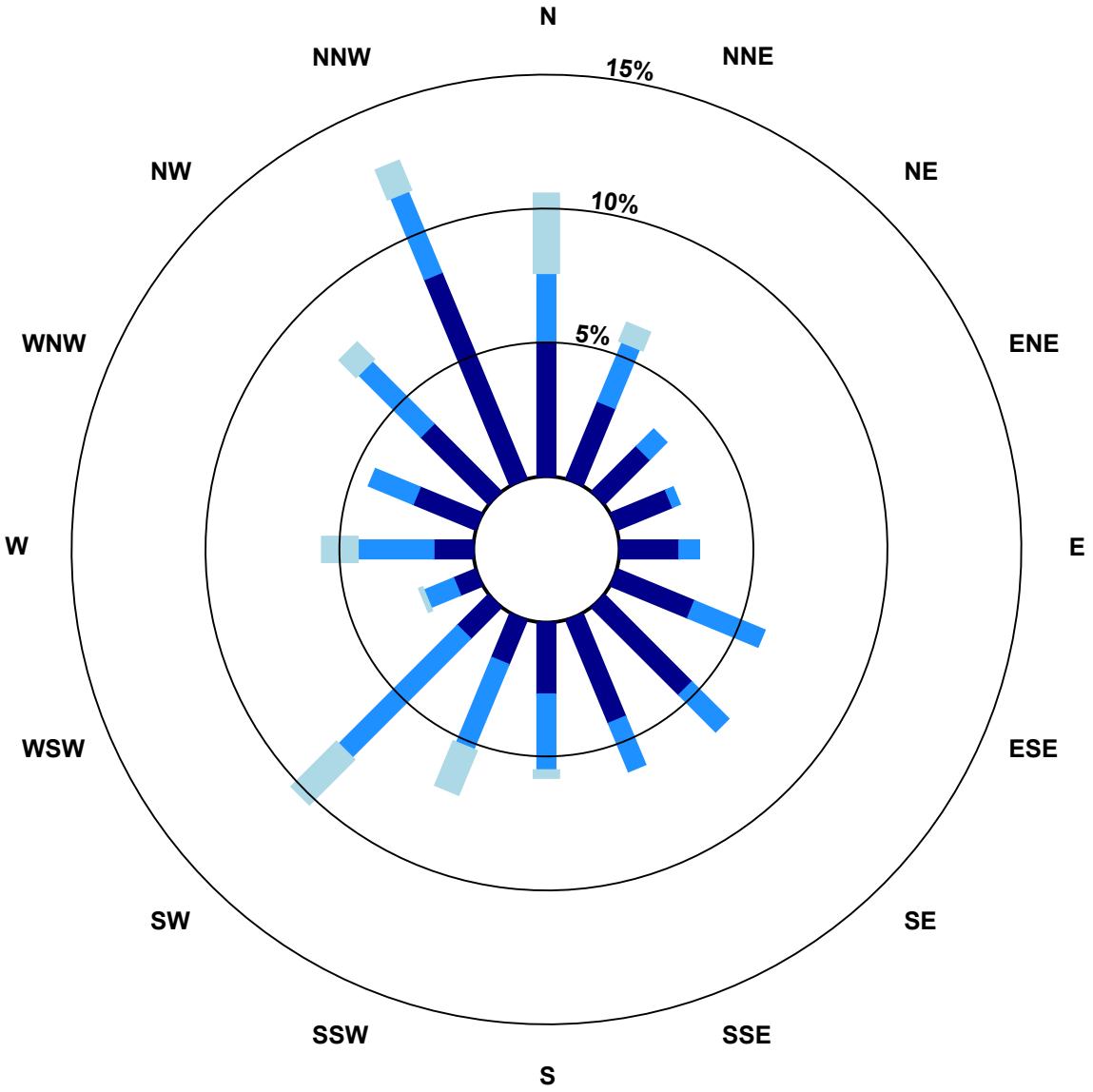
Total Number of Hours: 672

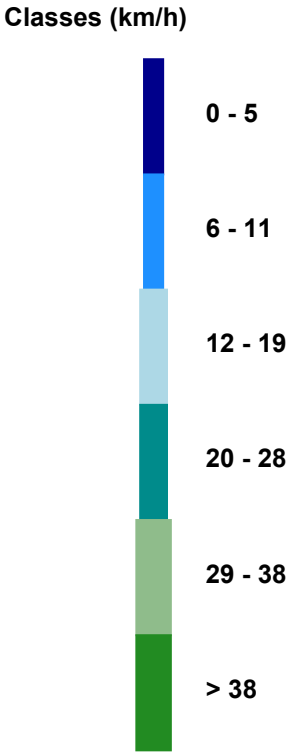
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Conklin





Total Number of Valid Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Conklin - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 6 km/h on Feb 5 09:00

Minimum Value: 0 km/h on Feb 20 07:00

Percentiles: $P_1 = 1$ $P_{10} = 1$ $Q_1 = 1$ Median = 2 $Q_3 = 3$ $P_{90} = 4$ $P_{99} = 6$

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	1	2	1	1	1	1	1	2	2	2	2	2	3	2	2	2	2	2	1	1	1	1	1	3
2-Feb	1	1	1	1	1	2	2	2	2	3	2	3	2	3	3	3	3	2	1	1	1	1	1	1	3
3-Feb	1	1	2	2	1	2	2	1	2	1	2	2	2	2	2	2	2	3	2	3	2	2	2	2	3
4-Feb	2	3	4	4	5	4	5	5	3	3	2	3	4	5	5	4	2	2	1	1	2	3	3	3	5
5-Feb	3	3	1	2	1	6	4	2	6	6	6	5	5	4	3	3	3	2	1	1	2	2	2	1	6
6-Feb	1	1	2	1	1	2	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	2	1	3	3
7-Feb	1	1	2	2	2	1	2	2	1	1	1	1	2	2	2	1	2	2	2	2	2	2	1	1	2
8-Feb	1	2	2	1	1	1	1	1	1	1	2	3	4	4	4	3	3	3	2	3	2	2	2	3	4
9-Feb	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	2	2	1	1	1	2
10-Feb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
11-Feb	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	5	2	1	1	4	3	3	3	3	5
12-Feb	3	2	2	2	3	3	3	3	4	4	3	3	3	4	4	3	3	3	3	3	4	4	3	3	4
13-Feb	3	3	2	4	5	5	5	6	5	5	5	5	4	5	5	4	2	1	2	1	2	1	1	1	6
14-Feb	1	1	1	2	1	1	1	1	1	2	3	3	3	3	3	3	3	1	2	2	2	2	2	1	3
15-Feb	1	1	1	1	1	1	1	1	1	1	2	3	2	2	2	2	2	2	3	1	1	1	1	1	3
16-Feb	1	2	1	1	1	1	1	1	1	1	2	2	2	3	3	3	3	1	1	1	1	2	2	3	3
17-Feb	2	2	3	3	4	4	5	4	4	5	5	5	5	5	6	6	5	4	5	4	5	5	5	4	6
18-Feb	4	4	4	3	4	3	3	4	3	3	3	3	3	3	3	3	2	2	2	2	1	1	1	1	4
19-Feb	1	1	1	1	1	1	3	2	2	2	3	3	3	3	3	3	3	2	1	1	1	1	1	1	3
20-Feb	1	1	1	1	1	1	0	2	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2
21-Feb	1	2	2	1	2	1	1	1	3	3	3	3	3	3	3	3	2	2	3	2	2	2	1	1	3
22-Feb	2	2	1	2	1	1	1	1	1	2	2	2	3	2	2	3	3	3	3	3	2	2	1	2	3
23-Feb	2	1	1	1	1	1	1	1	2	1	2	1	2	2	2	2	2	1	1	1	1	1	1	2	2
24-Feb	1	2	2	2	3	3	3	1	1	1	3	3	3	3	3	4	2	1	1	1	1	1	1	1	4
25-Feb	1	1	1	1	1	1	2	1	2	1	2	2	2	3	3	2	1	1	1	1	1	2	1	1	3
26-Feb	1	1	1	1	2	2	2	2	1	1	2	2	6	5	6	6	4	5	5	5	5	4	5	5	6
27-Feb	3	3	3	2	1	1	1	1	2	2	3	2	2	2	3	2	2	2	1	1	1	1	1	1	3
28-Feb	1	1	1	1	1	1	1	1	2	3	3	3	3	4	4	4	4	3	3	4	4	5	4	3	5
	4	4	4	4	5	6	5	6	6	6	6	5	6	5	6	6	5	5	5	5	5	5	5	5	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Conklin - February 2026

Direction of Maximum Speed: 338 deg on Feb 5 10:00
Direction of Maximum Daily Speed Average: 4.8 deg on Feb 17

Direction of Minimum Speed: 74 deg on Feb 16 08:00

Direction of Minimum Daily Speed Average: 1.1 deg on Feb 20

Monthly Average Direction: 277.9 deg

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	48	78	103	101	98	97	103	100	111	116	129	133	143	157	132	124	130	126	135	146	134	132	139	123	124.2
2-Feb	125	125	127	137	135	153	161	162	168	183	182	198	213	221	233	231	230	242	261	218	322	229	179	175	185.8
3-Feb	75	219	321	355	309	356	354	352	336	301	291	230	215	223	208	192	184	182	163	167	164	164	159	157	192.4
4-Feb	162	177	178	185	197	204	216	221	232	238	227	271	270	283	286	286	272	259	206	207	214	267	265	232	227.2
5-Feb	218	209	162	215	286	288	311	2	340	338	337	322	330	325	334	332	352	4	15	2	85	75	56	37	331.1
6-Feb	73	82	84	93	48	57	68	28	8	16	78	107	89	65	328	348	343	335	323	353	324	325	336	333	34.4
7-Feb	166	171	236	204	222	339	339	344	328	321	340	24	1	5	53	33	8	11	34	46	72	55	50	13	14.5
8-Feb	345	341	327	35	348	329	328	299	137	338	317	305	318	310	312	311	315	321	317	332	329	318	318	337	322.3
9-Feb	318	302	275	203	102	206	158	181	143	127	126	346	9	2	354	5	23	14	59	22	24	32	23	27	12.7
10-Feb	25	344	344	346	343	347	4	340	349	350	137	147	125	127	129	159	175	173	178	180	180	190	198	204	178.7
11-Feb	206	214	208	222	227	219	224	219	222	227	228	231	232	235	238	250	230	209	167	224	231	228	227	224	224.7
12-Feb	228	229	228	227	239	231	244	248	274	284	269	238	227	230	232	216	193	201	193	197	205	212	227	234	226.5
13-Feb	224	226	231	266	264	259	261	264	264	259	276	277	267	271	272	277	267	229	175	195	139	123	165	158	252.6
14-Feb	154	169	181	180	172	151	142	156	150	189	235	256	276	283	282	289	285	276	211	209	188	268	295	210	218.6
15-Feb	170	162	158	187	167	164	189	130	332	322	334	345	344	340	1	16	13	15	25	12	25	352	351	350	358.7
16-Feb	347	320	348	340	328	172	209	74	331	303	134	123	103	58	46	36	21	357	358	4	3	8	28	25	30.0
17-Feb	12	5	7	12	12	12	15	15	7	10	13	7	5	7	7	4	0	358	358	359	359	357	355	355	4.8
18-Feb	355	356	358	355	355	1	356	346	333	330	334	337	323	318	324	320	315	327	330	332	324	169	160	165	341.5
19-Feb	163	134	155	135	158	188	219	224	207	234	228	218	208	211	231	235	212	186	169	160	112	116	29	66	204.4
20-Feb	119	121	106	141	153	144	140	146	155	205	223	194	99	117	114	104	50	104	307	342	342	331	331	353	122.9
21-Feb	347	354	3	3	356	335	341	353	4	14	22	34	23	36	68	35	46	29	31	30	30	53	35	22	21.7
22-Feb	35	63	74	77	53	34	6	46	81	103	105	102	96	94	91	96	103	102	104	110	113	117	103	99	94.2
23-Feb	104	102	99	85	93	185	126	173	250	299	306	269	310	288	274	307	296	300	311	293	304	301	292	278	296.0
24-Feb	259	257	284	281	281	274	281	242	198	216	257	284	271	226	239	261	219	192	182	172	158	136	136	127	235.0
25-Feb	122	115	124	106	134	351	318	330	330	327	304	292	288	231	241	275	276	316	339	145	143	47	347	349	290.7
26-Feb	344	343	357	33	4	345	337	343	354	356	360	345	311	311	320	322	315	308	323	327	328	326	332	332	328.3
27-Feb	326	325	320	322	318	312	334	346	339	350	345	337	323	224	337	352	113	84	355	300	331	330	169	150	337.0
28-Feb	162	154	175	137	135	117	115	123	109	201	199	194	202	214	215	193	197	188	182	193	199	209	204	200	195.7
	255.0	212.4	206.9	207.2	250.3	266.5	270.8	277.1	291.3	288.2	291.6	287.0	287.0	276.7	290.2	304.2	290.7	302.1	119.7	201.1	192.1	243.7	288.2	302.3	
	Diurnal Average																								

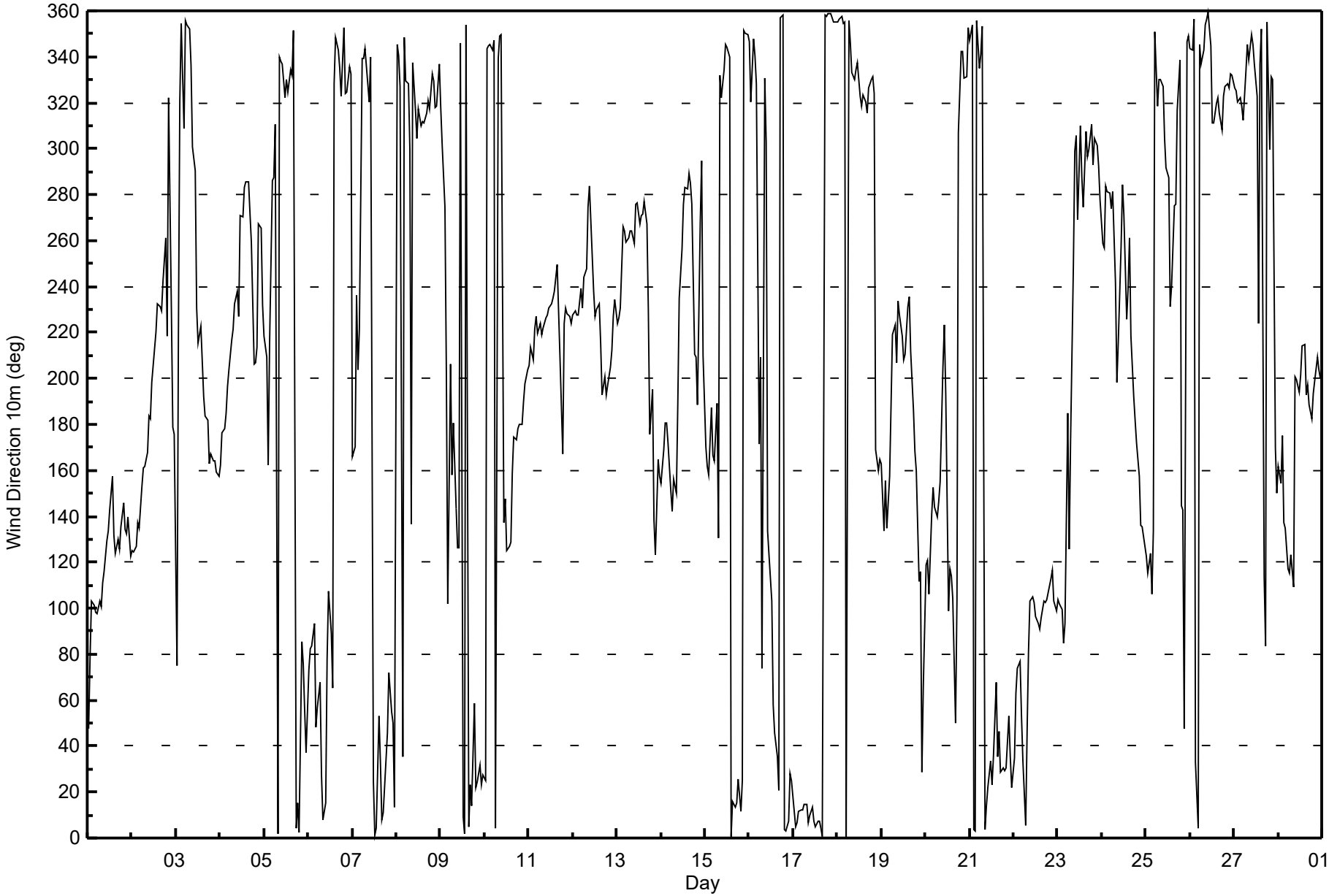
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Conklin - February 2026



Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 100 deg on Feb 26 12:00

Minimum Value: 8 deg on Feb 10 19:00

Percentiles: P_1 = 12 P_{10} = 16 Q_1 = 19 Median = 24 Q_3 = 34 P_{90} = 54 P_{99} = 84

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	51	25	26	22	24	21	16	19	16	17	16	18	21	21	17	18	15	13	13	13	13	16	19	13	51
2-Feb	15	12	11	9	15	17	15	15	18	20	22	27	24	23	22	22	32	28	35	68	60	68	66	30	68
3-Feb	85	80	22	36	75	16	16	18	24	30	38	57	31	42	26	27	20	22	19	20	18	18	16	17	85
4-Feb	17	33	18	22	18	21	22	22	24	22	37	35	29	35	31	32	26	19	17	15	21	29	28	20	37
5-Feb	21	27	32	40	46	34	40	32	29	19	17	20	21	22	25	28	20	16	30	18	27	33	37	28	46
6-Feb	33	36	30	25	34	28	46	34	36	56	49	24	35	82	20	16	12	21	54	54	44	30	15	61	82
7-Feb	64	24	57	39	32	19	84	83	20	18	21	35	53	29	54	27	25	20	24	36	36	30	32	23	84
8-Feb	12	15	48	54	29	26	24	52	73	17	52	32	25	30	28	26	22	21	25	18	20	18	22	17	73
9-Feb	20	35	35	91	77	85	48	34	84	36	62	28	47	44	17	18	30	23	32	25	20	31	18	22	91
10-Feb	29	15	19	20	16	47	56	26	69	63	29	29	36	25	14	20	16	9	8	10	10	15	16	20	69
11-Feb	19	20	18	19	18	19	19	20	19	20	19	20	22	25	24	27	25	20	21	27	18	19	18	19	27
12-Feb	18	18	19	18	19	21	26	35	31	39	41	26	25	27	24	25	20	17	17	17	16	23	19	21	41
13-Feb	19	21	21	30	27	26	26	29	27	26	34	35	31	32	33	34	30	27	23	12	77	21	18	25	77
14-Feb	20	14	12	17	15	25	22	41	20	24	33	47	37	34	34	33	32	27	49	43	17	55	31	70	70
15-Feb	18	15	27	20	27	59	42	81	21	34	25	19	18	18	18	18	19	26	32	18	38	32	28	15	81
16-Feb	15	58	65	52	81	83	86	77	55	77	34	31	45	39	33	34	22	14	15	20	17	20	23	22	86
17-Feb	21	18	18	19	19	20	20	20	18	21	20	19	19	20	20	20	19	17	17	17	18	18	18	17	21
18-Feb	17	16	18	17	17	17	16	17	19	19	19	22	32	24	26	23	22	16	15	69	48	74	36	18	74
19-Feb	24	13	14	14	19	14	26	22	17	21	28	35	24	26	25	27	22	16	18	22	50	34	72	40	72
20-Feb	53	42	34	13	25	28	12	55	17	38	50	32	47	18	17	19	35	56	95	19	79	13	11	14	95
21-Feb	16	20	22	39	17	18	14	19	17	22	24	33	33	35	36	34	30	23	24	24	26	31	31	21	39
22-Feb	26	38	33	30	28	37	41	29	31	18	21	18	24	23	24	22	17	19	19	16	15	15	18	20	41
23-Feb	18	17	25	31	24	76	75	74	57	32	49	64	58	35	35	31	32	26	20	42	29	34	41	31	76
24-Feb	21	23	33	32	34	27	32	36	14	56	41	37	42	26	35	33	30	20	17	15	17	20	13	23	56
25-Feb	15	12	13	22	33	75	14	17	57	37	27	34	38	36	33	34	43	40	13	61	22	68	16	16	75
26-Feb	18	26	47	49	30	22	21	17	21	84	68	100	34	27	21	19	25	29	19	19	18	18	17	18	100
27-Feb	16	15	16	16	28	22	64	21	23	24	38	27	57	76	52	36	34	41	27	37	19	75	74	48	76
28-Feb	15	21	73	23	26	19	44	79	66	37	20	20	25	27	30	21	20	20	26	19	19	23	20	24	79
	85	80	73	91	81	85	86	83	84	84	68	100	58	82	54	36	43	56	95	69	79	75	74	70	
	Diurnal Maximum																								

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS22
JANVIER
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - JANVIER (AMS22)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-Min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2(ppb) Average	637	33	35	99.7	-	-	5.4	0	1.9	0
TRS(ppb) Average	636	34	36	99.7	1.1	0	0.9	-	0.4	-
THC(ppm) Average	637	33	35	99.7	-	-	2.2	-	2.1	-
NMHC(ppm) Average	637	33	35	99.7	-	-	0.001	-	0	-
CH4(ppm) Average	637	33	35	99.7	-	-	2.2	-	2.1	-
O3 (ppb) Average	639	31	33	99.7	-	-	47.6	0	44.6	-
NO2 (ppb) Average	639	33	33	100	-	-	12.8	0	4.9	-
NO (ppb) Average	639	33	33	100	-	-	9.1	-	1	-
NOX (ppb) Average	639	33	33	100	-	-	16.9	-	5.9	-
PM2.5 (ug/m3) Average	671	1	1	100	-	-	15.7	0	8.9	0
Temperature 2 m (C) Average	672	0	0	100	-	-	10.3	-	4	-
Relative Humidity (%) Average	672	0	0	100	-	-	96.9	-	92.1	-
Wind Speed 20 m (km/h) Average	654	0	18	97.32	-	-	22	-	18	-
Wind Direction 20 m (deg) Average	654	0	18	97.32	-	-	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - JANVIER (AMS22)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	637	0.45	0.7	-	0	0	0.1	0.2	0.5	1	5.4
TRS (ppb) Average	636	0.26	0.1	-	0.2	0.2	0.2	0.2	0.3	0.3	0.9
THC (ppm) Average	637	2.05	0	-	2	2	2	2	2.1	2.1	2.2
NMHC(ppm) Average	637	0	0	-	0	0	0	0	0	0	0.001
CH4(ppm) Average	637	2.05	0	-	2	2	2	2	2.1	2.1	2.2
O3 (ppb) Average	639	27.68	8.9	-	2.7	16.1	21.4	28	33.3	40.2	47.6
NO2 (ppb) Average	639	2.4	2.1	-	0.2	0.4	0.9	1.7	3.3	5.1	12.8
NO (ppb) Average	639	0.37	0.7	-	0	0	0	0.1	0.4	1	9.1
NOX (ppb) Average	639	2.76	2.4	-	0.2	0.5	1	1.9	3.8	6	16.9
PM2.5 (ug/m3) Average	671	3.41	2.3	-	0.3	1.4	1.9	2.7	4.3	6.3	15.7
Temperature 2 m (C) Average	672	-11.99	10	-	-36.2	-26.1	-19.5	-10.4	-4.8	0.5	10.3
Relative Humidity (%) Average	672	75.03	14.1	-	28.4	53.4	67.6	76.6	86.6	91.8	96.9
Wind Speed 20 m (km/h) Average	654	8.3	4	-	0	3	5	8	11	13	22
Wind Direction 20 m (deg) Average	654	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - JANVIER (AMS22)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
THC/NMHC/CH4, O3, SO2, TRS	27 Feb 2026 14:00	27 Feb 2026 15:00	2	Maintenance - sample manifold cleaned
Wind Speed, Wind Direction	10 Feb 2026 05:00	10 Feb 2026 21:00	17	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	23 Feb 2026 21:00	23 Feb 2026 21:00	1	Flat line in sensor output signal - Sensor frozen

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Janvier - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 5.4 ppb on Feb 3 04:00 Maximum Daily Average: 1.9 ppb on Feb 3

Minimum Value: 0.0 ppb on Feb 1 15:00 Minimum Daily Average: 0.1 ppb on Feb 22

Maximum Diurnal Average: 0.6 ppb at hour 21 Minimum Diurnal Average: 0.3 ppb at hour 3

Monthly Average: 0.45 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.2 Q_3 = 0.5 P_{90} = 1.0 P_{99} = 4.0

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	33
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.2	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
2-Feb	0.0	Z	0.1	0.2	0.1	0.2	0.3	0.5	0.5	0.5	0.9	0.9	C	C	C	C	C	0.6	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.9
3-Feb	0.5	1.8	Z	5.4	5.4	3.6	3.6	4.4	2.4	2.3	2.0	1.8	1.8	1.4	0.6	0.3	0.3	1.1	1.1	1.1	0.7	0.4	0.3	0.3	1.9	5.4
4-Feb	0.4	0.3	0.6	Z	0.7	0.4	0.4	0.3	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.4	0.7
5-Feb	0.5	0.3	0.5	0.3	Z	0.3	0.3	0.3	0.2	0.3	0.4	0.5	0.7	1.0	0.8	0.8	1.9	1.9	2.0	2.5	3.9	3.3	4.8	2.7	1.3	4.8
6-Feb	1.2	1.2	1.5	1.6	1.5	Z	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.4	1.6
7-Feb	Z	0.1	0.2	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.2	0.4	0.2	0.2	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.4
8-Feb	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.1	0.2	0.3	0.1	0.5	1.5	1.8	0.2	1.8
9-Feb	1.3	1.0	Z	1.2	0.9	0.8	0.6	1.5	1.2	1.4	1.8	1.6	1.4	1.2	1.1	0.9	0.7	0.5	0.5	0.4	0.3	0.4	0.3	0.2	0.9	1.8
10-Feb	0.4	0.4	0.3	Z	0.3	0.2	0.2	0.2	0.2	0.0	0.1	0.2	0.3	0.4	0.4	0.3	0.3	0.2	0.1	0.3	0.4	0.4	0.4	0.5	0.3	0.5
11-Feb	0.6	0.5	0.4	0.5	Z	0.2	0.2	0.2	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
12-Feb	0.0	0.0	0.0	0.0	0.0	Z	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	0.2	0.8	0.7	0.7	0.5	0.1	0.8
13-Feb	Z	0.2	0.1	0.1	0.2	0.2	0.5	0.5	0.6	0.4	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.6
14-Feb	0.2	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.8	0.6	0.4	0.2	0.2	0.1	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.8
15-Feb	0.3	0.4	Z	0.4	0.1	0.2	0.2	0.8	4.1	1.4	1.3	1.4	1.1	0.6	0.7	1.1	1.3	1.0	1.7	3.2	5.0	4.4	2.9	1.4	1.5	5.0
16-Feb	0.9	0.6	0.2	Z	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9
17-Feb	0.1	0.0	0.0	0.1	Z	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.2	0.1	0.1	0.2
18-Feb	0.2	0.2	0.2	0.4	0.3	Z	0.4	0.4	0.3	0.4	0.4	0.3	0.2	0.3	0.3	0.4	0.3	0.2	0.5	0.6	0.4	0.6	0.4	0.2	0.4	0.6
19-Feb	Z	0.6	0.6	0.4	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.1	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	0.6
20-Feb	0.0	Z	0.2	0.2	0.0	0.1	0.2	0.4	0.5	0.5	0.6	0.6	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.5	0.6	1.1	0.5	1.1
21-Feb	1.5	1.4	Z	0.8	0.9	0.9	0.8	0.9	0.8	0.7	0.6	0.4	0.3	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.5	1.5
22-Feb	0.1	0.0	0.1	Z	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1
23-Feb	0.0	0.1	0.0	0.1	Z	0.2	0.2	0.1	0.0	0.0	0.0	0.2	0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.2
24-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.3	0.7	0.8	0.4	0.7	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.8
25-Feb	Z	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.5	0.6	0.6	0.6	0.5	0.9	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.2	0.4	0.9
26-Feb	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.4	0.9	1.3	2.7	3.3	2.0	0.8	0.5	0.5	0.6	0.7	3.3
27-Feb	0.4	0.4	Z	0.3	0.2	0.4	0.1	0.1	0.2	0.4	0.6	0.6	0.7	M	M	0.9	1.1	1.5	1.1	0.7	0.7	0.8	0.6	0.5	0.6	1.5
28-Feb	0.3	0.4	0.2	Z	0.3	0.4	0.4	0.8	1.3	1.0	0.8	0.7	0.6	0.4	0.5	0.7	0.7	0.7	0.8	0.6	0.7	0.5	0.5	0.5	0.6	1.3
	0.4	0.5	0.3	0.6	0.5	0.4	0.3	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.5	Diurnal Average	
	1.5	1.8	1.5	5.4	5.4	3.6	3.6	4.4	4.1	2.3	2.0	1.8	1.8	1.4	1.1	1.1	1.9	2.7	3.3	3.2	5.0	4.4	4.8	2.7	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

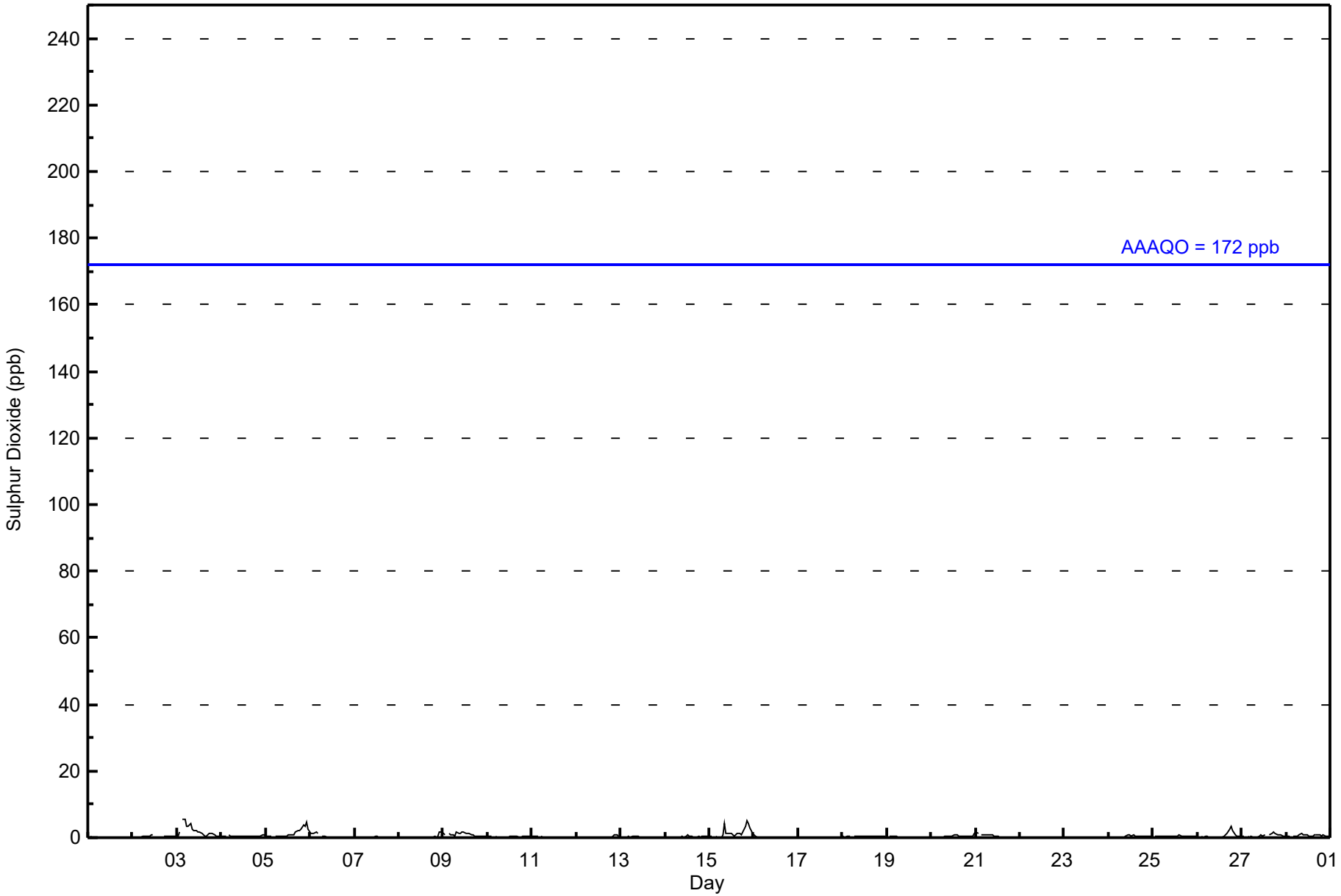
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Janvier - February 2026



Sulphur Dioxide (SO_2) - ppb

Janvier - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	637	100.00	100.00
11 - 20	0	0.00	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Janvier - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	48	175	48	15	24	4	9	15	11	56	129	34	19	14	9	9	619
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	48	175	48	15	24	4	9	15	11	56	129	34	19	14	9	9	619

Total Number of Valid Hours: 619

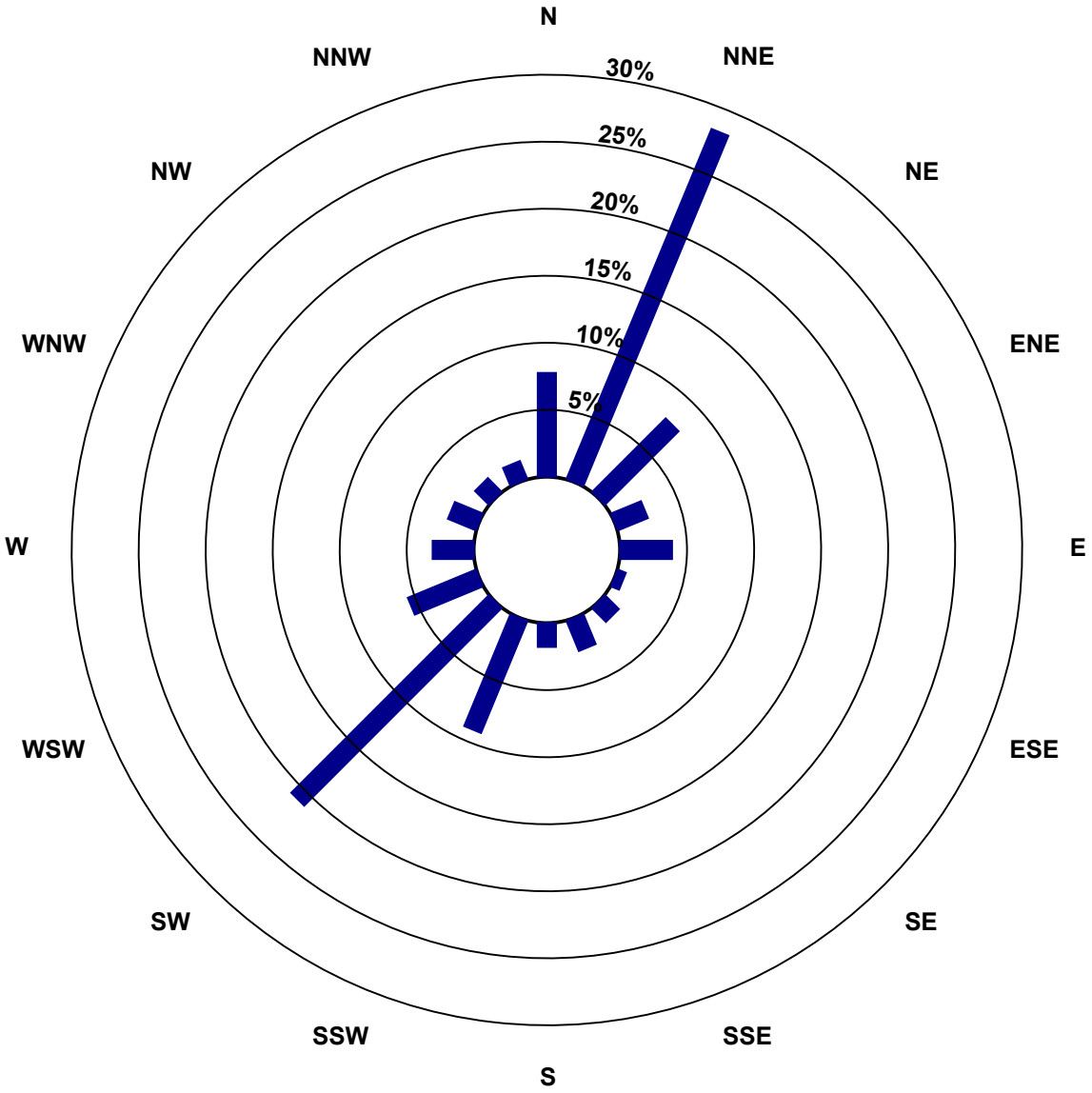
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Janvier



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

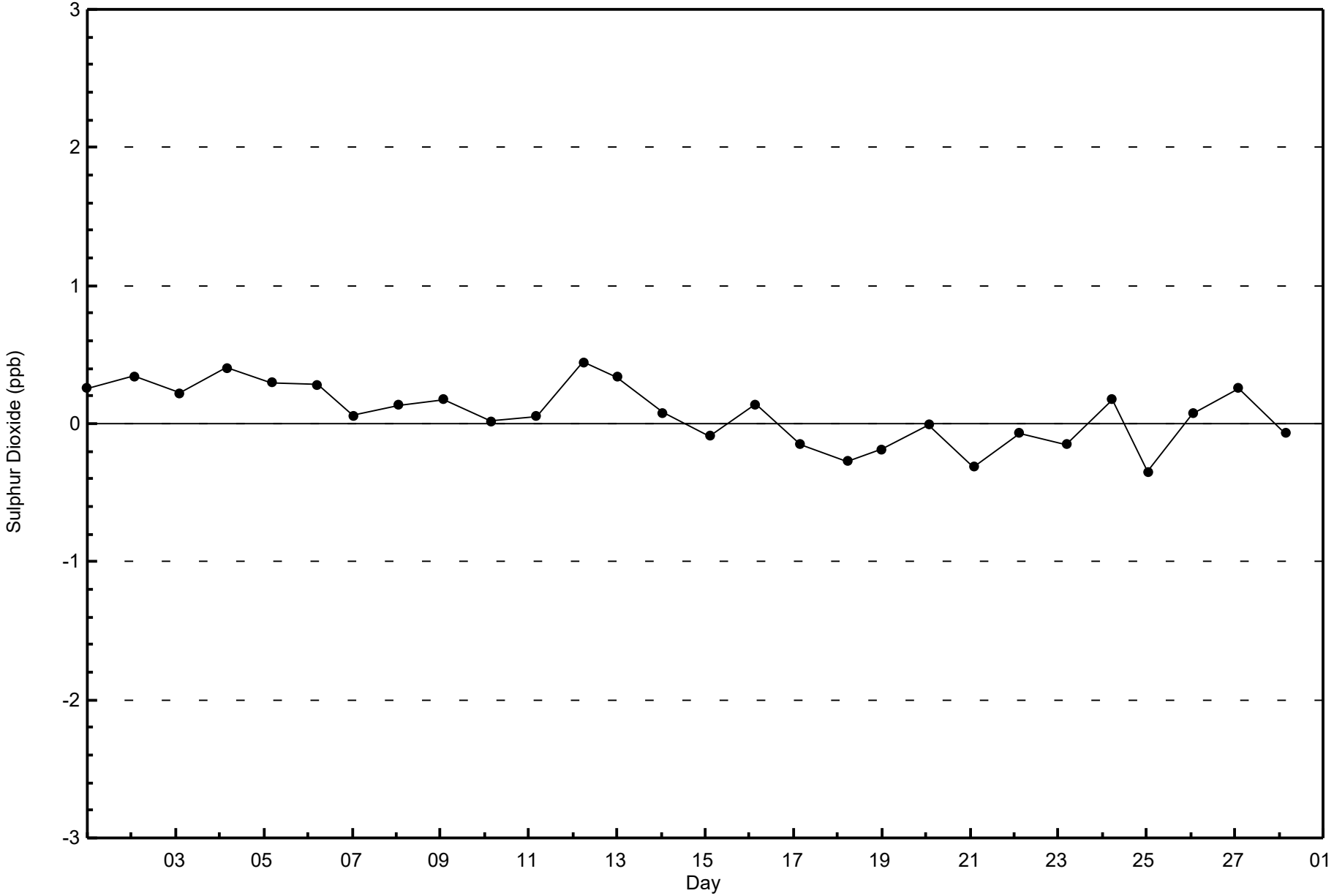
Total Number of Valid Hours: 619

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Janvier - February 2026

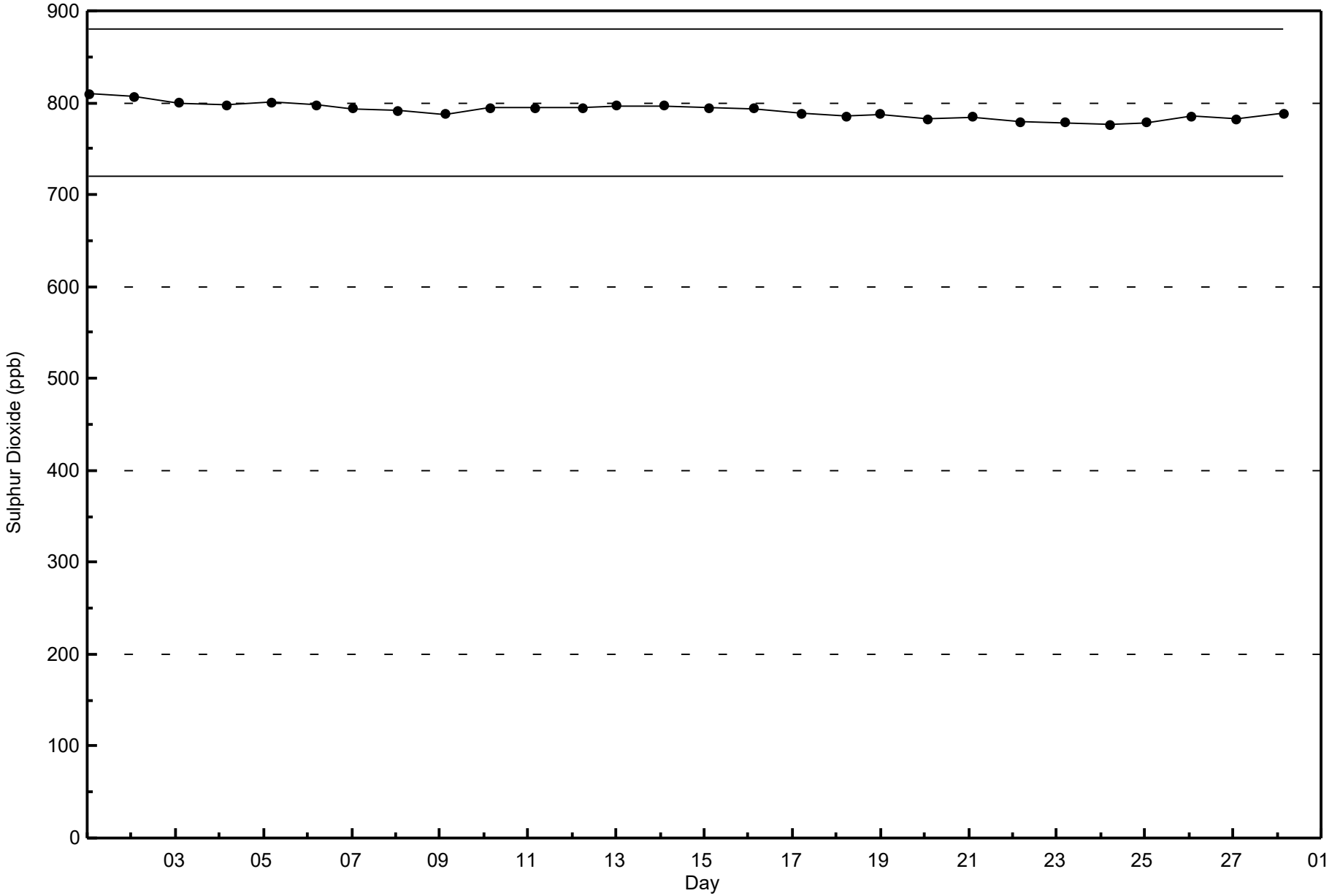


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Janvier - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Janvier - February 2026

Number of Exceedences (AAAQG): 30-Min: 0

Maximum Value: 1.1 ppb on Feb 3 07:30 Maximum Daily Average: 0.4 ppb on Feb 3

Minimum Value: 0.1 ppb on Feb 26 22:30 Minimum Daily Average: 0.2 ppb on Feb 4

Maximum Diurnal Average: 0.3 ppb at hour 6 Minimum Diurnal Average: 0.2 ppb at hour 21

Monthly Average: 0.26 ppb Percentiles: P_1 = 0.2 P_{10} = 0.2 Q_1 = 0.2 Median = 0.2 Q_3 = 0.3 P_{90} = 0.3 P_{99} = 0.5

Periods in Service:	1344
Periods of Valid Data:	1273
Periods of Invalid Data:	71
Periods of Calibration:	69
Percent Operational Time:	99.9

Period Ending At (MST)

Day	00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.2 0.2	Z SP	0.3 0.3	0.2 0.3	0.2 0.2	0.2 0.3	0.3 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2	0.3
2-Feb	0.2 0.2	0.2 0.3	Z SP	0.3 0.3	0.3 0.3	0.3 0.2	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.5 0.5	0.4 0.3	0.3 0.3	0.3 0.3	0.3 0.2	0.3 0.2	0.3 0.3	0.3 0.3	0.2 0.2	0.3 0.2	0.3	0.5
3-Feb	0.3 0.3	0.3 0.4	0.5 0.5	Z SP	0.6 0.6	0.6 0.6	0.6 0.8	1.1 0.7	0.7 0.7	0.6 0.5	0.4 0.4	0.4 0.5	0.5 0.5	0.5 0.5	0.4 0.3	0.3 0.2	0.2 0.2	0.3 0.3	0.3 0.3	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.4	1.1
4-Feb	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	Z SP	0.3 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2	0.3
5-Feb	0.2 0.2	0.2 0.2	0.2 0.2	0.3 0.3	0.3 0.2	Z SP	0.3 0.2	0.2 0.2	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.2	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3	0.3
6-Feb	Z SP	0.4 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.2	0.3 0.2	0.2 0.3	0.2 0.3	0.3 0.3	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2	0.4
7-Feb	0.2 0.2	Z SP	0.3 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.3 0.3	0.3 0.2	0.3 0.3	0.3 0.2	0.2 0.2	0.2 0.3	0.3 0.4	0.4 0.4	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.2	0.3	0.4
8-Feb	0.2 0.2	0.2 0.2	Z SP	0.3 0.3	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.4 0.5	0.5 0.5	0.5 0.5	0.3	0.5
9-Feb	0.5 0.4	0.4 0.4	0.4 0.4	Z SP	0.5 0.5	0.5 0.5	0.5 0.5	0.4 0.4	0.5 0.4	0.4 0.4	0.4 0.4	0.4 0.4	0.4 0.4	0.4 0.4	0.4 0.4	0.4 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.2	0.3 0.3	0.2 0.3	0.2 0.3	0.4	0.5
10-Feb	0.2 0.3	0.2 0.2	0.2 0.2	0.2 0.2	Z SP	0.3 0.3	0.3 0.3	0.3 0.3	0.2 0.2	0.3 0.2	0.3 0.2	0.2 0.2	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3	0.3
11-Feb	0.2 0.3	0.3 0.3	0.3 0.3	0.3 0.2	0.3 0.2	Z SP	0.3 0.3	0.3 0.3	0.3 0.3	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2	0.3
12-Feb	Z SP	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2	0.2
13-Feb	0.2 0.2	Z SP	0.3 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2	0.3
14-Feb	0.2 0.2	0.2 0.2	Z SP	0.3 0.3	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2	0.3
15-Feb	0.2 0.2	0.2 0.2	0.2 0.2	Z SP	0.3 0.2	0.2 0.2	0.2 0.2	0.2 0.4	0.6 0.4	0.3 0.3	0.3 0.3	0.3 0.4	0.3 0.3	0.3 0.3	0.3 0.3	0.4 0.4	0.4 0.3	0.3 0.3	0.3 0.3	0.2 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3	0.6

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Janvier - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	0.3	0.3	0.3	0.2	Z	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
	0.3	0.3	0.2	0.2	SP	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
17-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
	0.2	0.2	0.2	0.2	0.2	SP	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
18-Feb	Z	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.4
	SP	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3		
19-Feb	0.3	Z	0.6	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
	0.3	SP	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
20-Feb	0.2	0.2	Z	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.4
	0.2	0.2	SP	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3		
21-Feb	0.4	0.4	0.4	Z	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.5
	0.4	0.4	0.4	SP	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3		
22-Feb	0.2	0.2	0.2	0.2	Z	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.4
	0.2	0.2	0.3	0.2	SP	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
23-Feb	0.2	0.3	0.3	0.3	0.3	Z	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
	0.3	0.3	0.3	0.3	0.3	SP	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
24-Feb	Z	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
	SP	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3		
25-Feb	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	C	C	C	C	C	C	0.3	0.3	0.2	0.2	0.2	0.2	--	0.3
	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	C	C	C	C	C	C	C	0.3	0.3	0.2	0.2	0.2	0.2		
26-Feb	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.4
	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.2	0.1	0.2	0.2	0.2		
27-Feb	0.2	0.2	0.2	Z	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	M	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.4
	0.2	0.2	0.2	SP	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	M	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3		
28-Feb	0.3	0.3	0.3	0.3	Z	0.5	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.5
	0.3	0.2	0.2	0.3	SP	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2		
	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	Diurnal Average	
	0.5	0.4	0.6	0.4	0.6	0.6	0.8	1.1	0.7	0.6	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.5	0.5	0.5	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Janvier - February 2026

Maximum Value: 0.9 ppb on Feb 3 08:00

Maximum Daily Average: 0.4 ppb on Feb 3

Minimum Value: 0.2 ppb on Feb 26 23:00

Minimum Daily Average: 0.2 ppb on Feb 4

Maximum Diurnal Average: 0.3 ppb at hour 6

Minimum Diurnal Average: 0.2 ppb at hour 21

Monthly Average: 0.26 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.2 Q_1 = 0.2 Median = 0.2 Q_3 = 0.3 P_{90} = 0.3 P_{99} = 0.5

Hours in Service:	672
Hours of Data:	636
Hours of Missing Data:	36
Hours of Calibration:	34
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	Z	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
2-Feb	0.2	0.2	Z	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.5
3-Feb	0.3	0.4	0.5	Z	0.6	0.6	0.7	0.9	0.7	0.5	0.4	0.5	0.5	0.5	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.9
4-Feb	0.2	0.2	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
5-Feb	0.2	0.2	0.2	0.3	0.2	Z	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
6-Feb	Z	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
7-Feb	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4
8-Feb	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.3	0.5
9-Feb	0.4	0.4	0.4	Z	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.5
10-Feb	0.3	0.2	0.2	0.2	Z	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
11-Feb	0.2	0.3	0.3	0.3	0.3	Z	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
12-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
13-Feb	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
14-Feb	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
15-Feb	0.2	0.2	0.2	Z	0.3	0.2	0.2	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
16-Feb	0.3	0.3	0.2	0.2	Z	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
17-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
18-Feb	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3
19-Feb	0.3	Z	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
20-Feb	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3
21-Feb	0.4	0.4	0.4	Z	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.5
22-Feb	0.2	0.2	0.2	0.2	Z	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
23-Feb	0.3	0.3	0.3	0.3	0.3	Z	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
24-Feb	Z	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25-Feb	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	C	C	C	C	C	C	0.3	0.3	0.2	0.2	0.2	0.2	--	0.3
26-Feb	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
27-Feb	0.2	0.2	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	M	M	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3
28-Feb	0.3	0.2	0.3	0.3	Z	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4
	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	Diurnal Average	
	0.4	0.4	0.5	0.3	0.6	0.6	0.7	0.9	0.7	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.5	0.5	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

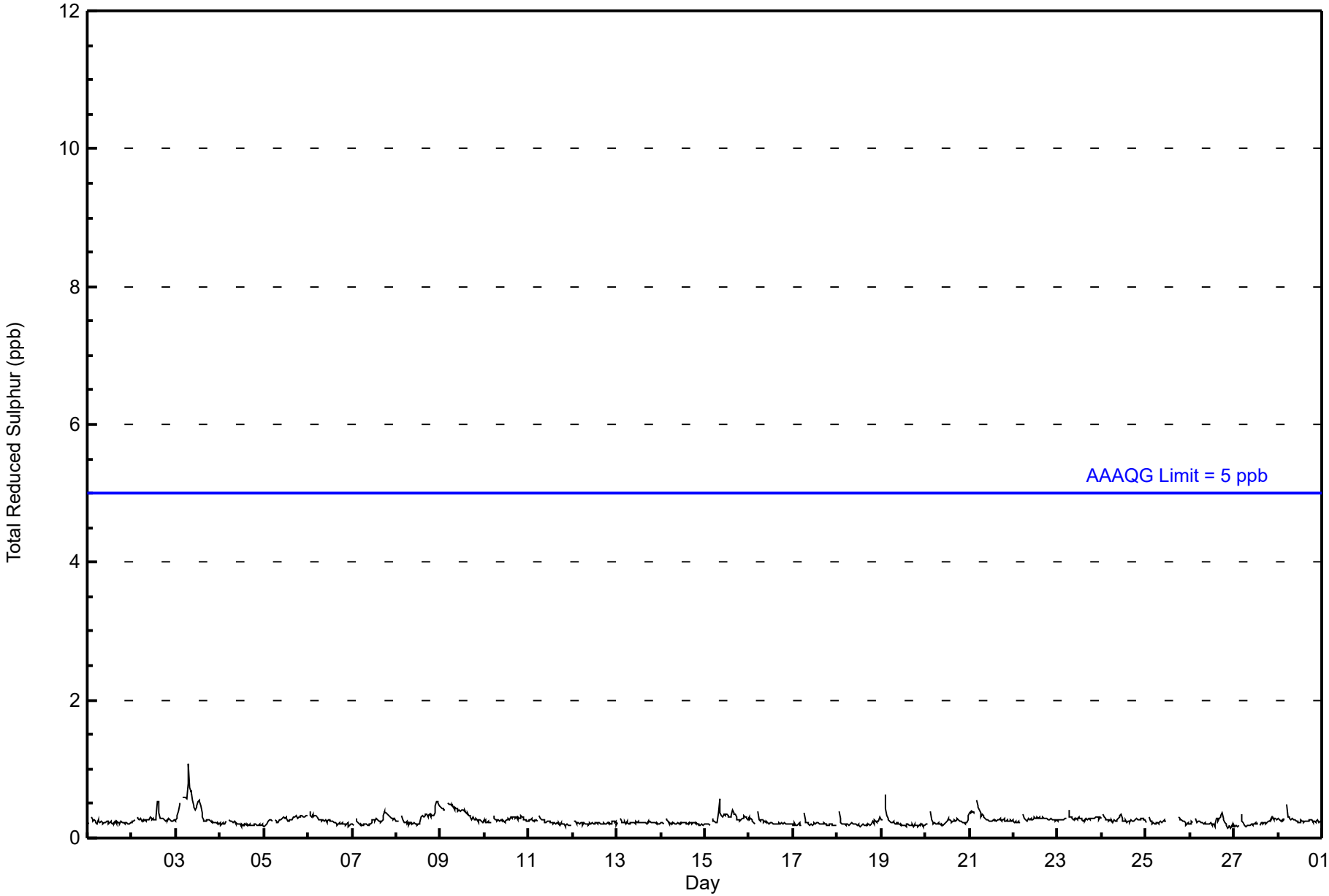
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Janvier - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	636	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 636

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Janvier - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	48	171	52	16	24	4	10	14	10	56	131	34	18	13	9	9	619
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	48	171	52	16	24	4	10	14	10	56	131	34	18	13	9	9	619

Total Number of Valid Hours: 619

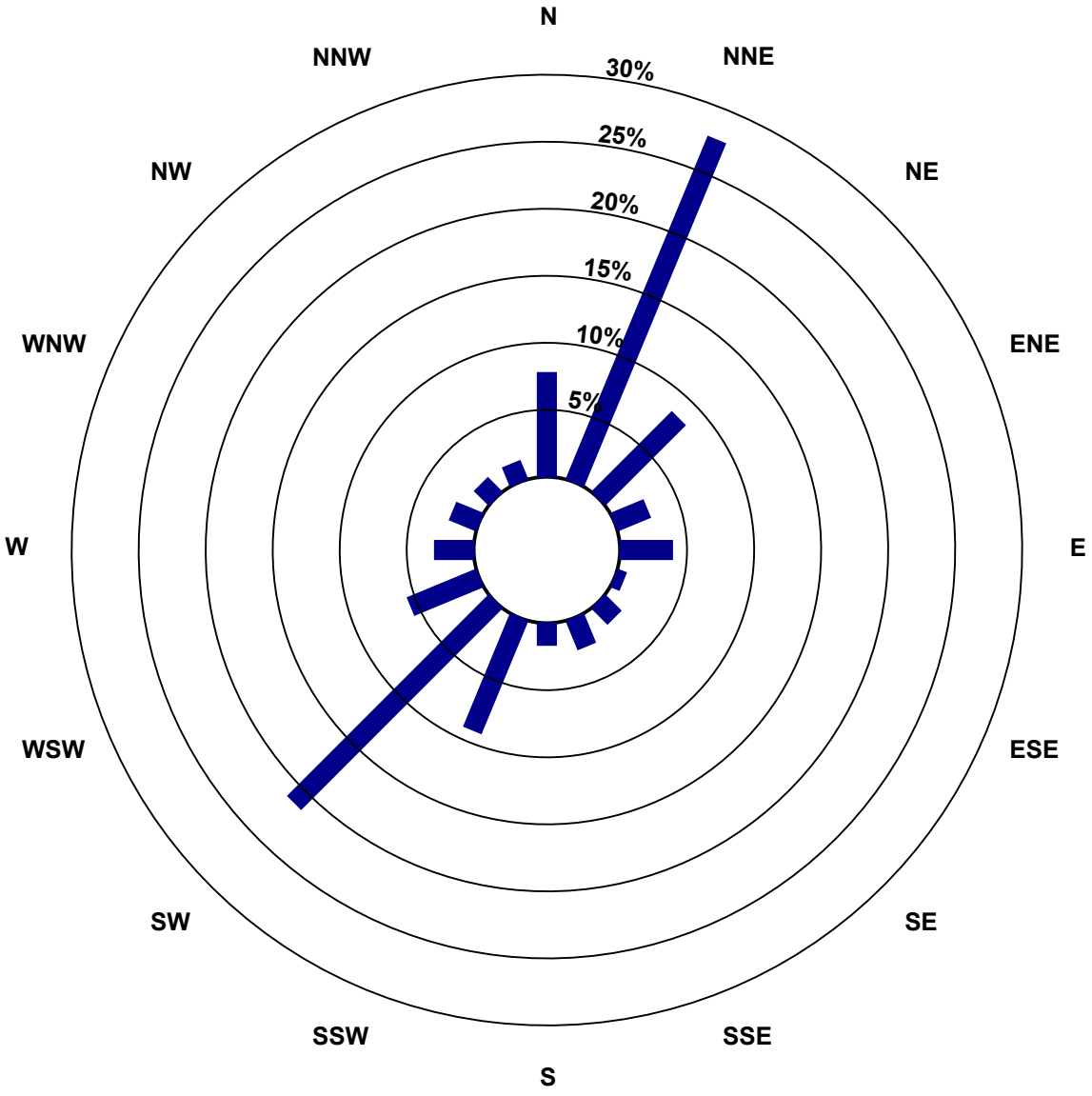
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Janvier



Classes (ppb)

- 0 - 2
- 3 - 4
- 5 - 7
- 8 - 11
- > 11

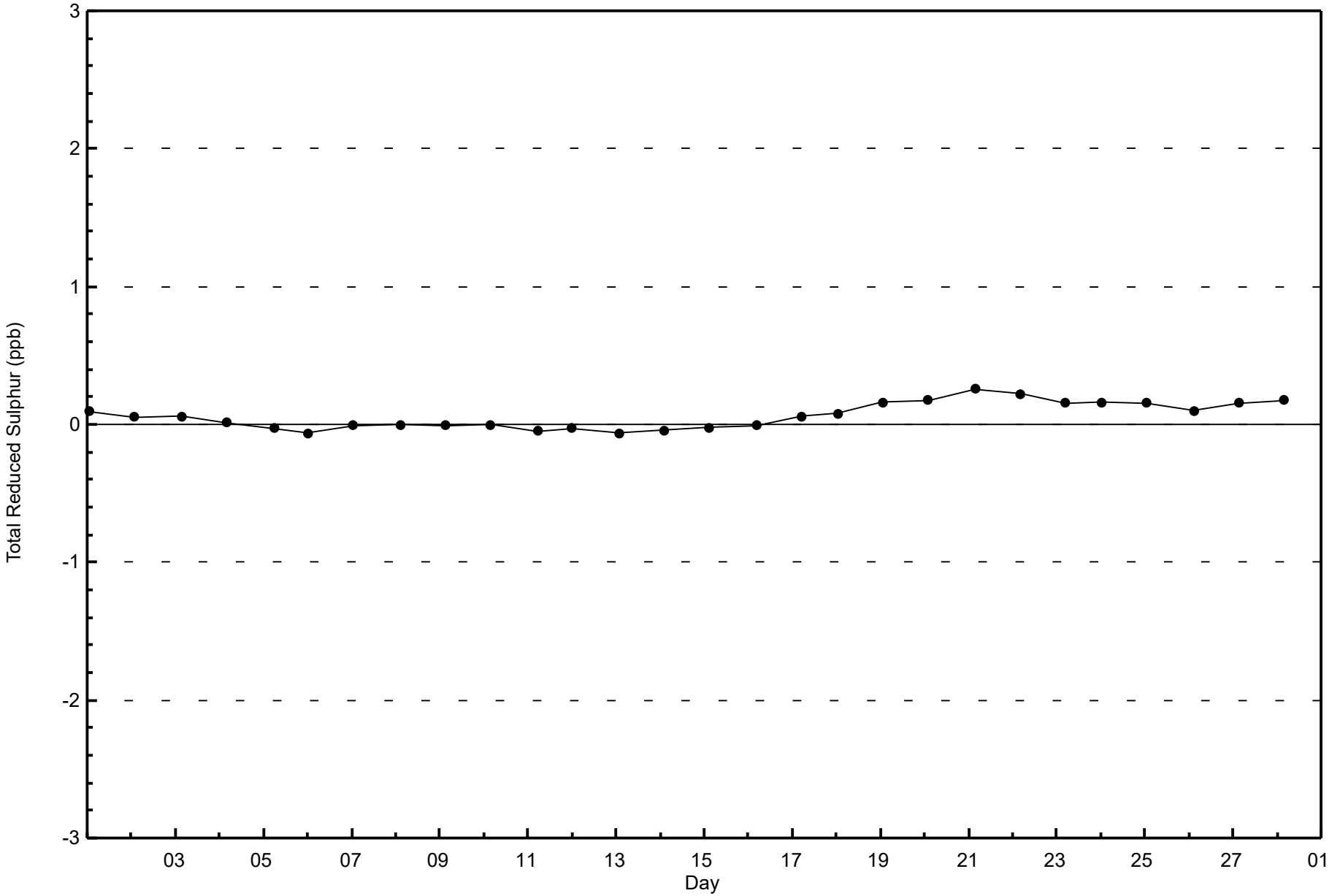
Total Number of Valid Hours: 619

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Janvier - February 2026

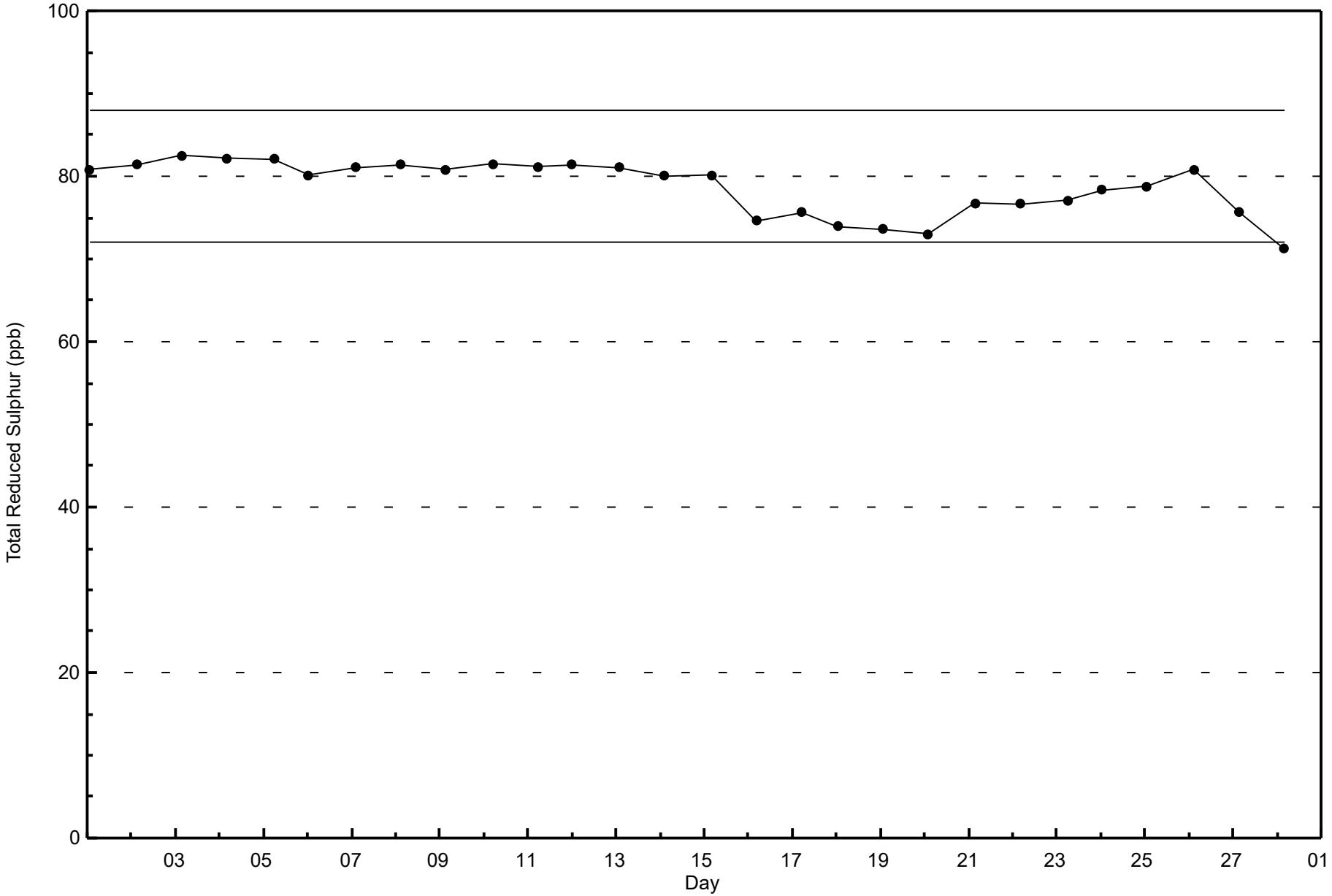


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Janvier - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Janvier - February 2026

Maximum Value: 2.2 ppm on Feb 7 19:00

Maximum Daily Average: 2.1 ppm on Feb 7

Minimum Value: 2.0 ppm on Feb 1 02:00

Minimum Daily Average: 2.0 ppm on Feb 1

Maximum Diurnal Average: 2.1 ppm at hour 9

Minimum Diurnal Average: 2.0 ppm at hour 16

Monthly Average: 2.05 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.0 Median = 2.0 Q_3 = 2.1 P_{90} = 2.1 P_{99} = 2.1

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	33
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
2-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	C	C	C	C	C	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1
3-Feb	2.1	2.1	Z	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2
4-Feb	2.0	2.0	2.0	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
5-Feb	2.0	2.0	2.1	2.1	Z	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1
6-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1
7-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2
8-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
9-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1
10-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
11-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
12-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
13-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
14-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
15-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
16-Feb	2.1	2.1	2.1	Z	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1
17-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
18-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
19-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20-Feb	2.0	Z	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
21-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1
22-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
23-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1
24-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
25-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
26-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1
27-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	M	M	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
28-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1
	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	Diurnal Average	
	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	Diurnal Maximum	

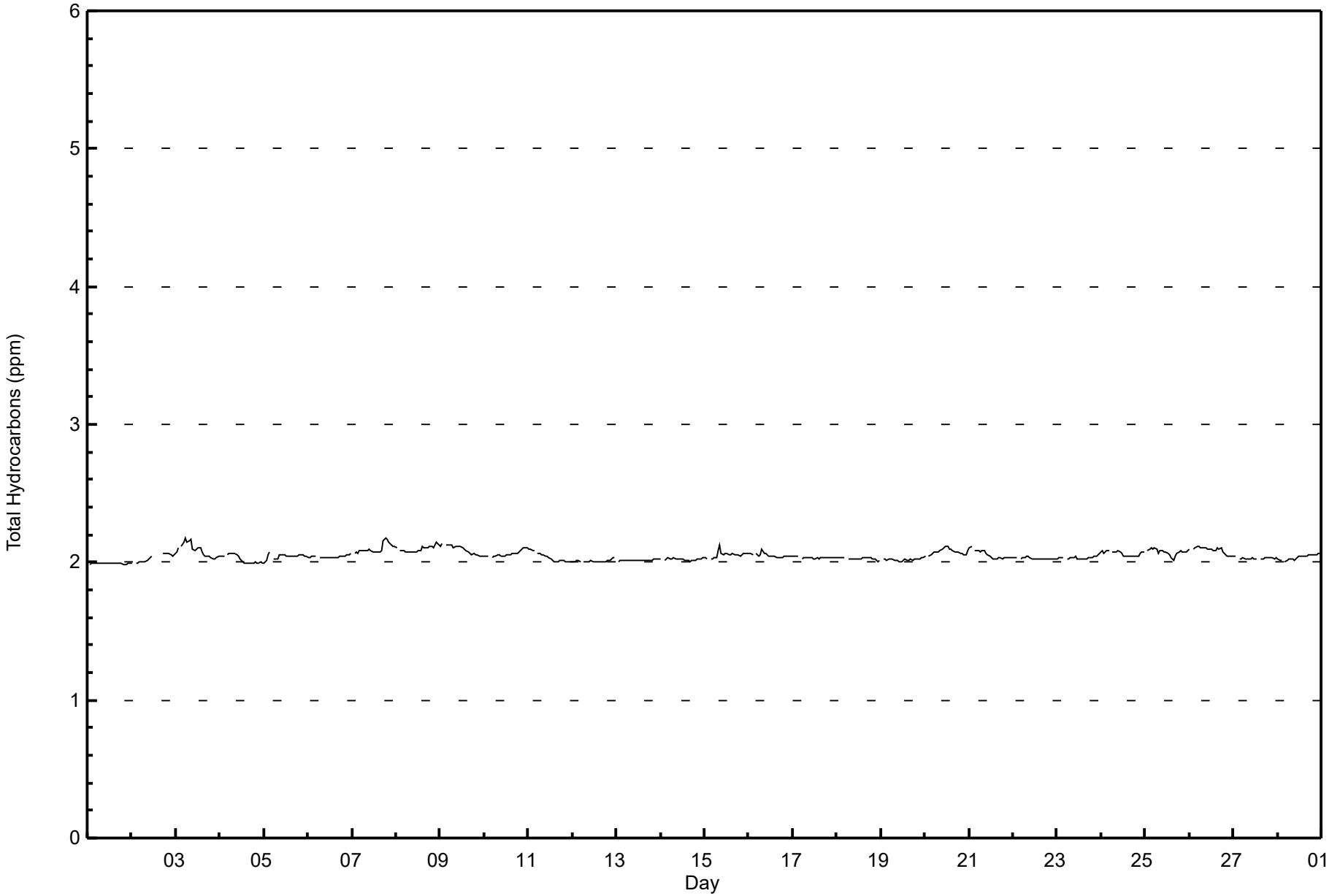
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Janvier - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Total Hydrocarbons (THC) - ppm

Janvier - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	396	62.17	62.17
2.1 - 3.0	241	37.83	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Janvier - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	27	81	33	10	21	3	8	13	9	37	92	26	16	9	1	3	389
2.1 - 3.0	21	94	15	5	3	1	1	2	2	19	37	8	3	5	8	6	230
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	48	175	48	15	24	4	9	15	11	56	129	34	19	14	9	9	619

Total Number of Valid Hours: 619

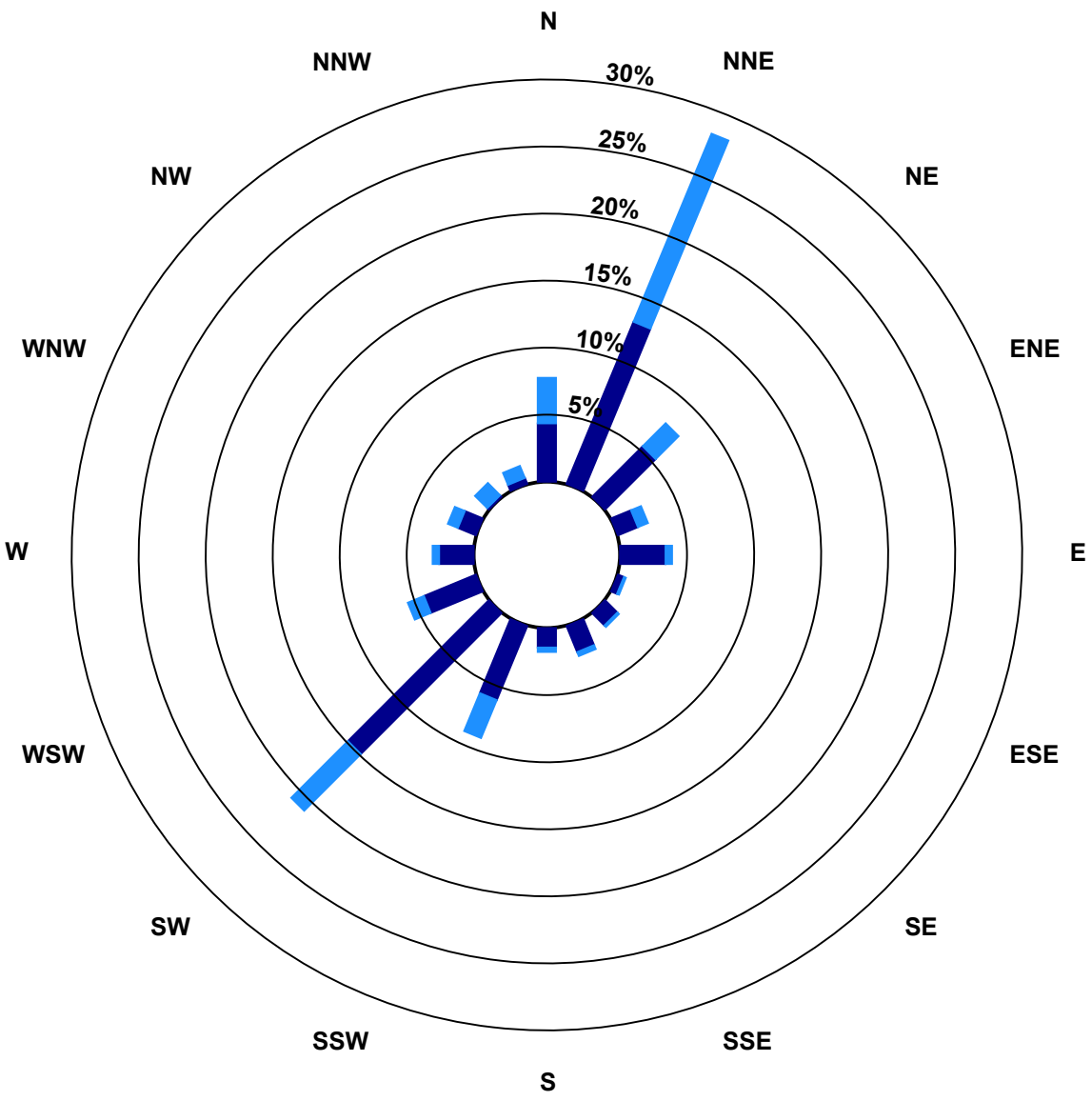
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Janvier



Classes (ppm)

- 0 - 2.0
- 2.1 - 3.0
- 3.1 - 10.0
- > 10.0

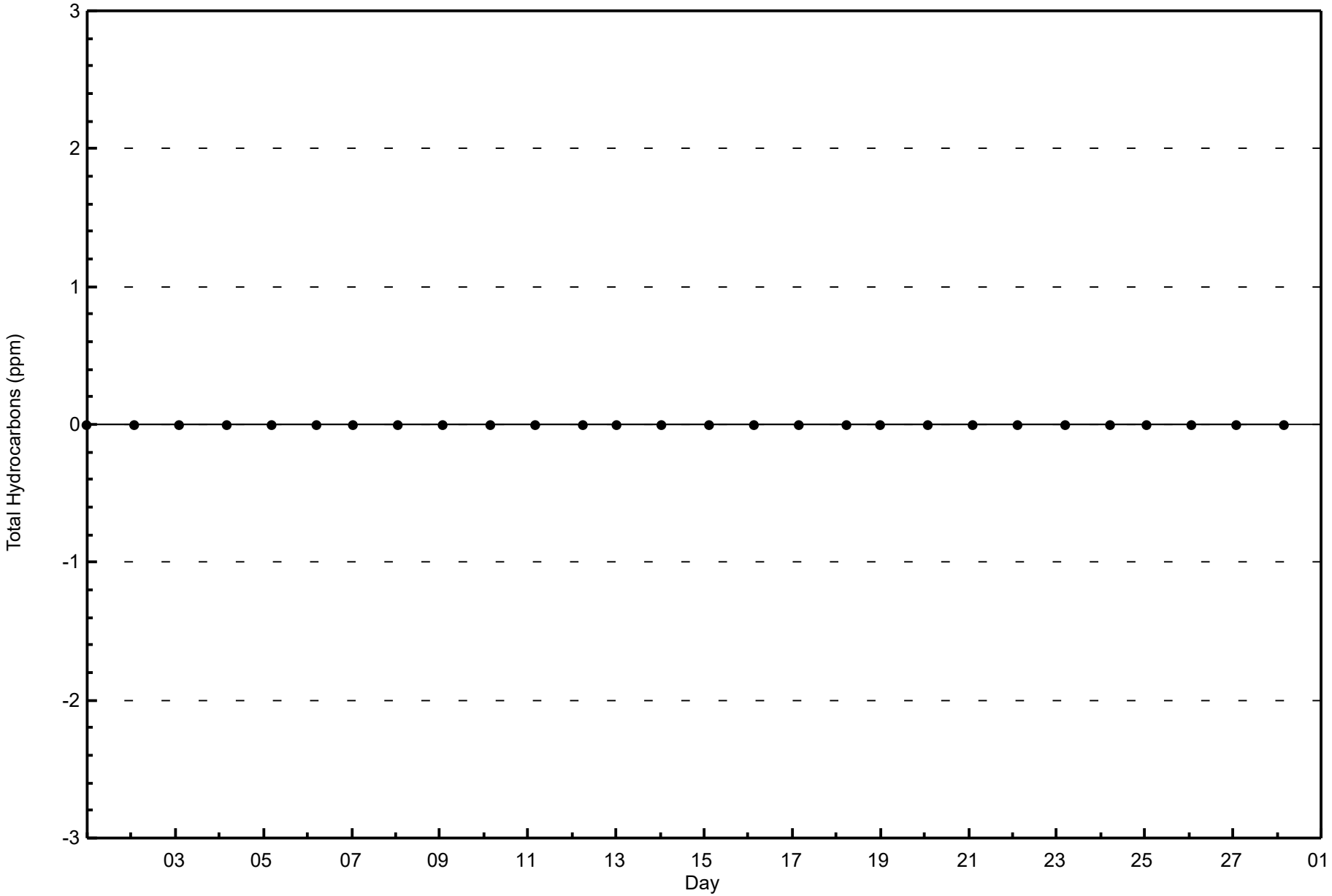
Total Number of Valid Hours: 619

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Janvier - February 2026

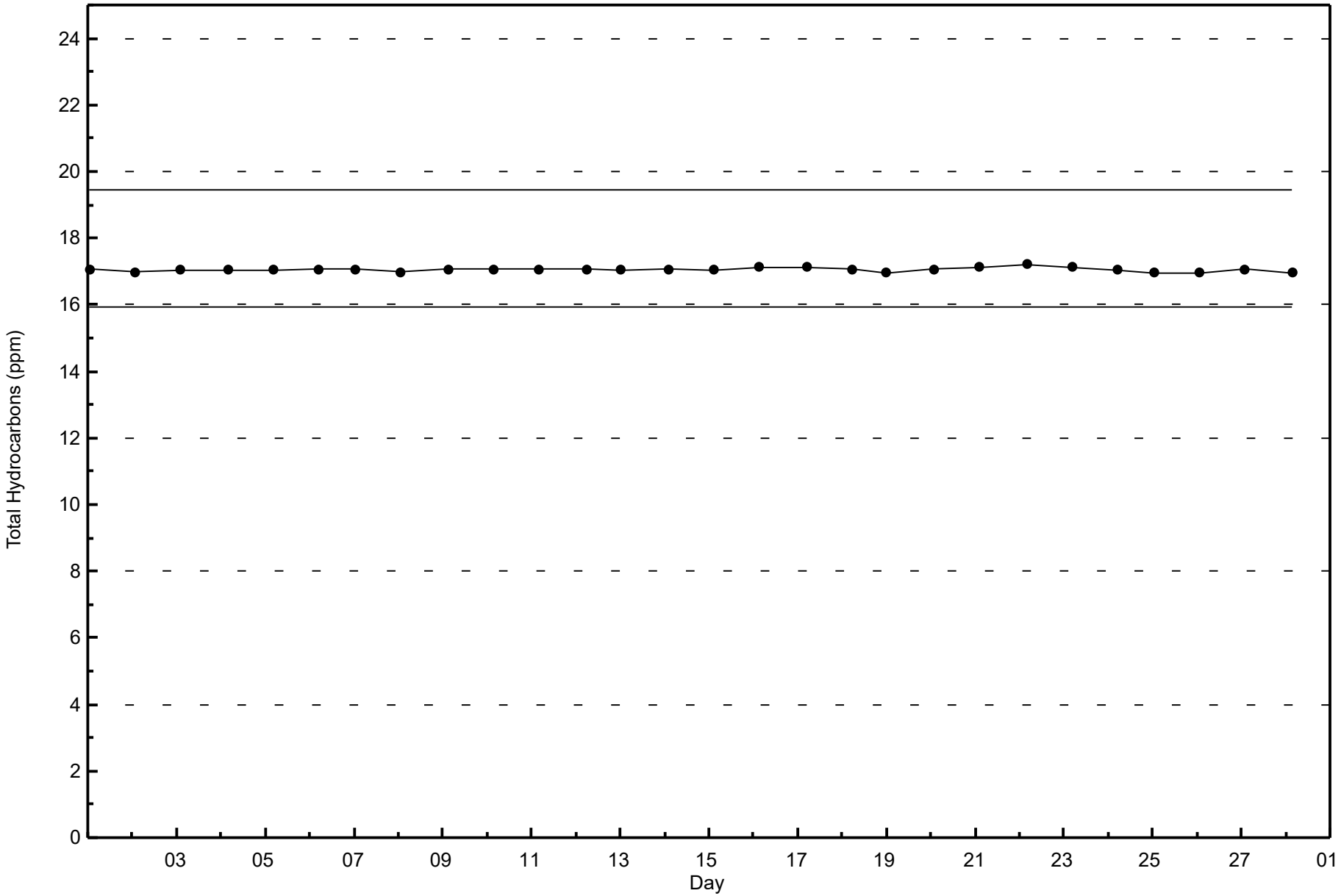


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Janvier - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Janvier - February 2026

Maximum Value: 0.001 ppm on Feb 16 05:00

Maximum Daily Average: 0.000 ppm on Feb 16

Minimum Value: 0.000 ppm on Feb 1 02:00

Minimum Daily Average: 0.000 ppm on Feb 1

Maximum Diurnal Average: 0.000 ppm at hour 5

Minimum Diurnal Average: 0.000 ppm at hour 1

Monthly Average: 0.000 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.0 P_{99} = 0.0

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	33
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	C	C	C	C	C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5-Feb	0.000	0.000	0.000	0.000	Z	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
6-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Feb	0.000	0.000	0.000	Z	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
17-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	M	M	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Diurnal Average	
	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Diurnal Maximum	

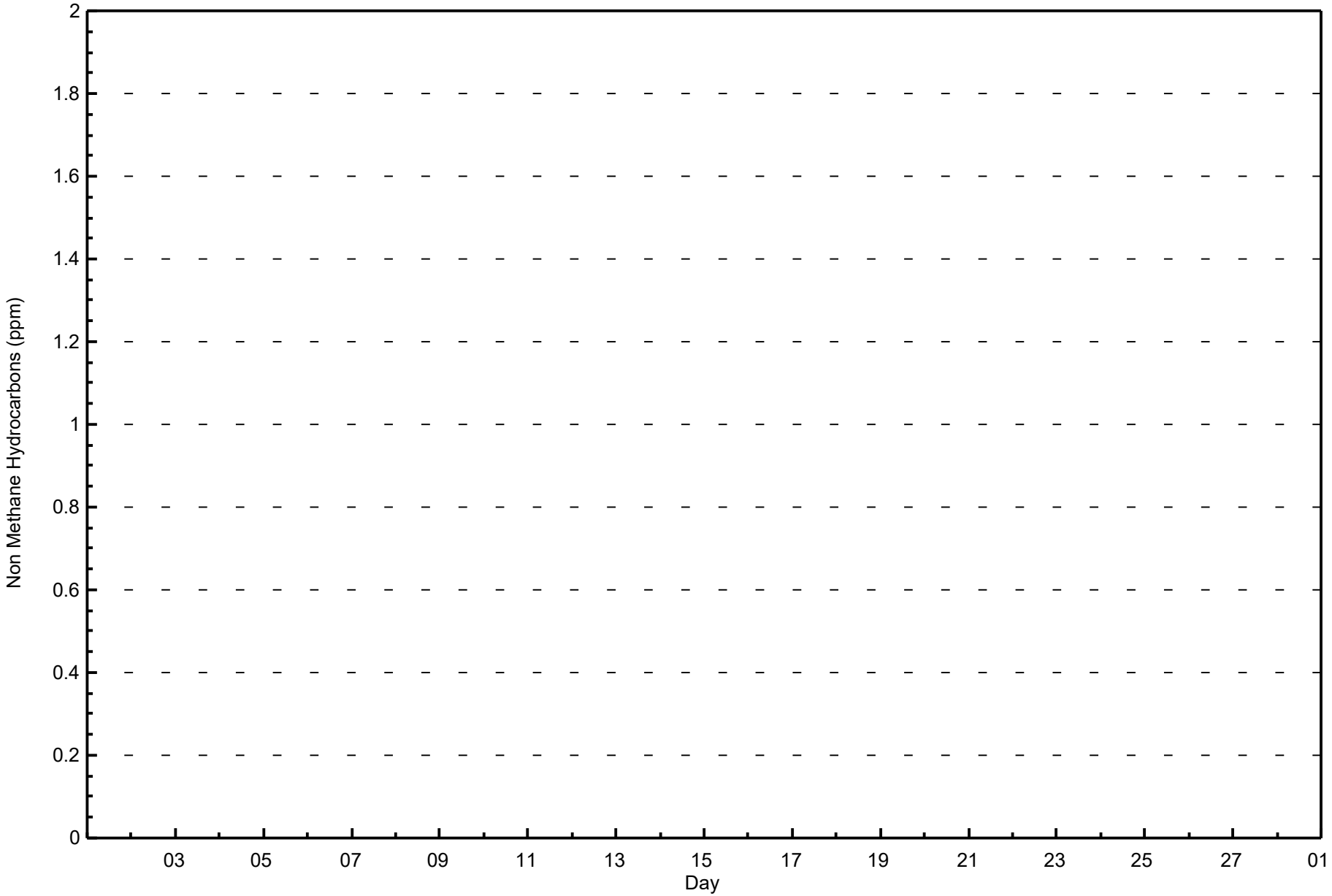
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Janvier - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Janvier - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	637	100.00	100.00
0.006 - 0.05	0	0.00	100.00
0.06 - 0.1	0	0.00	100.00
> 0.1	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Janvier - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	48	175	48	15	24	4	9	15	11	56	129	34	19	14	9	9	619
0.006 - 0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.06 - 0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	48	175	48	15	24	4	9	15	11	56	129	34	19	14	9	9	619

Total Number of Valid Hours: 619

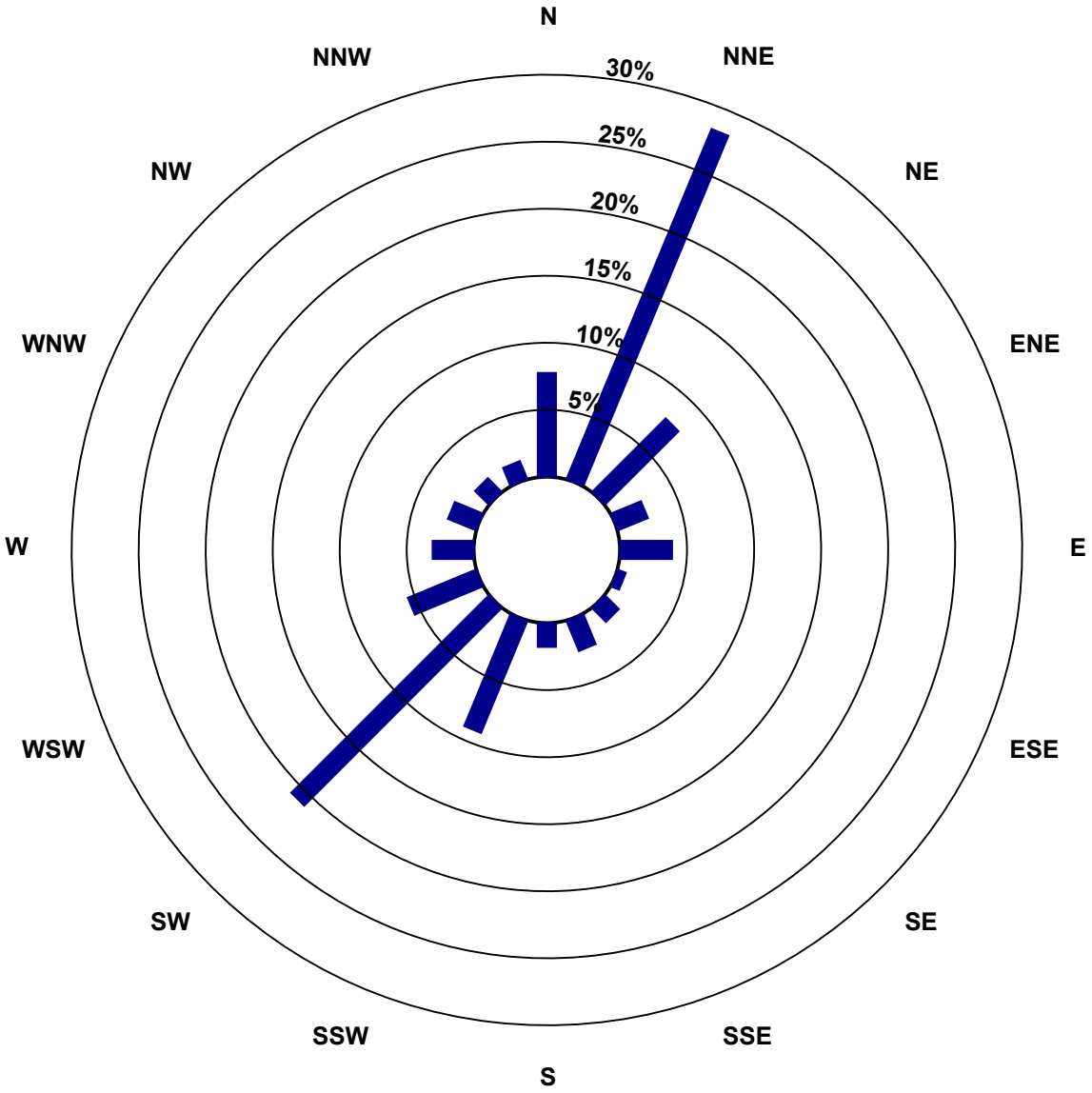
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Janvier



Classes (ppm)

- 0 - 0.005
- 0.006 - 0.05
- 0.06 - 0.1
- > 0.1

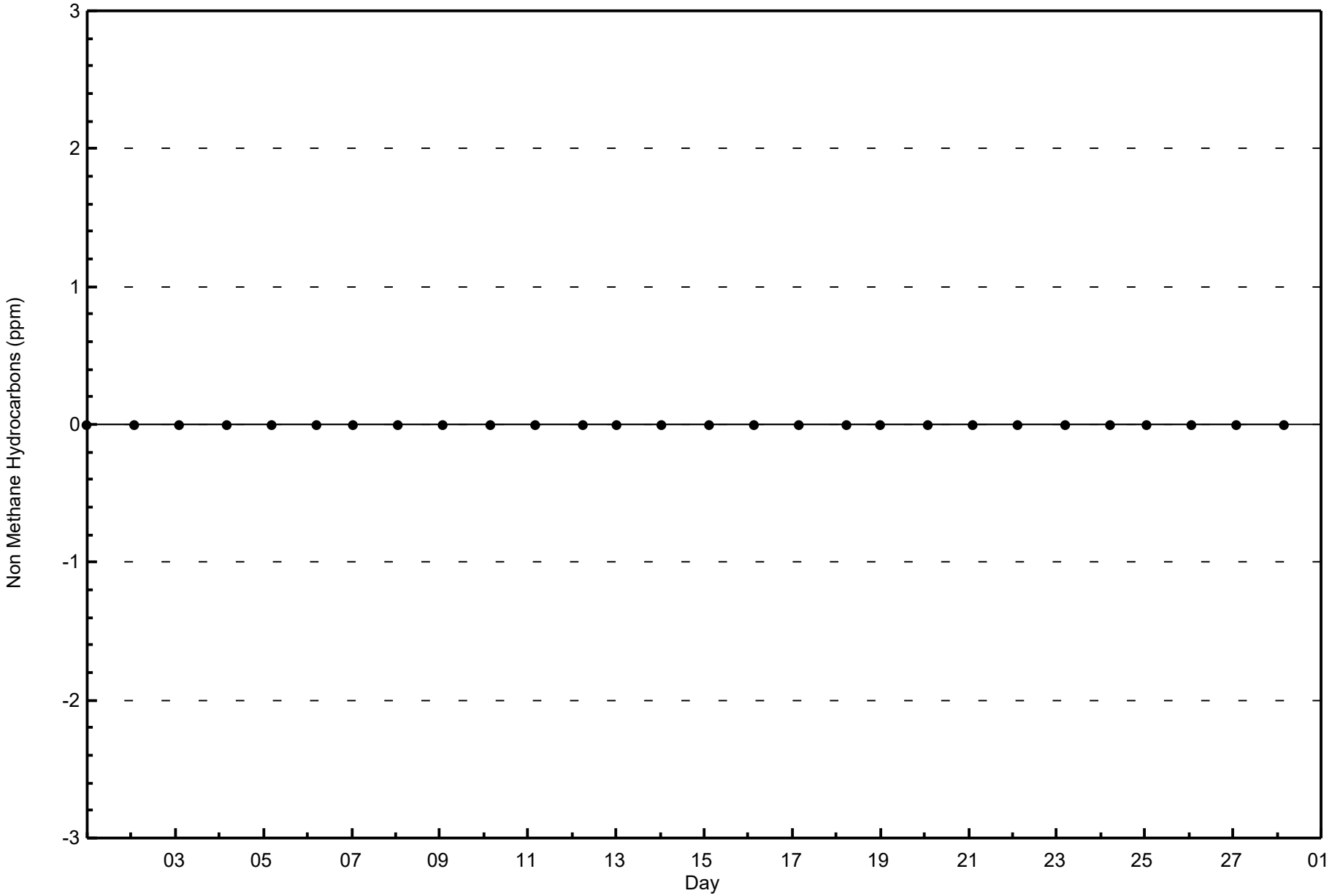
Total Number of Valid Hours: 619

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Janvier - February 2026

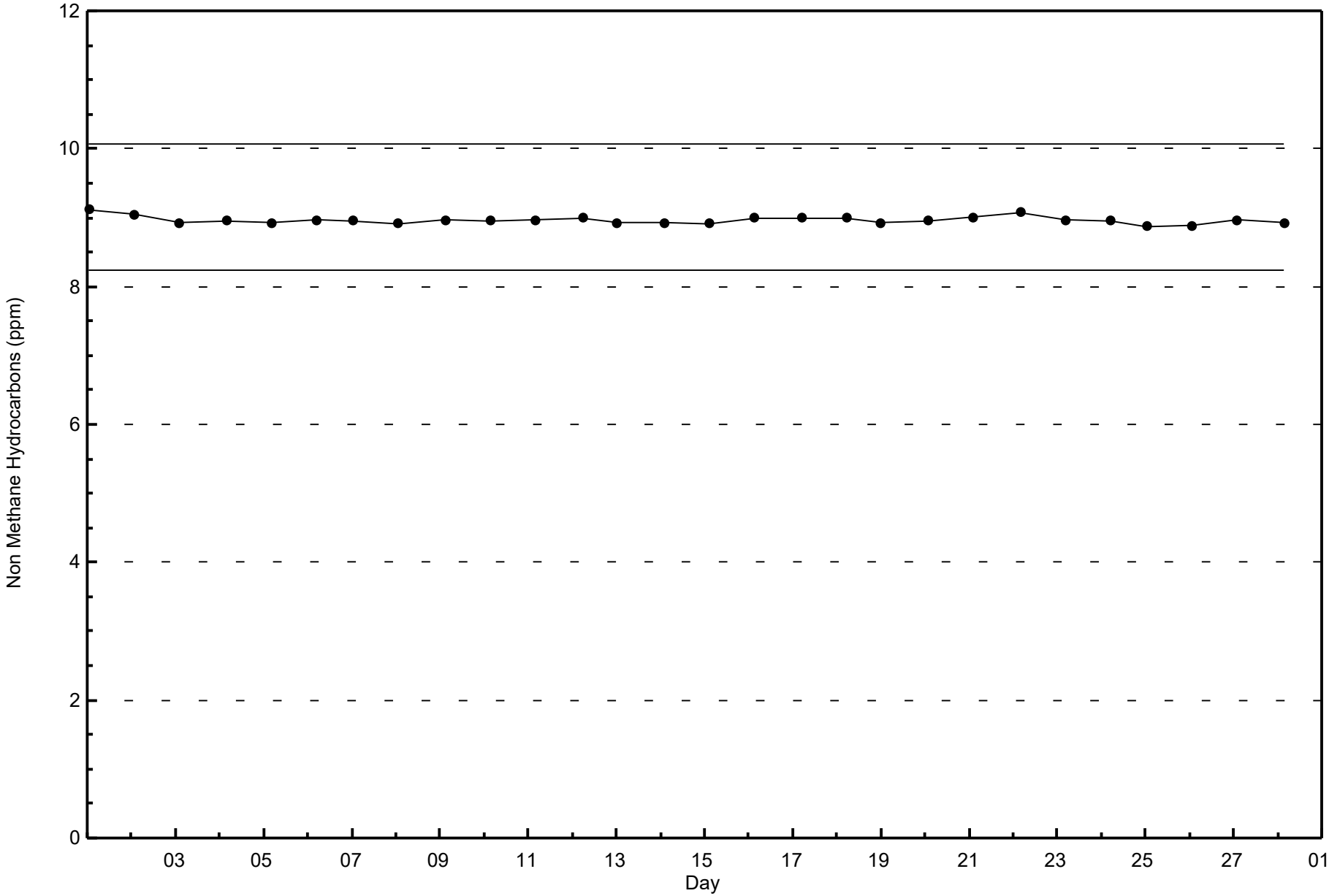


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Janvier - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Janvier - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 2.2 ppm on Feb 7 19:00 Maximum Daily Average: 2.1 ppm on Feb 7

Minimum Value: 2.0 ppm on Feb 1 02:00 Minimum Daily Average: 2.0 ppm on Feb 1

Maximum Diurnal Average: 2.1 ppm at hour 9 Minimum Diurnal Average: 2.0 ppm at hour 16

Monthly Average: 2.05 ppm Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.0 Median = 2.0 Q_3 = 2.1 P_{90} = 2.1 P_{99} = 2.1

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	33
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
2-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	C	C	C	C	C	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1
3-Feb	2.1	2.1	Z	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2
4-Feb	2.0	2.0	2.0	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
5-Feb	2.0	2.0	2.1	2.1	Z	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1
6-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1
7-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2
8-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
9-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1
10-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
11-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
12-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
13-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
14-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
15-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
16-Feb	2.1	2.1	2.1	Z	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1
17-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
18-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
19-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20-Feb	2.0	Z	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
21-Feb	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1
22-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
23-Feb	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1
24-Feb	2.1	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
25-Feb	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
26-Feb	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1
27-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	M	M	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
28-Feb	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1
	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	Diurnal Average	
	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	Diurnal Maximum	

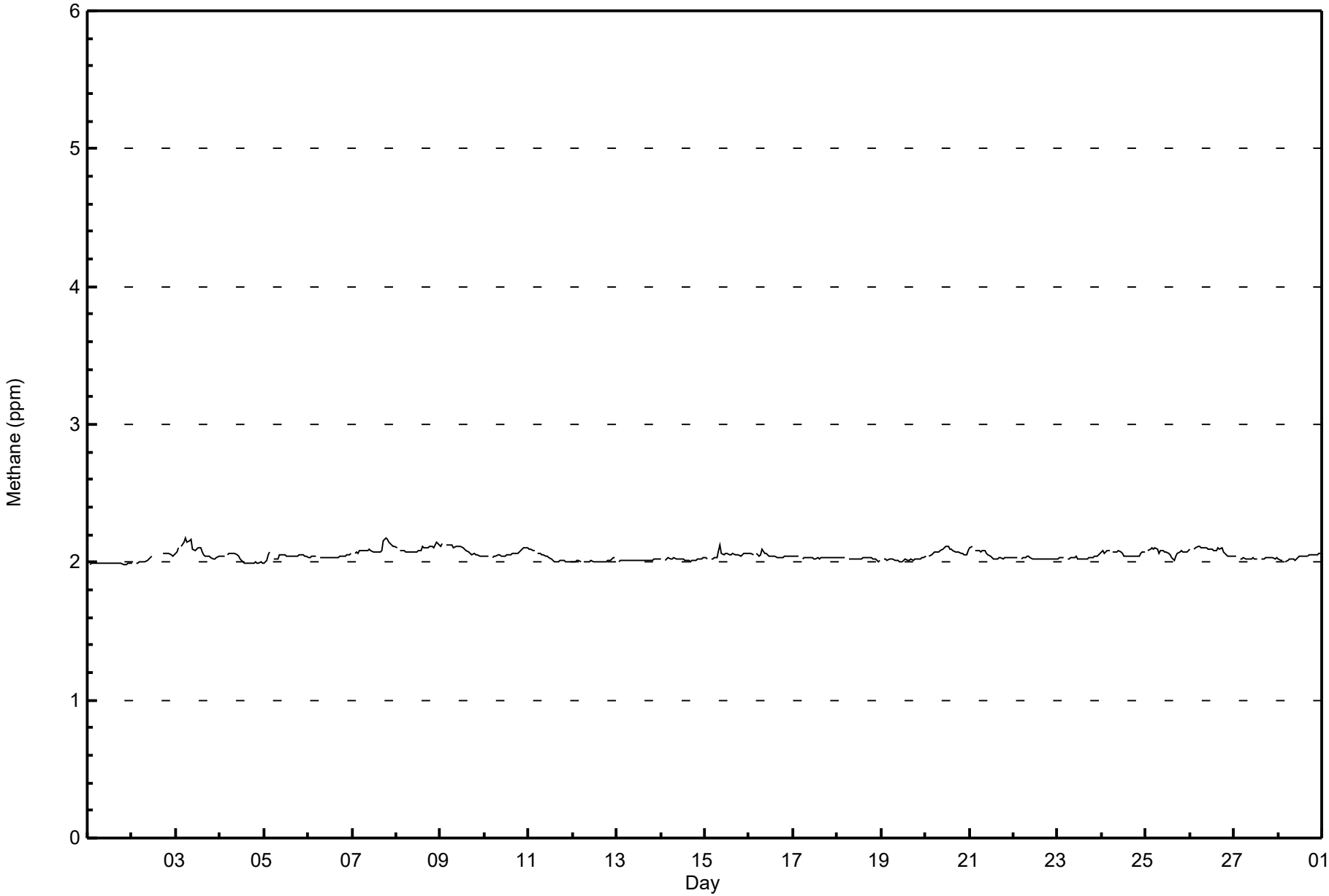
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Janvier - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	396	62.17	62.17
2.1 - 3.0	241	37.83	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Janvier - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	27	81	33	10	21	3	8	13	9	37	92	26	16	9	1	3	389
2.1 - 3.0	21	94	15	5	3	1	1	2	2	19	37	8	3	5	8	6	230
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	48	175	48	15	24	4	9	15	11	56	129	34	19	14	9	9	619

Total Number of Valid Hours: 619

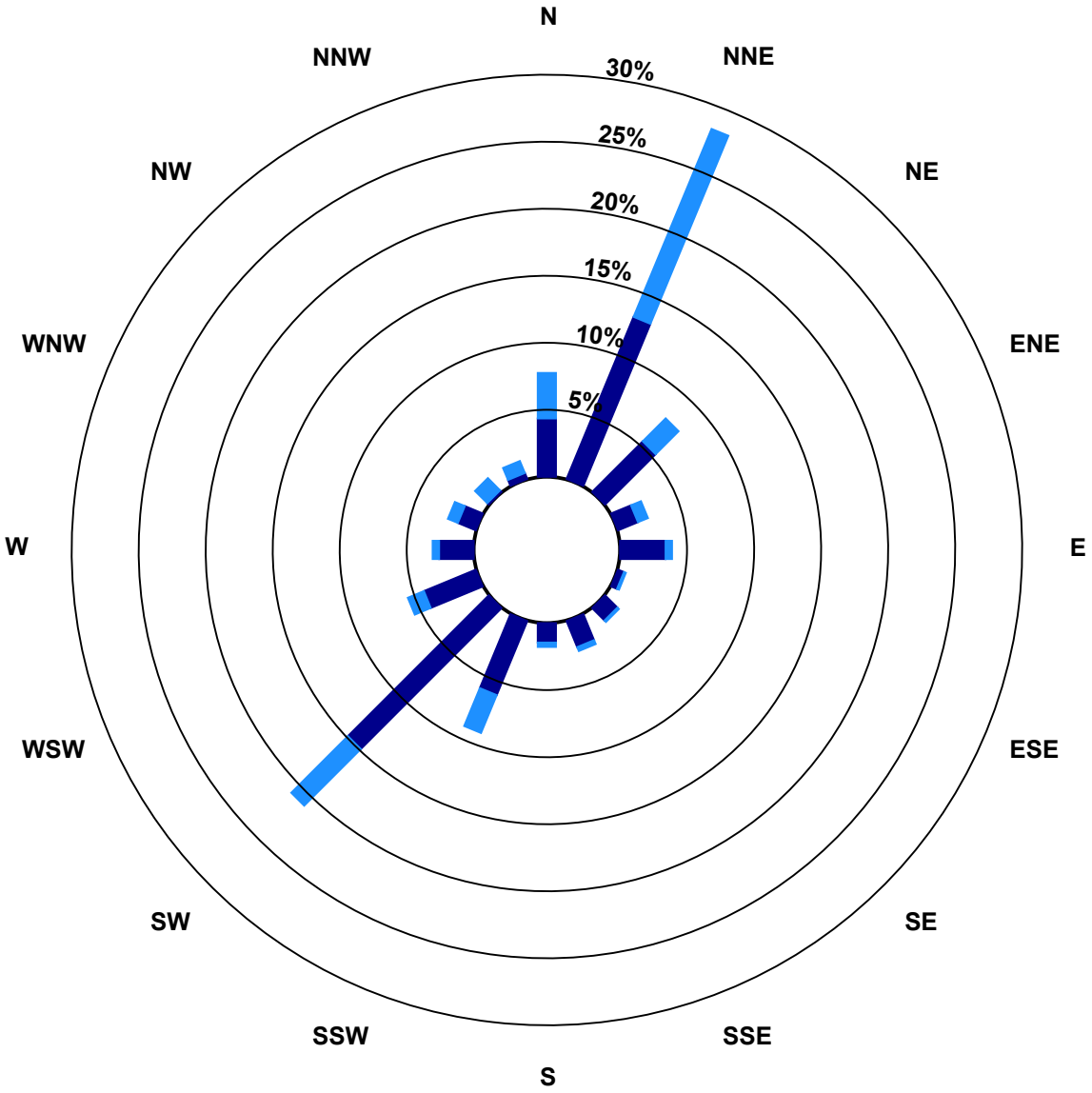
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Janvier



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

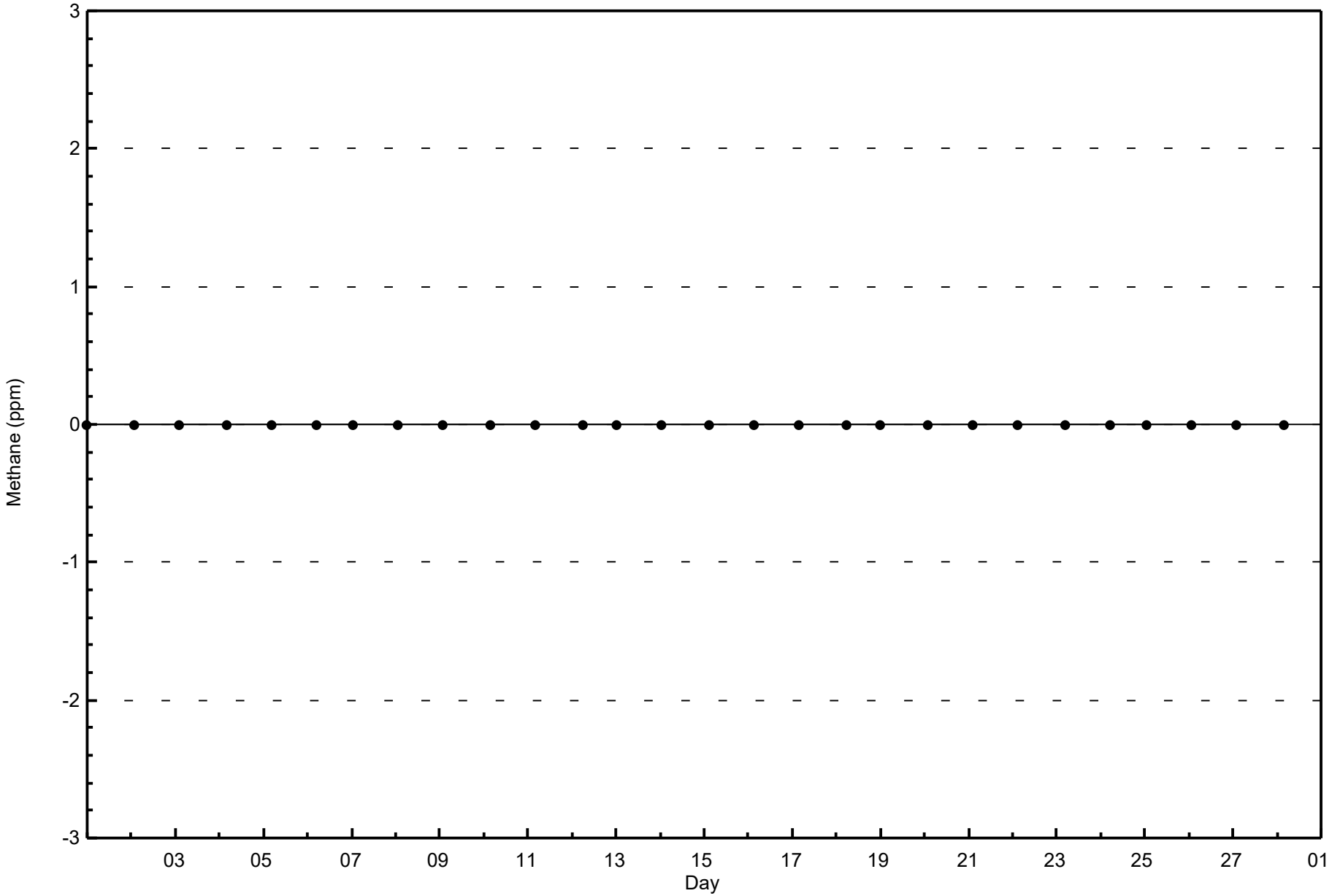
Total Number of Valid Hours: 619

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Janvier - February 2026

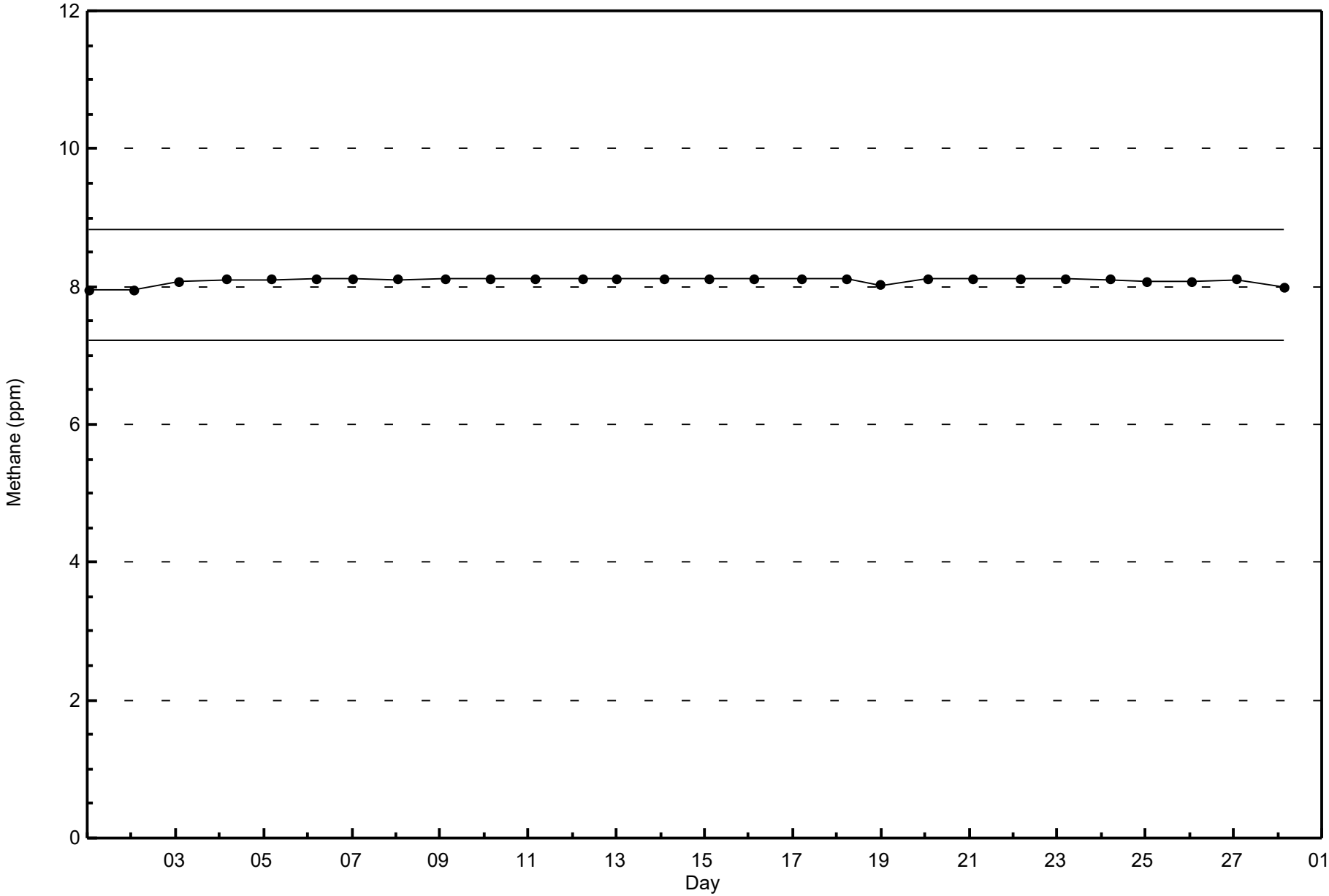


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Janvier - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Janvier - February 2026

Maximum Value: 9.1 ppb on Feb 25 16:00

Maximum Daily Average: 1.0 ppb on Feb 20

Minimum Value: 0.0 ppb on Feb 16 07:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 0.8 ppb at hour 10

Minimum Diurnal Average: 0.0 ppb at hour 5

Monthly Average: 0.37 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.4 P_{90} = 1.0 P_{99} = 2.8

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.1	0.1	0.4	0.5	0.2	0.2	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.2	0.5
2-Feb	0.0	0.1	0.0	0.0	0.2	Z	0.0	0.3	0.8	1.1	0.7	0.9	0.6	0.7	0.5	1.4	0.2	0.9	1.2	0.8	0.3	0.1	0.1	0.1	0.5	1.4
3-Feb	Z	0.1	0.0	0.0	0.0	0.1	0.0	0.6	0.6	0.5	0.7	0.9	1.2	1.0	0.7	0.6	0.1	0.2	0.6	0.2	0.0	0.0	0.1	0.0	0.4	1.2
4-Feb	0.0	Z	0.1	0.0	0.1	0.0	0.0	0.3	0.1	0.3	0.4	0.6	0.8	0.3	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.4	0.1	0.3	0.2	0.8
5-Feb	0.4	0.0	Z	0.0	0.1	0.1	0.0	0.0	0.1	0.2	0.5	0.7	0.8	0.7	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.2	0.8
6-Feb	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.1	0.0	0.2	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.3	1.7	0.1	0.1	0.3	0.9	0.2	0.2	1.7
7-Feb	0.9	0.1	0.3	0.4	Z	0.9	0.2	1.8	1.3	0.4	0.5	0.7	0.7	0.7	0.6	0.6	0.3	0.2	0.1	0.1	0.0	0.1	0.1	0.0	0.5	1.8
8-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.1	1.3	0.5	0.4	0.4	0.4	0.6	0.7	0.6	0.2	0.1	0.1	0.2	0.0	0.1	0.1	0.0	0.3	1.3
9-Feb	Z	0.0	0.1	0.0	0.0	0.0	0.2	0.2	0.5	1.1	1.6	2.0	2.0	1.7	1.1	0.6	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0
10-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.4	0.5	0.3	0.7	0.6	3.2	1.8	2.5	0.4	0.5	1.2	0.3	0.3	0.2	0.2	0.6	3.2
11-Feb	0.1	0.1	Z	0.0	0.0	0.1	0.0	0.1	0.6	0.5	0.6	0.4	0.3	0.1	0.1	0.1	0.1	0.5	0.3	0.1	0.0	0.1	0.0	0.0	0.2	0.6
12-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.6	0.3	0.5	0.4	0.2	0.2	0.2	0.1	0.4	0.3	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.6
13-Feb	0.1	0.1	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.3
14-Feb	0.1	0.1	0.1	0.0	0.0	Z	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.4	0.0	0.1	0.1	0.0	0.0	0.1	0.4
15-Feb	Z	0.0	0.1	0.1	0.0	0.0	0.0	0.7	0.7	0.7	1.1	2.3	1.7	1.1	1.0	1.0	0.5	0.1	0.3	0.0	0.1	0.1	0.0	0.0	0.5	2.3
16-Feb	0.1	Z	0.2	0.2	0.0	0.0	0.0	2.3	3.6	2.8	0.7	0.5	0.4	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6
17-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.3	0.7	0.9	1.0	0.8	0.8	1.0	1.1	0.7	0.4	0.4	1.1	1.4	4.9	1.5	2.0	0.8	4.9
19-Feb	0.3	0.3	0.2	0.1	Z	0.8	0.7	0.9	1.8	2.7	1.0	1.2	0.4	0.6	0.4	0.4	0.6	0.6	0.7	0.4	0.3	0.2	0.1	0.2	0.6	2.7
20-Feb	0.1	0.2	0.1	0.3	0.0	Z	0.4	0.5	1.4	1.4	2.4	3.0	3.3	2.5	2.3	1.4	0.7	1.6	0.3	0.5	0.1	0.0	0.0	0.0	1.0	3.3
21-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	1.5	0.9	1.1	0.5	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.3	1.5
22-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.4	0.2	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.1	1.4
23-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.1	1.1	0.8	0.4	0.4	0.4	0.4	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.4	0.7	0.1	0.2	0.3	1.1
24-Feb	0.4	0.4	0.0	Z	0.1	0.0	0.0	0.6	0.5	0.9	1.1	1.0	0.6	0.8	0.4	0.3	0.3	0.3	0.3	0.8	0.5	0.2	0.0	0.0	0.4	1.1
25-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	2.0	0.5	1.7	0.8	0.6	0.4	0.4	9.1	0.3	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.7	9.1
26-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0
27-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.9	2.2	C	C	C	C	C	0.8	0.4	0.3	0.6	0.4	0.4	0.4	0.3	0.4	2.2
28-Feb	0.0	Z	0.3	0.1	0.0	0.0	0.4	0.5	2.3	1.6	1.3	1.3	0.7	0.5	0.4	0.3	0.2	0.1	0.4	0.0	0.1	0.0	0.0	0.0	0.5	2.3
	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.4	0.8	0.8	0.8	0.8	0.7	0.5	0.5	0.8	0.4	0.3	0.3	0.2	0.2	0.3	0.2	0.1	Diurnal Average	
	0.9	0.4	0.3	0.4	0.2	0.9	0.7	2.3	3.6	2.8	2.4	3.0	3.3	2.5	3.2	9.1	2.5	1.6	1.7	1.2	1.4	4.9	1.5	2.0	Diurnal Maximum	

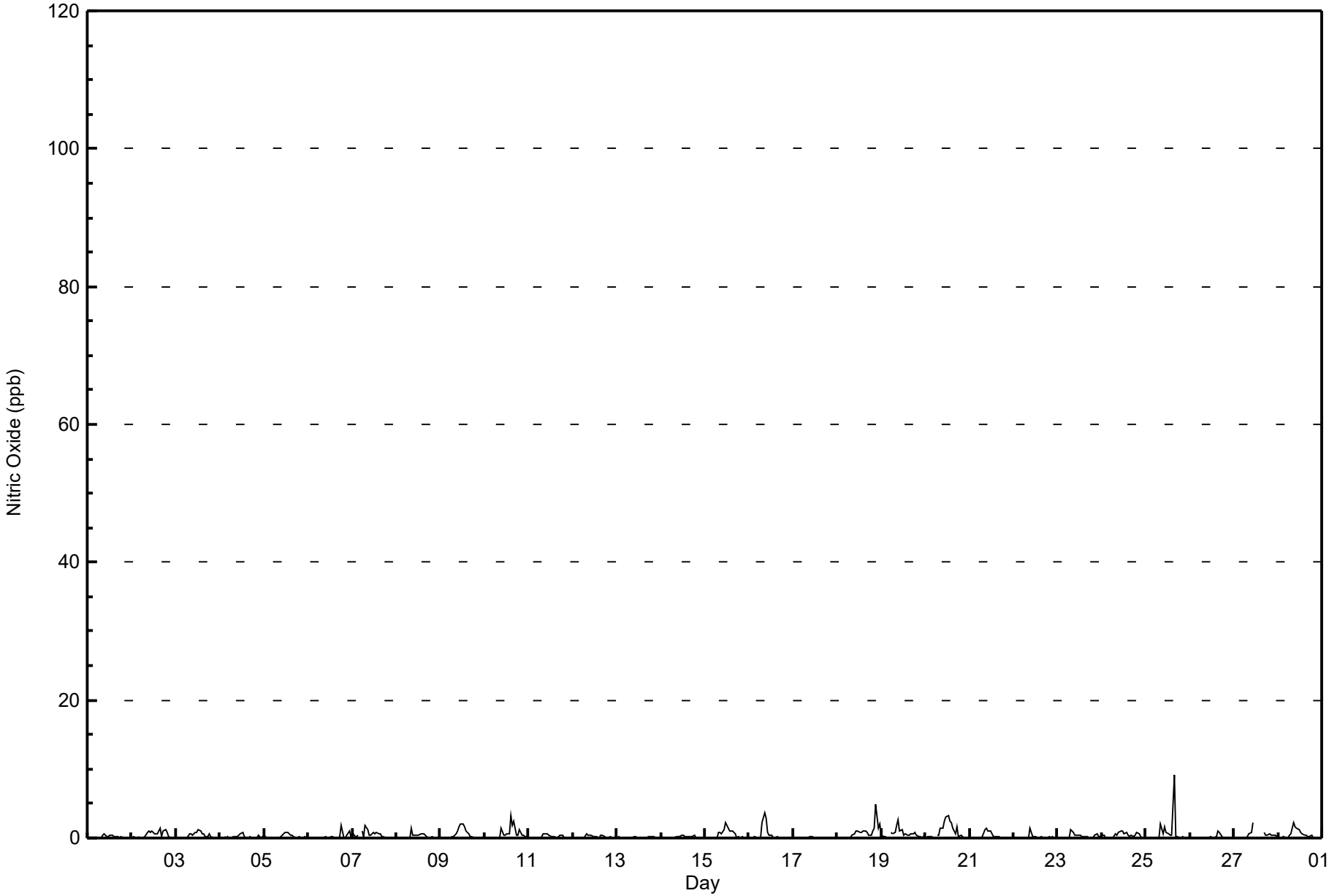
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Janvier - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	639	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Janvier - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	50	167	51	15	24	4	10	14	11	58	134	33	18	14	9	9	621
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	50	167	51	15	24	4	10	14	11	58	134	33	18	14	9	9	621

Total Number of Valid Hours: 621

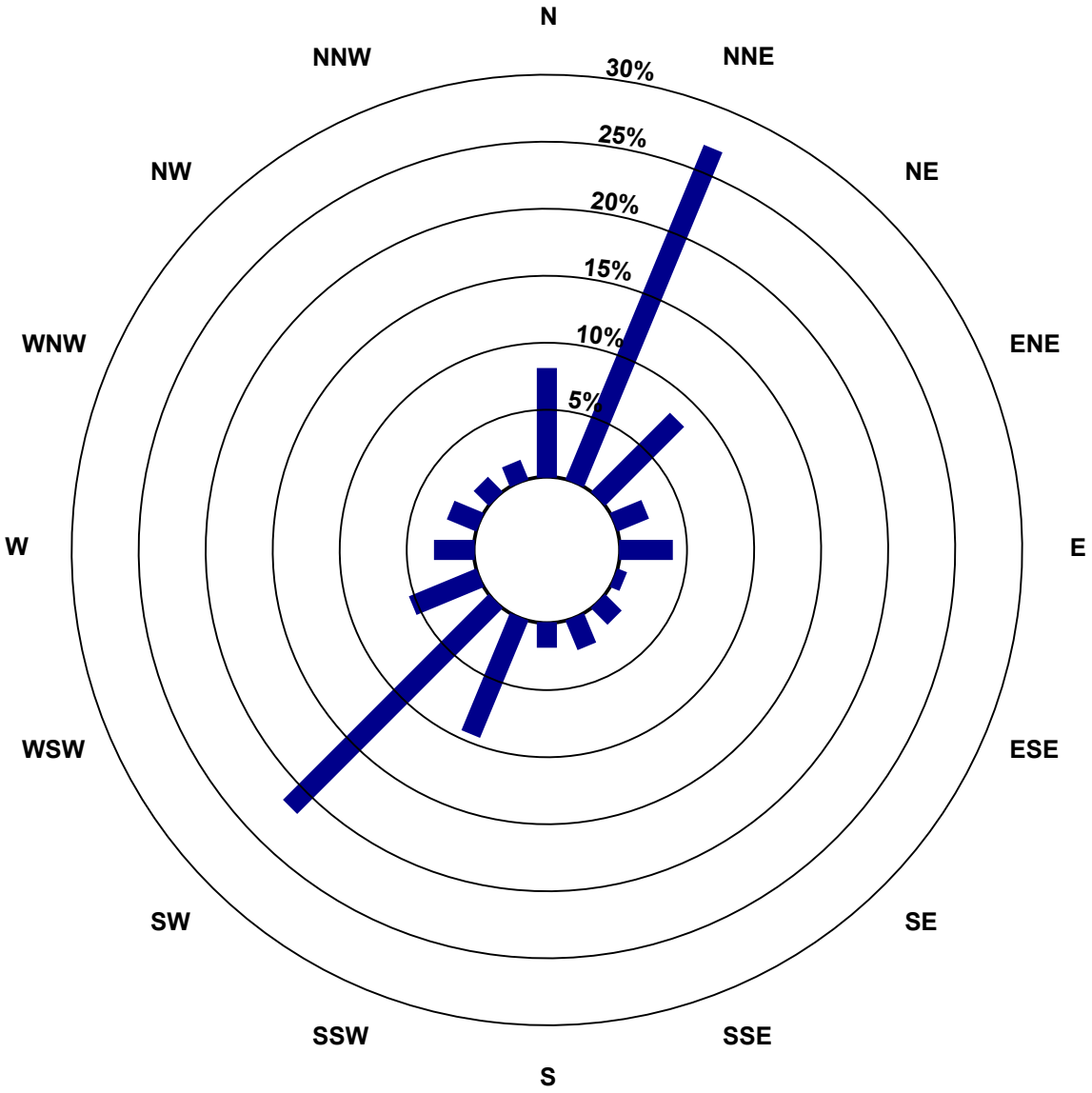
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Janvier



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

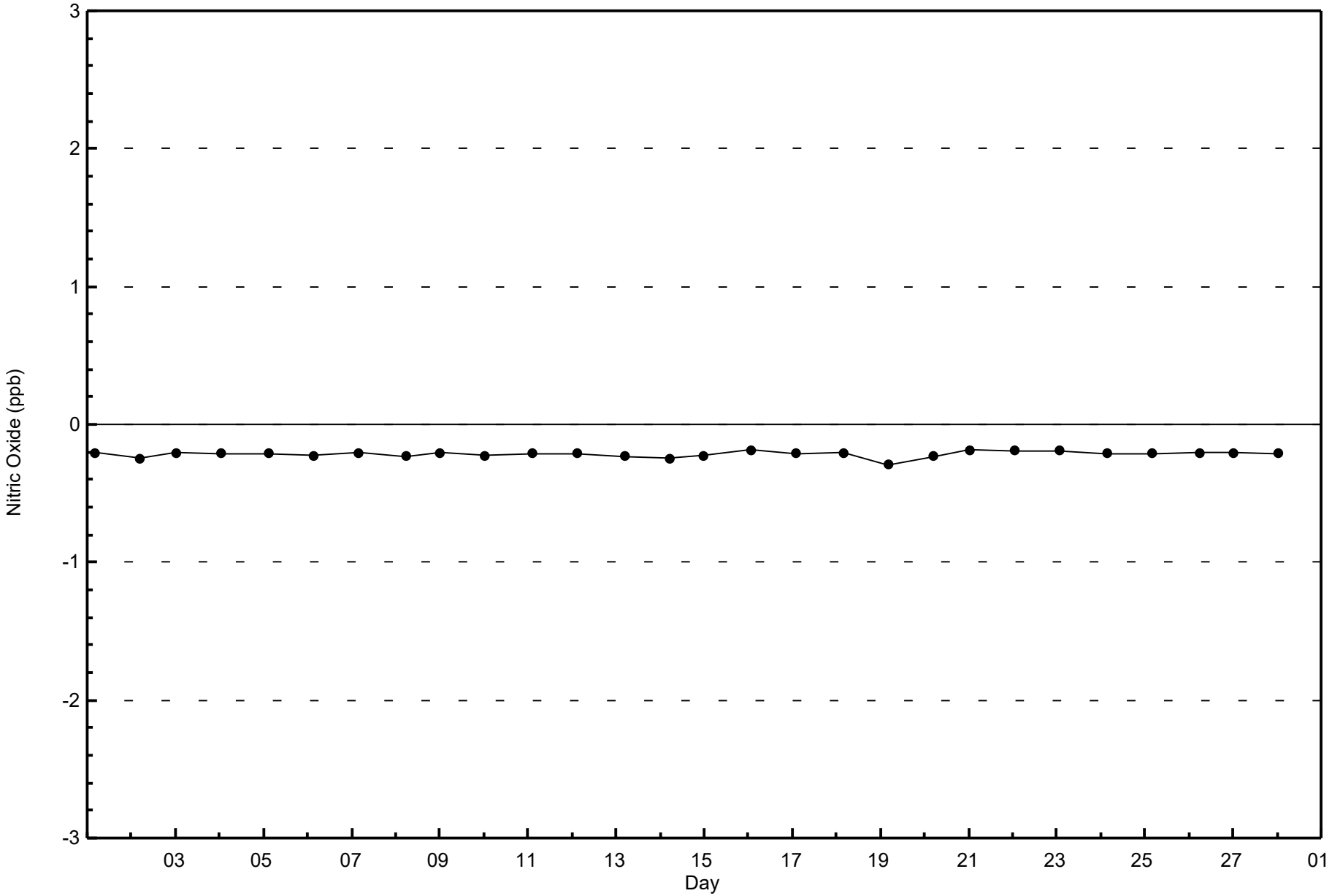
Total Number of Valid Hours: 621

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Janvier - February 2026

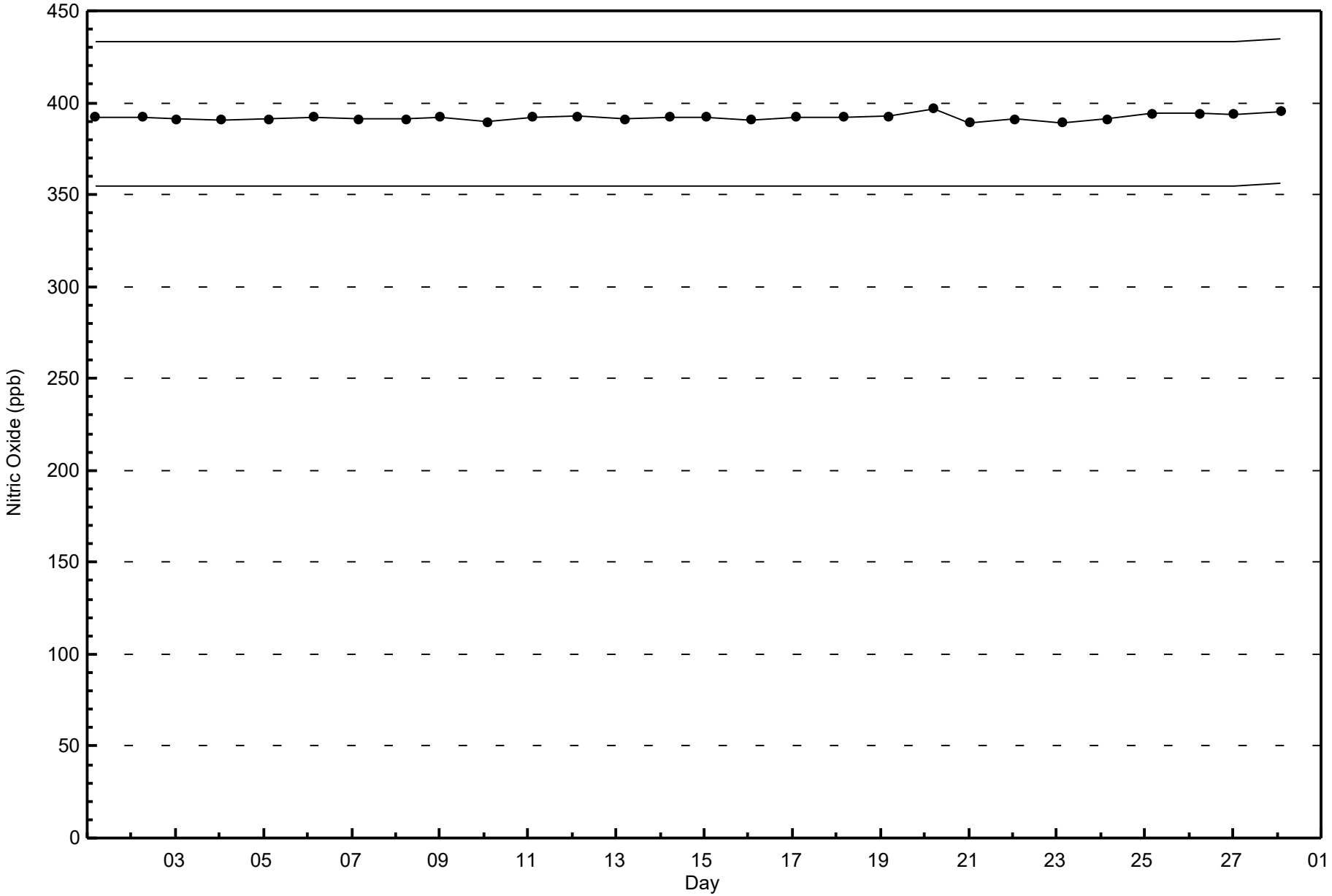


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Janvier - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Janvier - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 12.8 ppb on Feb 21 02:00

Maximum Daily Average: 4.9 ppb on Feb 20

Minimum Value: 0.2 ppb on Feb 17 14:00

Minimum Daily Average: 0.3 ppb on Feb 17

Maximum Diurnal Average: 3.2 ppb at hour 9

Minimum Diurnal Average: 1.4 ppb at hour 14

Monthly Average: 2.40 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.4 Q_1 = 0.9 Median = 1.7 Q_3 = 3.3 P_{90} = 5.1 P_{99} = 9.6

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.3	0.8	0.8	1.1	Z	1.7	1.4	1.2	1.5	0.7	0.7	0.7	0.6	0.8	0.6	0.5	0.4	0.5	0.6	0.4	0.4	0.3	0.4	0.6	0.8	1.7
2-Feb	0.8	1.1	1.1	1.2	1.4	Z	1.9	2.7	3.4	3.5	3.4	2.7	2.3	2.2	2.4	3.2	2.8	3.8	4.1	3.9	4.4	2.9	1.5	2.0	2.6	4.4
3-Feb	Z	3.6	5.3	5.5	7.8	9.7	8.2	9.3	8.4	4.8	3.7	3.8	4.3	4.0	2.5	1.8	1.3	3.5	4.4	3.1	2.0	1.3	1.9	2.4	4.5	9.7
4-Feb	2.5	Z	3.3	3.7	2.9	2.7	2.6	2.4	2.5	2.3	1.8	1.9	1.3	1.1	0.9	0.8	1.0	1.1	1.2	2.6	1.6	2.4	1.9	1.6	2.0	3.7
5-Feb	2.6	1.8	Z	3.2	2.6	1.0	0.7	0.5	2.0	2.5	2.8	2.7	2.3	2.2	1.6	2.1	3.0	3.7	3.2	3.5	5.1	4.2	4.2	2.5	2.6	5.1
6-Feb	1.2	1.3	1.5	Z	2.1	1.2	1.0	1.0	0.7	0.6	0.4	0.5	0.4	0.4	0.3	0.3	0.3	1.8	2.5	2.2	1.8	3.0	1.8	1.7	1.2	3.0
7-Feb	1.3	1.8	1.1	1.5	Z	2.2	2.7	3.0	3.7	1.9	1.7	2.2	2.0	2.4	2.7	2.7	4.2	11.0	11.5	9.5	7.7	5.9	4.7	4.2	4.0	11.5
8-Feb	3.8	3.1	2.3	2.0	1.9	Z	1.3	1.2	4.1	2.7	1.4	1.4	1.2	2.0	3.0	3.4	3.6	4.5	5.4	4.7	4.4	6.9	9.7	8.2	3.6	9.7
9-Feb	Z	7.0	6.7	7.4	8.1	8.2	8.3	6.3	6.2	4.6	4.1	3.7	3.4	3.3	2.6	2.5	2.2	1.9	1.6	1.3	1.0	0.8	0.7	0.8	4.0	8.3
10-Feb	0.7	Z	0.7	0.7	0.6	0.6	0.7	0.7	0.6	2.5	1.0	0.7	0.9	1.1	3.5	2.8	4.8	3.0	2.7	3.2	4.5	4.7	4.7	4.6	2.2	4.8
11-Feb	4.2	4.0	Z	3.5	3.3	3.2	2.7	2.5	3.1	2.7	2.4	1.4	1.1	0.9	0.9	0.8	1.1	1.8	2.5	1.3	1.2	1.0	0.9	0.7	2.1	4.2
12-Feb	0.8	0.8	1.0	Z	0.9	0.8	0.9	2.3	1.3	1.6	1.2	0.8	0.9	0.8	0.6	1.3	1.4	1.2	1.1	1.2	2.2	3.3	4.1	3.6	1.5	4.1
13-Feb	2.5	1.4	1.1	0.7	Z	0.8	0.9	0.8	0.9	0.9	0.7	0.5	0.4	0.4	0.4	0.5	0.4	0.9	1.2	1.2	1.2	0.7	1.6	1.4	0.9	2.5
14-Feb	1.1	0.9	1.1	1.0	0.9	Z	1.3	1.7	1.0	0.9	1.1	1.2	1.3	1.1	0.8	0.6	0.5	1.1	2.3	1.0	1.0	1.2	1.1	1.1	1.1	2.3
15-Feb	Z	1.3	1.7	1.3	1.0	1.1	1.0	6.0	12.3	3.8	3.7	4.6	4.0	2.9	3.2	4.6	5.0	4.5	5.6	4.4	6.4	7.7	7.4	6.2	4.3	12.3
16-Feb	5.6	Z	3.8	2.8	3.8	2.7	3.8	5.8	6.8	3.9	1.2	0.7	0.5	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.5	0.5	0.4	2.0	6.8
17-Feb	0.3	0.3	Z	0.4	0.3	0.3	0.3	0.4	0.3	0.5	0.5	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5
18-Feb	0.2	0.2	0.4	Z	1.2	1.4	1.2	1.4	1.2	1.0	0.8	0.8	0.7	0.8	0.9	1.0	1.3	1.5	2.0	2.6	2.9	3.2	3.3	5.6	1.5	5.6
19-Feb	2.9	2.9	3.5	3.6	Z	3.4	2.8	2.5	1.6	1.6	0.8	0.7	0.6	0.7	0.6	0.7	0.4	1.4	2.0	1.7	1.9	1.9	1.6	1.7	1.8	3.6
20-Feb	2.0	3.0	3.5	4.4	3.4	Z	5.5	4.2	4.4	3.7	3.7	4.3	5.2	4.8	4.9	4.7	5.2	9.0	7.6	6.5	7.3	4.2	3.7	7.5	4.9	9.0
21-Feb	Z	12.8	11.3	9.0	7.9	7.0	5.8	6.5	5.9	4.5	2.7	2.3	1.5	0.8	0.8	1.1	1.1	1.3	1.2	1.4	1.6	1.3	0.9	0.5	3.9	12.8
22-Feb	0.4	Z	1.0	0.6	0.5	0.4	0.4	0.7	1.0	1.1	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.6	0.4	0.4	0.5	1.1
23-Feb	0.3	0.3	Z	0.3	0.2	0.2	0.4	2.3	2.5	0.8	0.9	1.0	1.0	0.7	0.9	1.0	1.4	1.6	2.7	2.8	4.9	6.7	4.9	3.4	1.8	6.7
24-Feb	2.7	2.0	1.6	Z	1.7	1.6	1.8	2.2	2.2	1.8	1.6	1.6	1.1	1.3	1.2	1.3	2.0	2.1	2.4	3.6	2.6	6.2	4.2	3.7	2.3	6.2
25-Feb	2.5	1.3	1.5	1.0	Z	1.2	1.0	1.2	3.8	1.7	2.4	1.8	1.8	1.4	1.6	7.8	2.6	3.2	3.5	5.0	2.9	2.4	2.2	1.6	2.4	7.8
26-Feb	1.3	1.2	1.2	1.2	1.3	Z	1.3	1.1	1.1	0.9	1.0	1.1	0.9	0.9	1.7	4.9	4.7	6.1	5.4	3.5	1.9	1.7	2.1	2.4	2.1	6.1
27-Feb	Z	2.2	2.3	1.5	1.8	1.9	1.4	1.8	2.0	1.9	2.3	C	C	C	C	C	3.0	4.8	6.0	7.1	6.8	6.4	6.3	6.1	3.6	7.1
28-Feb	6.0	Z	5.0	5.0	4.7	5.0	5.1	4.9	4.5	2.7	1.9	1.6	1.2	1.1	1.1	1.1	1.3	1.6	1.9	1.6	1.8	1.8	2.5	2.6	2.9	6.0
	2.0	2.4	2.6	2.6	2.6	2.5	2.4	2.7	3.2	2.2	1.8	1.7	1.5	1.4	1.5	1.9	2.0	2.8	3.1	2.9	2.9	3.0	2.8	2.8	Diurnal Average	
	6.0	12.8	11.3	9.0	8.1	9.7	8.3	9.3	12.3	4.8	4.1	4.6	5.2	4.8	4.9	7.8	5.2	11.0	11.5	9.5	7.7	7.7	9.7	8.2	Diurnal Maximum	

Z - zerospan C - Calibration

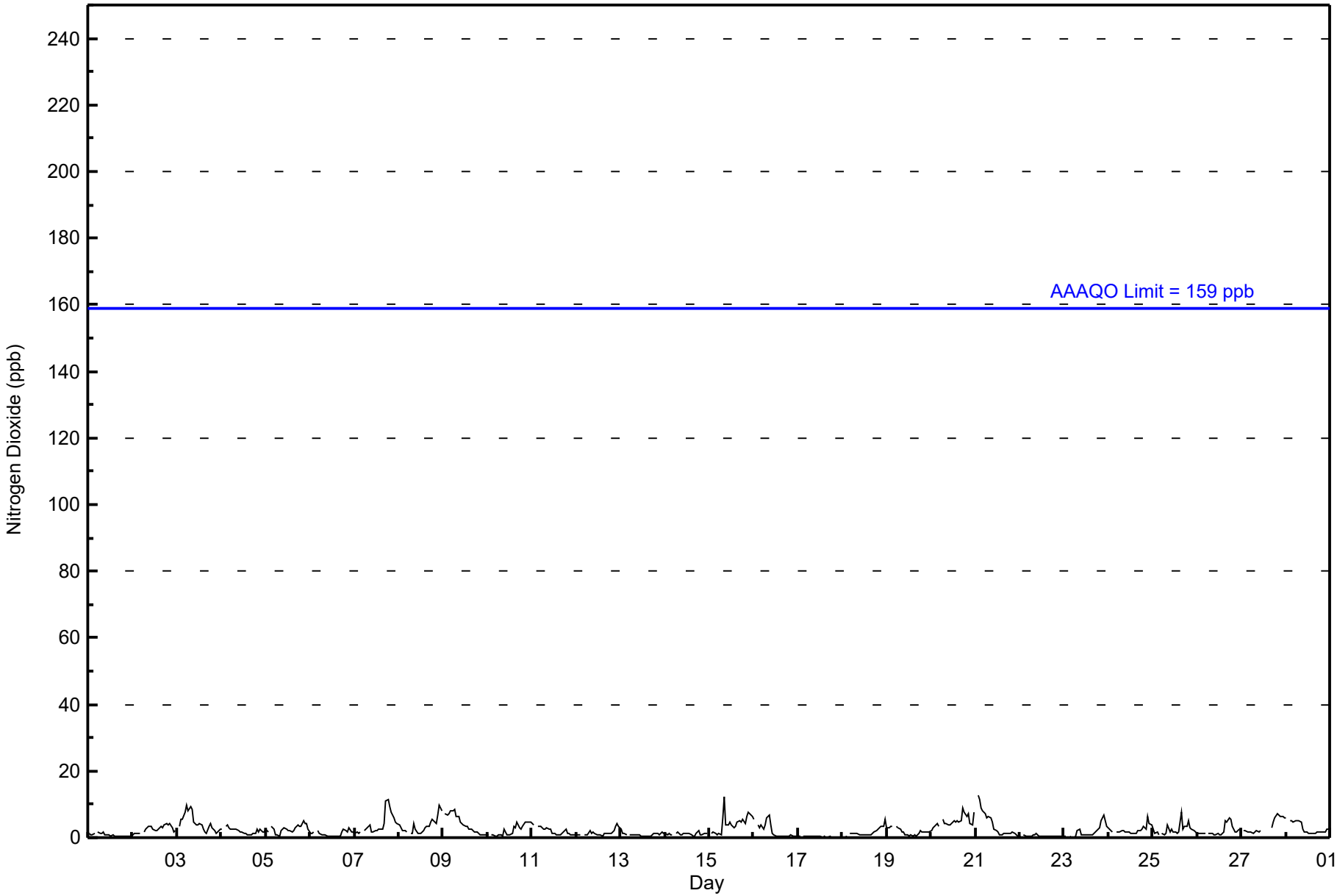
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Janvier - February 2026



Nitrogen Dioxide (NO_2) - ppb

Janvier - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	639	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Janvier - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	50	167	51	15	24	4	10	14	11	58	134	33	18	14	9	9	621
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	50	167	51	15	24	4	10	14	11	58	134	33	18	14	9	9	621

Total Number of Valid Hours: 621

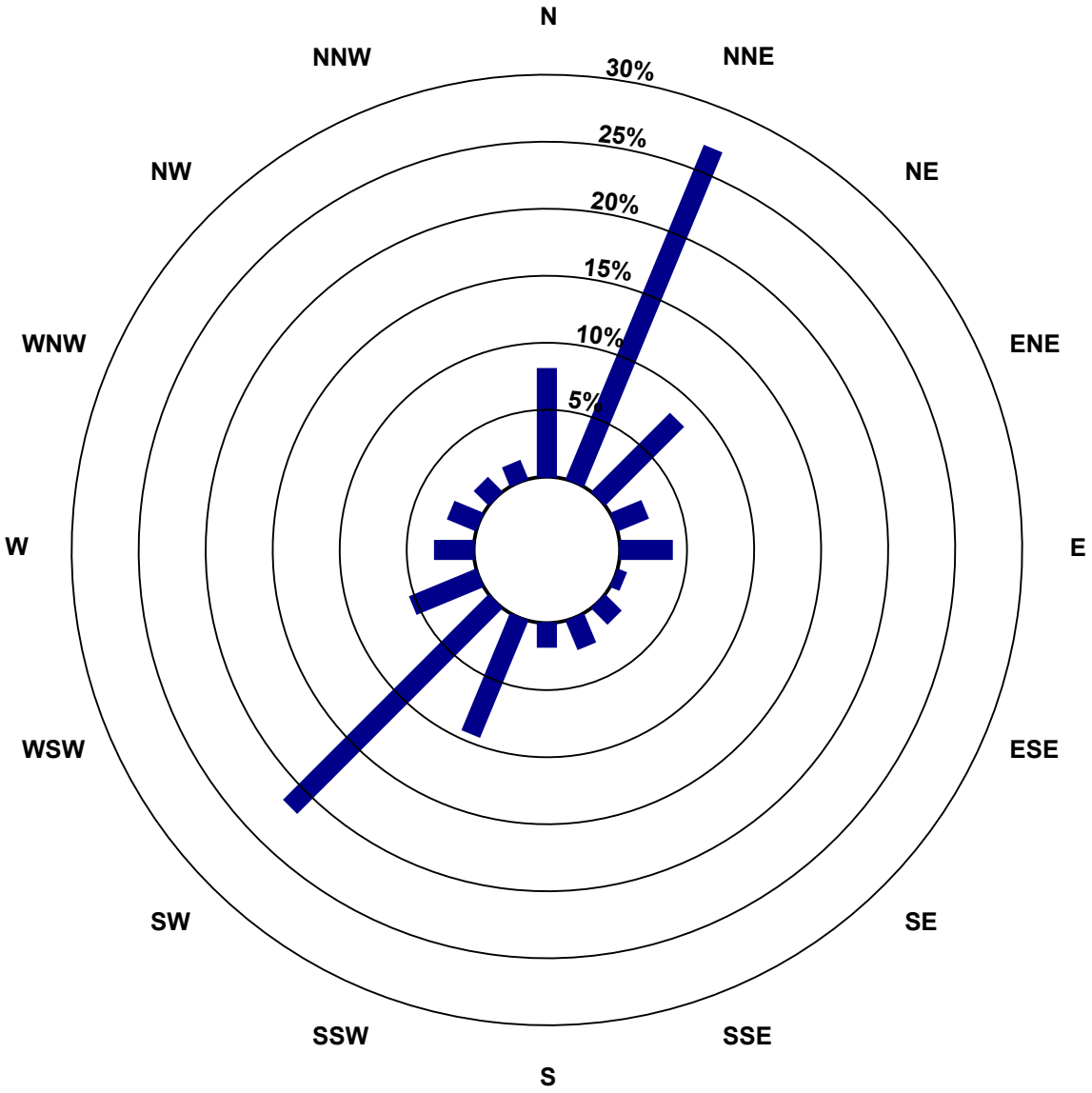
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Janvier



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

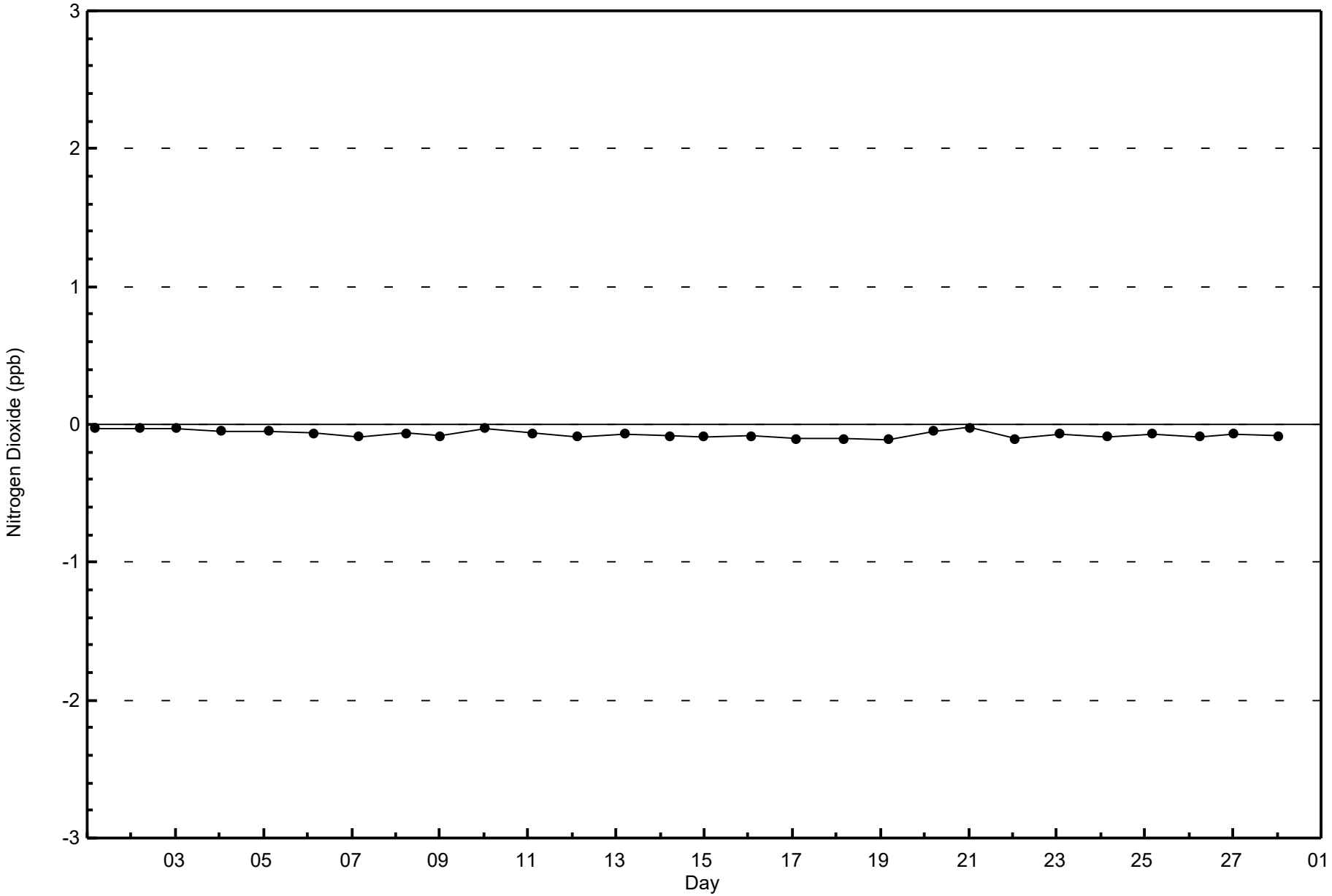
Total Number of Valid Hours: 621

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Janvier - February 2026

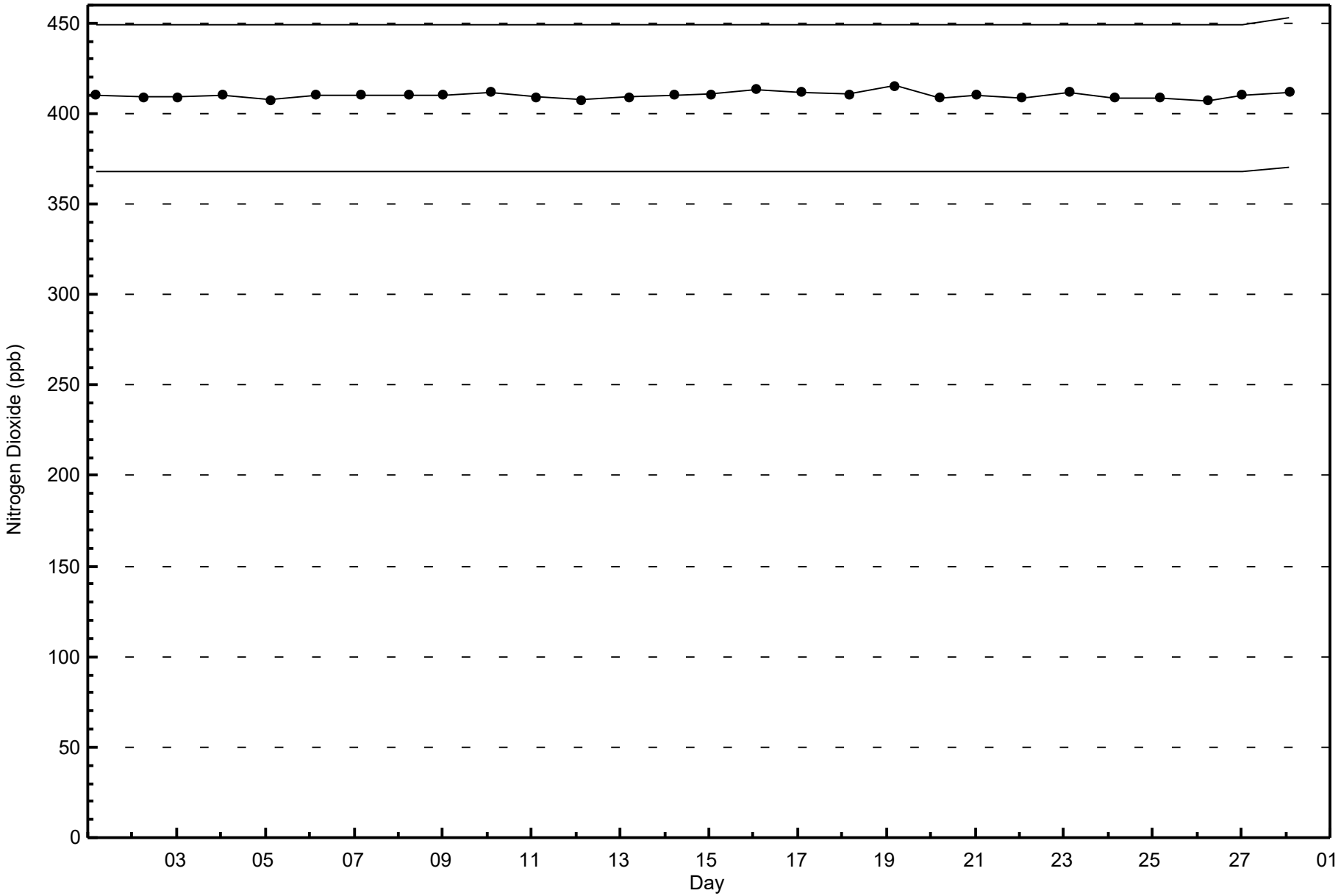


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Janvier - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Janvier - February 2026

Maximum Value: 16.9 ppb on Feb 25 16:00

Maximum Daily Average: 5.9 ppb on Feb 20

Minimum Value: 0.2 ppb on Feb 18 01:00

Minimum Daily Average: 0.3 ppb on Feb 17

Maximum Diurnal Average: 4.0 ppb at hour 9

Minimum Diurnal Average: 2.0 ppb at hour 14

Monthly Average: 2.76 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.5 Q_1 = 1.0 Median = 1.9 Q_3 = 3.8 P_{90} = 6.0 P_{99} = 10.5

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.3	0.8	0.8	1.1	Z	1.8	1.5	1.3	1.9	1.2	0.9	0.9	1.0	1.2	0.9	0.8	0.6	0.6	0.7	0.4	0.5	0.4	0.5	0.6	0.9	1.9
2-Feb	0.8	1.2	1.1	1.2	1.6	Z	1.9	3.0	4.2	4.6	4.1	3.6	2.9	2.9	2.9	4.6	3.0	4.7	5.3	4.7	4.7	3.0	1.6	2.1	3.0	5.3
3-Feb	Z	3.7	5.3	5.5	7.8	9.8	8.2	9.9	9.0	5.3	4.4	4.7	5.5	5.0	3.2	2.4	1.4	3.7	5.0	3.3	2.0	1.3	2.0	2.4	4.8	9.9
4-Feb	2.5	Z	3.4	3.7	3.0	2.7	2.6	2.7	2.6	2.6	2.2	2.5	2.1	1.4	1.0	0.8	1.1	1.1	1.2	2.7	1.7	2.8	2.0	1.9	2.2	3.7
5-Feb	3.0	1.8	Z	3.2	2.7	1.1	0.7	0.5	2.1	2.7	3.3	3.4	3.1	2.9	2.0	2.4	3.2	3.8	3.3	3.6	5.1	4.2	4.3	2.5	2.8	5.1
6-Feb	1.2	1.3	1.5	Z	2.2	1.2	1.0	1.1	0.7	0.8	0.5	0.6	0.5	0.6	0.4	0.3	0.3	2.1	4.2	2.3	1.9	3.3	2.7	1.9	1.4	4.2
7-Feb	2.2	1.9	1.4	1.9	Z	3.1	2.9	4.8	5.0	2.3	2.2	2.9	2.7	3.1	3.3	3.3	4.5	11.2	11.6	9.6	7.7	6.0	4.8	4.2	4.5	11.6
8-Feb	3.8	3.1	2.3	2.0	1.9	Z	1.3	1.3	5.4	3.2	1.8	1.8	1.6	2.6	3.7	4.0	3.8	4.6	5.5	4.9	4.4	7.0	9.8	8.2	3.8	9.8
9-Feb	Z	7.0	6.8	7.4	8.1	8.2	8.5	6.5	6.7	5.7	5.7	5.7	5.4	5.0	3.7	3.1	2.4	2.1	1.6	1.3	1.0	0.8	0.7	0.8	4.5	8.5
10-Feb	0.7	Z	0.7	0.7	0.6	0.6	0.7	0.7	0.7	3.9	1.5	1.0	1.6	1.7	6.7	4.6	7.3	3.4	3.2	4.4	4.8	5.0	4.9	4.8	2.8	7.3
11-Feb	4.3	4.1	Z	3.5	3.3	3.3	2.7	2.6	3.7	3.2	3.0	1.8	1.4	1.0	1.0	0.9	1.2	2.3	2.8	1.4	1.2	1.1	0.9	0.7	2.2	4.3
12-Feb	0.8	0.8	1.0	Z	0.9	0.8	0.9	2.9	1.6	2.1	1.6	1.0	1.1	1.0	0.7	1.7	1.7	1.3	1.2	1.2	2.3	3.3	4.2	3.6	1.6	4.2
13-Feb	2.6	1.5	1.1	0.7	Z	0.8	0.9	0.8	1.0	1.0	0.8	0.6	0.5	0.5	0.5	0.5	0.5	1.0	1.5	1.4	1.4	0.8	1.7	1.5	1.0	2.6
14-Feb	1.2	1.0	1.2	1.0	0.9	Z	1.4	1.8	1.1	1.0	1.3	1.5	1.6	1.4	1.0	0.8	0.7	1.3	2.7	1.0	1.1	1.3	1.1	1.1	1.2	2.7
15-Feb	Z	1.3	1.8	1.4	1.0	1.1	1.0	6.7	13.0	4.5	4.8	6.9	5.7	4.0	4.2	5.6	5.5	4.6	5.9	4.4	6.5	7.8	7.4	6.2	4.8	13.0
16-Feb	5.7	Z	4.0	3.0	3.8	2.7	3.8	8.1	10.4	6.7	1.9	1.2	0.9	0.4	0.3	0.5	0.5	0.5	0.5	0.6	0.7	0.5	0.5	0.4	2.5	10.4
17-Feb	0.3	0.3	Z	0.4	0.3	0.3	0.3	0.5	0.4	0.6	0.6	0.4	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6
18-Feb	0.2	0.2	0.4	Z	1.2	1.4	1.2	1.4	1.5	1.7	1.7	1.8	1.5	1.6	1.9	2.1	2.0	1.9	2.4	3.7	4.3	8.1	4.8	7.6	2.4	8.1
19-Feb	3.2	3.2	3.7	3.7	Z	4.2	3.5	3.4	3.4	4.3	1.8	1.9	1.0	1.3	1.0	1.1	1.0	2.0	2.7	2.1	2.2	2.1	1.7	1.9	2.4	4.3
20-Feb	2.1	3.2	3.6	4.7	3.4	Z	5.9	4.7	5.8	5.1	6.1	7.3	8.5	7.3	7.2	6.1	5.9	10.6	7.9	7.0	7.4	4.2	3.7	7.5	5.9	10.6
21-Feb	Z	12.8	11.3	9.0	7.9	7.0	5.8	6.7	7.0	6.0	3.6	3.4	2.0	1.0	0.9	1.2	1.2	1.4	1.2	1.4	1.7	1.4	0.9	0.5	4.1	12.8
22-Feb	0.4	Z	1.0	0.6	0.5	0.4	0.4	0.7	1.1	2.5	0.6	0.8	0.6	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.3	0.7	0.4	0.4	0.6	2.5
23-Feb	0.3	0.3	Z	0.3	0.2	0.2	0.5	3.4	3.3	1.2	1.3	1.4	1.4	0.8	1.1	1.1	1.5	1.7	2.7	2.9	5.3	7.4	5.0	3.6	2.0	7.4
24-Feb	3.1	2.4	1.6	Z	1.8	1.6	1.8	2.8	2.7	2.7	2.7	2.6	1.7	2.1	1.6	1.6	2.3	2.4	2.7	4.4	3.1	6.4	4.2	3.7	2.7	6.4
25-Feb	2.5	1.3	1.5	1.0	Z	1.2	1.0	1.2	5.8	2.2	4.1	2.6	2.4	1.8	2.0	16.9	2.9	3.3	3.5	5.1	3.0	2.4	2.2	1.6	3.1	16.9
26-Feb	1.3	1.2	1.2	1.2	1.3	Z	1.3	1.1	1.2	1.0	1.1	1.2	1.0	1.0	1.9	5.9	5.4	6.3	5.4	3.5	1.9	1.7	2.1	2.4	2.2	6.3
27-Feb	Z	2.2	2.3	1.5	1.8	1.9	1.4	1.9	2.6	2.8	4.5	C	C	C	C	C	3.8	5.2	6.3	7.7	7.2	6.8	6.7	6.4	4.1	7.7
28-Feb	6.0	Z	5.3	5.1	4.7	5.0	5.5	5.4	6.8	4.3	3.2	2.9	1.9	1.6	1.5	1.4	1.5	1.7	2.3	1.6	1.9	1.8	2.5	2.6	3.3	6.8
	2.1	2.5	2.7	2.7	2.6	2.6	2.4	3.1	4.0	3.0	2.6	2.5	2.2	2.0	2.1	2.8	2.4	3.1	3.3	3.1	3.0	3.3	3.0	2.9	Diurnal Average	
	6.0	12.8	11.3	9.0	8.1	9.8	8.5	9.9	13.0	6.7	6.1	7.3	8.5	7.3	7.2	16.9	7.3	11.2	11.6	9.6	7.7	8.1	9.8	8.2	Diurnal Maximum	

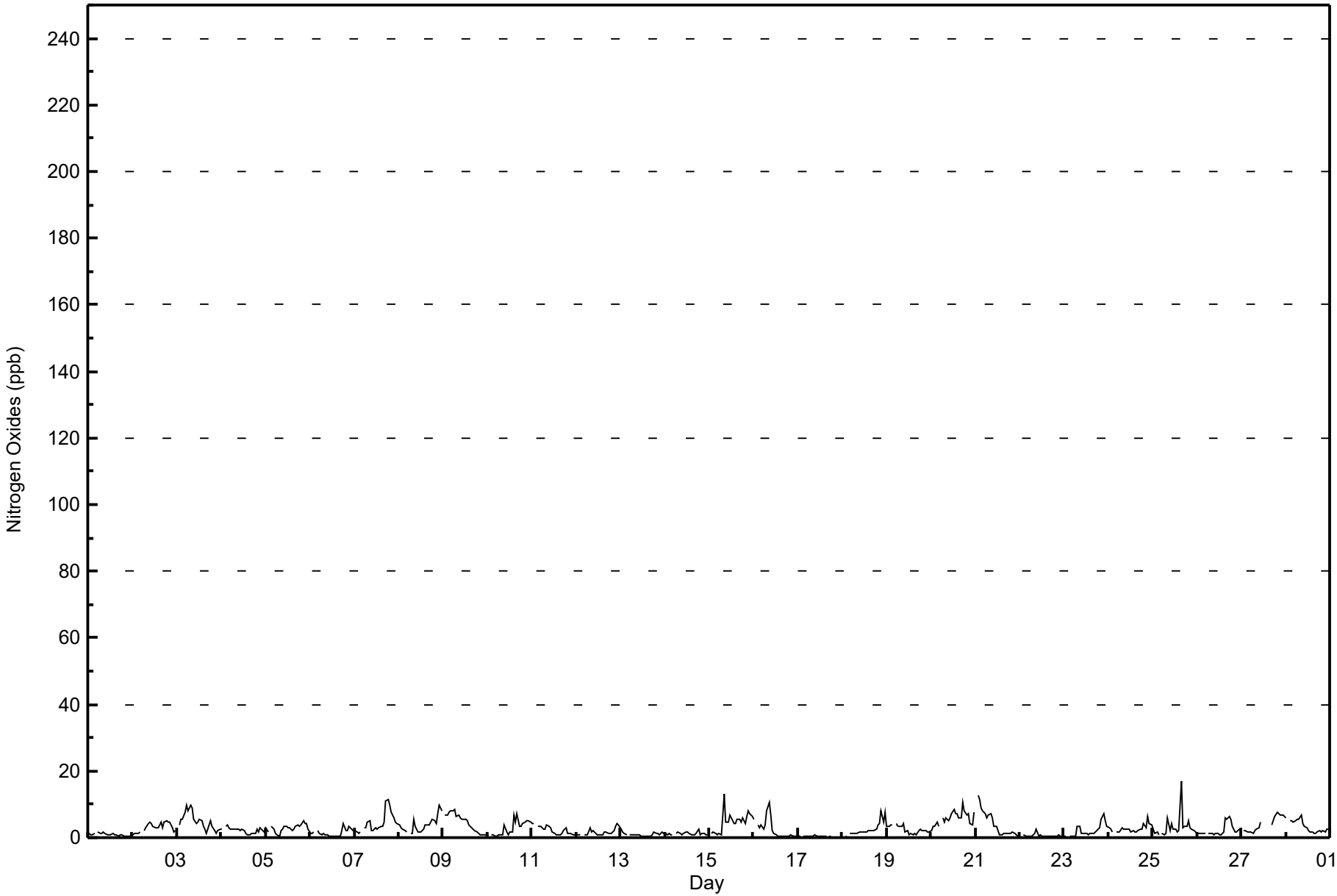
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Janvier - February 2026



Nitrogen Oxides (NO_X) - ppb

Janvier - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	639	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Janvier - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	50	167	51	15	24	4	10	14	11	58	134	33	18	14	9	9	621
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	50	167	51	15	24	4	10	14	11	58	134	33	18	14	9	9	621

Total Number of Valid Hours: 621

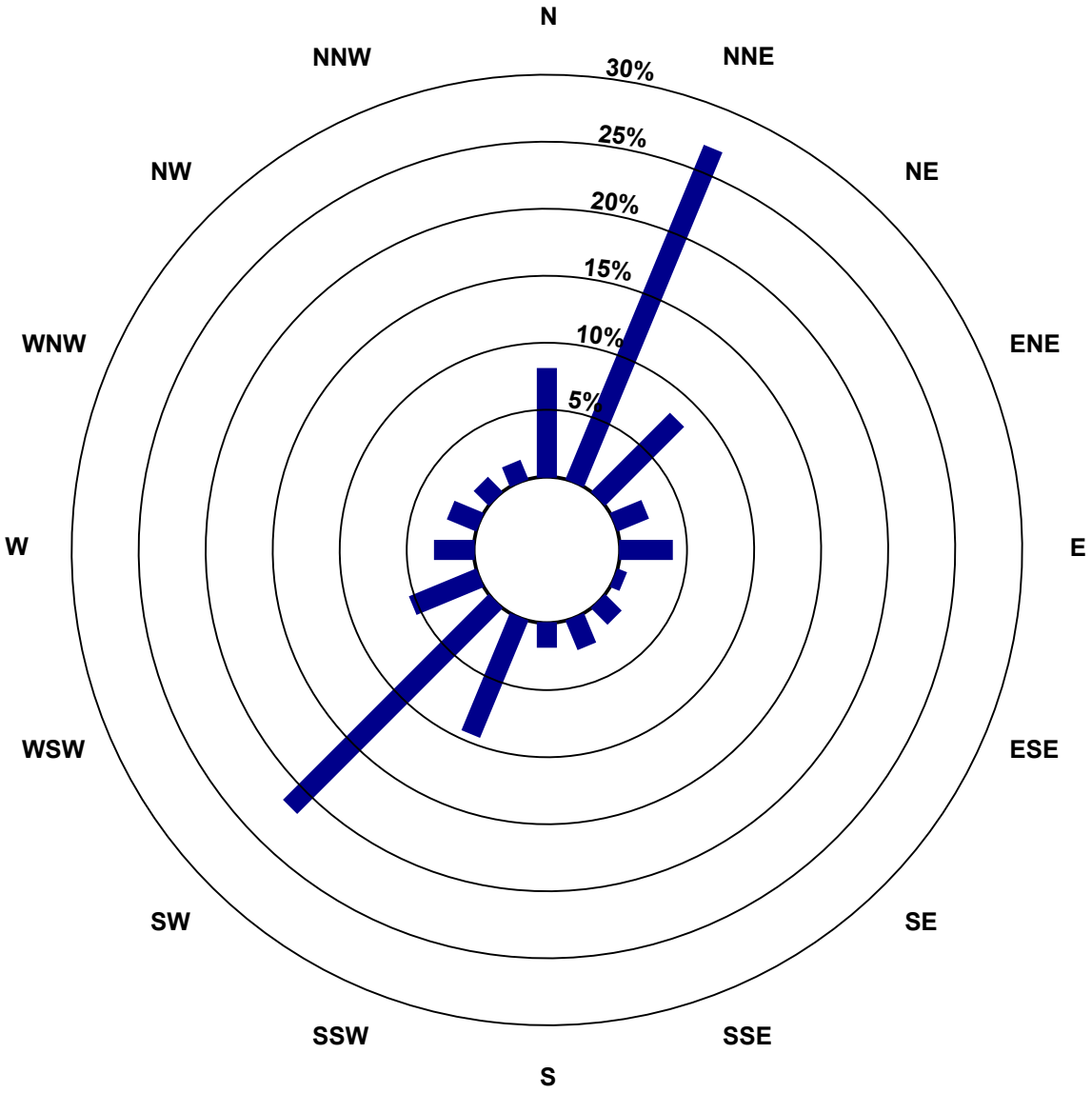
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Janvier



Classes (ppb)

- 0 - 20
- 21 - 40
- 11 - 80
- 81 - 159
- > 159

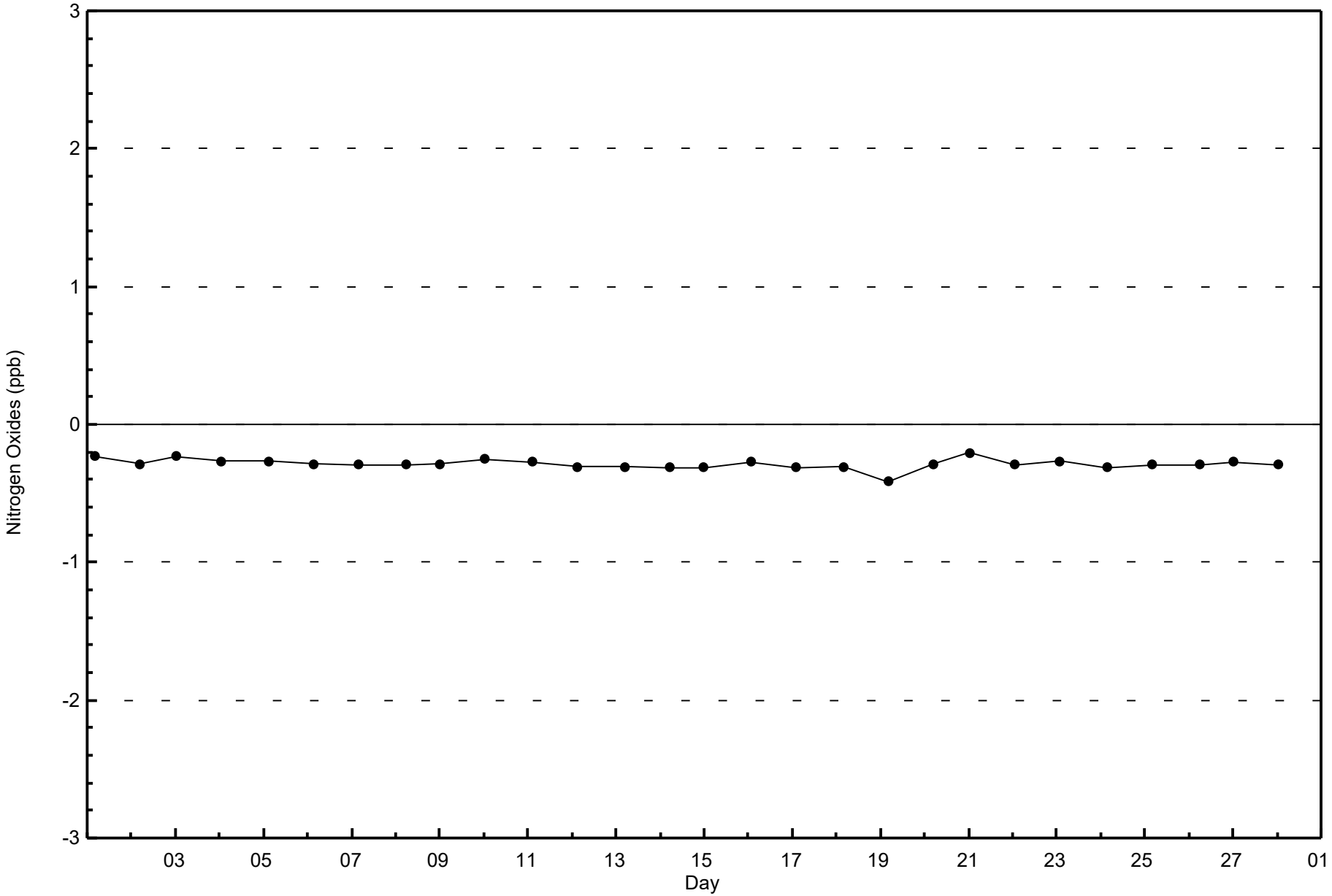
Total Number of Valid Hours: 621

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Janvier - February 2026

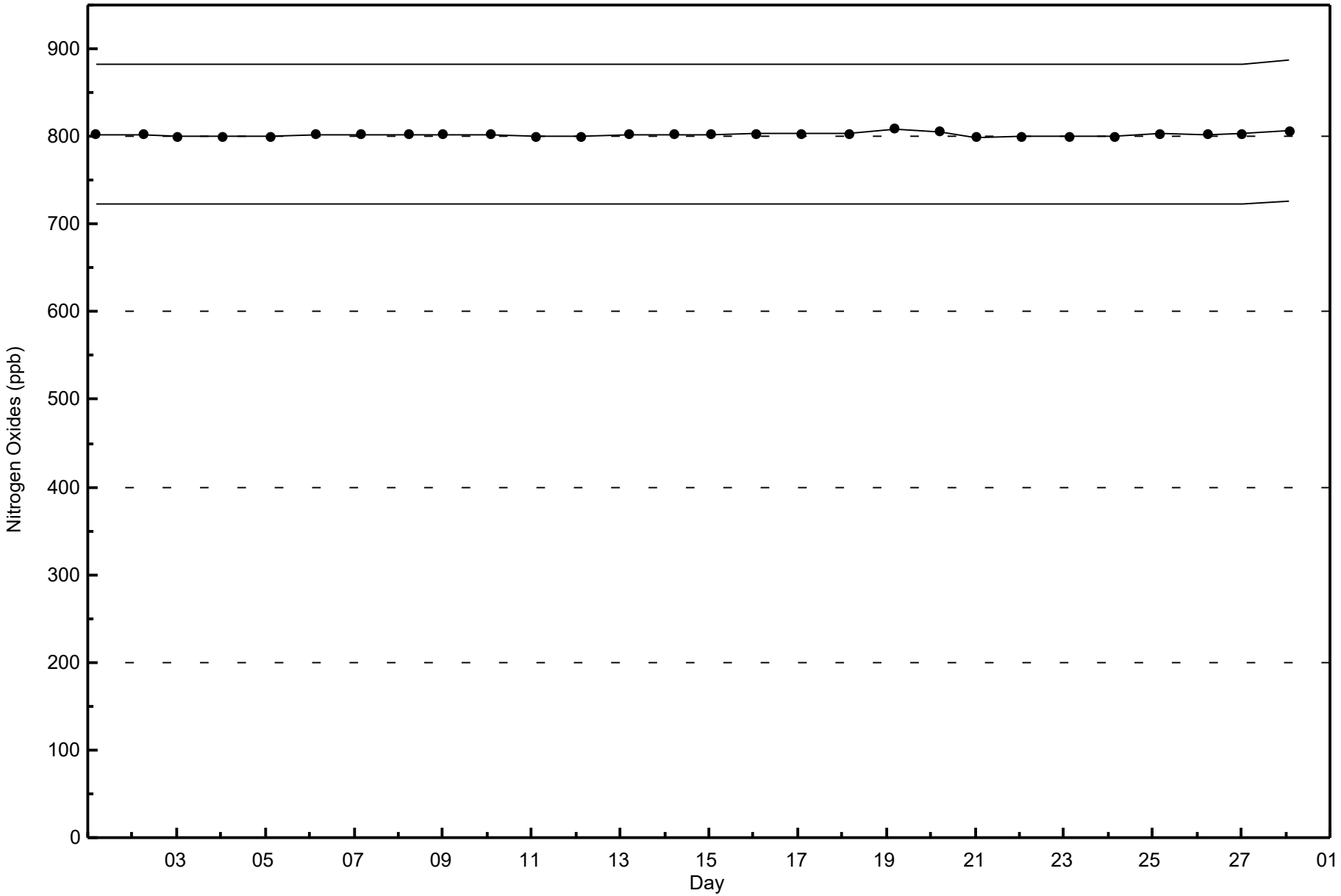


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Janvier - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ozone (O_3) - ppb

Janvier - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 47.6 ppb on Feb 13 16:00 Maximum Daily Average: 44.6 ppb on Feb 13

Minimum Value: 2.7 ppb on Feb 19 00:00 Minimum Daily Average: 11.3 ppb on Feb 18
Maximum Diurnal Average: 30.8 ppb at hour 15 Minimum Diurnal Average: 24.4 ppb at hour 9
Monthly Average: 27.68 ppb Percentiles: P_1 = 5.8 P_{10} = 16.1 Q_1 = 21.4 Median = 28.0 Q_3 = 33.3 P_{90} = 40.2 P_{99} = 45.5

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	31
Percent Operational Time:	99.7

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	35.7	36.8	Z	34.9	34.8	34.1	33.9	33.3	32.4	32.6	31.7	31.5	32.4	33.3	33.7	33.0	33.6	34.1	33.9	34.2	34.2	33.9	33.8	33.7	33.7	36.8
2-Feb	33.0	32.0	31.7	Z	30.3	30.9	30.9	29.5	28.5	27.5	27.1	26.9	26.1	25.3	24.3	22.3	21.9	20.2	20.3	20.4	18.0	20.7	23.3	21.2	25.8	33.0
3-Feb	18.0	16.8	15.5	14.5	Z	10.5	12.6	11.7	12.2	20.0	22.9	21.3	19.5	20.0	22.7	23.8	26.8	24.8	22.9	24.9	25.9	27.1	26.2	25.2	20.2	27.1
4-Feb	25.5	25.9	26.1	26.6	28.1	Z	28.1	28.9	28.8	28.5	29.5	30.5	34.0	36.4	37.6	38.0	37.2	36.3	35.4	31.2	32.2	29.9	29.3	28.5	31.0	38.0
5-Feb	Z	21.9	19.8	17.8	17.9	22.3	23.3	25.0	24.4	25.5	26.4	28.0	29.2	30.3	30.6	30.6	29.4	28.2	28.5	28.3	26.5	27.1	27.0	29.5	26.0	30.6
6-Feb	31.8	Z	29.8	28.1	26.1	26.9	26.3	26.2	26.7	26.8	26.9	26.4	26.7	26.6	27.2	27.2	26.5	24.7	23.0	22.6	20.5	18.9	19.9	18.9	25.4	31.8
7-Feb	17.0	16.8	Z	17.5	14.7	15.3	12.8	11.4	9.6	12.0	17.1	19.2	19.8	21.0	21.4	21.0	18.5	10.6	9.2	10.8	12.0	13.6	15.1	15.7	15.3	21.4
8-Feb	15.8	16.1	17.2	Z	17.7	18.3	18.7	18.8	16.1	16.6	17.0	15.6	16.1	16.0	17.1	17.6	17.4	16.7	16.0	16.4	16.6	14.5	14.5	16.5	16.7	18.8
9-Feb	18.7	18.0	18.4	16.7	Z	13.4	12.7	16.8	15.3	18.9	19.5	19.5	20.1	20.4	22.1	22.9	23.3	24.0	24.7	25.9	27.1	27.6	27.7	27.3	20.9	27.7
10-Feb	27.0	27.2	27.0	26.4	25.7	Z	24.4	23.4	22.0	21.0	22.8	22.5	21.1	20.3	17.7	17.7	15.0	14.5	12.9	13.3	16.5	20.0	21.7	21.9	20.9	27.2
11-Feb	Z	26.0	27.2	28.1	28.1	28.6	29.5	29.8	30.0	30.8	31.8	33.9	36.4	39.4	40.5	40.7	40.4	38.0	37.5	40.0	40.0	39.9	40.7	41.0	34.7	41.0
12-Feb	40.5	Z	40.3	41.1	42.1	42.6	42.3	40.0	39.7	39.1	40.0	41.1	41.9	42.8	43.3	42.5	41.6	41.9	44.1	44.8	43.4	41.3	39.7	40.2	41.6	44.8
13-Feb	41.4	43.3	Z	45.0	44.8	44.7	44.2	44.1	44.0	43.9	44.9	45.7	46.3	47.0	47.5	47.6	47.3	45.9	44.5	43.6	42.5	42.8	41.8	42.0	44.6	47.6
14-Feb	42.3	42.0	41.7	Z	41.5	41.0	39.3	37.9	39.9	40.6	40.3	41.7	42.9	43.3	44.3	45.2	45.1	43.9	41.4	43.0	42.5	41.3	39.2	39.1	41.7	45.2
15-Feb	38.8	39.4	38.6	38.8	Z	38.1	37.2	29.1	20.6	28.8	28.8	24.6	23.8	25.5	25.9	24.7	25.0	27.8	26.9	27.4	24.3	21.2	21.1	21.2	28.6	39.4
16-Feb	21.1	21.7	21.6	22.8	20.3	Z	17.7	15.7	14.8	18.2	23.0	23.5	23.6	23.7	23.2	23.3	23.7	23.2	23.3	22.6	21.0	19.8	18.4	16.8	21.0	23.7
17-Feb	Z	17.8	18.0	18.4	19.3	19.1	19.0	19.2	19.8	21.1	23.6	25.6	25.5	25.4	26.5	26.3	27.3	28.3	29.3	28.0	26.8	26.7	27.8	28.0	23.8	29.3
18-Feb	27.7	Z	23.0	19.8	14.2	11.6	10.6	8.8	7.8	7.8	9.6	11.7	12.6	13.6	14.0	14.2	12.4	10.1	8.4	6.9	5.7	3.8	3.9	2.7	11.3	27.7
19-Feb	3.9	3.8	Z	4.8	5.8	7.3	8.3	9.2	10.5	12.2	15.8	18.3	21.0	25.9	29.8	31.2	33.3	34.3	33.6	33.7	33.9	33.7	34.0	33.6	20.8	34.3
20-Feb	33.2	32.0	31.0	Z	28.6	26.8	26.2	28.0	27.9	28.9	28.7	27.8	27.4	29.6	31.0	33.1	33.2	30.4	31.0	32.3	31.3	35.3	34.6	28.4	30.3	35.3
21-Feb	23.7	22.6	23.6	24.5	Z	23.6	23.7	21.6	21.6	25.5	31.2	35.3	39.7	40.6	40.0	39.1	38.1	36.3	36.3	35.2	33.6	32.2	31.7	31.6	30.9	40.6
22-Feb	31.3	30.3	29.9	29.7	29.4	Z	29.1	28.8	28.4	31.3	33.7	34.8	35.3	35.7	35.8	35.9	36.0	36.2	35.6	34.1	33.5	32.9	33.0	32.5	32.8	36.2
23-Feb	Z	29.8	28.8	28.4	28.0	27.7	27.5	25.3	25.3	27.6	31.3	36.4	37.4	38.4	38.0	37.3	37.2	35.4	33.6	32.5	29.3	26.8	27.3	28.7	31.2	38.4
24-Feb	30.4	Z	31.4	29.9	29.0	28.2	27.4	25.5	C	C	C	26.1	31.0	32.8	34.4	35.2	34.8	34.5	33.3	32.2	32.2	26.6	26.1	26.1	30.3	35.2
25-Feb	27.2	29.5	Z	28.8	29.1	28.7	28.4	28.6	26.9	30.2	30.9	32.0	33.3	36.2	38.2	38.9	36.6	33.8	32.2	29.1	30.3	29.4	29.4	29.0	31.2	38.9
26-Feb	28.8	29.8	30.0	Z	30.0	29.7	30.3	30.3	30.1	30.7	31.9	32.1	32.6	32.5	31.9	27.4	27.0	25.7	26.8	28.0	29.1	28.7	27.9	26.6	29.5	32.6
27-Feb	26.1	25.9	25.6	27.1	Z	29.6	31.7	31.0	30.9	32.2	31.7	31.7	32.0	M	M	30.4	29.8	26.5	24.7	22.7	21.8	21.5	20.2	19.7	27.3	32.2
28-Feb	19.6	20.8	19.9	19.9	19.7	Z	20.8	21.2	23.4	27.4	29.3	30.1	32.6	32.6	32.1	32.5	32.4	31.5	31.1	32.7	32.7	33.2	32.8	32.2	27.9	33.2
	27.4	26.1	26.8	25.6	26.3	26.0	25.6	25.0	24.4	26.1	27.7	28.4	29.3	30.2	30.8	30.7	30.4	29.2	28.6	28.4	28.0	27.5	27.4	27.1	Diurnal Average	
	42.3	43.3	41.7	45.0	44.8	44.7	44.2	44.1	44.0	43.9	44.9	45.7	46.3	47.0	47.5	47.6	47.3	45.9	44.5	44.8	43.4	42.8	41.8	42.0	Diurnal Maximum	

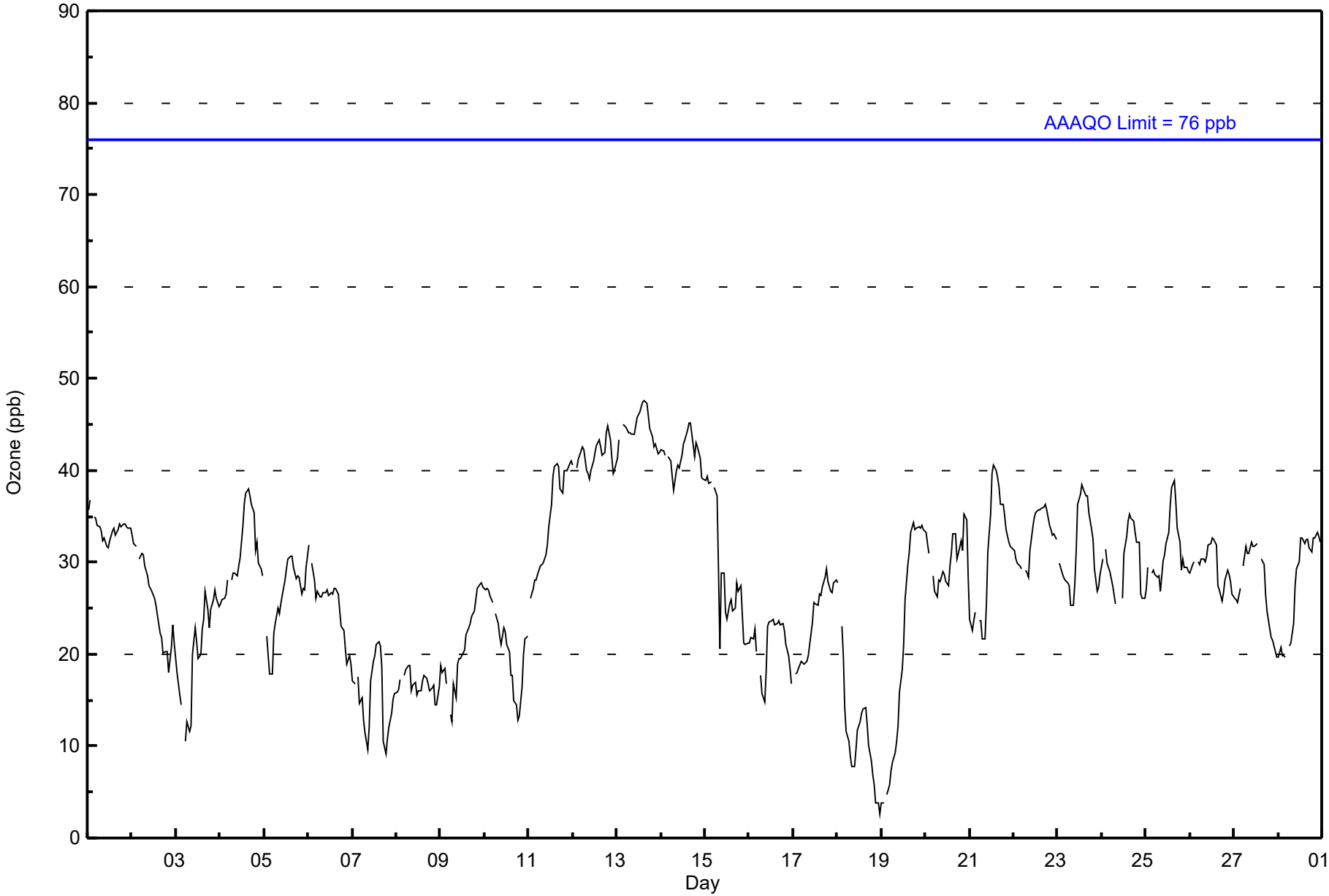
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 76 ppb

Wood Buffalo Environmental Association

Hourly Averages

Ozone (O_3) - ppb

Janvier - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Ozone (O_3) - ppb

Janvier - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	140	21.91	21.91
21 - 50	499	78.09	100.00
51 - 82	0	0.00	100.00
> 83	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Ozone (O_3) - ppb

Janvier - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	21	48	11	1	3	0	0	1	1	13	14	3	2	7	4	3	132
21 - 50	29	126	39	13	22	4	10	13	9	46	115	30	17	6	5	6	490
51 - 82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	50	174	50	14	25	4	10	14	10	59	129	33	19	13	9	9	622

Total Number of Valid Hours: 622

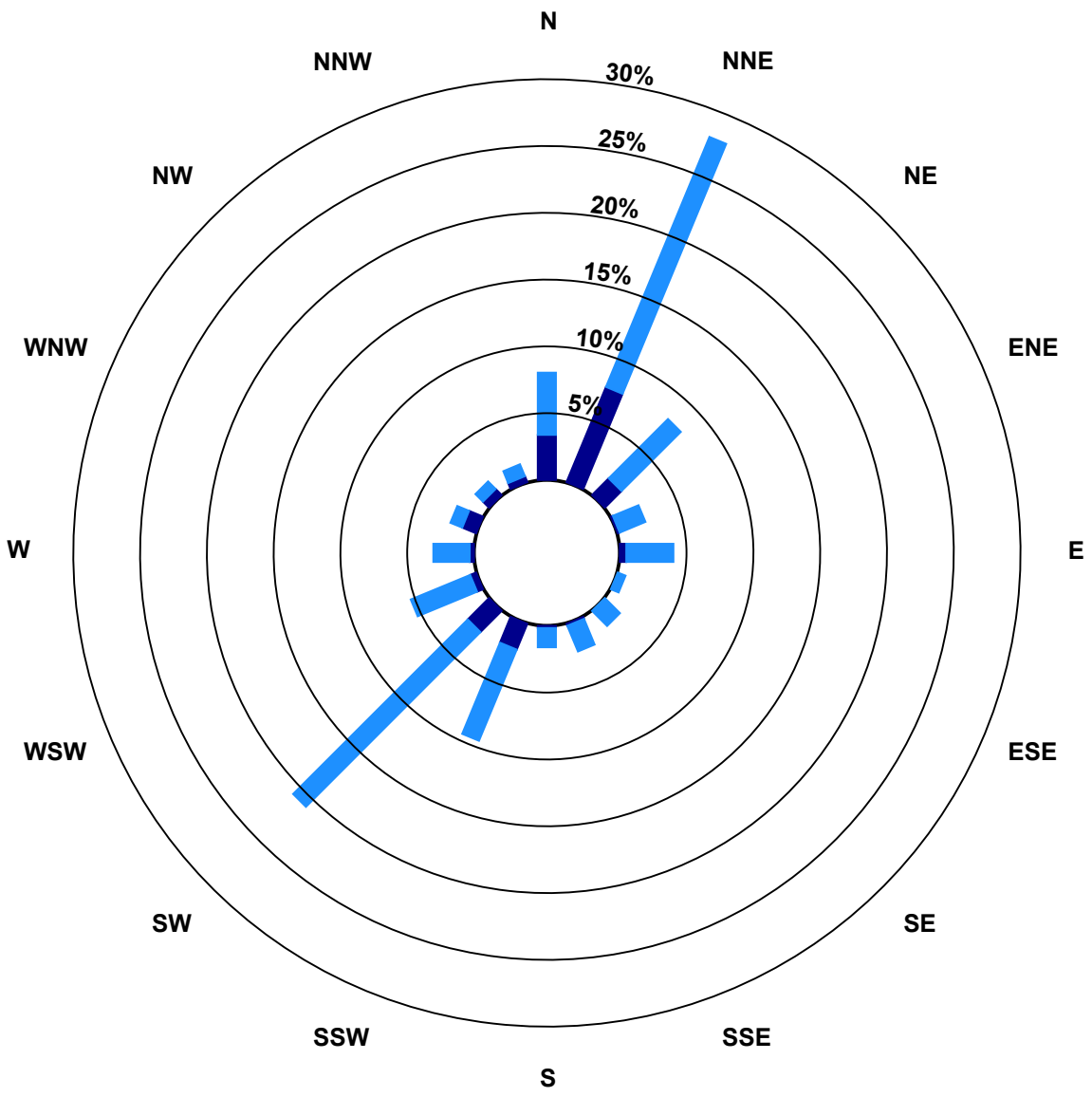
Total Number of Hours: 672

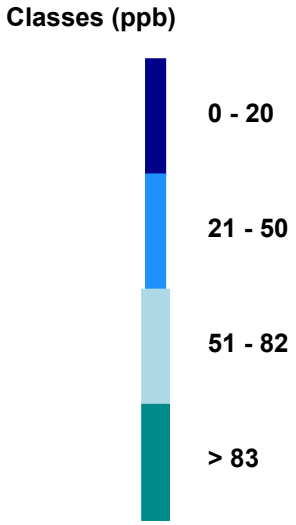
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Ozone (O_3) - ppb

Janvier





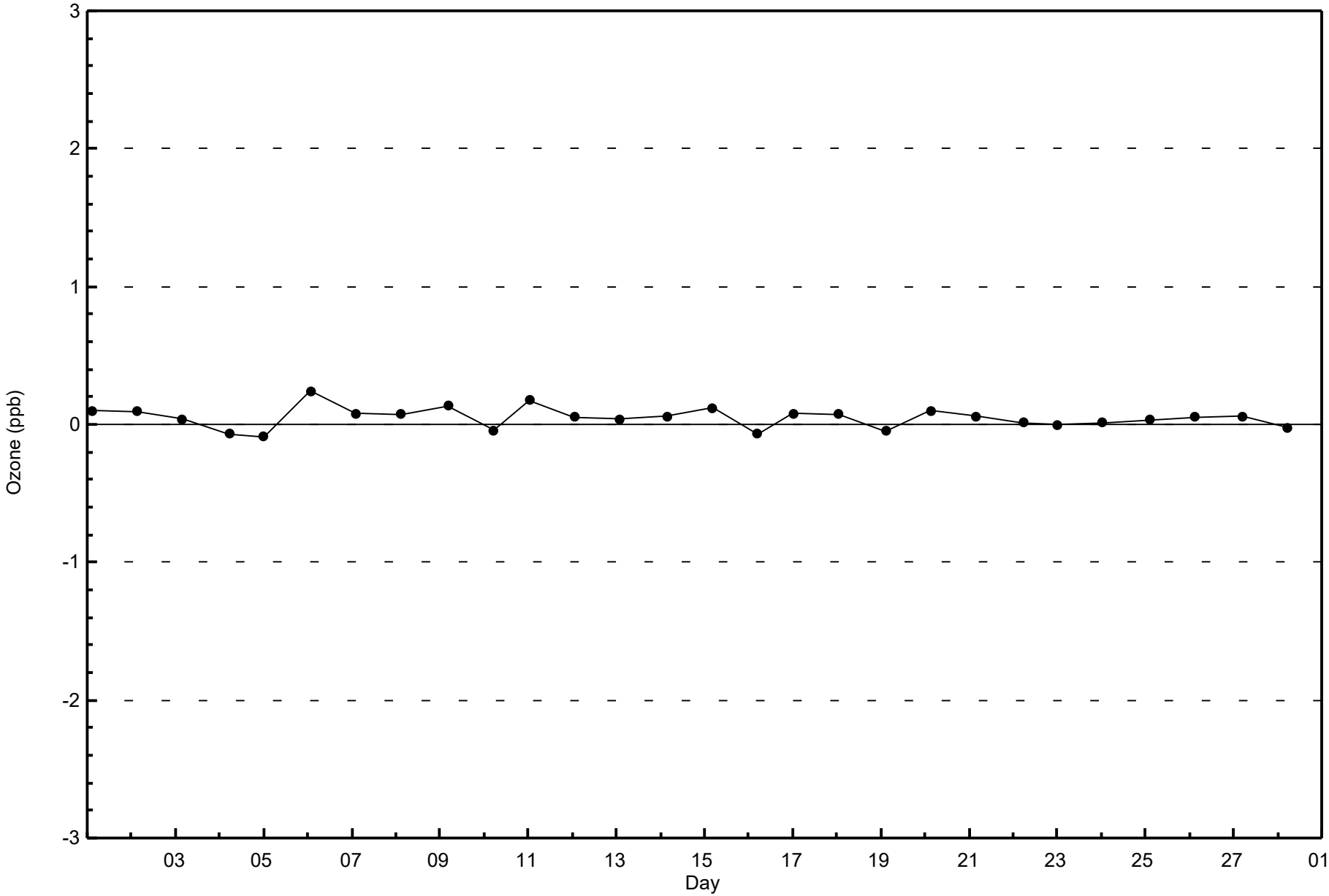
Total Number of Valid Hours: 622

Wood Buffalo Environmental Association

Zero Responses

Ozone (O_3) - ppb

Janvier - February 2026

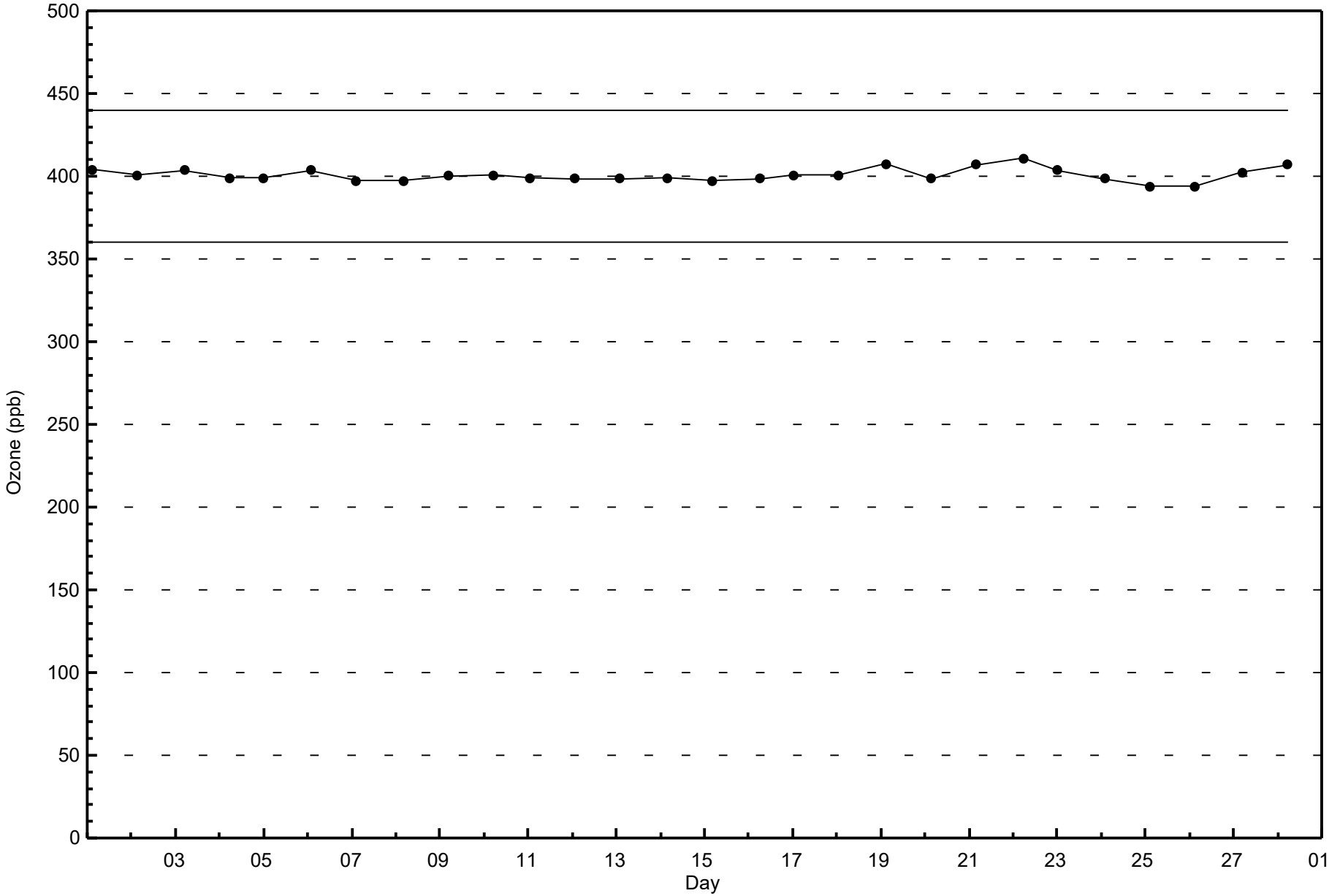


Wood Buffalo Environmental Association

Span Responses

Ozone (O_3) - ppb

Janvier - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Janvier - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 15.7 $\mu g/m^3$ on Feb 8 00:00

Maximum Daily Average: 8.9 $\mu g/m^3$ on Feb 8

Minimum Value: 0.3 $\mu g/m^3$ on Feb 12 17:00

Minimum Daily Average: 1.5 $\mu g/m^3$ on Feb 12

Maximum Diurnal Average: 3.9 $\mu g/m^3$ at hour 4

Minimum Diurnal Average: 3.1 $\mu g/m^3$ at hour 19

Monthly Average: 3.41 $\mu g/m^3$

Percentiles: P_1 = 0.6 P_{10} = 1.4 Q_1 = 1.9 Median = 2.7 Q_3 = 4.3 P_{90} = 6.3 P_{99} = 12.3

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	1
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.2	2.6	2.5	2.6	2.7	2.8	3.0	2.8	2.7	2.8	2.7	2.5	2.0	1.8	1.6	1.5	1.4	1.1	1.3	1.3	1.2	1.3	1.3	1.6	2.0	3.0
2-Feb	2.0	2.5	2.8	2.9	3.2	3.0	2.8	3.0	3.2	3.4	3.5	4.2	6.0	7.4	7.5	7.7	7.6	7.2	6.7	6.8	7.2	6.2	5.0	4.6	4.9	7.7
3-Feb	5.2	8.8	13.8	12.6	10.5	7.7	8.8	9.8	8.9	8.7	7.8	9.1	9.4	8.4	6.3	5.3	5.2	6.2	5.7	5.1	4.4	3.6	3.9	4.7	7.5	13.8
4-Feb	5.2	5.1	4.9	4.4	4.7	4.9	5.2	5.1	5.1	4.5	3.4	2.6	1.5	0.9	2.3	2.1	0.6	0.5	0.5	8.2	3.7	5.3	13.2	4.9	4.1	13.2
5-Feb	2.4	4.8	3.0	3.0	3.5	2.9	2.4	1.4	2.8	1.4	1.6	2.2	2.3	2.0	2.0	2.0	2.4	2.1	1.9	2.1	2.5	2.4	2.4	2.5	2.4	4.8
6-Feb	2.4	2.8	2.8	3.1	3.2	3.2	2.8	2.9	2.7	3.0	3.1	3.2	3.1	3.2	3.1	3.0	2.9	2.9	3.2	3.0	2.9	3.3	3.0	3.0	3.0	3.3
7-Feb	3.0	3.0	3.3	3.8	3.6	3.3	3.5	3.5	4.0	5.5	6.9	6.6	6.6	5.9	5.4	5.4	6.1	6.7	7.5	8.3	10.0	11.5	13.6	15.7	6.4	15.7
8-Feb	13.9	11.6	10.5	10.3	10.2	8.6	7.4	7.3	7.5	8.0	8.0	9.0	8.6	7.4	9.4	12.3	12.1	10.7	6.9	7.1	7.2	8.0	6.3	4.9	8.9	13.9
9-Feb	4.6	4.3	4.6	4.6	4.7	4.7	4.6	4.3	4.3	4.2	4.4	4.5	4.7	5.2	5.9	6.4	6.0	5.8	6.0	5.4	5.0	4.8	5.3	5.7	5.0	6.4
10-Feb	5.8	5.8	6.4	7.3	8.7	8.4	6.9	5.8	5.3	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.5	5.5	5.3	4.8	4.6	5.8	3.8	3.5	5.7	8.7
11-Feb	3.7	3.8	3.6	3.7	3.7	3.6	3.3	3.0	2.9	2.7	2.5	2.1	1.8	1.6	1.6	1.5	1.1	1.0	0.9	0.9	0.7	0.9	2.0	1.1	2.2	3.8
12-Feb	1.1	1.1	2.7	2.9	2.0	1.2	1.2	1.4	1.2	1.1	1.1	0.9	0.8	0.5	0.4	0.4	0.3	0.4	0.6	1.3	2.4	3.8	4.2	3.4	1.5	4.2
13-Feb	2.9	2.2	1.9	2.3	2.6	2.2	2.2	2.0	2.4	2.2	2.4	2.5	2.3	1.8	1.6	1.6	1.7	2.3	2.2	2.0	2.2	2.1	2.2	1.8	2.1	2.9
14-Feb	1.7	1.9	1.8	1.6	1.6	1.7	1.8	2.5	1.7	1.6	2.0	2.4	2.7	2.5	2.3	1.9	1.6	2.1	3.1	2.6	2.7	3.0	2.8	2.7	2.2	3.1
15-Feb	2.6	2.5	2.6	2.6	3.3	3.3	2.7	3.7	3.4	2.7	2.7	3.2	3.4	3.3	3.3	3.6	3.5	3.2	3.3	3.0	3.2	4.1	5.5	5.3	3.3	5.5
16-Feb	6.2	4.2	3.0	2.2	2.4	2.0	2.4	9.9	5.9	2.9	2.0	1.7	1.7	1.6	1.6	1.7	1.8	1.6	1.4	1.5	1.7	1.7	1.9	2.0	2.7	9.9
17-Feb	2.0	1.9	2.0	2.1	2.3	2.1	2.0	2.0	2.1	2.1	1.9	1.9	2.0	2.1	2.2	2.2	2.2	2.2	2.0	2.2	2.0	1.7	1.5	1.4	2.0	2.3
18-Feb	1.6	1.7	1.6	1.7	1.7	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.7	1.8	1.9	2.5	2.8	3.1	2.7	3.9	1.9	3.9
19-Feb	2.1	2.6	2.5	2.5	2.5	1.7	1.5	1.5	1.4	1.3	1.4	2.4	2.7	2.2	1.5	1.3	1.2	1.1	1.0	1.2	1.2	1.3	1.5	2.0	1.7	2.7
20-Feb	2.4	3.1	3.7	4.1	3.9	4.1	4.3	4.4	4.4	4.9	5.7	7.1	7.9	6.0	5.6	4.9	4.8	4.3	4.4	4.5	4.3	3.6	3.1	3.3	4.5	7.9
21-Feb	3.8	3.7	3.2	2.8	2.6	2.4	2.3	2.4	2.4	2.2	2.1	2.2	1.4	1.0	1.3	1.6	1.7	2.1	2.2	2.3	2.4	2.5	2.5	2.1	2.3	3.8
22-Feb	2.2	1.9	2.0	1.9	2.0	2.0	1.9	1.8	1.9	1.8	1.5	1.4	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.3	1.3	1.4	1.4	1.4	1.6	2.2
23-Feb	1.5	1.4	1.4	1.4	1.4	1.4	1.4	2.1	1.5	1.4	1.3	1.7	1.9	1.6	1.8	1.7	1.6	1.4	1.9	2.2	2.3	3.0	2.5	2.1	1.7	3.0
24-Feb	1.8	2.2	2.2	2.4	2.6	2.6	2.8	3.3	C	2.9	3.0	2.9	3.0	2.5	2.2	2.3	2.1	2.3	2.0	2.2	1.8	3.1	3.9	3.9	2.6	3.9
25-Feb	3.4	2.2	3.4	2.4	2.9	2.8	2.7	2.7	2.8	3.1	3.4	4.2	4.4	3.9	2.7	2.3	3.6	4.3	4.4	4.4	4.0	3.9	4.3	4.1	3.4	4.4
26-Feb	3.9	4.0	4.0	4.4	4.7	5.5	5.4	4.3	4.0	3.8	3.9	3.8	3.8	4.1	4.0	3.5	2.9	3.0	2.9	2.4	1.8	1.6	1.6	1.7	3.6	5.5
27-Feb	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.8	1.8	1.6	1.7	1.8	1.7	1.8	1.9	1.9	1.8	2.6	3.6	4.3	2.8	2.6	2.9	2.4	2.1	4.3
28-Feb	2.6	2.1	2.0	12.4	2.8	2.0	8.6	7.6	2.5	2.5	2.4	2.3	2.5	2.6	3.4	4.2	4.1	3.3	3.3	4.6	4.8	4.8	4.8	5.0	4.1	12.4
	3.3	3.4	3.6	3.9	3.6	3.3	3.5	3.7	3.3	3.2	3.2	3.4	3.4	3.2	3.2	3.2	3.2	3.2	3.1	3.5	3.3	3.6	3.9	3.6	Diurnal Average	
	13.9	11.6	13.8	12.6	10.5	8.6	8.8	9.9	8.9	8.7	8.0	9.1	9.4	8.4	9.4	12.3	12.1	10.7	7.5	8.3	10.0	11.5	13.6	15.7	Diurnal Maximum	

C - Calibration

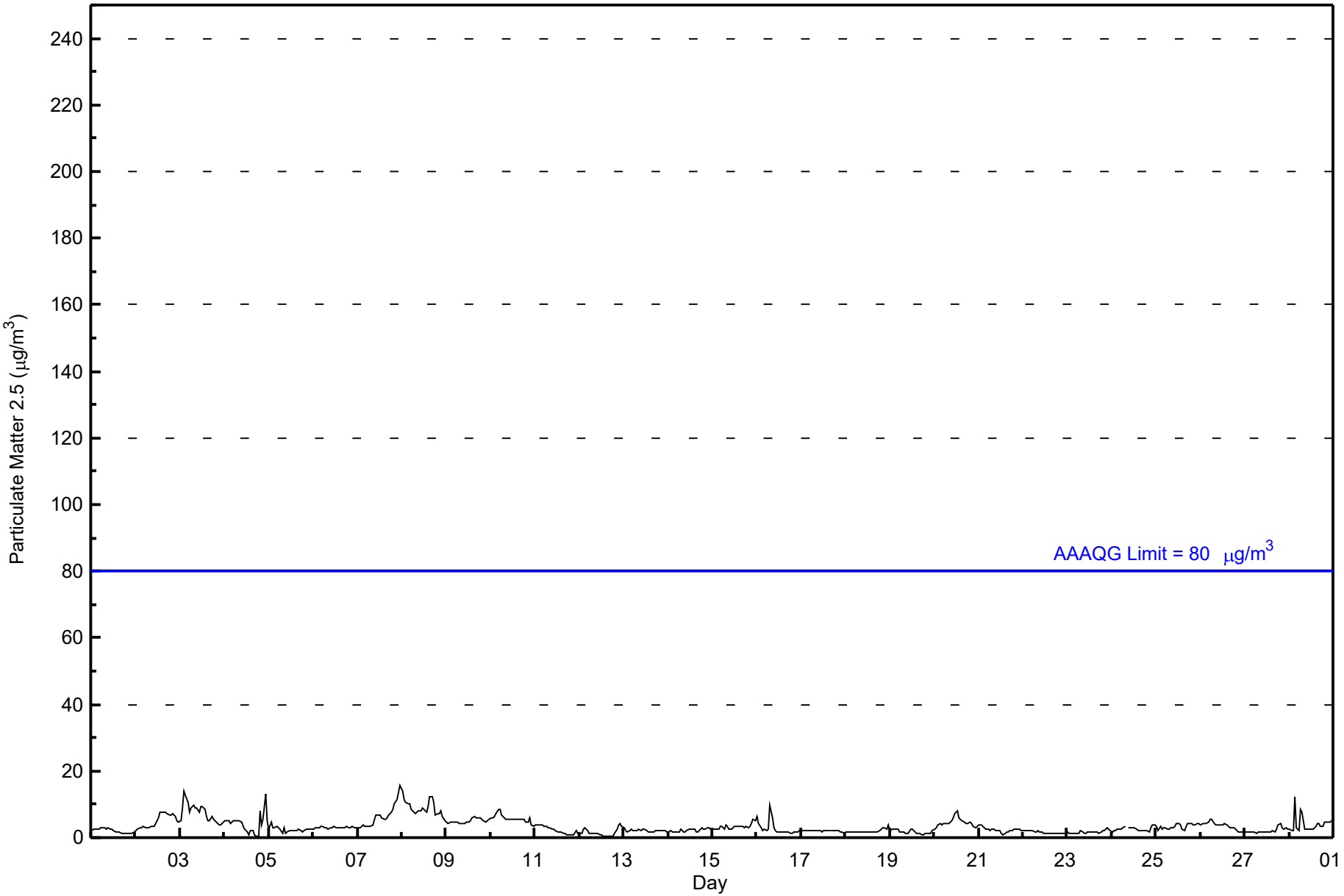
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Janvier - February 2026





Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Janvier - February 2026

Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	577	85.99	85.99
6 - 15	93	13.86	99.85
16 - 25	1	0.15	100.00
26 - 80	0	0.00	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 671

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Janvier - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	43	147	49	15	25	4	10	14	9	51	126	33	18	10	4	9	567
6 - 15	9	32	6	1	0	0	0	1	2	10	13	1	1	4	5	0	85
16 - 25	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
26 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	52	180	55	16	25	4	10	15	11	61	139	34	19	14	9	9	653

Total Number of Valid Hours: 653

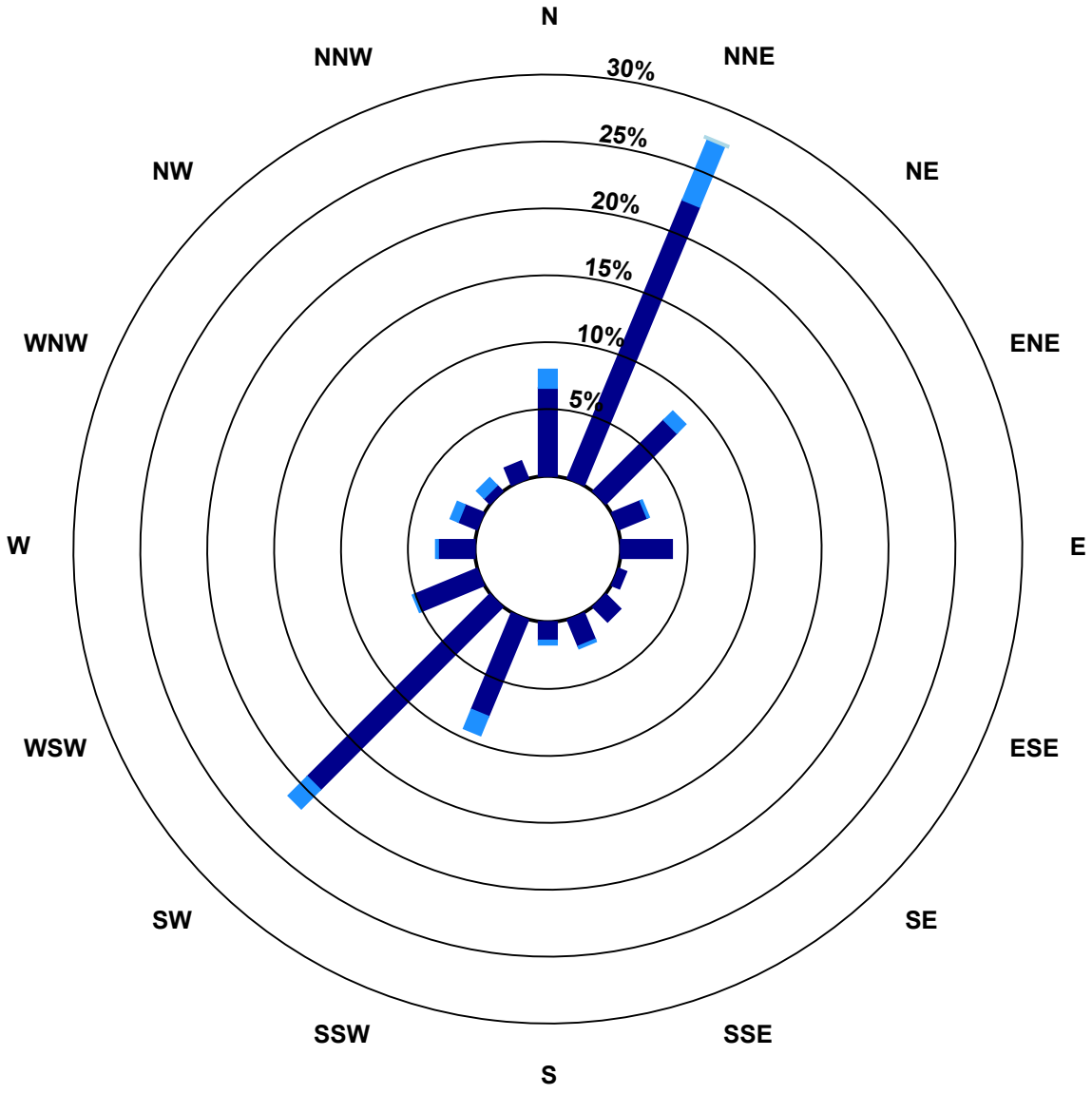
Total Number of Hours: 672

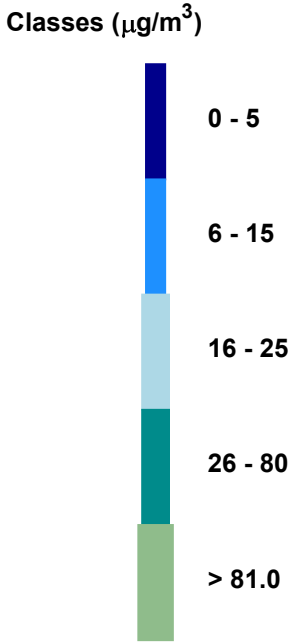
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Janvier





Total Number of Valid Hours: 653

Maximum Value: 10.3 C on Feb 4 15:00

Maximum Daily Average: 4.0 C on Feb 4

Minimum Value: -36.2 C on Feb 28 05:00

Minimum Daily Average: -28.7 C on Feb 18

Maximum Diurnal Average: -8.1 C at hour 16

Minimum Diurnal Average: -14.8 C at hour 8

Monthly Average: -11.99 C

Percentiles: P_1 = -35.1 P_{10} = -26.1 Q_1 = -19.5 Median = -10.4 Q_3 = -4.8 P_{90} = 0.5 P_{99} = 6.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

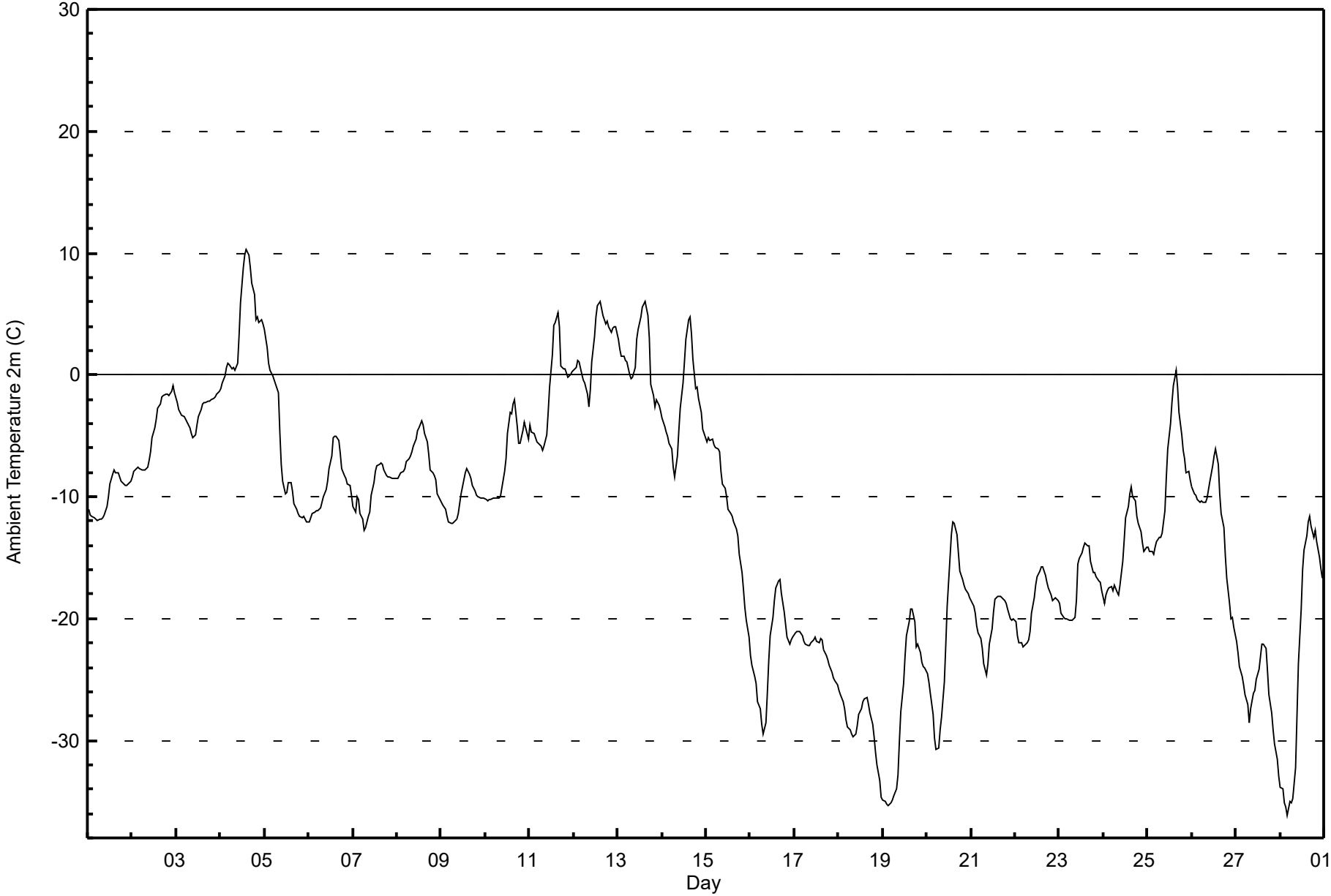
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.1	-11.4	-11.7	-11.7	-11.9	-11.9	-11.9	-11.9	-11.8	-11.5	-10.8	-10.0	-9.0	-8.2	-7.9	-8.0	-8.0	-8.3	-8.7	-9.0	-9.1	-9.1	-8.9	-8.7	-10.0	-7.9
2-Feb	-8.4	-7.9	-7.7	-7.6	-7.7	-7.8	-7.8	-7.8	-7.6	-7.0	-6.3	-5.1	-4.3	-3.7	-2.7	-2.3	-1.8	-1.7	-1.6	-1.6	-1.7	-1.4	-0.8	-1.4	-4.7	-0.8
3-Feb	-2.2	-2.9	-3.1	-3.3	-3.4	-3.7	-3.9	-4.3	-4.8	-5.2	-4.9	-4.2	-3.4	-2.8	-2.4	-2.2	-2.2	-2.2	-2.1	-2.1	-1.9	-1.8	-1.6	-1.3	-3.0	-1.3
4-Feb	-1.1	-0.7	-0.1	0.6	0.9	0.8	0.5	0.6	0.4	0.9	3.3	6.0	8.7	9.8	10.3	9.8	8.8	7.6	6.6	4.5	4.8	4.4	4.5	4.2	4.0	10.3
5-Feb	3.7	2.2	1.0	0.4	-0.1	-0.5	-0.8	-1.5	-4.6	-7.3	-8.8	-9.8	-9.7	-8.9	-8.8	-9.5	-10.6	-11.0	-11.3	-11.6	-11.8	-11.6	-11.8	-12.1	-6.4	3.7
6-Feb	-12.0	-11.7	-11.3	-11.2	-11.2	-11.1	-10.9	-10.5	-10.0	-9.5	-8.7	-7.7	-6.6	-5.2	-5.0	-5.0	-5.4	-6.4	-7.7	-8.2	-8.6	-8.9	-9.0	-9.9	-8.8	-5.0
7-Feb	-10.8	-11.2	-10.0	-10.2	-11.4	-11.9	-12.8	-12.6	-11.6	-11.2	-9.8	-8.8	-7.9	-7.5	-7.3	-7.3	-7.4	-7.8	-8.2	-8.4	-8.4	-8.4	-8.5	-8.5	-9.5	-7.3
8-Feb	-8.5	-8.3	-8.0	-8.0	-7.7	-7.2	-6.9	-6.6	-6.3	-5.9	-5.3	-4.6	-4.3	-3.8	-4.1	-4.8	-5.5	-6.6	-7.8	-8.1	-8.3	-8.6	-9.8	-10.2	-6.9	-3.8
9-Feb	-10.4	-10.7	-11.1	-11.7	-12.1	-12.2	-12.2	-12.0	-11.8	-11.4	-10.6	-9.8	-8.6	-8.1	-7.7	-8.1	-8.5	-9.1	-9.6	-9.9	-10.0	-10.1	-10.1	-10.1	-10.2	-7.7
10-Feb	-10.2	-10.3	-10.2	-10.2	-10.1	-10.1	-10.1	-10.1	-10.0	-9.3	-7.9	-6.8	-4.8	-3.1	-3.2	-2.4	-2.0	-4.2	-5.6	-5.6	-4.6	-3.9	-4.4	-5.2	-6.9	-2.0
11-Feb	-4.2	-4.7	-4.8	-5.2	-5.5	-5.6	-5.8	-6.2	-5.9	-4.9	-3.1	-1.0	1.6	4.1	4.3	5.1	4.0	0.7	0.5	0.5	0.1	-0.2	0.1	0.3	-1.5	5.1
12-Feb	0.4	0.6	1.2	1.1	0.1	-0.4	-0.6	-1.5	-2.6	-1.3	1.1	3.2	4.8	5.7	6.1	5.5	4.8	4.2	4.4	4.0	3.4	3.8	4.0	4.0	2.3	6.1
13-Feb	2.9	2.2	1.5	1.5	1.2	1.1	0.1	-0.3	-0.2	0.6	2.9	3.7	4.7	5.5	5.8	6.0	4.9	3.0	-0.8	-1.7	-2.6	-2.0	-2.5	-3.0	1.4	6.0
14-Feb	-3.5	-4.2	-4.7	-5.1	-5.7	-6.1	-7.6	-8.4	-6.7	-4.6	-2.7	-0.6	1.0	2.9	4.5	4.7	3.4	1.3	-1.1	-1.0	-2.0	-3.1	-4.4	-4.8	-2.4	4.7
15-Feb	-5.5	-5.2	-5.3	-5.2	-5.7	-6.0	-6.1	-6.3	-7.9	-8.9	-9.3	-10.0	-11.0	-11.3	-11.6	-12.1	-12.6	-13.2	-14.7	-16.2	-17.6	-19.1	-20.1	-21.5	-10.9	-5.2
16-Feb	-23.1	-23.9	-24.8	-25.3	-26.9	-27.3	-28.7	-29.5	-28.5	-26.1	-23.5	-21.4	-19.9	-18.6	-17.5	-16.9	-16.8	-18.0	-19.4	-20.5	-21.5	-22.1	-21.7	-21.5	-22.6	-16.8
17-Feb	-21.2	-21.1	-21.0	-21.1	-21.4	-21.9	-22.1	-22.3	-22.2	-22.0	-21.8	-21.5	-21.9	-22.0	-21.7	-21.7	-22.6	-23.0	-23.3	-23.9	-24.4	-24.8	-25.1	-25.5	-22.5	-21.0
18-Feb	-25.9	-26.3	-26.8	-27.4	-28.4	-28.9	-29.1	-29.4	-29.7	-29.5	-28.7	-27.8	-27.4	-26.8	-26.6	-26.4	-27.1	-27.7	-28.7	-29.7	-31.0	-32.0	-33.3	-34.6	-28.7	-25.9
19-Feb	-34.9	-35.0	-35.2	-35.4	-35.1	-34.9	-34.5	-33.9	-32.8	-30.1	-27.6	-25.4	-23.2	-21.4	-20.2	-19.3	-19.2	-20.2	-22.3	-22.1	-22.8	-23.6	-24.0	-24.0	-27.4	-19.2
20-Feb	-24.5	-25.2	-26.1	-27.8	-29.8	-30.7	-30.6	-29.1	-28.1	-25.2	-22.2	-19.0	-15.1	-13.1	-12.1	-12.2	-13.1	-14.6	-16.0	-16.8	-17.3	-17.6	-18.0	-18.3	-20.9	-12.1
21-Feb	-18.6	-19.0	-19.6	-20.6	-21.2	-21.6	-22.5	-23.8	-24.6	-23.7	-22.1	-20.8	-19.5	-18.4	-18.2	-18.2	-18.1	-18.2	-18.5	-18.7	-19.2	-20.1	-20.2	-20.0	-20.2	-18.1
22-Feb	-20.2	-21.4	-22.0	-21.9	-22.3	-22.2	-22.0	-21.8	-21.1	-19.5	-18.3	-17.2	-16.5	-16.1	-15.8	-15.8	-16.5	-17.0	-17.5	-18.1	-18.5	-18.5	-18.3	-18.5	-19.0	-15.8
23-Feb	-18.8	-19.5	-19.9	-20.0	-20.0	-20.1	-20.2	-20.1	-19.9	-18.6	-15.6	-15.0	-14.6	-14.1	-13.8	-14.0	-14.0	-15.3	-16.2	-16.2	-16.6	-16.9	-17.1	-17.7	-17.3	-13.8
24-Feb	-18.8	-18.1	-17.7	-17.5	-17.4	-17.7	-17.3	-17.8	-18.0	-17.3	-15.3	-13.5	-11.7	-10.8	-9.8	-9.2	-10.0	-10.3	-11.6	-12.1	-12.9	-13.9	-14.5	-14.1	-14.5	-9.2
25-Feb	-14.2	-14.5	-14.5	-14.8	-14.2	-13.7	-13.4	-13.4	-13.0	-11.2	-8.4	-6.1	-3.9	-2.3	-0.9	0.4	-1.0	-3.1	-4.9	-6.2	-6.9	-8.1	-8.0	-8.6	-8.5	0.4
26-Feb	-9.2	-9.8	-9.9	-10.2	-10.5	-10.4	-10.4	-10.4	-10.1	-9.5	-8.7	-7.4	-6.6	-6.1	-7.3	-9.7	-11.4	-12.6	-14.8	-16.6	-18.8	-20.0	-20.0	-20.7	-11.7	-6.1
27-Feb	-21.8	-22.8	-23.9	-24.8	-25.4	-26.3	-27.1	-28.5	-27.4	-26.1	-25.9	-24.9	-24.2	-23.1	-22.1	-22.1	-22.5	-24.3	-26.2	-27.7	-29.1	-30.3	-31.6	-32.9	-25.9	-21.8
28-Feb	-33.8	-34.0	-35.1	-35.5	-36.2	-35.1	-35.1	-34.8	-32.3	-28.0	-23.7	-19.3	-16.0	-14.4	-13.3	-12.1	-11.6	-12.5	-13.3	-12.8	-13.6	-15.0	-15.9	-16.7	-22.9	-11.6
	-13.1	-13.4	-13.6	-13.9	-14.2	-14.4	-14.6	-14.8	-14.6	-13.7	-12.2	-10.9	-9.6	-8.6	-8.2	-8.1	-8.6	-9.7	-10.7	-11.3	-11.8	-12.2	-12.5	-12.9	Diurnal Average	
	3.7	2.2	1.5	1.5	1.2	1.1	0.5	0.6	0.4	0.9	3.3	6.0	8.7	9.8	10.3	9.8	8.8	7.6	6.6	4.5	4.8	4.4	4.5	4.2	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Janvier - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	159	23.66	23.66
-20 - 0	435	64.73	88.39
0 - 10	77	11.46	99.85
10 - 20	1	0.15	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 96.9 % on Feb 5 07:00
Maximum Daily Average: 92.1 % on Feb 7

Minimum Value: 28.4 % on Feb 13 16:00
Minimum Daily Average: 41.2 % on Feb 13
Maximum Diurnal Average: 80.6 % at hour 8
Minimum Diurnal Average: 65.8 % at hour 15
Monthly Average: 75.03 %
Percentiles: P_1 = 35.2 P_{10} = 53.4 Q_1 = 67.6 Median = 76.6 Q_3 = 86.6 P_{90} = 91.8 P_{99} = 94.9

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

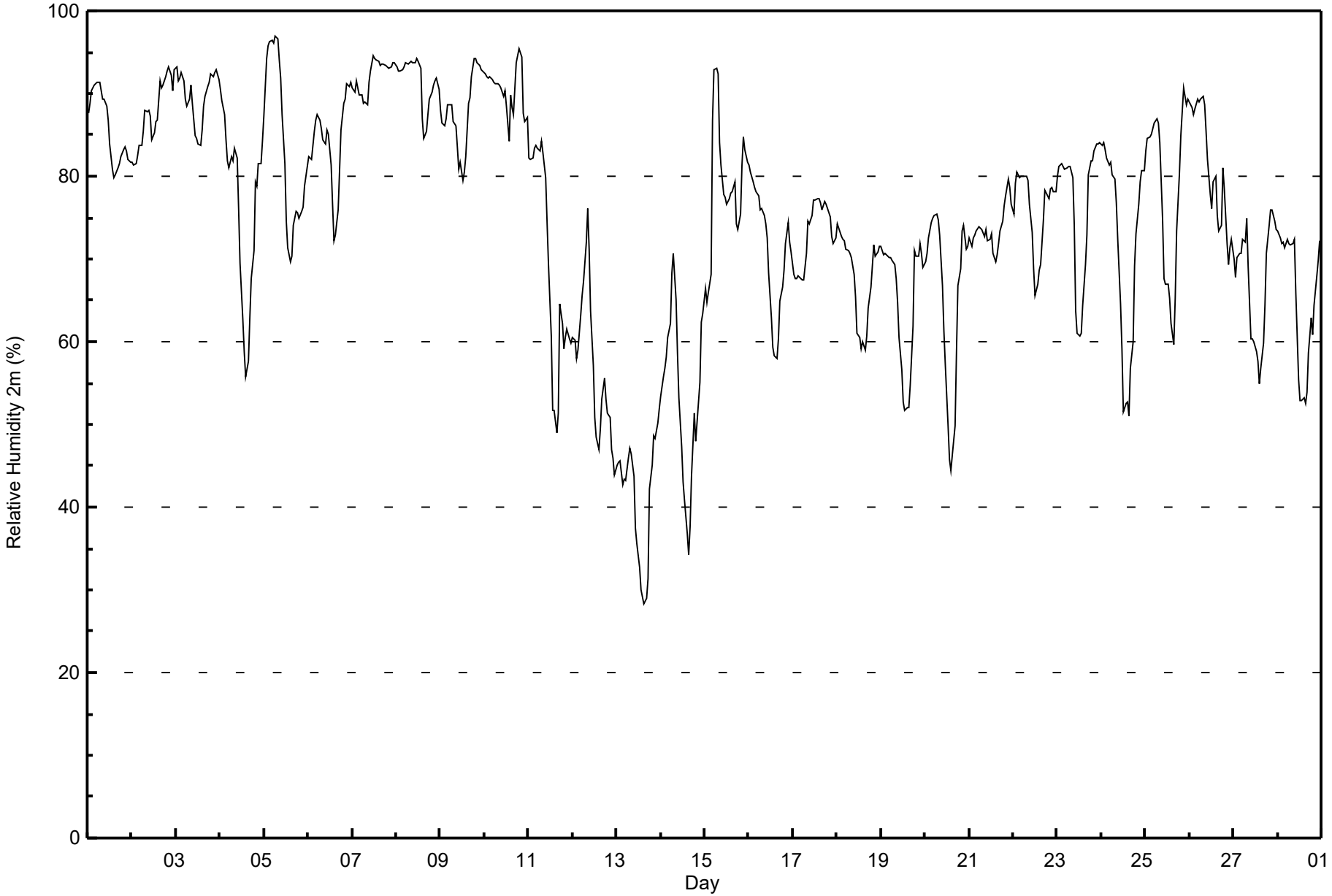
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	87.6	88.9	90.4	91.0	91.2	91.3	91.3	90.3	89.3	89.3	88.5	86.8	83.9	80.8	79.8	80.2	81.0	81.6	82.3	83.1	83.5	83.0	82.0	81.7	85.8	91.3
2-Feb	81.8	81.4	81.5	82.5	83.8	83.8	85.4	87.9	87.9	88.0	87.2	84.5	85.2	86.6	86.8	91.6	90.7	91.0	92.0	92.7	93.2	92.3	90.4	92.9	87.5	93.2
3-Feb	93.2	91.6	91.8	92.6	91.6	89.3	88.5	89.4	91.1	88.7	84.9	84.6	83.9	83.8	85.6	88.4	89.6	90.8	91.4	92.4	92.1	92.5	92.8	91.6	89.7	93.2
4-Feb	90.6	89.1	87.5	84.4	81.8	81.0	82.4	81.8	83.4	82.2	76.1	69.5	62.7	58.8	55.7	57.6	62.8	67.6	71.0	79.4	78.8	81.5	81.5	84.3	76.3	90.6
5-Feb	87.4	94.3	95.8	96.2	96.5	96.1	96.9	96.6	94.1	91.8	87.4	81.5	74.5	71.4	69.6	70.4	74.1	75.8	75.5	74.9	75.8	76.3	78.8	80.0	83.8	96.9
6-Feb	82.3	82.2	82.0	85.4	86.9	87.5	86.8	85.8	84.4	83.8	85.6	85.2	81.3	76.6	72.1	72.9	76.0	80.7	85.6	88.8	89.4	91.2	90.9	91.3	83.9	91.3
7-Feb	90.7	90.1	91.6	90.7	89.8	89.9	88.7	88.9	88.6	91.3	92.7	94.7	94.3	94.1	93.9	93.5	93.6	93.5	93.4	93.2	93.1	93.2	93.7	93.7	92.1	94.7
8-Feb	93.2	92.8	92.8	92.9	93.2	93.7	93.6	93.7	93.8	93.7	93.8	94.3	93.8	93.1	87.0	84.6	85.4	87.5	89.3	90.1	91.0	91.6	91.8	90.5	91.5	94.3
9-Feb	88.0	86.5	86.2	87.0	88.6	88.6	88.7	86.6	86.2	83.5	80.9	81.6	79.4	80.5	82.4	88.8	89.5	92.1	94.3	94.2	93.8	93.3	92.9	92.7	87.8	94.3
10-Feb	92.3	92.0	91.9	92.0	91.7	91.3	91.1	91.1	91.0	90.7	89.7	90.4	88.5	84.2	89.8	88.3	87.5	93.7	94.6	95.4	94.5	87.6	86.5	87.1	90.5	95.4
11-Feb	82.1	82.1	82.3	83.5	83.8	83.4	83.1	84.2	82.9	79.8	74.5	69.4	60.7	51.7	51.7	49.0	51.3	64.6	62.2	59.1	60.4	61.5	60.4	59.8	69.3	84.2
12-Feb	60.5	60.1	57.9	59.0	63.2	65.5	67.2	72.1	76.0	71.1	63.7	57.2	50.9	48.4	47.0	49.4	53.0	55.5	53.0	51.4	50.9	47.0	45.9	43.9	57.1	76.0
13-Feb	45.2	45.4	45.7	42.8	43.3	43.1	46.0	47.0	46.4	43.8	37.4	35.5	32.7	30.1	29.2	28.4	29.0	31.4	42.2	45.0	48.6	48.4	50.2	51.9	41.2	51.9
14-Feb	53.3	55.8	56.9	58.2	60.4	62.2	68.2	70.7	65.1	58.7	53.3	47.4	43.1	40.8	36.8	34.2	37.6	43.7	51.4	48.0	50.4	55.2	62.4	63.4	53.2	70.7
15-Feb	66.4	64.7	66.0	68.2	86.8	92.8	93.0	92.4	84.1	81.4	77.8	77.5	76.6	77.3	78.0	78.1	79.3	74.3	73.5	75.5	81.3	84.7	83.2	81.6	78.9	93.0
16-Feb	81.3	80.5	79.4	78.7	78.1	77.6	76.0	76.1	75.2	74.3	72.5	68.4	63.0	59.3	58.4	58.0	60.3	64.8	66.7	68.6	71.9	74.4	72.1	70.8	71.1	81.3
17-Feb	68.1	67.6	67.5	67.9	67.6	67.4	67.5	70.7	74.5	74.3	75.2	77.1	77.1	77.3	77.3	76.8	75.9	77.0	76.6	76.2	75.1	72.7	71.9	72.5	73.0	77.3
18-Feb	74.2	73.8	72.7	72.4	72.2	71.1	71.0	70.6	70.1	68.2	65.4	61.0	60.4	59.1	60.0	59.0	60.6	64.1	66.7	69.1	71.8	70.3	70.9	71.5	67.8	74.2
19-Feb	71.4	70.4	70.7	70.5	70.1	70.1	69.9	69.4	67.6	64.8	60.5	56.7	52.8	51.7	52.1	52.1	54.7	61.9	71.1	70.3	70.4	71.8	70.7	68.9	65.0	71.8
20-Feb	69.7	70.8	72.6	74.4	74.9	75.2	75.4	74.7	72.8	66.8	61.4	57.3	49.9	45.7	44.5	46.3	49.9	58.7	66.8	68.9	73.3	74.0	71.2	71.6	65.3	75.4
21-Feb	72.5	71.5	72.5	73.0	73.4	73.9	73.8	73.5	72.7	73.6	72.1	72.3	73.1	70.7	69.6	70.6	71.8	73.3	74.6	76.4	77.6	79.7	78.7	76.7	73.7	79.7
22-Feb	75.5	79.2	80.6	79.8	80.1	80.0	80.0	80.0	79.6	76.5	73.1	68.9	65.5	67.0	68.6	69.2	74.7	78.3	77.9	77.3	78.5	78.6	78.2	78.2	76.1	80.6
23-Feb	80.0	81.1	81.5	81.2	80.9	81.0	81.2	81.2	79.8	74.0	63.7	61.0	60.6	61.0	64.4	69.3	72.9	80.2	81.9	81.8	83.0	83.8	83.9	84.1	76.4	84.1
24-Feb	83.7	84.0	83.3	82.3	81.3	81.8	80.1	79.7	76.8	72.3	64.6	59.2	51.5	52.6	52.6	51.1	56.7	60.0	69.1	73.0	76.7	79.3	80.7	80.8	71.4	84.0
25-Feb	83.1	84.7	84.8	85.1	85.8	86.4	86.9	86.5	84.2	74.7	67.6	66.9	66.9	65.3	62.3	59.7	65.3	73.3	80.3	84.9	87.8	90.7	88.6	89.4	78.8	90.7
26-Feb	89.1	88.3	87.5	88.1	89.4	89.0	89.4	89.6	88.6	85.4	82.0	77.9	76.2	79.3	80.0	75.2	73.5	74.0	81.0	78.4	71.8	69.3	71.3	72.4	81.1	89.6
27-Feb	70.0	67.8	70.1	70.6	70.7	72.4	72.0	74.9	69.2	60.4	60.3	59.9	58.8	57.7	54.9	56.8	59.8	64.3	70.6	74.1	76.0	75.9	74.5	73.6	67.3	76.0
28-Feb	73.4	72.6	71.9	72.0	71.3	72.4	71.8	71.7	71.9	72.4	65.9	55.4	52.8	52.9	53.3	52.5	53.9	58.7	62.8	60.9	64.4	68.0	69.9	72.2	65.2	73.4
	78.1	78.2	78.4	78.7	79.6	79.9	80.2	80.6	79.5	77.0	73.5	70.8	67.9	66.3	65.8	66.2	68.2	71.9	74.9	75.8	77.0	77.4	77.4	77.5	Diurnal Average	
	93.2	94.3	95.8	96.2	96.5	96.1	96.9	96.6	94.1	93.7	93.8	94.7	94.3	94.1	93.9	93.5	93.6	93.7	94.6	95.4	94.5	93.3	93.7	93.7	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Janvier - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 20m (WS20) - km/h

Janvier - February 2026

Maximum Speed: 22 km/h on Feb 17 20:00

Maximum Daily Speed Average: 17.8 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 24 23:00

Minimum Daily Speed Average: 1.6 km/h on Feb 3

Maximum Diurnal Speed Average: 3.3 km/h at hour 15

Minimum Diurnal Speed Average: 0.5 km/h at hour 1

Monthly Average Velocity: 1.2 km/h 301.6 deg

Percentiles: P_1 = 1 P_{10} = 3 Q_1 = 5 Median = 8 Q_3 = 11 P_{90} = 13 P_{99} = 20

Hours in Service: 672

Hours of Data: 654

Hours of Missing Data: 18

Percent Operational Time: 97.3

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE9	NE6	NE5	E4	ENE5	E5	E5	E4	E5	ESE6	SE7	SE7	SSE7	SSE8	SE8	SE9	SE7	SE7	SE7	SE6	SSE5	SSE6	SSE6	SSE6	ESE5.1	NE9
2-Feb	SSE5	SE4	SSE6	SSE5	S6	SSE6	S7	S7	S7	S7	SSW9	SSW10	SW11	SW9	SW8	SSW6	SSW5	SW5	SW6	WSW5	WNW3	NW7	WNW8	NNE7	SSW4.7	SW11
3-Feb	NNE8	NNE7	NE5	NNE4	NNE5	NNE5	NNE6	NE5	NE7	NNE7	NE4	S3	SSE3	SW3	SW5	SSW7	SSW8	SSW7	SSW9	SSW9	SSW11	SSW12	SSW12	SSW11	S1.6	SSW12
4-Feb	SSW10	SSW8	SSW12	SSW15	SW16	SW15	SW16	SW14	SW16	SW16	SW15	SW12	WSW15	W17	WNW18	WNW15	W12	WSW11	WSW11	SW10	SW9	WSW9	SW8	SW8	SW11.6	WNW18
5-Feb	WNW2	NNE4	NNE7	NNE7	NNE8	NNE10	N10	NNE9	NNE15	NNE12	NNE10	NNE12	NNE11	NNE9	NNE9	NNE10	NNE9	NE8	NE9	NE8	NE5	ENE5	ENE6	E6	NNE8.0	NNE15
6-Feb	S2	S3	ESE4	E5	ENE6	ENE5	NE4	NE6	NE6	NE6	ENE5	NE7	NE9	NE9	NNE10	N8	N4	NNE5	N3	N4	NNE4	NNW3	N4	NNE3	NE4.3	NNE10
7-Feb	SSW5	SSW4	SW7	SSW7	W3	NNE4	NE1	WSW1	ENE3	NE2	N2	NNE5	NNE5	NNE6	NE8	ENE6	NNE6	NNE6	NNE6	NNE6	NNE4	N3	NNE5	NNE5	NNE2.3	NE8
8-Feb	NNE6	N4	N3	N2	N4	N4	NW3	W2	SSW2	S2	SSW3	WNW4	N4	WNW4	NW13	NW10	NW9	N6	NNE6	NNE6	NE4	NNE7	NNE8	NNE7	N3.6	NW13
9-Feb	NNE6	NE6	NE4	E3	NE2	NNW0	E2	E4	NNE5	N4	N4	NNE5	NNE3	NNE6	N9	NNE9	NNE7	NNE8	NE8	NNE7	NNE7	NE7	NE6	NNE5	NNE5.1	NNE9
10-Feb	NNE4	NNE3	NNE4	NNE4	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	SW11	SW10	SW11	----	SW11
11-Feb	SW13	SSW13	SW13	SW12	SW12	SW14	SW14	SW13	SW13	SW12	SW13	SW13	SW14	WSW13	SW10	SW10	SW10	SSW10	SW11	SW11	SW11	SW12	SW13	SW12	SW12.0	SW14
12-Feb	SW11	SW10	SW10	SW12	SW12	SW12	WSW10	WSW8	S9	SSW9	SW11	WSW11	SW12	SW13	SW14	SW11	SSW10	SSW12	SSW16	SW15	SW17	SW17	SW14	SW14	SW11.7	SW17
13-Feb	SW12	SW12	SW11	WSW11	WSW11	WSW12	WSW13	WSW15	WSW15	SSW3	WNW13	W14	W13	W16	W16	W12	W12	WSW8	SW8	SW9	SW10	SW11	SW10	SW10	WSW10.8	W16
14-Feb	SW12	SW11	SW10	SW10	SW10	SW9	SW7	SW9	SW12	SW11	SW8	SW10	SW9	SW10	W9	W11	W12	W8	WSW8	W9	WSW7	W6	SSW4	SSW7	SW8.5	SW12
15-Feb	SW7	SW9	SW8	WSW6	SW5	SW7	WSW6	N4	NNE9	NNE9	NNE9	NE11	NNE10	NNE9	NNE10	NNE10	NNE10	NNE10	NNE10	NNE10	NE9	NNE8	NNE9	NNE5	NNE4.4	NE11
16-Feb	NNE4	NNE5	ENE3	NE3	WNW0	ENE2	NNE1	WNW2	NNE3	N2	NNW3	NNW5	NNE7	NNE9	N10	NNE10	NE10	NE12	NE11	NE10	NE8	NNE8	NE9	NE11	NNE5.8	NE12
17-Feb	NE12	NNE9	NNE12	NNE14	NNE16	NNE19	NNE17	NNE17	NNE17	NNE20	NNE17	NNE18	NNE21	NNE20	NNE19	NNE20	NNE21	NNE20	NNE20	NNE22	NNE20	NNE21	NNE20	NNE18	NNE17.8	NNE22
18-Feb	NNE17	NNE14	NNE17	NNE17	N15	N13	N12	N12	N12	N9	N11	NNE12	NNE11	N10	N9	NNE9	NE9	NNE7	NNE7	NNW3	WNW5	WNW3	WSW4	SW6	N9.2	NNE17
19-Feb	SSW8	SSW9	SW8	SW8	SW11	SW11	SW10	SSW10	SSW10	SW8	SW9	SW12	SW12	SW12	SW13	SW10	SW10	SW9	SSW8	SSW12	SW11	SW11	SW12	SW12	SW10.1	SW13
20-Feb	SW12	SW11	SSW11	SSW7	SSW8	SSW8	SW10	SSW11	SSW12	SW9	SW9	SSW6	SW5	SSW1	ENE4	NE6	NNE6	NE5	NNE5	NNE7	NNE5	NNE6	NNE8	NNE7	SW2.6	SW12
21-Feb	NNE7	NNE8	NNE8	NNE10	NNE9	NNE8	NNE10	NNE12	NNE9	NNE6	NNE6	NE6	NE8	NNE8	NNE10	NNE8	NE9	NE8	NNE7	NNE6	NE7	NNE7	NE8	ENE8	NNE7.9	NNE12
22-Feb	ENE6	NNE6	NE6	NE5	NNE3	NNE3	NNE3	NNE4	NNE4	E7	E8	E9	ESE9	E9	E10	E10	E11	E9	E9	E9	E8	E6	E5	E6	ENE6.3	E11
23-Feb	ENE5	NNE4	NNE5	N5	N3	N4	WSW3	ENE1	WSW2	WSW4	WNW3	NNE5	NW3	W8	WNW6	NNE7	N4	NNE6	NNE4	NNE3	UO	SW3	SW4	SW6	NNW1.9	W8
24-Feb	SW6	SSW7	SW6	WSW6	WSW7	WSW7	SW7	WSW8	WSW8	WSW9	SW10	WSW8	WSW8	SW9	SW12	WSW9	SW7	S4	SSE6	SSE5	SSE5	SE1	SSE0	ESE1	SW5.7	SW12
25-Feb	E3	NNE2	NNE3	NNE5	NNE4	N4	N5	N4	N2	W2	SW4	SW5	SSW6	SSW9	SW7	W6	N5	N5	NNE3	NNE6	NNE7	NNE6	NNE6	NNE6	N1.8	SSW9
26-Feb	N5	NNE5	NNE5	NNE7	NNE7	NNE6	NNE8	NNE7	NNE7	N7	N4	NNW2	NNE5	NNE8	N12	NW15	NW12	NW14	NNW13	N12	N15	N13	N13	N13	N8.3	NW15
27-Feb	N12	N9	N8	N8	N10	N7	NNE8	N5	NNW6	NNE8	NE10	NE10	NE9	NE8	NE9	NNE9	NNE9	NNE8	NE7	NE6	NNE3	SW3	SSW3	SSW5	NNE6.3	N12
28-Feb	SSW6	SSW6	SSW8	SW8	SW9	SW12	SSW11	SSW12	SW11	SW10	SSW11	WSW7	SW11	SW15	SW14	SW14	SW14	SSW10	SSW10	SSW12	SW12	SW13	SW14	SW15	SW10.9	SW15
	W0.5	W0.9	WSW0.8	W0.8	WNW1.3	W1.2	W1.6	W1.4	WNW1.1	WNW0.9	W1.3	WNW1.1	WNW1.7	WNW2.3	NW3.3	NNW3.1	NNW2.3	N1.8	NNE1.3	NNE1.0	NW0.8	W1.3	W0.9	WSW1.0	Diurnal Average	
	NNE17	NNE14	NNE17	NNE17	SW16	NNE19	NNE17	NNE17	NNE17	NNE20	NNE17	NNE18	NNE21	NNE20	NNE19	NNE20	NNE21	NNE20	NNE20	NNE22	NNE20	NNE21	NNE20	NNE18	Diurnal Maximum	

UO - Unstable Operation

All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 20m (WS20) - km/h

Janvier - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 7 km/h on Feb 17 22:00

Minimum Value: 1 km/h on Feb 16 08:00

Percentiles: $P_1 = 1$ $P_{10} = 1$ $Q_1 = 1$ Median = 2 $Q_3 = 3$ $P_{90} = 4$ $P_{99} = 6$

Hours in Service:	672
Hours of Data:	654
Hours of Missing Data:	18
Hours of Calibration:	0
Percent Operational Time:	97.3

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	2	2	1	1	2	2	1	2	2	2	2	2	3	3	2	2	2	2	2	1	2	2	2	3
2-Feb	2	1	1	1	1	2	2	2	2	2	2	3	3	3	2	1	1	1	1	1	1	4	2	3	4
3-Feb	2	2	1	1	2	2	2	1	1	2	2	2	1	1	2	2	2	2	3	2	3	3	3	3	3
4-Feb	3	2	3	4	4	4	4	4	4	4	4	3	5	5	6	4	3	2	3	2	2	2	2	2	6
5-Feb	2	2	2	2	2	3	3	3	5	4	4	3	3	3	2	3	3	2	2	2	1	2	2	2	5
6-Feb	1	1	2	2	1	1	1	2	1	2	1	2	2	2	3	2	1	1	1	1	1	1	1	1	3
7-Feb	1	2	3	2	2	1	1	1	1	1	1	2	2	2	3	1	2	2	2	2	1	1	1	1	3
8-Feb	1	1	1	1	1	1	1	2	1	1	1	1	1	3	4	3	4	2	1	2	1	4	3	2	4
9-Feb	2	2	1	1	2	1	2	1	2	2	2	1	1	1	3	2	2	2	2	2	2	1	1	1	3
10-Feb	1	1	1	1	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	2	1	2	2
11-Feb	2	2	2	3	3	3	3	3	3	3	3	3	4	4	3	3	2	2	2	2	2	3	3	3	4
12-Feb	3	2	2	3	3	3	3	3	2	2	3	3	4	4	5	3	2	3	4	3	4	5	4	4	5
13-Feb	3	3	3	3	3	3	3	3	4	3	5	5	4	6	6	4	5	2	2	2	1	2	2	2	6
14-Feb	2	2	2	2	2	2	2	2	3	3	2	2	2	3	3	3	4	3	1	2	3	2	2	1	4
15-Feb	1	2	2	2	1	1	1	3	2	2	3	2	3	2	2	3	3	3	2	2	1	2	2	3	3
16-Feb	1	1	1	2	1	2	1	1	2	1	1	1	2	3	3	3	3	3	2	2	2	1	2	4	4
17-Feb	3	3	3	4	5	5	5	5	5	6	5	5	6	6	6	6	7	6	7	7	6	7	7	6	7
18-Feb	6	5	6	5	5	5	4	4	5	4	4	4	4	4	3	3	2	2	2	1	1	1	1	1	6
19-Feb	1	1	1	2	3	2	2	2	2	2	3	3	3	4	4	4	3	2	2	2	2	2	2	2	4
20-Feb	2	2	2	1	1	1	1	2	2	3	3	2	2	2	2	1	1	1	2	2	1	2	2	1	3
21-Feb	2	2	2	2	2	2	3	3	3	2	2	1	4	3	2	3	3	2	2	2	1	2	2	2	4
22-Feb	3	1	1	1	1	1	1	1	1	2	3	3	3	3	3	3	4	3	3	3	2	2	2	2	4
23-Feb	2	1	1	1	1	2	1	2	1	2	2	2	2	3	2	2	2	2	1	1	UO	1	1	1	3
24-Feb	1	1	1	1	1	2	2	2	2	2	3	3	3	4	4	3	3	1	1	1	1	1	1	1	4
25-Feb	1	1	1	1	2	1	1	1	1	2	2	2	2	2	2	2	2	1	1	2	2	2	2	1	2
26-Feb	1	2	1	2	2	2	2	2	2	2	1	1	2	3	4	6	4	7	5	5	6	5	5	5	7
27-Feb	5	4	3	3	3	2	2	2	2	3	2	2	2	2	2	2	3	2	2	1	2	1	1	1	5
28-Feb	1	1	1	1	2	2	2	2	2	3	3	3	4	4	4	5	5	3	3	3	3	3	4	3	5
	6	5	6	5	5	5	5	5	5	6	5	5	6	6	6	6	7	7	7	7	6	7	7	6	
	Diurnal Maximum																								

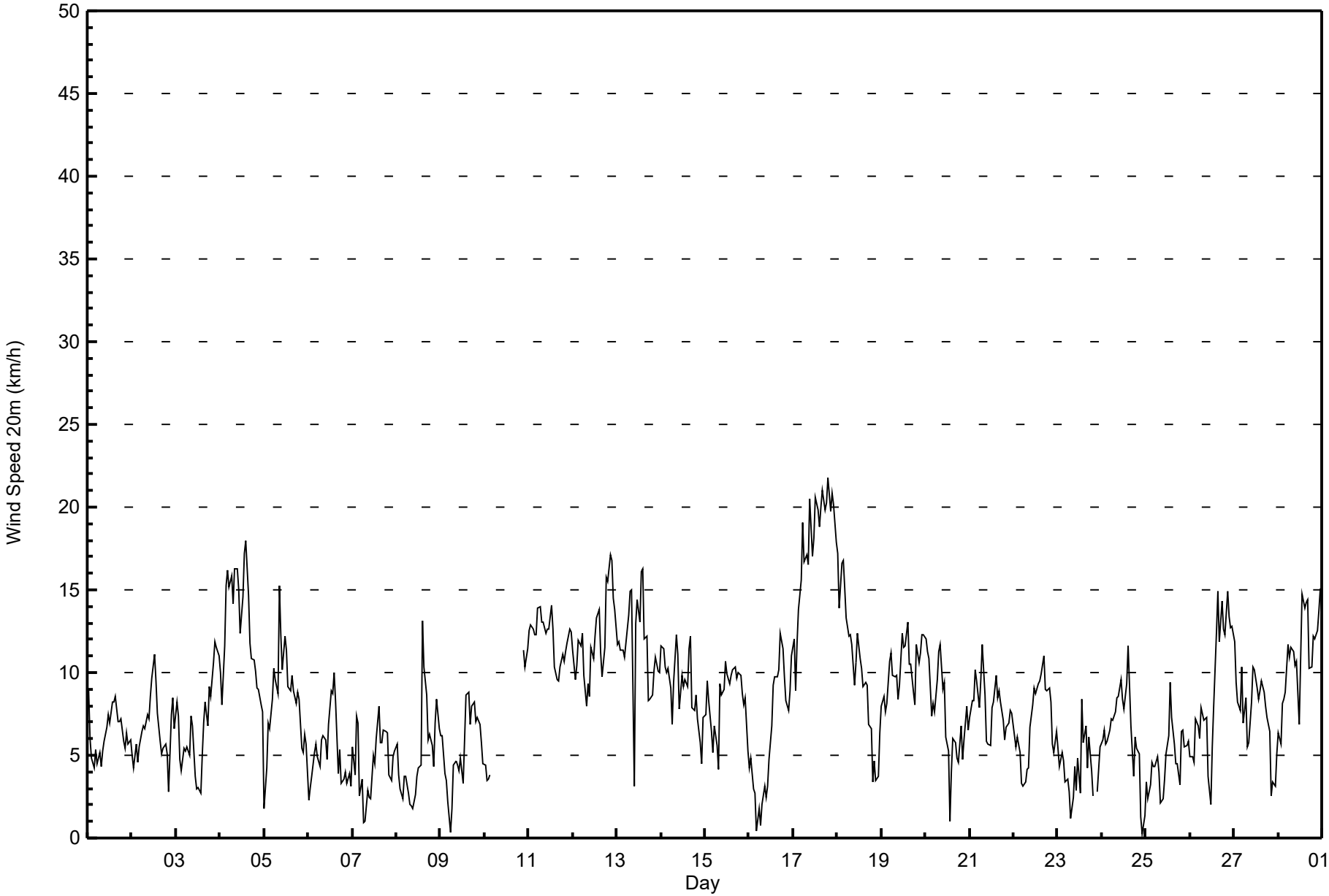
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 20m (WS20) - km/h

Janvier - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	173	26.45	26.45
6 - 11	347	53.06	79.51
12 - 19	123	18.81	98.32
20 - 28	11	1.68	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 654

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 20m (WS20) - km/h

Janvier - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	26	49	14	10	11	2	2	7	5	10	10	6	3	9	2	7	173
6 - 11	14	100	39	6	14	2	8	8	6	39	75	23	7	2	3	1	347
12 - 19	12	20	2	0	0	0	0	0	0	12	54	6	9	3	4	1	123
20 - 28	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	52	180	55	16	25	4	10	15	11	61	139	35	19	14	9	9	654

Total Number of Valid Hours: 654

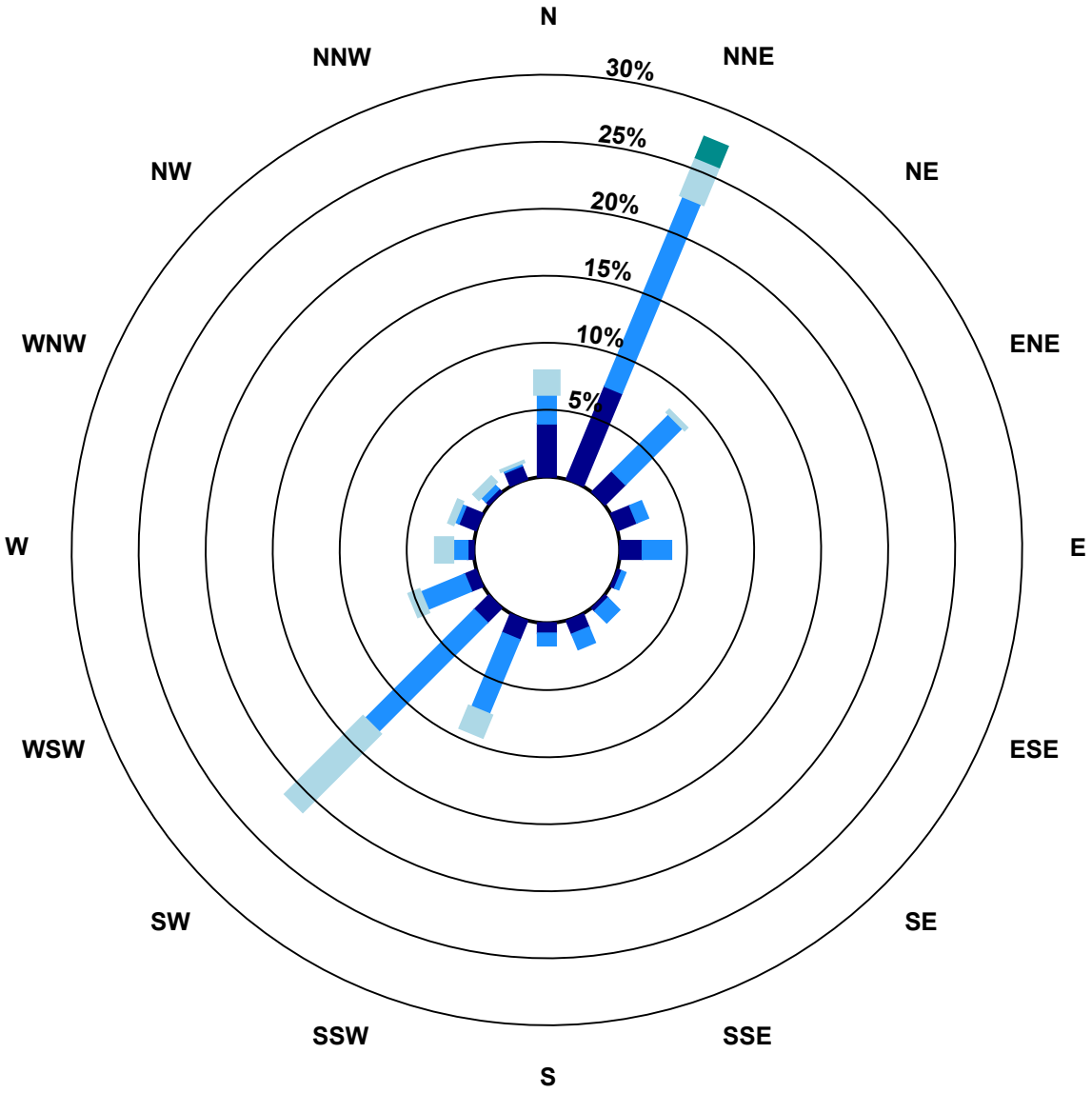
Total Number of Hours: 672

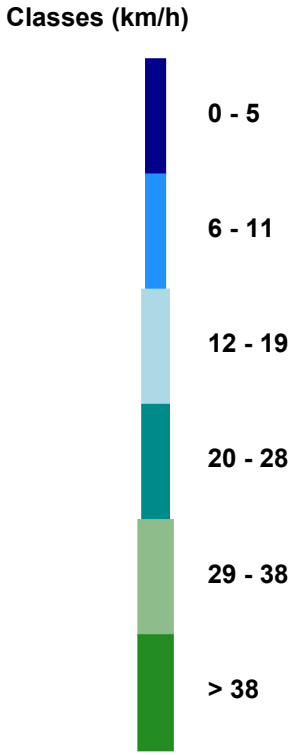
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 20m (WS20) - km/h

Janvier





Total Number of Valid Hours: 654

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 20m (WD20) - deg

Janvier - February 2026

Direction of Maximum Speed: 20 deg on Feb 17 20:00
Direction of Maximum Daily Speed Average: 23.1 deg on Feb 17

Direction of Minimum Speed: 161 deg on Feb 24 23:00
Direction of Minimum Daily Speed Average: 1.6 deg on Feb 3

Monthly Average Direction: 301.6 deg

Hours in Service:	672
Hours of Data:	654
Hours of Missing Data:	18
Percent Operational Time:	97.3

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	40	41	55	81	73	82	96	93	92	110	135	133	153	161	136	140	132	132	132	138	152	149	153	152	120.2
2-Feb	154	146	152	165	184	159	178	183	186	190	194	209	216	226	227	203	209	223	220	239	283	305	289	27	205.2
3-Feb	27	33	35	28	25	19	18	39	50	32	37	176	167	233	214	208	210	198	202	198	192	198	196	196	178.1
4-Feb	197	211	200	206	215	216	216	223	228	229	231	227	258	270	287	282	263	257	255	229	233	237	227	230	235.5
5-Feb	289	14	15	19	23	15	8	13	13	14	18	31	30	29	18	30	30	37	40	50	40	66	61	79	26.9
6-Feb	181	190	106	85	63	61	36	55	41	51	67	56	55	49	13	9	1	18	3	11	18	348	3	28	40.2
7-Feb	202	211	216	210	277	23	53	252	78	40	353	29	18	21	40	63	31	21	22	25	16	10	20	17	23.9
8-Feb	17	5	357	351	9	358	322	267	213	187	203	284	11	296	309	308	311	5	33	28	36	30	27	24	348.9
9-Feb	21	44	50	85	48	333	88	81	18	11	4	23	33	21	11	33	22	33	36	32	33	37	35	32	32.1
10-Feb	19	19	16	24	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	214	215	216	--
11-Feb	217	213	217	221	226	226	228	226	228	230	232	229	233	238	235	235	228	204	217	222	222	224	224	229	225.3
12-Feb	228	230	230	232	231	228	247	251	174	209	233	238	233	223	224	216	201	201	210	214	217	225	228	235	223.3
13-Feb	226	221	231	244	244	243	244	244	245	211	285	280	270	270	269	271	266	254	217	219	217	221	219	221	246.5
14-Feb	217	217	220	223	222	223	224	220	219	223	227	220	231	231	263	277	276	263	250	260	253	265	199	211	234.4
15-Feb	218	215	221	239	231	214	238	10	21	28	30	36	23	32	29	32	28	15	33	33	36	30	30	25	21.4
16-Feb	20	22	57	52	291	62	31	284	29	5	340	335	16	16	10	13	36	42	39	41	34	26	36	34	26.4
17-Feb	37	24	28	25	26	29	27	29	26	30	29	21	19	19	23	21	20	21	19	20	19	18	19	16	23.1
18-Feb	14	12	13	15	10	10	9	7	4	359	6	14	14	8	7	19	34	23	22	339	296	292	239	231	7.9
19-Feb	213	212	217	220	217	214	214	211	209	221	218	216	236	232	232	231	217	214	198	211	220	218	214	217	218.2
20-Feb	217	214	210	208	202	208	214	213	212	223	218	199	231	203	57	41	30	46	29	31	22	24	27	23	214.1
21-Feb	25	25	23	30	29	20	26	28	22	28	28	36	35	23	19	18	34	35	28	30	34	28	40	61	29.0
22-Feb	61	21	37	45	19	18	19	27	28	79	85	101	104	89	84	86	85	91	84	84	83	79	85	80	74.8
23-Feb	63	14	13	8	357	7	241	66	245	238	282	30	305	265	300	29	9	17	26	28	UO	220	224	235	338.9
24-Feb	222	212	219	240	238	246	236	252	241	239	232	239	253	225	228	250	228	185	147	162	164	138	161	108	226.7
25-Feb	82	33	14	14	17	11	3	349	349	269	214	230	205	206	221	279	10	11	26	20	22	23	27	22	356.4
26-Feb	11	15	19	21	20	25	24	18	19	11	9	343	18	15	360	317	315	310	345	358	359	355	353	350	355.8
27-Feb	354	357	0	8	3	7	13	355	347	20	39	42	41	43	35	27	15	20	42	36	20	232	208	203	17.8
28-Feb	204	206	210	214	215	215	213	213	217	223	209	245	227	223	220	225	220	210	205	208	218	218	222	219	217.1
	272.5	267.8	258.5	280.5	286.0	277.2	273.7	278.8	283.0	296.8	271.1	294.8	299.4	289.7	314.2	327.5	333.6	0.3	25.4	12.8	321.8	280.1	274.4	250.2	
	Diurnal Average																								

UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 94 deg on Feb 24 23:00

Minimum Value: 4 deg on Feb 28 00:00

Percentiles: P_1 = 7 P_{10} = 12 Q_1 = 16 Median = 19 Q_3 = 25 P_{90} = 33 P_{99} = 74

Hours in Service:	672
Hours of Data:	654
Hours of Missing Data:	18
Hours of Calibration:	0
Percent Operational Time:	97.3

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	14	15	30	30	20	26	21	28	23	24	24	20	28	26	30	21	21	20	19	21	21	19	22	21	30
2-Feb	21	19	18	21	15	21	20	18	20	16	16	18	20	24	22	20	16	17	17	20	42	20	15	28	42
3-Feb	20	17	16	20	20	24	26	24	16	19	48	49	34	51	29	17	22	19	18	16	16	15	15	16	51
4-Feb	16	28	20	18	15	19	15	16	16	17	16	19	23	20	19	18	18	16	16	14	14	14	16	15	28
5-Feb	74	24	25	25	18	23	28	30	25	24	26	19	17	32	28	21	19	17	16	14	17	30	23	32	74
6-Feb	40	28	34	25	20	26	33	23	22	21	27	20	18	19	22	23	24	14	18	21	16	32	22	48	48
7-Feb	17	29	45	34	59	41	78	60	26	37	33	21	33	27	20	20	23	21	20	19	24	20	20	18	78
8-Feb	18	25	28	27	24	27	40	34	27	44	33	46	32	29	22	25	28	40	16	19	13	18	18	21	46
9-Feb	24	17	17	21	50	91	40	34	20	31	30	27	50	23	27	17	20	21	14	17	14	13	14	16	91
10-Feb	17	18	23	22	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	10	9	10	23
11-Feb	12	11	12	14	15	14	14	15	15	16	18	16	16	20	20	20	19	12	10	12	13	15	15	16	20
12-Feb	15	14	15	15	16	15	21	34	20	17	18	18	21	21	20	17	13	14	13	14	16	21	19	19	34
13-Feb	18	15	16	17	18	16	16	16	18	77	26	22	24	22	21	25	22	17	15	11	8	11	10	11	77
14-Feb	11	10	11	11	12	12	12	9	14	16	18	17	19	19	33	19	19	19	17	17	23	26	27	10	33
15-Feb	10	13	12	18	13	11	15	70	19	20	17	18	19	16	16	18	18	20	16	12	10	11	11	31	70
16-Feb	11	14	16	25	70	48	66	33	14	40	35	33	31	26	28	24	19	12	12	11	11	12	14	15	70
17-Feb	16	21	17	18	18	17	18	17	19	17	18	19	19	20	18	20	22	21	21	21	21	20	22	22	22
18-Feb	23	22	22	21	23	24	24	24	28	31	31	25	27	27	33	20	15	16	16	28	17	18	19	11	33
19-Feb	9	6	9	10	13	11	10	11	12	21	21	19	24	25	23	27	21	13	14	11	11	10	10	12	27
20-Feb	12	11	9	11	7	7	8	9	10	20	20	19	43	93	39	9	14	27	9	10	13	13	15	18	93
21-Feb	14	17	16	13	15	19	18	18	21	28	29	20	28	29	20	21	23	18	18	16	12	16	15	21	29
22-Feb	27	16	9	19	16	16	15	13	15	29	23	26	27	27	25	23	21	22	22	21	19	23	21	19	29
23-Feb	25	16	18	23	31	43	55	51	28	27	68	39	74	25	44	15	43	21	18	19	UO	15	12	9	74
24-Feb	9	11	11	14	15	14	16	17	16	17	20	30	32	34	28	23	27	27	11	15	13	69	94	40	94
25-Feb	17	10	20	18	22	19	19	22	38	85	63	34	26	19	28	46	31	19	21	14	16	13	20	19	85
26-Feb	22	22	21	20	23	24	18	21	20	27	46	68	35	29	30	33	32	30	36	37	30	34	33	35	68
27-Feb	33	33	28	22	23	22	18	20	26	28	15	11	16	18	19	19	20	18	10	14	54	15	9	4	54
28-Feb	6	7	6	6	5	8	8	9	13	17	16	32	27	24	22	22	19	16	14	15	16	15	16	13	32
	74	33	45	34	70	91	78	70	38	85	68	68	74	93	44	46	43	40	36	37	54	69	94	48	
	Diurnal Maximum																								

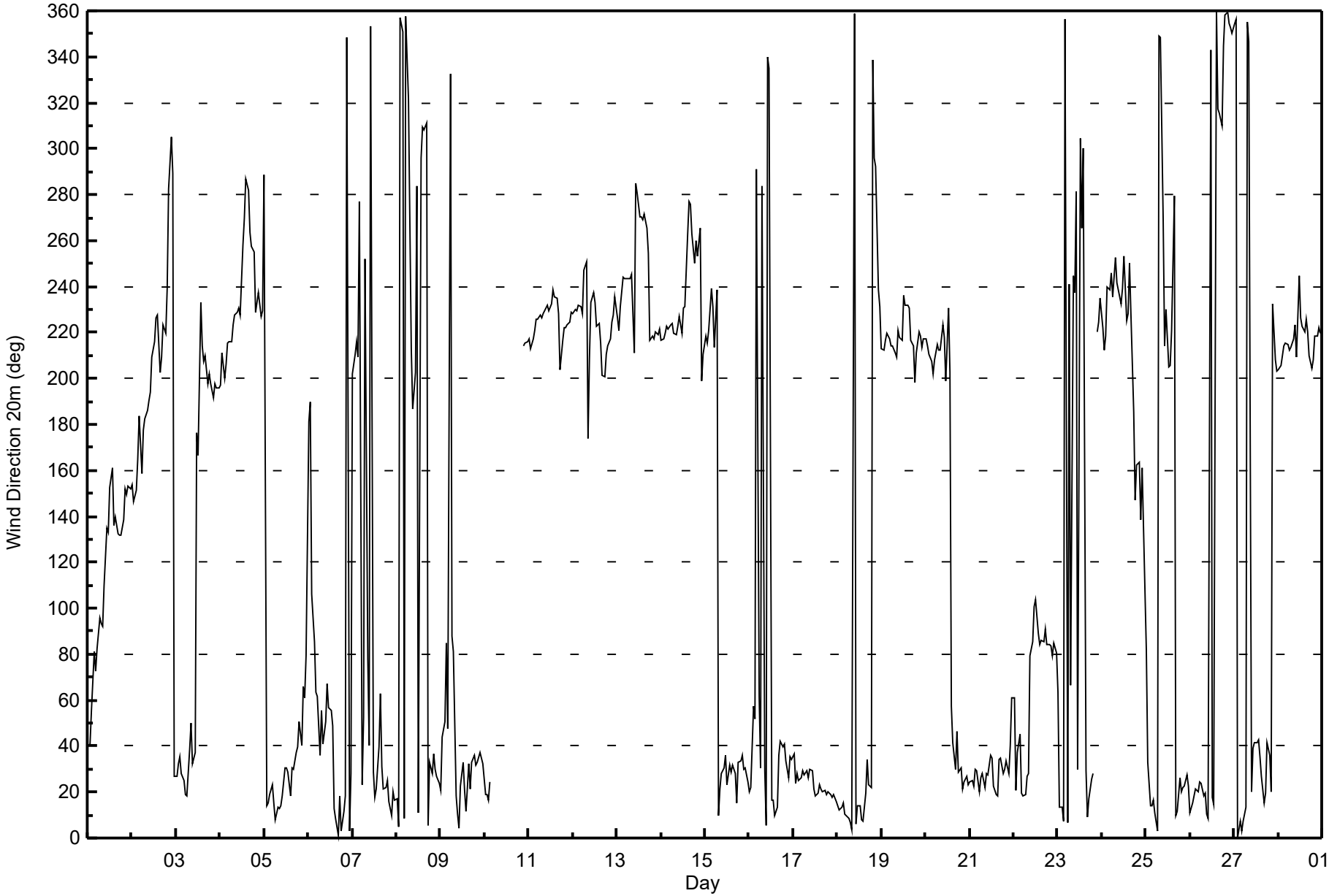
UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 20m (WD20) - deg

Janvier - February 2026



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS23
FORT HILLS
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FORT HILLS (AMS23)
FEBRUARY 2026

MONTHLY SUMMARY for
AMD SECTION III.B.1(c)

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-Min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2(ppb) Average	640	31	32	99.85	-	-	18.8	0	1.9	0
TRS(ppb) Average	639	32	33	99.85	7.6	2	5.3	0	1.4	0
THC(ppm) Average	640	31	32	99.85	-	-	9	-	3.9	-
NMHC(ppm) Average	640	31	32	99.85	-	-	1.732	-	0.524	-
CH4(ppm) Average	640	31	32	99.85	-	-	7.8	-	3.3	-
NO2 (ppb) Average	638	33	34	99.85	-	-	74.9	0	37.7	-
NO (ppb) Average	638	33	34	99.85	-	-	363.5	-	85.7	-
NOX (ppb) Average	638	33	34	99.85	-	-	438.4	-	120.2	-
PM2.5 (ug/m3) Average	671	1	1	100	-	-	67.2	0	18.6	0
Temperature 2 m (C) Average	672	0	0	100	-	-	9.5	-	0.2	-
Relative Humidity (%) Average	672	0	0	100	-	-	94.8	-	85.4	-
Wind Speed 10 m (km/h) Average	672	0	0	100	-	-	43	-	33	-
Wind Direction 10 m (deg) Average	672	0	0	100	-	-	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FORT HILLS (AMS23)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	640	0.5	1.1	-	0	0	0	0.2	0.5	1.3	18.8
TRS (ppb) Average	639	0.63	0.4	-	0.3	0.3	0.4	0.5	0.8	1	5.3
THC (ppm) Average	640	2.41	0.7	-	2	2	2	2.1	2.5	3.1	9
NMHC(ppm) Average	640	0.096	0.194	-	0	0	0	0	0.1	0.3	1.732
CH4(ppm) Average	640	2.32	0.6	-	2	2	2	2.1	2.4	2.8	7.8
NO2 (ppb) Average	638	17.17	11.5	-	0.6	4.6	7.6	14.5	25	33.1	74.9
NO (ppb) Average	638	18.52	35	-	0	0.4	1.7	4.9	19	49.8	363.5
NOX (ppb) Average	638	35.69	43.8	-	0.6	7	11	19.7	42.1	79.1	438.4
PM2.5 (ug/m3) Average	671	5.67	5	-	0.9	2.7	3.4	4.5	6.6	9	67.2
Temperature 2 m (C) Average	672	-15.8	9.2	-	-35.4	-27.9	-23	-15.4	-9.5	-4.1	9.5
Relative Humidity (%) Average	672	75.5	9.1	-	42.9	63.1	69.6	76.6	82.3	86	94.8
Wind Speed 10 m (km/h) Average	672	12.8	8	-	0	4	6	11	16	24	43
Wind Direction 10 m (deg) Average	672	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - FORT HILLS (AMS23)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
ALL GASEOUS ANALYZERS	11 Feb 2026 09:00	11 Feb 2026 09:00	1	Maintenance - sample manifold cleaned

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Fort Hills - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 18.8 ppb on Feb 2 04:00 Maximum Daily Average: 1.9 ppb on Feb 2

Minimum Value: 0.0 ppb on Feb 1 02:00 Minimum Daily Average: 0.0 ppb on Feb 5
Maximum Diurnal Average: 1.2 ppb at hour 4 Minimum Diurnal Average: 0.2 ppb at hour 6
Monthly Average: 0.50 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.2 Q_3 = 0.5 P_{90} = 1.3 P_{99} = 4.2

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	31
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.0	0.0	0.0	0.0	0.1	1.5	3.6	4.0	1.6	0.6	0.5	1.3	3.2	3.5	4.3	2.5	0.2	0.1	0.1	0.1	0.1	0.0	0.2	1.2	4.3
2-Feb	1.4	Z	2.1	18.8	1.1	0.5	2.1	1.6	1.0	0.7	2.4	2.5	1.3	0.5	0.4	0.3	0.6	0.7	1.0	1.3	1.2	0.6	0.5	0.3	1.9	18.8
3-Feb	0.3	0.2	Z	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.3	0.3	0.5	0.6	0.7	0.8	1.1	1.1	1.2	1.0	0.9	0.5	1.2
4-Feb	0.7	0.9	2.1	Z	0.6	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.1
5-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.3	0.5	0.7	0.4	0.6	0.8	0.3	0.4	0.7	1.6	2.3	2.4	1.8	1.3	1.0	0.8	0.7	1.1	0.8	2.4
7-Feb	Z	1.4	2.3	2.7	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.4	2.7
8-Feb	0.1	Z	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
9-Feb	0.1	0.1	Z	0.2	0.1	0.2	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.4
10-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.3	0.3	1.4	1.5	1.5	2.4	1.2	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.2	0.4	0.5	2.4
11-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	M	C	C	C	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.7	0.5	0.3	0.2	0.3	0.2	0.7
12-Feb	0.1	0.8	0.9	0.1	0.1	0.0	Z	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.4	0.6	0.2	0.2	0.2	0.3	1.4
13-Feb	Z	0.1	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.5	0.6	0.6	0.2	0.6
14-Feb	0.3	Z	0.3	0.4	1.0	0.5	0.6	0.8	1.2	0.9	0.7	0.8	1.0	1.1	0.9	1.5	0.6	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.6	1.5
15-Feb	0.1	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
16-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.4	1.2	1.0	0.7	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2
17-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2
19-Feb	Z	0.1	0.0	0.1	0.3	0.3	0.5	0.4	0.6	0.5	0.7	0.6	1.4	1.4	1.1	1.0	1.3	1.0	0.6	0.2	0.1	0.1	0.2	0.2	0.6	1.4
20-Feb	0.3	Z	0.8	0.6	0.6	0.5	0.3	0.3	0.2	0.3	0.3	0.4	1.3	4.2	4.4	1.0	0.3	0.3	0.8	1.3	1.5	1.8	1.5	1.2	1.0	4.4
21-Feb	0.9	0.9	Z	0.9	0.9	0.7	0.6	0.6	0.6	0.5	0.4	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.3	0.9
22-Feb	0.1	0.0	0.0	Z	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.4	0.4	0.4	0.3	0.2	0.4
23-Feb	0.1	0.5	0.5	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.5	1.8	1.6	0.9	0.9	0.7	0.4	0.5	0.4	0.3	0.3	0.2	0.4	1.8
24-Feb	0.2	0.7	2.6	2.7	2.2	Z	0.8	0.8	0.5	0.4	0.6	0.5	0.3	0.4	0.2	0.4	1.1	3.6	5.4	3.4	1.8	1.1	0.5	0.4	1.3	5.4
25-Feb	Z	0.1	0.2	0.3	0.4	0.6	0.8	0.5	0.4	1.0	0.8	1.1	2.2	2.7	3.9	4.0	4.4	3.7	2.8	0.5	0.5	0.6	0.5	0.4	1.4	4.4
26-Feb	0.5	Z	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5
27-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.0	0.0	0.2
28-Feb	0.0	0.3	0.4	Z	0.2	0.4	0.6	0.8	1.0	1.0	1.4	1.3	1.3	4.9	6.2	2.4	2.0	0.9	0.5	0.4	0.5	0.2	0.1	0.0	1.2	6.2
	0.2	0.3	0.6	1.2	0.4	0.2	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.9	0.9	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.3	0.3	Diurnal Average	
	1.4	1.4	2.6	18.8	2.2	0.7	2.1	3.6	4.0	1.6	2.4	2.5	2.2	4.9	6.2	4.3	4.4	3.7	5.4	3.4	1.8	1.8	1.5	1.2	Diurnal Maximum	

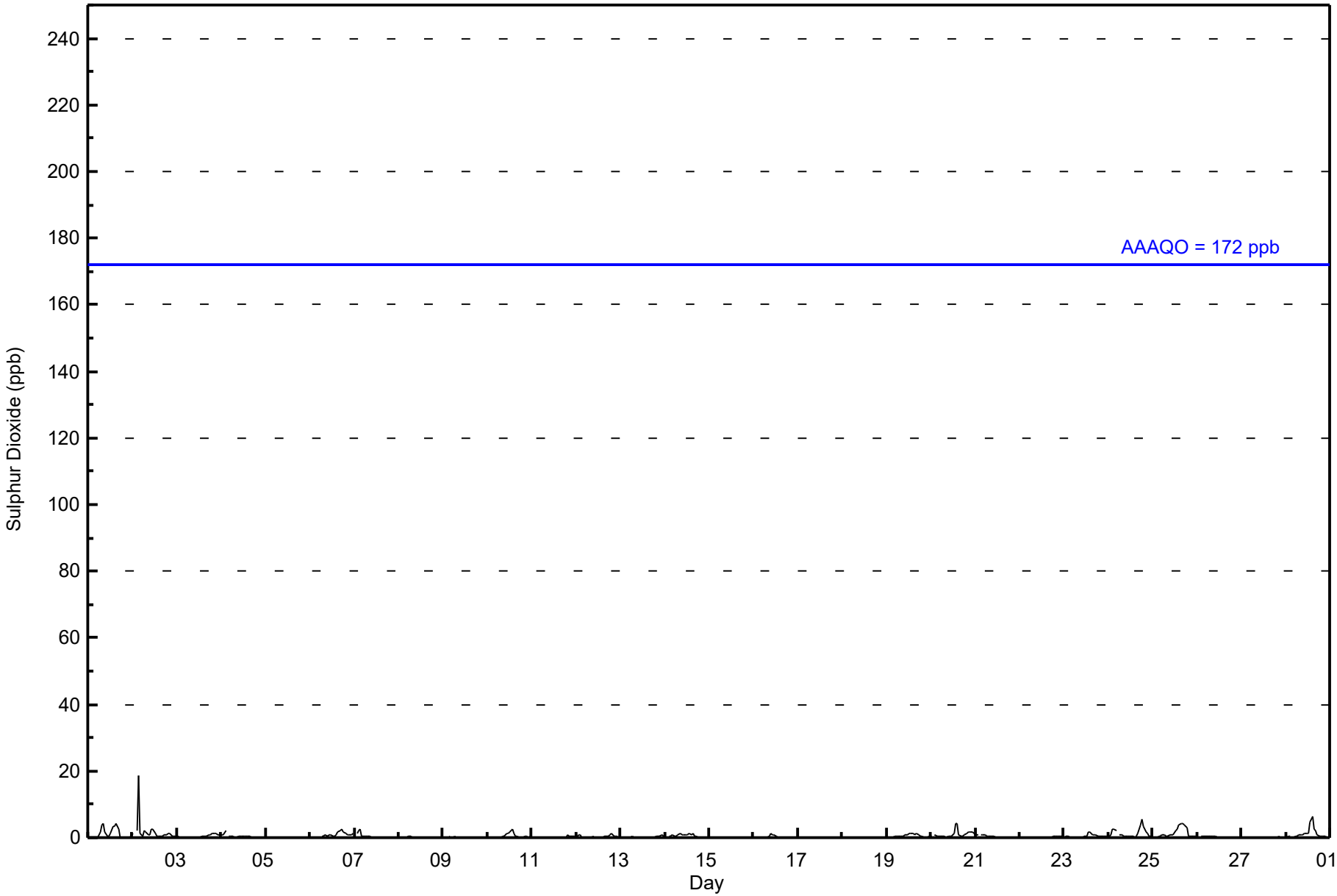
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Fort Hills - February 2026



Sulphur Dioxide (SO_2) - ppb
Fort Hills - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	639	99.84	99.84
11 - 20	1	0.16	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Fort Hills - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	152	120	33	7	8	17	52	80	46	47	19	1	5	4	15	33	639
11 - 20	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	152	120	33	7	8	17	52	80	47	47	19	1	5	4	15	33	640

Total Number of Valid Hours: 640

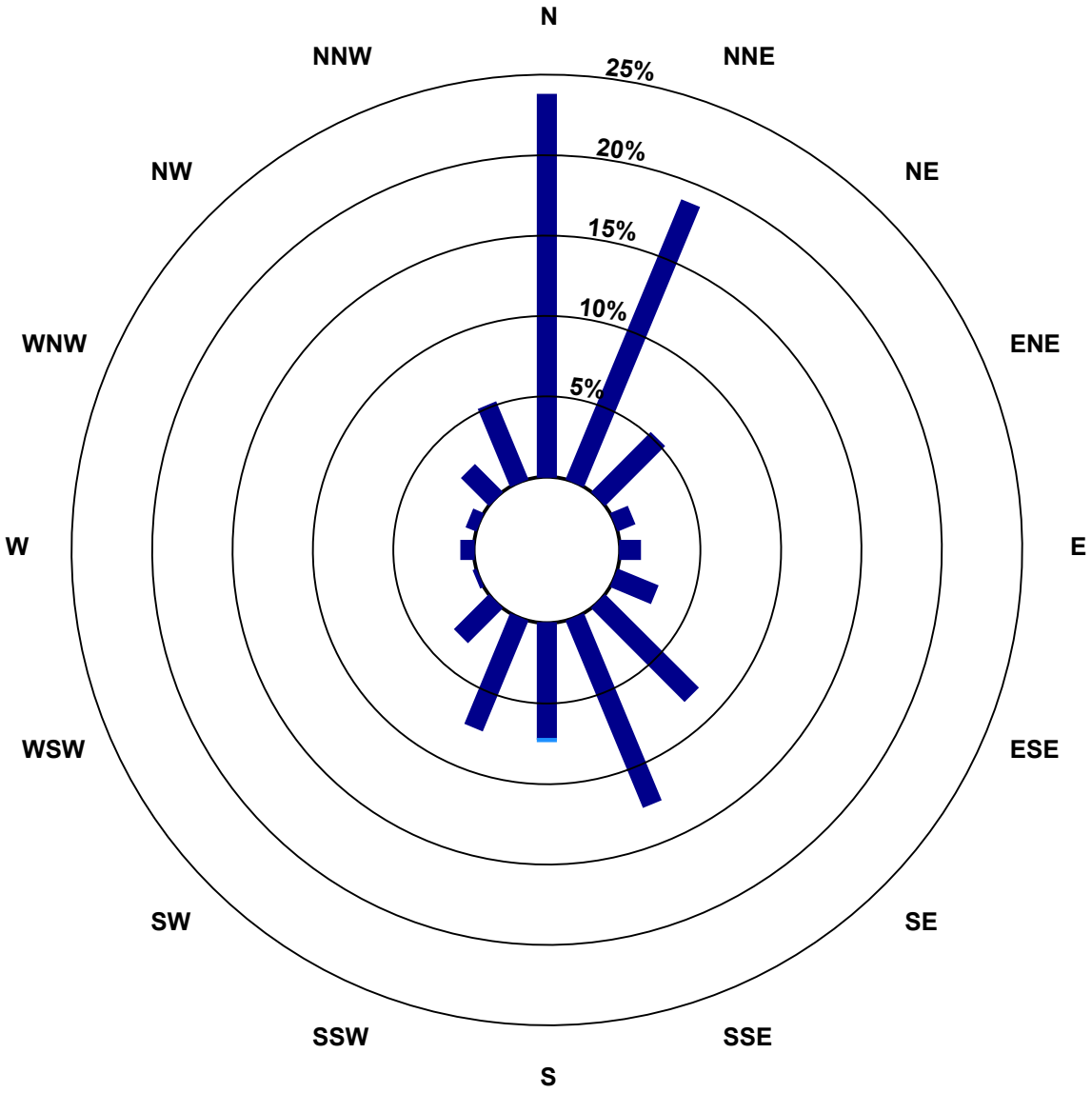
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Fort Hills



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

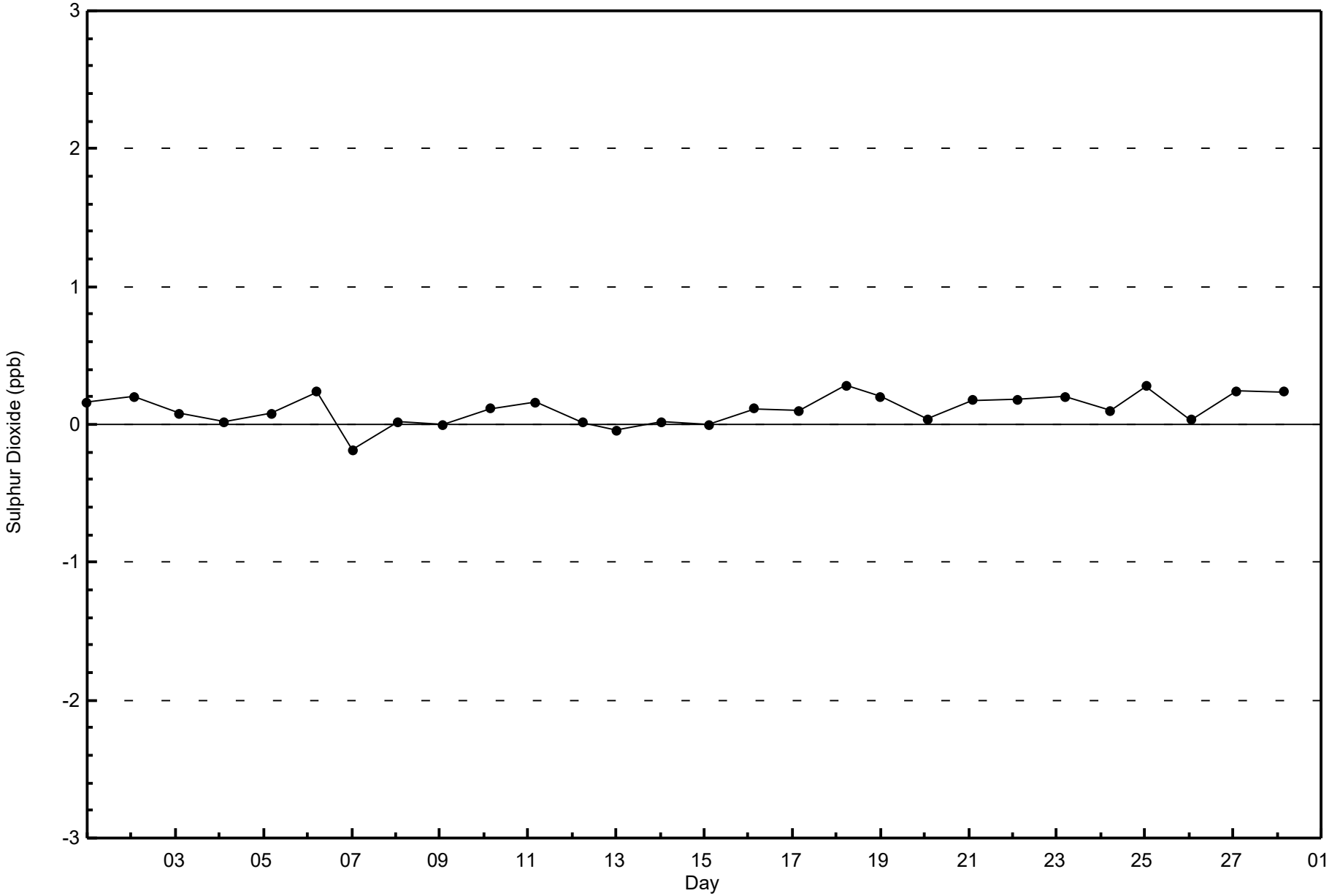
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Fort Hills - February 2026

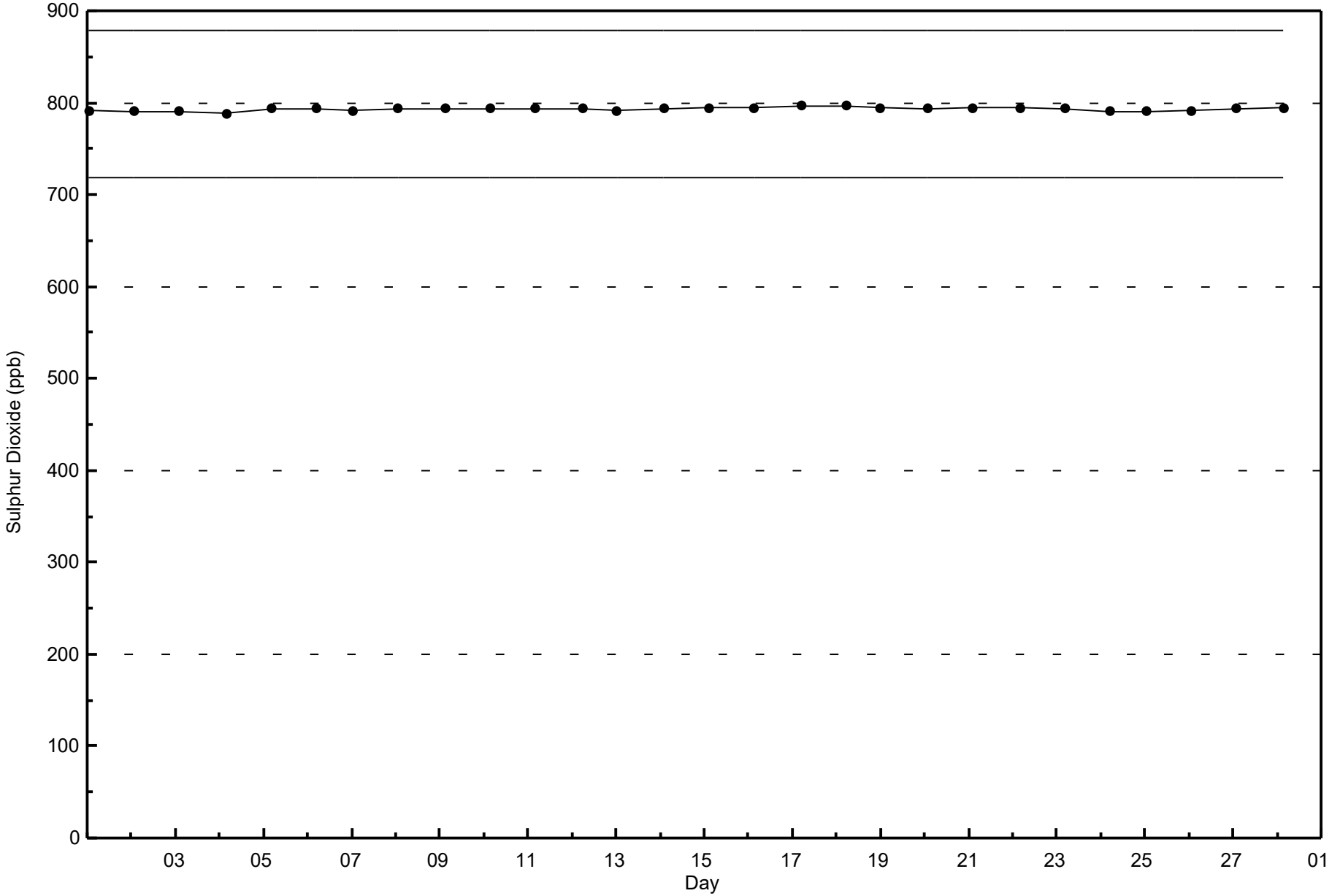


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Fort Hills - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Fort Hills - February 2026

Number of Exceedences (AAAQG): 30-Min: 2

Maximum Value: 7.6 ppb on Feb 24 02:30 Maximum Daily Average: 1.4 ppb on Feb 14

Minimum Value: 0.2 ppb on Feb 21 22:30 Minimum Daily Average: 0.3 ppb on Feb 17

Maximum Diurnal Average: 0.8 ppb at hour 3 Minimum Diurnal Average: 0.6 ppb at hour 1

Monthly Average: 0.63 ppb Percentiles: P_1 = 0.3 P_{10} = 0.3 Q_1 = 0.4 Median = 0.5 Q_3 = 0.7 P_{90} = 1.0 P_{99} = 2.1

Periods in Service:	1344
Periods of Valid Data:	1277
Periods of Invalid Data:	67
Periods of Calibration:	65
Percent Operational Time:	99.9

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.4	Z	0.4	0.8	0.5	0.5	0.4	0.5	0.8	0.5	0.4	0.4	0.4	0.5	0.4	0.6	0.6	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.8
	0.4	SP	0.4	0.4	0.7	0.4	0.5	0.6	0.6	0.4	0.4	0.4	0.4	0.5	0.6	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.3		
2-Feb	0.4	0.4	Z	0.9	0.4	0.3	0.5	0.5	0.4	0.4	0.4	0.6	0.5	0.6	0.7	0.7	0.7	0.9	1.0	0.8	1.0	0.6	0.6	0.5	0.6	1.0
	0.4	0.4	SP	0.5	0.3	0.4	0.5	0.4	0.4	0.4	0.6	0.5	0.6	0.6	0.6	0.6	1.0	0.9	0.9	1.0	0.7	0.6	0.5	0.5		
3-Feb	0.4	0.4	0.5	Z	0.5	0.4	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.8	0.7	0.8	0.8	0.8	0.9	0.7	0.9	1.2	1.0	1.0	0.7	1.2
	0.4	0.4	0.5	SP	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.8	0.6	0.8	0.8	1.0	0.8	0.8	0.9	1.2	1.1	0.8		
4-Feb	0.7	0.4	0.5	0.8	Z	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.5	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.9
	0.6	0.4	0.5	0.9	SP	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4		
5-Feb	0.5	0.4	0.4	0.4	0.4	Z	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
	0.4	0.4	0.4	0.3	0.4	SP	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5		
6-Feb	Z	0.4	0.5	0.5	0.5	0.5	0.6	0.8	0.8	0.8	0.7	0.7	0.6	1.0	0.9	0.9	0.8	0.8	0.9	0.9	1.0	1.2	1.0	1.5	0.8	3.3
	SP	0.4	0.5	0.6	0.5	0.5	0.7	0.7	0.8	0.7	0.8	0.7	0.6	1.2	1.0	0.7	0.9	0.8	0.9	1.0	1.3	1.0	0.8	3.3		
7-Feb	2.1	Z	0.6	0.6	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	2.1
	1.8	SP	0.7	0.5	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3		
8-Feb	0.3	0.3	Z	0.4	0.4	0.4	0.5	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.5
	0.4	0.3	SP	0.3	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
9-Feb	0.4	0.4	0.6	Z	0.6	0.6	0.6	0.6	0.5	0.8	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.8
	0.4	0.5	0.6	SP	0.6	0.6	0.6	0.5	0.7	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5		
10-Feb	0.5	0.4	0.4	0.4	Z	0.4	0.4	C	C	C	C	C	0.7	0.9	0.7	0.7	1.0	0.6	0.6	0.6	0.7	1.8	0.6	1.3	0.7	1.8
	0.4	0.4	0.4	0.4	SP	0.4	0.4	C	C	C	C	0.8	0.8	0.8	0.9	0.9	0.6	0.6	0.6	0.6	1.3	0.9	1.4	1.2		
11-Feb	0.6	0.6	0.7	0.6	0.9	Z	0.6	0.5	M	0.4	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.5	1.2	1.1	0.6	0.6	0.7	0.6	1.6
	0.6	0.7	0.5	0.7	1.0	SP	0.6	0.4	M	0.4	0.5	0.6	0.6	0.4	0.4	0.4	0.4	0.5	0.6	1.6	0.7	0.6	0.7	0.6		
12-Feb	Z	1.0	5.4	1.1	0.7	1.2	0.4	0.3	0.4	1.5	0.4	1.7	0.6	0.4	0.4	0.9	0.9	0.7	0.7	2.1	0.8	0.8	0.9	0.5	1.0	5.4
	SP	3.6	1.6	0.6	1.3	1.0	0.4	0.4	0.4	1.4	0.8	0.5	0.4	0.4	0.5	0.8	0.9	0.7	1.0	1.5	0.8	0.9	0.7	0.5		
13-Feb	1.1	Z	0.8	0.4	0.5	0.5	0.5	0.9	1.7	0.8	0.8	0.8	0.5	0.4	0.6	0.5	0.5	0.9	0.8	0.8	0.7	0.7	0.8	0.8	0.7	1.7
	1.2	SP	0.5	0.4	0.4	0.5	0.6	1.2	1.1	1.1	0.9	0.8	0.4	0.6	0.5	0.5	1.1	0.6	0.8	0.8	0.7	0.7	0.8	0.8		
14-Feb	0.7	0.8	Z	4.9	4.9	3.3	1.9	1.7	1.3	1.0	0.8	1.0	1.3	2.0	1.7	1.9	1.4	0.8	0.6	0.5	0.5	0.5	0.6	0.6	1.4	4.9
	0.7	0.7	SP	1.9	4.4	2.8	2.1	1.6	1.1	1.1	0.9	1.1	1.8	1.9	1.7	2.1	0.9	0.8	0.5	0.5	0.5	0.5	0.5	0.5		
15-Feb	0.5	0.5	0.6	Z	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.7
	0.5	0.5	0.7	SP	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5		

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Fort Hills - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	0.4	0.4	0.4	0.4	Z	0.4	0.5	0.5	0.5	0.8	1.0	0.8	0.7	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.5	1.0
	0.5	0.5	0.4	0.4	SP	0.4	0.5	0.4	0.7	1.0	0.9	0.9	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
17-Feb	0.3	0.4	0.4	0.4	0.4	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
	0.4	0.3	0.4	0.4	0.4	SP	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3		
18-Feb	Z	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.6	0.4	0.6
	SP	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.5	0.4		
19-Feb	0.5	Z	0.4	0.4	0.6	1.0	1.3	0.8	0.7	0.9	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.6	1.0	0.6	0.7	0.5	0.6	0.8	0.7	1.3
	0.4	SP	0.4	0.5	0.9	1.1	1.0	0.8	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.9	0.6	0.6	0.7	0.5	0.6	1.0		
20-Feb	1.1	1.0	Z	1.1	1.1	1.2	1.0	1.0	0.7	1.0	1.1	1.0	1.3	1.1	1.0	1.2	0.7	0.4	0.5	0.5	0.4	0.5	0.4	0.4	0.8	1.4
	1.0	1.1	SP	1.1	1.2	1.3	0.9	0.9	0.9	1.1	1.0	1.1	1.0	1.0	1.4	0.7	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.5		
21-Feb	0.4	0.4	0.5	Z	0.6	0.6	0.6	0.7	0.7	0.7	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.7
	0.4	0.5	0.4	SP	0.5	0.6	0.7	0.6	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4		
22-Feb	0.3	0.3	0.3	0.3	Z	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.4	0.4	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.5	0.4	0.7
	0.3	0.3	0.3	0.3	SP	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.5	0.5	0.4	0.5	0.5	0.5	0.6	0.5	0.5	0.5		
23-Feb	0.4	0.5	0.7	0.3	0.4	Z	0.3	0.3	0.3	0.4	0.4	0.6	0.8	1.0	0.8	0.8	0.6	0.7	0.8	0.8	0.8	0.8	0.7	0.6	0.6	1.2
	0.4	0.7	0.4	0.4	0.3	SP	0.4	0.3	0.3	0.4	0.7	0.7	0.8	0.9	1.2	0.6	0.6	0.9	0.9	0.8	0.8	0.7	0.7	0.6		
24-Feb	Z	0.6	7.6	2.6	2.1	2.0	1.5	1.4	1.4	1.2	0.9	1.1	0.8	0.9	0.7	0.6	0.7	0.9	0.9	0.8	1.0	1.2	0.8	0.8	1.3	7.6
	SP	2.0	3.0	2.4	1.9	1.6	1.4	1.5	1.2	0.8	1.4	1.1	0.9	0.9	0.6	0.7	0.8	0.9	0.8	0.8	0.9	1.4	1.0	0.8		
25-Feb	0.6	Z	0.6	0.7	0.7	0.8	0.8	0.8	0.6	0.6	1.1	1.9	1.2	1.0	1.0	1.0	0.9	1.2	1.1	0.5	0.6	0.4	0.4	0.4	0.8	1.9
	0.5	SP	0.6	0.7	0.8	0.8	1.0	0.7	0.6	0.7	1.3	1.6	1.1	1.3	1.5	0.9	1.1	1.2	0.8	0.5	0.5	0.4	0.4	0.4		
26-Feb	0.4	0.5	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.6
	0.4	0.6	SP	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3		
27-Feb	0.4	0.4	0.4	Z	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.6
	0.3	0.4	0.4	SP	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.4	0.5	0.6	0.5	0.5	0.5		
28-Feb	0.5	0.5	0.8	0.7	Z	1.0	1.2	1.5	0.8	0.8	0.9	0.7	0.6	0.8	0.8	0.5	0.5	0.6	0.6	0.5	0.7	0.8	1.1	1.3	0.8	1.6
	0.4	0.8	0.7	0.7	SP	1.1	1.3	1.6	0.8	0.9	0.8	0.7	0.7	0.8	0.7	0.5	0.5	0.5	0.5	0.7	0.9	0.9	1.1	1.1		
	0.6	0.6	0.8	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	Diurnal Average	
	2.1	3.6	7.6	4.9	4.9	3.3	2.1	1.7	1.7	1.5	1.4	1.9	1.8	2.0	1.7	2.1	1.4	1.2	1.1	2.1	1.3	1.8	1.4	3.3	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Fort Hills - February 2026

Maximum Value: 5.3 ppb on Feb 24 03:00

Maximum Daily Average: 1.4 ppb on Feb 14

Minimum Value: 0.3 ppb on Feb 21 21:00

Minimum Daily Average: 0.3 ppb on Feb 17

Maximum Diurnal Average: 0.8 ppb at hour 3

Minimum Diurnal Average: 0.6 ppb at hour 1

Monthly Average: 0.63 ppb

Percentiles: P_1 = 0.3 P_{10} = 0.3 Q_1 = 0.4 Median = 0.5 Q_3 = 0.8 P_{90} = 1.0 P_{99} = 2.4

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.4	Z	0.4	0.6	0.6	0.4	0.4	0.6	0.7	0.5	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.7
2-Feb	0.4	0.4	Z	0.7	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.6	0.8	0.9	1.0	0.9	0.9	0.6	0.5	0.5	0.6	1.0
3-Feb	0.4	0.4	0.5	Z	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.6	0.8	0.8	0.9	0.9	0.8	0.9	1.2	1.1	0.9	0.7	1.2
4-Feb	0.6	0.4	0.5	0.8	Z	0.5	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.8
5-Feb	0.4	0.4	0.4	0.4	0.4	Z	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5
6-Feb	Z	0.4	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.8	0.8	0.7	0.6	1.1	0.9	0.8	0.8	0.8	0.9	0.9	1.2	1.1	0.9	2.4	0.8	2.4
7-Feb	1.9	Z	0.6	0.5	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.5	1.9
8-Feb	0.3	0.3	Z	0.3	0.4	0.5	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
9-Feb	0.4	0.5	0.6	Z	0.6	0.6	0.6	0.6	0.6	0.7	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.7
10-Feb	0.4	0.4	0.4	0.4	Z	0.4	0.4	C	C	C	C	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6	1.0	1.3	1.0	1.2	0.7	1.3
11-Feb	0.6	0.6	0.6	0.7	1.0	Z	0.6	0.5	M	0.4	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.5	0.5	1.4	0.9	0.6	0.6	0.6	0.6	1.4
12-Feb	Z	2.3	3.5	0.9	1.0	1.1	0.4	0.4	0.4	1.4	0.6	1.1	0.5	0.4	0.4	0.9	0.9	0.7	0.8	1.8	0.8	0.9	0.8	0.5	1.0	3.5
13-Feb	1.1	Z	0.6	0.4	0.5	0.5	0.5	1.1	1.4	1.0	0.9	0.8	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.7	1.4
14-Feb	0.7	0.8	Z	3.4	4.7	3.1	2.0	1.6	1.2	1.0	0.9	1.0	1.6	2.0	1.7	2.0	1.2	0.8	0.6	0.5	0.5	0.5	0.6	0.5	1.4	4.7
15-Feb	0.5	0.5	0.6	Z	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.6
16-Feb	0.5	0.4	0.4	0.4	Z	0.4	0.5	0.4	0.6	0.9	1.0	0.8	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.5	1.0
17-Feb	0.4	0.3	0.4	0.4	0.4	Z	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
18-Feb	Z	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.4	0.5	0.4	0.5
19-Feb	0.4	Z	0.4	0.4	0.8	1.0	1.2	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.7	0.8	0.6	0.7	0.5	0.6	0.9	0.7	1.2
20-Feb	1.0	1.0	Z	1.1	1.1	1.2	1.0	1.0	0.8	1.0	1.0	1.0	1.1	1.1	1.2	1.0	0.6	0.4	0.5	0.5	0.4	0.5	0.4	0.4	0.8	1.2
21-Feb	0.4	0.4	0.5	Z	0.5	0.6	0.6	0.7	0.7	0.6	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.7
22-Feb	0.3	0.3	0.3	0.3	Z	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.6
23-Feb	0.4	0.6	0.6	0.4	0.3	Z	0.3	0.3	0.3	0.4	0.6	0.7	0.8	0.9	1.0	0.7	0.6	0.8	0.9	0.8	0.8	0.8	0.7	0.6	0.6	1.0
24-Feb	Z	1.3	5.3	2.5	2.0	1.8	1.5	1.4	1.3	1.0	1.2	1.1	0.8	0.9	0.7	0.7	0.8	0.9	0.8	0.8	0.9	1.3	0.9	0.8	1.3	5.3
25-Feb	0.5	Z	0.6	0.7	0.8	0.8	0.9	0.7	0.6	0.7	1.2	1.7	1.1	1.1	1.2	1.0	1.0	1.2	0.9	0.5	0.5	0.4	0.4	0.4	0.8	1.7
26-Feb	0.4	0.5	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5
27-Feb	0.4	0.4	0.4	Z	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.5
28-Feb	0.4	0.6	0.8	0.7	Z	1.0	1.2	1.5	0.8	0.9	0.9	0.7	0.7	0.8	0.8	0.5	0.5	0.6	0.5	0.6	0.8	0.8	1.1	1.2	0.8	1.5
	0.6	0.6	0.8	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	Diurnal Average	
	1.9	2.3	5.3	3.4	4.7	3.1	2.0	1.6	1.4	1.4	1.2	1.7	1.6	2.0	1.7	2.0	1.2	1.2	1.0	1.8	1.2	1.3	1.1	2.4	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

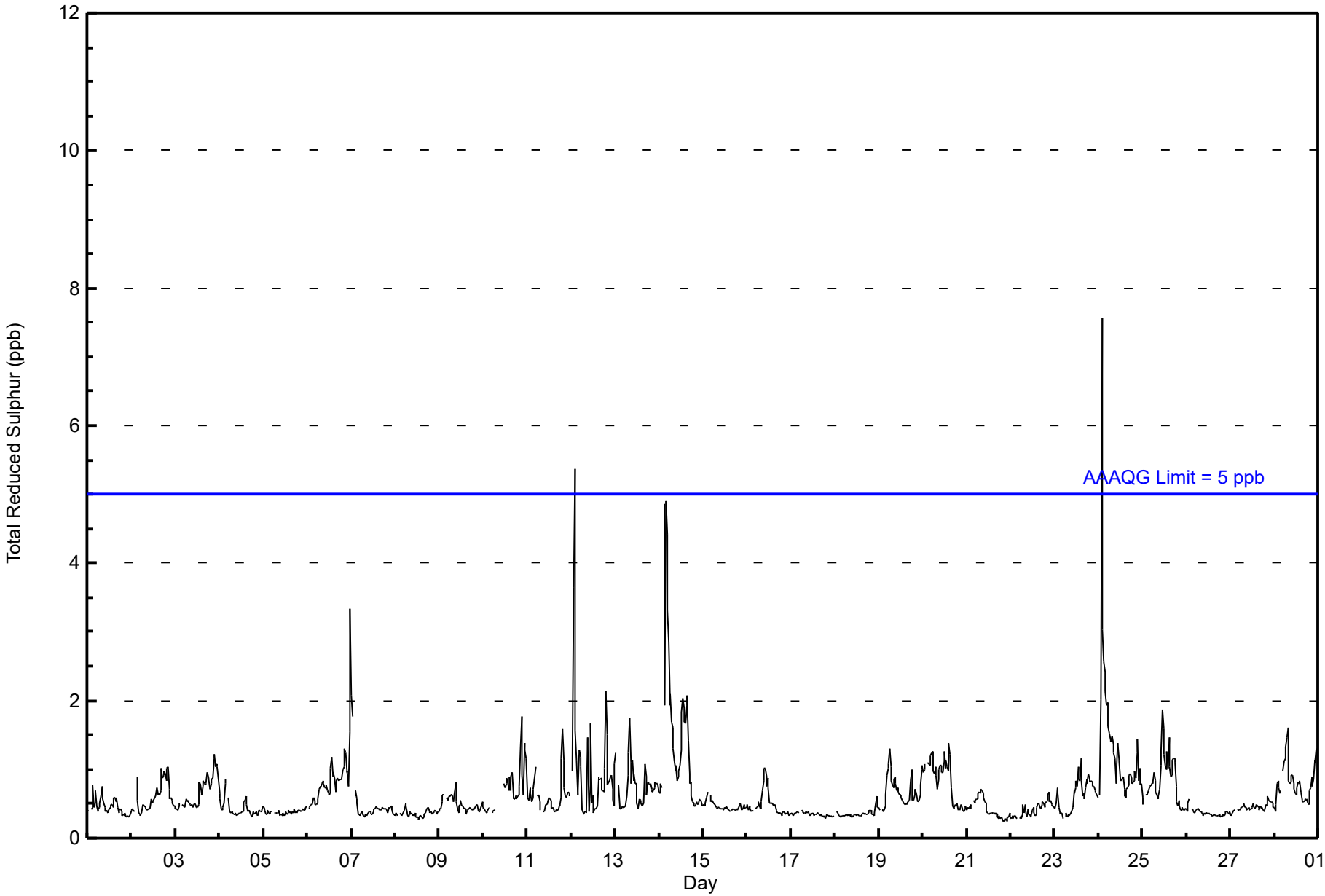
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Fort Hills - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	634	99.22	99.22
3 - 4	3	0.47	99.69
5 - 7	2	0.31	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Fort Hills - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	151	122	33	7	8	14	50	81	48	44	18	1	7	3	15	32	634
3 - 4	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	3
5 - 7	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	151	122	33	7	8	15	53	82	48	44	18	1	7	3	15	32	639

Total Number of Valid Hours: 639

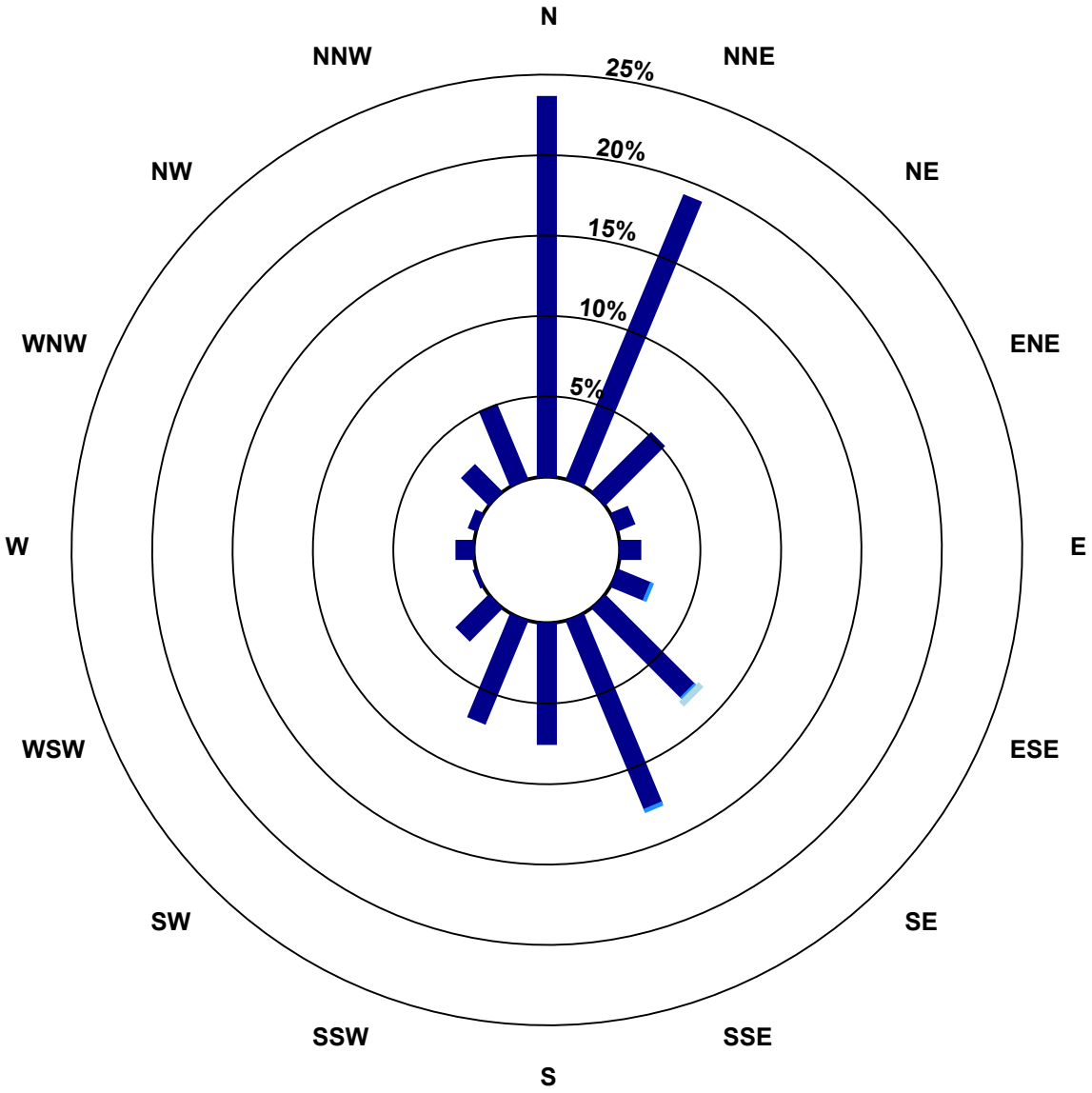
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Fort Hills



Classes (ppb)

- 0 - 2
- 3 - 4
- 5 - 7
- 8 - 11
- > 11

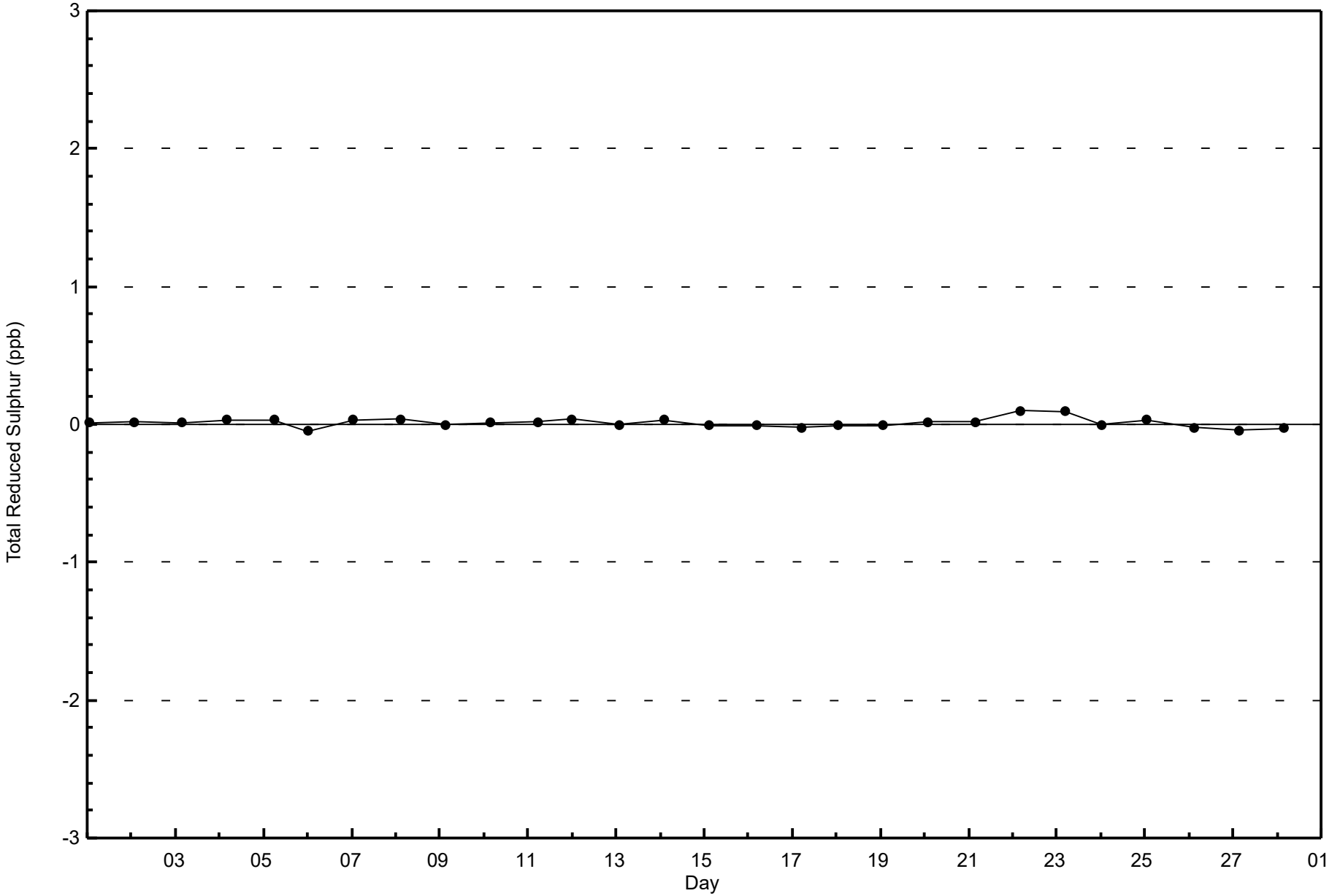
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Fort Hills - February 2026

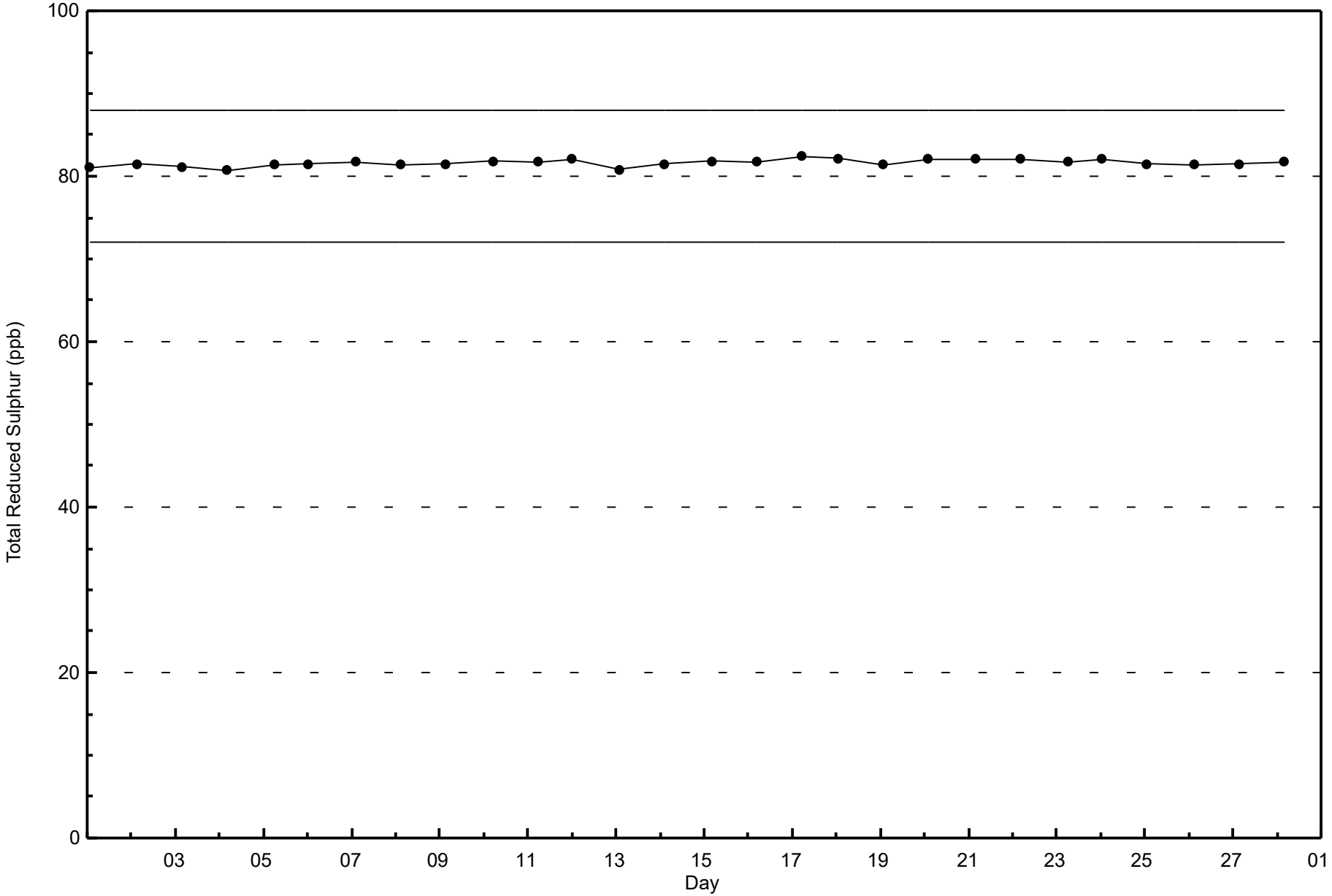


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Fort Hills - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Fort Hills - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 9.0 ppm on Feb 24 04:00

Maximum Daily Average: 3.9 ppm on Feb 24

Minimum Value: 2.0 ppm on Feb 12 14:00

Minimum Daily Average: 2.0 ppm on Feb 17

Maximum Diurnal Average: 2.7 ppm at hour 3

Minimum Diurnal Average: 2.2 ppm at hour 1

Monthly Average: 2.41 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.0 Median = 2.1 Q_3 = 2.5 P_{90} = 3.1 P_{99} = 4.9

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	31
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.0	2.0	2.1	2.3	2.1	2.0	2.1	2.7	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.7
2-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.4	2.8	3.6	3.3	3.6	2.4	2.2	2.3	2.3	3.6
3-Feb	2.1	2.2	Z	2.1	2.1	2.1	2.1	2.2	2.1	2.0	2.1	2.0	2.0	2.9	2.9	2.8	2.7	2.8	2.8	2.6	2.7	3.2	2.9	3.3	2.5	3.3
4-Feb	2.3	2.0	2.1	Z	3.4	2.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.0	2.3	2.2	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.2	3.4
5-Feb	2.1	2.1	2.1	2.1	Z	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
6-Feb	2.1	2.1	2.3	2.4	2.3	Z	2.7	3.3	3.6	3.0	2.7	2.5	2.3	3.2	3.5	2.7	3.1	3.1	3.1	3.6	4.4	4.2	4.0	4.6	3.1	4.6
7-Feb	Z	4.5	2.4	2.3	2.1	2.0	2.0	2.1	2.0	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.2	4.5
8-Feb	2.4	Z	2.2	2.3	2.2	2.7	2.5	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.5	2.3	2.2	2.2	2.0	2.0	2.0	2.2	2.7
9-Feb	2.1	2.1	Z	2.2	2.1	2.1	2.5	2.4	2.2	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.5
10-Feb	2.4	2.3	2.2	Z	2.2	2.2	2.2	2.2	2.8	3.2	3.0	2.6	2.1	2.2	2.5	2.5	2.7	2.1	2.2	2.2	3.0	3.1	2.7	3.8	2.5	3.8
11-Feb	2.2	2.5	2.3	2.2	Z	2.2	2.1	2.1	M	C	C	C	2.0	2.0	2.0	2.0	2.0	2.1	2.3	4.9	3.8	3.0	3.0	3.0	2.5	4.9
12-Feb	2.5	3.9	4.6	3.1	2.6	2.7	Z	2.0	2.0	2.4	2.1	2.4	2.0	2.0	2.0	2.2	2.4	2.3	2.4	3.5	2.1	2.3	2.6	2.2	2.5	4.6
13-Feb	Z	2.9	2.3	2.0	2.1	2.1	2.0	2.6	2.6	2.7	2.5	2.6	2.2	2.1	2.4	2.4	2.6	2.6	2.5	3.0	3.9	3.9	3.5	3.4	2.6	3.9
14-Feb	2.8	Z	3.0	4.6	5.9	4.5	4.2	4.4	4.9	4.4	3.9	3.8	4.2	4.5	4.4	5.6	3.8	2.6	2.3	2.2	2.5	2.8	2.4	2.2	3.7	5.9
15-Feb	2.0	2.0	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.2	2.3	2.2	2.1	2.5
16-Feb	2.3	2.5	2.2	Z	2.2	2.3	2.2	2.1	3.2	5.1	4.0	3.4	2.7	2.2	2.2	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5	5.1
17-Feb	2.1	2.0	2.1	2.0	Z	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
18-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.0	2.1	2.4	2.0	2.4
19-Feb	Z	2.0	2.0	2.0	2.2	2.3	2.4	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.7	2.9	2.2	2.2	2.1	2.2	2.3	2.2	2.9
20-Feb	2.5	Z	2.5	2.4	2.2	2.4	2.3	2.2	2.3	2.5	2.5	2.5	2.5	2.5	2.9	2.9	2.2	2.3	2.4	2.1	2.1	2.1	2.1	2.3	2.4	2.9
21-Feb	2.2	2.2	Z	2.4	2.0	2.2	2.2	2.3	2.7	2.5	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.7
22-Feb	2.1	2.0	2.0	Z	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.4	2.3	2.3	2.4	2.6	2.9	2.7	2.2	2.9
23-Feb	2.3	2.7	3.2	2.2	Z	2.0	2.0	2.1	2.0	2.0	2.2	2.2	2.2	2.4	2.4	2.5	2.5	2.5	2.6	2.5	2.6	2.6	2.6	2.3	2.4	3.2
24-Feb	2.3	3.6	8.8	9.0	7.2	Z	3.9	3.5	3.2	2.6	3.1	3.3	2.9	3.1	2.8	2.7	2.9	3.1	3.6	3.4	3.5	4.3	3.3	2.9	3.9	9.0
25-Feb	Z	2.3	2.4	2.4	2.4	2.5	2.9	3.3	2.7	2.5	3.2	3.4	2.9	3.0	2.7	2.7	3.3	3.1	2.7	2.1	2.1	2.1	2.1	2.1	2.6	3.4
26-Feb	2.1	Z	2.1	2.3	2.0	2.1	2.1	2.1	2.2	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.3
27-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.1
28-Feb	2.0	3.1	3.1	Z	2.2	2.4	2.7	2.7	2.4	2.6	2.4	2.2	2.2	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.6	2.3	2.3	2.3	2.3	3.1
	2.2	2.5	2.7	2.6	2.6	2.3	2.4	2.4	2.4	2.5	2.4	2.4	2.3	2.3	2.4	2.4	2.3	2.3	2.4	2.5	2.5	2.5	2.4	2.5	Diurnal Average	
	2.8	4.5	8.8	9.0	7.2	4.5	4.2	4.4	4.9	5.1	4.0	3.8	4.2	4.5	4.4	5.6	3.8	3.1	3.6	4.9	4.4	4.3	4.0	4.6	Diurnal Maximum	

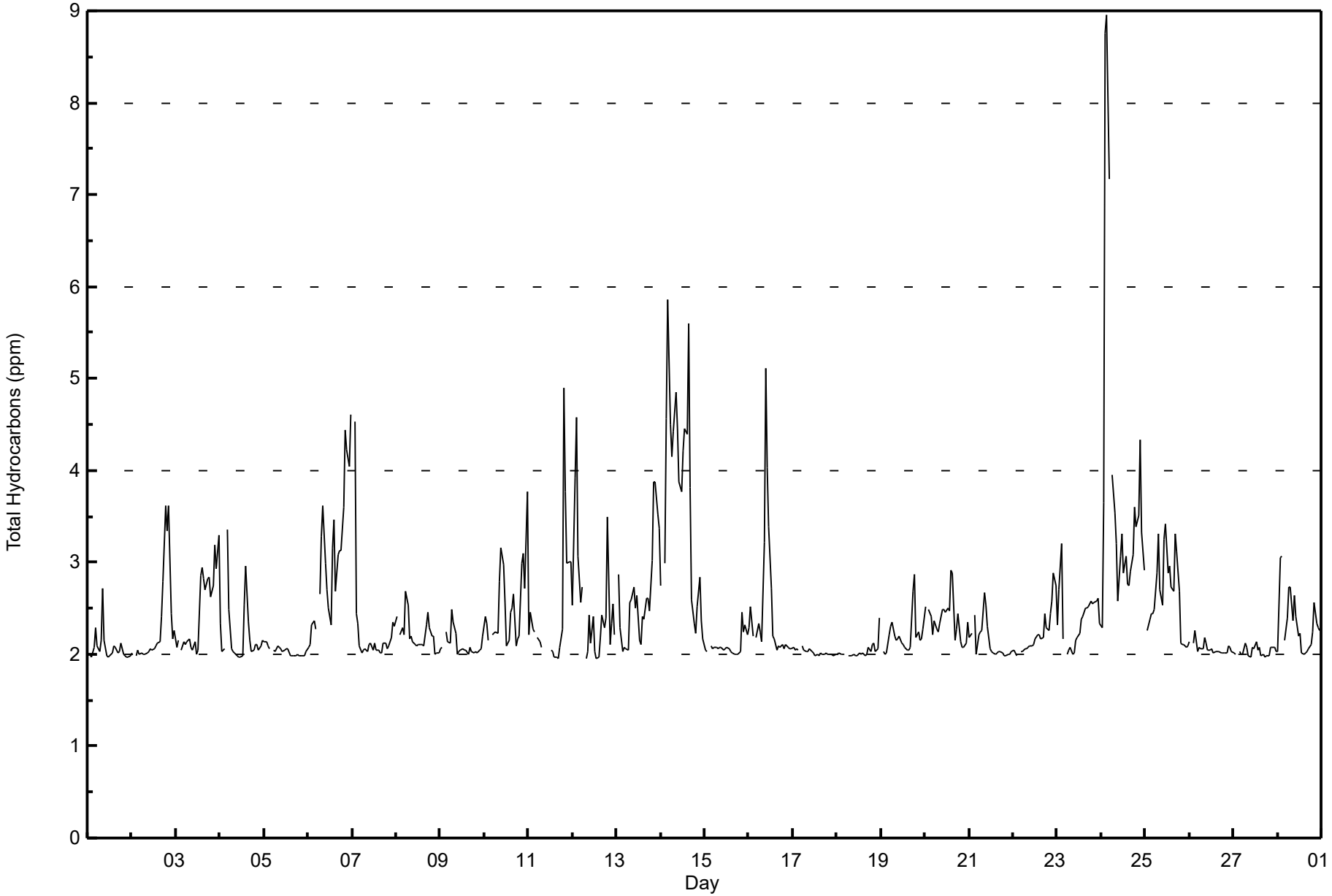
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Fort Hills - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	188	29.38	29.38
2.1 - 3.0	378	59.06	88.44
3.1 - 10.0	74	11.56	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Fort Hills - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	62	38	22	3	1	3	2	20	24	10	2	0	0	1	0	0	188
2.1 - 3.0	79	77	11	4	5	11	35	48	21	29	14	0	4	2	14	24	378
3.1 - 10.0	11	5	0	0	2	3	15	12	2	8	3	1	1	1	1	9	74
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	152	120	33	7	8	17	52	80	47	47	19	1	5	4	15	33	640

Total Number of Valid Hours: 640

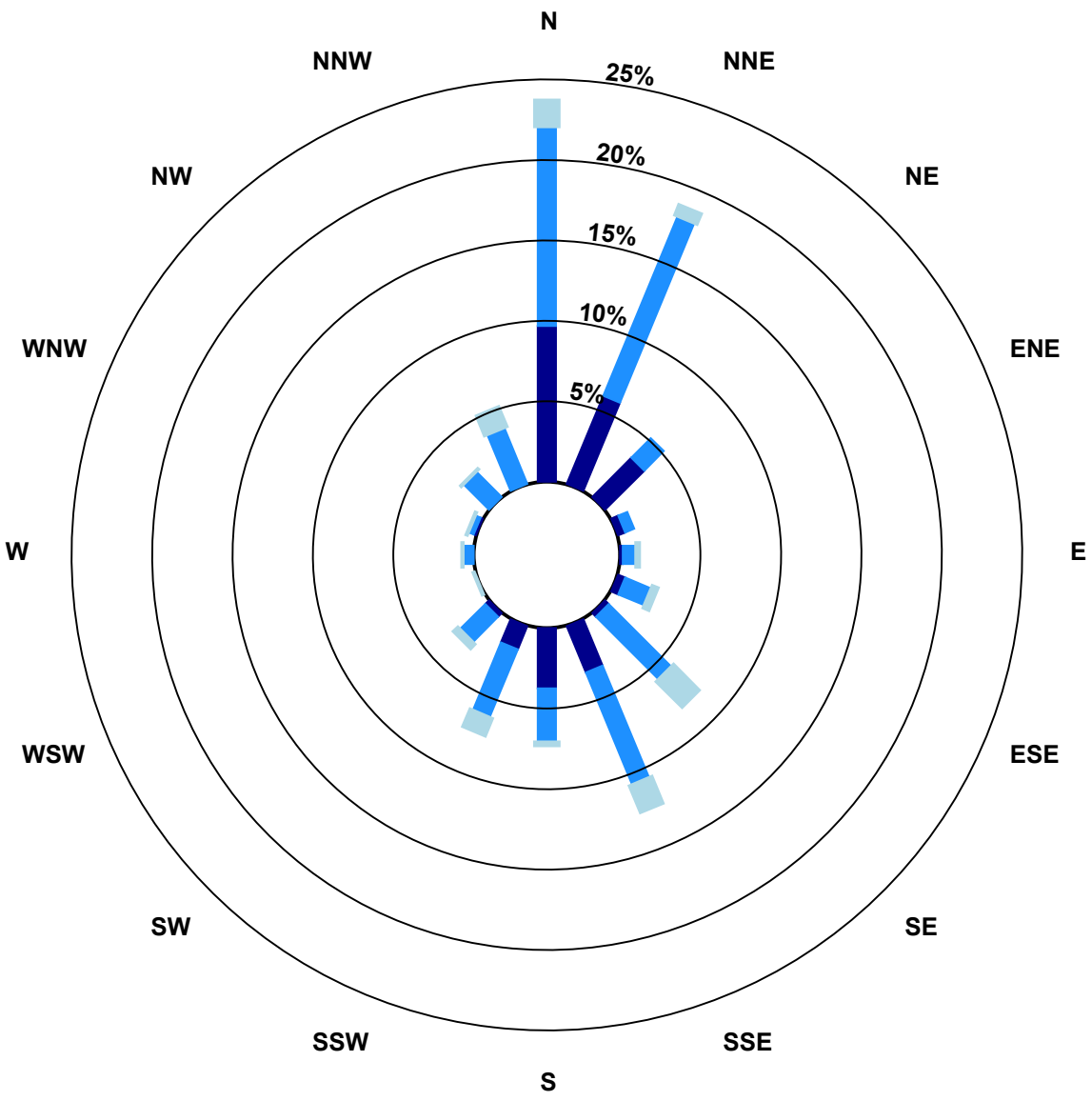
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Fort Hills



Classes (ppm)

- 0 - 2.0
- 2.1 - 3.0
- 3.1 - 10.0
- > 10.0

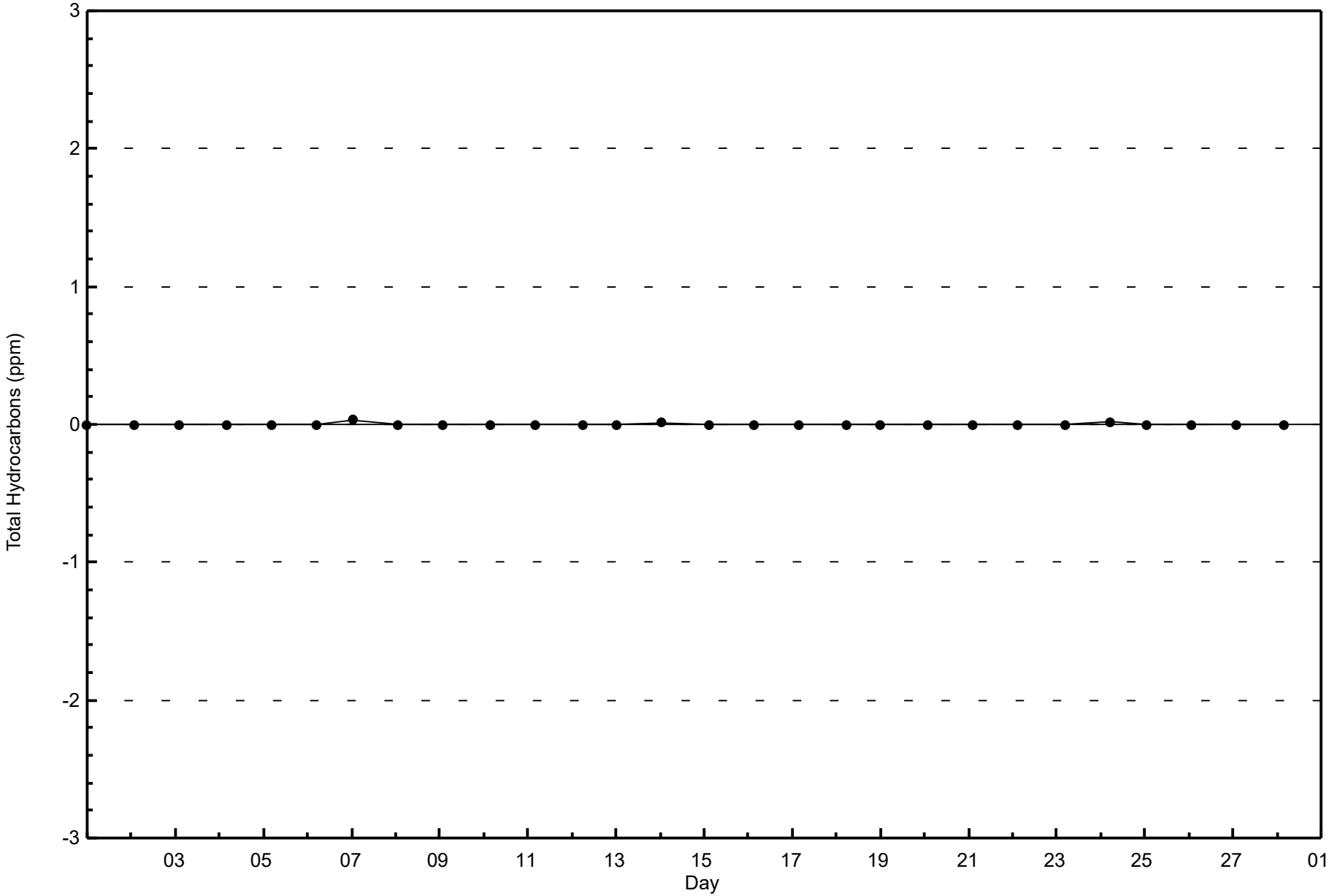
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Fort Hills - February 2026

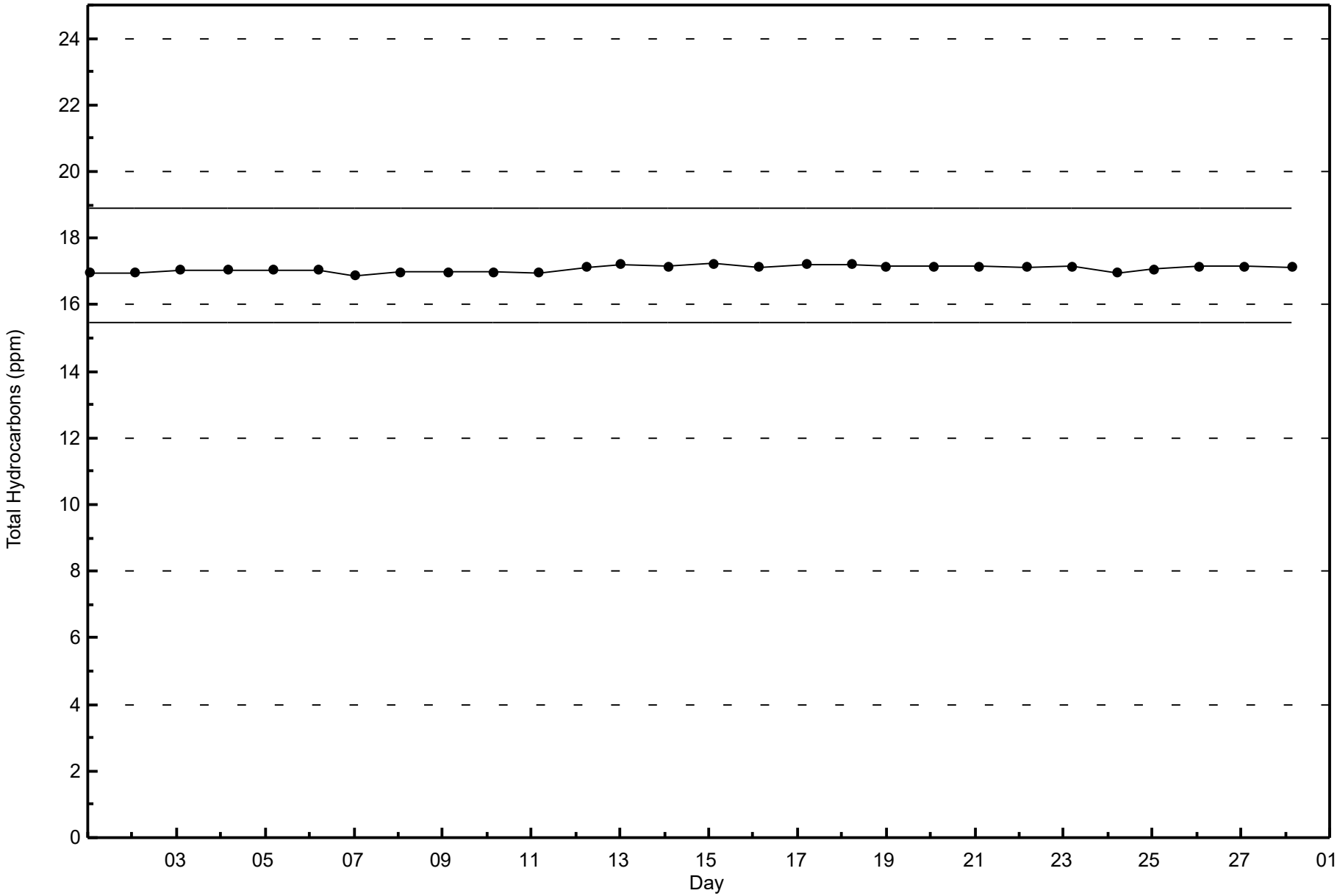


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Fort Hills - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Fort Hills - February 2026

Maximum Value: 1.732 ppm on Feb 14 16:00

Maximum Daily Average: 0.524 ppm on Feb 24

Minimum Value: 0.000 ppm on Feb 1 02:00

Minimum Daily Average: 0.000 ppm on Feb 17

Maximum Diurnal Average: 0.140 ppm at hour 16

Minimum Diurnal Average: 0.018 ppm at hour 1

Monthly Average: 0.096 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.1 P_{90} = 0.3 P_{99} = 1.0

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	31
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.379	0.051	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.379
2-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.146	0.282	0.494	0.394	0.330	0.003	0.000	0.012	0.072	0.494
3-Feb	0.000	0.000	Z	0.000	0.000	0.015	0.015	0.061	0.030	0.000	0.079	0.000	0.000	0.256	0.503	0.417	0.413	0.429	0.388	0.184	0.194	0.407	0.236	0.256	0.169	0.503
4-Feb	0.012	0.000	0.000	Z	0.291	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.094	0.255	0.174	0.093	0.000	0.000	0.000	0.000	0.000	0.028	0.060	0.045	0.291
5-Feb	0.052	0.054	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.054
6-Feb	0.000	0.000	0.000	0.000	0.020	Z	0.157	0.282	0.323	0.301	0.273	0.254	0.127	0.252	0.367	0.153	0.323	0.350	0.355	0.393	0.442	0.333	0.320	0.380	0.235	0.442
7-Feb	Z	0.733	0.106	0.193	0.000	0.000	0.000	0.000	0.000	0.020	0.036	0.000	0.029	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.733
8-Feb	0.000	Z	0.016	0.000	0.000	0.031	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.182	0.270	0.148	0.100	0.112	0.000	0.000	0.000	0.039	0.270
9-Feb	0.000	0.003	Z	0.039	0.006	0.000	0.000	0.052	0.150	0.000	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.150
10-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.219	0.291	0.273	0.143	0.000	0.028	0.068	0.038	0.126	0.000	0.000	0.000	0.145	0.129	0.117	0.295	0.081	0.295
11-Feb	0.007	0.061	0.011	0.000	Z	0.000	0.000	0.000	M	C	C	C	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.599	0.359	0.206	0.214	0.043	0.080	0.599
12-Feb	0.005	0.420	0.463	0.176	0.098	0.146	Z	0.000	0.000	0.018	0.028	0.089	0.008	0.000	0.000	0.055	0.211	0.150	0.171	0.664	0.000	0.029	0.192	0.000	0.127	0.664
13-Feb	Z	0.161	0.068	0.000	0.000	0.000	0.000	0.183	0.053	0.053	0.030	0.141	0.000	0.004	0.014	0.000	0.114	0.196	0.163	0.344	0.349	0.393	0.314	0.291	0.125	0.393
14-Feb	0.105	Z	0.230	0.391	0.992	0.519	0.517	0.558	0.588	0.500	0.371	0.494	0.914	1.079	1.231	1.732	0.641	0.156	0.136	0.069	0.058	0.167	0.000	0.000	0.498	1.732
15-Feb	0.000	0.000	Z	0.000	0.000	0.003	0.009	0.000	0.000	0.000	0.000	0.006	0.020	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.151	0.067	0.142	0.007	0.018	0.151
16-Feb	0.000	0.012	0.000	Z	0.004	0.020	0.000	0.000	0.071	0.365	0.244	0.302	0.190	0.079	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.365
17-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.000	0.000	0.000	0.000	0.000	0.000	0.100	0.145	0.000	0.000	0.000	0.000	0.066	0.016	0.145
20-Feb	0.242	Z	0.076	0.185	0.025	0.137	0.072	0.021	0.117	0.198	0.204	0.060	0.076	0.198	0.408	0.318	0.000	0.101	0.211	0.000	0.000	0.000	0.000	0.000	0.115	0.408
21-Feb	0.000	0.000	Z	0.177	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.177
22-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.000	0.001	0.022
23-Feb	0.000	0.063	0.167	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.155	0.153	0.196	0.239	0.314	0.256	0.217	0.204	0.247	0.242	0.016	0.108	0.314
24-Feb	0.000	0.221	0.933	1.274	1.155	Z	0.494	0.407	0.329	0.100	0.182	0.535	0.410	0.571	0.535	0.457	0.413	0.289	1.166	0.772	0.734	0.572	0.335	0.175	0.524	1.274
25-Feb	Z	0.000	0.003	0.000	0.012	0.084	0.252	0.108	0.000	0.000	0.180	0.427	0.298	0.315	0.319	0.391	0.577	0.367	0.263	0.000	0.003	0.000	0.000	0.000	0.156	0.577
26-Feb	0.000	Z	0.009	0.108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.108
27-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.037	0.000	0.031	0.000	0.036	0.000	0.022	0.000	0.000	0.000	0.004	0.005	0.000	0.000	0.008	0.040
28-Feb	0.000	0.081	0.127	Z	0.000	0.000	0.000	0.238	0.251	0.470	0.264	0.090	0.129	0.000	0.000	0.000	0.000	0.000	0.022	0.091	0.284	0.123	0.023	0.000	0.095	0.470
	0.018	0.079	0.096	0.111	0.108	0.039	0.058	0.070	0.093	0.088	0.086	0.095	0.080	0.109	0.140	0.140	0.126	0.107	0.140	0.137	0.120	0.096	0.078	0.057	Diurnal Average	
	0.242	0.733	0.933	1.274	1.155	0.519	0.517	0.558	0.588	0.500	0.371	0.535	0.914	1.079	1.231	1.732	0.641	0.429	1.166	0.772	0.734	0.572	0.335	0.380	Diurnal Maximum	

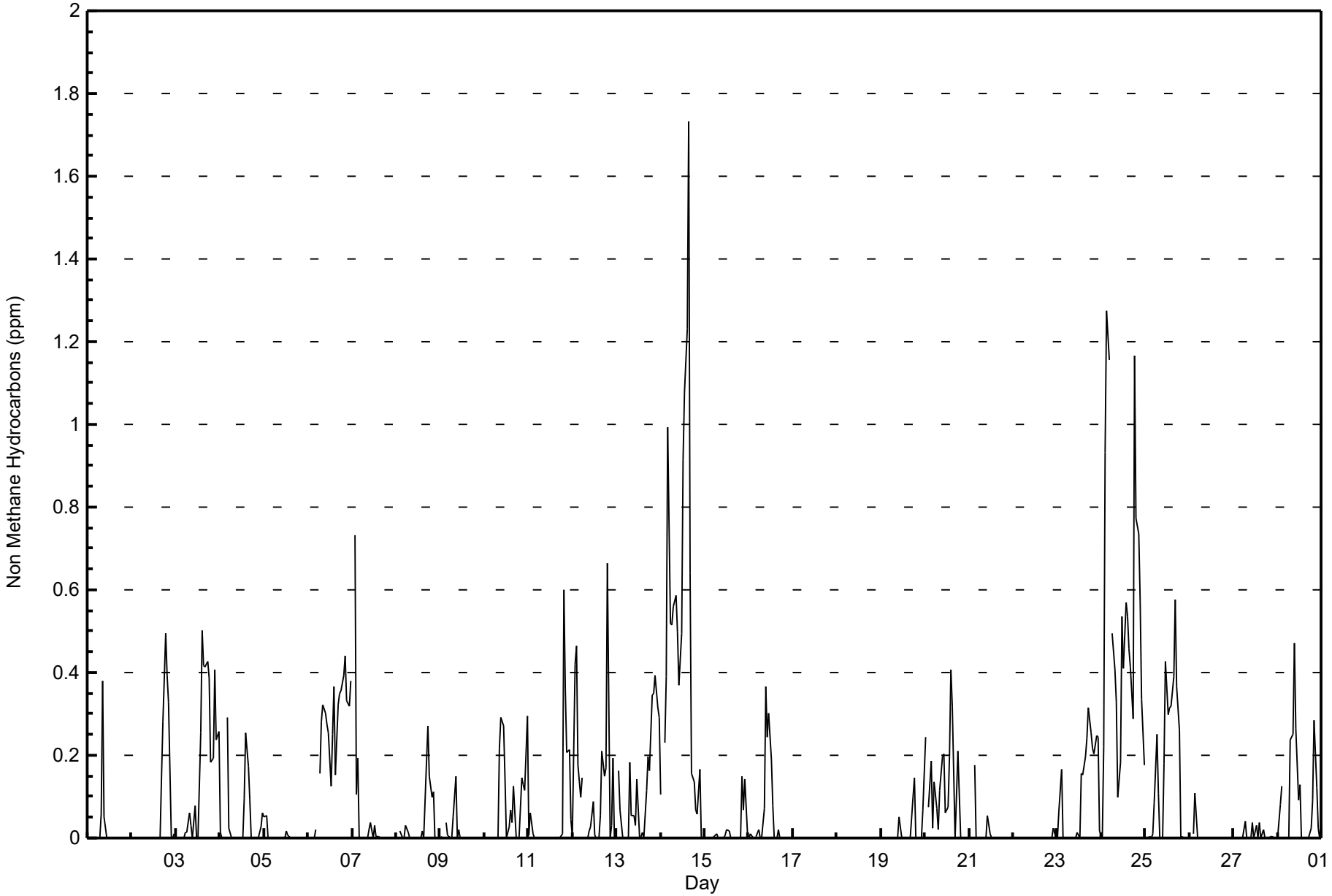
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Fort Hills - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Fort Hills - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	378	59.06	59.06
0.006 - 0.05	64	10.00	69.06
0.06 - 0.1	55	8.59	77.66
> 0.1	143	22.34	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Fort Hills - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	125	76	22	3	1	6	11	44	35	22	6	0	2	3	5	17	378
0.006 - 0.05	4	21	6	0	1	2	5	8	3	4	3	0	1	0	5	1	64
0.06 - 0.1	5	9	4	3	0	1	7	12	5	6	2	0	0	0	1	0	55
> 0.1	18	14	1	1	6	8	29	16	4	15	8	1	2	1	4	15	143
Totals	152	120	33	7	8	17	52	80	47	47	19	1	5	4	15	33	640

Total Number of Valid Hours: 640

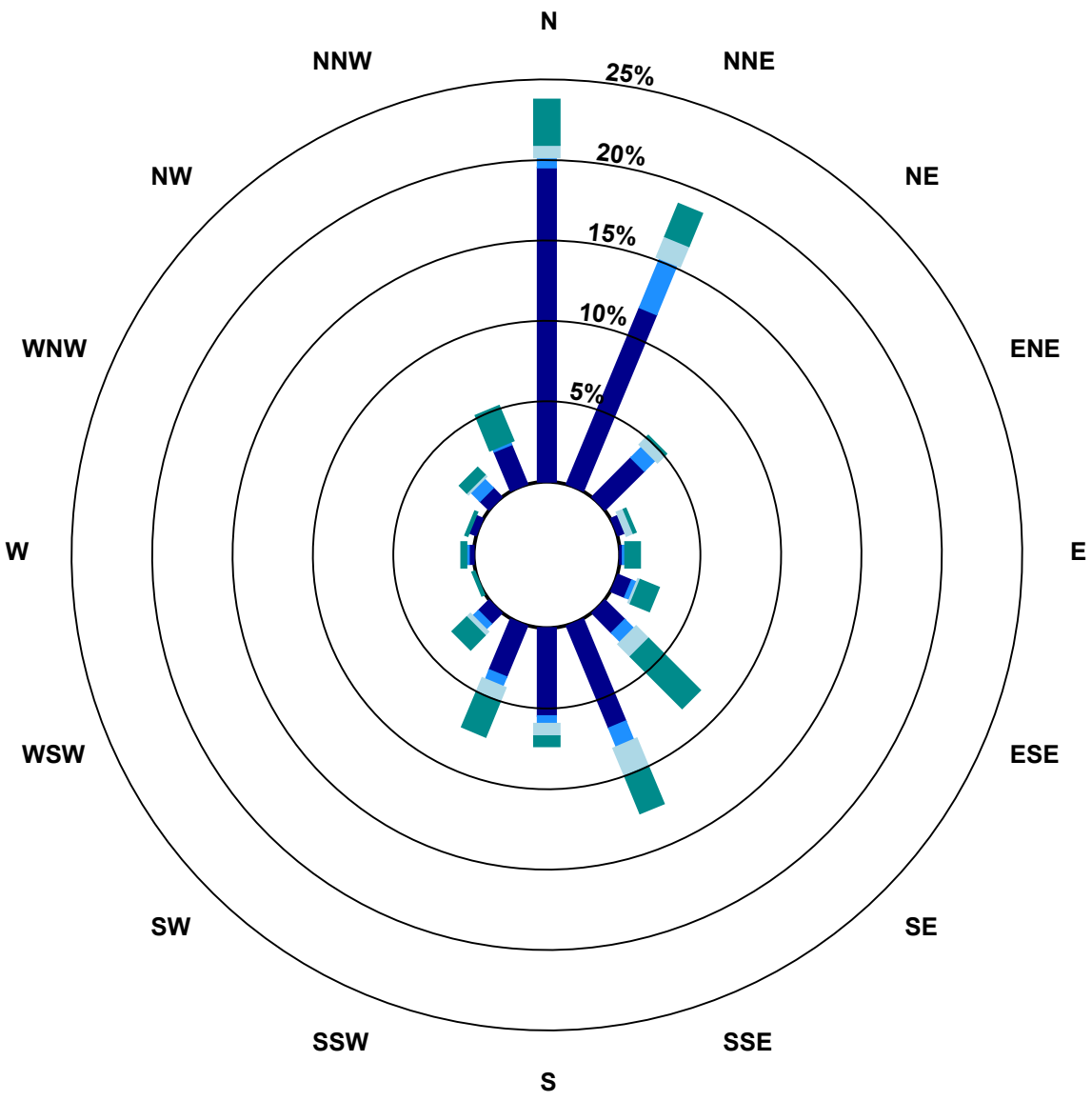
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Fort Hills



Classes (ppm)

- 0 - 0.005
- 0.006 - 0.05
- 0.06 - 0.1
- > 0.1

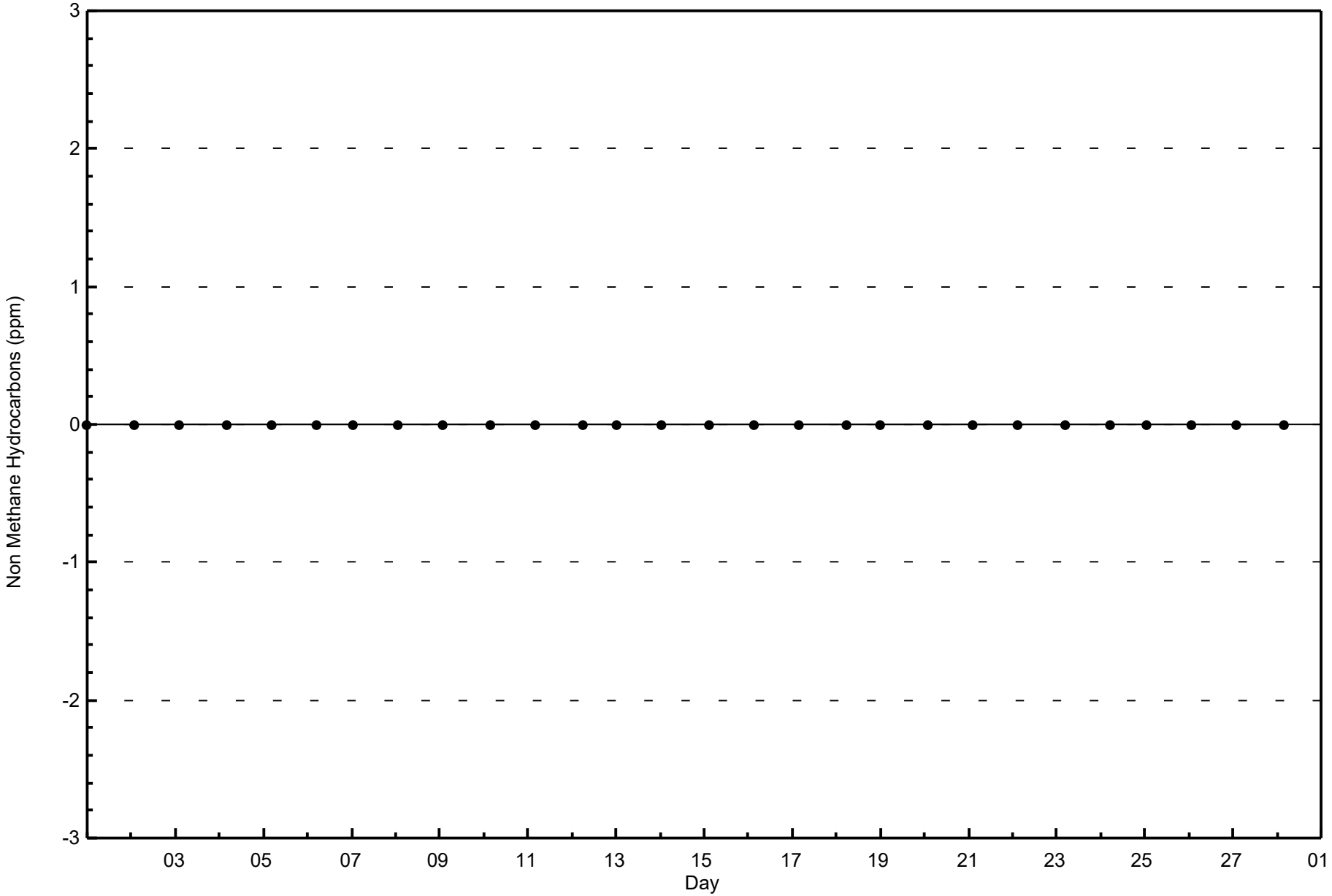
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Fort Hills - February 2026

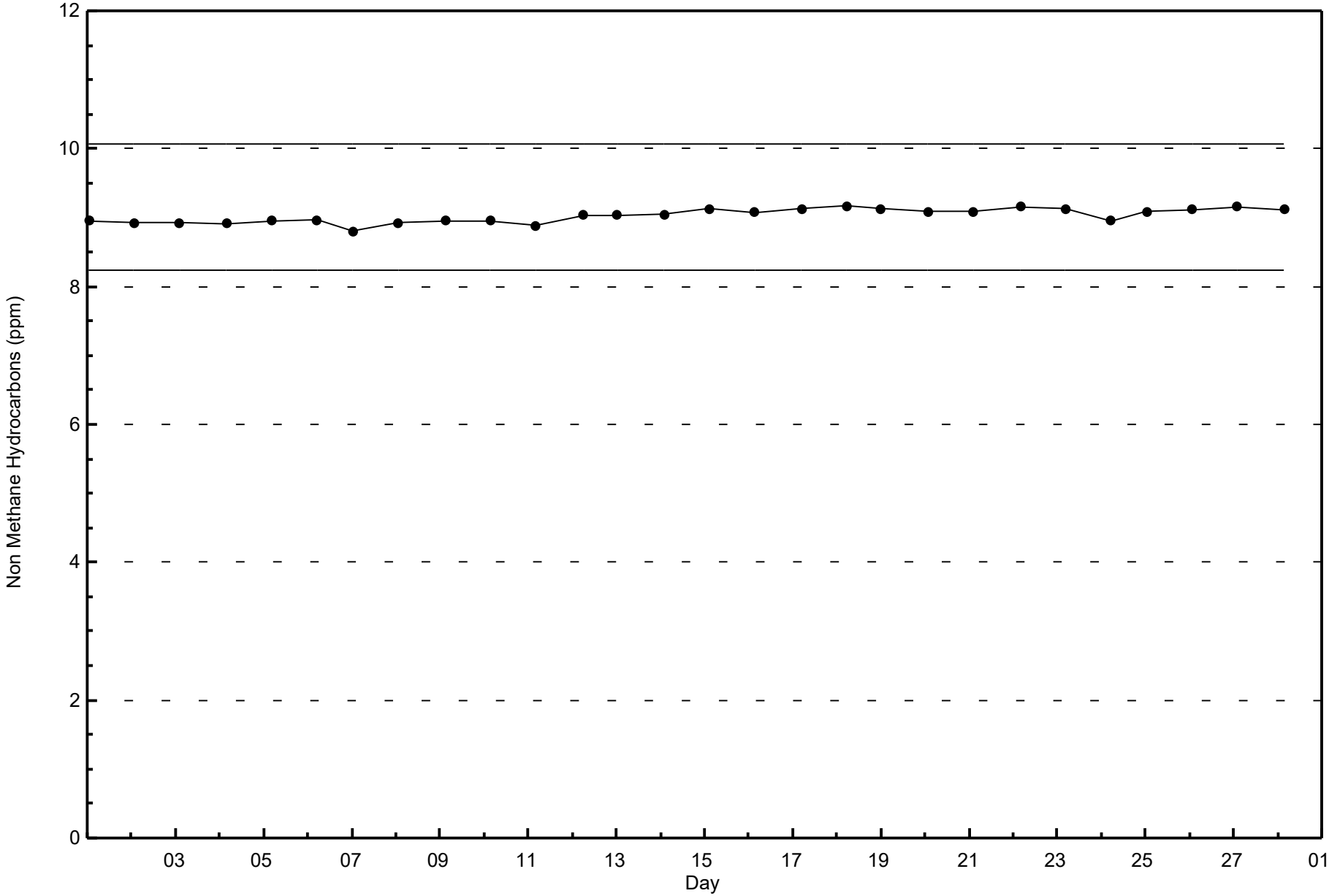


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Fort Hills - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Fort Hills - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 7.8 ppm on Feb 24 03:00 Maximum Daily Average: 3.3 ppm on Feb 24

Minimum Value: 2.0 ppm on Feb 12 14:00 Minimum Daily Average: 2.0 ppm on Feb 17
Maximum Diurnal Average: 2.6 ppm at hour 3 Minimum Diurnal Average: 2.2 ppm at hour 13
Monthly Average: 2.32 ppm Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.0 Median = 2.1 Q_3 = 2.4 P_{90} = 2.8 P_{99} = 4.3

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	31
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.0	2.0	2.1	2.3	2.1	2.0	2.1	2.3	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.3
2-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.3	2.5	3.1	2.9	3.3	2.4	2.2	2.2	2.2	3.3
3-Feb	2.1	2.2	Z	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.6	2.4	2.4	2.3	2.4	2.4	2.4	2.6	2.8	2.7	3.0	2.3	3.0
4-Feb	2.3	2.0	2.1	Z	3.1	2.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.7	2.2	2.1	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.2	3.1
5-Feb	2.1	2.1	2.1	2.1	Z	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
6-Feb	2.1	2.1	2.3	2.4	2.3	Z	2.5	3.0	3.3	2.7	2.4	2.2	2.2	2.9	3.1	2.5	2.8	2.8	2.8	3.2	4.0	3.9	3.7	4.2	2.8	4.2
7-Feb	Z	3.8	2.3	2.1	2.1	2.0	2.0	2.1	2.0	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.2	3.8
8-Feb	2.4	Z	2.2	2.3	2.2	2.7	2.5	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.2	2.7
9-Feb	2.1	2.1	Z	2.2	2.1	2.1	2.5	2.3	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.5
10-Feb	2.4	2.3	2.2	Z	2.2	2.2	2.2	2.2	2.6	2.9	2.7	2.4	2.1	2.1	2.4	2.5	2.5	2.1	2.2	2.2	2.8	3.0	2.6	3.5	2.4	3.5
11-Feb	2.2	2.4	2.3	2.2	Z	2.2	2.1	2.1	M	C	C	C	2.0	2.0	2.0	2.0	2.0	2.1	2.3	4.3	3.4	2.8	2.8	3.0	2.4	4.3
12-Feb	2.5	3.5	4.1	2.9	2.5	2.6	Z	2.0	2.0	2.4	2.1	2.3	2.0	2.0	2.0	2.1	2.2	2.1	2.2	2.8	2.1	2.3	2.4	2.2	2.4	4.1
13-Feb	Z	2.7	2.2	2.0	2.1	2.1	2.0	2.4	2.5	2.7	2.5	2.5	2.2	2.1	2.4	2.4	2.5	2.4	2.3	2.7	3.5	3.5	3.2	3.1	2.5	3.5
14-Feb	2.6	Z	2.8	4.2	4.9	4.0	3.6	3.9	4.3	3.9	3.5	3.3	3.3	3.4	3.2	3.9	3.2	2.4	2.2	2.2	2.5	2.7	2.4	2.2	3.2	4.9
15-Feb	2.0	2.0	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.2	2.2	2.2	2.1	2.3
16-Feb	2.3	2.5	2.2	Z	2.2	2.3	2.2	2.1	3.1	4.8	3.8	3.1	2.5	2.1	2.2	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	4.8
17-Feb	2.1	2.0	2.1	2.0	Z	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
18-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.0	2.1	2.4	2.0	2.4
19-Feb	Z	2.0	2.0	2.0	2.2	2.3	2.4	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.6	2.7	2.2	2.2	2.1	2.2	2.2	2.2	2.7
20-Feb	2.3	Z	2.4	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.3	2.5	2.6	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.3	2.3	2.6
21-Feb	2.2	2.2	Z	2.2	2.0	2.2	2.2	2.3	2.7	2.5	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.7
22-Feb	2.1	2.0	2.0	Z	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.4	2.3	2.3	2.4	2.6	2.9	2.7	2.2	2.9
23-Feb	2.3	2.6	3.0	2.2	Z	2.0	2.0	2.1	2.0	2.0	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.3	2.3	2.4	2.3	2.4	2.3	2.3	3.0
24-Feb	2.3	3.4	7.8	7.7	6.0	Z	3.5	3.1	2.9	2.5	2.9	2.8	2.5	2.5	2.2	2.3	2.5	2.8	2.4	2.6	2.8	3.8	3.0	2.7	3.3	7.8
25-Feb	Z	2.3	2.4	2.4	2.4	2.4	2.6	3.2	2.7	2.5	3.1	3.0	2.6	2.6	2.4	2.3	2.7	2.7	2.4	2.1	2.1	2.1	2.1	2.1	2.5	3.2
26-Feb	2.1	Z	2.1	2.2	2.0	2.1	2.1	2.1	2.2	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.2
27-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.1
28-Feb	2.0	3.0	2.9	Z	2.2	2.4	2.7	2.5	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.3	2.2	2.3	2.3	2.2	3.0
	2.2	2.4	2.6	2.5	2.5	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.4	2.3	2.4	Diurnal Average	
	2.6	3.8	7.8	7.7	6.0	4.0	3.6	3.9	4.3	4.8	3.8	3.3	3.3	3.4	3.2	3.9	3.2	2.8	3.1	4.3	4.0	3.9	3.7	4.2	Diurnal Maximum	

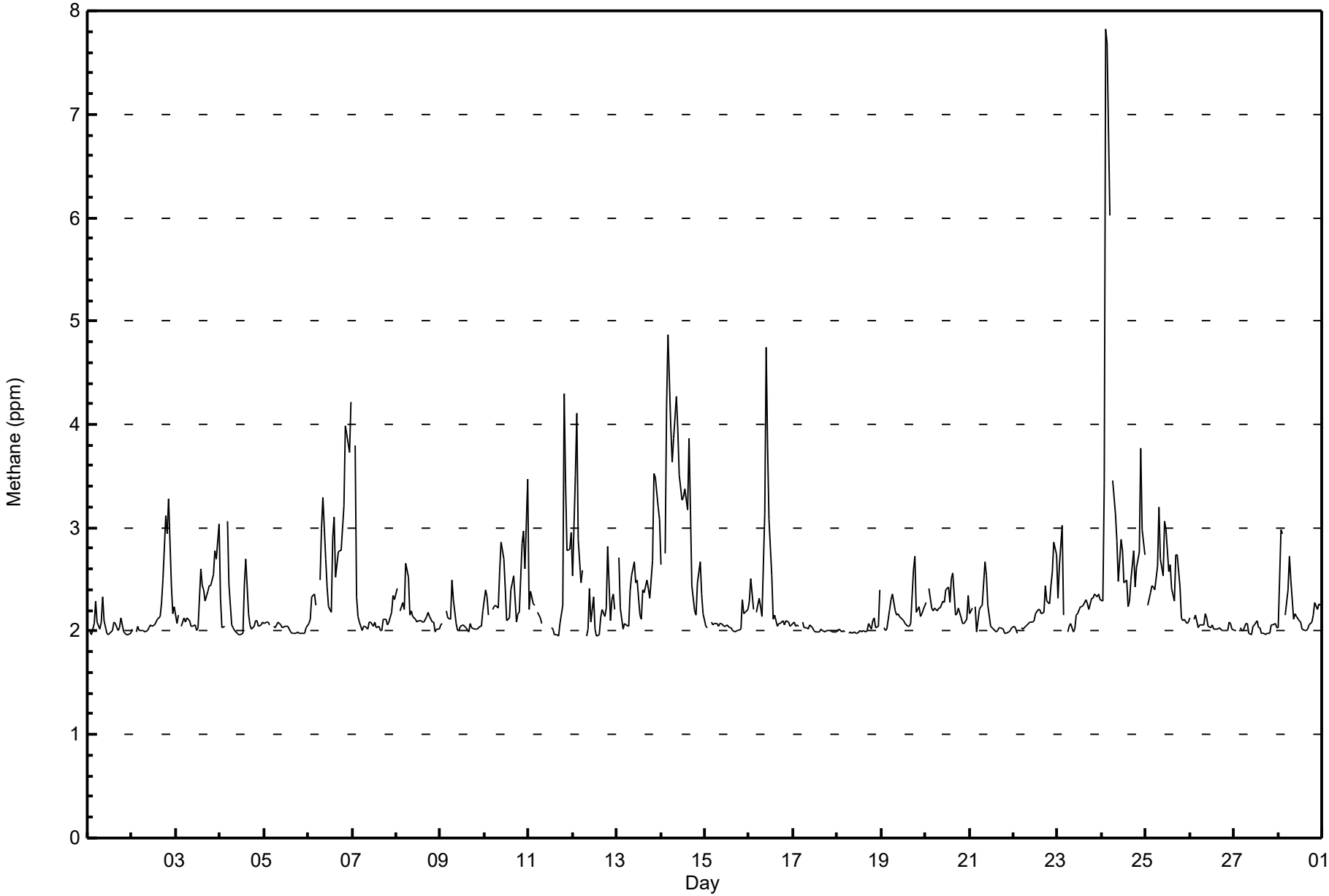
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Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Fort Hills - February 2026



Methane (CH_4) - ppm
Fort Hills - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	195	30.47	30.47
2.1 - 3.0	398	62.19	92.66
3.1 - 10.0	47	7.34	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Fort Hills - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	62	42	24	3	2	3	2	20	24	10	2	0	0	1	0	0	195
2.1 - 3.0	80	75	9	4	4	13	41	54	21	34	16	1	5	2	14	25	398
3.1 - 10.0	10	3	0	0	2	1	9	6	2	3	1	0	0	1	1	8	47
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	152	120	33	7	8	17	52	80	47	47	19	1	5	4	15	33	640

Total Number of Valid Hours: 640

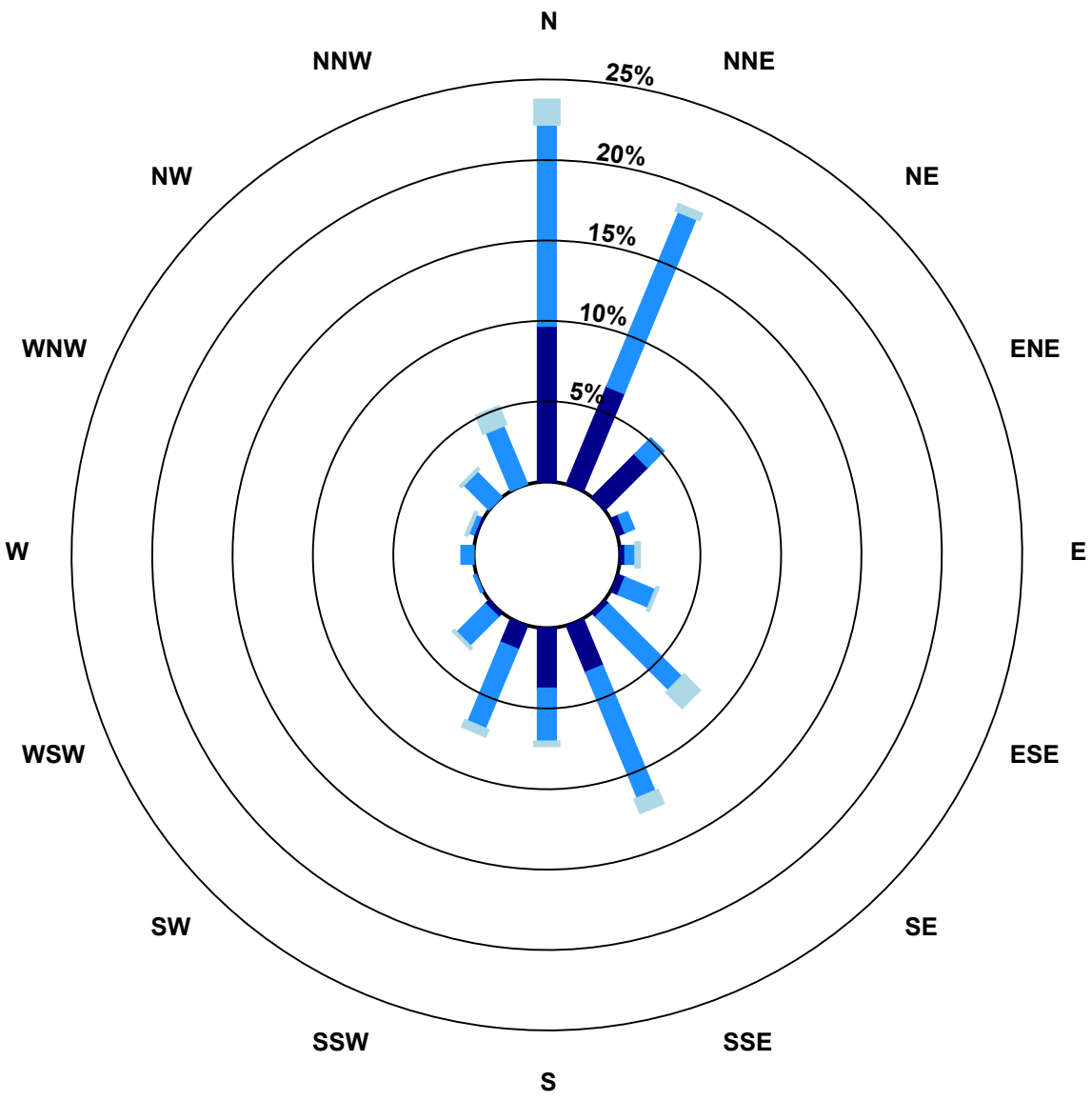
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Fort Hills



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

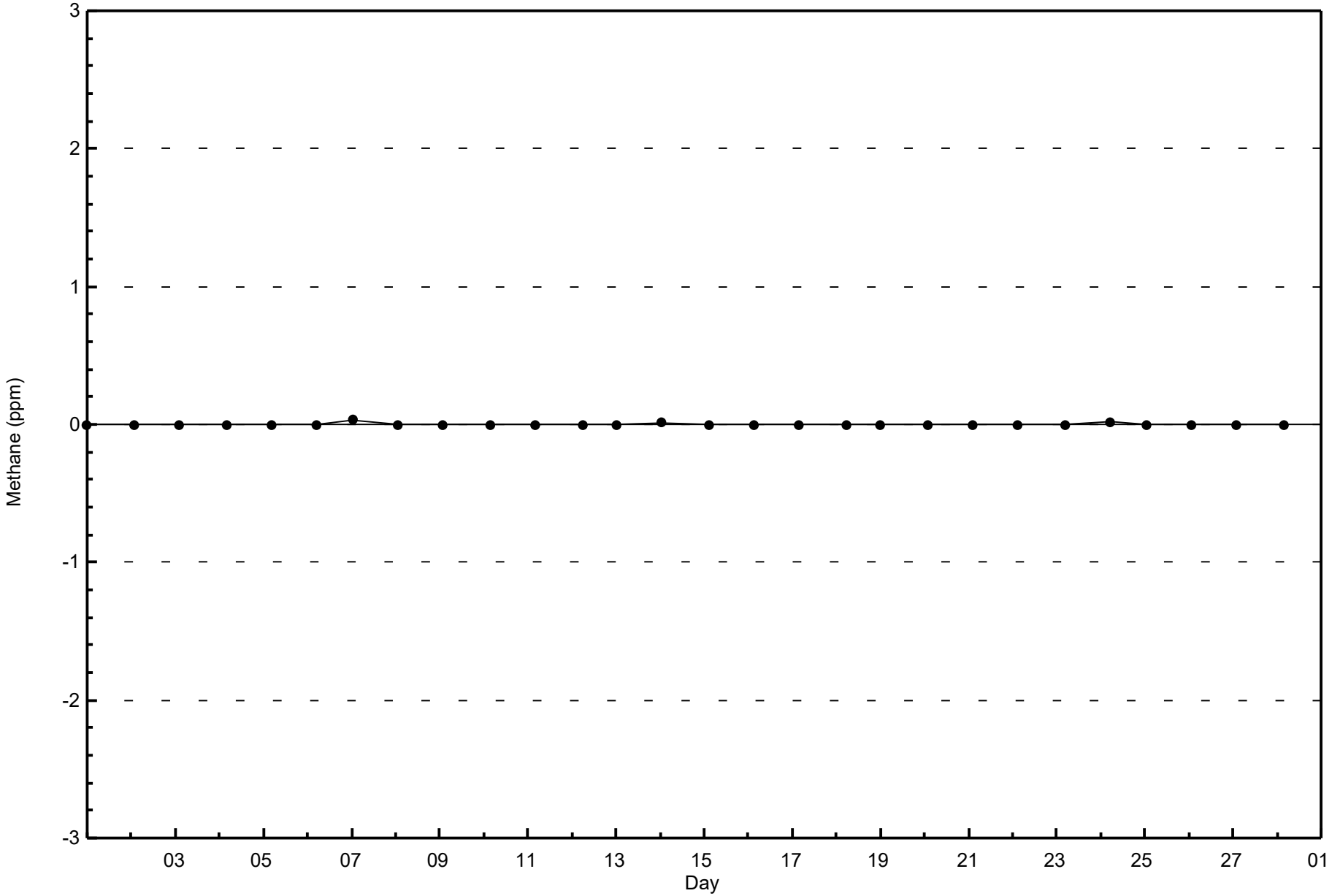
Total Number of Valid Hours: 640

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Fort Hills - February 2026

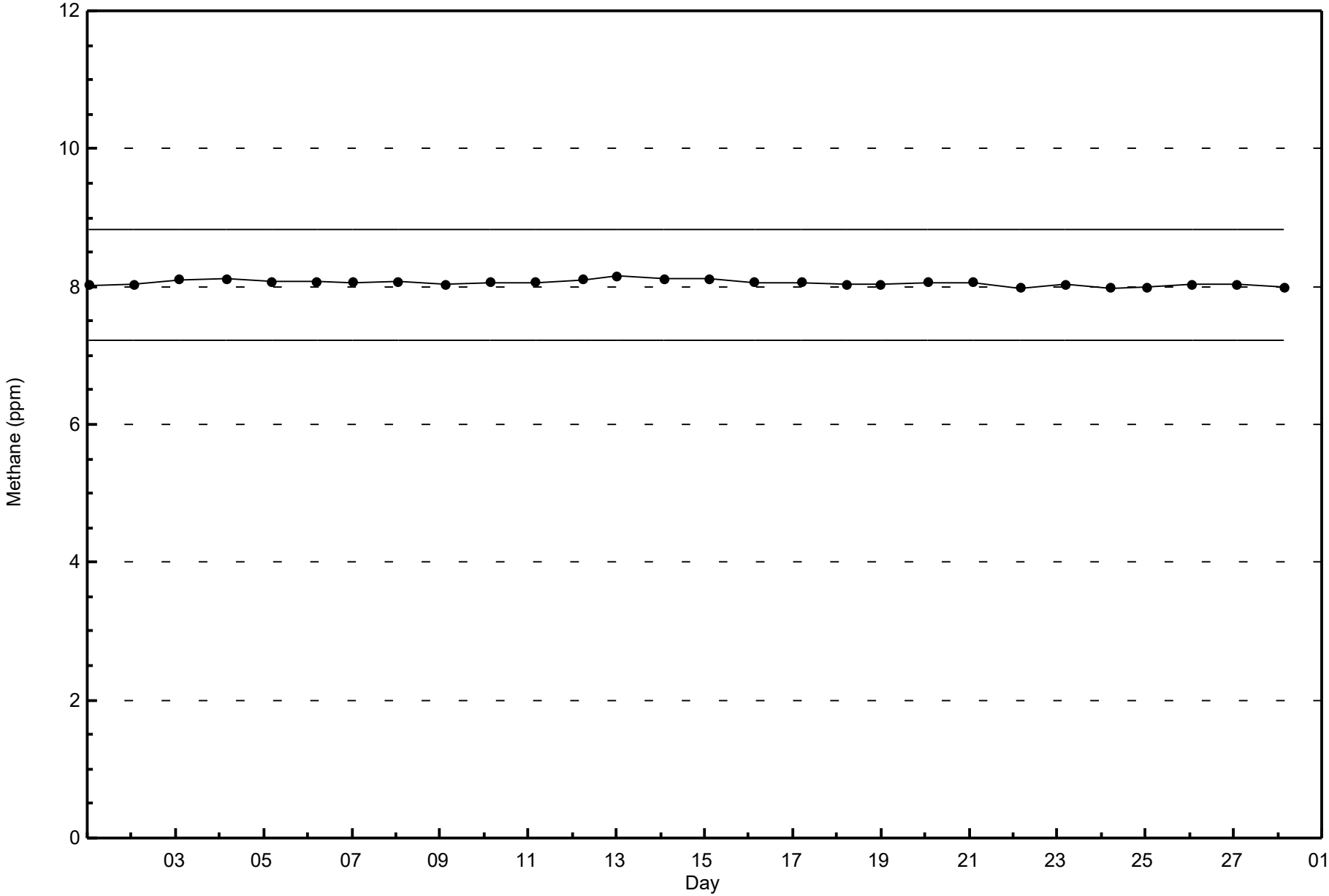


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Fort Hills - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Fort Hills - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 363.5 ppb on Feb 24 03:00

Maximum Daily Average: 85.7 ppb on Feb 24

Minimum Value: 0.0 ppb on Feb 1 03:00

Minimum Daily Average: 1.5 ppb on Feb 5

Maximum Diurnal Average: 28.4 ppb at hour 3

Minimum Diurnal Average: 9.4 ppb at hour 4

Monthly Average: 18.52 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.4 Q_1 = 1.7 Median = 4.9 Q_3 = 19.0 P_{90} = 49.8 P_{99} = 163.9

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.5	0.1	0.0	1.2	Z	2.1	0.3	0.4	6.5	3.5	1.6	2.2	2.7	3.3	5.8	3.4	0.6	0.2	0.5	0.0	0.0	0.0	0.0	0.0	1.6	6.5
2-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.2	1.0	1.9	1.7	1.9	3.1	3.6	4.2	21.5	40.7	71.7	99.8	80.9	20.5	16.2	4.4	16.2	99.8
3-Feb	Z	2.2	1.8	1.2	2.7	1.2	0.9	0.7	2.1	4.0	4.8	4.2	5.3	34.2	25.4	40.8	27.1	33.4	24.7	10.8	18.0	54.3	24.6	31.4	15.5	54.3
4-Feb	3.4	Z	0.0	30.8	31.5	10.0	0.0	0.0	0.0	0.1	0.3	0.4	1.4	6.4	14.3	5.3	2.9	1.0	0.4	0.4	1.1	1.5	0.7	0.9	4.9	31.5
5-Feb	0.9	0.8	Z	0.5	1.1	2.2	1.0	1.0	1.4	2.6	3.4	3.7	4.7	3.3	3.2	1.8	0.8	0.0	0.6	0.2	0.4	0.0	0.0	0.1	1.5	4.7
6-Feb	1.2	1.3	3.7	Z	6.6	3.5	43.9	84.0	103.5	57.6	39.0	17.4	9.7	39.8	38.0	14.6	20.7	26.6	29.5	48.4	63.2	45.6	43.0	94.1	36.3	103.5
7-Feb	141.0	147.3	11.4	1.3	Z	1.9	0.9	1.0	1.7	2.9	3.0	2.2	4.2	2.9	3.0	1.9	1.4	1.1	1.9	2.1	2.2	1.9	1.3	1.6	14.8	147.3
8-Feb	1.0	1.4	7.6	3.5	1.7	Z	17.8	1.2	6.1	5.9	8.3	5.9	6.6	4.5	5.3	4.9	3.2	4.3	1.9	1.6	1.1	0.5	0.1	0.0	4.1	17.8
9-Feb	Z	0.0	10.7	25.6	0.3	13.3	42.7	23.0	C	C	C	C	C	4.7	3.0	2.3	3.0	1.2	0.5	1.0	0.8	1.0	0.9	1.2	7.5	42.7
10-Feb	1.0	Z	1.2	5.6	4.4	0.4	0.2	0.2	22.6	21.5	25.0	15.3	6.7	9.7	18.3	11.1	10.6	0.4	1.4	3.5	38.8	43.2	14.2	41.4	12.9	43.2
11-Feb	4.7	8.2	Z	3.2	4.7	0.2	0.2	0.0	M	0.6	1.7	2.2	3.0	2.0	0.6	0.1	0.0	0.1	10.0	116.7	75.7	33.4	36.5	23.5	14.9	116.7
12-Feb	9.4	97.7	124.7	16.7	Z	5.4	0.0	0.0	1.1	16.4	4.4	9.6	2.1	0.0	0.4	2.0	0.4	0.2	3.0	32.3	0.2	2.5	2.1	0.2	14.4	124.7
13-Feb	2.5	0.8	0.0	0.0	Z	0.0	0.0	2.7	3.0	7.8	8.1	9.5	2.4	2.7	5.9	3.7	4.3	5.0	8.3	38.4	56.3	68.1	89.9	91.3	17.9	91.3
14-Feb	45.6	40.7	34.7	63.9	160.6	Z	90.3	125.2	182.9	150.0	100.8	111.4	137.7	142.2	106.3	209.7	92.9	41.2	7.9	4.7	18.8	19.5	4.6	7.2	82.6	209.7
15-Feb	Z	1.5	1.0	0.8	1.1	1.3	0.8	0.8	1.6	3.1	2.2	4.1	5.8	5.0	4.0	3.0	2.2	1.1	1.0	2.7	14.0	3.9	6.4	6.7	3.2	14.0
16-Feb	15.0	Z	1.8	0.5	1.3	2.8	18.0	8.4	76.4	192.7	165.9	116.5	51.1	21.4	18.5	5.6	4.9	6.1	6.3	6.6	4.0	5.5	4.4	4.6	32.1	192.7
17-Feb	4.2	3.7	Z	3.6	5.5	6.9	7.9	5.9	5.7	4.3	3.0	3.3	2.6	2.3	2.4	2.2	2.2	0.7	1.2	1.3	1.8	2.4	3.1	4.1	3.5	7.9
18-Feb	5.7	8.2	6.1	Z	5.0	4.4	5.1	5.6	4.8	5.4	5.0	5.1	6.0	4.6	6.2	5.3	6.1	7.6	6.7	17.6	14.7	4.8	6.2	16.9	7.1	17.6
19-Feb	7.0	2.8	0.7	2.6	Z	35.3	52.9	30.3	23.3	23.3	19.0	12.3	9.7	7.2	4.8	4.9	4.8	17.4	20.9	5.1	1.4	0.7	0.8	5.1	12.7	52.9
20-Feb	4.5	9.8	9.2	6.5	7.7	Z	1.8	0.8	5.1	15.0	18.0	25.4	25.4	27.9	58.1	38.7	7.5	3.6	6.3	4.4	2.3	3.4	7.3	8.9	12.9	58.1
21-Feb	Z	15.4	19.6	18.2	18.8	29.3	42.5	47.4	59.6	49.5	27.4	5.6	4.3	3.9	3.5	3.1	3.3	1.4	1.6	2.2	2.1	3.3	5.5	7.0	16.3	59.6
22-Feb	7.0	Z	4.4	7.8	10.0	6.4	9.2	10.6	12.2	14.0	12.9	15.4	20.2	19.0	20.5	18.2	19.3	31.1	37.5	57.8	69.8	61.8	67.7	49.8	25.3	69.8
23-Feb	22.6	80.6	Z	7.9	2.7	0.0	0.0	0.2	1.4	5.0	11.7	17.2	27.3	35.2	35.2	27.3	29.0	22.3	34.8	35.3	36.2	38.8	29.5	11.4	22.3	80.6
24-Feb	11.3	77.5	363.5	Z	280.7	213.8	102.5	100.3	69.3	44.0	74.3	74.5	43.4	51.1	16.3	21.1	30.8	37.0	43.8	45.7	61.8	114.4	56.2	37.3	85.7	363.5
25-Feb	9.4	1.3	4.2	5.7	Z	1.0	21.1	43.2	26.4	25.0	52.8	40.0	15.3	15.1	11.6	18.3	49.7	53.3	15.4	1.9	2.1	1.7	1.2	1.8	18.1	53.3
26-Feb	2.4	1.6	2.5	2.3	1.6	Z	1.9	1.7	2.6	3.3	2.6	2.9	4.1	2.8	3.0	3.0	2.0	1.1	1.0	0.9	1.6	2.6	1.9	1.4	2.2	4.1
27-Feb	Z	1.0	1.1	2.6	2.2	3.4	4.7	10.3	11.9	9.4	9.0	12.8	12.3	9.8	14.6	14.0	7.9	3.4	3.0	7.6	34.9	33.8	25.5	15.8	10.9	34.9
28-Feb	4.6	Z	71.1	24.1	24.0	63.8	90.3	48.4	16.4	15.2	15.9	11.6	8.8	10.0	7.2	3.5	2.4	0.9	0.1	0.1	3.1	0.2	2.1	6.3	18.7	90.3
	13.3	21.9	28.4	9.4	26.1	17.8	19.9	19.8	24.9	25.3	23.0	19.7	15.7	16.9	15.7	16.9	12.9	12.2	12.2	19.6	21.7	20.3	16.1	16.9	Diurnal Average	
	141.0	147.3	363.5	63.9	280.7	213.8	102.5	125.2	182.9	192.7	165.9	116.5	137.7	142.2	106.3	209.7	92.9	53.3	71.7	116.7	80.9	114.4	89.9	94.1	Diurnal Maximum	

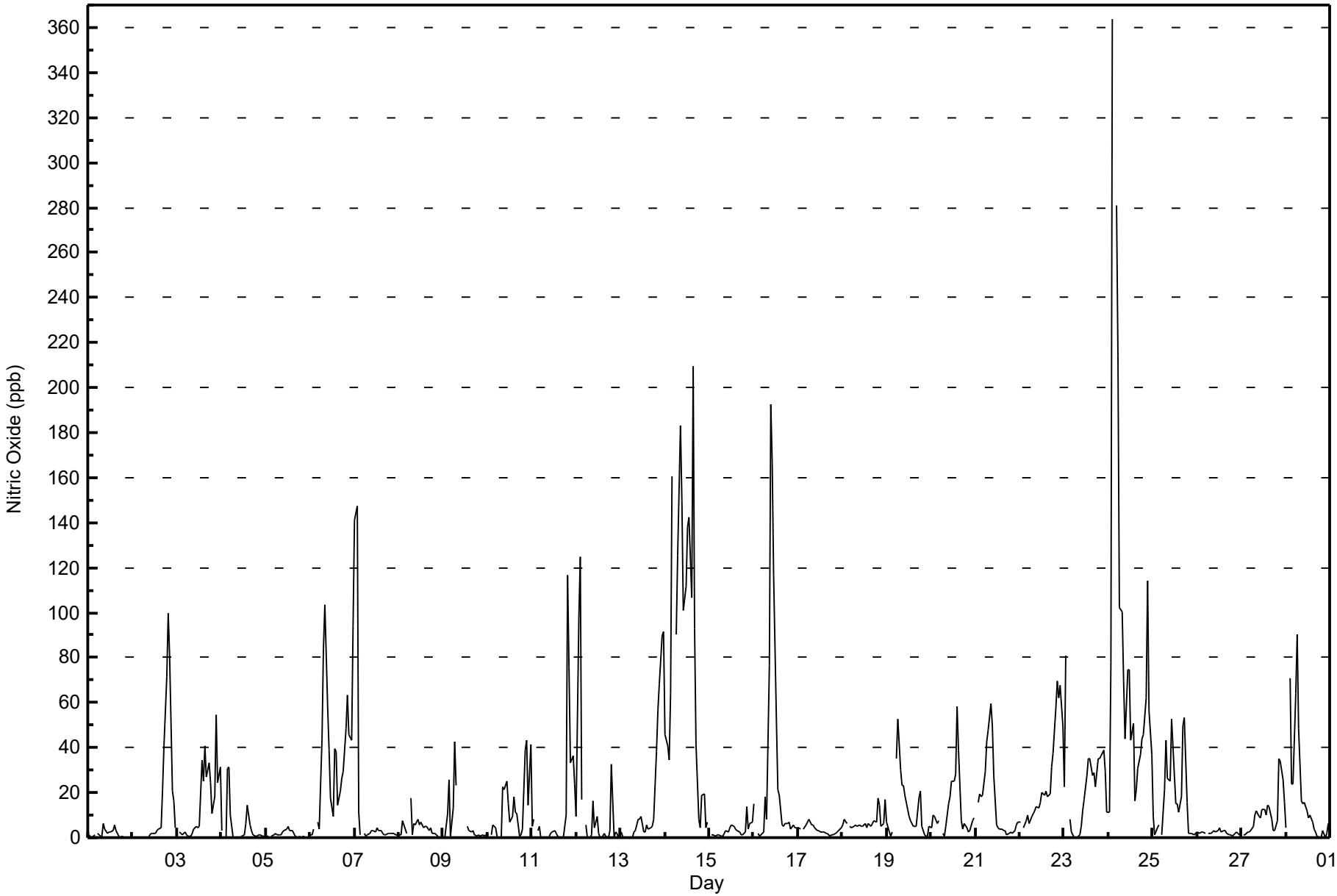
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Fort Hills - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	484	75.86	75.86
21 - 40	68	10.66	86.52
11 - 80	51	7.99	94.51
81 - 159	25	3.92	98.43
> 159	8	1.25	99.69

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Fort Hills - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	123	108	33	4	2	7	27	58	45	35	15	0	5	3	8	11	484
21 - 40	8	3	0	2	4	5	10	9	2	9	3	1	2	0	4	6	68
11 - 80	10	5	0	1	0	3	9	9	3	4	0	0	0	0	1	6	51
81 - 159	7	2	0	0	2	0	3	4	0	0	0	0	0	1	0	6	25
> 159	1	1	0	0	0	0	4	0	0	0	0	0	0	0	0	2	8
Totals	149	119	33	7	8	15	53	80	50	48	18	1	7	4	13	31	636

Total Number of Valid Hours: 638

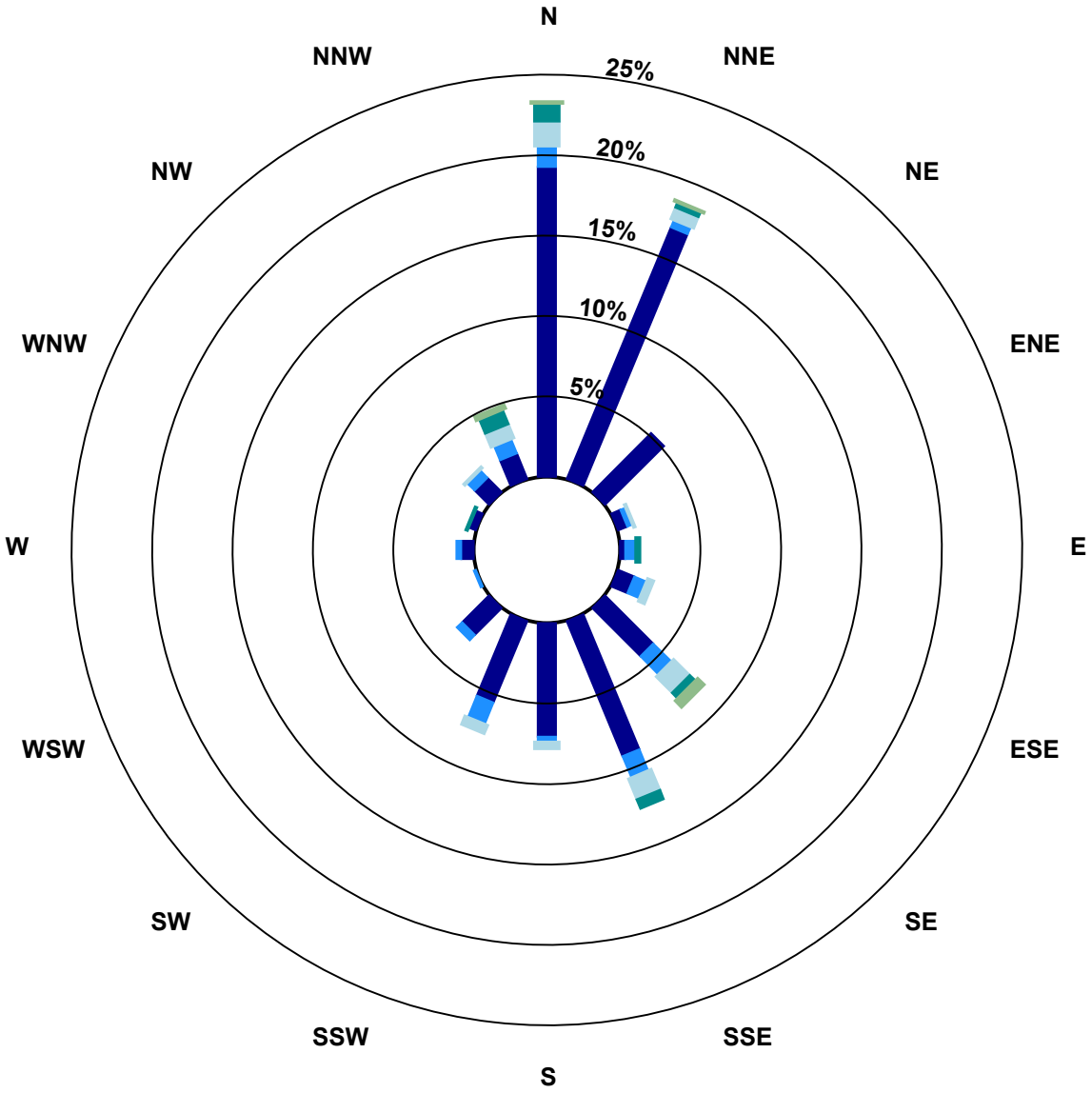
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Fort Hills



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

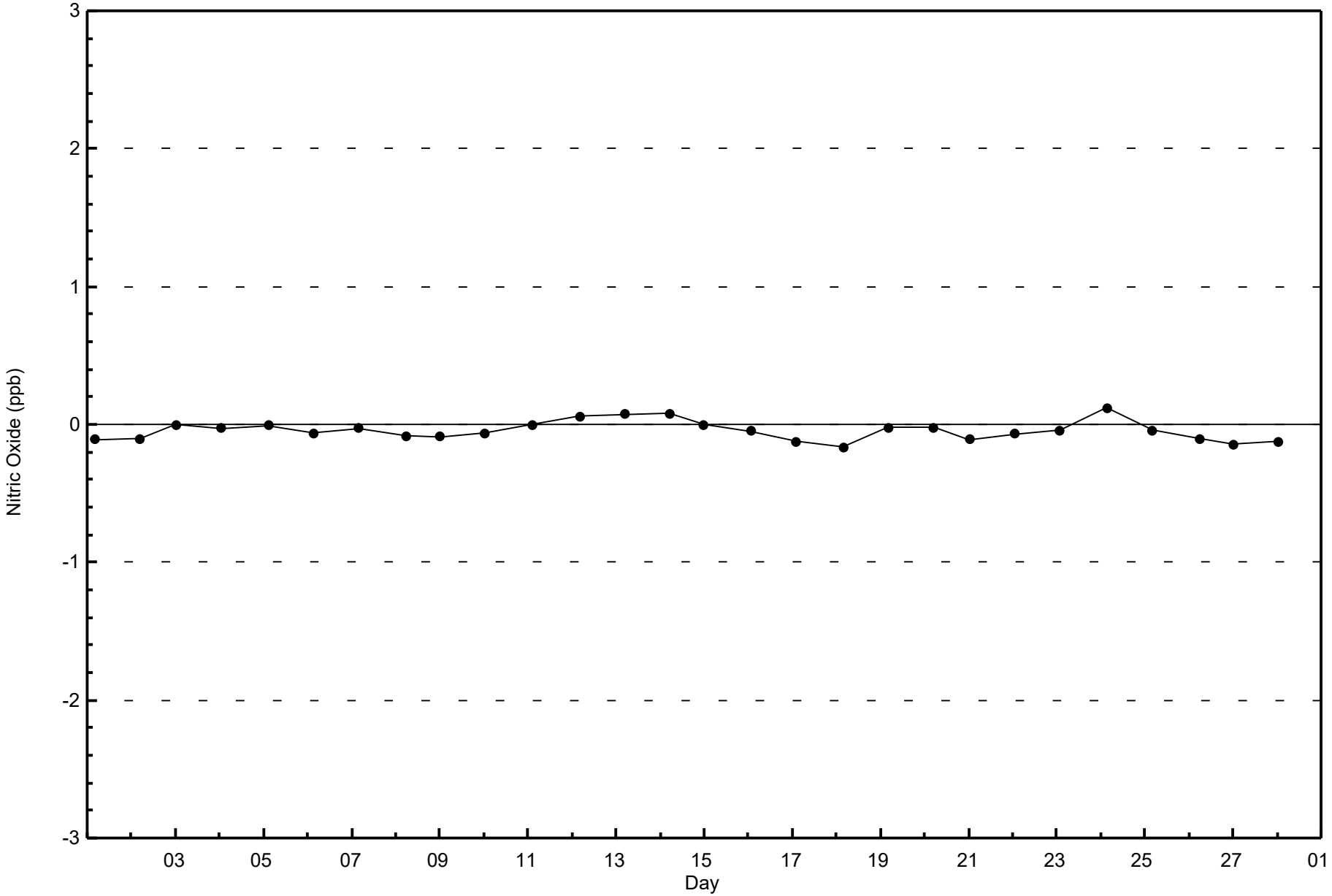
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Fort Hills - February 2026

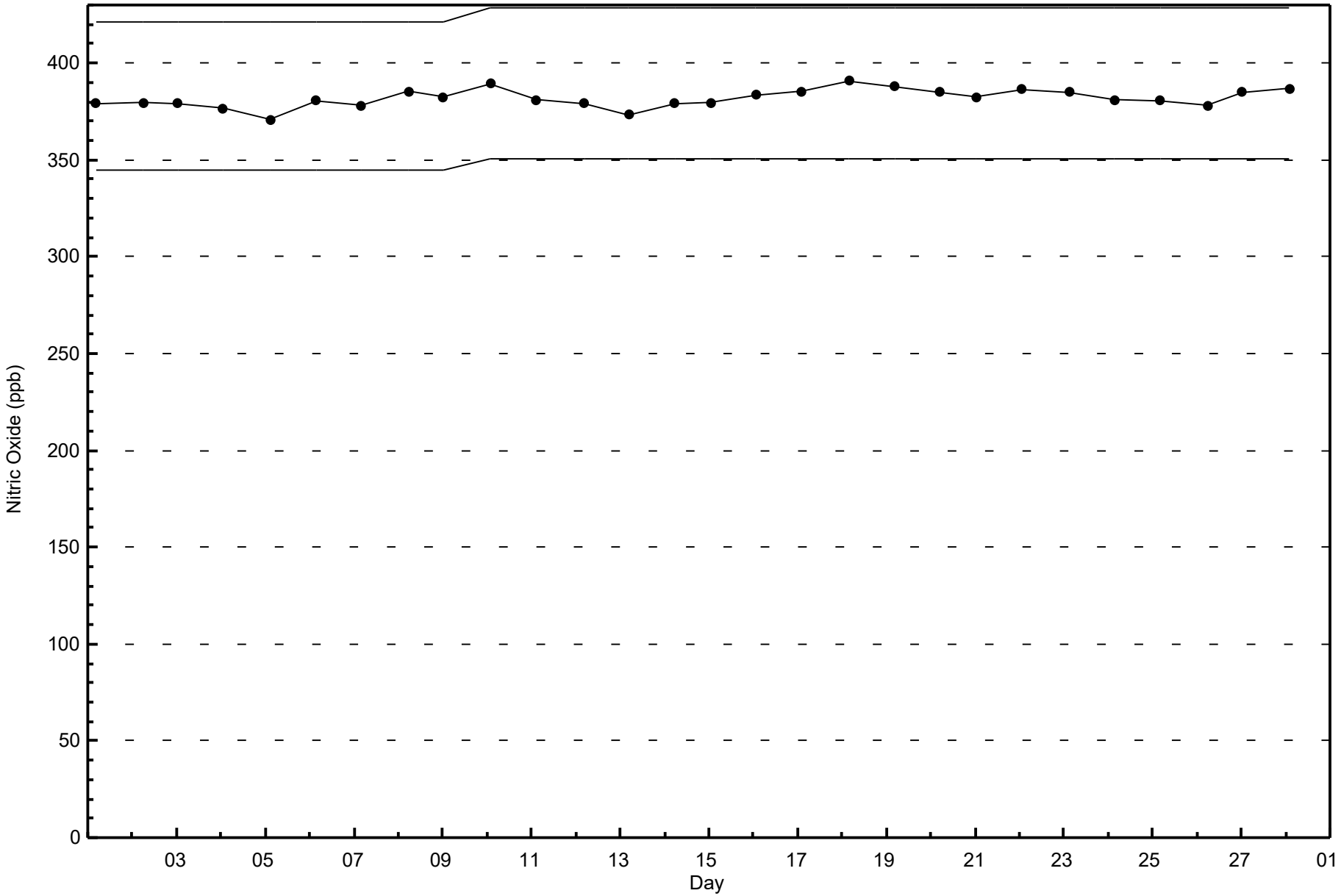


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Fort Hills - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Fort Hills - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 74.9 ppb on Feb 24 03:00
Maximum Daily Average: 37.7 ppb on Feb 14

Minimum Value: 0.6 ppb on Feb 12 14:00
Minimum Daily Average: 3.2 ppb on Feb 18
Maximum Diurnal Average: 21.2 ppb at hour 3
Minimum Diurnal Average: 9.7 ppb at hour 13
Monthly Average: 17.17 ppb
Percentiles: P_1 = 1.3 P_{10} = 4.6 Q_1 = 7.6 Median = 14.5 Q_3 = 25.0 P_{90} = 33.1 P_{99} = 46.2

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	18.5	13.6	2.6	13.6	Z	15.7	14.4	16.1	29.2	16.1	6.6	6.2	6.8	7.8	11.9	11.3	9.1	13.2	20.1	5.7	7.0	5.3	4.6	3.7	11.3	29.2
2-Feb	7.3	5.2	3.9	6.8	2.4	Z	11.1	9.0	7.8	6.6	6.1	4.7	4.9	6.2	7.2	10.3	22.6	30.6	33.7	34.8	33.2	28.7	26.9	22.0	14.4	34.8
3-Feb	Z	18.6	16.3	16.1	21.1	14.5	13.6	16.3	14.7	15.8	13.3	11.6	11.0	28.0	28.4	33.2	33.8	35.5	33.8	30.4	30.8	32.0	27.9	26.8	22.8	35.5
4-Feb	20.5	Z	6.1	22.4	22.6	14.1	4.5	3.1	2.2	1.5	1.4	1.5	2.7	8.8	16.4	10.8	13.8	9.4	9.0	9.8	12.1	11.8	8.8	9.6	9.7	22.6
5-Feb	8.5	10.2	Z	7.6	13.3	13.2	10.8	13.9	11.6	11.7	8.2	6.9	8.4	6.7	7.8	7.1	7.3	5.3	9.2	9.4	8.0	3.3	3.3	11.4	8.8	13.9
6-Feb	24.3	23.9	31.8	Z	33.1	30.6	37.3	40.6	41.7	35.7	31.6	23.0	15.9	26.5	29.8	25.3	30.1	32.0	31.8	31.8	31.2	30.0	30.1	32.3	30.5	41.7
7-Feb	37.7	39.6	24.2	14.1	Z	17.4	9.9	12.4	13.0	10.8	8.0	5.2	8.7	7.2	7.2	7.2	10.6	18.0	20.8	22.6	22.8	24.7	24.2	25.0	17.0	39.6
8-Feb	24.4	21.8	32.9	23.2	23.9	Z	31.4	13.5	20.9	16.9	15.6	10.1	9.6	7.8	9.6	11.6	14.5	24.8	23.3	17.5	17.3	11.1	9.8	3.9	17.2	32.9
9-Feb	Z	11.9	25.9	30.8	22.6	20.7	33.1	30.0	C	C	C	C	C	7.7	6.5	7.7	14.3	16.0	13.3	17.2	15.4	16.9	19.1	26.5	18.6	33.1
10-Feb	28.4	Z	18.8	35.6	21.6	19.3	22.8	23.5	33.1	28.8	23.2	17.0	10.6	12.1	15.7	14.0	17.5	11.9	19.7	21.2	25.6	26.1	20.8	26.2	21.5	35.6
11-Feb	17.6	19.3	Z	21.9	24.6	16.1	13.2	7.5	M	3.0	4.4	3.6	5.0	3.6	1.7	1.1	1.4	11.1	21.3	39.5	34.2	30.3	30.0	29.4	15.4	39.5
12-Feb	26.4	33.2	35.2	28.6	Z	26.8	8.3	2.9	7.4	19.4	5.9	9.5	2.5	0.6	2.3	11.6	7.7	15.9	16.6	35.5	9.3	21.1	31.5	23.1	16.6	35.5
13-Feb	35.0	26.4	16.5	8.4	Z	10.3	12.1	33.0	27.0	21.0	14.5	14.3	4.7	5.6	12.2	12.0	21.2	33.9	32.0	40.2	41.6	41.3	41.7	41.5	23.8	41.7
14-Feb	37.3	36.0	35.8	36.5	46.2	Z	39.7	38.4	42.5	39.2	33.2	35.4	43.8	47.9	46.2	60.2	41.4	36.4	30.7	27.0	31.6	32.1	23.9	25.2	37.7	60.2
15-Feb	Z	13.1	9.8	12.8	11.1	13.5	10.6	8.4	9.7	9.8	5.7	6.3	5.8	5.6	5.1	4.9	6.2	8.1	13.7	20.2	29.5	21.8	22.5	22.5	12.0	29.5
16-Feb	26.1	Z	16.9	10.9	10.8	16.2	24.2	21.2	26.3	47.7	39.4	30.2	18.8	12.3	10.0	5.0	7.0	11.4	12.7	12.4	10.8	12.1	10.8	11.2	17.6	47.7
17-Feb	10.6	9.4	Z	9.2	10.3	11.1	11.6	9.8	8.4	5.5	3.6	3.6	2.9	3.3	3.2	4.2	4.8	2.8	4.2	3.9	4.0	3.4	2.4	2.1	5.8	11.6
18-Feb	2.4	2.1	1.7	Z	1.2	1.2	1.2	1.2	1.1	1.5	1.7	1.6	1.5	1.6	2.0	2.1	2.8	4.7	5.5	7.9	7.2	6.2	6.5	8.0	3.2	8.0
19-Feb	7.5	7.1	6.0	7.1	Z	9.6	11.1	10.5	7.6	5.9	4.4	3.3	3.2	3.1	3.1	4.9	8.9	21.3	29.0	24.1	19.0	18.1	18.7	28.2	11.4	29.0
20-Feb	28.8	31.2	30.5	29.6	31.7	Z	23.3	21.7	16.0	16.4	15.5	18.0	17.8	19.8	30.6	26.9	15.4	19.0	23.1	19.9	16.0	16.9	22.3	24.5	22.4	31.7
21-Feb	Z	24.1	25.5	24.1	23.9	25.8	26.5	26.9	26.9	24.1	17.7	7.1	5.3	4.4	3.7	5.2	8.3	7.7	8.3	7.7	5.2	5.9	7.3	7.9	14.3	26.9
22-Feb	7.9	Z	6.1	7.7	7.2	5.5	6.3	7.1	7.2	6.3	5.7	6.1	7.6	7.7	9.5	10.4	13.6	19.6	21.7	24.2	24.7	24.8	24.8	23.9	12.4	24.8
23-Feb	21.9	28.2	Z	22.5	11.9	6.5	8.3	9.8	5.9	8.7	10.7	11.6	14.7	20.6	21.8	19.1	26.1	32.1	35.3	35.2	34.9	35.1	33.1	28.2	21.0	35.3
24-Feb	26.5	36.2	74.9	Z	60.0	54.1	42.0	40.6	34.2	22.0	25.3	24.3	17.5	19.7	12.1	17.1	24.4	32.3	34.6	34.4	35.7	40.8	34.9	31.9	33.7	74.9
25-Feb	24.6	19.6	27.3	28.4	Z	28.9	30.7	32.3	24.8	19.1	23.9	20.9	14.1	15.8	15.2	23.7	36.2	38.5	32.8	21.9	18.5	15.9	13.8	15.1	23.6	38.5
26-Feb	17.4	15.6	19.3	17.0	12.4	Z	12.0	12.6	13.2	9.2	6.8	6.0	6.8	4.0	4.5	5.8	4.7	5.4	5.6	4.8	8.5	12.3	13.3	9.8	9.9	19.3
27-Feb	Z	8.9	11.5	13.7	11.9	15.1	17.9	21.3	14.3	7.9	4.9	5.1	4.9	4.1	6.2	6.7	6.2	6.7	9.5	17.8	26.7	26.1	23.2	20.1	12.6	26.7
28-Feb	15.5	Z	28.6	23.3	22.4	27.9	30.7	26.0	15.4	10.8	9.4	7.2	6.0	7.4	6.5	4.9	6.0	7.5	7.1	11.4	25.4	14.2	24.0	28.3	15.9	30.7
	20.7	19.8	21.2	18.9	20.3	18.0	18.5	18.2	17.8	15.6	12.8	11.1	9.7	10.9	12.0	13.0	14.9	18.3	19.9	21.0	20.9	20.3	20.0	20.3	Diurnal Average	
	37.7	39.6	74.9	36.5	60.0	54.1	42.0	40.6	42.5	47.7	39.4	35.4	43.8	47.9	46.2	60.2	41.4	38.5	35.3	40.2	41.6	41.3	41.7	41.5	Diurnal Maximum	

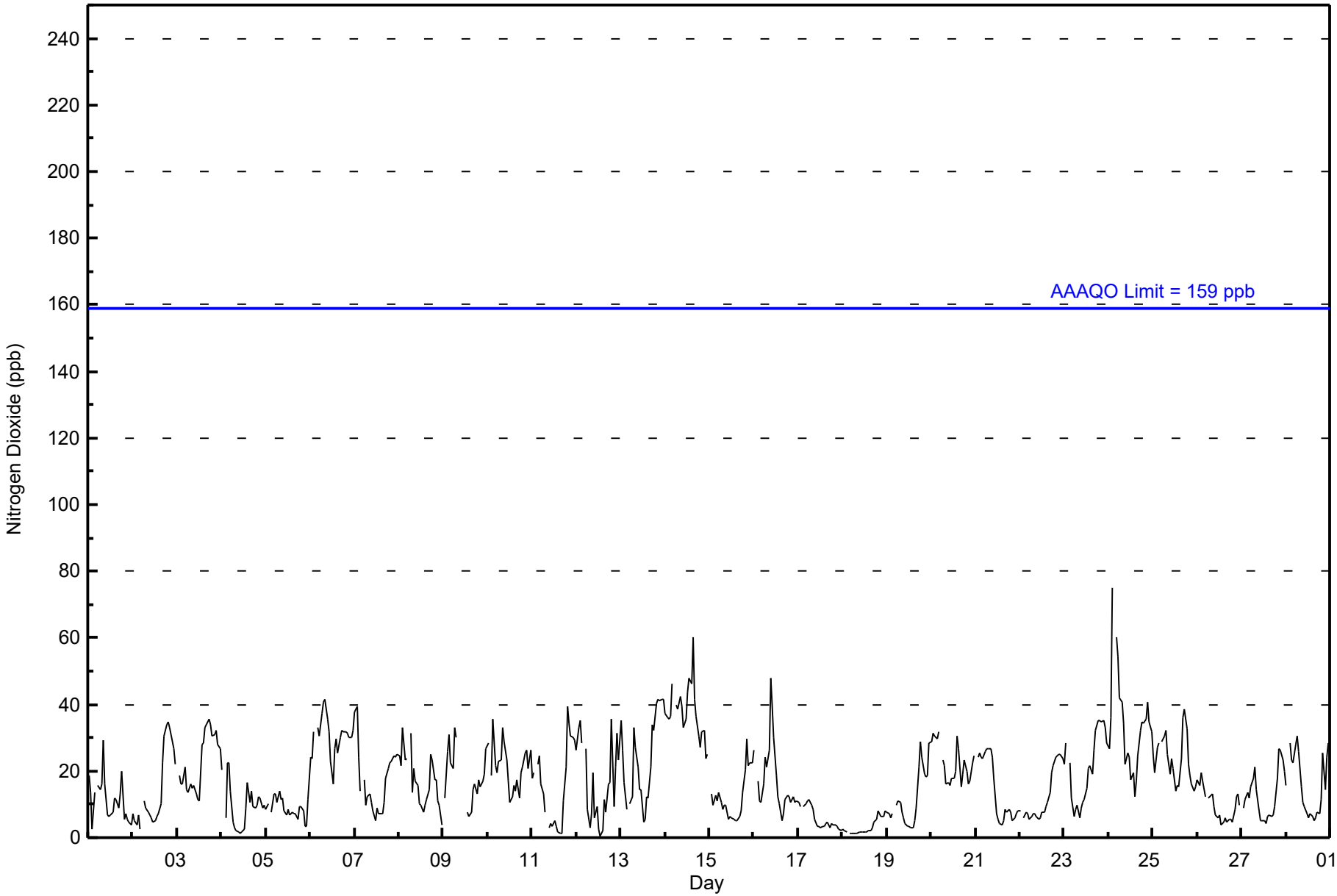
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Fort Hills - February 2026



Nitrogen Dioxide (NO_2) - ppb
Fort Hills - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	400	62.70	62.70
21 - 40	218	34.17	96.87
11 - 80	20	3.13	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Fort Hills - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	103	94	29	4	2	11	19	53	40	26	9	0	3	3	1	3	400
21 - 40	42	23	4	3	4	4	30	24	10	22	9	1	4	0	12	26	218
11 - 80	5	2	0	0	2	0	4	3	0	0	0	0	0	1	0	3	20
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	150	119	33	7	8	15	53	80	50	48	18	1	7	4	13	32	638

Total Number of Valid Hours: 638

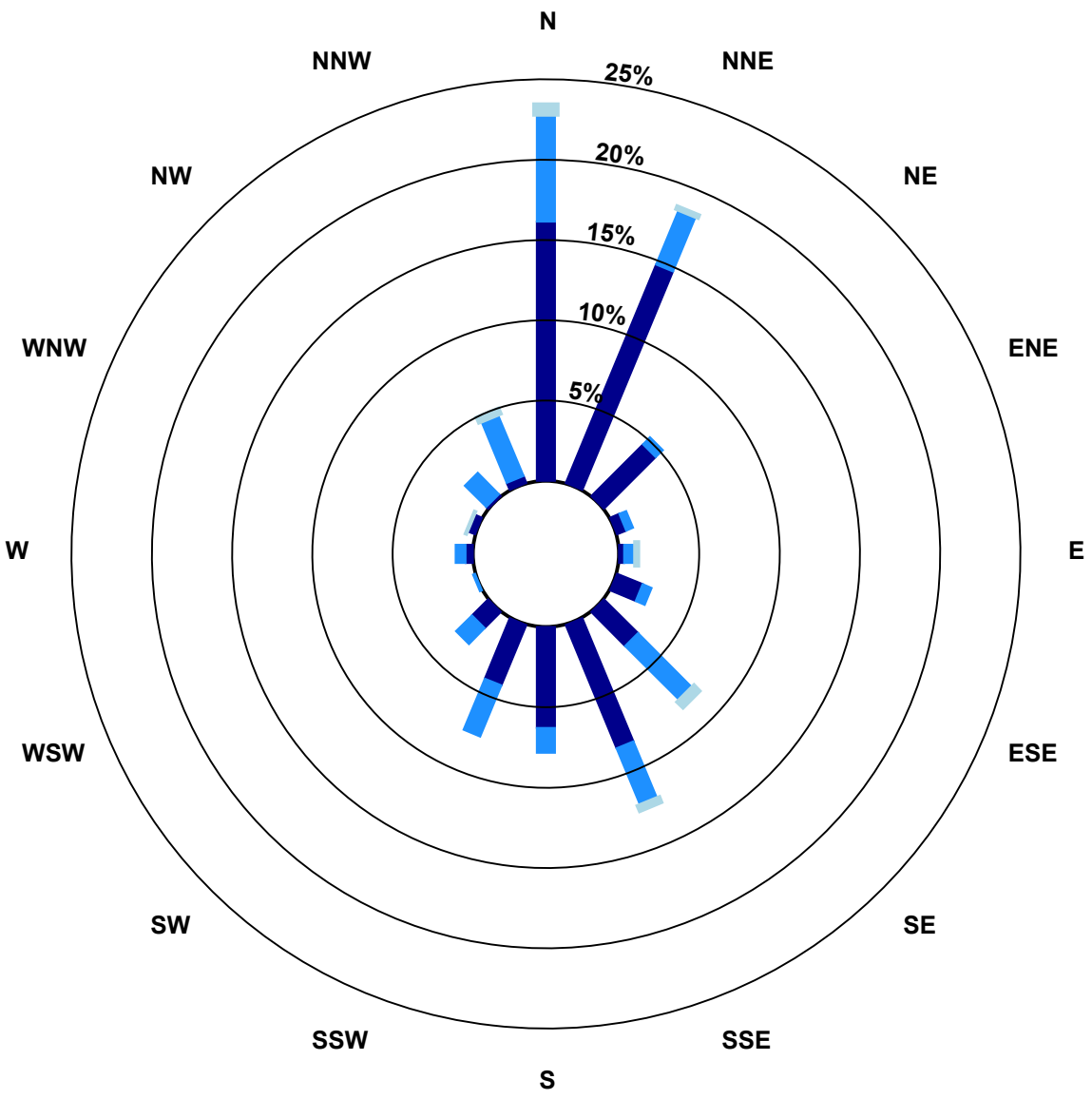
Total Number of Hours: 672

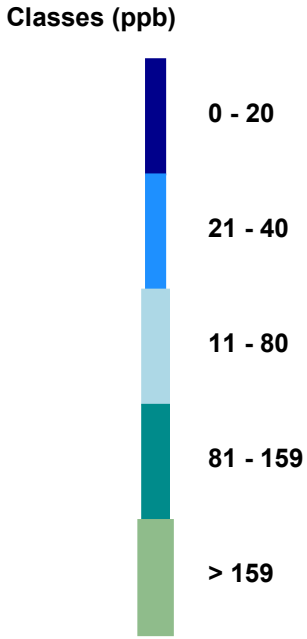
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Fort Hills





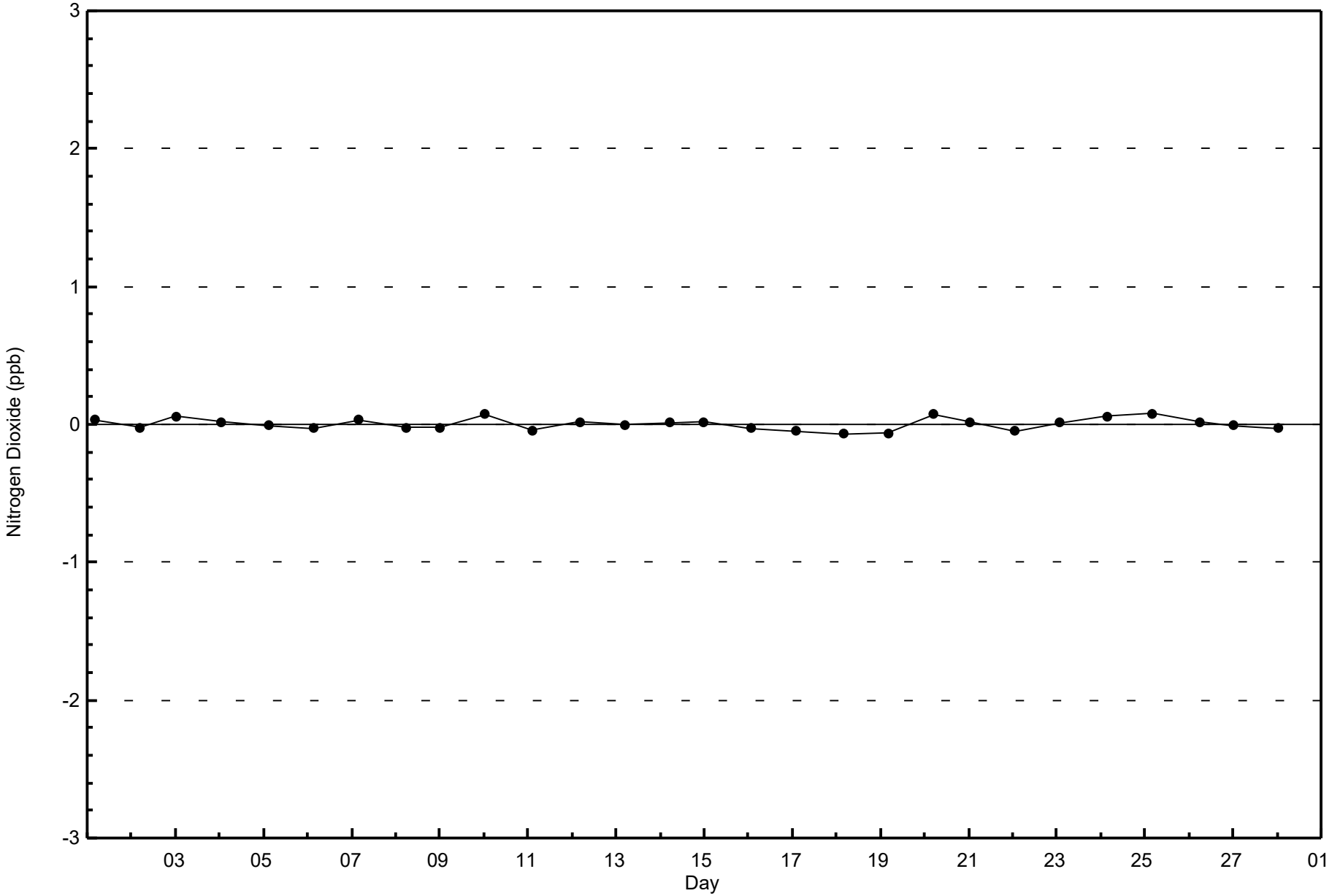
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Fort Hills - February 2026

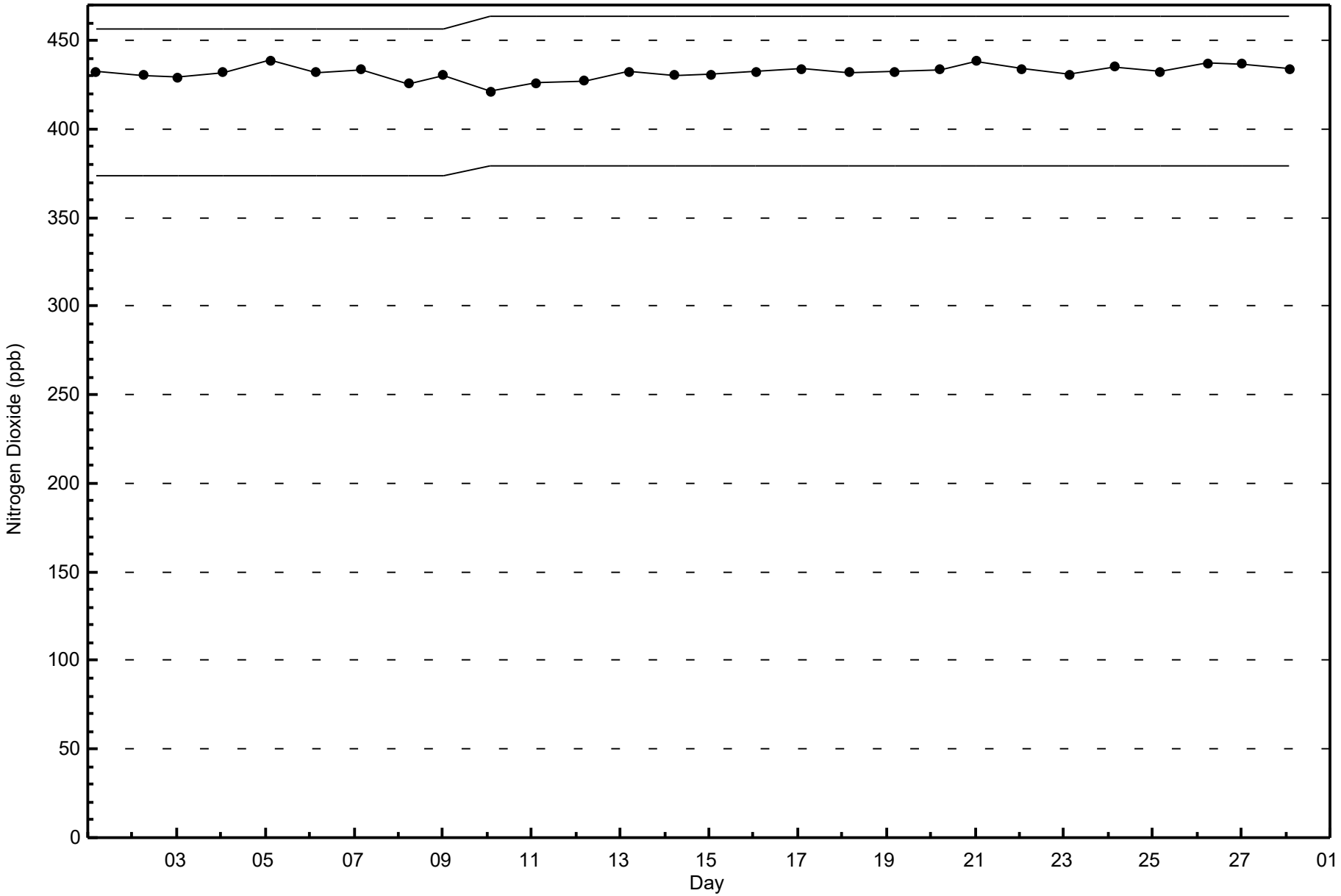


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Fort Hills - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Fort Hills - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 438.4 ppb on Feb 24 03:00

Maximum Daily Average: 120.2 ppb on Feb 14

Minimum Value: 0.6 ppb on Feb 12 14:00

Minimum Daily Average: 9.3 ppb on Feb 17

Maximum Diurnal Average: 49.5 ppb at hour 3

Minimum Diurnal Average: 25.4 ppb at hour 13

Monthly Average: 35.69 ppb

Percentiles: P_1 = 2.2 P_{10} = 7.0 Q_1 = 11.0 Median = 19.7 Q_3 = 42.1 P_{90} = 79.1 P_{99} = 206.2

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	20.0	13.7	2.6	14.8	Z	17.8	14.7	16.5	35.7	19.6	8.2	8.4	9.5	11.1	17.7	14.7	9.7	13.4	20.6	5.7	7.0	5.3	4.6	3.7	12.8	35.7
2-Feb	7.3	5.2	3.9	6.8	2.4	Z	11.1	9.0	8.0	7.6	8.0	6.4	6.8	9.3	10.8	14.5	44.1	71.3	105.4	134.6	114.1	49.2	43.1	26.4	30.7	134.6
3-Feb	Z	20.8	18.1	17.3	23.8	15.7	14.5	17.0	16.8	19.8	18.1	15.8	16.3	62.2	53.8	74.0	60.9	68.9	58.5	41.2	48.8	86.3	52.5	58.2	38.2	86.3
4-Feb	23.9	Z	6.1	53.2	54.1	24.1	4.5	3.1	2.2	1.6	1.7	1.9	4.1	15.2	30.7	16.1	16.7	10.4	9.4	10.2	13.2	13.3	9.5	10.5	14.6	54.1
5-Feb	9.4	11.0	Z	8.1	14.4	15.4	11.8	14.9	13.0	14.3	11.6	10.6	13.1	10.0	11.0	8.9	8.1	5.3	9.8	9.6	8.4	3.3	3.3	11.5	10.3	15.4
6-Feb	25.5	25.2	35.5	Z	39.7	34.1	81.2	124.6	145.2	93.3	70.6	40.4	25.6	66.3	67.8	39.9	50.8	58.6	61.3	80.2	94.4	75.6	73.1	126.4	66.8	145.2
7-Feb	178.7	186.9	35.6	15.4	Z	19.3	10.8	13.4	14.7	13.7	11.0	7.4	12.9	10.1	10.2	9.1	12.0	19.1	22.7	24.7	25.0	26.6	25.5	26.6	31.8	186.9
8-Feb	25.4	23.2	40.5	26.7	25.6	Z	49.2	14.7	27.0	22.8	23.9	16.0	16.2	12.3	14.9	16.5	17.7	29.1	25.2	19.1	18.4	11.6	9.9	3.9	21.3	49.2
9-Feb	Z	11.9	36.6	56.4	22.9	34.0	75.8	53.0	C	C	C	C	C	12.4	9.5	10.0	17.3	17.2	13.8	18.2	16.2	17.9	20.0	27.7	26.1	75.8
10-Feb	29.4	Z	20.0	41.2	26.0	19.7	23.0	23.7	55.7	50.3	48.2	32.3	17.3	21.8	34.0	25.1	28.1	12.3	21.1	24.7	64.4	69.3	35.0	67.6	34.4	69.3
11-Feb	22.3	27.5	Z	25.1	29.3	16.3	13.4	7.5	M	3.6	6.1	5.8	8.0	5.6	2.3	1.2	1.4	11.2	31.3	156.2	109.9	63.7	66.5	52.9	30.3	156.2
12-Feb	35.8	130.9	159.9	45.3	Z	32.2	8.3	2.9	8.5	35.8	10.3	19.1	4.6	0.6	2.7	13.6	8.1	16.1	19.6	67.8	9.5	23.6	33.6	23.3	31.0	159.9
13-Feb	37.5	27.2	16.5	8.4	Z	10.3	12.1	35.7	30.0	28.8	22.6	23.8	7.1	8.3	18.1	15.7	25.5	38.9	40.3	78.6	97.9	109.4	131.6	132.8	41.6	132.8
14-Feb	82.9	76.7	70.5	100.4	206.8	Z	130.0	163.6	225.4	189.3	134.0	146.8	181.5	190.1	152.5	269.9	134.3	77.6	38.6	31.7	50.4	51.6	28.5	32.4	120.2	269.9
15-Feb	Z	14.6	10.8	13.6	12.2	14.8	11.4	9.2	11.3	12.9	7.9	10.4	11.6	10.6	9.1	7.9	8.4	9.2	14.7	22.9	43.5	25.7	28.9	29.2	15.2	43.5
16-Feb	41.1	Z	18.7	11.4	12.1	19.0	42.2	29.6	102.7	240.4	205.3	146.7	69.9	33.7	28.5	10.6	11.9	17.5	19.0	19.0	14.8	17.6	15.2	15.8	49.7	240.4
17-Feb	14.8	13.1	Z	12.8	15.8	18.0	19.5	15.7	14.1	9.8	6.6	6.9	5.5	5.6	5.6	6.4	7.0	3.5	5.4	5.2	5.8	5.8	5.5	6.2	9.3	19.5
18-Feb	8.1	10.3	7.8	Z	6.2	5.6	6.3	6.8	5.9	6.9	6.7	6.7	7.5	6.2	8.2	7.4	8.9	12.3	12.2	25.5	21.9	11.0	12.7	24.9	10.3	25.5
19-Feb	14.5	9.9	6.7	9.7	Z	44.9	64.0	40.8	30.9	29.2	23.4	15.6	12.9	10.3	7.9	9.8	13.7	38.7	49.9	29.2	20.4	18.8	19.5	33.3	24.1	64.0
20-Feb	33.3	41.0	39.7	36.1	39.4	Z	25.1	22.5	21.1	31.4	33.5	43.4	43.2	47.7	88.7	65.6	22.9	22.6	29.4	24.3	18.3	20.3	29.6	33.4	35.3	88.7
21-Feb	Z	39.5	45.1	42.3	42.7	55.1	69.0	74.3	86.5	73.6	45.1	12.7	9.6	8.3	7.2	8.3	11.6	9.1	9.9	9.9	7.3	9.2	12.8	14.9	30.6	86.5
22-Feb	14.9	Z	10.5	15.5	17.2	11.9	15.5	17.7	19.4	20.3	18.6	21.5	27.8	26.7	30.0	28.6	32.9	50.7	59.2	82.0	94.5	86.6	92.5	73.7	37.8	94.5
23-Feb	44.5	108.8	Z	30.4	14.6	6.5	8.3	10.0	7.3	13.7	22.4	28.8	42.0	55.8	57.0	46.4	55.1	54.4	70.1	70.5	71.1	73.9	62.6	39.6	43.2	108.8
24-Feb	37.8	113.7	438.4	Z	340.7	267.9	144.5	140.9	103.5	66.0	99.6	98.8	60.9	70.8	28.4	38.2	55.2	69.3	78.4	80.1	97.5	155.2	91.1	69.2	119.4	438.4
25-Feb	34.0	20.9	31.5	34.1	Z	29.9	51.8	75.5	51.2	44.1	76.7	60.9	29.4	30.9	26.8	42.0	85.9	91.8	48.2	23.8	20.6	17.6	15.0	16.9	41.7	91.8
26-Feb	19.8	17.2	21.8	19.3	14.0	Z	13.9	14.3	15.8	12.5	9.4	8.9	10.9	6.8	7.5	8.8	6.7	6.5	6.6	5.7	10.1	14.9	15.2	11.2	12.1	21.8
27-Feb	Z	9.9	12.6	16.3	14.1	18.5	22.6	31.6	26.2	17.3	13.9	17.9	17.2	13.9	20.8	20.7	14.1	10.1	12.5	25.4	61.6	59.9	48.7	35.9	23.6	61.6
28-Feb	20.1	Z	99.7	47.4	46.4	91.7	121.0	74.4	31.8	26.0	25.3	18.8	14.8	17.4	13.7	8.4	8.4	8.4	7.2	11.5	28.5	14.4	26.1	34.6	34.6	121.0
	34.0	41.7	49.5	28.3	46.4	35.8	38.4	38.0	42.7	40.9	35.9	30.8	25.4	27.9	27.7	29.9	27.8	30.5	32.2	40.6	42.6	40.6	36.1	37.2	Diurnal Average	
	178.7	186.9	438.4	100.4	340.7	267.9	144.5	163.6	225.4	240.4	205.3	146.8	181.5	190.1	152.5	269.9	134.3	91.8	105.4	156.2	114.1	155.2	131.6	132.8	Diurnal Maximum	

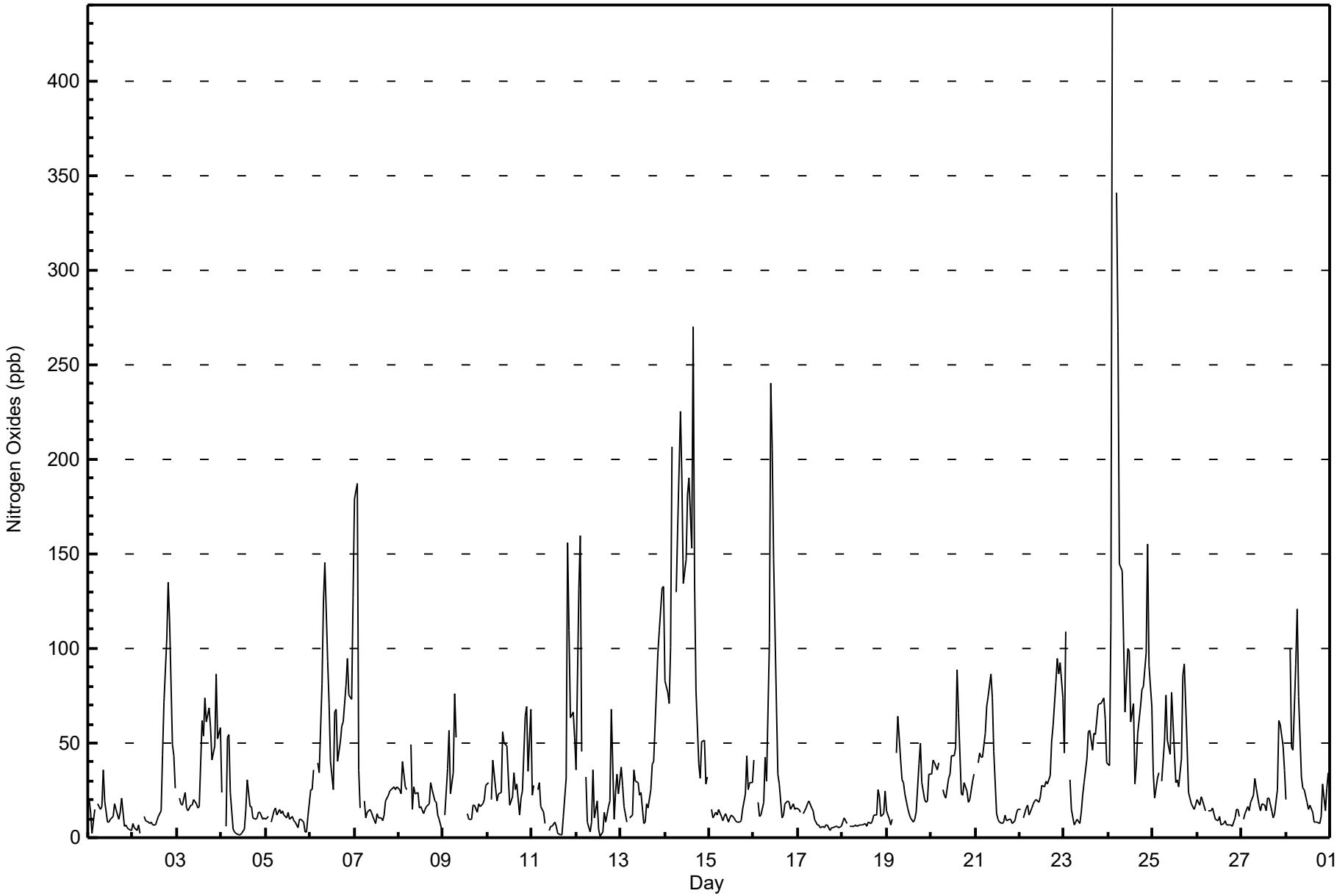
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Fort Hills - February 2026



Nitrogen Oxides (NO_X) - ppb
Fort Hills - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	328	51.41	51.41
21 - 40	142	22.26	73.67
11 - 80	106	16.61	90.28
81 - 159	46	7.21	97.49
> 159	15	2.35	99.84

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Fort Hills - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	89	86	25	3	1	4	7	42	37	21	5	0	3	2	1	2	328
21 - 40	29	17	7	1	1	3	19	18	8	12	10	0	2	1	6	8	142
11 - 80	16	10	1	3	4	7	16	12	5	12	3	1	2	0	5	9	106
81 - 159	14	4	0	0	0	1	7	7	0	3	0	0	0	1	1	8	46
> 159	2	2	0	0	2	0	4	1	0	0	0	0	0	0	0	4	15
Totals	150	119	33	7	8	15	53	80	50	48	18	1	7	4	13	31	637

Total Number of Valid Hours: 638

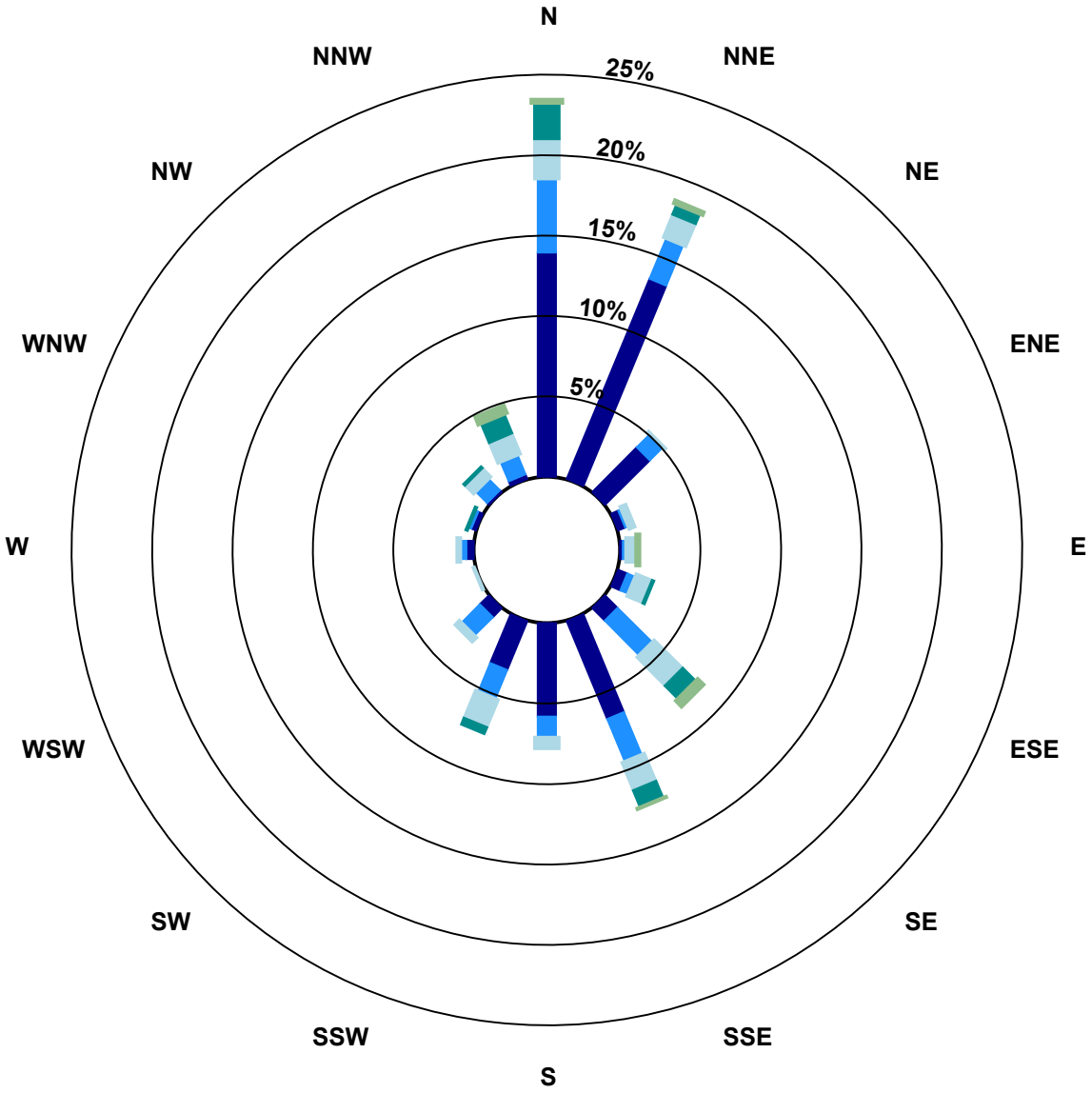
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Fort Hills



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

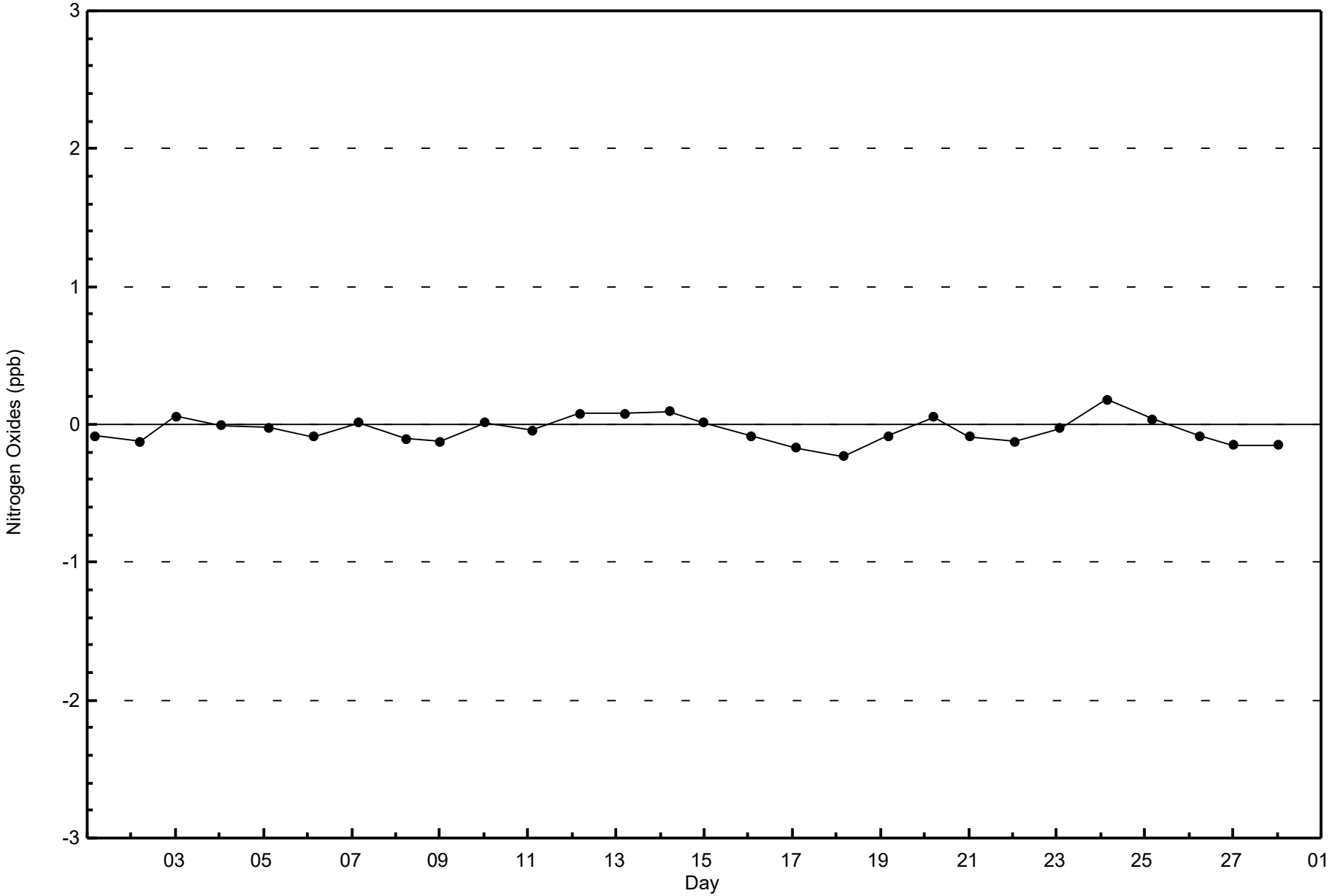
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Fort Hills - February 2026

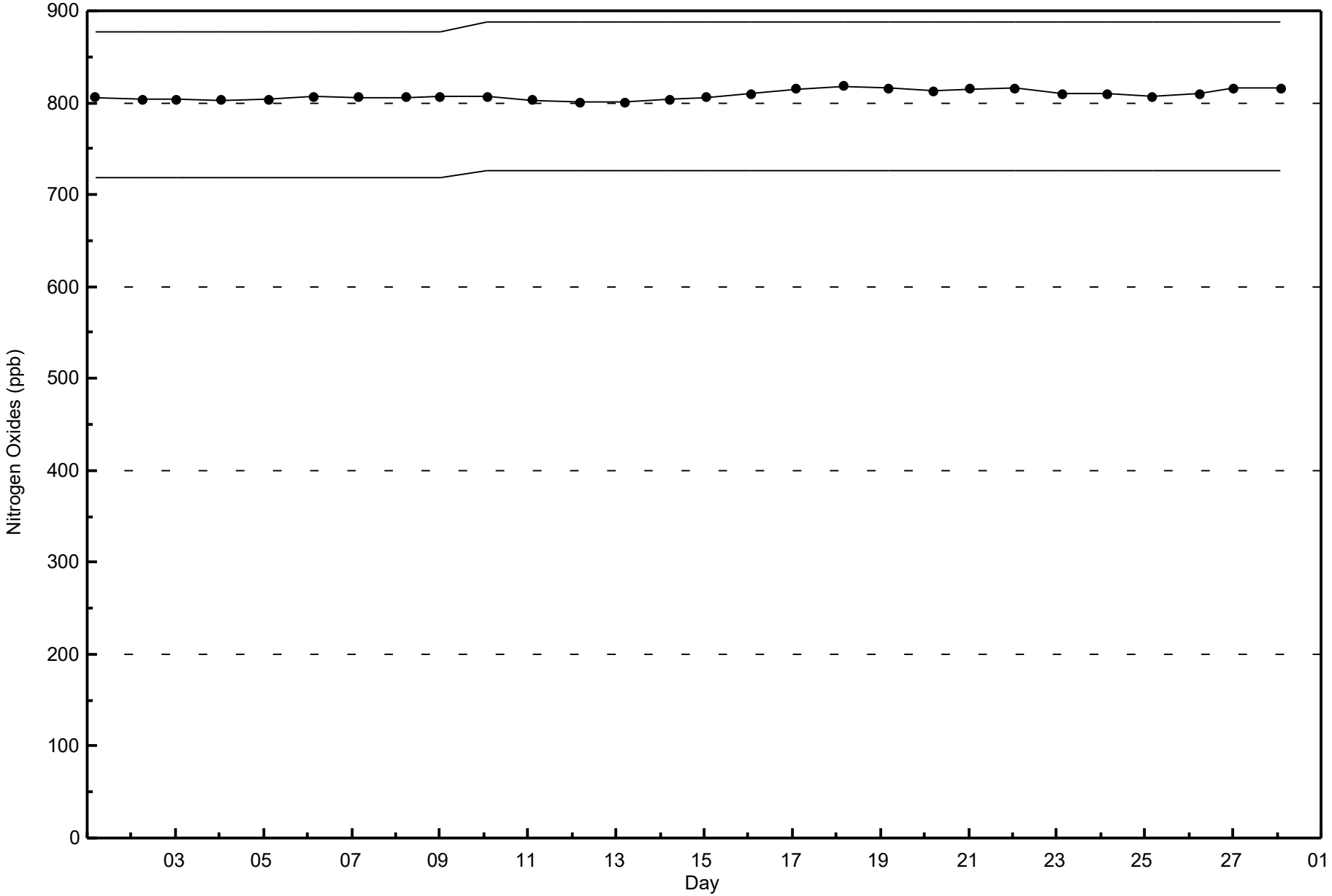


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Fort Hills - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort Hills - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 67.2 $\mu g/m^3$ on Feb 16 10:00

Maximum Daily Average: 18.6 $\mu g/m^3$ on Feb 16

Minimum Value: 0.9 $\mu g/m^3$ on Feb 12 15:00

Minimum Daily Average: 2.4 $\mu g/m^3$ on Feb 12

Maximum Diurnal Average: 7.3 $\mu g/m^3$ at hour 10

Minimum Diurnal Average: 5.1 $\mu g/m^3$ at hour 6

Monthly Average: 5.67 $\mu g/m^3$

Percentiles: P_1 = 1.7 P_{10} = 2.7 Q_1 = 3.4 Median = 4.5 Q_3 = 6.6 P_{90} = 9.0 P_{99} = 20.8

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	1
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	3.6	3.6	2.7	2.9	3.7	3.3	3.3	4.3	5.7	4.6	3.6	3.5	3.3	3.3	3.1	3.4	3.5	3.0	3.1	2.6	2.8	2.7	2.7	2.8	3.4	5.7
2-Feb	3.4	3.1	4.5	5.9	3.0	2.9	3.9	3.4	3.4	3.6	4.4	4.4	4.6	4.8	5.1	5.3	7.2	8.8	8.3	8.8	8.6	9.1	7.7	7.9	5.5	9.1
3-Feb	5.9	5.7	5.3	5.1	5.4	5.0	4.3	4.3	4.3	4.3	4.3	4.5	4.8	6.2	6.8	8.2	9.0	8.2	6.6	6.3	8.6	8.9	9.5	10.7	6.3	10.7
4-Feb	8.9	6.4	6.0	8.6	11.1	10.2	9.3	7.5	6.2	4.6	3.5	3.1	2.7	2.7	2.9	2.3	3.2	4.1	4.2	4.1	4.1	3.8	3.6	3.3	5.3	11.1
5-Feb	3.6	3.4	3.2	2.6	2.6	2.7	2.7	2.7	2.5	2.4	2.4	2.2	2.5	2.5	2.6	2.3	2.4	2.5	2.5	2.7	2.8	2.9	2.9	3.6	2.7	3.6
6-Feb	4.3	3.7	4.1	4.7	5.8	7.2	8.1	9.0	9.5	7.7	7.1	6.2	4.8	6.1	7.0	5.5	6.5	6.8	6.7	7.1	7.3	7.0	7.0	7.7	6.5	9.5
7-Feb	8.4	9.5	6.0	5.6	3.8	3.8	3.6	3.9	3.7	3.7	3.3	3.2	3.3	3.1	3.2	3.2	3.5	3.9	3.8	3.9	4.0	3.7	3.6	3.6	4.2	9.5
8-Feb	3.6	3.5	4.0	3.7	3.7	4.5	4.2	3.5	3.7	3.7	3.7	3.4	3.3	3.2	3.2	3.6	4.3	4.5	4.3	4.3	4.5	4.2	4.4	4.2	3.9	4.5
9-Feb	4.6	4.9	5.3	5.8	5.1	5.3	6.4	5.7	7.2	4.7	4.1	4.0	3.4	3.1	3.0	5.3	6.2	4.7	5.3	6.1	3.9	4.1	3.3	3.2	4.8	7.2
10-Feb	3.2	3.2	2.9	3.6	3.5	3.6	4.8	5.8	7.2	8.7	9.1	9.0	9.4	10.4	9.3	9.4	8.5	7.0	7.2	7.1	7.9	8.2	7.5	8.4	6.9	10.4
11-Feb	8.0	7.9	7.8	8.1	8.5	6.5	5.5	4.7	C	3.4	3.2	3.0	3.2	3.1	2.4	1.8	1.6	1.8	2.2	7.0	6.3	5.0	5.6	4.5	4.8	8.5
12-Feb	4.3	5.9	6.5	3.1	2.5	2.5	1.9	1.7	1.8	2.5	1.4	2.1	1.2	1.2	0.9	2.1	2.2	2.1	1.7	2.7	1.6	1.7	2.5	2.0	2.4	6.5
13-Feb	1.7	1.6	2.0	2.0	2.5	2.7	2.7	3.4	3.3	3.2	3.1	3.6	2.6	2.3	2.6	2.4	2.5	2.9	3.0	3.6	4.1	4.2	4.8	5.5	3.0	5.5
14-Feb	4.3	4.2	4.5	4.9	6.6	6.1	8.0	10.9	13.7	9.3	7.5	9.9	12.2	15.5	15.1	27.1	21.2	13.8	10.1	6.9	9.8	10.2	6.6	8.2	10.3	27.1
15-Feb	6.1	5.3	5.5	5.7	6.0	5.3	5.3	4.8	5.5	6.4	4.4	6.1	7.5	7.1	5.8	4.9	4.5	3.1	7.5	9.2	19.2	9.7	9.7	14.7	7.1	19.2
16-Feb	20.6	14.6	7.3	4.1	3.9	6.0	8.1	6.9	38.9	67.2	65.8	45.5	26.6	15.1	15.2	8.4	8.7	16.7	13.8	12.0	11.5	9.2	9.4	10.2	18.6	67.2
17-Feb	11.0	8.0	8.2	7.5	7.2	7.7	6.6	6.5	7.7	7.9	14.2	15.3	11.4	12.1	12.8	11.3	14.3	13.3	9.4	7.9	7.3	6.3	7.1	6.0	9.5	15.3
18-Feb	5.4	5.3	5.4	6.6	5.6	4.9	4.9	5.2	4.3	4.7	4.2	3.8	3.7	3.4	3.0	2.8	2.8	2.6	2.7	3.4	3.0	2.3	2.5	3.1	4.0	6.6
19-Feb	3.2	2.4	2.0	2.2	3.1	3.9	4.2	4.1	3.9	4.2	4.6	3.8	4.1	3.7	3.3	3.2	2.9	3.2	3.9	3.2	3.2	3.1	3.1	3.7	3.4	4.6
20-Feb	4.1	4.5	4.1	9.8	4.5	4.9	4.9	4.8	4.9	5.5	6.4	5.5	6.4	7.4	11.8	9.5	3.5	3.1	4.6	6.5	4.8	4.3	4.4	4.2	5.6	11.8
21-Feb	4.1	4.8	5.0	4.6	4.8	5.7	6.3	5.8	8.0	6.6	5.3	3.2	3.2	3.4	3.6	4.6	5.1	4.9	5.0	5.2	4.7	4.7	4.5	4.2	4.9	8.0
22-Feb	5.3	5.2	4.5	4.6	4.2	4.3	4.2	4.5	4.4	4.1	4.0	4.1	4.0	3.8	3.8	3.8	4.1	4.2	4.7	7.8	6.8	5.2	4.5	4.5	4.6	7.8
23-Feb	3.9	5.3	4.9	2.8	2.4	2.1	2.2	2.3	2.5	2.7	3.3	3.5	3.8	4.3	4.6	4.6	4.5	4.6	4.6	4.8	4.6	4.9	4.6	3.7	3.8	5.3
24-Feb	3.6	5.9	15.4	16.9	13.5	11.3	8.5	8.1	7.6	6.1	6.5	7.2	5.6	6.4	5.4	6.1	7.4	6.5	7.8	7.2	7.5	9.2	6.3	5.6	8.0	16.9
25-Feb	4.4	4.1	4.8	5.0	6.8	5.4	6.3	6.0	5.2	6.5	6.8	8.0	7.2	7.2	7.8	6.8	8.7	9.1	7.5	4.4	4.3	4.2	4.0	3.8	6.0	9.1
26-Feb	3.8	3.8	3.9	4.5	4.4	4.3	3.7	3.2	3.6	4.4	4.2	5.2	5.8	6.6	6.3	6.6	4.3	3.4	3.6	3.8	3.2	3.2	3.0	3.0	4.2	6.6
27-Feb	3.1	3.1	3.0	3.1	3.3	3.9	3.9	4.5	3.9	3.7	3.4	3.5	3.3	3.4	3.7	3.7	3.4	2.7	2.9	4.6	6.0	5.3	4.6	3.8	3.7	6.0
28-Feb	3.0	5.2	6.3	4.7	4.8	5.8	7.6	7.1	7.4	9.0	8.1	6.7	6.3	4.5	3.6	3.6	3.6	3.8	3.6	3.7	5.9	4.7	4.7	4.9	5.4	9.0
	5.3	5.1	5.2	5.3	5.1	5.1	5.2	5.2	6.7	7.3	7.2	6.5	5.7	5.6	5.6	5.8	5.7	5.5	5.4	5.6	6.0	5.4	5.1	5.4	Diurnal Average	
	20.6	14.6	15.4	16.9	13.5	11.3	9.3	10.9	38.9	67.2	65.8	45.5	26.6	15.5	15.2	27.1	21.2	16.7	13.8	12.0	19.2	10.2	9.7	14.7	Diurnal Maximum	

C - Calibration

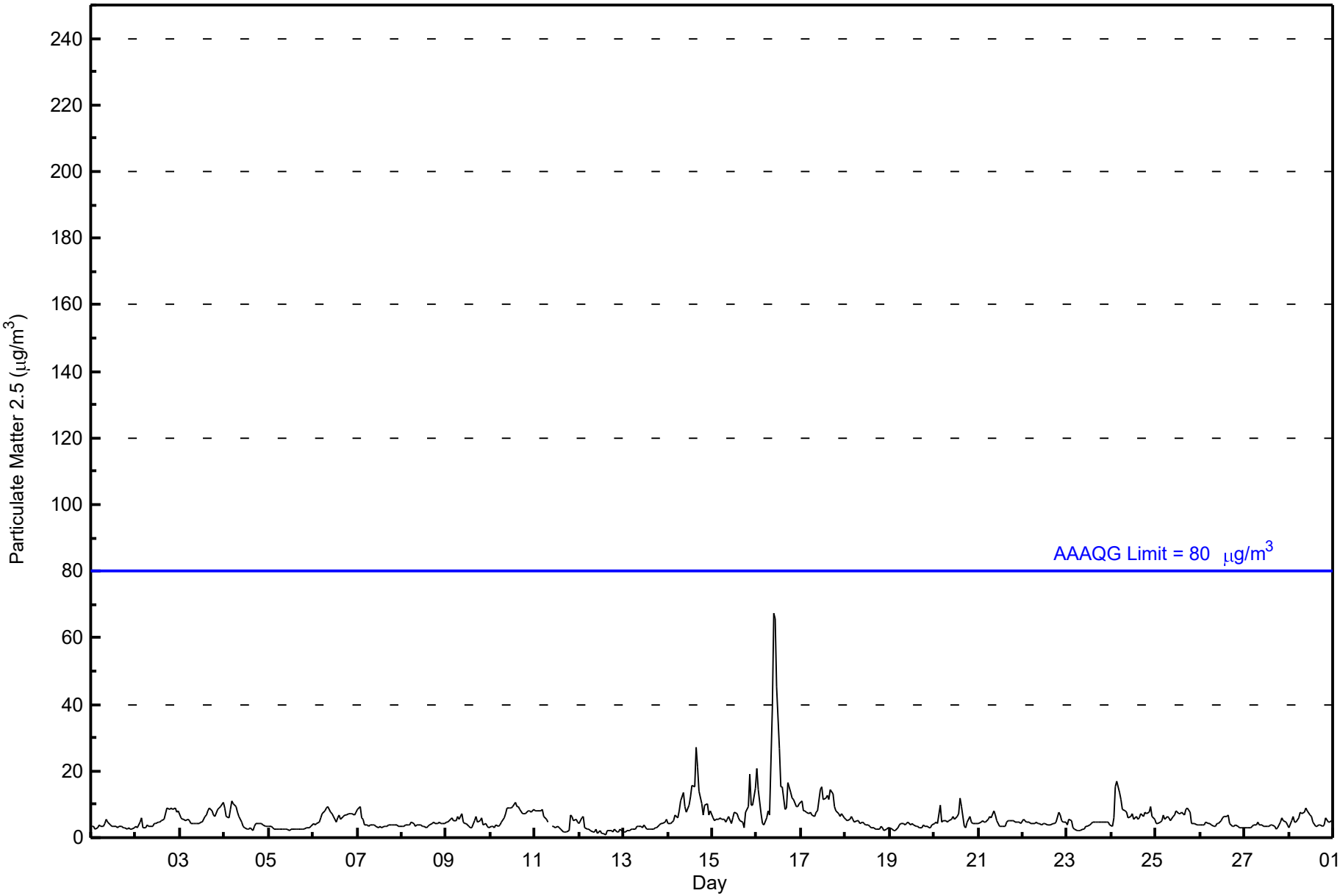
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort Hills - February 2026





Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort Hills - February 2026

Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	434	64.68	64.68
6 - 15	226	33.68	98.36
16 - 25	5	0.75	99.11
26 - 80	6	0.89	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 671

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort Hills - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	103	86	26	4	6	9	22	62	42	27	13	0	5	4	8	17	434
6 - 15	51	38	7	3	2	8	34	21	10	22	6	1	2	0	6	15	226
16 - 25	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	1	5
26 - 80	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	6
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	158	127	33	7	8	17	57	83	52	49	19	1	7	4	15	34	671

Total Number of Valid Hours: 671

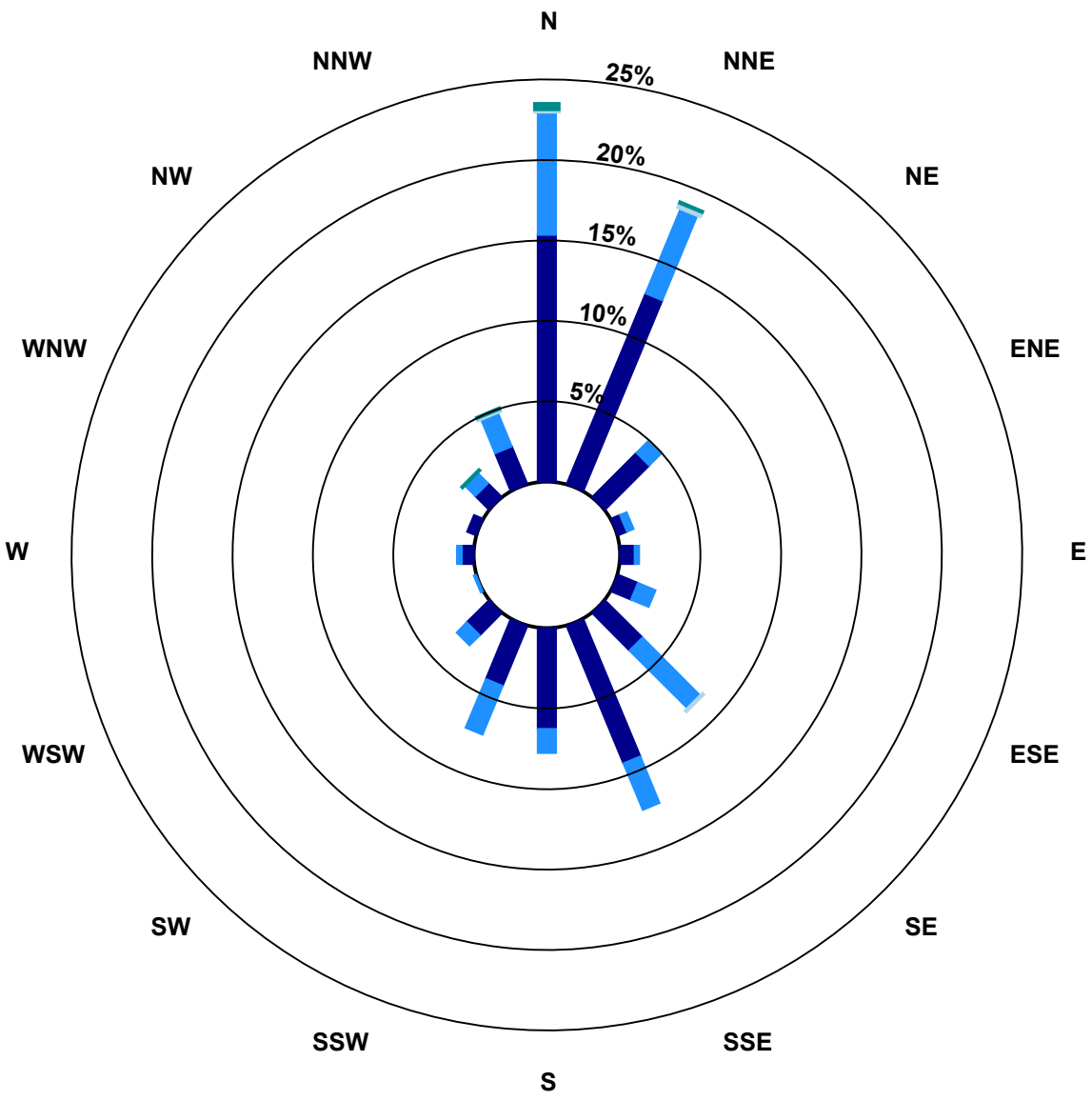
Total Number of Hours: 672

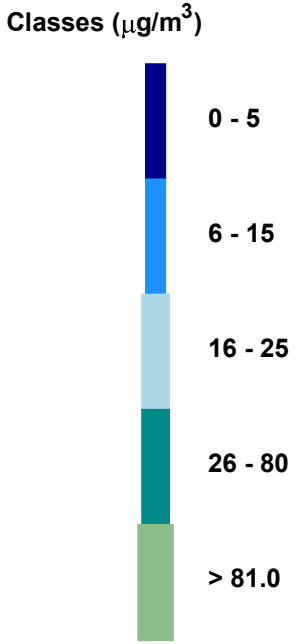
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Fort Hills





Total Number of Valid Hours: 671

Maximum Value: 9.5 C on Feb 4 16:00

Maximum Daily Average: 0.2 C on Feb 13

Minimum Value: -35.4 C on Feb 19 06:00

Minimum Daily Average: -30.5 C on Feb 18

Maximum Diurnal Average: -12.3 C at hour 16

Minimum Diurnal Average: -18.2 C at hour 8

Monthly Average: -15.80 C

Percentiles: P_1 = -34.8 P_{10} = -27.9 Q_1 = -23.0 Median = -15.4 Q_3 = -9.5 P_{90} = -4.1 P_{99} = 4.4

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

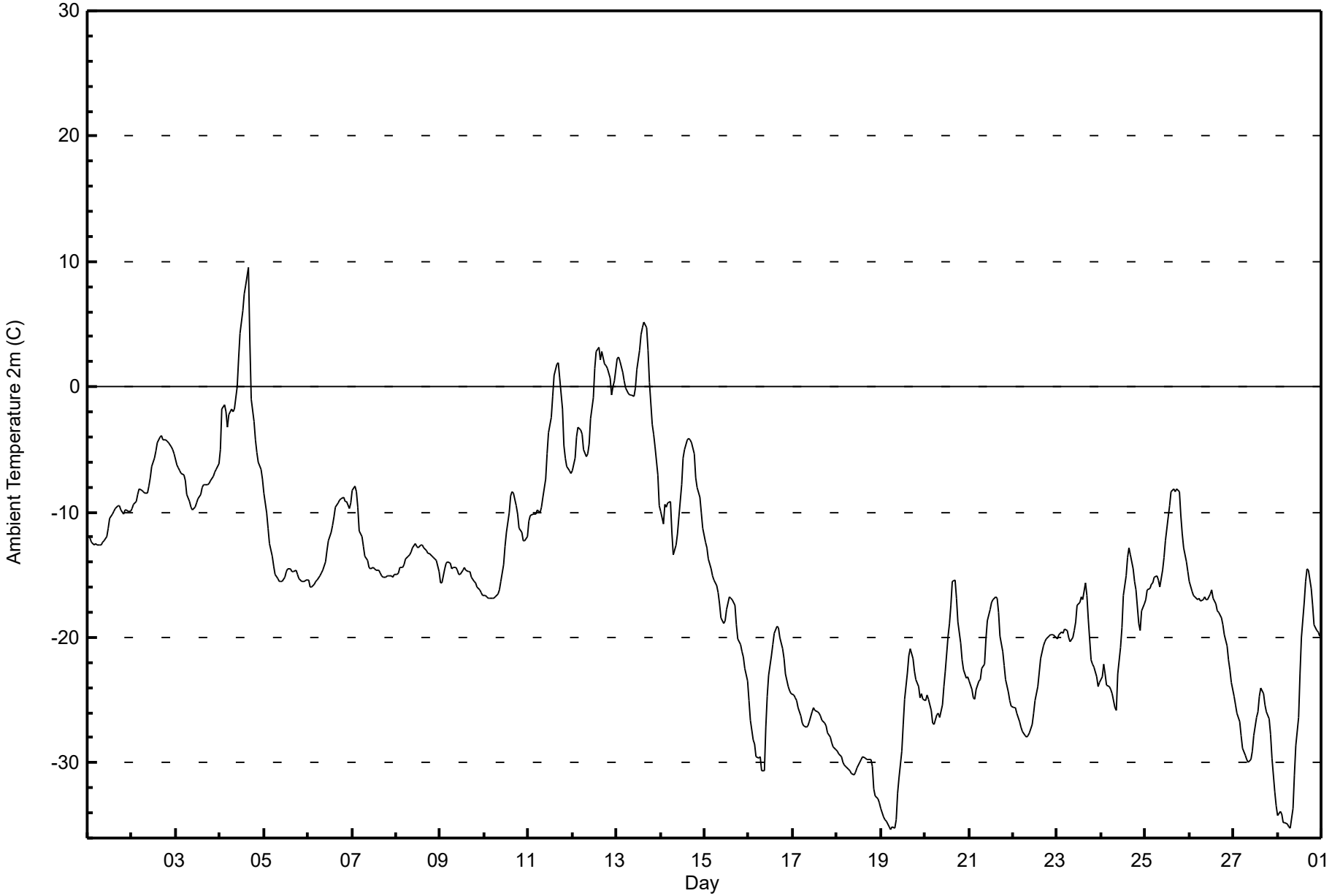
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.9	-12.0	-12.4	-12.6	-12.5	-12.6	-12.7	-12.6	-12.4	-12.3	-12.0	-11.2	-10.5	-10.2	-9.9	-9.7	-9.4	-9.5	-9.8	-10.2	-9.9	-9.9	-9.9	-10.0	-11.1	-9.4
2-Feb	-9.7	-9.3	-9.1	-8.6	-8.2	-8.2	-8.3	-8.5	-8.4	-8.0	-7.2	-6.3	-5.7	-5.1	-4.4	-4.1	-3.9	-4.3	-4.3	-4.3	-4.4	-4.8	-5.0	-5.4	-6.5	-3.9
3-Feb	-6.2	-6.5	-6.7	-6.9	-7.0	-7.4	-8.6	-9.2	-9.6	-9.8	-9.6	-9.2	-8.9	-8.6	-8.0	-7.8	-7.8	-7.8	-7.7	-7.5	-7.2	-6.8	-6.5	-6.1	-7.8	-6.1
4-Feb	-5.0	-1.8	-1.4	-1.9	-3.2	-2.3	-1.8	-2.0	-1.8	0.0	2.3	4.3	6.0	7.3	8.0	9.5	3.7	-1.0	-2.8	-4.2	-5.2	-6.0	-6.6	-7.4	-0.5	9.5
5-Feb	-8.5	-10.1	-11.3	-12.5	-13.5	-14.3	-14.9	-15.3	-15.5	-15.6	-15.5	-15.2	-14.7	-14.6	-14.5	-14.7	-14.7	-14.6	-15.0	-15.3	-15.6	-15.6	-15.6	-15.4	-14.3	-8.5
6-Feb	-15.4	-15.9	-16.0	-15.8	-15.5	-15.4	-15.1	-14.9	-14.6	-14.0	-13.1	-12.2	-11.6	-11.0	-10.3	-9.6	-9.3	-9.1	-8.9	-8.8	-9.1	-9.2	-9.7	-9.3	-12.2	-8.8
7-Feb	-8.3	-7.9	-8.4	-9.6	-11.5	-12.0	-12.7	-13.5	-13.9	-14.5	-14.5	-14.4	-14.5	-14.7	-14.6	-14.8	-15.1	-15.2	-15.2	-15.1	-15.1	-15.1	-15.2	-15.0	-13.4	-7.9
8-Feb	-14.9	-14.8	-14.4	-14.4	-14.1	-13.7	-13.5	-13.4	-13.2	-12.9	-12.5	-12.7	-12.8	-12.6	-12.6	-12.8	-13.1	-13.2	-13.3	-13.5	-13.6	-13.7	-13.8	-14.7	-13.5	-12.5
9-Feb	-15.6	-15.6	-14.5	-14.1	-14.0	-14.0	-14.6	-14.4	-14.4	-14.6	-15.0	-14.9	-14.6	-14.4	-14.7	-14.7	-14.7	-15.2	-15.5	-15.7	-15.9	-16.2	-16.4	-16.6	-15.0	-14.0
10-Feb	-16.7	-16.8	-16.9	-16.8	-16.9	-16.9	-16.7	-16.6	-16.3	-15.5	-14.1	-12.7	-11.6	-10.0	-8.7	-8.4	-8.4	-9.5	-10.1	-11.3	-11.6	-12.3	-12.3	-11.9	-13.3	-8.4
11-Feb	-10.8	-10.3	-10.2	-10.1	-10.2	-9.8	-10.1	-9.6	-8.8	-7.3	-5.3	-3.6	-2.4	-0.8	0.9	1.8	1.9	0.7	-1.8	-4.6	-5.7	-6.4	-6.7	-6.9	-5.7	1.9
12-Feb	-6.7	-5.7	-4.0	-3.2	-3.5	-3.8	-5.0	-5.6	-5.4	-4.5	-2.5	-0.9	1.5	2.8	3.1	2.1	2.9	1.8	1.7	1.5	0.7	-0.7	0.0	0.5	-1.4	3.1
13-Feb	2.3	2.4	2.1	1.2	0.5	-0.1	-0.6	-0.6	-0.7	-0.8	-0.1	1.4	2.9	4.2	4.7	5.1	4.7	2.9	0.4	-3.0	-3.8	-4.8	-7.1	-9.5	0.2	5.1
14-Feb	-9.9	-10.9	-9.4	-9.6	-9.3	-9.1	-11.6	-13.4	-12.7	-11.7	-10.4	-7.8	-5.6	-5.0	-4.2	-4.1	-4.3	-4.5	-5.4	-7.2	-8.1	-8.8	-10.0	-11.3	-8.5	-4.1
15-Feb	-12.4	-12.8	-13.8	-14.5	-15.1	-15.4	-15.8	-16.4	-17.3	-18.4	-18.9	-18.6	-17.7	-16.7	-16.9	-16.9	-17.4	-18.9	-20.1	-20.5	-21.2	-21.6	-22.5	-23.5	-17.6	-12.4
16-Feb	-25.0	-26.6	-28.1	-28.6	-29.5	-29.6	-29.5	-30.6	-30.6	-27.1	-24.7	-23.0	-21.4	-20.5	-19.7	-19.1	-19.2	-20.0	-20.9	-21.7	-22.9	-23.9	-24.3	-24.5	-24.6	-19.1
17-Feb	-24.6	-24.9	-25.0	-25.6	-26.2	-26.8	-27.0	-27.1	-27.1	-26.7	-26.0	-25.6	-25.8	-25.9	-26.1	-26.3	-26.6	-26.8	-27.1	-27.6	-28.0	-28.4	-28.7	-28.9	-26.6	-24.6
18-Feb	-29.0	-29.3	-29.6	-30.0	-30.2	-30.3	-30.5	-30.7	-30.8	-31.0	-30.8	-30.5	-30.0	-29.7	-29.5	-29.6	-29.7	-29.8	-29.8	-30.2	-32.0	-32.7	-32.9	-33.2	-30.5	-29.0
19-Feb	-33.7	-34.3	-34.5	-34.6	-35.1	-35.4	-35.1	-35.2	-34.6	-32.4	-31.2	-29.1	-26.9	-24.9	-22.8	-21.5	-20.9	-21.7	-22.7	-23.3	-24.0	-24.8	-24.5	-24.9	-28.7	-20.9
20-Feb	-25.0	-24.5	-24.9	-25.8	-26.8	-27.0	-26.1	-26.1	-26.4	-25.4	-23.9	-22.7	-19.9	-18.9	-17.4	-15.6	-15.4	-16.9	-18.8	-20.4	-21.8	-22.5	-23.2	-23.2	-22.4	-15.4
21-Feb	-23.4	-24.2	-24.8	-24.9	-24.1	-23.5	-23.3	-22.5	-22.1	-20.1	-18.7	-17.8	-17.2	-17.0	-16.8	-16.9	-18.0	-19.8	-21.1	-22.3	-23.4	-24.4	-25.0	-25.4	-21.5	-16.8
22-Feb	-25.6	-25.6	-26.0	-26.7	-27.1	-27.5	-27.8	-27.9	-27.8	-27.6	-26.9	-26.0	-25.0	-23.9	-22.8	-21.6	-20.7	-20.4	-20.1	-19.9	-19.8	-19.8	-19.8	-20.0	-24.0	-19.8
23-Feb	-20.1	-19.8	-19.5	-19.6	-19.4	-19.4	-20.0	-20.3	-20.0	-19.4	-18.8	-17.5	-17.2	-16.8	-16.9	-15.6	-16.7	-18.6	-21.8	-22.2	-22.4	-23.2	-23.9	-23.6	-19.7	-15.6
24-Feb	-23.1	-22.2	-22.9	-23.9	-23.9	-24.2	-24.5	-25.7	-25.8	-22.9	-20.8	-19.2	-16.6	-15.1	-13.6	-12.9	-13.4	-14.5	-15.5	-16.2	-18.9	-19.4	-17.9	-17.3	-19.6	-12.9
25-Feb	-17.0	-16.2	-16.1	-15.8	-15.7	-15.2	-15.0	-15.4	-16.0	-14.7	-13.6	-12.3	-10.4	-9.5	-8.4	-8.2	-8.3	-8.2	-8.4	-10.3	-11.8	-12.9	-13.9	-14.8	-12.8	-8.2
26-Feb	-15.6	-16.3	-16.6	-16.8	-17.0	-16.9	-17.1	-17.0	-16.8	-17.0	-17.0	-16.6	-16.2	-16.9	-17.3	-17.8	-18.0	-18.5	-19.0	-19.8	-20.7	-21.7	-22.6	-23.6	-18.0	-15.6
27-Feb	-24.7	-25.3	-26.0	-26.7	-27.9	-28.8	-29.4	-29.7	-29.9	-29.7	-29.1	-27.8	-26.4	-25.9	-24.7	-24.0	-24.5	-25.4	-26.0	-26.5	-27.7	-29.7	-32.3	-33.5	-27.6	-24.0
28-Feb	-34.2	-33.9	-34.1	-34.7	-34.8	-34.9	-35.1	-35.2	-33.6	-31.0	-28.6	-26.4	-22.9	-20.0	-17.2	-15.5	-14.5	-14.6	-16.1	-17.5	-19.1	-19.5	-19.5	-19.9	-25.5	-14.5
	-16.8	-16.8	-16.9	-17.3	-17.5	-17.7	-18.0	-18.2	-18.1	-17.3	-16.4	-15.3	-14.2	-13.4	-12.7	-12.3	-12.5	-13.3	-14.1	-14.9	-15.6	-16.2	-16.6	-17.0	Diurnal Average	
	2.3	2.4	2.1	1.2	0.5	-0.1	-0.6	-0.6	-0.7	0.0	2.3	4.3	6.0	7.3	8.0	9.5	4.7	2.9	1.7	1.5	0.7	-0.7	0.0	0.5	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Fort Hills - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	212	31.55	31.55
-20 - 0	424	63.10	94.64
0 - 10	36	5.36	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 2m (RH2) - %

Fort Hills - February 2026

Maximum Value: 94.8 % on Feb 4 04:00

Maximum Daily Average: 85.4 % on Feb 4

Minimum Value: 42.9 % on Feb 13 17:00

Minimum Daily Average: 59.6 % on Feb 13

Maximum Diurnal Average: 79.2 % at hour 7

Minimum Diurnal Average: 67.5 % at hour 16

Monthly Average: 75.50 %

Percentiles: P_1 = 52.5 P_{10} = 63.1 Q_1 = 69.6 Median = 76.6 Q_3 = 82.3 P_{90} = 86.0 P_{99} = 92.3

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

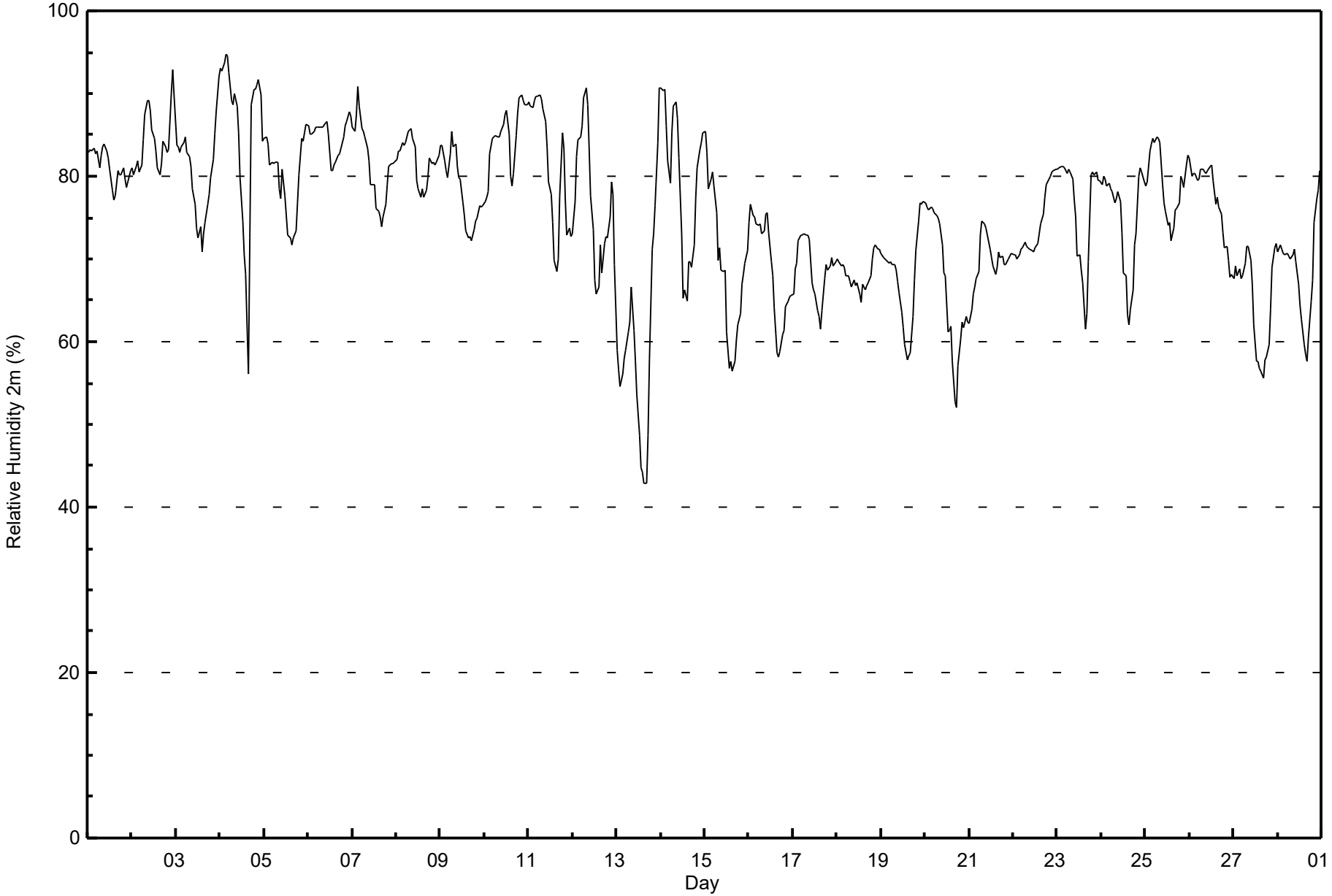
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	82.9	83.3	83.1	83.4	82.7	83.0	81.0	82.6	83.6	83.8	83.1	82.1	80.9	78.2	77.1	77.7	80.7	80.2	80.2	81.1	79.6	78.6	79.3	80.7	81.2	83.8
2-Feb	81.0	80.2	81.2	81.8	80.6	81.4	84.4	87.5	89.1	89.2	88.0	85.7	84.5	83.1	81.0	80.2	81.6	84.2	83.5	82.9	83.3	90.0	92.9	89.7	84.4	92.9
3-Feb	83.7	83.6	83.0	83.5	84.0	84.7	82.8	82.4	81.3	78.5	76.7	73.8	72.6	73.8	70.9	73.1	74.3	76.6	77.7	79.8	82.0	85.1	87.8	92.1	80.2	92.1
4-Feb	93.0	92.7	93.7	94.8	94.5	92.6	89.2	88.6	90.0	88.4	85.2	79.8	74.5	70.5	68.1	56.2	72.5	88.6	90.4	90.5	91.1	91.7	89.8	84.3	85.4	94.8
5-Feb	84.7	84.8	83.9	81.4	81.7	81.6	81.7	81.7	78.5	77.3	80.8	77.7	75.3	72.9	72.6	71.8	72.6	73.4	76.7	80.2	84.5	84.2	85.2	86.3	79.6	86.3
6-Feb	86.2	85.1	85.1	85.4	85.9	86.0	85.9	85.9	86.0	86.4	86.5	85.0	80.7	80.6	81.3	81.7	82.5	82.8	83.5	84.8	86.0	86.5	87.8	87.2	84.8	87.8
7-Feb	85.9	85.4	87.4	90.9	88.4	85.7	85.4	84.7	83.4	81.8	78.9	79.0	79.0	76.1	75.8	75.1	74.0	75.2	76.6	78.9	81.2	81.6	81.6	81.6	81.4	90.9
8-Feb	82.1	83.1	83.1	84.0	83.7	84.1	85.4	85.5	85.7	84.6	83.5	79.5	78.4	77.4	78.4	77.5	78.2	79.8	82.2	81.5	81.8	81.3	81.6	82.5	81.9	85.7
9-Feb	83.7	83.7	81.9	80.7	79.8	82.8	85.4	83.5	84.0	81.2	79.9	79.7	76.8	75.2	73.3	72.5	72.6	72.2	73.5	74.6	75.0	76.4	76.3	76.5	78.4	85.4
10-Feb	77.0	77.4	78.1	82.7	84.5	84.7	84.9	84.7	84.8	85.4	86.2	87.4	88.0	85.0	80.0	78.8	80.3	84.9	87.6	89.5	89.8	89.2	88.7	88.7	84.5	89.8
11-Feb	89.0	88.5	88.3	89.2	89.7	89.6	89.9	89.3	88.1	86.6	83.6	79.3	77.9	74.4	69.8	68.4	69.9	77.7	85.3	83.4	77.1	72.9	73.8	72.8	81.4	89.9
12-Feb	73.0	76.9	82.3	84.3	84.7	86.0	89.5	90.7	88.6	83.4	77.6	73.6	67.5	65.7	66.6	71.6	68.4	71.9	72.7	72.5	75.1	79.4	77.8	69.3	77.0	90.7
13-Feb	59.1	56.5	54.5	56.2	57.9	59.0	61.1	62.4	66.6	61.4	57.6	53.5	48.7	44.7	44.3	42.9	42.9	48.6	57.8	71.2	73.0	76.4	84.1	90.6	59.6	90.6
14-Feb	90.7	90.4	90.5	86.1	81.8	79.2	85.3	88.4	88.9	87.0	82.3	73.1	65.2	66.3	64.9	69.7	69.6	68.9	71.6	77.2	81.0	83.2	84.1	85.3	79.6	90.7
15-Feb	85.5	82.9	78.4	79.7	80.5	78.8	75.6	69.9	71.3	68.6	68.5	68.7	61.2	56.8	57.6	56.4	57.6	60.2	62.1	63.3	67.0	68.1	69.5	71.1	69.1	85.5
16-Feb	74.4	76.6	75.3	75.1	74.3	74.1	74.2	73.1	73.3	75.4	75.5	73.3	69.6	68.0	64.0	58.6	58.2	58.9	60.8	61.4	64.2	64.9	65.5	65.5	68.9	76.6
17-Feb	65.8	68.9	69.5	72.2	72.9	72.9	73.1	72.9	72.9	72.4	67.2	66.3	65.7	63.7	63.0	61.5	63.7	67.7	69.3	68.7	69.2	70.3	69.1	69.6	68.7	73.1
18-Feb	70.0	69.7	69.2	69.4	69.0	68.0	67.9	67.2	66.5	67.4	66.7	67.0	65.8	64.7	67.0	66.3	66.9	67.2	67.9	70.0	71.4	71.7	71.2	71.1	68.3	71.7
19-Feb	70.7	70.2	70.0	69.8	69.6	69.7	69.2	69.2	68.6	67.3	66.0	63.6	61.7	59.6	57.8	58.2	58.7	63.1	67.4	71.0	74.7	76.7	76.6	77.0	67.8	77.0
20-Feb	76.8	76.3	76.0	76.3	76.2	75.7	75.3	74.9	74.3	71.7	68.3	67.9	61.2	61.4	61.9	57.6	52.8	52.0	57.2	60.4	62.4	61.6	63.1	62.4	66.8	76.8
21-Feb	62.2	63.9	65.8	66.6	67.6	68.5	72.8	74.6	74.2	73.6	72.8	71.1	70.2	69.2	68.1	69.1	70.8	70.2	70.3	69.4	69.4	70.0	70.3	70.6	69.6	74.6
22-Feb	70.5	70.6	70.0	70.5	71.2	71.3	72.1	71.6	71.3	71.2	71.0	70.8	71.3	71.9	73.0	74.2	75.4	77.5	78.9	79.6	80.0	80.5	80.7	80.8	74.0	80.8
23-Feb	80.8	80.9	81.2	81.1	81.1	80.3	80.8	80.5	79.6	77.1	75.0	70.4	70.6	68.6	67.2	61.5	63.4	69.6	80.1	80.5	80.1	80.5	79.5	79.5	76.3	81.2
24-Feb	79.0	80.0	79.6	78.9	79.1	78.4	78.2	76.8	77.3	78.2	77.0	73.2	68.3	67.9	63.3	62.1	63.8	66.3	71.7	73.1	80.0	81.1	80.6	79.3	74.7	81.1
25-Feb	78.9	79.3	83.1	83.9	84.5	84.1	84.7	84.6	84.1	78.9	76.8	75.8	74.1	74.3	72.2	73.8	76.0	76.1	76.8	80.1	79.5	78.6	81.4	82.5	79.3	84.7
26-Feb	82.2	80.0	80.4	80.3	79.4	79.6	80.9	80.9	80.6	80.4	80.7	81.3	81.3	79.4	76.7	77.4	76.3	75.4	73.2	71.4	71.5	69.9	67.8	68.1	77.3	82.2
27-Feb	67.6	69.1	67.9	68.8	67.7	68.0	69.5	71.5	71.6	69.8	66.7	62.1	57.6	57.6	56.8	56.5	55.6	57.7	58.1	59.6	63.9	69.0	71.4	71.9	64.8	71.9
28-Feb	70.8	71.7	71.2	70.6	70.6	70.6	70.3	70.0	70.5	71.2	69.7	67.0	64.3	62.8	59.6	58.5	57.6	60.5	64.9	67.5	74.4	77.3	78.2	80.7	68.8	80.7
	78.1	78.3	78.4	78.8	78.7	78.6	79.2	79.1	79.1	77.8	76.1	73.8	71.2	69.6	68.3	67.5	68.5	71.0	73.5	75.1	76.7	77.7	78.4	78.5	Diurnal Average	
	93.0	92.7	93.7	94.8	94.5	92.6	89.9	90.7	90.0	89.2	88.0	87.4	88.0	85.0	81.3	81.7	82.5	88.6	90.4	90.5	91.1	91.7	92.9	92.1	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Fort Hills - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	0	0.00	0.00
40 - 60	42	6.25	6.25
60 - 80	379	56.40	62.65
80 - 100	251	37.35	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Fort Hills - February 2026

Maximum Speed: 43 km/h on Feb 26 14:00

Maximum Daily Speed Average: 32.8 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 24 00:00

Minimum Daily Speed Average: 1.6 km/h on Feb 23

Maximum Diurnal Speed Average: 8.2 km/h at hour 21

Minimum Diurnal Speed Average: 2.9 km/h at hour 14

Monthly Average Velocity: 5.0 km/h 25.7 deg

Percentiles: $P_1 = 2$ $P_{10} = 4$ $Q_1 = 6$ Median = 11 $Q_3 = 16$ $P_{90} = 24$ $P_{99} = 39$

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NNE5	ESE2	SE9	SE11	SE12	SSE13	SSE15	SSE16	SE17	SSE14	SSE12	SSE13	SSE16	SSE15	SSE10	SSW8	S8	SSE13	SSE12	S9	SSE9	SSE11	SSE11	S9	SSE10.5	SE17
2-Feb	S8	S11	S9	S10	S11	S10	S10	S7	S6	S8	S8	S10	S11	S11	S8	SSW5	ENE2	NNE6	NNE2	N8	NNW7	NNE8	N8	N12	S3.8	N12
3-Feb	NNE15	NNE14	NNE12	NNE12	N9	NNE12	NNE11	NNE9	NE9	NE7	NE6	ENE4	SSE2	SE5	ESE3	NE3	SE2	SSW4	SSW6	SSW5	SE4	SSW4	S5	SSW6	NE3.7	NNE15
4-Feb	S8	SSE16	SSW10	SSW7	SSW7	S12	SSW18	SSW22	SSW20	SSW23	SSW24	SSW20	SSW17	SSW15	SW12	W13	N23	N32	N25	N20	N19	NNE19	NNE17	NNE16	SW3.0	N32
5-Feb	NNE20	NNE20	NNE21	NNE21	N21	N21	N24	NNE20	NNE22	NNE19	NNE15	NNE13	NNE12	NNE10	NE10	NE9	NE8	ENE6	NE9	NE9	NE9	ENE5	E4	NNE3	NNE13.2	N24
6-Feb	N5	NNW5	NW5	NNW4	NW5	NNW6	NNW6	NNW6	NNW6	NNW6	N5	NW2	SW6	SW9	SW7	SW5	W4	WSW3	SW5	SSW7	SSW4	S5	SSE8	SE5	W1.9	SW9
7-Feb	NNE5	N8	NNE14	NNE18	N18	NNE18	NNE16	NNE17	NNE18	NNE16	NNE16	NNE15	NNE13	NNE15	NNE14	NNE15	N14	N11	N13	N15	N15	N12	N14	N12	NNE14.0	N18
8-Feb	N13	N12	N7	NW8	NNW7	N7	NW5	NNW7	NNW8	N12	N14	N17	N14	N12	NNE10	NNE12	NNE10	NNE7	NE8	NNE7	NE7	NE7	ESE3	ESE4	N8.2	N17
9-Feb	ESE4	ESE5	SE7	ESE5	ESE5	NNE3	N5	NNE9	NNE11	NNE14	NNE16	N14	NNE15	NNE16	NNE16	N15	NNE15	N15	N15	NNE15	NNE14	NNE13	N12	N11	NNE9.8	NNE16
10-Feb	N10	NNW8	NNW8	N9	NNW6	WNW4	W2	SW2	SSW4	SSW6	SSW10	SSW13	SSW14	SSW14	SSW11	SW13	S9	S8	SSE9	SSE11	SE11	SSE10	SE10	SE13	S4.5	SSW14
11-Feb	SE13	SE14	SE16	SE14	SE11	SE8	SE10	SSE11	SSE13	S14	S18	S17	SSE15	S15	S16	SSW16	SSW13	SSW9	NE1	NNW4	N11	NNW12	NNW6	W3	SSE7.8	S18
12-Feb	SE4	SE10	SSE10	SSW8	SSW9	S7	SE9	S10	SSE10	SE12	SSE14	SSE15	S16	S18	S14	SSE12	S9	SSE15	SSE15	SSE15	S8	SW3	SW6	SSW9	SSE9.8	S18
13-Feb	SSW14	SSW18	SW24	SW21	SW20	SW14	SW13	SW15	SSW14	SSW15	SW18	SW16	SSW17	SW17	SSW16	SSW15	SSW13	SW10	NNW9	N8	N10	N7	N5	WNW3	SW10.9	SW24
14-Feb	SSE5	SSE6	SE10	SE12	SE12	ESE7	N5	NNW5	NNW7	N8	NNW5	N2	E2	E4	NNE4	NNE6	N11	N8	NNE11	N13	N10	N12	N14	N12	NNE4.2	N14
15-Feb	N18	NNE21	N19	N18	NNE17	NNE16	NNE16	NNE16	NNE15	NNE15	NE14	NE12	NE10	NE7	NE10	NE10	NE10	NE11	NE12	NE10	NNE7	NE9	NNE12	N13	NNE12.8	NNE21
16-Feb	NNW8	NW2	W4	W3	WNW1	NW2	N3	NW2	NW5	N4	NNW4	N7	N6	N7	NNE14	NNE16	NNE17	NNE24	NNE26	NNE26	N25	N22	N25	N25	N10.8	NNE26
17-Feb	N27	N24	NNE23	N21	NNE22	NNE23	NNE28	NNE31	NNE31	NNE31	NNE33	NNE35	N35	N38	N39	N38	N40	N42	N40	N38	N36	N36	N40	N38	N32.8	N42
18-Feb	N33	N34	N37	N38	N36	N36	N37	N35	N34	N33	N31	N28	NNE25	NNE26	NNE21	N23	NNE20	N18	N12	N3	SSW4	SSW6	SSW6	SSE7	N22.4	N38
19-Feb	S6	S9	S11	SSE11	S9	SSE8	SE13	SE12	SSE12	SSE16	SE17	SSE16	SSE16	SSE18	SSE16	SSE17	SSE15	SE15	SSE13	SSE10	S6	SSE5	SSE7	SSE10	SSE11.8	SSE18
20-Feb	SE10	SE10	SE12	SSE11	SSE11	SE9	S7	SSE9	S6	SE6	ESE5	ESE6	ENE2	N4	N7	NNE8	NE13	NNE16	NNE19	N20	N19	N22	NNE13	NNE13	NE4.7	N22
21-Feb	NNE13	NNE12	NNE12	NNE12	N12	NNW4	S3	NNW4	NNW3	NNE1	NNE7	NNE13	N14	N16	NNE20	NNE19	N21	N22	N21	N26	N27	N29	N26	N22	N14.7	N29
22-Feb	NNE24	N18	NNE17	N15	N17	N18	N16	N17	N16	N17	N16	N13	N14	N14	N14	N13	N12	N9	N10	N10	N9	N8	NNW6	NNW5	N13.5	NNE24
23-Feb	NNW6	N5	SSE3	SSW3	SSE4	S6	SSE6	S4	S4	SE5	SSE6	SE4	ESE6	E5	E4	ESE4	SE5	E3	E3	NW3	NNW3	NW4	NW3	SSE0	SE1.6	SSE6
24-Feb	S2	SE6	SE8	SE5	SE6	SE3	SSE5	SSE1	SSE5	SSE6	SE7	ESE10	ESE10	ESE12	SE14	SE14	SE13	SE13	SE11	SE3	SE4	SSE3	SSW2	SSW3	SE6.5	SE14
25-Feb	W2	NNW3	NW4	NNW3	NW2	ENE0	SSE5	S6	S7	SSE8	SE12	SE13	SE13	SE11	ESE6	NE5	NNE7	NNE9	NNE14	N17	NNE18	NNE18	NNE22	NNE23	NE4.5	NNE23
26-Feb	N24	NNE20	NNE18	NNE20	NNE25	N20	N26	N27	N27	N34	N33	N36	N37	N43	N39	N41	N33	N30	N36	N37	N31	N27	N25	N27	N29.7	N43
27-Feb	N26	N27	NNE23	NNE19	NNE20	NNE16	NNE13	NNE10	NE10	NE11	NNE11	NE7	NE5	SSE4	E5	NE5	NE7	NE7	NE8	NE9	N7	NNW2	NW4	WNW3	NNE9.8	N27
28-Feb	SSW3	SSE5	SSE6	SSE8	SSE8	SSE9	SE11	SE12	SSE13	SSE13	SSE17	SE20	SSE18	SSE18	SSE18	SSE18	S19	SSE19	SSE15	SSE10	S8	SSE10	SSE9	SE12	SSE12.2	SE20
	NNE6.6	NNE5.2	NNE4.4	NNE4.5	NNE4.3	NNE4.2	NNE3.9	NNE3.7	NNE3.7	NE4.0	NE3.6	NE3.9	ENE3.1	NE2.9	NE3.6	NNE4.6	NNE5.9	NNE6.5	NNE7.8	NNE8.2	8.2	NNE7.6	NNE6.8	NNE6.0	Diurnal Average	
	N33	N34	N37	N38	N36	N36	N37	N35	N34	N34	NNE33	N36	N37	N43	N39	N41	N40	N42	N40	N38	N36	N36	N40	N38	Diurnal Maximum	

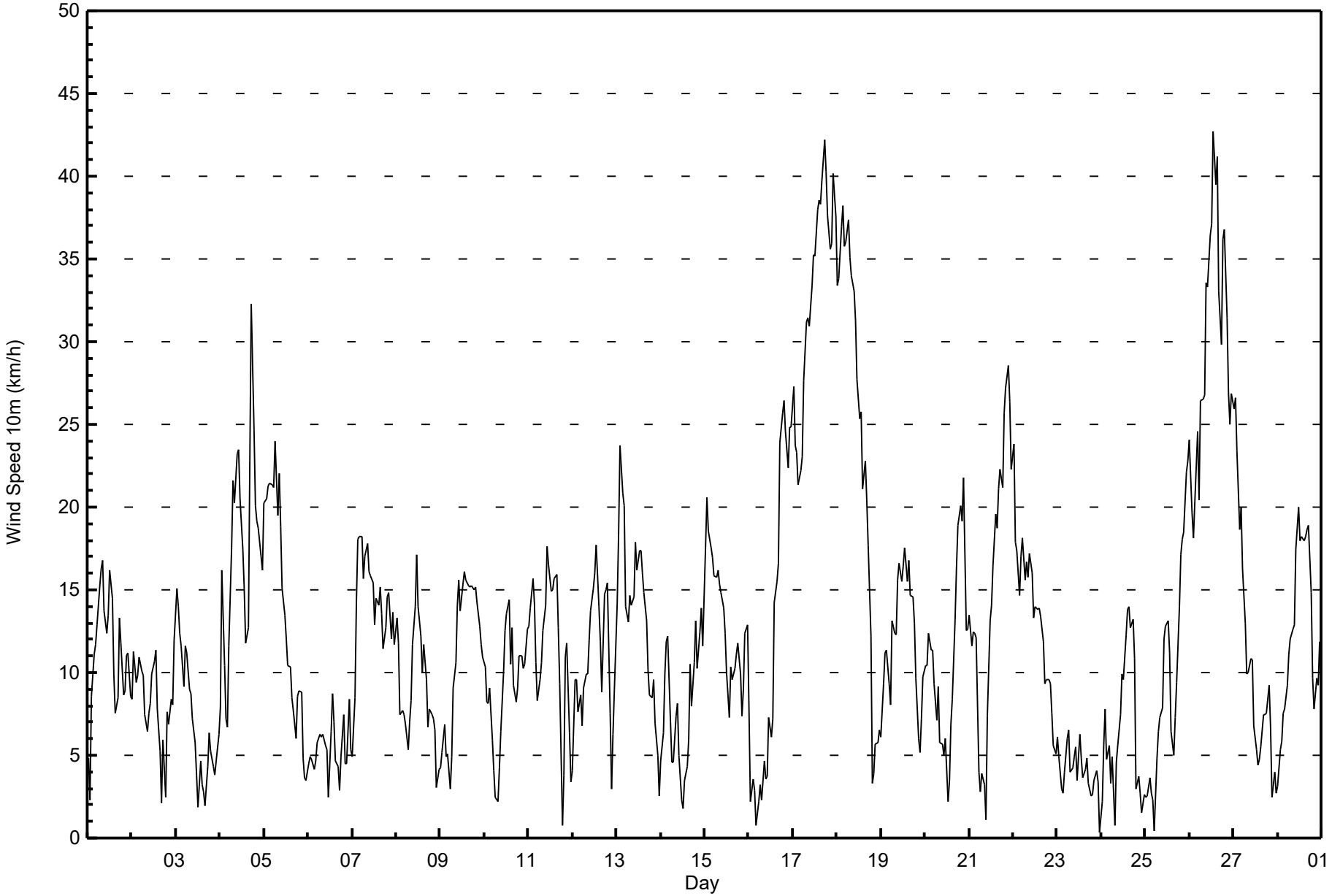
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Fort Hills - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	131	19.49	19.49
6 - 11	212	31.55	51.04
12 - 19	217	32.29	83.33
20 - 28	70	10.42	93.75
29 - 38	34	5.06	98.81
> 38	8	1.19	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Fort Hills - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	11	7	4	6	8	10	12	13	6	11	4	1	6	4	14	14	131
6 - 11	27	20	27	1	0	6	22	32	36	16	5	0	0	0	1	19	212
12 - 19	50	67	2	0	0	1	22	39	10	17	7	0	1	0	0	1	217
20 - 28	33	28	0	0	0	0	1	0	0	5	3	0	0	0	0	0	70
29 - 38	29	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
> 38	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Totals	158	127	33	7	8	17	57	84	52	49	19	1	7	4	15	34	672

Total Number of Valid Hours: 672

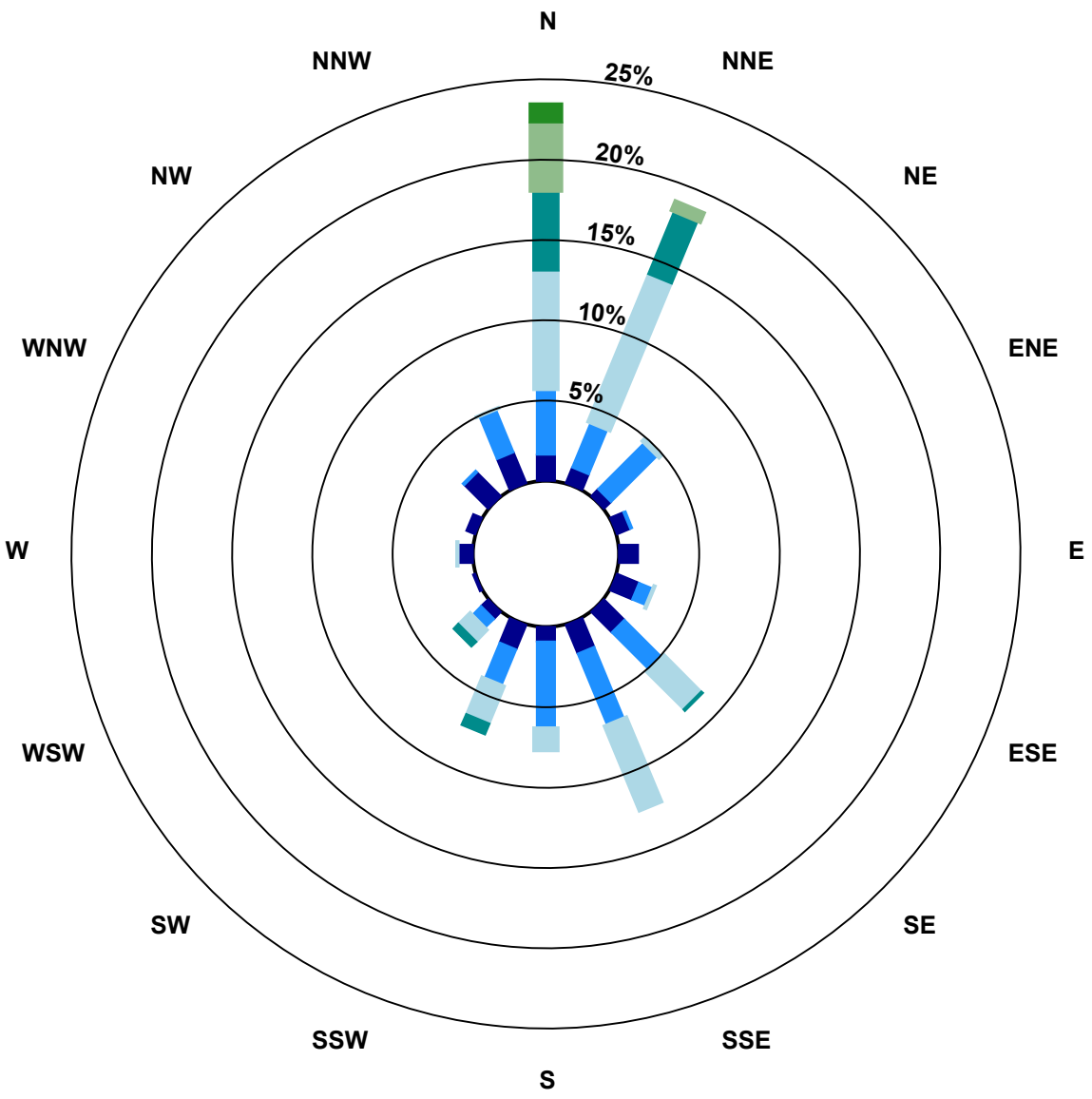
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Fort Hills



Classes (km/h)

0 - 5

6 - 11

12 - 19

20 - 28

29 - 38

> 38

Total Number of Valid Hours: 672

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 8 km/h on Feb 26 19:00

Minimum Value: 1 km/h on Feb 23 00:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 7

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	2	3	2	1	3	2	2	2	2	3	3	2	2	3	1	2	2	2	1	1	1	1	1	3
2-Feb	1	2	1	1	2	1	1	1	1	1	1	1	1	2	2	1	1	1	2	1	1	1	2	3	3
3-Feb	3	2	2	2	2	3	2	1	1	2	2	1	2	2	1	1	1	2	1	1	1	1	1	1	3
4-Feb	3	2	2	1	3	2	3	2	3	2	3	3	2	2	2	3	6	6	4	3	4	3	3	3	6
5-Feb	4	4	4	5	3	4	5	4	3	4	3	2	2	2	2	2	1	2	2	1	1	1	1	1	5
6-Feb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3
7-Feb	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	3
8-Feb	2	3	1	1	1	1	1	1	2	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	3
9-Feb	1	2	1	1	1	1	2	2	2	3	2	2	2	2	2	2	3	2	2	2	2	2	2	2	3
10-Feb	2	1	1	2	1	1	1	1	1	1	2	2	2	3	3	2	2	1	1	1	1	2	1	3	3
11-Feb	2	1	1	2	2	1	1	1	1	2	3	3	2	2	2	3	3	1	2	1	2	3	2	2	3
12-Feb	2	1	2	2	2	3	1	2	2	2	3	2	2	2	4	1	2	2	1	2	4	2	1	2	4
13-Feb	3	2	4	4	3	4	2	2	3	2	3	2	2	3	2	2	2	4	3	2	2	1	1	1	4
14-Feb	1	2	2	2	1	3	3	1	2	1	2	2	1	1	2	1	2	1	2	2	2	3	4	5	5
15-Feb	3	4	4	3	3	3	3	3	2	2	2	2	2	2	2	1	2	1	1	2	2	2	2	2	4
16-Feb	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	4	4	3	4	4	4	4	4	4
17-Feb	4	4	4	4	4	4	4	5	5	5	6	6	7	6	6	6	7	7	7	6	7	7	7	7	7
18-Feb	6	6	6	7	7	6	7	6	5	5	6	5	4	4	4	4	3	3	3	3	3	1	1	1	7
19-Feb	2	3	1	1	3	1	2	1	3	2	2	2	2	3	2	2	1	2	1	2	1	1	2	1	3
20-Feb	1	1	1	2	1	1	2	2	1	1	1	1	1	1	2	1	3	2	3	3	3	4	2	2	4
21-Feb	2	2	2	2	2	2	1	1	1	1	3	2	3	3	3	3	3	3	3	5	4	4	4	4	5
22-Feb	4	4	3	3	2	3	3	3	3	2	2	2	2	2	2	2	2	1	1	2	1	1	1	1	4
23-Feb	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2
24-Feb	1	1	1	1	2	2	1	1	1	1	2	1	2	1	2	1	1	1	1	2	2	1	1	1	2
25-Feb	2	1	1	1	1	1	2	1	1	1	2	2	2	2	3	2	2	1	3	3	4	4	3	3	4
26-Feb	4	4	3	4	6	5	3	4	4	5	5	5	6	8	7	7	7	6	8	7	5	4	4	4	8
27-Feb	5	5	4	3	4	4	2	3	2	2	3	2	2	2	2	2	1	1	2	1	1	2	1	1	5
28-Feb	2	1	1	1	2	1	2	1	2	2	3	2	2	2	3	3	2	2	2	2	1	2	3	4	4
	6	6	6	7	7	6	7	6	5	5	6	6	7	8	7	7	7	7	8	7	7	7	7	7	
	Diurnal Maximum																								

Direction of Maximum Speed: 9 deg on Feb 26 14:00
Direction of Maximum Daily Speed Average: 9.9 deg on Feb 17

Direction of Minimum Speed: 153 deg on Feb 24 00:00

Direction of Minimum Daily Speed Average: 1.6 deg on Feb 23

Monthly Average Direction: 25.7 deg

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	19	116	124	124	133	154	150	147	146	153	157	158	152	149	151	195	173	158	158	171	163	165	166	175	153.0
2-Feb	176	180	191	188	184	171	173	180	170	173	190	184	179	186	186	198	58	21	20	357	343	13	7	11	177.8
3-Feb	15	16	17	19	10	30	26	30	40	44	41	60	149	133	102	56	129	199	192	203	130	200	184	200	39.0
4-Feb	181	167	195	211	213	188	199	202	197	195	196	200	206	212	215	260	6	9	8	1	7	19	23	25	224.1
5-Feb	25	23	19	23	11	5	6	12	15	13	13	15	23	24	49	52	52	74	40	46	42	78	96	29	23.1
6-Feb	360	327	318	336	326	332	348	344	344	346	353	323	226	221	222	225	265	258	218	212	211	170	147	125	277.7
7-Feb	12	10	16	17	6	16	21	18	17	27	21	27	29	28	19	12	8	3	9	10	10	359	357	357	14.5
8-Feb	358	359	0	325	335	352	320	344	336	0	5	10	11	11	22	24	22	14	36	28	34	47	103	115	8.4
9-Feb	114	119	126	112	123	33	349	14	13	13	12	7	13	16	16	10	12	10	9	13	13	14	8	0	17.5
10-Feb	359	346	345	356	328	303	266	218	200	192	210	203	203	205	207	218	191	169	150	160	142	148	145	146	189.9
11-Feb	142	135	141	136	137	138	141	157	160	177	177	178	168	174	190	194	200	205	48	343	351	348	332	262	165.8
12-Feb	145	133	165	196	206	179	145	176	155	135	159	151	182	191	188	148	177	153	153	151	177	228	219	205	168.0
13-Feb	212	211	222	229	223	225	221	215	211	212	222	214	202	217	207	208	209	229	345	350	350	9	4	285	222.3
14-Feb	165	162	137	137	133	122	9	344	347	349	344	2	93	96	18	20	1	5	17	0	360	359	3	9	25.0
15-Feb	9	13	10	8	15	20	18	17	23	22	36	34	39	52	43	44	46	50	48	42	20	36	21	10	25.1
16-Feb	338	309	272	263	283	308	351	311	323	354	328	6	10	351	13	21	20	19	20	14	3	4	9	7	6.0
17-Feb	8	9	12	11	14	15	18	17	14	15	14	14	9	7	9	6	5	5	8	9	7	6	7	8	9.9
18-Feb	7	5	6	5	8	6	5	8	4	2	9	11	17	14	13	10	12	2	354	3	203	194	192	168	7.3
19-Feb	173	178	177	163	170	161	146	145	159	162	142	154	157	150	162	151	148	143	149	152	178	168	167	152	156.4
20-Feb	137	138	145	150	150	144	173	157	178	142	123	119	70	5	358	18	34	28	20	11	5	2	12	16	56.1
21-Feb	12	19	19	15	9	342	171	329	335	15	16	26	11	8	15	20	5	7	11	11	7	6	9	9	10.4
22-Feb	13	11	13	10	8	8	7	10	6	7	3	1	2	3	360	4	356	351	356	359	360	351	333	336	4.0
23-Feb	329	358	164	210	160	172	157	179	171	129	151	125	116	81	98	107	126	84	92	305	344	321	308	153	129.6
24-Feb	173	140	133	132	137	126	150	150	150	161	126	121	116	122	130	128	137	140	133	138	135	151	213	210	135.0
25-Feb	277	331	321	338	321	70	168	176	171	147	133	128	138	134	112	44	13	13	14	7	19	13	13	12	43.0
26-Feb	9	16	15	17	12	1	4	7	3	8	0	4	5	9	1	7	357	355	357	357	358	2	7	10	4.3
27-Feb	11	10	15	22	17	17	27	32	46	48	23	36	46	154	80	56	50	49	52	40	9	332	312	291	25.1
28-Feb	206	167	149	149	158	151	145	146	156	158	148	145	150	152	165	162	170	167	162	167	172	162	160	146	157.3
	15.0	27.1	30.7	27.9	24.0	25.5	31.9	29.2	30.3	39.5	42.8	53.4	62.8	56.0	37.7	28.7	22.7	24.4	25.1	15.1	10.9	11.7	13.7	16.8	
	Diurnal Average																								

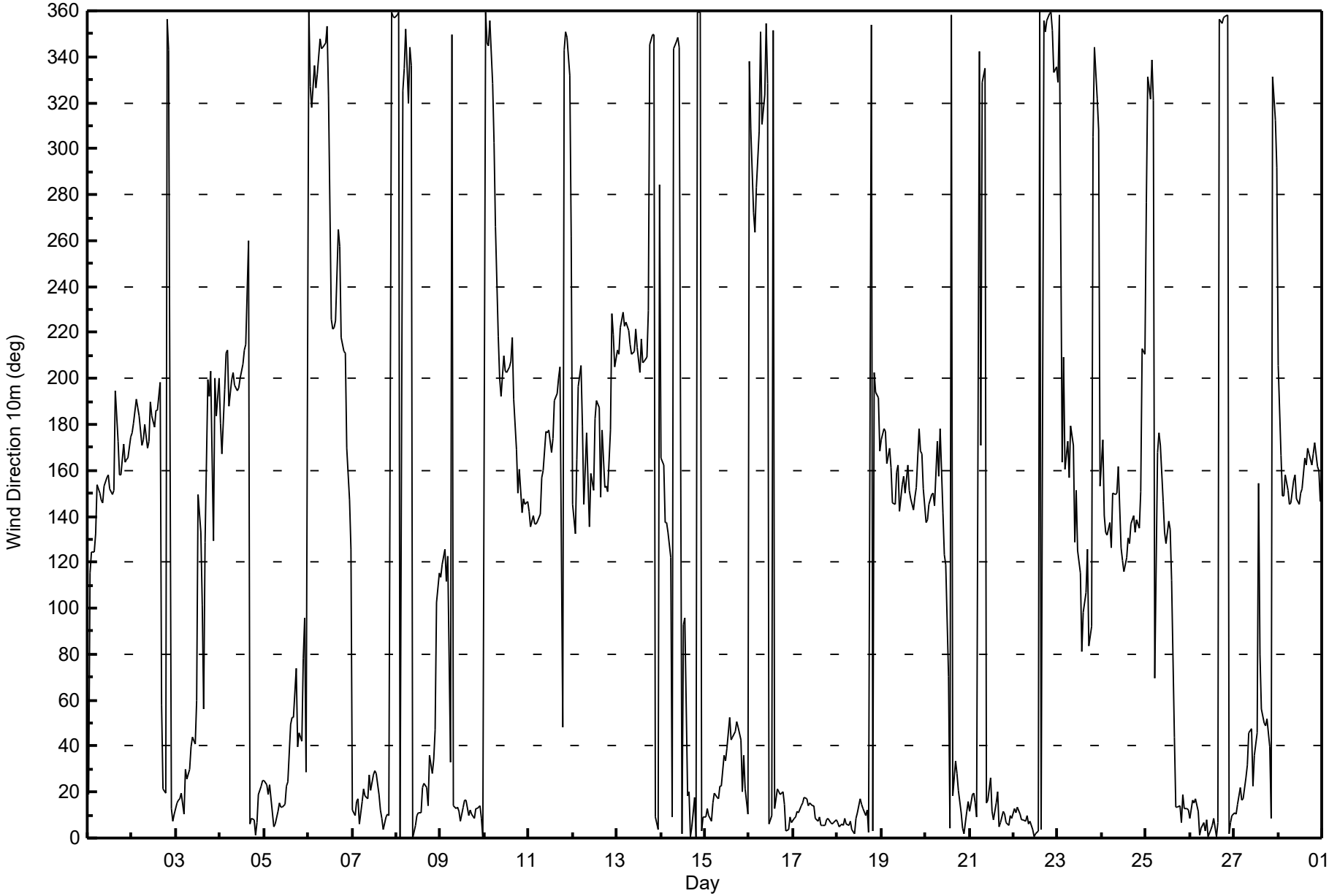
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Fort Hills - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Fort Hills - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 92 deg on Feb 24 00:00

Minimum Value: 4 deg on Feb 12 18:00

Percentiles: P_1 = 5 P_{10} = 7 Q_1 = 9 Median = 12 Q_3 = 19 P_{90} = 30 P_{99} = 66

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	21	66	13	15	9	8	7	10	6	7	9	8	7	7	9	18	15	7	6	8	8	7	5	6	66
2-Feb	8	10	7	7	7	6	7	6	5	9	11	14	10	11	14	20	81	14	37	9	12	9	11	14	81
3-Feb	9	10	8	9	11	16	11	10	14	13	26	25	77	35	28	40	47	22	8	15	23	30	24	13	77
4-Feb	14	10	10	15	23	11	7	6	7	6	7	7	8	8	11	20	29	12	12	15	13	9	10	10	29
5-Feb	10	9	9	11	11	12	13	10	10	10	12	13	15	19	11	12	14	22	15	8	9	22	22	36	36
6-Feb	30	16	11	16	9	10	13	13	11	12	16	38	15	13	12	22	15	22	21	10	19	14	10	30	38
7-Feb	20	12	9	10	11	9	10	9	9	10	10	10	10	11	9	9	11	11	10	10	10	12	11	13	20
8-Feb	11	12	17	14	12	12	14	18	21	13	12	11	13	11	13	8	10	12	16	17	17	9	32	14	32
9-Feb	15	17	10	21	16	52	30	13	10	10	8	11	9	10	10	9	11	9	11	9	11	8	11	11	52
10-Feb	10	15	13	11	17	20	24	33	15	11	8	9	8	8	15	13	11	8	9	5	10	8	10	7	33
11-Feb	10	5	6	7	10	10	11	7	6	11	10	9	8	10	9	9	9	10	85	25	10	10	17	42	85
12-Feb	45	9	32	11	22	41	10	17	23	13	15	13	14	9	21	17	25	4	13	16	60	88	18	12	88
13-Feb	8	8	8	8	8	11	10	9	11	9	8	10	10	10	8	8	7	15	55	15	10	13	12	55	55
14-Feb	18	10	12	9	6	52	24	20	16	11	17	23	66	39	31	21	12	14	9	12	13	13	14	15	66
15-Feb	11	10	12	11	12	9	11	11	13	11	11	12	14	19	18	12	8	6	6	9	13	10	13	9	19
16-Feb	18	48	31	34	58	50	20	31	14	18	24	12	22	28	11	10	9	7	7	8	13	12	10	12	58
17-Feb	11	11	10	12	9	9	8	8	8	9	10	11	14	17	14	18	19	17	16	15	17	19	18	15	19
18-Feb	18	21	21	21	17	21	20	18	21	23	17	16	10	13	14	16	11	22	21	58	66	7	10	10	66
19-Feb	11	6	5	7	7	11	7	9	9	9	6	11	11	10	11	6	5	6	6	6	7	13	9	7	13
20-Feb	6	5	7	5	5	6	16	8	15	13	10	12	53	24	24	18	9	9	8	15	20	25	10	8	53
21-Feb	13	8	7	20	15	55	36	31	35	91	37	10	24	23	13	18	22	21	18	15	17	20	18	18	91
22-Feb	12	18	14	17	19	21	21	17	22	20	25	25	30	27	29	26	27	25	29	29	30	25	9	11	30
23-Feb	9	25	54	17	7	6	13	22	13	17	24	45	15	25	24	27	20	17	35	17	23	28	18	92	92
24-Feb	48	12	8	16	32	48	19	57	15	14	8	7	14	7	8	7	7	7	7	55	62	37	58	19	62
25-Feb	30	35	25	35	35	31	24	12	8	13	8	8	10	12	23	35	23	13	11	16	11	14	10	11	35
26-Feb	16	11	11	10	15	24	22	18	27	16	26	23	21	15	24	20	25	28	26	27	25	26	18	15	28
27-Feb	15	16	13	11	11	11	11	13	10	10	15	24	29	50	39	30	10	6	8	9	30	55	15	22	55
28-Feb	17	10	9	7	10	7	9	7	10	14	11	6	7	8	10	9	7	7	6	5	7	7	10	15	17
	48	66	54	35	58	55	36	57	35	91	37	45	77	50	39	40	81	28	85	58	66	88	58	92	
	Diurnal Maximum																								

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS25
WASKŌW OHCI PIMÂTISIWIN
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - WASKŌW OHCI PIMÂTISIWIN (AMS25)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2(ppb) Average	640	32	32	100	16.7	0	2.8	0
H2S(ppb) Average	637	34	35	99.85	1.7	0	1	0
Temperature 2 m (C) Average	672	0	0	100	10.5	0	0.8	0
Relative Humidity (%) Average	672	0	0	100	96	-	84.9	-
Wind Speed 10 m (km/h) Average	669	0	3	99.55	21	0	15	0
Wind Direction 10 m (deg) Average	669	0	3	99.55	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - WASKŌW OHCI PIMÂTISIWIN (AMS25)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	640	0.46	1.4	-	0	0	0	0.1	0.3	0.9	16.7
H2S (ppb) Average	637	0.35	0.3	-	0	0.1	0.2	0.2	0.5	0.8	1.7
Temperature 2 m (C) Average	672	-15.73	9.7	-	-39.6	-28.7	-23.2	-15	-9.2	-3.6	10.5
Relative Humidity (%) Average	672	74.65	10.2	-	34.6	60.8	68.5	76.3	81.9	86.3	96
Wind Speed 10 m (km/h) Average	669	5.4	4	-	0	1	2	4	7	10	21
Wind Direction 10 m (deg) Average	669	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - WASKŌW OHCI PIMÂTISIWIN (AMS25)

FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
H2S	03 Feb 2026 12:00	03 Feb 2026 12:00	1	Maintenance - sample manifold cleaned
Wind Speed, Wind Direction	11 Feb 2026 18:00	11 Feb 2026 18:00	1	Flat line in sensor output signal
Wind Speed, Wind Direction	12 Feb 2026 01:00	12 Feb 2026 01:00	1	Flat line in sensor output signal
Wind Speed, Wind Direction	24 Feb 2026 23:00	24 Feb 2026 23:00	1	Flat line in sensor output signal

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Waskow ohci Pimatisiwin - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 16.7 ppb on Feb 20 14:00 Maximum Daily Average: 2.8 ppb on Feb 25

Minimum Value: 0.0 ppb on Feb 1 02:00 Minimum Daily Average: 0.0 ppb on Feb 13
Maximum Diurnal Average: 1.8 ppb at hour 14 Minimum Diurnal Average: 0.1 ppb at hour 2
Monthly Average: 0.46 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.3 P_{90} = 0.9 P_{99} = 6.4

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.5	0.7	0.8	0.4	0.4	1.1	2.8	5.7	3.7	1.1	1.0	0.2	0.2	1.4	3.1	6.6	6.1	3.0	1.7	6.6
2-Feb	0.5	Z	0.3	0.3	0.2	0.9	0.9	0.5	0.4	0.4	0.4	0.8	1.3	1.4	1.5	1.1	0.6	0.4	0.4	0.3	0.6	0.3	0.2	0.2	0.6	1.5
3-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.0	0.1	C	C	C	C	0.7	1.1	0.9	0.8	0.6	0.6	0.5	0.4	0.3	0.8	0.4	1.1
4-Feb	0.5	0.6	0.5	Z	1.7	0.4	0.3	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.4	1.7
5-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2
6-Feb	0.1	0.0	0.0	0.1	0.1	Z	0.1	0.2	0.3	0.6	0.5	0.5	0.4	0.2	0.5	1.3	0.8	0.3	0.1	0.1	0.2	0.1	0.0	0.0	0.3	1.3
7-Feb	Z	0.1	0.0	0.2	0.9	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9
8-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.2	0.4	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
9-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
10-Feb	0.1	0.0	0.1	Z	0.1	0.1	0.2	0.4	0.5	0.5	0.4	0.4	0.5	1.0	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.0
11-Feb	0.1	0.4	0.3	0.3	Z	0.1	0.0	0.0	0.1	0.2	0.3	0.4	0.7	1.3	1.4	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.3	1.4
12-Feb	0.1	0.1	0.1	0.1	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.4	0.2	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.7
13-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Feb	0.0	Z	0.0	0.2	0.3	0.4	0.1	0.1	0.3	0.3	0.3	0.4	0.9	1.4	0.8	0.7	1.0	1.1	0.9	0.5	0.2	0.0	0.0	0.0	0.4	1.4
15-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1
16-Feb	0.1	0.0	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
17-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-Feb	Z	0.0	0.0	0.0	0.1	0.2	0.2	0.5	0.8	1.6	3.3	2.6	2.9	2.8	2.5	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.3
20-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	3.9	16.7	10.1	4.1	1.2	0.1	0.1	0.8	1.0	1.3	1.4	1.1	1.8	16.7
21-Feb	0.7	0.6	Z	0.6	0.1	0.3	0.2	0.3	0.4	0.3	0.4	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7
22-Feb	0.0	0.0	0.0	Z	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	0.1	0.0	0.1
23-Feb	0.0	0.1	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.2	0.2	0.0	0.0	1.8	0.9	0.6	0.5	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.2	1.8
24-Feb	0.0	0.0	0.1	0.1	0.1	Z	0.2	0.4	0.3	0.3	0.1	0.2	0.2	0.5	2.5	4.5	5.1	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.7	5.1
25-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.5	1.9	5.1	4.4	12.9	15.4	10.7	4.0	3.5	2.2	0.7	0.5	0.5	0.7	2.8	15.4
26-Feb	0.4	Z	0.5	0.5	0.4	0.3	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5
27-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.3
28-Feb	0.2	0.3	0.3	Z	0.4	0.5	0.7	0.7	0.8	0.8	1.5	2.2	4.4	8.6	2.0	1.2	0.7	0.5	0.4	0.3	0.3	0.2	0.1	0.1	1.2	8.6
	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.4	0.5	0.9	1.8	1.5	1.2	0.9	0.4	0.3	0.2	0.3	0.4	0.3	0.2	Diurnal Average	
	0.7	0.6	0.5	0.6	1.7	0.9	0.9	0.7	0.8	1.6	3.3	2.6	5.1	16.7	12.9	15.4	10.7	4.0	3.5	2.2	3.1	6.6	6.1	3.0	Diurnal Maximum	

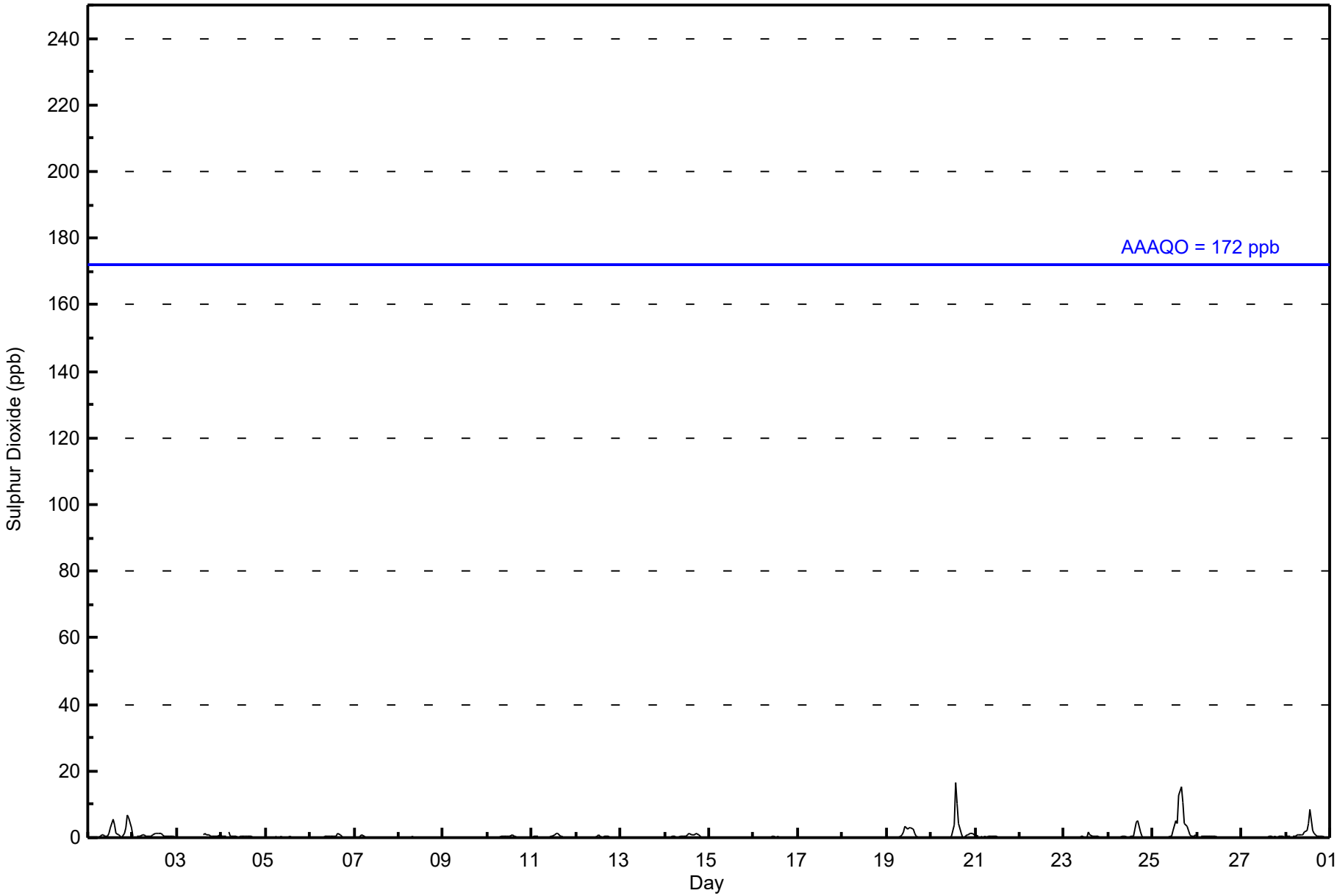
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Waskow ohci Pimatisiwin - February 2026



Sulphur Dioxide (SO_2) - ppb

Waskow ohci Pimatisiwin - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	636	99.38	99.38
11 - 20	4	0.63	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Waskow ohci Pimatisiwin - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	130	111	45	15	4	10	30	123	35	13	17	11	20	13	14	42	633
11 - 20	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	4
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	131	111	45	16	4	10	30	124	36	13	17	11	20	13	14	42	637

Total Number of Valid Hours: 637

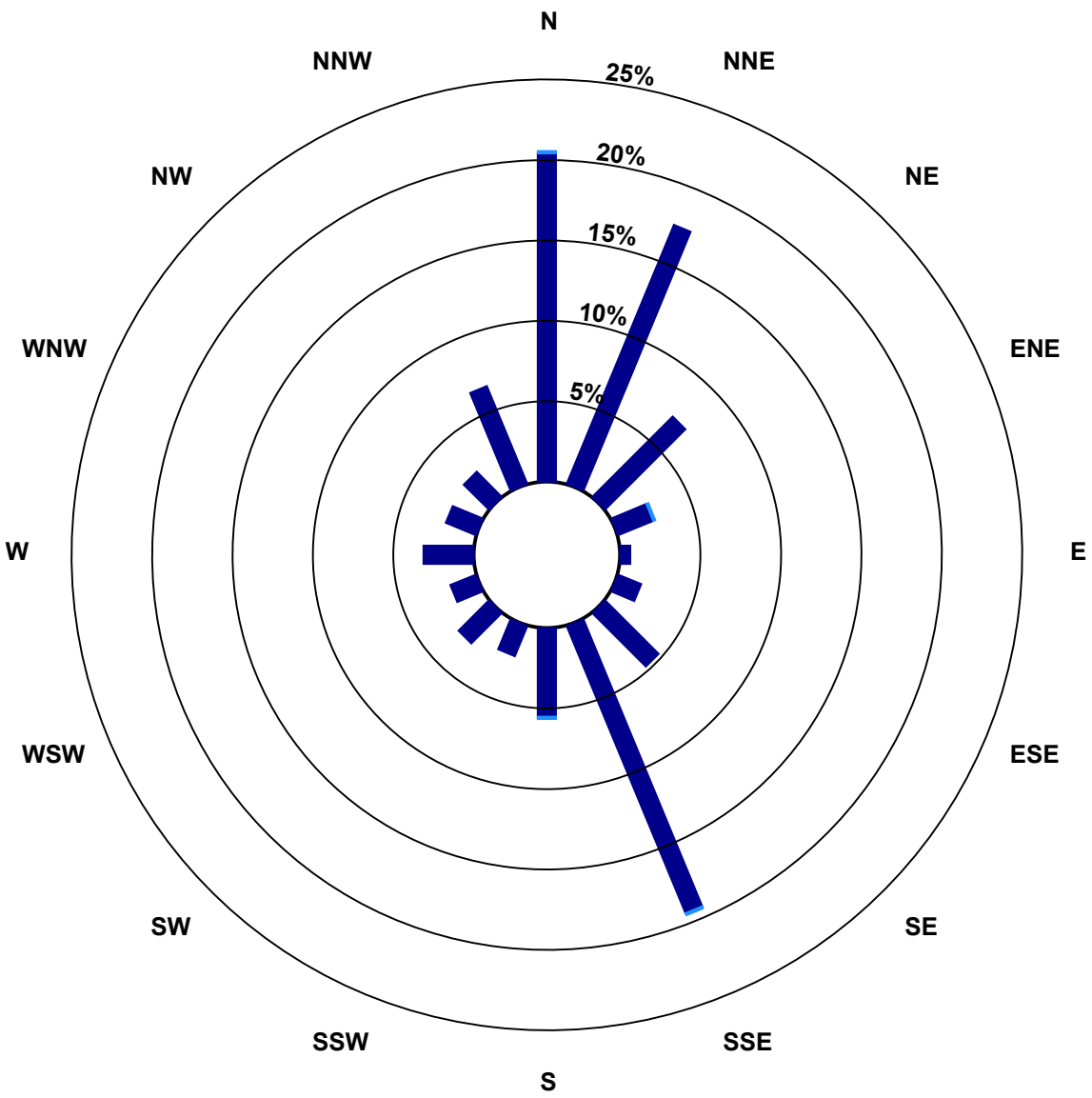
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Waskow ohci Pimatisiwin



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

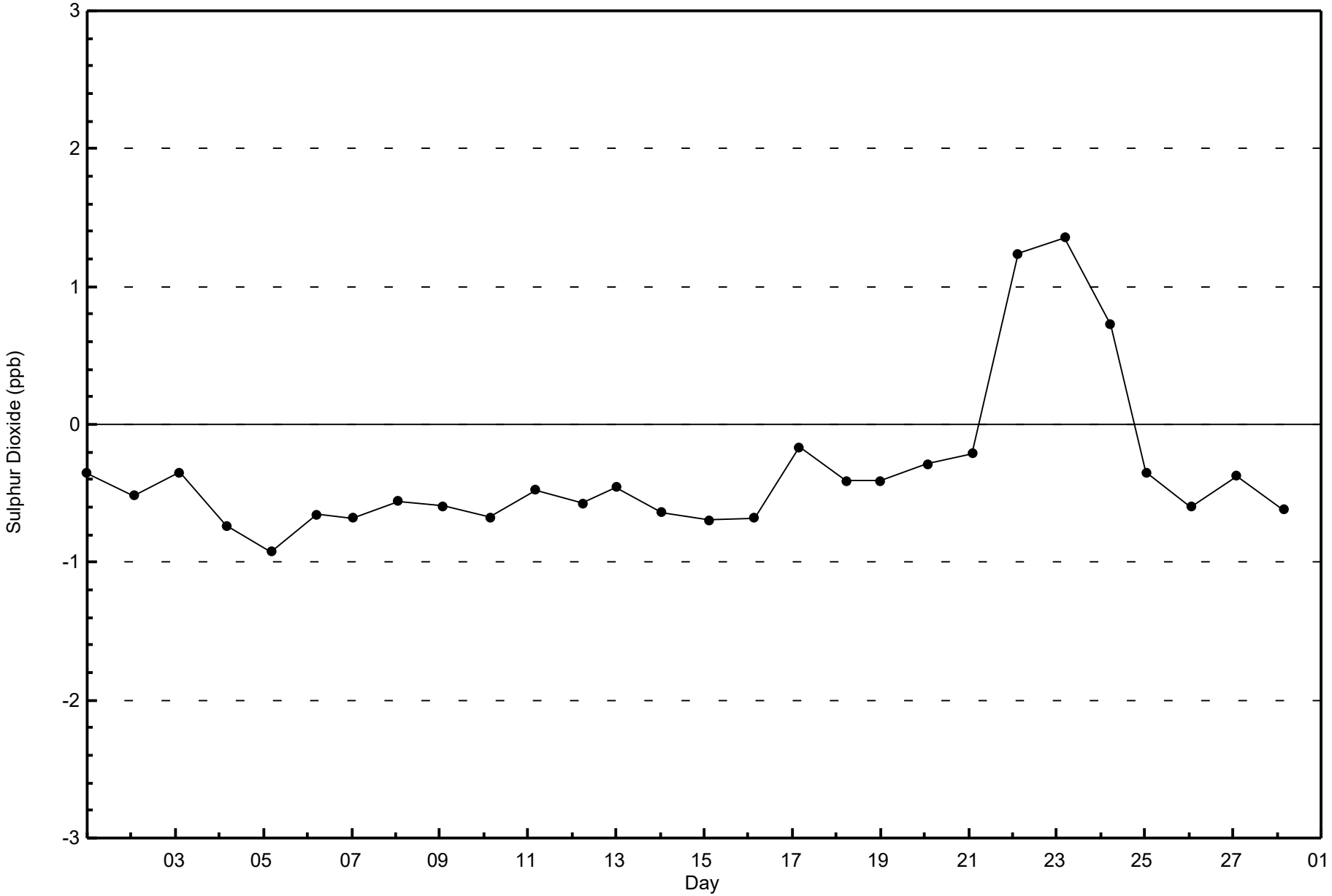
Total Number of Valid Hours: 637

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Waskow ohci Pimatisiwin - February 2026

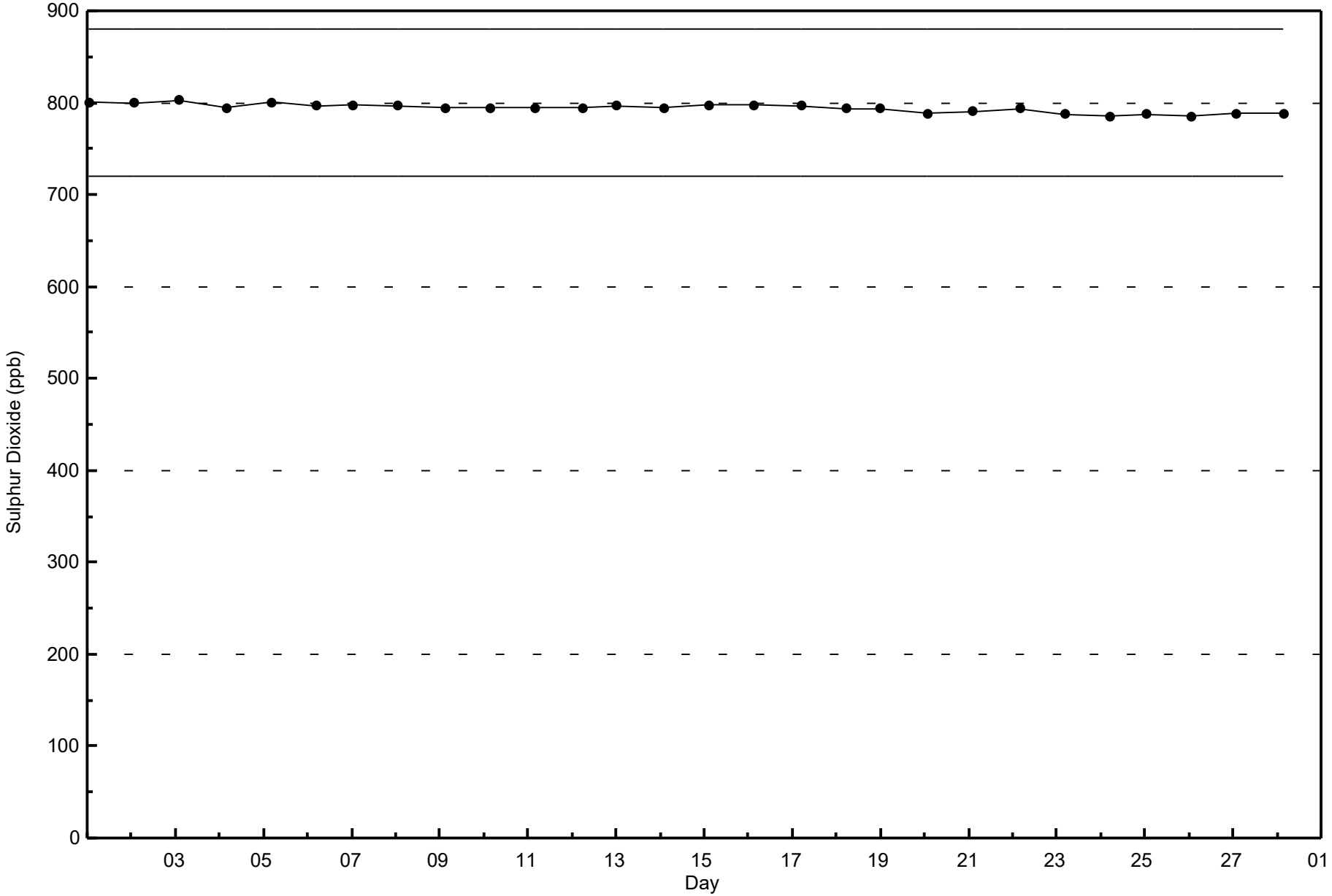


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Waskow ohci Pimatisiwin - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Waskow ohci Pimatisiwin - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 1.7 ppb on Feb 20 13:00 Maximum Daily Average: 1.0 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 18 14:00
Maximum Diurnal Average: 0.5 ppb at hour 13
Monthly Average: 0.35 ppb

Minimum Daily Average: 0.1 ppb on Feb 18
Minimum Diurnal Average: 0.2 ppb at hour 1
Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.2 Median = 0.2 Q_3 = 0.5 P_{90} = 0.8 P_{99} = 1.4

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.4
2-Feb	0.1	0.0	Z	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.4	0.9	0.5	0.3	0.3	0.3	0.9
3-Feb	0.3	0.3	0.2	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	M	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.4
4-Feb	0.1	0.1	0.1	0.1	Z	0.5	0.2	0.2	0.2	0.2	C	C	C	C	C	C	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	--	0.5
5-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.6	0.2	0.6
6-Feb	Z	0.7	0.4	0.4	0.4	0.4	0.6	0.8	0.7	0.9	0.8	0.7	0.7	0.6	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.4	0.5	0.9
7-Feb	0.4	Z	0.4	0.5	0.4	0.2	0.3	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.5
8-Feb	0.2	0.2	Z	0.3	0.3	0.6	0.7	0.6	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.7
9-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.4	0.5	0.4	0.3	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5
10-Feb	0.3	0.3	0.3	0.3	Z	0.4	0.3	0.5	0.6	0.5	0.6	0.6	0.7	1.2	0.9	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.5	1.2
11-Feb	0.5	0.8	0.8	1.3	1.4	Z	1.2	1.1	1.2	1.3	1.4	1.1	0.9	1.7	1.7	0.8	0.8	0.5	0.5	0.5	1.1	1.0	0.7	0.5	1.0	1.7
12-Feb	Z	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.3	0.5	0.6	0.8	0.8	0.5	0.3	0.3	0.3	0.3	0.2	0.6	1.3	0.1	0.1	0.1	0.4	1.3
13-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.2	0.6
14-Feb	0.6	0.5	Z	0.9	1.4	1.5	1.3	1.2	1.3	1.2	1.4	1.2	1.4	1.2	1.0	0.9	1.6	1.4	1.3	0.9	0.5	0.2	0.3	0.3	1.0	1.6
15-Feb	0.4	0.4	0.4	Z	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.4	0.4	0.1	0.2	0.3	0.4	0.5	0.4	0.5	0.3	0.5
16-Feb	0.4	0.3	0.3	0.2	Z	0.3	0.3	0.2	0.2	0.3	0.5	0.8	0.6	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.8
17-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.2
18-Feb	Z	0.1	0.1	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1
19-Feb	0.1	Z	0.5	0.6	0.9	0.8	0.8	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.2	0.3	0.6	0.4	0.5	0.6	0.4	0.9
20-Feb	0.6	0.5	Z	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.8	0.5	1.7	1.7	0.8	0.6	0.8	0.4	0.2	0.1	0.1	0.2	0.2	0.2	0.6	1.7
21-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3
22-Feb	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.2	0.4
23-Feb	0.3	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.3	0.8	0.7	0.6	0.4	0.4	0.5	0.7	0.8	0.6	0.6	0.5	0.5	0.5	0.4	0.8
24-Feb	Z	0.5	0.6	0.7	0.7	0.9	0.9	1.1	1.1	1.1	0.8	0.9	0.8	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	1.1
25-Feb	0.2	Z	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	1.1	0.5	0.5	0.4	0.9	0.9	0.9	0.9	0.8	0.5	0.3	0.2	0.2	0.2	0.5	1.1
26-Feb	0.2	0.2	Z	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3
27-Feb	0.1	0.0	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
28-Feb	0.2	0.2	0.2	0.2	Z	0.6	0.7	0.8	0.8	0.9	0.5	0.4	0.8	0.6	0.2	0.1	0.1	0.1	0.3	0.7	0.8	0.5	0.5	0.8	0.5	0.9
	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	Diurnal Average	
	0.6	0.8	0.8	1.3	1.4	1.5	1.3	1.2	1.3	1.3	1.4	1.2	1.7	1.7	1.7	0.9	1.6	1.4	1.3	0.9	1.3	1.0	0.7	0.8	Diurnal Maximum	

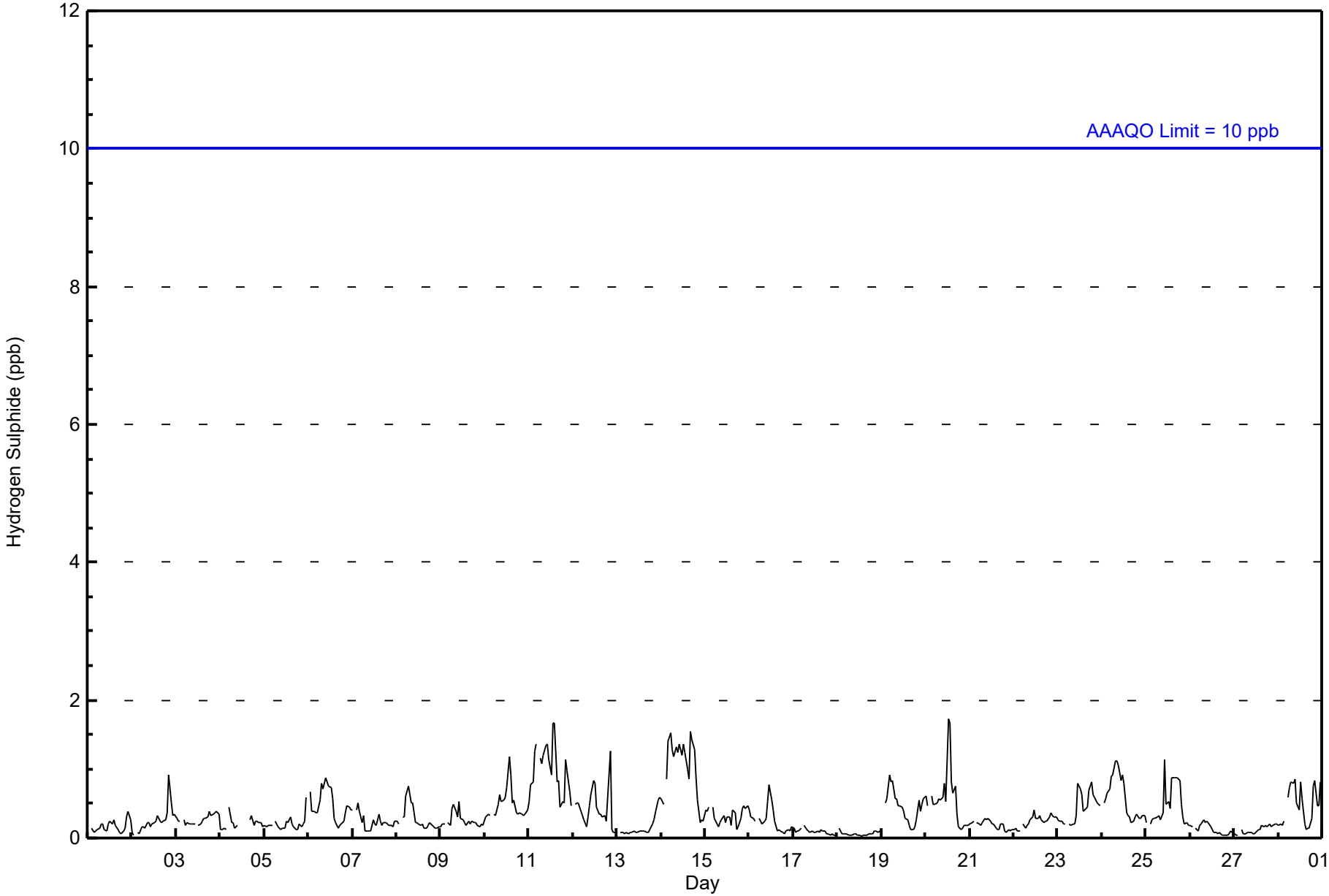
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Waskow ohci Pimatisiwin - February 2026



Hydrogen Sulphide (H_2S) - ppb

Waskow ohci Pimatisiwin - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	637	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Waskow ohci Pimatisiwin - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	135	113	45	16	4	11	30	124	34	13	15	8	20	13	13	41	635
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	135	113	45	16	4	11	30	124	34	13	15	8	20	13	13	41	635

Total Number of Valid Hours: 635

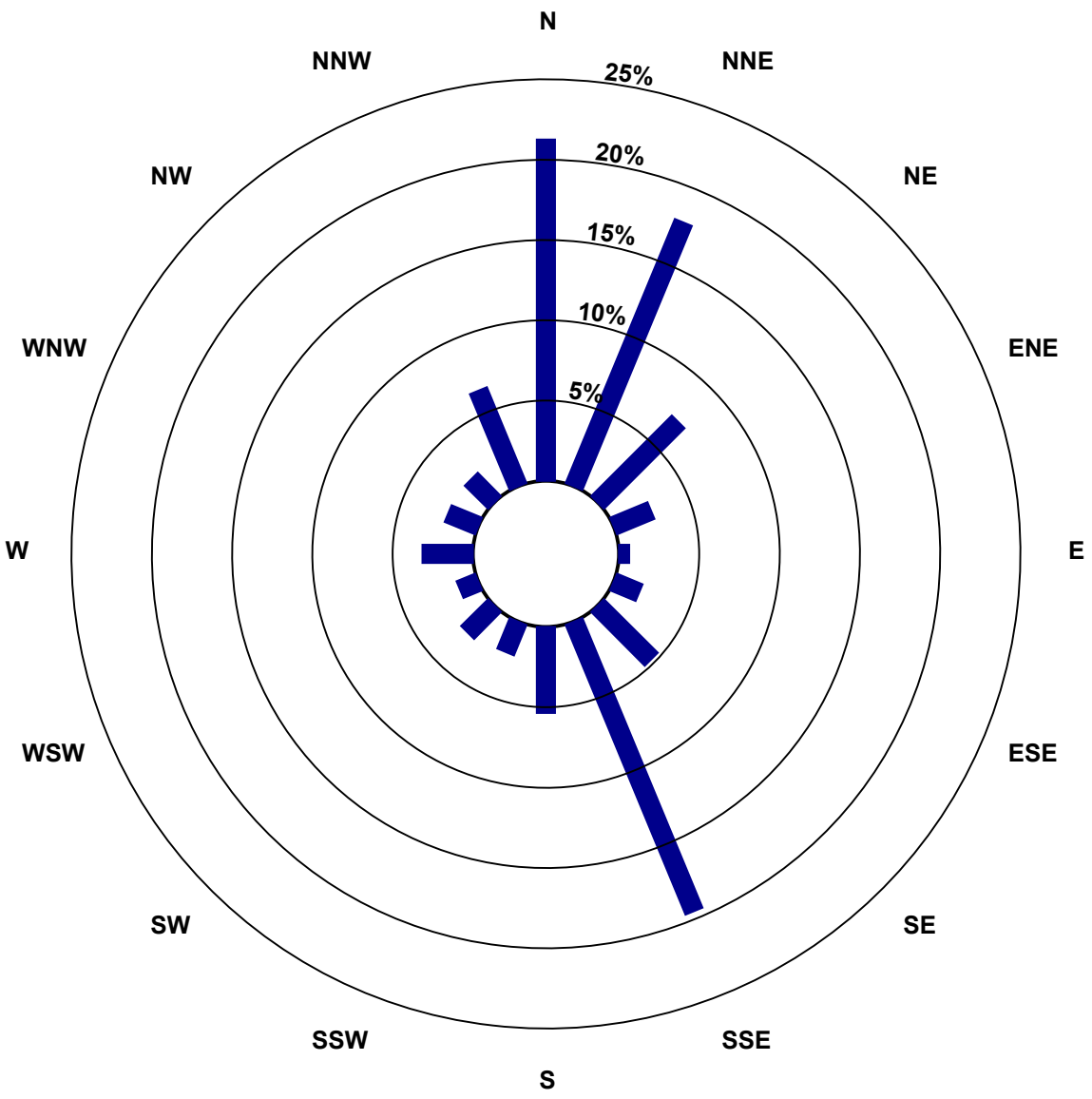
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Waskow ohci Pimatisiwin



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

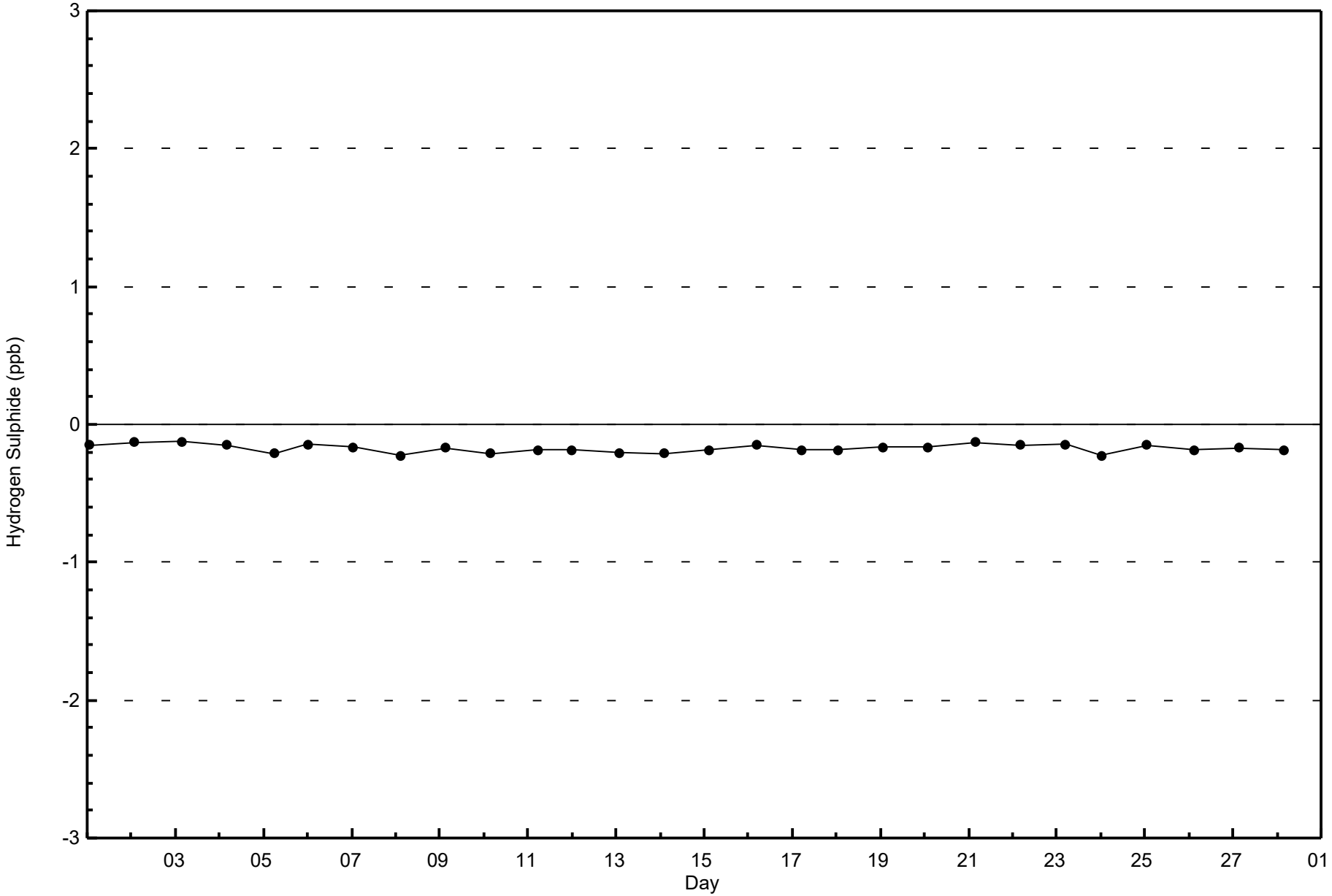
Total Number of Valid Hours: 635

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Waskow ohci Pimatisiwin - February 2026

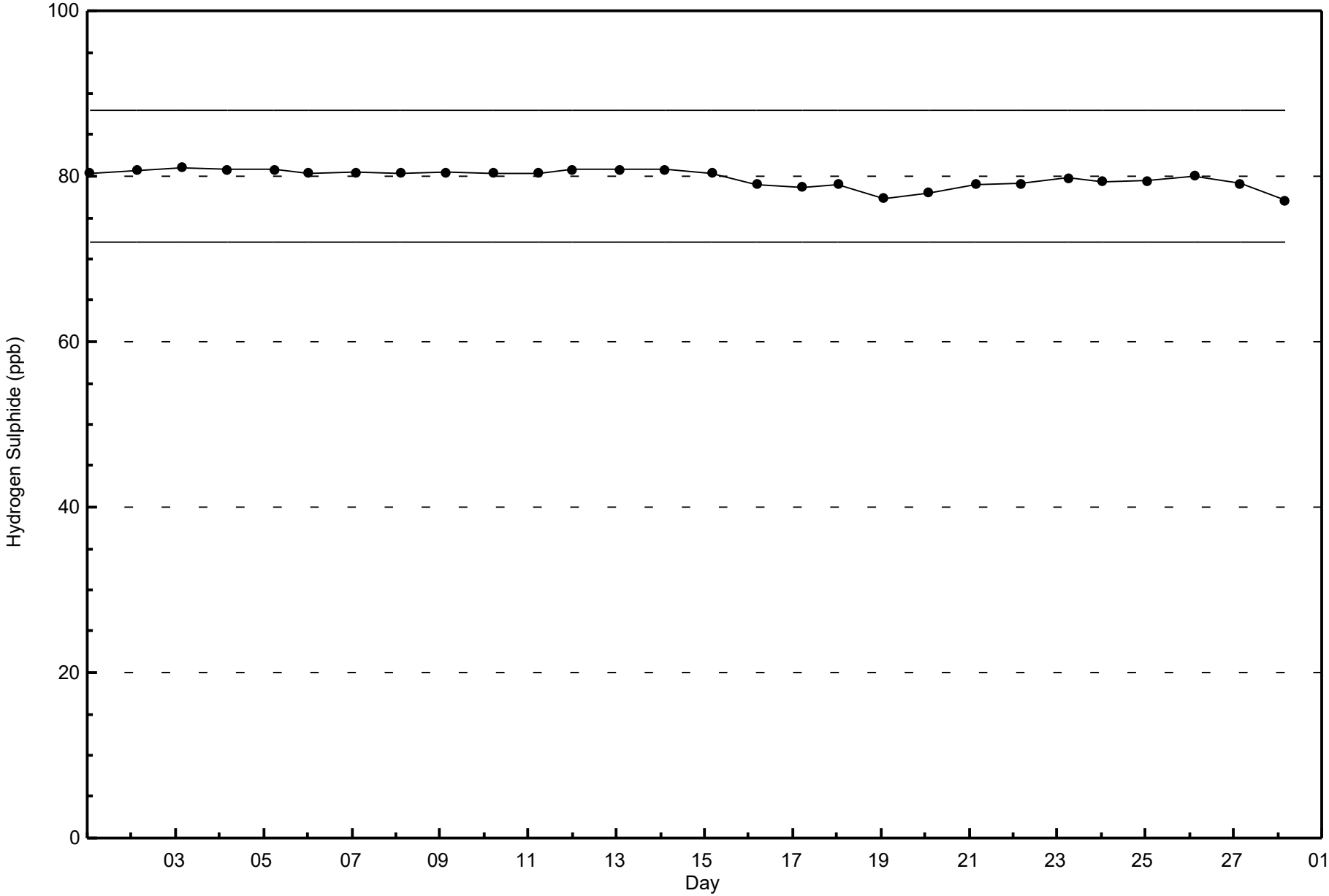


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Waskow ohci Pimatisiwin - February 2026



Maximum Value: 10.5 C on Feb 4 15:00

Maximum Daily Average: 0.8 C on Feb 13

Minimum Value: -39.6 C on Feb 28 07:00

Minimum Daily Average: -30.6 C on Feb 18

Maximum Diurnal Average: -11.5 C at hour 16

Minimum Diurnal Average: -18.7 C at hour 8

Monthly Average: -15.73 C

Percentiles: P_1 = -38.2 P_{10} = -28.7 Q_1 = -23.2 Median = -15.0 Q_3 = -9.2 P_{90} = -3.6 P_{99} = 5.8

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

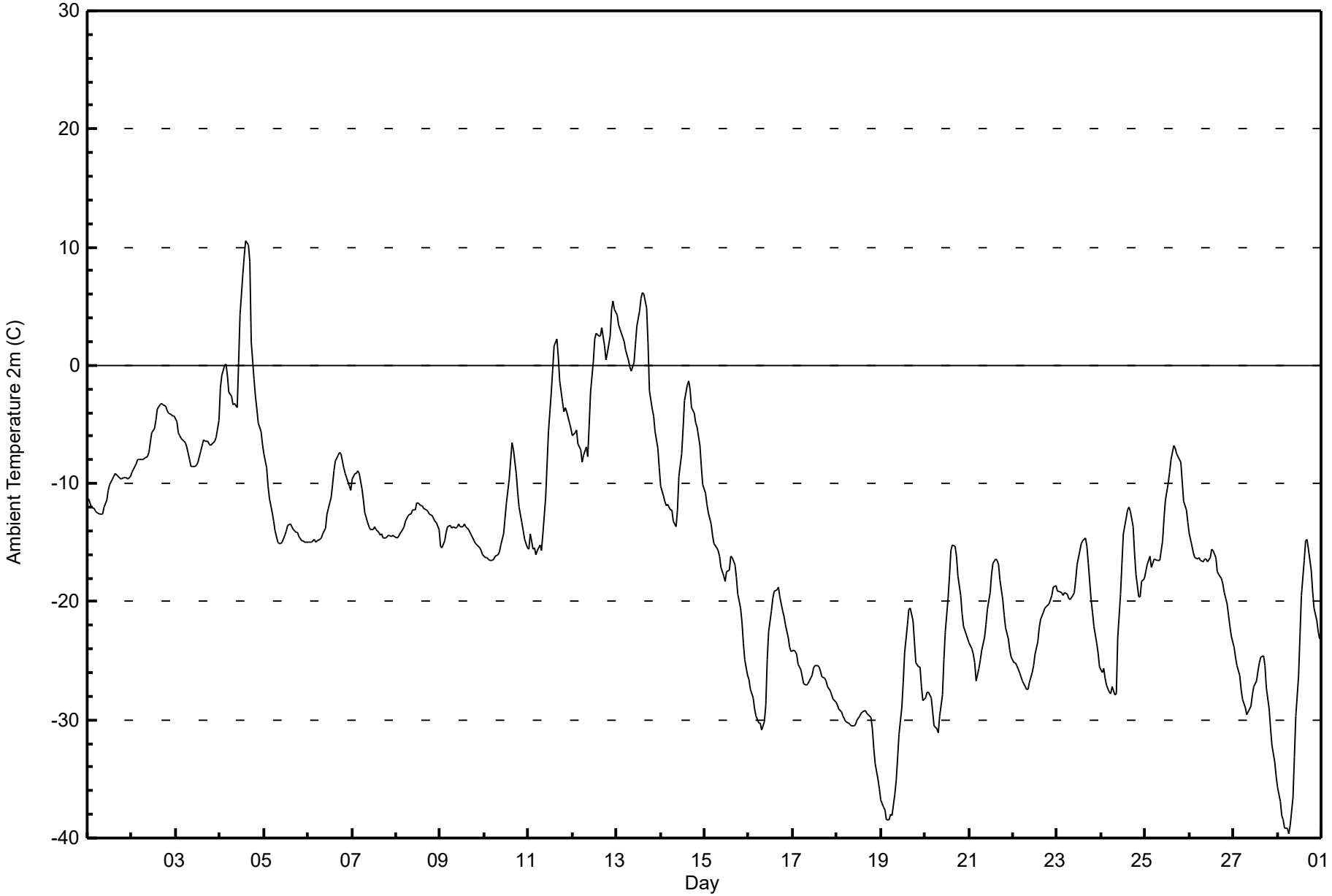
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.2	-11.6	-12.0	-12.1	-12.4	-12.5	-12.6	-12.6	-12.6	-12.0	-11.5	-10.5	-10.1	-9.7	-9.3	-9.1	-9.4	-9.5	-9.6	-9.5	-9.5	-9.5	-9.6	-9.4	-10.8	-9.1
2-Feb	-9.1	-8.8	-8.3	-8.0	-8.0	-7.9	-8.0	-7.9	-7.8	-7.3	-6.5	-5.7	-5.3	-4.6	-3.7	-3.3	-3.2	-3.4	-3.4	-3.8	-4.0	-4.2	-4.2	-4.3	-5.9	-3.2
3-Feb	-4.8	-5.7	-6.0	-6.2	-6.4	-6.5	-7.0	-7.9	-8.6	-8.6	-8.5	-8.4	-8.2	-7.2	-6.8	-6.3	-6.5	-6.5	-6.7	-6.8	-6.5	-6.4	-6.0	-4.7	-6.8	-4.7
4-Feb	-1.9	-0.8	0.0	0.1	-0.9	-2.3	-2.7	-3.3	-3.3	-3.6	0.2	4.3	7.7	9.2	10.5	10.2	8.8	2.0	-1.3	-2.6	-3.7	-4.9	-5.6	-6.6	0.4	10.5
5-Feb	-7.5	-8.7	-10.2	-11.3	-12.5	-13.2	-14.1	-15.0	-15.1	-15.1	-14.9	-14.4	-14.0	-13.5	-13.4	-13.7	-13.9	-14.1	-14.2	-14.5	-14.8	-14.8	-15.0	-15.0	-13.5	-7.5
6-Feb	-14.9	-15.0	-15.0	-14.7	-14.9	-14.9	-14.7	-14.6	-14.2	-13.7	-12.6	-12.1	-11.2	-10.1	-9.0	-8.1	-7.6	-7.4	-7.5	-8.7	-9.2	-9.6	-10.2	-10.6	-11.7	-7.4
7-Feb	-9.6	-9.1	-9.2	-8.9	-9.1	-10.5	-11.4	-12.4	-13.3	-13.6	-14.0	-13.8	-13.7	-13.9	-14.1	-14.3	-14.3	-14.6	-14.6	-14.4	-14.4	-14.5	-14.4	-14.4	-12.8	-8.9
8-Feb	-14.6	-14.5	-14.3	-13.9	-13.7	-13.1	-12.7	-12.6	-12.6	-12.3	-12.2	-11.6	-11.7	-11.9	-11.9	-12.1	-12.2	-12.3	-12.6	-12.8	-12.9	-13.2	-13.3	-13.9	-12.9	-11.6
9-Feb	-15.3	-15.5	-14.9	-14.1	-13.7	-13.6	-13.8	-13.7	-13.8	-13.6	-13.4	-13.7	-13.7	-13.4	-13.6	-14.0	-14.2	-14.4	-14.8	-15.1	-15.2	-15.4	-15.7	-16.0	-14.4	-13.4
10-Feb	-16.2	-16.3	-16.4	-16.5	-16.5	-16.3	-16.1	-16.0	-15.8	-15.3	-14.2	-12.9	-11.6	-9.6	-8.0	-6.6	-7.2	-9.2	-10.8	-12.0	-13.3	-14.1	-14.7	-15.5	-13.4	-6.6
11-Feb	-15.5	-14.3	-15.5	-15.4	-16.0	-15.7	-15.2	-15.7	-14.2	-11.1	-8.3	-5.6	-2.2	-0.4	1.7	2.2	0.6	-1.3	-3.1	-3.9	-3.6	-4.0	-4.9	-5.3	-7.8	2.2
12-Feb	-5.9	-5.8	-5.5	-6.7	-7.1	-8.2	-7.6	-6.9	-7.7	-5.1	-2.3	0.3	2.2	2.8	2.5	2.5	3.1	1.6	0.5	1.1	2.5	4.7	5.4	4.7	-1.5	5.4
13-Feb	4.2	3.4	3.1	2.3	2.0	1.2	0.5	-0.1	-0.4	0.3	1.8	3.3	4.6	5.6	6.1	6.1	4.8	1.8	-2.1	-3.7	-4.3	-5.6	-7.1	-8.6	0.8	6.1
14-Feb	-10.2	-11.1	-11.5	-11.8	-11.8	-12.2	-12.2	-13.2	-13.6	-12.2	-9.3	-7.4	-5.4	-3.0	-1.7	-1.3	-2.0	-3.6	-4.0	-4.9	-5.3	-6.7	-8.6	-10.1	-8.1	-1.3
15-Feb	-10.9	-11.8	-12.5	-13.4	-14.4	-15.1	-15.4	-15.6	-16.1	-17.1	-17.8	-18.3	-17.5	-17.4	-16.2	-16.3	-16.8	-17.9	-19.4	-20.6	-21.7	-23.5	-24.9	-26.3	-17.4	-10.9
16-Feb	-26.6	-27.5	-28.2	-29.1	-29.7	-30.3	-30.3	-30.8	-30.2	-28.8	-24.9	-22.6	-20.8	-19.7	-19.1	-19.0	-18.7	-19.6	-20.7	-21.3	-22.0	-23.1	-23.9	-24.2	-24.6	-18.7
17-Feb	-24.1	-24.2	-24.5	-25.3	-25.8	-26.4	-26.9	-27.0	-26.9	-26.7	-26.2	-25.7	-25.4	-25.4	-25.5	-25.9	-26.3	-26.5	-26.7	-27.2	-27.6	-27.9	-28.3	-28.5	-26.3	-24.1
18-Feb	-28.7	-29.1	-29.3	-29.7	-29.9	-30.1	-30.3	-30.4	-30.5	-30.5	-30.4	-30.1	-29.7	-29.5	-29.3	-29.2	-29.4	-29.6	-29.8	-30.8	-32.5	-33.8	-35.0	-35.8	-30.6	-28.7
19-Feb	-36.8	-37.4	-37.7	-38.4	-38.5	-38.0	-38.1	-36.3	-35.1	-33.2	-31.2	-28.9	-26.8	-24.3	-21.9	-20.7	-20.6	-21.7	-23.4	-25.1	-25.5	-25.5	-27.2	-28.4	-30.0	-20.6
20-Feb	-28.2	-27.6	-27.7	-28.1	-29.4	-30.5	-30.8	-31.1	-29.6	-27.9	-24.9	-22.6	-19.7	-17.9	-15.7	-15.2	-15.3	-16.2	-17.8	-19.5	-21.0	-22.1	-22.8	-23.2	-23.5	-15.2
21-Feb	-23.6	-24.0	-24.4	-25.2	-26.7	-25.7	-24.9	-24.1	-23.0	-22.0	-20.7	-19.2	-17.7	-16.8	-16.4	-16.5	-16.9	-18.2	-19.8	-21.1	-22.2	-23.2	-24.0	-24.7	-21.7	-16.4
22-Feb	-25.1	-25.2	-25.4	-26.0	-26.3	-26.8	-27.2	-27.4	-27.4	-26.9	-26.0	-25.4	-24.5	-23.3	-22.2	-21.5	-20.9	-20.6	-20.5	-20.2	-19.9	-19.5	-18.8	-18.7	-23.6	-18.7
23-Feb	-19.2	-19.2	-19.2	-19.4	-19.2	-19.3	-19.8	-19.8	-19.4	-19.3	-18.1	-16.9	-15.7	-15.1	-14.8	-14.6	-15.3	-16.7	-19.8	-20.9	-22.1	-23.5	-24.3	-25.6	-19.0	-14.6
24-Feb	-26.0	-25.7	-26.5	-27.0	-27.7	-27.8	-27.2	-27.9	-27.7	-23.1	-19.4	-16.8	-14.2	-13.0	-12.2	-12.0	-12.4	-13.7	-15.9	-17.7	-19.6	-19.6	-18.3	-18.0	-20.4	-12.0
25-Feb	-17.5	-16.8	-16.2	-17.1	-16.7	-16.4	-16.5	-16.6	-16.5	-14.9	-12.9	-11.4	-10.0	-9.0	-8.0	-6.8	-7.0	-7.5	-7.9	-8.2	-9.9	-11.5	-12.2	-13.3	-12.5	-6.8
26-Feb	-14.2	-15.3	-15.9	-16.2	-16.4	-16.3	-16.5	-16.6	-16.4	-16.4	-16.6	-16.3	-15.6	-15.7	-16.3	-17.4	-17.6	-18.0	-18.6	-19.3	-20.2	-21.1	-22.1	-22.9	-17.4	-14.2
27-Feb	-23.8	-24.7	-25.4	-26.2	-27.4	-28.2	-29.0	-29.6	-29.3	-28.9	-27.9	-27.1	-26.7	-25.9	-25.2	-24.7	-24.6	-25.4	-27.4	-29.1	-30.8	-32.2	-33.6	-34.8	-27.8	-23.8
28-Feb	-35.8	-36.9	-38.1	-38.4	-39.2	-39.1	-39.6	-38.9	-36.6	-33.2	-29.7	-26.2	-22.8	-19.5	-16.5	-14.8	-14.7	-15.6	-17.4	-19.2	-20.5	-21.7	-22.5	-23.2	-27.5	-14.7
	-16.9	-17.1	-17.4	-17.8	-18.1	-18.4	-18.6	-18.7	-18.5	-17.6	-16.2	-14.9	-13.6	-12.6	-11.8	-11.5	-11.8	-12.8	-13.9	-14.7	-15.3	-15.9	-16.5	-17.0	Diurnal Average	
	4.2	3.4	3.1	2.3	2.0	1.2	0.5	-0.1	-0.4	0.3	1.8	4.3	7.7	9.2	10.5	10.2	8.8	2.0	0.5	1.1	2.5	4.7	5.4	4.7	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Waskow ohci Pimatisiwin - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	208	30.95	30.95
-20 - 0	423	62.95	93.90
0 - 10	39	5.80	99.70
10 - 20	2	0.30	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 96.0 % on Feb 4 10:00

Maximum Daily Average: 84.9 % on Feb 4

Minimum Value: 34.6 % on Feb 13 16:00

Minimum Daily Average: 53.2 % on Feb 13

Maximum Diurnal Average: 78.6 % at hour 8

Minimum Diurnal Average: 65.5 % at hour 15

Monthly Average: 74.65 %

Percentiles: P_1 = 47.0 P_{10} = 60.8 Q_1 = 68.5 Median = 76.3 Q_3 = 81.9 P_{90} = 86.3 P_{99} = 93.0

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

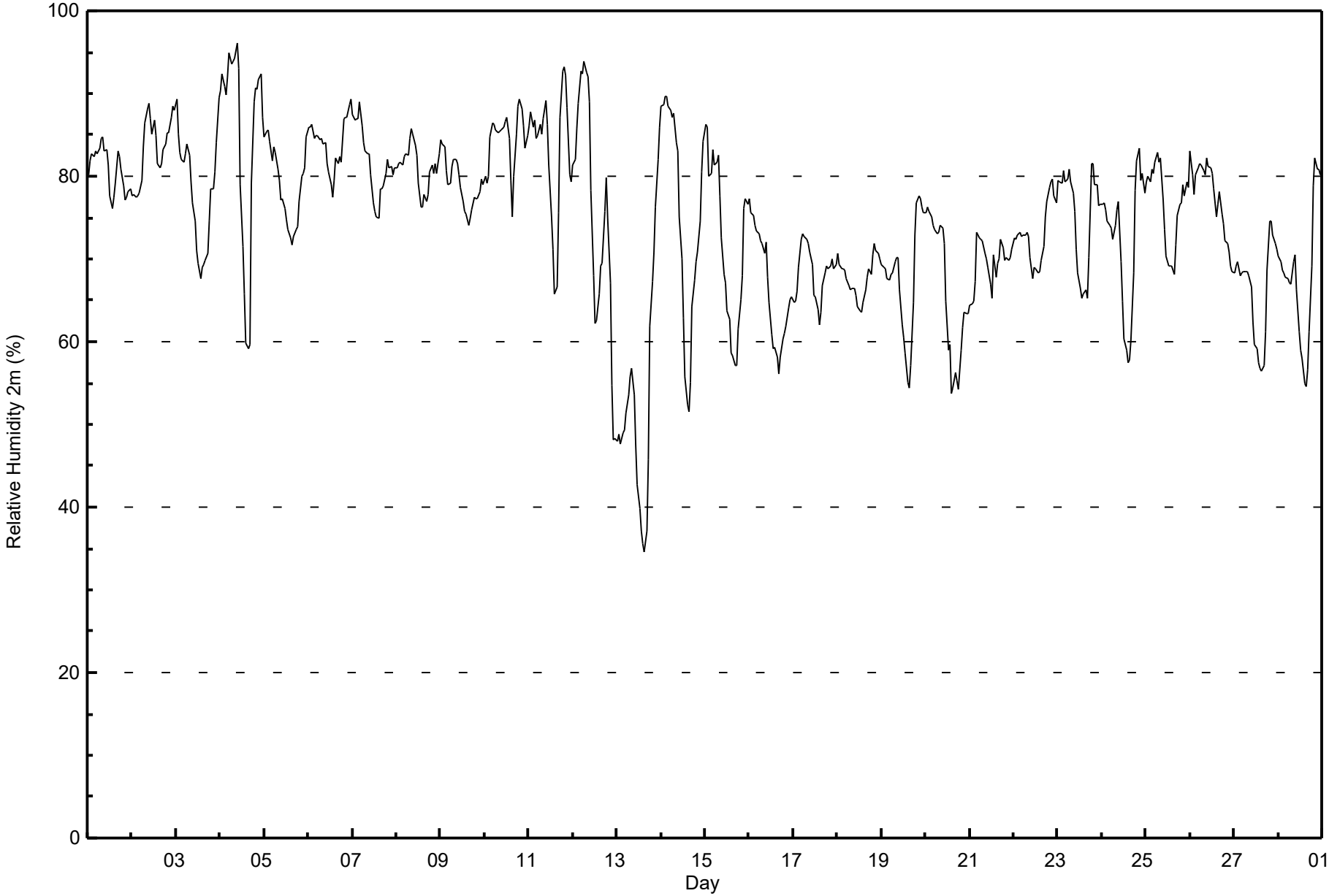
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	80.2	81.9	82.6	82.3	83.1	82.8	83.4	84.5	84.8	83.1	83.2	81.4	77.7	76.1	77.5	79.2	83.1	82.3	80.9	78.9	77.1	77.5	78.1	78.4	80.8	84.8
2-Feb	77.6	77.8	77.5	77.6	78.0	79.5	83.5	86.4	88.2	88.9	87.0	85.1	86.8	84.9	81.6	80.9	81.6	83.2	83.9	85.3	85.2	87.1	88.5	88.0	83.5	88.9
3-Feb	89.3	85.0	82.8	82.0	81.7	82.7	84.0	82.5	79.3	76.8	74.6	71.1	69.6	67.6	69.0	69.3	69.8	70.6	74.6	78.4	78.5	80.5	84.0	89.6	78.1	89.6
4-Feb	90.3	92.5	90.9	89.9	92.1	94.9	93.6	93.9	94.3	96.0	93.0	79.0	71.5	65.8	59.8	59.2	59.7	79.1	89.1	90.7	90.5	91.7	92.4	87.1	84.9	96.0
5-Feb	84.7	85.5	85.7	84.2	81.9	83.6	82.9	80.9	79.6	77.0	77.3	76.1	74.8	73.6	72.5	71.6	72.7	73.6	73.9	77.0	80.0	80.3	81.0	84.8	79.0	85.7
6-Feb	85.9	85.9	86.3	84.6	84.9	84.9	84.4	84.6	83.9	84.0	81.5	80.5	78.9	77.4	79.5	82.3	81.6	82.4	81.8	87.0	87.2	87.2	88.6	89.3	83.9	89.3
7-Feb	87.5	86.8	86.9	87.0	89.0	86.2	84.1	83.0	82.7	82.7	80.2	76.7	75.7	75.1	74.9	78.5	78.4	78.9	80.3	82.0	81.0	81.2	80.2	81.0	81.7	89.0
8-Feb	80.9	81.6	81.7	81.4	82.4	82.7	82.6	84.5	85.7	85.1	83.8	82.5	79.2	76.3	76.2	77.8	77.0	77.9	80.5	81.3	80.3	81.4	80.3	82.6	81.1	85.7
9-Feb	84.4	84.0	83.6	80.7	79.0	79.2	81.2	82.0	82.1	81.5	80.1	78.7	76.9	75.7	75.4	74.1	75.0	75.9	77.5	77.3	77.4	78.2	79.6	79.0	79.1	84.4
10-Feb	80.0	79.1	80.0	84.7	86.4	86.3	85.6	85.3	85.5	85.6	85.9	86.6	87.1	84.5	79.5	75.1	80.0	85.1	88.5	89.3	88.2	86.1	83.4	84.9	84.3	89.3
11-Feb	86.1	87.8	85.9	86.8	84.6	85.0	86.3	85.1	87.0	89.1	86.3	81.3	75.1	71.1	65.7	66.6	75.6	87.2	92.8	93.2	92.3	88.3	80.1	79.3	83.3	93.2
12-Feb	81.4	82.0	85.8	88.7	92.7	92.4	93.9	92.5	92.0	89.0	78.3	68.0	62.2	62.6	65.7	69.1	69.4	75.8	79.7	74.9	67.1	54.7	48.1	48.2	75.6	93.9
13-Feb	47.9	48.8	47.7	48.9	49.4	51.3	53.6	55.8	56.8	53.5	47.5	42.7	39.9	37.1	35.5	34.6	37.1	45.7	61.8	67.2	70.8	76.3	82.1	85.9	53.2	85.9
14-Feb	88.5	88.6	89.6	89.7	88.5	87.9	87.1	87.6	84.1	83.1	75.0	70.1	62.9	55.7	52.3	51.5	55.2	64.3	67.4	69.6	70.9	74.6	80.5	84.3	75.4	89.7
15-Feb	86.3	86.0	80.0	80.4	83.2	81.4	81.8	82.5	77.7	72.6	68.1	67.2	63.8	62.8	58.7	58.4	57.1	57.1	61.5	65.1	68.0	76.1	77.3	76.7	72.1	86.3
16-Feb	77.3	75.6	75.3	74.1	73.4	73.1	72.3	71.9	70.7	72.0	67.7	64.8	60.8	59.2	59.4	58.2	56.1	58.1	60.3	60.9	61.8	64.1	65.1	65.5	66.6	77.3
17-Feb	64.7	65.0	66.0	69.0	72.3	73.1	72.7	72.4	71.9	70.8	69.3	65.6	65.5	63.9	62.1	63.6	66.7	68.3	69.2	68.8	69.1	70.0	68.8	69.3	68.3	73.1
18-Feb	70.7	69.3	68.8	68.8	68.6	67.6	66.8	66.3	66.4	66.4	65.7	64.2	63.7	63.5	64.8	66.3	67.8	68.8	68.1	70.5	71.9	71.0	70.8	70.1	67.8	71.9
19-Feb	69.3	69.0	68.8	67.6	67.5	68.2	68.3	69.6	70.1	70.2	66.2	62.1	60.5	58.6	55.0	54.4	57.1	64.7	72.8	76.8	77.6	77.3	76.3	75.6	67.7	77.6
20-Feb	75.6	76.3	75.8	75.1	74.1	73.5	73.0	73.3	74.0	73.7	71.9	64.8	59.0	59.6	53.8	54.5	56.2	55.2	54.2	59.0	61.7	63.5	63.4	63.4	66.0	76.3
21-Feb	64.4	64.5	64.9	67.3	73.1	72.5	72.4	72.2	70.7	70.1	69.0	67.0	65.2	70.4	67.9	69.5	70.0	72.4	71.4	69.9	70.2	69.9	70.2	71.3	69.4	73.1
22-Feb	72.5	72.4	72.9	73.3	72.8	72.8	72.9	73.1	72.7	70.3	67.7	69.0	68.8	68.4	68.5	69.7	71.5	75.0	76.9	78.6	79.3	79.7	77.6	76.7	73.1	79.7
23-Feb	79.5	79.3	79.1	80.7	79.3	79.7	80.9	79.4	78.0	75.8	71.2	68.2	66.4	65.3	65.8	66.3	65.3	70.2	81.5	81.4	79.0	78.9	76.4	76.6	75.2	81.5
24-Feb	76.6	76.7	75.9	74.6	74.1	73.7	72.3	74.1	76.0	77.0	69.7	64.9	60.3	58.9	57.5	57.8	60.1	68.2	78.2	81.9	83.3	79.5	80.4	77.9	72.1	83.3
25-Feb	79.3	80.0	79.4	80.9	80.3	81.8	82.9	81.7	82.3	77.2	73.5	70.4	69.2	69.2	69.1	68.2	71.6	75.3	76.6	76.7	79.0	77.6	79.3	78.7	76.7	82.9
26-Feb	83.1	80.1	77.7	80.2	80.9	81.5	81.3	80.6	80.3	82.2	81.1	81.0	80.4	78.5	75.1	76.6	78.2	75.4	74.2	72.2	71.9	70.8	69.1	68.5	77.5	83.1
27-Feb	68.3	69.2	69.6	67.9	68.2	68.5	68.5	68.4	68.0	66.7	62.3	59.7	59.1	57.5	56.8	56.5	57.1	61.2	68.7	74.6	74.5	73.0	71.9	71.1	66.1	74.6
28-Feb	70.4	69.6	68.6	68.3	67.8	67.7	67.1	66.9	69.6	70.4	66.4	61.2	59.0	58.0	54.8	54.6	56.7	61.2	69.2	78.9	82.2	80.9	80.8	80.2	67.9	82.2
	77.9	77.9	77.5	77.7	78.2	78.4	78.5	78.6	78.4	77.5	74.4	71.1	68.6	67.0	65.5	65.9	67.4	71.2	74.8	76.7	77.0	77.1	76.9	77.3	Diurnal Average	
	90.3	92.5	90.9	89.9	92.7	94.9	93.9	93.9	94.3	96.0	93.0	86.6	87.1	84.9	81.6	82.3	83.1	87.2	92.8	93.2	92.3	91.7	92.4	89.6	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Waskow ohci Pimatisiwin - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	5	0.74	0.74
40 - 60	58	8.63	9.38
60 - 80	372	55.36	64.73
80 - 100	237	35.27	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Waskow ohci Pimatisiwin - February 2026

Maximum Speed: 21 km/h on Feb 26 20:00

Maximum Daily Speed Average: 14.9 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 12 02:00

Minimum Daily Speed Average: 0.4 km/h on Feb 10

Maximum Diurnal Speed Average: 3.8 km/h at hour 18

Minimum Diurnal Speed Average: 1.8 km/h at hour 6

Monthly Average Velocity: 2.4 km/h 21.9 deg

Percentiles: $P_1 = 0$ $P_{10} = 1$ $Q_1 = 2$ Median = 4 $Q_3 = 7$ $P_{90} = 10$ $P_{99} = 18$

Hours in Service: 672

Hours of Data: 669

Hours of Missing Data: 3

Percent Operational Time: 99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ENE2	ESE1	ESE3	SSE3	SSE4	SE3	SE4	SE3	SSE3	SSE4	SSE4	SSE7	SSE8	SSE8	SSE7	SSE6	SSE7	SE3	SE4	SSE6	SSE7	SSE7	SSE6	SSE7	SSE4.8	SSE8
2-Feb	SSE8	SSE8	SSE8	SSE6	SSE7	SSE6	SSE6	SSE5	SE3	SSE5	SSE6	SSE5	SSE5	SE6	SSE4	SSE3	SE1	NNE1	N2	NNW4	NNW4	NNE5	N3	NNE3	SSE3.0	SSE8
3-Feb	N6	NNE6	NNE3	NE3	NNE3	NE2	NE3	NE4	NE3	NE3	NE3	NNE3	N3	NE1	NW2	NE2	NE2	N1	NE1	N2	NNE2	N2	N1	SE2	NNE2.4	N6
4-Feb	SSE8	SSE10	SSE10	SSE9	WSW2	WSW3	SSE2	NNW2	SW1	S3	S3	WSW3	WSW6	SW4	SW5	SW5	WNW6	NNE11	N12	N13	N11	N10	N8	NNE9	NNW0.9	N13
5-Feb	NNE10	NNE10	N11	NNE10	N11	N9	N11	NNE13	NNE9	NNE8	N7	NNE6	ENE4	ENE3	ENE4	NE4	NE4	ENE3	ENE3	NE4	NE4	NE3	NNE4	NNE4	NNE6.2	NNE13
6-Feb	N4	N4	NNW4	N3	N3	N4	N4	NNW4	N3	N5	N4	N3	NNW1	ESE2	S4	SSE5	SE3	E1	WNW1	W3	WNW3	NW1	ENE1	SSE2	N1.4	N5
7-Feb	N2	NW2	NNW1	N3	NE7	NNE6	NNE6	NNE8	NNE8	NNE8	NE7	NE6	NNE8	NNE7	NE6	NNE7	NNE5	N6	N6	NNE6	N7	N7	N7	NNW7	NNE5.6	NNE8
8-Feb	NNW7	NNW6	NNW5	NW5	NNW5	N3	NNW2	NW4	NNW2	N4	NNW7	N7	N8	N7	NNE5	N6	NNE5	NNE3	NNE3	NE2	NE3	ENE2	N2	ESE1	N3.9	N8
9-Feb	NW0	NNW1	N1	ENE1	NE2	NNE2	N3	NE3	NE4	NNE4	NNE5	N8	N9	N8	N8	N9	N8	N8	N8	N6	NNE6	NNE5	N6	N6	N4.9	N9
10-Feb	N7	NNW5	NNW5	NNW5	NNW4	NNW4	NNW3	NW2	W2	W2	SSE1	ESE2	SSE3	SE4	S5	S5	SSW2	WSW1	ESE1	ENE1	SSE2	SSE2	SSE2	SSE2	WNW0.4	N7
11-Feb	SSE3	SSE4	SSE3	SSE3	SW1	SSW2	SSE2	S3	S3	S3	S3	SSE3	SSE4	SSE4	SSE4	SSE4	S3	UO	SE0	SSE2	SSW2	N3	N2	NE1	SSE2.2	SSE4
12-Feb	UO	S0	S2	ESE2	SSE1	SSE1	SE3	S4	SSE4	SSE5	SSE6	SSE7	SSE6	SSE7	SSE6	SSE5	S5	SSE6	SSE5	S5	SSE6	SSW7	SW9	SW9	S4.3	SW9
13-Feb	SSW7	SW8	SW9	WSW9	WSW12	W11	W7	W6	SSW3	SW5	WSW6	SW7	SW7	SW7	SW7	SW7	SSW3	SSW2	SSW2	W1	WNW4	NNW1	W0	SW0	SW5.0	WSW12
14-Feb	SSE2	SW1	S4	SSE4	SSE5	SSE4	SSE3	SSW1	NNE1	N2	NE2	NNE3	NE2	ESE2	NE2	NE2	N5	NNW6	N4	NW3	N3	NNE3	NNW9	N2	NNE1.0	NNW9
15-Feb	N5	NNE5	NNE7	N7	N8	NNE5	NNE6	NNE5	NNE6	NE5	NE6	NE5	NE5	NE4	NE4	ENE4	NE4	NNE4	NNE3	NNE3	N3	NNW2	NW2	WNW3	NNE4.2	N8
16-Feb	NW2	WSW1	W2	W1	W1	W2	NW2	W1	NNW1	NE1	NE2	NNE5	NNE5	NNE6	NNE9	NNE8	N9	N8	N9	N8	NNE11	N11	N11	N10	N4.8	NNE11
17-Feb	NNE11	NNE12	NNE12	NNE10	NNE10	NNE9	NNE13	NNE13	NNE13	NNE15	NNE18	NNE16	NNE18	NNE16	N18	N18	N16	N18	N18	N17	N16	N16	N18	NNE16	NNE14.9	N18
18-Feb	NNE14	NNE18	NNE17	N17	N16	N18	N18	N16	NNE14	N15	N14	NNE13	NNE12	NNE12	NNE12	NNE10	N10	N9	NNW6	WNW2	WSW2	SW1	WSW2	S1	N10.7	N18
19-Feb	S1	SSE3	SSE2	SSE1	SSE1	SSW2	S3	SSE4	SSE5	SSE7	SSE7	SE8	SE8	SSE10	SSE9	SSE8	SSE6	SSE3	SSE2	SSE3	S3	S3	S1	S2	SSE4.2	SSE10
20-Feb	SSE4	SSE5	SSE5	SSE4	S3	SSE3	S2	SSE3	S4	SSE4	SSE3	SE5	SE4	ENE3	NE4	NNE6	NNE6	N7	N9	N9	N8	N8	N7	N5	NE1.5	N9
21-Feb	N5	NNW4	N5	NE3	SSE1	SSE2	S1	WNW1	W2	WNW2	NNW2	NNE3	NE3	NE4	NNE10	NNE9	NNE9	N12	N11	NNE9	NNE10	NNE10	N10	NNE9	NNE5.1	N12
22-Feb	NNE7	NNE7	NNE7	N8	N9	N10	N10	N8	N8	N8	N7	N7	N8	N7	N7	N6	N6	NNW4	NNW4	N4	NNW4	NNW2	NNW2	NNW2	N6.2	N10
23-Feb	NNW2	N2	N1	S2	ESE2	SSE2	SE2	SE1	E1	S4	SSE5	ESE3	ESE3	ENE3	NE3	NNE3	NE3	NNE2	W2	W2	WNW0	WNW2	WNW1	SSW0	E0.6	SSE5
24-Feb	SSE1	SE1	SE1	SSE1	SSE1	SSE2	SSE2	NW1	S2	S4	SSE5	SE6	SE5	SE6	SE8	SSE6	SSE6	SSE3	SSE1	SSW0	SSE1	SSE1	UO	NNW1	SSE2.7	SE8
25-Feb	N2	NNW3	NNW2	WNW1	NNW1	NNW1	SE1	SSE0	SSE2	SE2	SSE5	SE6	SE7	SSE5	S5	SSE3	N5	N7	N7	NNE8	N9	N9	NNE7	NNE9	NE1.8	N9
26-Feb	NNE6	NNE8	NNE8	NNE8	NNE7	N7	N9	N10	NNE8	N9	N13	N13	N14	NNE15	N16	N15	N14	N19	N17	N21	N19	N14	N11	N11	N12.1	N21
27-Feb	NNE11	NNE10	NNE10	NNE9	NNE8	NNE5	NE2	NNE3	NE4	ENE4	ENE4	ENE4	ENE4	E4	E4	NNE5	NNE3	N1	NW1	W2	WNW3	W2	W2	W2	NNE3.5	NNE11
28-Feb	W1	SW1	S1	ESE0	S1	SSW2	S2	S3	SSE5	SE4	SSE7	SSE7	SSE8	SSE9	SSE10	SSE10	SSE9	SSE7	SSE4	S3	SSE1	S2	S2	NW3	SSE4.0	SSE10
	NNE2.5	NNE2.3	NNE2.0	NNE1.8	N2.2	N1.8	NNE2.2	NNE2.2	NE1.9	NE1.9	NE2.2	NE2.4	NE2.3	ENE2.4	NE2.0	NE2.2	NNE2.6	N3.8	N3.7	N3.6	N3.5	N3.2	N3.3	N2.6	Diurnal Average	
	NNE14	NNE18	NNE17	N17	N16	NNE18	N18	N16	NNE14	N15	NNE18	NNE16	NNE18	NNE16	N18	N18	N16	N19	N18	N21	N19	N16	N18	NNE16	Diurnal Maximum	

UO - Unstable Operation

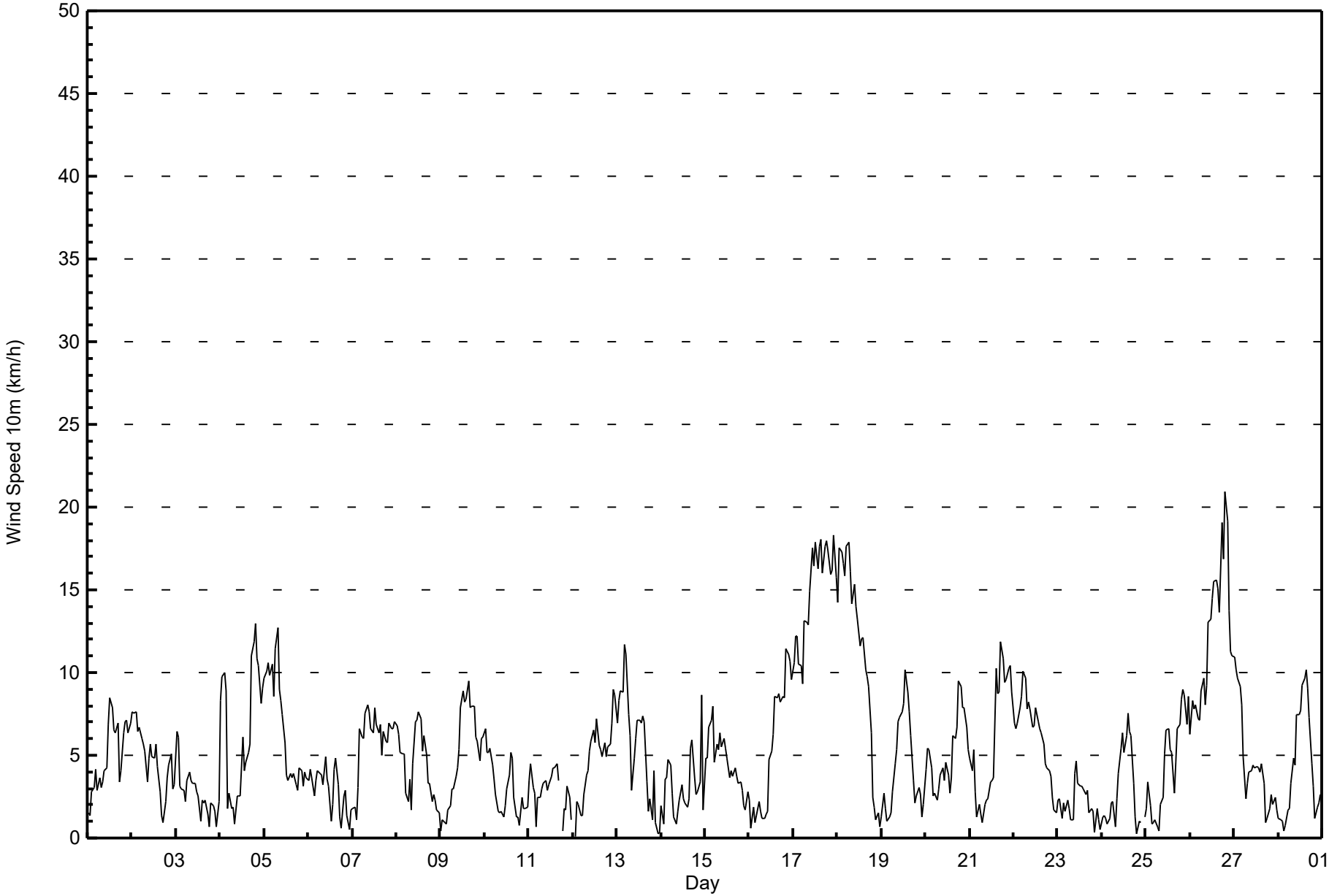
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Waskow ohci Pimatisiwin - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	403	60.24	60.24
6 - 11	214	31.99	92.23
12 - 19	51	7.62	99.85
20 - 28	1	0.15	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 669

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Waskow ohci Pimatisiwin - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	39	37	42	17	4	12	22	83	37	12	10	7	18	12	14	37	403
6 - 11	71	59	5	0	0	0	8	46	0	2	9	3	3	1	0	7	214
12 - 19	28	22	0	0	0	0	0	0	0	0	0	1	0	0	0	0	51
20 - 28	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	139	118	47	17	4	12	30	129	37	14	19	11	21	13	14	44	669

Total Number of Valid Hours: 669

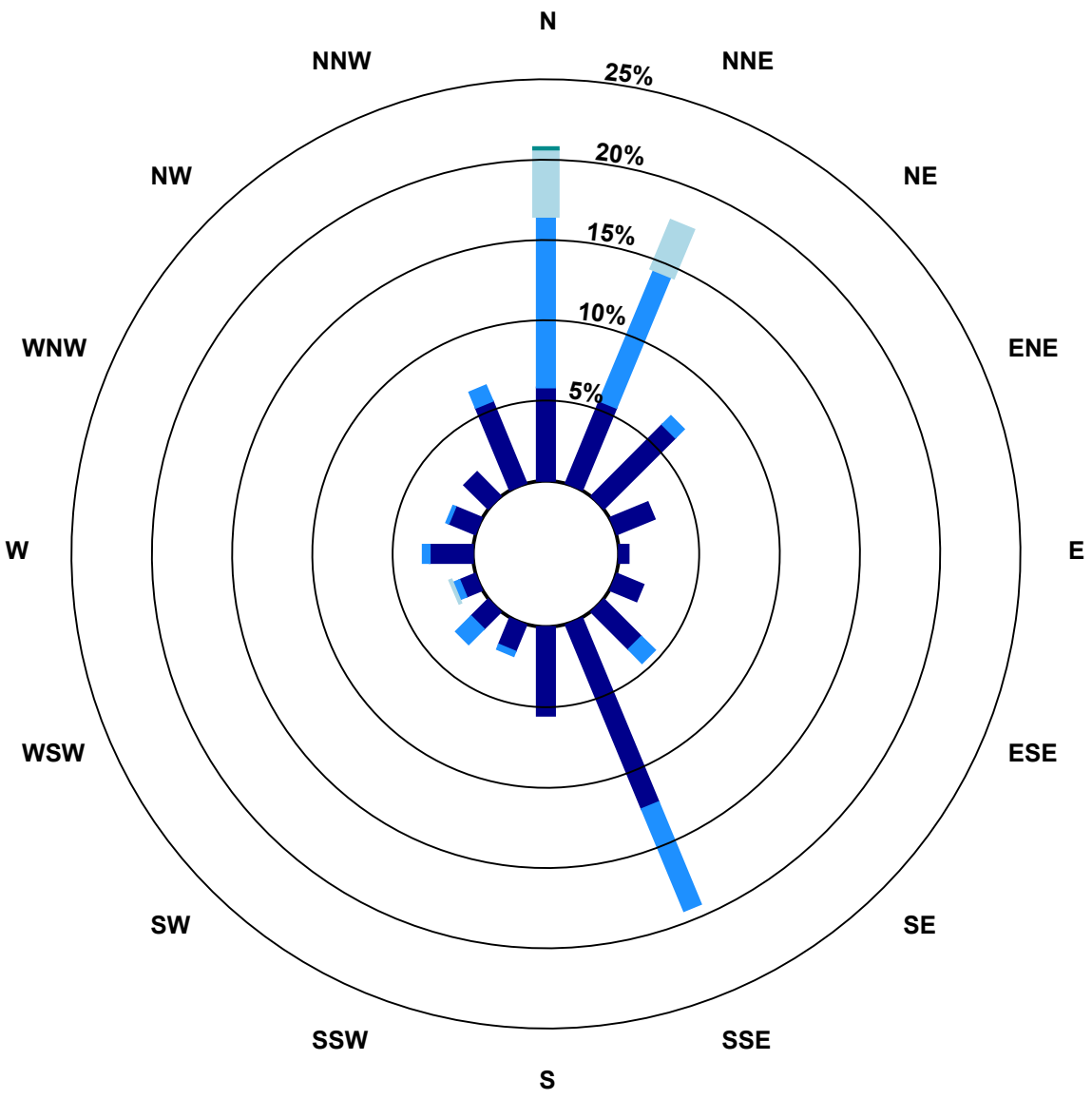
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Waskow ohci Pimatisiwin



Classes (km/h)

0 - 5

6 - 11

12 - 19

20 - 28

29 - 38

> 38

Total Number of Valid Hours: 669

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Waskow ohci Pimatisiwin - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 7 km/h on Feb 26 20:00

Minimum Value: 1 km/h on Feb 18 23:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 1 Q_3 = 2 P_{90} = 4 P_{99} = 6

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Hours of Calibration:	0
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	1	1	1	2	1	1	1	1	1	1	3	3	3	2	2	2	1	2	3	2	2	2	2	3
2-Feb	3	2	2	2	2	2	2	2	1	2	2	1	1	2	2	1	1	1	1	1	1	1	1	1	3
3-Feb	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
4-Feb	3	4	4	3	1	1	1	1	1	1	1	3	3	2	3	2	4	4	4	4	3	3	3	3	4
5-Feb	3	3	3	3	3	3	5	5	3	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	5
6-Feb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7-Feb	1	1	1	2	2	2	2	3	3	3	3	2	3	3	2	2	2	2	2	2	2	2	2	2	3
8-Feb	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2
9-Feb	1	1	1	1	1	1	1	1	1	2	2	3	2	2	2	3	2	2	2	2	2	1	2	1	3
10-Feb	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	2
11-Feb	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	UO	1	1	1	2	1	1	2
12-Feb	UO	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	2	2	2	2	2	3	4	4	4
13-Feb	3	3	4	3	5	5	3	3	2	2	3	3	3	3	3	3	2	1	1	2	1	1	1	1	5
14-Feb	1	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1	2	2	1	1	1	1	3	1	3
15-Feb	1	2	2	2	3	2	2	2	2	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1	3
16-Feb	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	2	3	4	4	3	3	4
17-Feb	4	4	4	4	4	4	5	5	5	5	6	6	6	6	7	6	6	6	7	6	6	6	6	6	7
18-Feb	5	6	6	6	6	6	6	6	5	5	5	5	5	4	4	4	4	3	2	1	1	1	1	1	6
19-Feb	1	1	2	1	1	1	1	1	2	3	2	3	3	3	3	2	2	1	1	1	1	1	1	1	3
20-Feb	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	2	2	2	2	3
21-Feb	1	1	2	2	1	1	1	1	1	1	1	1	1	1	3	4	3	4	4	4	4	4	4	3	4
22-Feb	2	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	2	1	1	1	1	3
23-Feb	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2
24-Feb	1	1	1	1	1	2	1	1	2	1	2	2	2	2	2	2	2	1	1	1	1	1	UO	1	2
25-Feb	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	2	2	2	3	3	3	3	3	3
26-Feb	2	3	2	3	3	3	3	3	3	3	5	5	6	5	5	5	5	6	6	7	6	5	4	4	7
27-Feb	4	4	4	3	3	2	1	1	2	1	2	1	1	1	1	2	2	1	1	1	1	1	1	1	4
28-Feb	1	1	1	1	1	1	2	1	1	2	2	2	3	3	3	3	3	2	1	1	1	1	1	1	3
	5	6	6	6	6	6	6	6	5	5	6	6	6	6	7	6	6	6	7	7	6	6	6	6	
	Diurnal Maximum																								

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Waskow ohci Pimatisiwin - February 2026

Direction of Maximum Speed: 4 deg on Feb 26 20:00
Direction of Maximum Daily Speed Average: 13.7 deg on Feb 17

Direction of Minimum Speed: 185 deg on Feb 12 02:00

Direction of Minimum Daily Speed Average: 0.4 deg on Feb 10

Monthly Average Direction: 21.9 deg

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	59	106	102	149	149	136	145	139	152	148	147	156	153	156	157	162	153	127	144	154	153	157	155	157	149.7
2-Feb	160	163	162	162	165	154	158	156	138	151	152	149	150	146	153	152	132	19	2	347	335	25	2	18	147.4
3-Feb	2	12	32	43	27	49	44	50	46	43	49	33	352	56	313	36	36	8	56	354	19	350	349	135	27.4
4-Feb	157	155	163	165	243	252	162	331	221	171	172	245	251	225	217	230	295	13	6	357	360	0	6	15	338.6
5-Feb	20	17	8	18	9	10	9	12	17	22	1	21	59	73	57	52	54	64	58	43	50	41	18	28	23.0
6-Feb	6	359	338	6	359	349	349	341	350	354	4	4	343	122	171	149	142	96	293	268	282	324	60	163	356.1
7-Feb	357	306	342	349	34	26	33	24	26	30	38	47	26	29	44	26	22	6	8	13	10	356	353	345	19.0
8-Feb	345	342	346	319	329	5	335	319	339	2	335	354	7	10	17	10	19	33	22	52	54	61	11	113	359.4
9-Feb	320	339	7	58	49	21	4	50	38	32	29	1	359	11	2	356	4	357	1	1	22	14	357	357	7.8
10-Feb	350	339	331	334	334	327	330	319	266	277	148	123	148	145	188	173	210	243	112	65	159	160	150	165	290.9
11-Feb	159	162	164	165	215	192	159	171	177	185	176	164	163	148	158	162	176	UO	132	149	200	0	352	52	165.1
12-Feb	UO	185	179	123	149	162	132	169	158	165	168	152	150	153	163	158	169	158	158	170	158	208	218	222	170.9
13-Feb	206	219	230	237	248	262	269	265	198	218	250	231	218	217	218	227	208	194	200	279	301	341	266	224	235.3
14-Feb	168	222	172	168	154	157	166	200	20	9	35	14	54	114	38	53	3	344	354	313	5	15	348	358	25.2
15-Feb	8	27	21	1	6	23	18	22	33	51	49	49	47	39	42	67	51	27	32	19	355	330	312	287	25.2
16-Feb	312	252	271	269	265	280	320	262	330	42	43	20	14	16	14	13	6	10	5	10	13	5	2	5	4.5
17-Feb	16	16	15	18	22	27	21	20	21	19	20	18	14	14	8	6	6	10	7	7	11	9	11	12	13.7
18-Feb	14	13	12	11	10	11	11	10	13	7	9	22	19	18	22	13	3	352	343	293	250	235	250	174	9.9
19-Feb	190	168	164	152	163	192	174	161	163	156	149	145	146	158	155	160	161	163	162	156	172	170	181	179	159.0
20-Feb	165	165	167	166	169	167	171	159	169	164	148	141	136	72	40	16	20	5	5	10	5	355	358	352	50.7
21-Feb	356	340	7	45	168	162	171	289	275	300	331	13	34	41	12	21	23	359	2	21	21	25	11	13	11.8
22-Feb	15	16	15	2	357	355	4	357	357	0	11	357	356	356	352	354	352	343	345	355	345	334	347	346	358.6
23-Feb	347	355	351	183	116	147	142	143	94	173	155	120	106	69	51	27	36	16	274	276	292	289	292	208	97.2
24-Feb	164	140	145	154	148	155	161	323	180	177	147	145	135	138	143	147	160	166	149	196	161	163	UO	342	151.1
25-Feb	351	346	346	290	343	334	137	162	158	139	147	143	143	157	173	151	355	351	358	17	8	10	25	17	33.9
26-Feb	24	21	19	21	16	10	3	3	12	10	7	10	4	14	7	10	1	351	2	4	355	359	2	11	6.2
27-Feb	17	13	21	25	28	16	36	27	43	65	65	60	74	80	79	32	33	4	317	275	282	268	280	271	27.9
28-Feb	276	233	184	103	177	193	169	172	166	142	151	154	152	157	158	156	159	165	164	175	149	169	188	310	161.7
	15.6	15.5	17.9	20.1	10.9	8.9	19.6	15.5	34.6	43.5	50.4	54.0	54.3	69.0	52.6	41.4	24.4	8.2	7.7	7.6	7.1	5.9	359.5	5.3	
	Diurnal Average																								

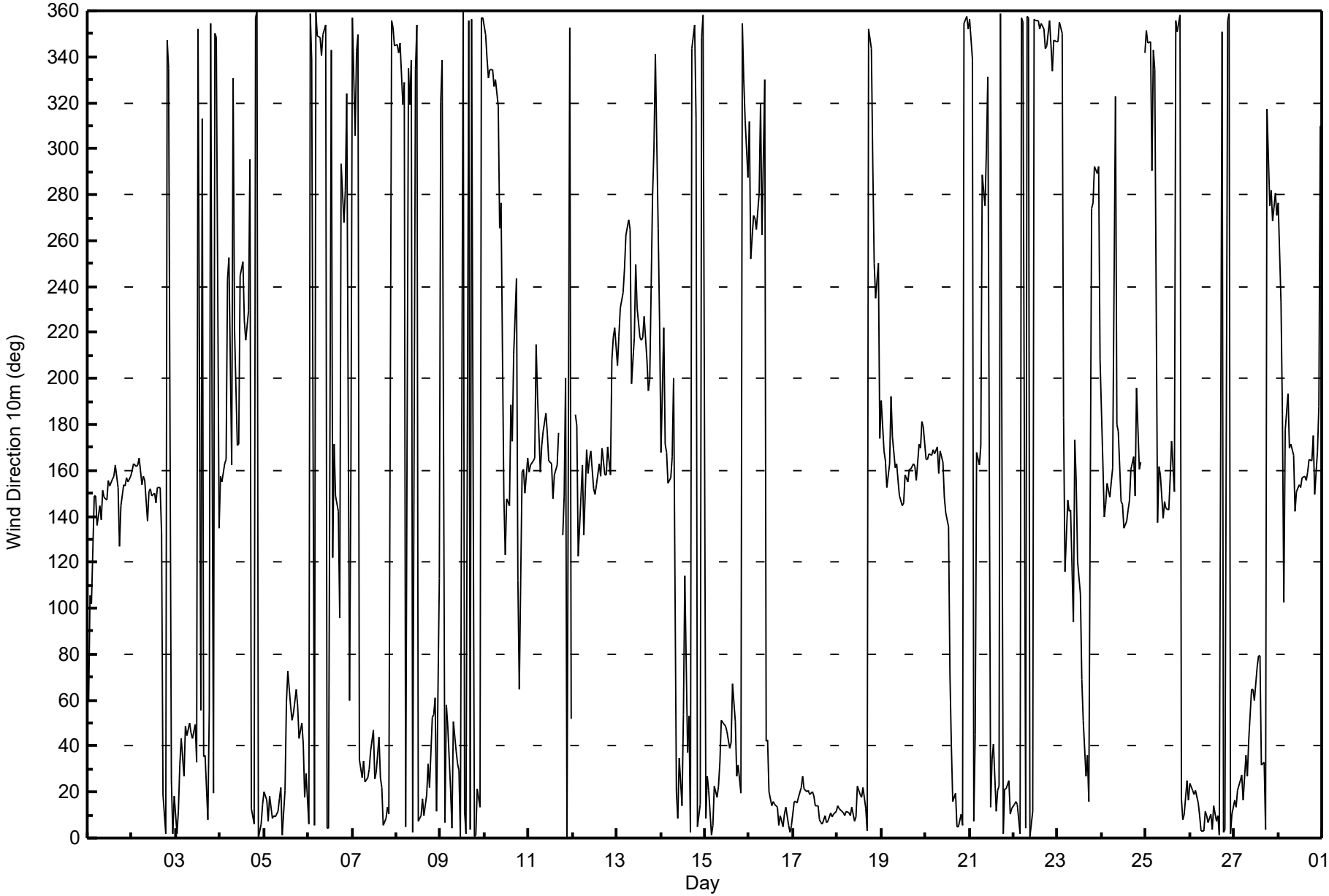
UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Waskow ohci Pimatisiwin - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Waskow ohci Pimatisiwin - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 100 deg on Feb 12 02:00

Minimum Value: 8 deg on Feb 27 21:00

Percentiles: P_1 = 14 P_{10} = 20 Q_1 = 22 Median = 25 Q_3 = 37 P_{90} = 57 P_{99} = 92

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Hours of Calibration:	0
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	48	58	28	43	23	24	22	25	22	22	26	24	22	26	25	25	23	26	25	24	22	22	22	24	58
2-Feb	25	23	25	24	24	22	22	23	26	24	22	26	22	22	32	42	60	58	14	20	22	21	33	25	60
3-Feb	21	23	30	23	31	40	26	23	26	26	26	35	47	93	70	27	33	47	59	40	37	42	83	68	93
4-Feb	30	25	27	22	65	61	69	67	92	37	53	99	43	57	63	35	39	25	22	21	22	22	22	23	99
5-Feb	22	23	24	23	23	22	24	24	26	25	27	29	32	24	23	26	22	24	21	20	22	24	22	23	32
6-Feb	25	22	17	33	21	20	24	25	30	19	26	44	93	63	33	25	39	47	65	53	26	60	71	58	93
7-Feb	56	50	71	26	27	25	26	23	26	24	25	24	26	28	25	24	26	20	22	22	21	22	19	19	71
8-Feb	20	18	24	22	18	28	22	26	60	27	17	17	23	26	32	23	24	28	26	20	21	29	24	36	60
9-Feb	98	60	72	63	32	27	30	30	28	28	25	24	22	23	21	19	20	19	20	21	23	24	18	19	98
10-Feb	18	18	15	16	20	19	22	29	54	56	70	41	38	39	39	32	53	82	38	68	32	48	36	44	82
11-Feb	19	22	25	59	87	44	22	15	21	29	31	40	32	32	30	26	22	UO	91	44	68	27	44	65	91
12-Feb	UO	100	31	44	80	84	32	24	25	24	24	22	24	24	21	23	33	20	27	28	28	44	37	41	100
13-Feb	35	37	41	38	38	40	35	49	76	48	45	49	42	42	43	41	50	64	58	88	22	66	91	86	91
14-Feb	27	68	33	20	14	14	48	71	59	55	28	32	52	67	49	40	23	20	38	30	26	25	22	82	82
15-Feb	25	31	28	22	23	24	23	25	25	26	24	28	31	40	36	24	21	17	15	18	24	30	57	19	57
16-Feb	17	78	26	64	20	18	21	49	32	38	28	28	33	28	24	24	23	21	21	21	22	23	21	24	78
17-Feb	25	25	23	24	22	24	23	24	22	23	24	26	23	25	25	25	24	24	24	24	23	24	25	24	26
18-Feb	25	24	23	25	24	23	24	23	24	23	24	25	25	25	24	25	24	21	20	32	13	47	15	31	47
19-Feb	37	12	50	29	36	34	19	21	24	21	23	22	25	21	22	22	21	18	36	22	20	24	39	32	50
20-Feb	14	18	17	22	22	17	34	26	24	30	33	27	42	43	37	21	21	21	21	21	21	19	21	22	43
21-Feb	20	20	24	26	55	43	51	63	33	41	49	42	43	42	24	24	24	20	22	26	24	24	22	22	63
22-Feb	24	23	21	20	19	19	21	18	19	22	24	25	22	25	23	22	20	20	25	32	23	20	19	21	32
23-Feb	23	21	46	47	56	45	30	50	54	29	35	38	51	29	24	42	22	43	34	33	69	27	40	88	88
24-Feb	23	29	40	76	36	43	35	76	31	20	23	24	26	23	22	21	21	17	47	93	52	56	UO	60	93
25-Feb	46	19	39	62	58	38	60	87	22	29	24	24	26	30	28	40	34	18	20	22	22	22	24	23	87
26-Feb	23	24	24	23	23	26	22	22	21	21	22	24	22	25	24	25	24	21	23	24	21	20	21	24	26
27-Feb	23	24	24	24	23	26	28	21	25	25	25	32	24	27	25	35	42	81	60	16	8	17	18	15	81
28-Feb	27	29	38	60	30	18	60	17	21	24	22	23	24	22	21	22	21	21	21	27	40	30	47	31	60
	98	100	72	76	87	84	69	87	92	56	70	99	93	93	70	42	60	82	91	93	69	66	91	88	
	Diurnal Maximum																								

UO - Unstable Operation

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS27
JACKFISH 2/3
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - JACKFISH 2/3 (AMS27)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	641	31	31	100	19.6	0	3.2	0
H2S (ppb) Average	639	33	33	100	0.9	0	0.3	0
NO2 (ppb) Average	637	35	35	100	27	0	7.2	-
NO (ppb) Average	637	35	35	100	4.8	-	1.2	-
NOX (ppb) Average	637	35	35	100	28.5	-	8.4	-
Temperature 2 m (C) Average	672	0	0	100	8	-	2.7	-
Relative Humidity (%) Average	672	0	0	100	97.3	-	95.4	-
Wind Speed 10 m (km/h) Average	651	0	21	96.88	16	-	13	-
Wind Direction 10 m (deg) Average	651	0	21	96.88	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - JACKFISH 2/3 (AMS27)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	641	0.73	1.5	-	0	0	0.1	0.3	0.7	1.7	19.6
H2S (ppb) Average	639	0.15	0.1	-	0	0	0.1	0.1	0.2	0.3	0.9
NO2 (ppb) Average	637	2.38	2.4	-	0	0.6	1.1	1.8	2.9	4.7	27
NO (ppb) Average	637	0.42	0.6	-	0	0	0	0.3	0.5	1	4.8
NOX (ppb) Average	637	2.8	2.7	-	0	0.8	1.3	2.1	3.3	5.5	28.5
Temperature 2 m (C) Average	672	-11.08	10	-	-33.8	-25.7	-19.7	-8.9	-3.2	0.8	8
Relative Humidity (%) Average	672	76.89	13.8	-	29.8	58	70.3	77.7	88.5	93.9	97.3
Wind Speed 10 m (km/h) Average	651	7.3	3	-	1	3	5	7	10	12	16
Wind Direction 10 m (deg) Average	651	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - JACKFISH 2/3 (AMS27)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
Wind Speed, Wind Direction	07 Feb 2026 10:00	07 Feb 2026 10:00	1	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	09 Feb 2026 16:00	10 Feb 2026 11:00	20	Unstable Operation - flatline in sensor output signal

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Jackfish 2/3 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 19.6 ppb on Feb 8 17:00 Maximum Daily Average: 3.2 ppb on Feb 8

Minimum Value: 0.0 ppb on Feb 4 15:00 Minimum Daily Average: 0.1 ppb on Feb 13

Maximum Diurnal Average: 1.3 ppb at hour 15 Minimum Diurnal Average: 0.4 ppb at hour 22

Monthly Average: 0.73 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.3 Q_3 = 0.7 P_{90} = 1.7 P_{99} = 7.5

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.9	2.0	2.3	1.2	1.2	1.3	1.2	1.2	1.0	0.9	1.0	0.8	0.6	0.6	0.5	0.3	0.2	0.3	0.3	0.3	0.2	0.4	0.4	0.8	2.3
2-Feb	0.2	Z	0.2	0.3	0.3	0.3	0.3	0.6	0.5	0.3	0.3	0.3	0.3	0.5	0.5	0.4	0.3	0.4	0.3	0.5	1.5	0.4	0.7	0.8	0.4	1.5
3-Feb	2.0	0.4	Z	0.3	0.2	0.4	0.6	1.1	0.5	0.3	0.5	0.4	0.3	0.1	0.1	0.2	0.4	0.3	0.2	0.4	0.3	0.2	0.4	0.3	0.4	2.0
4-Feb	0.2	0.5	0.2	Z	0.0	0.1	0.1	0.1	0.3	0.3	0.1	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5
5-Feb	0.1	0.1	0.1	0.0	Z	0.0	7.4	10.7	0.1	0.1	0.4	0.4	0.4	0.5	0.4	0.7	0.9	1.0	0.9	0.9	0.8	0.5	0.5	0.5	1.2	10.7
6-Feb	0.7	0.3	0.2	0.0	0.1	Z	0.1	0.0	0.0	0.0	0.0	0.2	0.5	0.4	0.3	0.3	0.2	0.3	0.6	0.5	0.9	0.3	0.1	0.1	0.3	0.9
7-Feb	Z	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.2	0.1	0.0	0.5	1.6	3.3	3.1	1.8	1.0	0.8	0.6	0.4	0.2	0.2	0.2	0.2	0.7	3.3
8-Feb	0.2	Z	0.4	0.7	0.4	0.2	0.2	0.1	0.2	0.3	0.4	2.7	7.5	8.9	12.8	10.9	19.6	4.4	0.6	0.4	0.4	0.6	0.6	0.4	3.2	19.6
9-Feb	0.4	0.6	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.6	2.7	1.7	1.3	3.7	1.9	0.8	0.5	0.4	0.4	0.5	0.4	0.4	0.8	3.7
10-Feb	0.3	0.6	0.2	Z	0.0	0.0	0.2	0.1	0.2	0.6	0.8	0.9	0.6	0.5	0.3	0.3	0.4	0.6	0.5	0.7	0.6	0.7	0.7	0.8	0.5	0.9
11-Feb	0.7	0.5	0.3	0.3	Z	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.2	0.3	0.1	0.1	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.7
12-Feb	0.3	0.9	0.8	0.4	0.3	Z	0.2	0.0	0.2	0.1	0.3	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.4	0.5	0.5	0.7	0.3	0.9
13-Feb	Z	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.2	0.2	0.1	0.5
14-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.1	0.2	0.1	0.1	0.1	0.2	3.7
15-Feb	0.0	0.2	Z	0.1	2.1	0.8	0.6	0.3	0.9	0.2	0.1	0.0	0.1	0.2	0.7	0.6	0.4	0.3	1.9	1.1	1.2	2.1	6.4	3.2	1.0	6.4
16-Feb	2.5	1.6	1.0	Z	0.4	0.2	0.2	0.1	0.1	0.5	1.0	0.8	0.6	0.5	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.5	2.5
17-Feb	0.0	0.2	1.5	1.0	Z	0.5	1.5	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.2	1.5
18-Feb	0.2	0.3	0.2	0.2	0.3	Z	0.1	0.1	0.2	0.8	0.4	0.3	0.5	0.2	0.1	0.1	0.0	0.1	0.1	0.2	0.3	0.2	0.3	0.7	0.3	0.8
19-Feb	Z	0.9	0.4	0.2	0.1	0.0	0.3	0.6	0.8	0.7	0.2	0.4	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.7	1.1	0.4	1.1
20-Feb	1.4	Z	0.7	0.5	0.5	0.4	0.5	0.5	0.3	0.6	1.9	3.3	2.3	2.9	4.1	4.6	3.3	2.4	2.8	2.6	1.7	1.0	0.8	0.8	1.7	4.6
21-Feb	0.6	0.9	Z	2.5	1.5	2.5	0.4	0.4	0.8	1.7	3.2	2.4	1.1	1.8	1.8	1.2	0.7	0.3	0.3	0.2	0.1	0.0	0.1	0.0	1.1	3.2
22-Feb	0.4	0.2	0.1	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.4
23-Feb	0.0	0.0	0.1	0.2	Z	0.1	0.1	0.0	0.1	0.0	2.1	6.5	0.1	0.0	0.1	1.0	0.6	0.7	0.3	0.6	2.4	1.3	0.2	0.1	0.7	6.5
24-Feb	0.2	0.1	0.1	0.3	0.3	Z	0.1	0.3	0.4	0.5	0.5	0.4	0.5	0.6	0.5	0.3	0.4	0.2	0.3	0.2	0.2	0.2	0.4	0.6	0.3	0.6
25-Feb	Z	0.1	0.3	0.5	0.5	0.4	0.4	4.3	6.6	6.5	1.9	0.3	0.4	0.4	0.6	0.5	0.4	0.3	0.4	0.4	0.4	0.3	0.1	0.1	1.1	6.6
26-Feb	0.3	Z	0.2	0.1	0.1	0.0	0.0	0.1	0.2	0.5	0.2	0.1	0.1	7.6	8.0	1.0	2.1	5.9	1.5	1.0	2.0	1.4	1.7	2.2	1.6	8.0
27-Feb	2.4	1.5	Z	1.7	1.5	2.3	1.9	1.7	2.1	2.6	1.9	1.4	1.3	0.9	0.9	0.7	1.0	0.8	0.6	0.4	0.5	0.4	0.5	7.1	1.6	7.1
28-Feb	3.3	2.6	1.3	Z	1.4	0.9	1.1	0.9	0.6	0.8	0.6	0.4	0.4	0.3	0.6	0.6	0.3	0.2	0.3	0.6	0.4	0.5	0.7	0.5	0.8	3.3
	0.7	0.6	0.5	0.5	0.5	0.5	0.6	0.8	0.6	0.7	0.7	0.9	0.9	1.2	1.3	1.1	1.2	0.9	0.5	0.5	0.6	0.4	0.6	0.8	Diurnal Average	
	3.3	2.6	2.0	2.5	2.1	2.5	7.4	10.7	6.6	6.5	3.2	6.5	7.5	8.9	12.8	10.9	19.6	5.9	2.8	2.6	2.4	2.1	6.4	7.1	Diurnal Maximum	

Z - zerospan C - Calibration

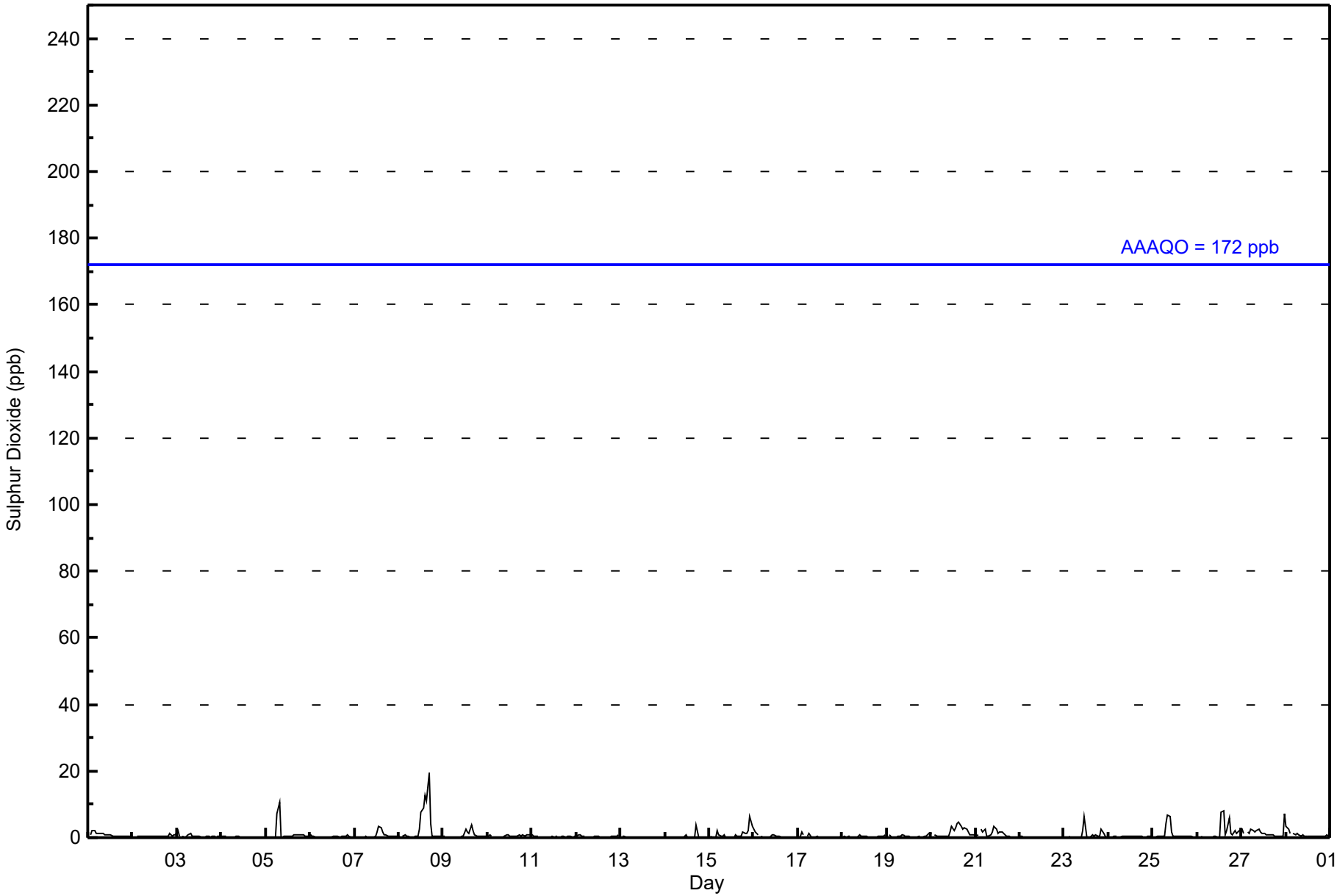
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Jackfish 2/3 - February 2026



Sulphur Dioxide (SO_2) - ppb
Jackfish 2/3 - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	637	99.38	99.38
11 - 20	4	0.62	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Jackfish 2/3 - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	18	34	65	40	6	20	16	15	29	69	87	88	54	16	19	41	617
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	18	34	65	40	6	20	16	15	29	69	87	88	54	20	19	41	621

Total Number of Valid Hours: 621

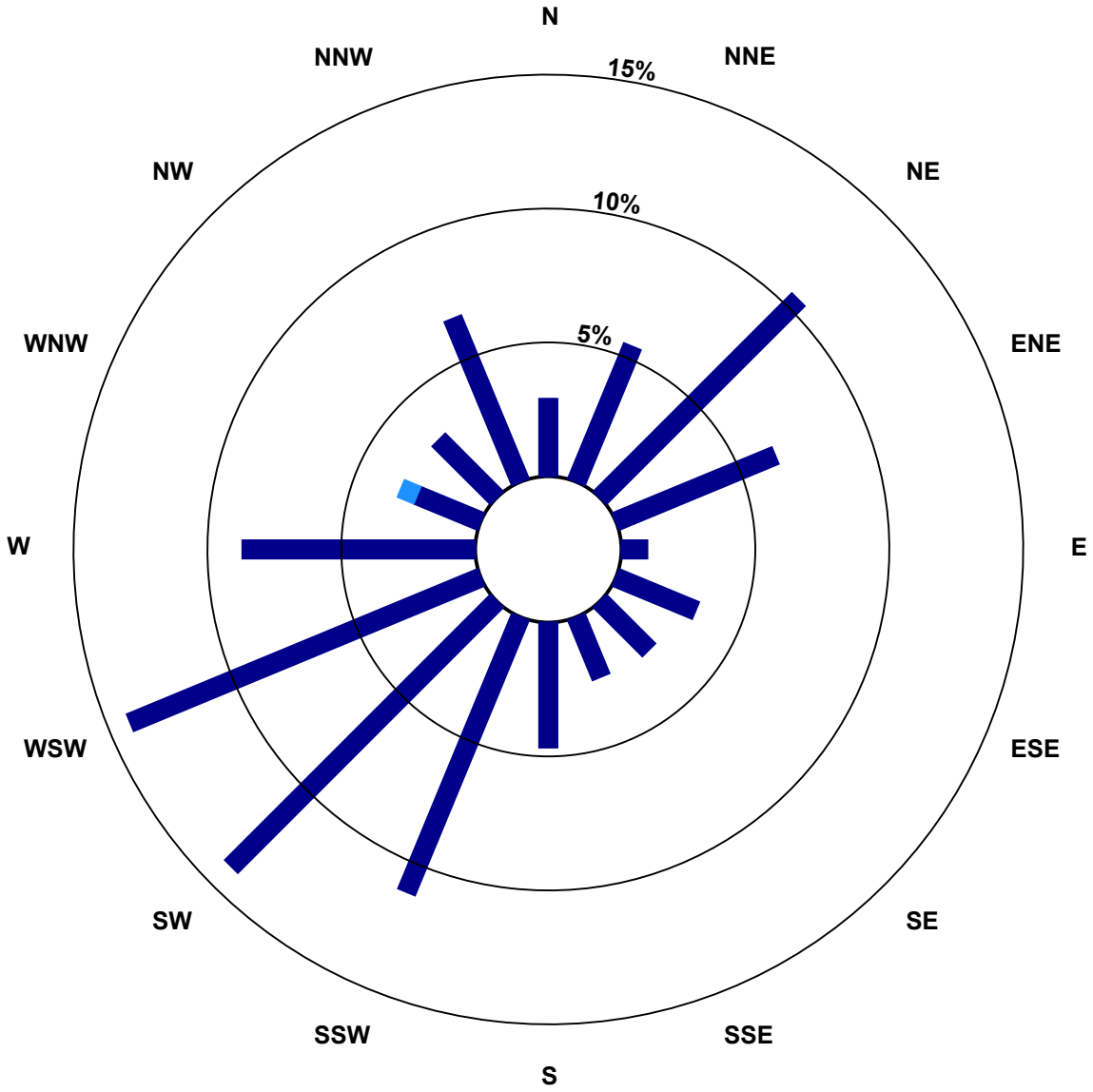
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Jackfish 2/3



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

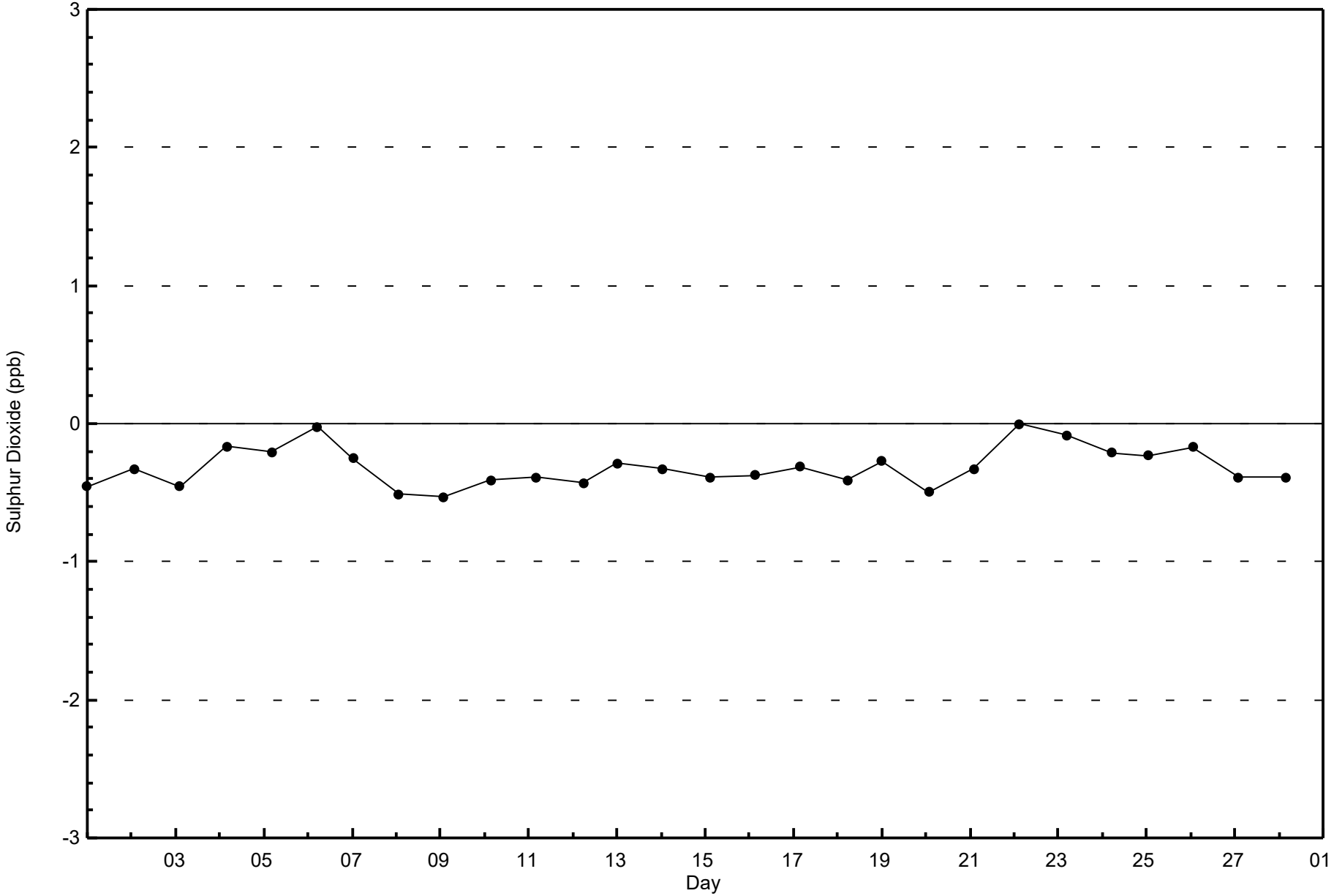
Total Number of Valid Hours: 621

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Jackfish 2/3 - February 2026

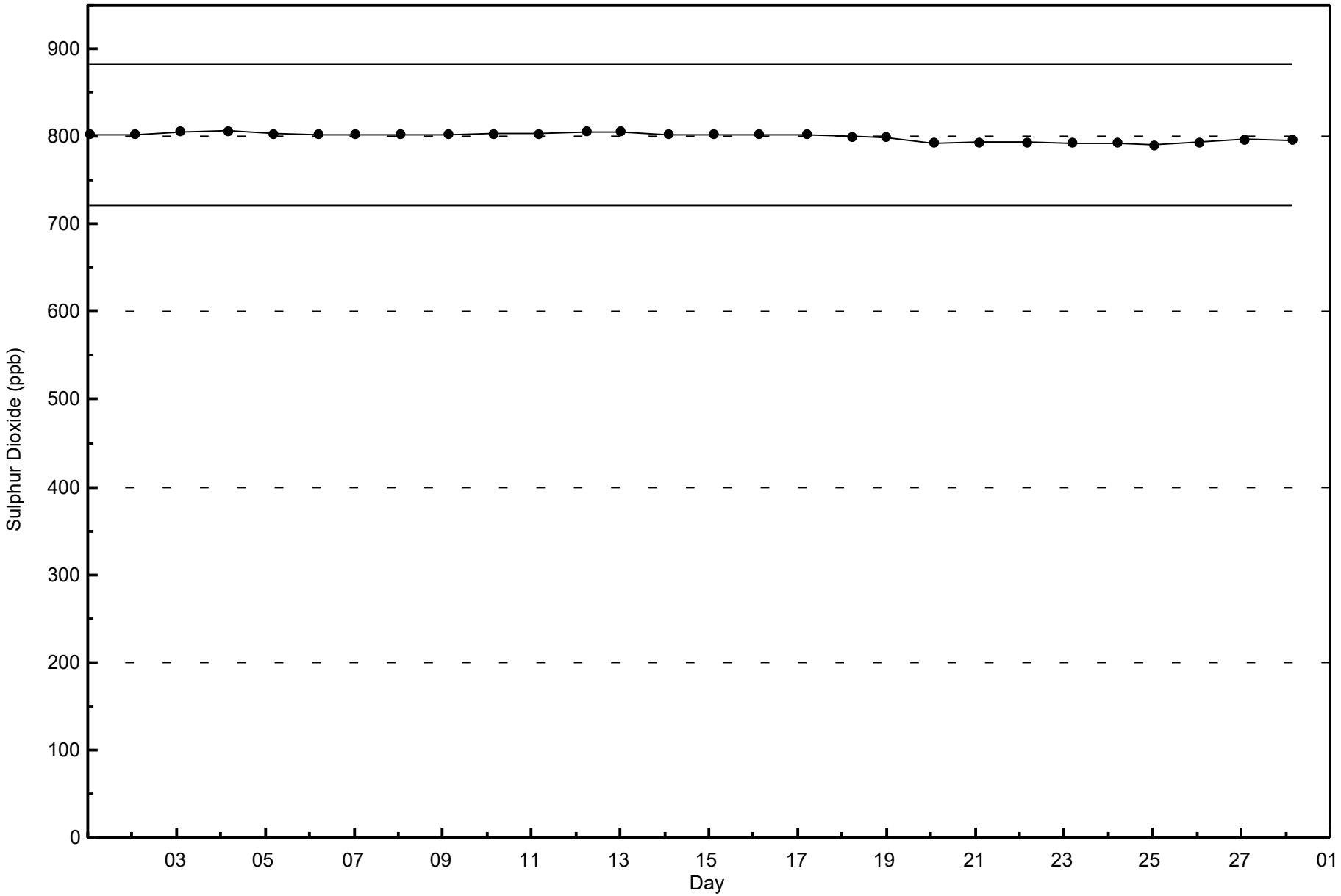


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Jackfish 2/3 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H2S) - ppb

Jackfish 2/3 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 0.9 ppb on Feb 18 23:00 Maximum Daily Average: 0.3 ppb on Feb 7

Minimum Value: 0.0 ppb on Feb 5 02:00 Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 0.2 ppb at hour 4 Minimum Diurnal Average: 0.1 ppb at hour 12

Monthly Average: 0.15 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.1 Q_3 = 0.2 P_{90} = 0.3 P_{99} = 0.5

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	Z	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.5
2-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.1	0.2	0.1	0.2	0.1	0.1	0.4
3-Feb	0.2	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
4-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1
5-Feb	0.0	0.0	0.2	0.2	0.0	Z	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.1	0.3
6-Feb	Z	0.2	0.5	0.3	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5
7-Feb	0.2	Z	0.1	0.5	0.4	0.3	0.3	0.3	0.4	0.3	0.1	0.1	0.2	0.4	0.6	0.5	0.4	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.3	0.6
8-Feb	0.2	0.2	Z	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
9-Feb	0.1	0.1	0.2	Z	0.2	0.2	0.3	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
10-Feb	0.2	0.3	0.2	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	C	C	C	C	C	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
11-Feb	0.3	0.1	0.3	0.4	0.5	Z	0.4	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.2	0.4	0.2	0.5
12-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2
13-Feb	0.1	Z	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.5	0.4	0.3	0.2	0.3	0.2	0.5
14-Feb	0.1	0.2	Z	0.2	0.1	0.2	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.3
15-Feb	0.4	0.1	0.1	Z	0.3	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.3	0.3	0.3	0.2	0.4
16-Feb	0.3	0.3	0.3	0.2	Z	0.2	0.2	0.2	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.3
17-Feb	0.0	0.0	0.1	0.1	0.1	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.9	0.3	0.1	0.9
19-Feb	0.6	Z	0.2	0.3	0.3	0.1	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.1	0.2	0.1	0.1	0.1	0.2	0.6
20-Feb	0.1	0.1	Z	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.5	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.5
21-Feb	0.1	0.1	0.1	Z	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
22-Feb	0.1	0.2	0.2	0.2	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
23-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2
24-Feb	Z	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
25-Feb	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.3	0.2	0.4	0.3	0.2	0.2	0.1	0.4
26-Feb	0.2	0.3	Z	0.2	0.2	0.1	0.1	0.1	0.3	0.2	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3
27-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.4	0.1	0.4
28-Feb	0.4	0.4	0.4	0.3	Z	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	Diurnal Average	
	0.6	0.4	0.5	0.5	0.5	0.3	0.5	0.5	0.4	0.3	0.5	0.3	0.3	0.4	0.6	0.5	0.4	0.3	0.5	0.5	0.4	0.3	0.9	0.4	Diurnal Maximum	

Z - zerospan C - Calibration

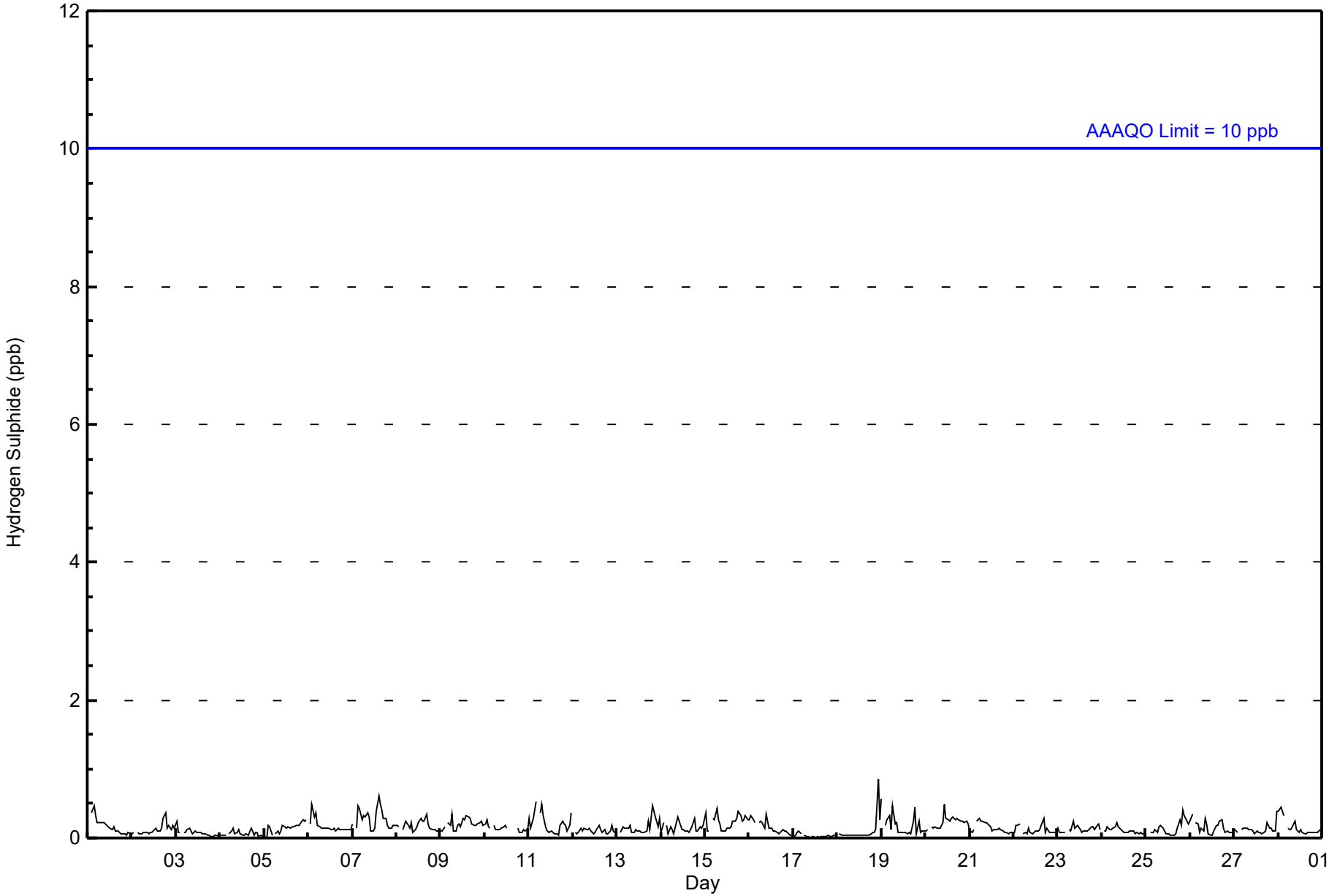
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H2S) - ppb

Jackfish 2/3 - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	639	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H2S) - ppb

Jackfish 2/3 - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	18	33	68	37	6	22	15	15	28	67	84	89	57	20	19	41	619
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	18	33	68	37	6	22	15	15	28	67	84	89	57	20	19	41	619

Total Number of Valid Hours: 619

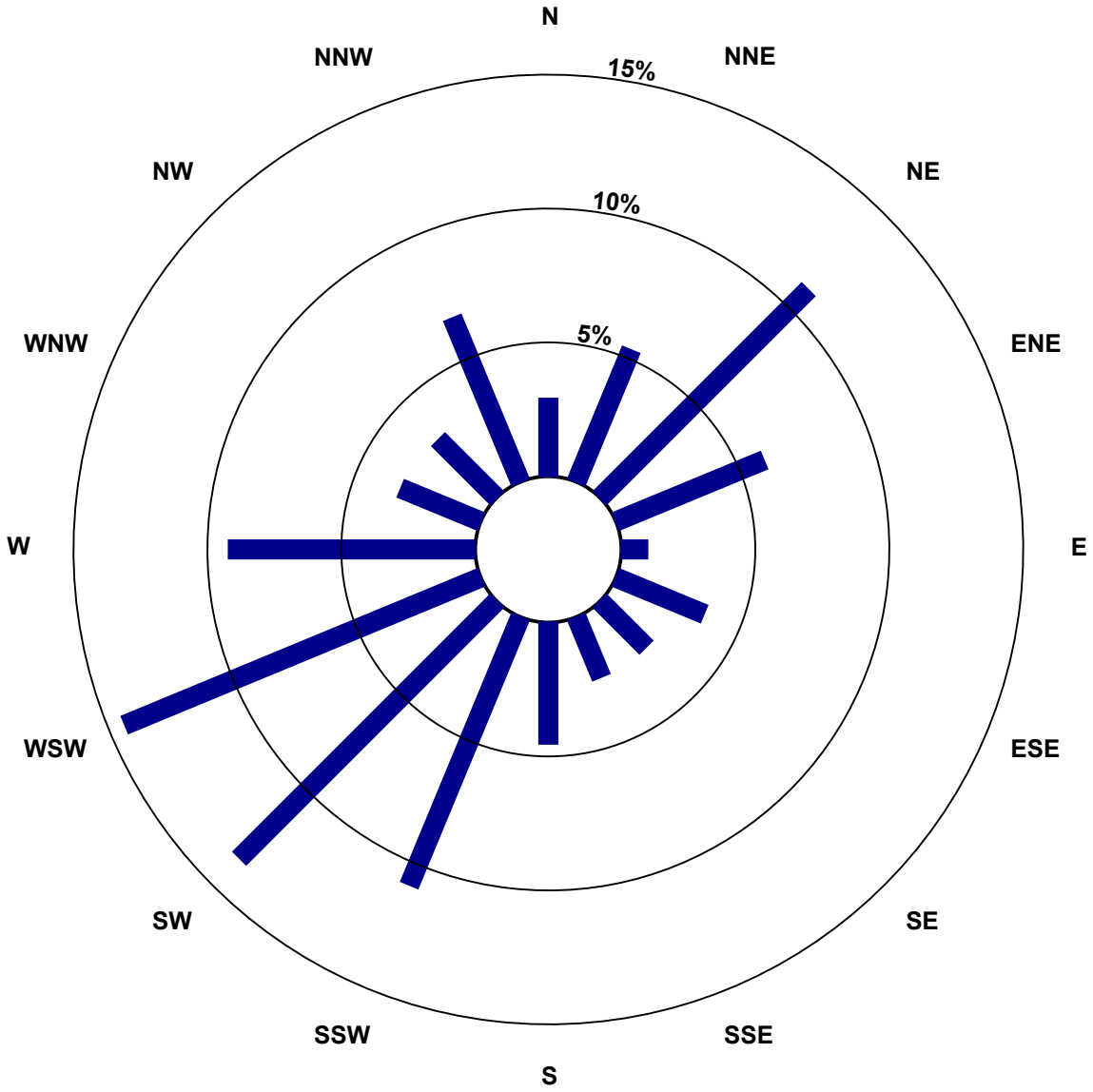
Total Number of Hours: 672

Wood Buffalo Environmental Association

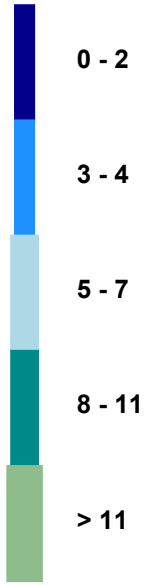
Wind Rose Feb 2026

Hydrogen Sulphide (H2S) - ppb

Jackfish 2/3



Classes (ppb)



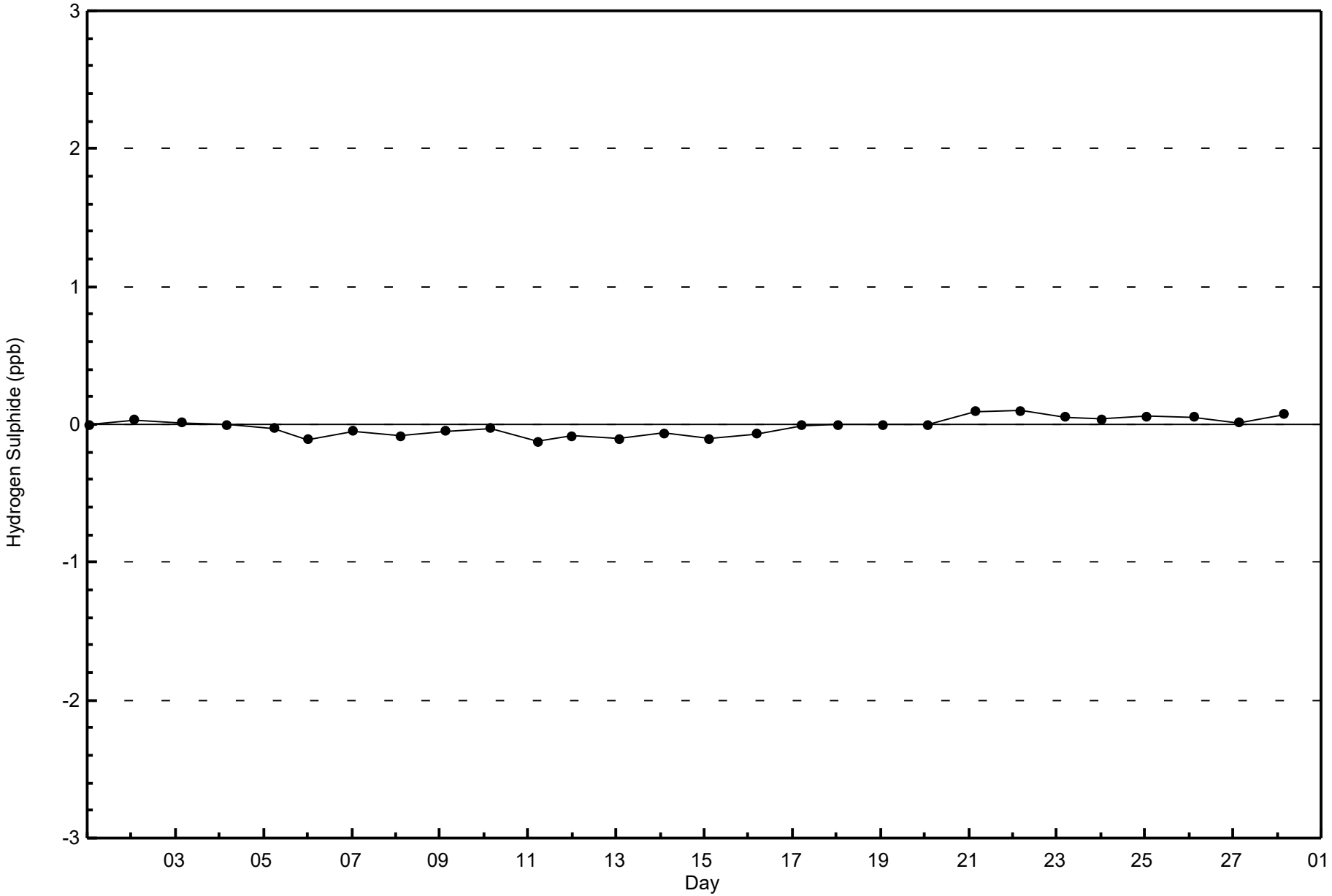
Total Number of Valid Hours: 619

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H2S) - ppb

Jackfish 2/3 - February 2026

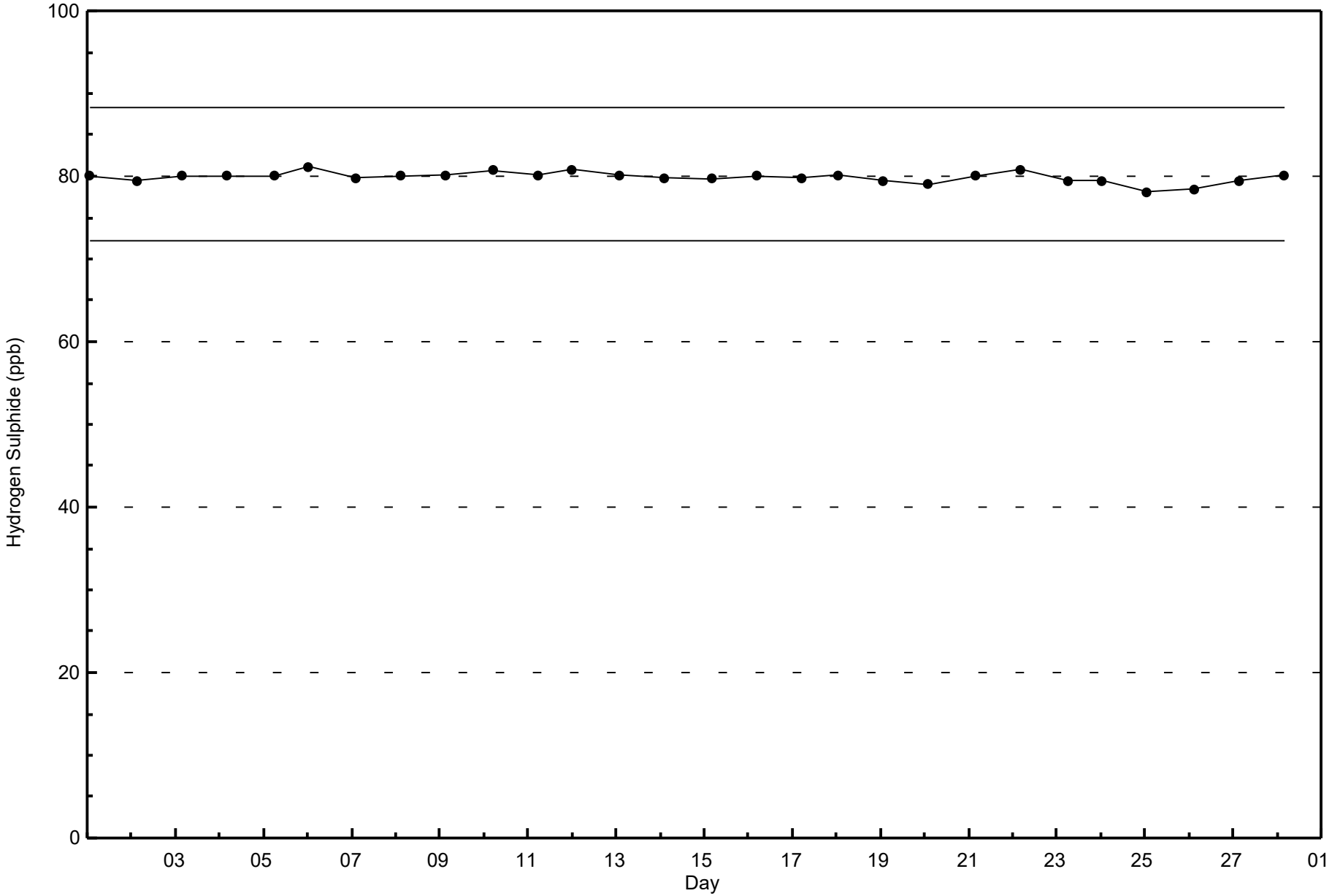


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H2S) - ppb

Jackfish 2/3 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Jackfish 2/3 - February 2026

Maximum Value: 4.8 ppb on Feb 21 11:00

Maximum Daily Average: 1.2 ppb on Feb 20

Minimum Value: 0.0 ppb on Feb 1 01:00

Minimum Daily Average: 0.1 ppb on Feb 17

Maximum Diurnal Average: 0.9 ppb at hour 11

Minimum Diurnal Average: 0.1 ppb at hour 22

Monthly Average: 0.42 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.3 Q_3 = 0.5 P_{90} = 1.0 P_{99} = 3.3

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	35
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.1	0.5	0.5	0.6	0.4	0.2	0.2	0.0	0.1	0.0	0.1	0.2	0.0	0.1	0.1	0.1	0.6
2-Feb	0.0	0.0	0.1	0.0	0.3	Z	0.6	0.0	0.1	0.1	0.2	0.5	0.6	0.5	0.4	0.4	0.2	0.1	0.6	0.1	0.2	0.2	0.2	0.0	0.2	0.6
3-Feb	Z	0.4	0.1	0.1	0.1	0.2	0.2	0.4	0.4	0.1	0.0	0.5	0.7	0.4	0.3	0.5	0.2	0.3	0.1	0.4	0.0	0.1	0.0	0.2	0.3	0.7
4-Feb	0.1	Z	0.4	0.3	0.3	0.0	0.3	0.3	0.7	0.9	0.7	0.8	0.5	0.5	0.6	0.3	0.3	0.3	0.3	0.1	0.3	0.1	0.4	0.4	0.4	0.9
5-Feb	0.2	0.4	Z	0.7	0.2	0.6	0.7	1.1	0.1	0.1	0.6	0.8	0.7	0.7	0.6	0.4	0.5	0.4	0.2	0.3	0.5	0.3	0.4	0.4	0.5	1.1
6-Feb	0.3	0.2	0.3	Z	0.5	0.3	0.0	0.4	0.4	0.4	0.2	0.6	1.0	0.6	0.5	0.5	0.3	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.3	1.0
7-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.2	0.4	0.6	0.5	0.9	1.5	3.5	3.2	1.7	0.3	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.6	3.5
8-Feb	0.1	0.1	0.1	0.0	0.1	Z	0.4	0.4	0.6	0.6	1.0	1.3	1.6	1.9	2.4	1.6	2.3	0.5	0.1	0.3	0.2	0.2	0.3	0.4	0.7	2.4
9-Feb	Z	0.6	0.4	0.1	0.3	0.3	0.3	1.4	0.6	1.5	1.1	0.8	C	C	C	C	C	C	C	0.0	0.0	0.0	0.0	0.0	--	1.5
10-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.8	1.9	2.4	1.4	0.7	0.9	0.5	0.1	0.9	0.1	0.1	0.3	0.1	0.4	0.1	0.5	2.4
11-Feb	0.4	0.5	Z	0.6	0.6	0.3	0.0	0.4	1.7	0.7	0.3	0.2	0.3	0.4	0.2	0.2	0.2	0.3	0.1	0.3	0.0	0.3	0.0	0.3	0.4	1.7
12-Feb	0.2	0.0	0.2	Z	0.4	0.3	0.1	0.2	0.1	0.2	0.2	0.4	0.3	0.5	0.1	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5
13-Feb	0.0	0.2	0.1	0.1	Z	0.2	0.0	0.0	0.3	0.3	0.3	0.1	0.2	0.3	0.5	0.1	0.2	0.2	0.0	0.1	1.5	0.1	0.1	0.3	0.2	1.5
14-Feb	0.0	0.1	0.0	0.0	0.1	Z	0.4	0.3	0.2	0.5	0.5	0.7	0.3	0.1	0.3	0.3	0.2	0.1	1.1	0.2	0.0	0.1	0.0	0.0	0.2	1.1
15-Feb	Z	0.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.2
16-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	1.7	1.4	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	2.0
17-Feb	0.0	0.1	Z	0.3	0.5	0.0	0.2	0.0	0.0	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5
18-Feb	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.2	0.4	0.2	0.3	0.4	0.5	0.5	0.3	0.4	0.3	0.2	0.3	0.2	0.4	0.8	2.4	0.3	2.4
19-Feb	1.0	3.6	2.2	0.9	Z	0.6	0.9	1.5	1.0	1.5	1.1	0.7	0.7	0.3	0.1	0.4	0.2	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.8	3.6
20-Feb	0.0	0.2	0.0	0.0	0.0	Z	1.5	0.7	1.2	2.7	3.8	3.8	2.8	2.1	2.3	2.3	1.6	0.7	0.2	0.3	0.3	0.1	0.3	0.4	1.2	3.8
21-Feb	Z	0.4	0.4	0.4	0.5	0.7	0.5	0.5	1.4	3.0	4.8	3.4	1.5	1.8	1.3	0.9	0.7	0.3	0.3	0.5	0.3	0.3	0.2	0.1	1.0	4.8
22-Feb	0.6	Z	0.4	0.4	0.5	0.3	0.5	0.3	0.6	0.5	0.3	0.4	0.4	0.6	0.2	0.3	0.4	0.2	0.1	0.0	0.1	0.1	0.2	0.0	0.3	0.6
23-Feb	0.0	0.2	Z	0.2	0.3	0.2	1.2	0.3	0.8	0.6	1.1	1.2	0.3	0.2	0.3	0.4	0.5	0.5	0.2	0.2	0.2	0.0	0.5	0.4	0.4	1.2
24-Feb	0.3	0.5	0.2	Z	0.7	0.4	0.5	0.4	0.9	1.0	1.2	1.4	0.9	0.9	0.5	0.4	0.3	0.2	0.2	0.2	0.1	0.5	0.4	0.1	0.5	1.4
25-Feb	0.0	0.0	0.0	0.3	Z	0.8	0.5	0.2	0.7	1.0	0.7	0.5	0.5	0.5	0.4	0.3	0.6	0.5	0.1	0.5	1.9	0.3	0.3	0.3	0.5	1.9
26-Feb	0.5	0.7	0.6	0.5	0.5	Z	0.8	0.3	1.7	1.1	0.7	0.5	0.1	0.9	1.5	0.9	0.9	0.9	0.0	0.2	0.1	0.2	0.1	0.1	0.6	1.7
27-Feb	Z	0.3	0.1	0.2	0.0	0.2	0.2	0.2	0.6	1.0	0.8	0.8	0.5	0.2	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.4	3.6
28-Feb	1.5	Z	0.2	0.0	0.0	0.1	0.1	0.5	1.7	1.4	0.8	0.5	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.4	1.7
	0.2	0.4	0.3	0.2	0.3	0.2	0.4	0.4	0.6	0.8	0.9	0.9	0.7	0.7	0.7	0.5	0.4	0.3	0.2	0.2	0.2	0.1	0.2	0.3	Diurnal Average	
	1.5	3.6	2.2	0.9	0.7	0.8	1.5	1.5	1.7	3.0	4.8	3.8	2.8	3.5	3.2	2.3	2.3	0.9	1.1	0.5	1.9	0.5	0.8	3.6	Diurnal Maximum	

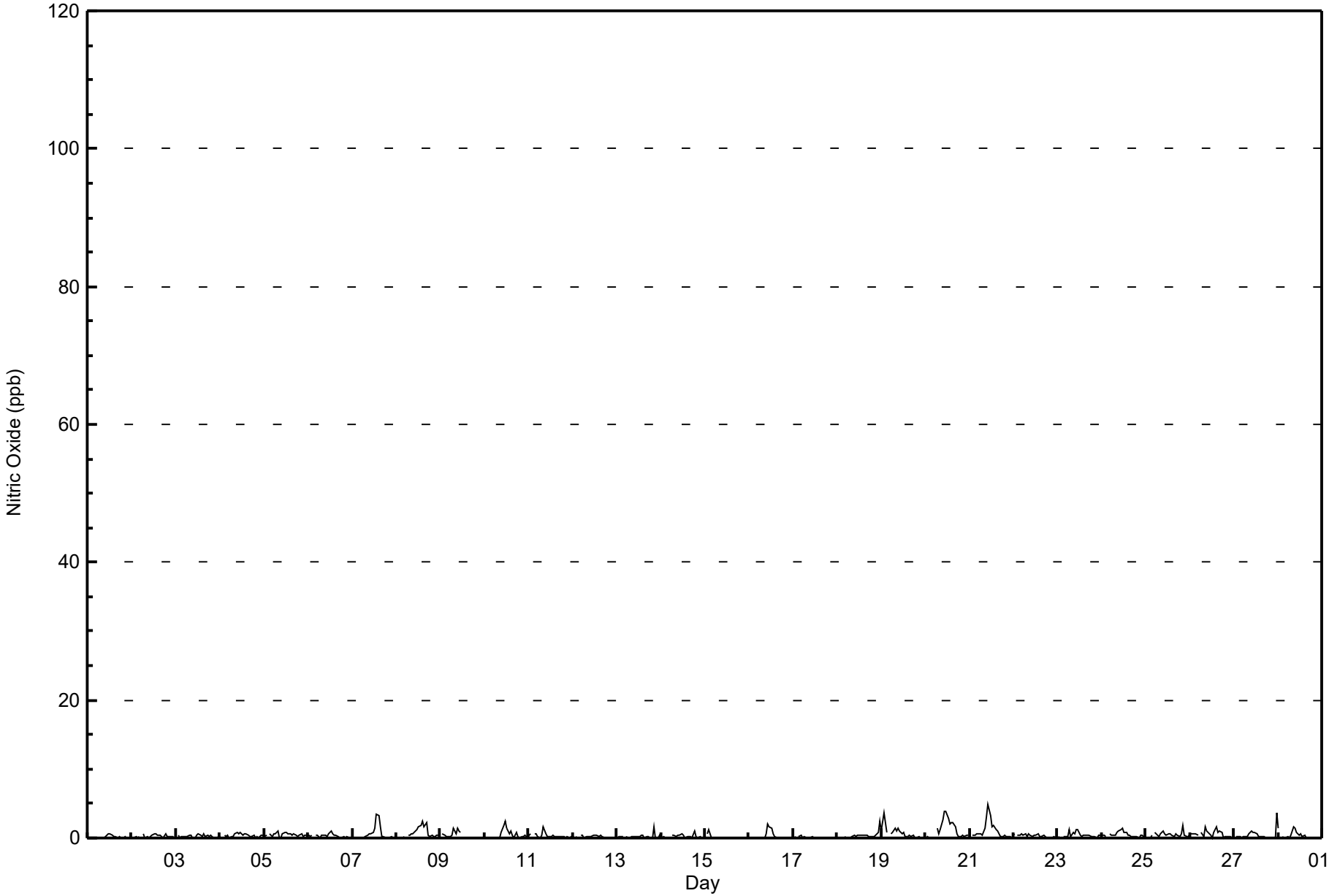
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Jackfish 2/3 - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	637	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Jackfish 2/3 - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	19	32	67	38	5	20	16	15	29	68	86	91	57	20	17	41	621
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	19	32	67	38	5	20	16	15	29	68	86	91	57	20	17	41	621

Total Number of Valid Hours: 621

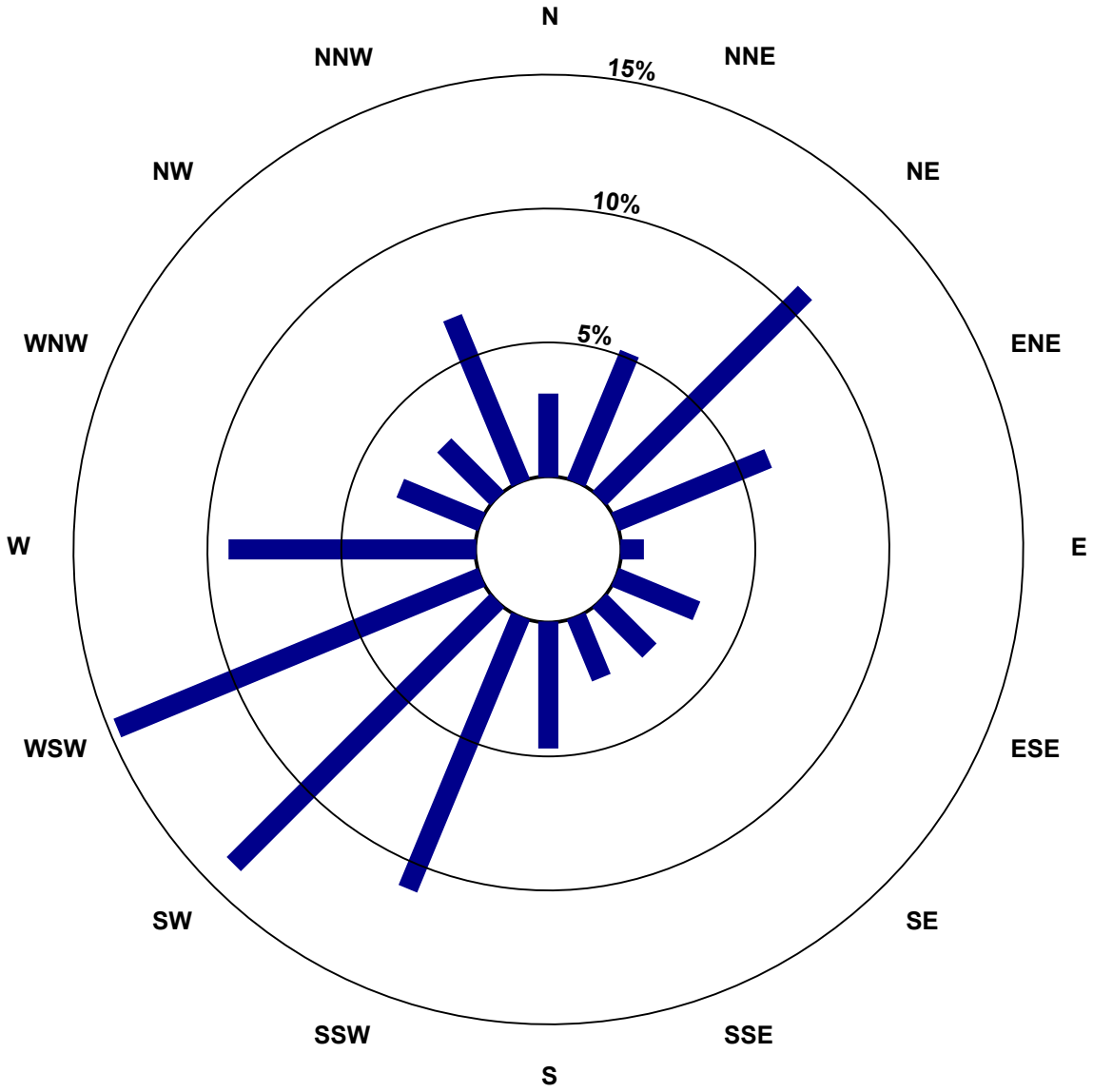
Total Number of Hours: 672

Wood Buffalo Environmental Association

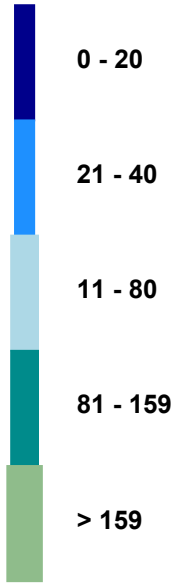
Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Jackfish 2/3



Classes (ppb)



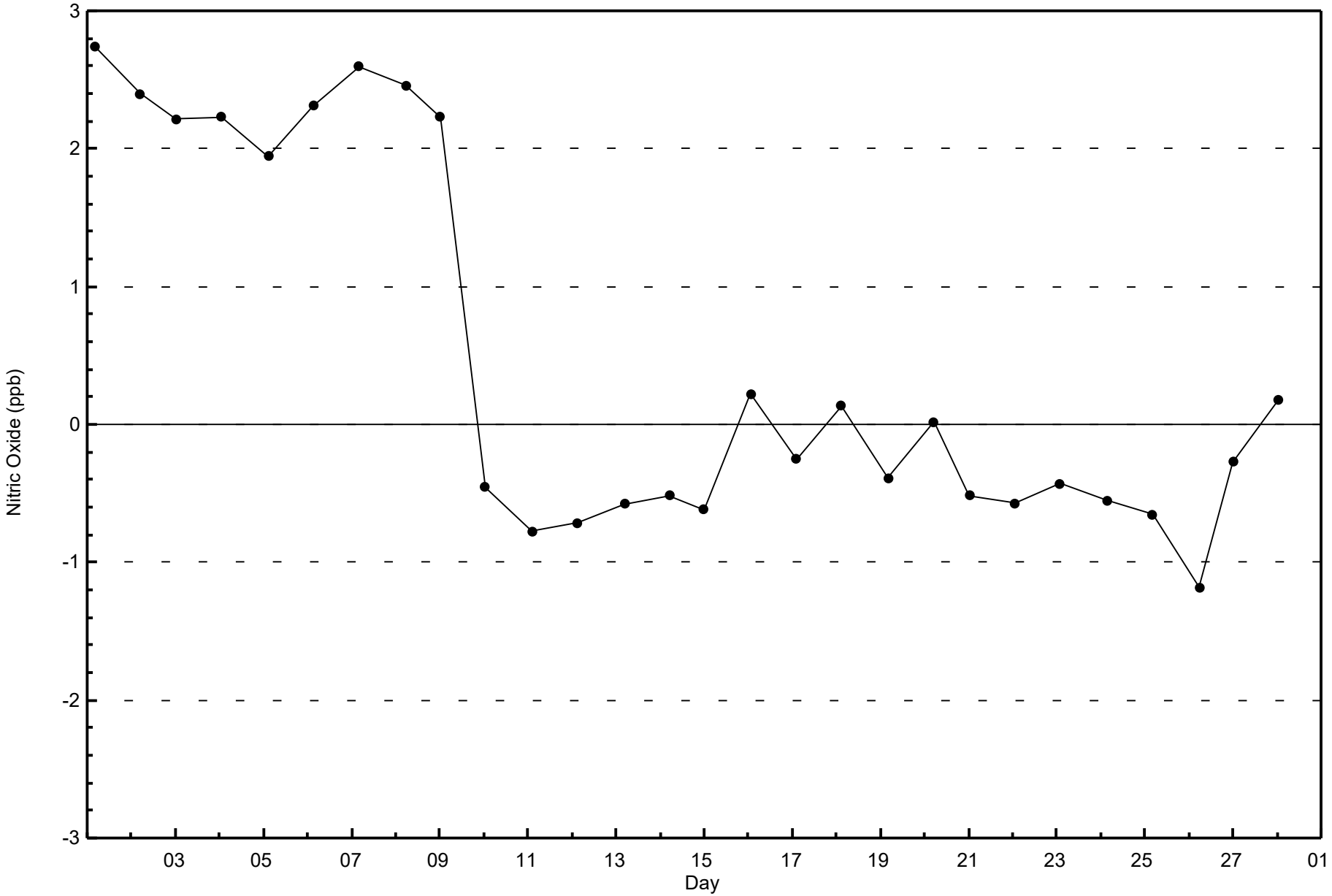
Total Number of Valid Hours: 621

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Jackfish 2/3 - February 2026

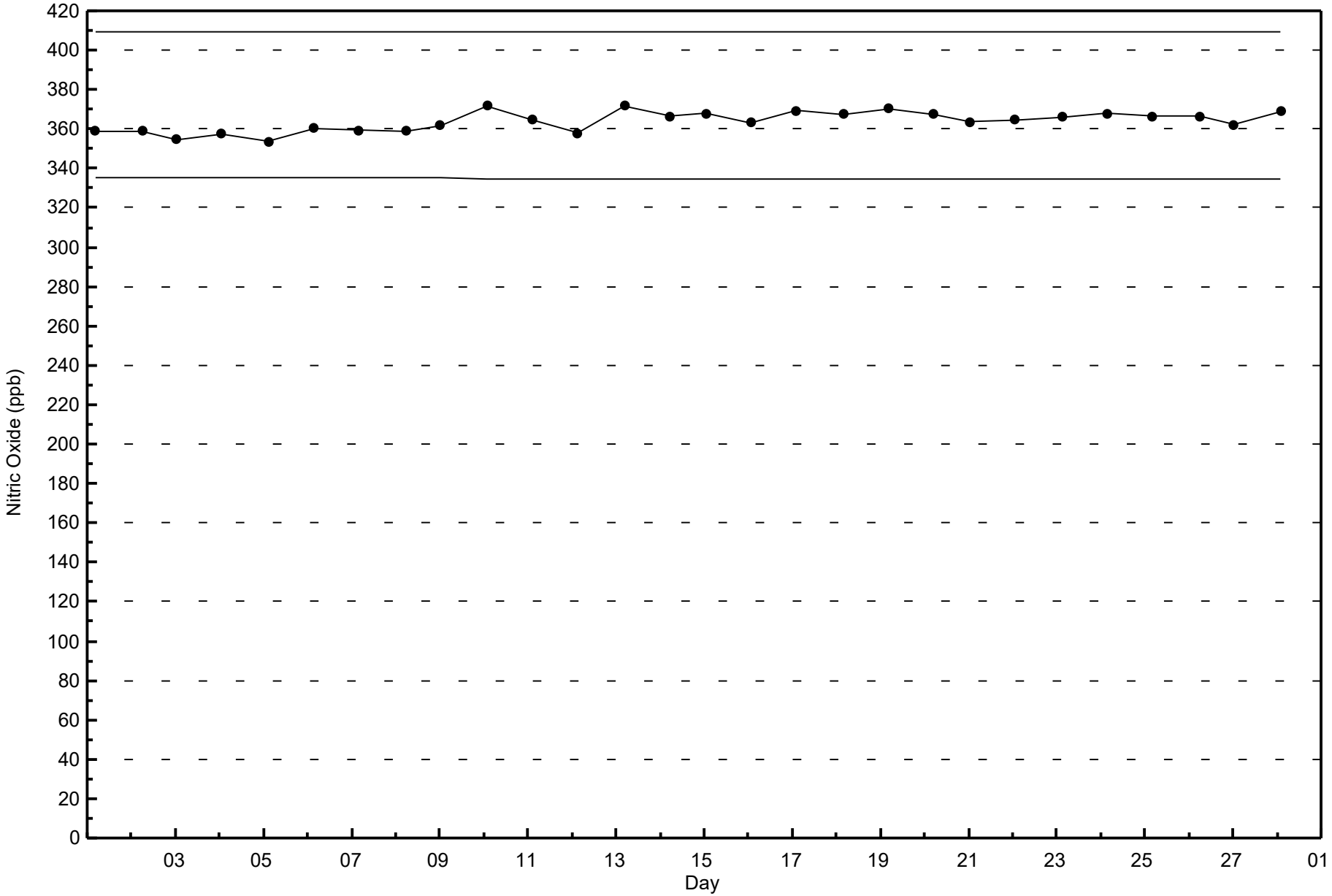


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Jackfish 2/3 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Jackfish 2/3 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 27.0 ppb on Feb 28 01:00 Maximum Daily Average: 7.2 ppb on Feb 20

Minimum Value: 0.0 ppb on Feb 17 20:00 Minimum Daily Average: 0.4 ppb on Feb 22
Maximum Diurnal Average: 3.4 ppb at hour 1 Minimum Diurnal Average: 1.6 ppb at hour 13
Monthly Average: 2.38 ppb Percentiles: P_1 = 0.1 P_{10} = 0.6 Q_1 = 1.1 Median = 1.8 Q_3 = 2.9 P_{90} = 4.7 P_{99} = 11.6

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	35
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.6	4.8	3.9	4.0	Z	2.6	2.7	2.6	2.5	2.2	2.8	3.3	2.4	2.0	2.0	1.9	2.5	1.9	1.4	2.5	1.0	0.5	0.9	1.2	2.3	4.8
2-Feb	1.0	1.2	1.5	1.4	1.3	Z	1.9	2.6	2.8	1.3	1.6	1.8	1.9	1.9	1.9	1.7	1.7	2.2	2.9	3.9	2.7	2.0	2.2	2.0	2.0	3.9
3-Feb	Z	1.8	1.1	1.2	1.1	1.3	1.7	2.3	1.3	0.8	1.5	1.2	1.5	0.9	0.7	0.7	1.3	1.2	0.5	1.2	1.6	1.6	2.1	2.1	1.3	2.3
4-Feb	1.8	Z	1.8	1.8	2.0	2.0	2.3	2.4	3.1	2.4	1.8	1.5	1.5	1.6	1.4	1.4	2.7	2.1	1.8	1.0	0.8	0.5	0.4	0.6	1.7	3.1
5-Feb	0.7	0.9	Z	0.9	0.8	0.9	3.0	4.1	1.4	1.3	1.9	2.0	1.3	1.2	1.4	1.8	2.3	3.2	2.5	2.9	2.6	2.3	2.6	3.0	2.0	4.1
6-Feb	3.2	2.0	1.4	Z	1.4	2.0	2.3	1.7	1.7	1.5	1.6	1.7	2.0	2.0	1.9	2.5	2.9	3.3	3.0	3.5	4.5	3.9	3.0	2.5	2.4	4.5
7-Feb	3.4	2.9	2.5	1.9	Z	2.4	2.6	2.3	2.6	2.0	2.1	2.3	4.0	8.3	9.0	8.7	4.6	4.3	3.8	1.5	0.7	1.0	0.8	1.2	3.3	9.0
8-Feb	2.1	2.3	1.5	2.4	2.3	Z	2.5	1.3	1.8	2.1	2.3	2.6	4.2	4.3	5.0	4.5	6.7	3.4	1.7	1.4	1.3	1.7	1.3	0.7	2.6	6.7
9-Feb	Z	0.9	0.8	0.5	0.2	0.5	0.9	1.4	1.1	1.5	1.5	1.6	C	C	C	C	C	C	C	3.6	3.6	3.3	2.7	2.4	--	3.6
10-Feb	2.1	Z	2.0	1.7	1.8	1.6	2.0	2.0	2.0	2.4	3.1	3.7	3.2	2.8	3.5	2.5	2.7	5.5	4.6	6.0	6.3	6.1	5.5	5.0	3.4	6.3
11-Feb	5.2	4.9	Z	3.3	3.0	2.3	2.5	2.1	2.9	1.8	1.1	1.0	1.0	1.0	1.0	0.9	1.6	1.3	1.5	1.9	1.3	1.5	1.1	1.7	2.0	5.2
12-Feb	1.8	2.0	1.7	Z	1.6	1.2	1.2	1.3	1.1	1.2	1.3	1.3	1.3	1.0	0.8	1.2	1.2	0.9	1.0	1.3	1.4	2.5	2.5	2.6	1.5	2.6
13-Feb	1.9	2.1	1.9	0.9	Z	0.7	0.7	0.9	1.0	1.1	0.8	0.7	0.8	0.9	0.7	0.6	0.8	1.1	0.7	0.9	2.7	1.0	1.4	1.4	1.1	2.7
14-Feb	0.8	1.3	1.2	1.2	1.2	Z	0.9	1.5	1.5	1.6	1.7	2.3	0.7	0.5	0.5	0.4	0.5	2.5	3.1	1.7	1.0	0.7	0.5	0.9	1.2	3.1
15-Feb	Z	1.3	2.6	0.9	1.7	2.0	1.9	1.8	2.4	0.8	0.8	0.9	1.7	2.2	2.6	4.9	4.7	4.1	8.7	5.4	5.5	4.2	6.7	5.9	3.2	8.7
16-Feb	7.5	Z	5.5	4.3	6.2	4.6	3.1	2.7	1.8	2.4	3.5	2.1	2.1	1.4	1.1	0.9	1.1	1.3	0.6	0.5	0.6	1.0	1.0	0.6	2.4	7.5
17-Feb	0.7	1.2	Z	3.1	3.5	1.2	3.2	1.0	0.5	0.5	0.8	0.4	0.2	0.3	0.2	0.2	0.3	0.2	0.1	0.0	0.2	0.2	0.0	0.0	0.8	3.5
18-Feb	0.1	0.1	0.2	Z	0.7	0.5	1.0	1.0	1.2	1.3	0.8	0.5	0.7	0.6	0.6	0.9	1.1	1.8	2.0	2.0	1.9	3.5	3.7	6.2	1.4	6.2
19-Feb	3.9	6.0	6.2	3.3	Z	1.2	2.0	3.1	2.1	1.7	0.8	0.9	0.6	0.5	0.6	0.8	1.3	2.4	1.9	1.2	1.9	1.1	2.0	3.3	2.1	6.2
20-Feb	3.8	3.8	3.5	3.9	4.0	Z	5.3	4.4	4.3	4.5	5.5	5.6	4.7	5.3	6.9	9.3	10.0	12.8	13.8	13.4	13.9	10.9	9.4	7.4	7.2	13.9
21-Feb	Z	4.2	3.8	9.0	7.8	12.0	7.1	6.4	4.9	5.3	6.0	4.3	2.2	3.2	3.9	3.1	2.7	2.2	2.1	1.9	0.7	0.3	0.2	0.3	4.1	12.0
22-Feb	1.2	Z	0.5	0.5	0.2	0.1	0.5	0.1	0.9	0.3	0.3	0.4	0.6	0.6	0.4	0.5	0.7	0.4	0.1	0.4	0.4	0.2	0.2	0.6	0.4	1.2
23-Feb	0.4	0.4	Z	1.4	1.1	1.2	3.7	1.3	2.0	1.2	1.5	2.2	0.9	0.9	0.9	1.6	1.8	1.8	1.1	1.3	1.7	1.5	1.5	1.5	1.4	3.7
24-Feb	1.3	1.3	1.3	Z	1.8	1.6	1.9	1.7	1.7	1.6	1.3	1.5	1.1	1.1	1.2	1.1	1.3	2.0	1.6	1.8	1.8	2.6	2.1	2.2	1.6	2.6
25-Feb	0.8	1.5	2.9	3.3	Z	3.8	2.8	3.7	4.2	3.9	1.9	1.0	1.1	1.1	1.0	1.1	1.8	2.4	3.7	4.2	8.4	2.2	1.3	1.4	2.6	8.4
26-Feb	5.5	5.2	3.9	2.6	3.3	Z	4.1	3.4	3.9	2.5	1.2	0.6	0.7	3.0	4.3	5.1	6.3	6.9	4.1	2.9	2.6	2.6	2.4	2.0	3.4	6.9
27-Feb	Z	2.1	1.9	1.9	1.6	3.0	3.1	3.1	2.5	2.3	1.7	1.2	1.0	0.8	0.8	0.9	2.1	2.8	3.1	4.6	4.3	3.6	5.8	24.6	3.4	24.6
28-Feb	27.0	Z	6.9	6.0	6.0	4.9	3.6	3.7	4.9	2.3	1.3	0.9	0.8	0.8	0.8	0.9	0.7	1.0	1.4	1.2	1.2	1.9	3.7	5.5	3.8	27.0
	3.4	2.4	2.5	2.6	2.4	2.3	2.5	2.4	2.3	1.9	1.9	1.8	1.6	1.9	2.0	2.2	2.5	2.8	2.7	2.6	2.7	2.3	2.4	3.2	Diurnal Average	
	27.0	6.0	6.9	9.0	7.8	12.0	7.1	6.4	4.9	5.3	6.0	5.6	4.7	8.3	9.0	9.3	10.0	12.8	13.8	13.4	13.9	10.9	9.4	24.6	Diurnal Maximum	

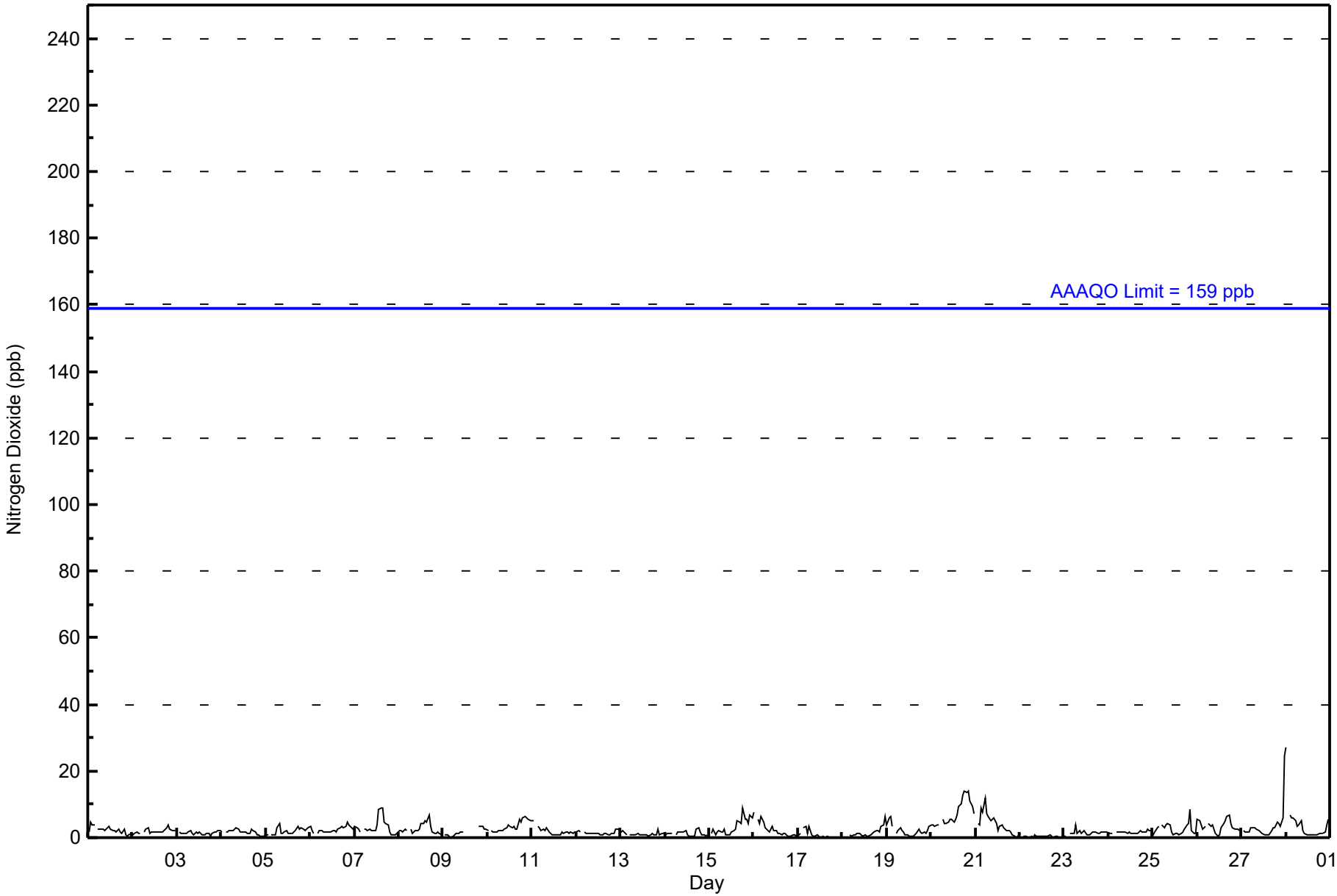
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Jackfish 2/3 - February 2026



Nitrogen Dioxide (NO_2) - ppb
Jackfish 2/3 - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	635	99.69	99.69
21 - 40	2	0.31	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Jackfish 2/3 - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	19	31	67	38	5	19	16	15	29	68	86	91	57	20	17	41	619
21 - 40	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	19	32	67	38	5	20	16	15	29	68	86	91	57	20	17	41	621

Total Number of Valid Hours: 621

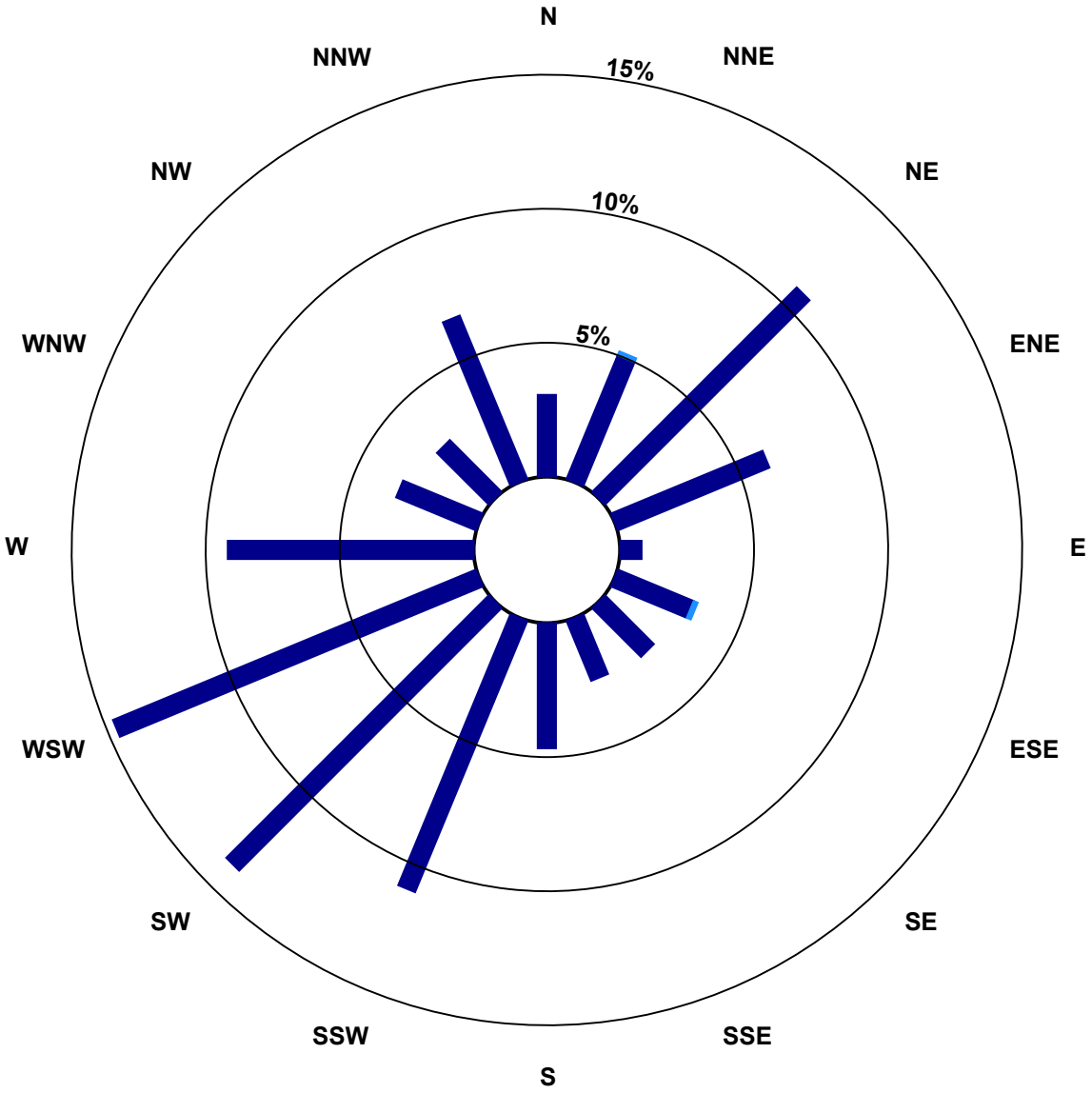
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Jackfish 2/3



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

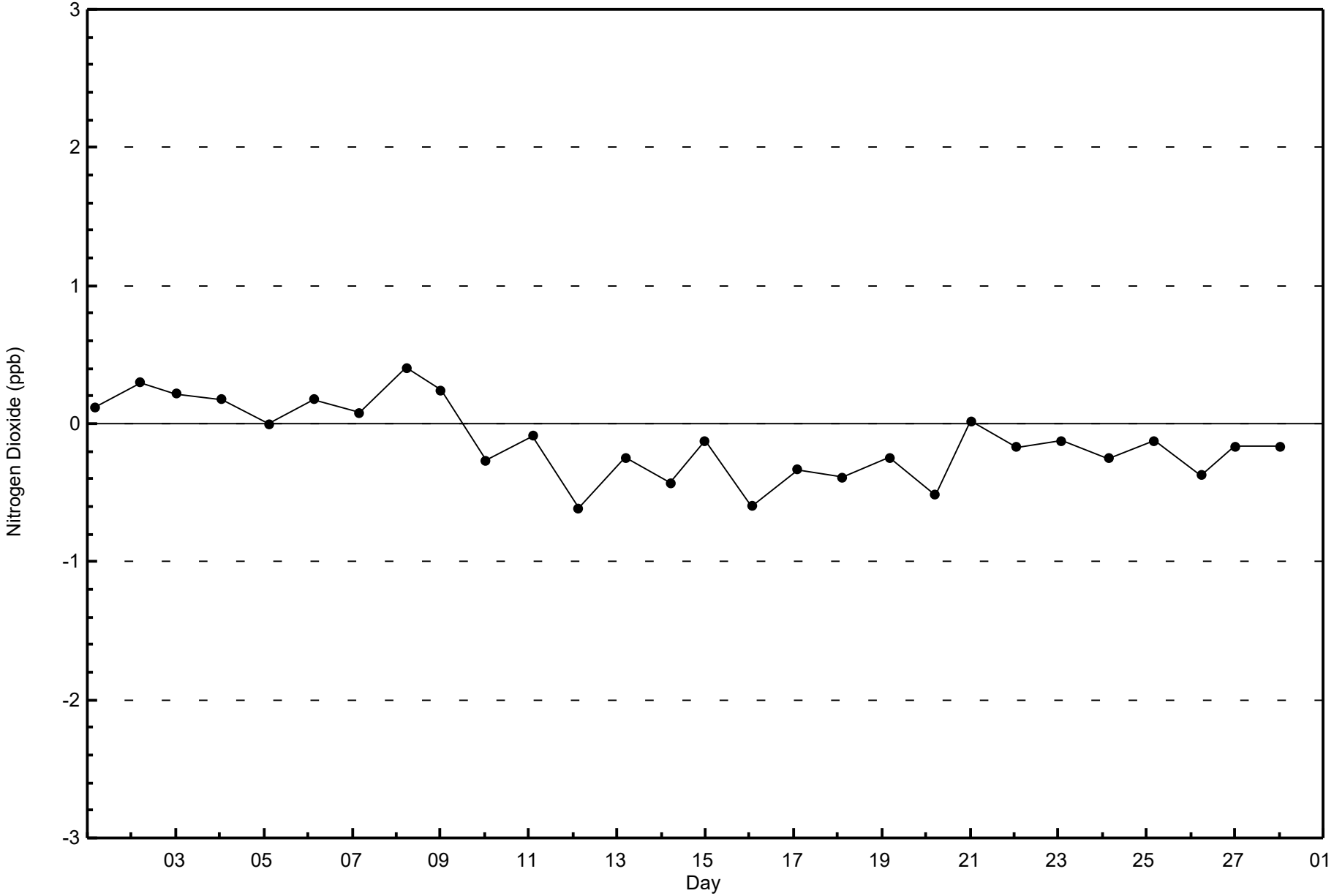
Total Number of Valid Hours: 621

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Jackfish 2/3 - February 2026

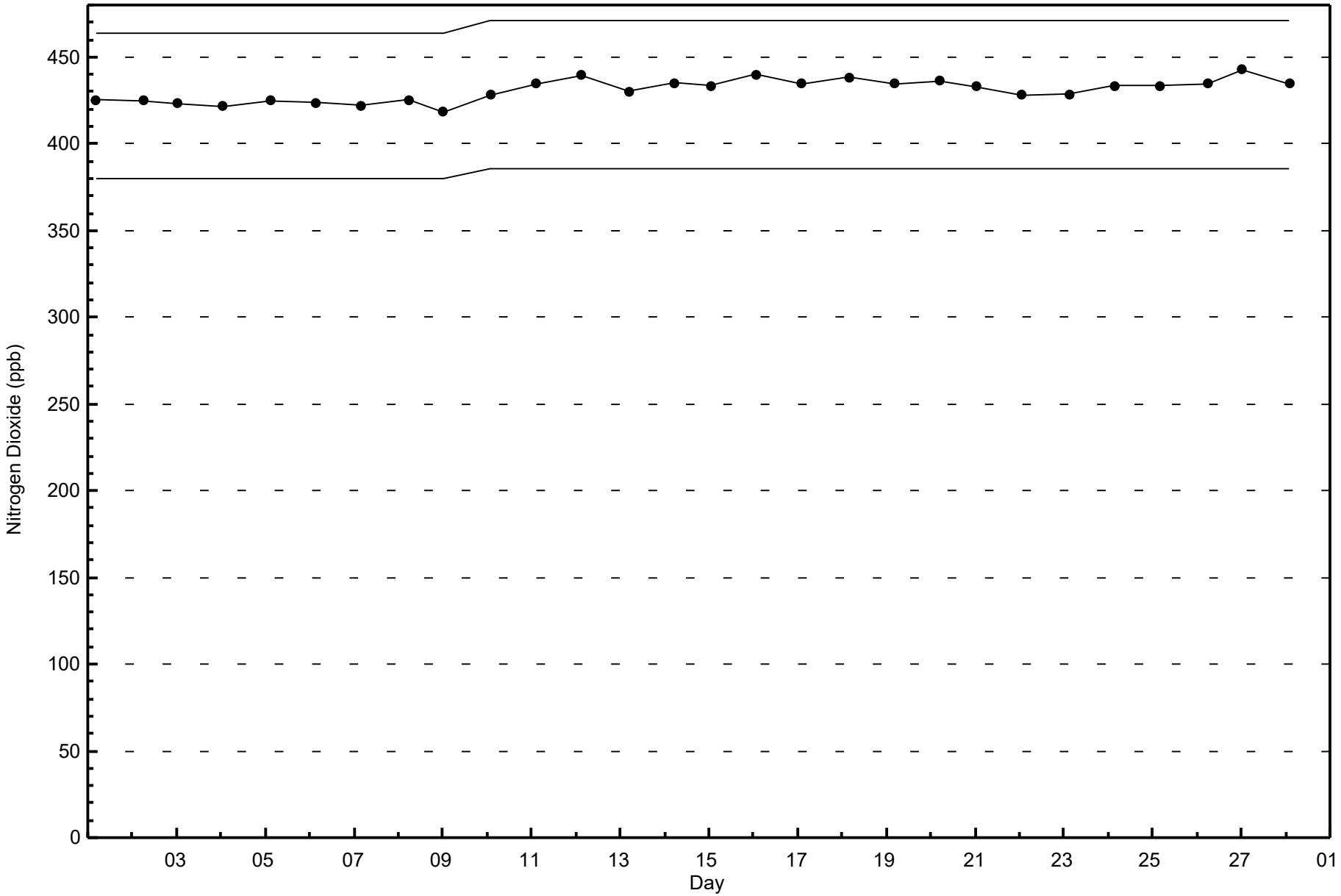


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Jackfish 2/3 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Jackfish 2/3 - February 2026

Maximum Value: 28.5 ppb on Feb 28 01:00

Maximum Daily Average: 8.4 ppb on Feb 20

Minimum Value: 0.0 ppb on Feb 17 20:00

Minimum Daily Average: 0.8 ppb on Feb 22

Maximum Diurnal Average: 3.6 ppb at hour 1

Minimum Diurnal Average: 2.4 ppb at hour 13

Monthly Average: 2.80 ppb

Percentiles: $P_1 = 0.2$ $P_{10} = 0.8$ $Q_1 = 1.3$ Median = 2.1 $Q_3 = 3.3$ $P_{90} = 5.5$ $P_{99} = 12.5$

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	35
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.6	4.8	3.9	4.0	Z	2.7	2.7	2.6	2.5	2.3	3.3	3.8	3.0	2.4	2.2	2.1	2.5	2.0	1.4	2.6	1.2	0.5	1.0	1.3	2.5	4.8
2-Feb	1.0	1.2	1.6	1.4	1.6	Z	2.5	2.6	2.9	1.4	1.8	2.3	2.5	2.4	2.3	2.1	1.9	2.3	3.5	4.0	2.9	2.2	2.4	2.0	2.2	4.0
3-Feb	Z	2.2	1.2	1.3	1.2	1.5	1.9	2.7	1.7	0.9	1.5	1.7	2.2	1.3	1.0	1.2	1.5	1.5	0.6	1.6	1.6	1.7	2.1	2.3	1.6	2.7
4-Feb	1.9	Z	2.2	2.1	2.3	2.0	2.6	2.7	3.8	3.3	2.5	2.3	2.0	2.1	2.0	1.7	3.0	2.4	2.1	1.1	1.1	0.6	0.8	1.0	2.1	3.8
5-Feb	0.9	1.3	Z	1.6	1.0	1.5	3.7	5.2	1.5	1.4	2.5	2.8	2.0	1.9	2.0	2.2	2.8	3.6	2.7	3.2	3.1	2.6	3.0	3.4	2.4	5.2
6-Feb	3.5	2.2	1.7	Z	1.9	2.3	2.3	2.1	2.1	1.9	1.8	2.3	3.0	2.6	2.4	3.0	3.2	3.3	3.0	3.7	4.5	4.1	3.0	2.5	2.7	4.5
7-Feb	3.4	2.9	2.5	1.9	Z	2.4	2.6	2.5	3.0	2.6	2.6	3.2	5.5	11.8	12.2	10.4	4.9	4.5	3.8	1.5	0.7	1.2	0.8	1.2	3.8	12.2
8-Feb	2.2	2.4	1.6	2.4	2.4	Z	2.9	1.7	2.4	2.7	3.3	3.9	5.8	6.2	7.4	6.1	9.0	3.9	1.8	1.7	1.5	1.9	1.6	1.1	3.3	9.0
9-Feb	Z	1.5	1.2	0.6	0.5	0.8	1.2	2.8	1.7	3.0	2.6	2.4	C	C	C	C	C	C	C	3.6	3.6	3.3	2.7	2.4	--	3.6
10-Feb	2.1	Z	2.0	1.7	1.8	1.6	2.1	2.0	2.1	3.2	5.0	6.1	4.6	3.5	4.4	3.0	2.8	6.4	4.7	6.1	6.6	6.2	5.9	5.1	3.9	6.6
11-Feb	5.6	5.4	Z	3.9	3.6	2.6	2.5	2.5	4.6	2.5	1.4	1.2	1.3	1.4	1.2	1.1	1.8	1.6	1.6	2.2	1.3	1.8	1.1	2.0	2.4	5.6
12-Feb	2.0	2.0	1.9	Z	2.0	1.5	1.3	1.5	1.2	1.4	1.5	1.7	1.6	1.5	0.9	1.6	1.5	0.9	1.0	1.3	1.4	2.5	2.5	2.6	1.6	2.6
13-Feb	1.9	2.3	2.0	1.0	Z	0.9	0.7	0.9	1.3	1.4	1.1	0.8	1.0	1.2	1.2	0.7	1.0	1.3	0.7	1.0	4.2	1.1	1.5	1.7	1.3	4.2
14-Feb	0.8	1.4	1.2	1.2	1.3	Z	1.3	1.8	1.7	2.1	2.2	3.0	1.0	0.6	0.8	0.7	0.7	2.6	4.2	1.9	1.0	0.8	0.5	0.9	1.5	4.2
15-Feb	Z	1.8	3.8	0.9	1.7	2.0	1.9	1.8	2.4	0.8	0.9	0.9	1.7	2.2	2.6	4.9	4.7	4.1	8.7	5.4	5.5	4.2	6.7	5.9	3.3	8.7
16-Feb	7.5	Z	5.5	4.3	6.2	4.6	3.1	2.7	1.8	2.9	5.5	3.8	3.5	2.1	1.4	1.0	1.1	1.3	0.6	0.5	0.6	1.0	1.0	0.7	2.7	7.5
17-Feb	0.7	1.3	Z	3.4	4.0	1.2	3.4	1.0	0.5	0.5	1.1	0.5	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.0	0.2	0.2	0.0	0.0	0.8	4.0
18-Feb	0.1	0.1	0.2	Z	0.8	0.5	1.0	1.0	1.4	1.7	1.0	0.8	1.1	1.1	1.1	1.2	1.5	2.1	2.2	2.3	2.1	3.9	4.5	8.6	1.8	8.6
19-Feb	4.9	9.6	8.4	4.2	Z	1.8	2.9	4.6	3.1	3.2	1.9	1.6	1.3	0.8	0.7	1.2	1.5	2.9	1.9	1.2	2.1	1.1	2.0	3.3	2.9	9.6
20-Feb	3.8	4.0	3.5	3.9	4.0	Z	6.8	5.1	5.5	7.2	9.3	9.4	7.5	7.4	9.2	11.6	11.6	13.5	14.0	13.7	14.2	11.0	9.7	7.8	8.4	14.2
21-Feb	Z	4.6	4.2	9.4	8.3	12.7	7.6	6.9	6.3	8.3	10.8	7.7	3.7	5.0	5.2	4.0	3.4	2.5	2.4	2.4	1.0	0.6	0.4	0.4	5.1	12.7
22-Feb	1.8	Z	0.9	0.9	0.7	0.4	1.0	0.4	1.5	0.8	0.6	0.8	1.0	1.2	0.6	0.8	1.1	0.6	0.2	0.4	0.5	0.3	0.4	0.6	0.8	1.8
23-Feb	0.4	0.6	Z	1.6	1.4	1.4	4.9	1.6	2.8	1.8	2.6	3.4	1.2	1.1	1.2	2.0	2.3	2.3	1.3	1.5	1.9	1.5	2.0	1.9	1.9	4.9
24-Feb	1.6	1.8	1.5	Z	2.5	2.0	2.4	2.1	2.6	2.6	2.5	2.9	2.0	2.0	1.7	1.5	1.6	2.2	1.8	2.0	1.9	3.1	2.5	2.3	2.1	3.1
25-Feb	0.8	1.5	2.9	3.6	Z	4.6	3.3	3.9	4.9	4.9	2.6	1.5	1.6	1.6	1.4	1.4	2.4	2.9	3.8	4.7	10.3	2.5	1.6	1.7	3.1	10.3
26-Feb	6.0	5.9	4.5	3.1	3.8	Z	4.9	3.7	5.6	3.6	1.9	1.1	0.8	3.9	5.8	6.0	7.2	7.8	4.1	3.1	2.7	2.8	2.5	2.1	4.0	7.8
27-Feb	Z	2.4	2.0	2.1	1.6	3.2	3.3	3.3	3.1	3.3	2.5	2.0	1.5	1.0	1.0	1.0	2.3	2.8	3.1	4.6	4.3	3.6	5.8	28.2	3.8	28.2
28-Feb	28.5	Z	7.1	6.0	6.0	5.0	3.7	4.2	6.6	3.7	2.1	1.4	1.4	1.1	1.1	0.9	0.7	1.0	1.4	1.2	1.2	2.0	3.7	5.5	4.1	28.5
	3.6	2.7	2.8	2.8	2.6	2.6	2.9	2.7	2.9	2.7	2.8	2.7	2.4	2.6	2.7	2.7	2.9	3.1	2.8	2.8	3.0	2.4	2.6	3.5	Diurnal Average	
	28.5	9.6	8.4	9.4	8.3	12.7	7.6	6.9	6.6	8.3	10.8	9.4	7.5	11.8	12.2	11.6	11.6	13.5	14.0	13.7	14.2	11.0	9.7	28.2	Diurnal Maximum	

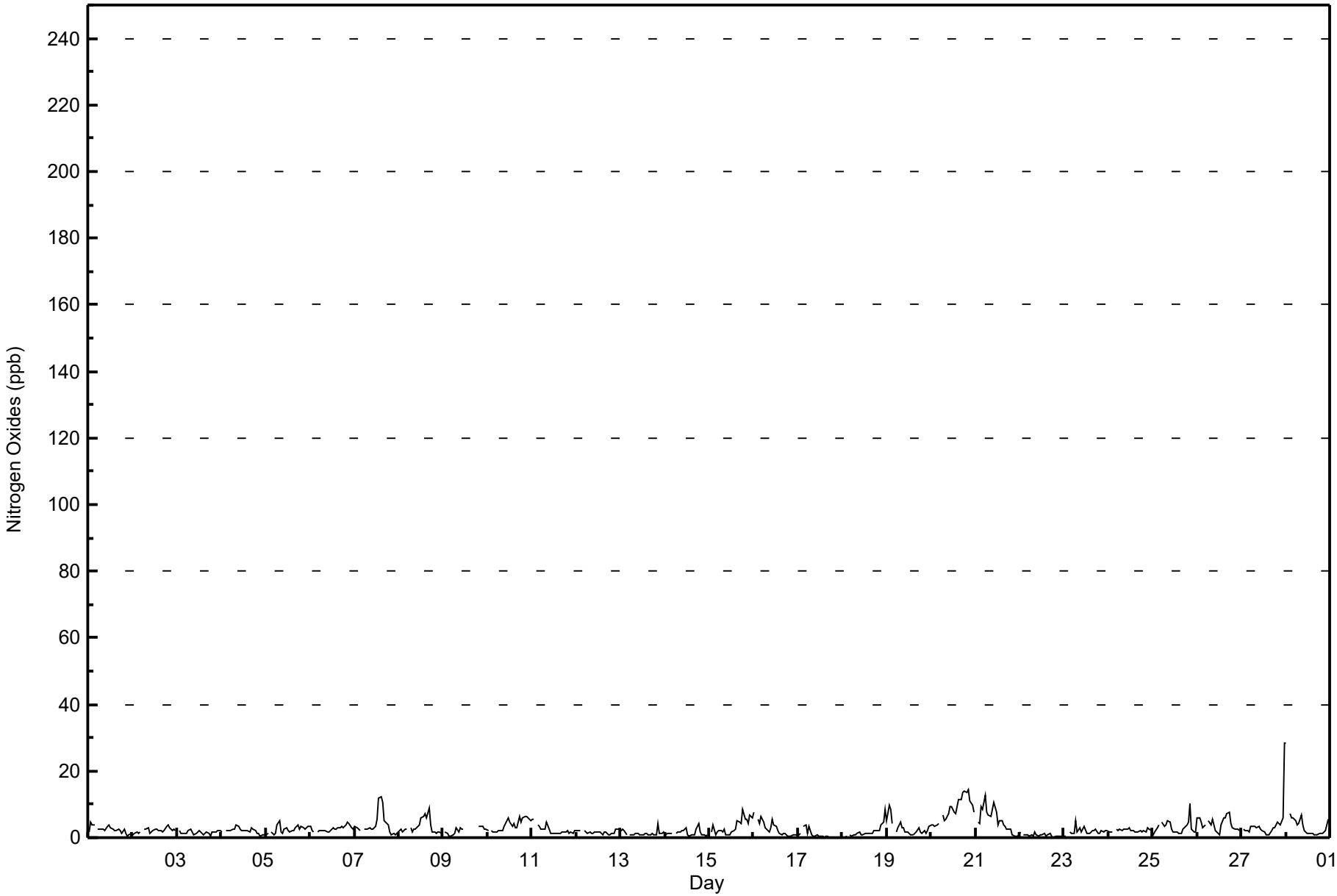
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Jackfish 2/3 - February 2026



Nitrogen Oxides (NO_X) - ppb
Jackfish 2/3 - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	635	99.69	99.69
21 - 40	2	0.31	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Jackfish 2/3 - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	19	31	67	38	5	19	16	15	29	68	86	91	57	20	17	41	619
21 - 40	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	19	32	67	38	5	20	16	15	29	68	86	91	57	20	17	41	621

Total Number of Valid Hours: 621

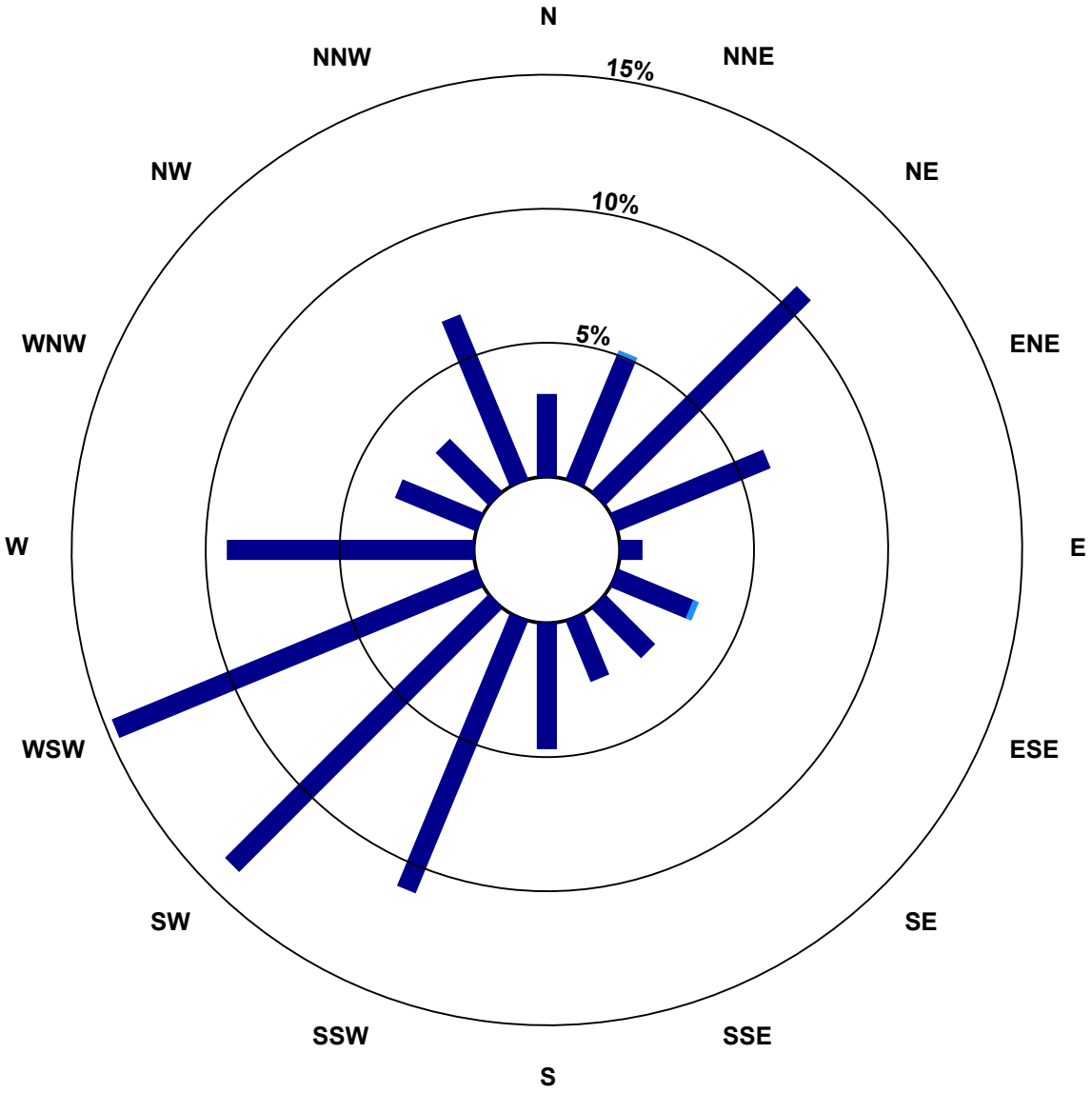
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Jackfish 2/3



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

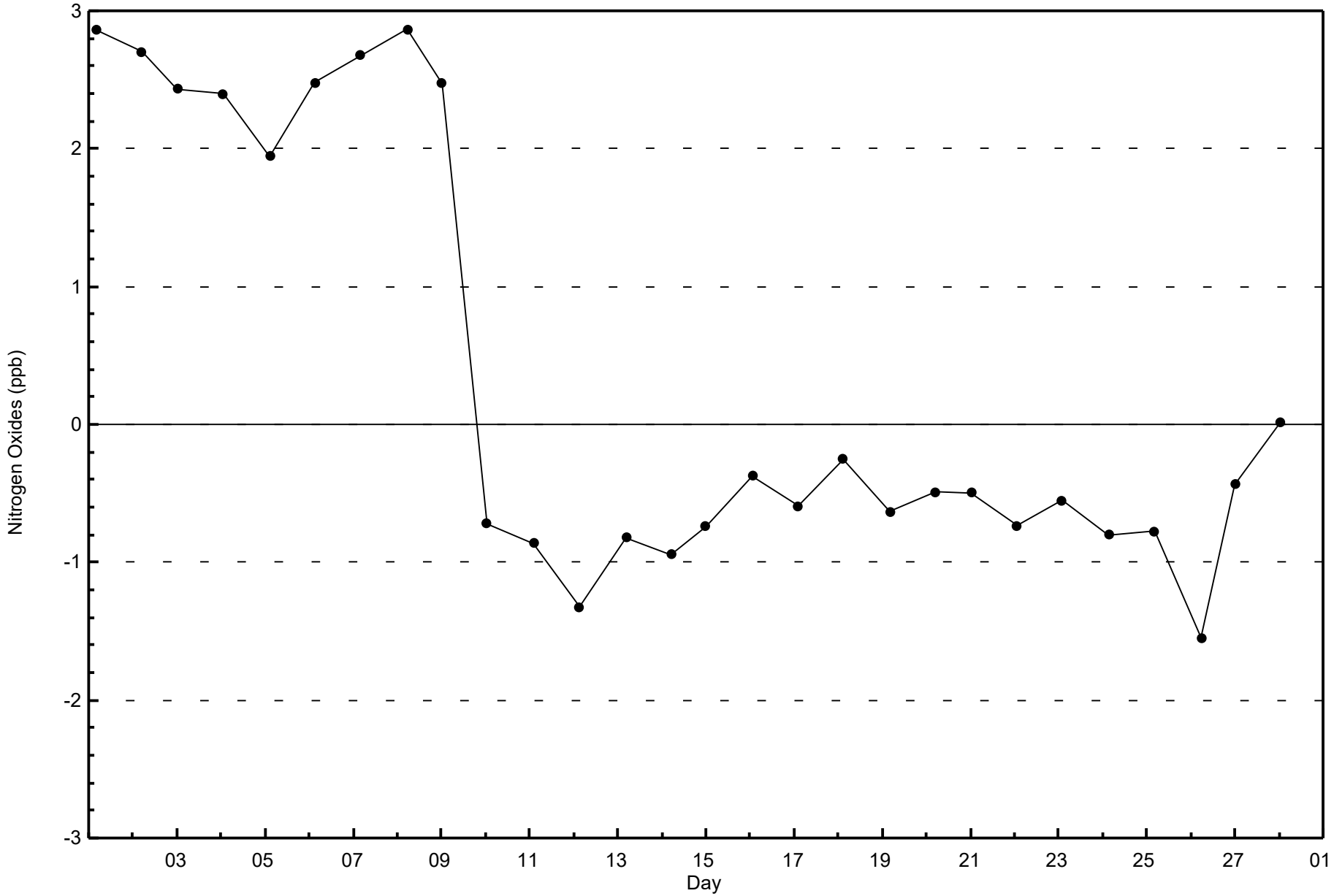
Total Number of Valid Hours: 621

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Jackfish 2/3 - February 2026

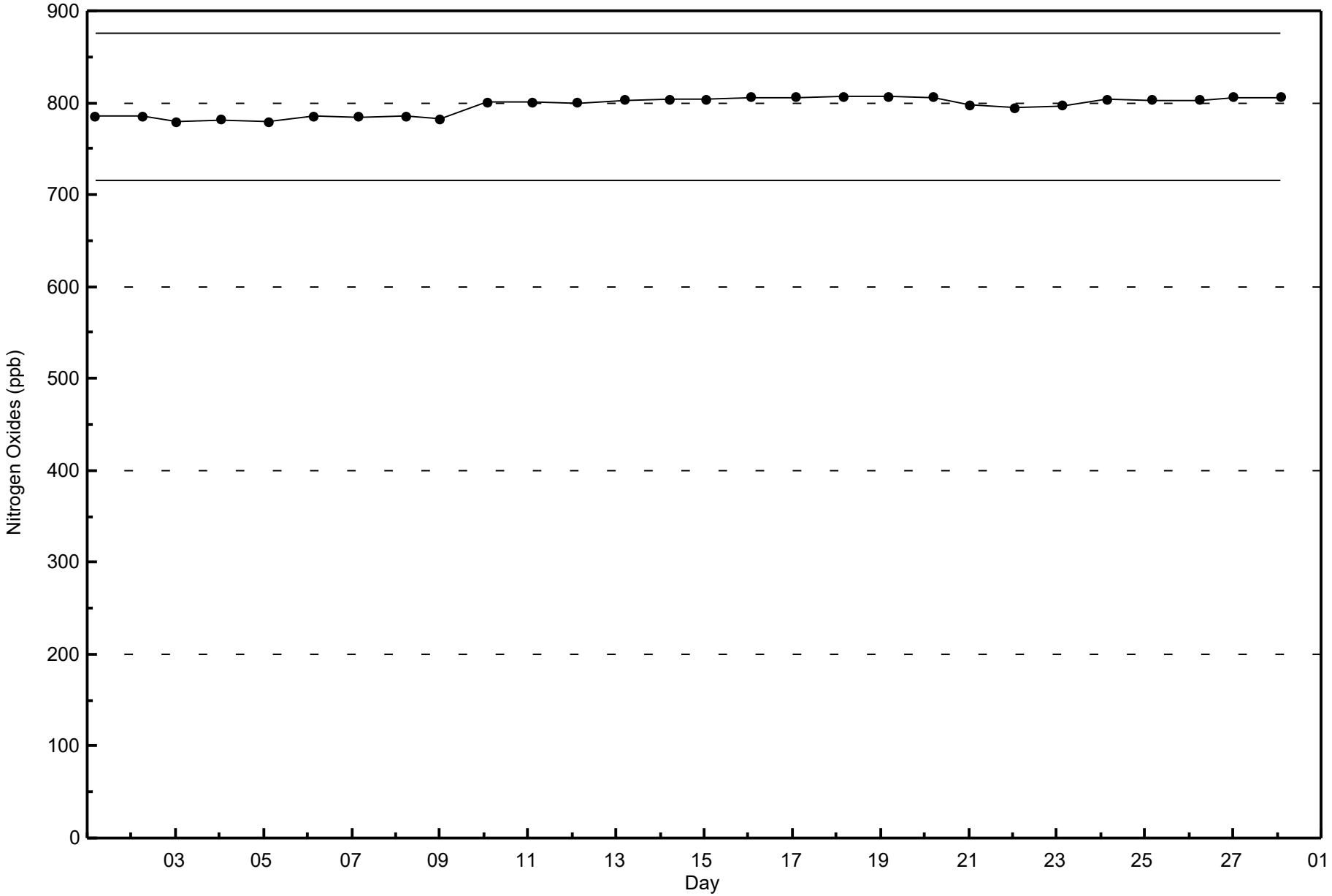


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Jackfish 2/3 - February 2026



Maximum Value: 8.0 C on Feb 5 06:00

Maximum Daily Average: 2.7 C on Feb 4

Minimum Value: -33.8 C on Feb 19 05:00

Minimum Daily Average: -28.8 C on Feb 18

Maximum Diurnal Average: -7.8 C at hour 15

Minimum Diurnal Average: -13.2 C at hour 8

Monthly Average: -11.08 C

Percentiles: P_1 = -33.0 P_{10} = -25.7 Q_1 = -19.7 Median = -8.9 Q_3 = -3.2 P_{90} = 0.8 P_{99} = 6.3

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

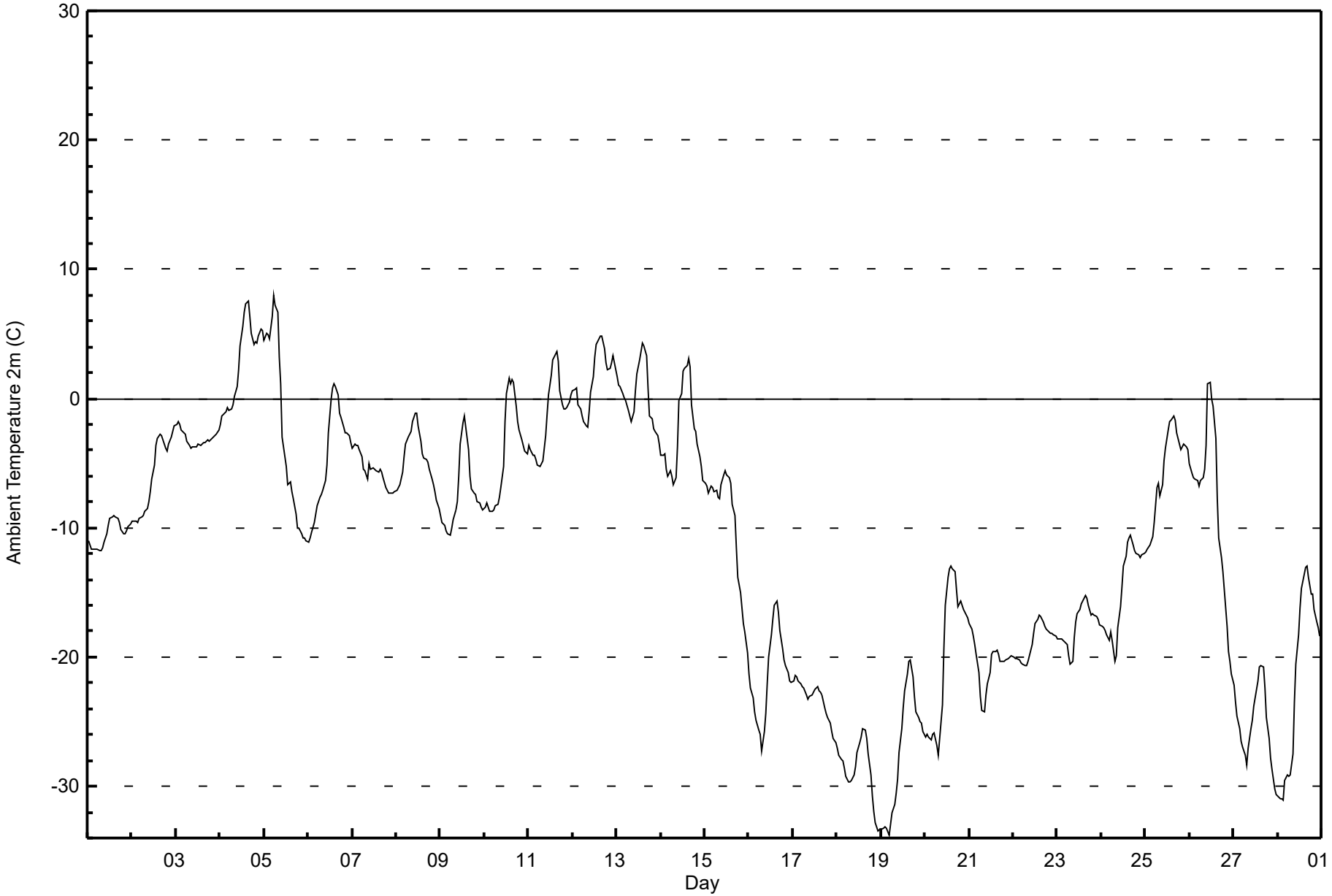
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.0	-11.3	-11.7	-11.7	-11.7	-11.7	-11.7	-11.7	-11.5	-11.1	-10.5	-9.9	-9.3	-9.1	-9.1	-9.1	-9.2	-9.6	-10.1	-10.4	-10.5	-10.3	-9.9	-9.7	-10.5	-9.1
2-Feb	-9.5	-9.5	-9.5	-9.6	-9.3	-9.1	-9.0	-8.8	-8.5	-8.0	-7.2	-6.2	-5.2	-3.6	-3.1	-2.8	-2.8	-3.2	-3.8	-4.0	-3.5	-2.9	-2.5	-2.1	-6.0	-2.1
3-Feb	-2.0	-1.8	-2.0	-2.4	-2.6	-2.8	-3.3	-3.6	-3.8	-3.7	-3.7	-3.7	-3.5	-3.6	-3.5	-3.5	-3.5	-3.2	-3.3	-3.2	-3.0	-2.9	-2.7	-2.4	-3.1	-1.8
4-Feb	-2.0	-1.4	-1.1	-1.1	-0.7	-0.9	-0.9	-0.5	0.2	1.0	2.2	4.0	5.6	6.7	7.3	7.6	6.4	5.1	4.1	4.4	4.3	4.9	5.4	5.3	2.7	7.6
5-Feb	4.5	5.0	5.0	4.6	6.3	8.0	7.2	6.7	3.2	1.1	-3.0	-4.5	-5.3	-6.7	-6.4	-7.2	-7.7	-8.9	-10.0	-10.0	-10.5	-10.8	-10.8	-11.0	-2.6	8.0
6-Feb	-11.1	-10.8	-10.4	-9.6	-9.0	-8.3	-7.7	-7.4	-7.0	-6.3	-5.2	-2.7	-0.1	0.8	1.2	0.9	0.3	-1.2	-1.5	-2.3	-2.7	-2.7	-2.8	-3.4	-4.5	1.2
7-Feb	-3.8	-3.5	-3.7	-3.6	-3.9	-4.5	-5.5	-5.6	-6.2	-5.1	-5.5	-5.4	-5.5	-5.6	-5.7	-5.5	-5.6	-6.1	-6.9	-7.1	-7.4	-7.4	-7.3	-7.2	-5.6	-3.5
8-Feb	-7.1	-6.9	-6.6	-5.7	-4.5	-3.5	-3.0	-2.8	-2.5	-1.8	-1.1	-1.1	-2.1	-3.3	-4.2	-4.6	-4.7	-4.9	-5.5	-6.2	-6.6	-7.2	-7.8	-8.5	-4.7	-1.1
9-Feb	-9.1	-9.6	-9.9	-10.2	-10.4	-10.6	-10.0	-9.3	-8.7	-7.9	-6.0	-3.5	-1.9	-1.4	-2.2	-4.0	-6.0	-7.0	-7.3	-7.5	-7.9	-8.1	-8.4	-8.6	-7.3	-1.4
10-Feb	-8.4	-8.1	-8.5	-8.8	-8.7	-8.6	-8.3	-8.2	-7.7	-6.9	-5.2	-1.8	0.4	1.6	1.2	1.4	1.2	-0.6	-1.8	-2.4	-3.2	-3.6	-4.1	-4.2	-4.3	1.6
11-Feb	-3.7	-4.0	-4.4	-4.3	-4.7	-5.1	-5.3	-5.0	-4.8	-2.9	-1.3	0.3	1.8	3.0	3.2	3.6	2.8	0.6	-0.4	-0.8	-0.8	-0.7	-0.3	0.3	-1.4	3.6
12-Feb	0.6	0.7	0.9	-0.4	-0.8	-1.4	-1.8	-2.1	-2.2	-1.0	0.5	1.6	3.2	4.2	4.6	4.8	4.9	3.8	2.8	2.3	2.4	2.8	3.3	2.8	1.5	4.9
13-Feb	1.7	1.1	0.9	0.4	0.1	-0.2	-0.9	-1.4	-1.8	-1.0	0.6	1.9	3.0	3.6	4.3	4.0	3.3	0.9	-1.3	-1.5	-2.3	-2.5	-2.9	-3.5	0.3	4.3
14-Feb	-4.4	-4.3	-4.3	-5.4	-6.0	-5.6	-6.0	-6.7	-6.1	-3.7	-0.2	0.4	2.1	2.3	2.5	3.1	2.5	-0.5	-2.3	-2.5	-3.5	-4.4	-5.3	-6.3	-2.7	3.1
15-Feb	-6.5	-6.8	-7.4	-6.7	-6.9	-7.2	-7.1	-7.6	-7.8	-6.6	-5.9	-5.5	-5.9	-6.2	-6.5	-8.2	-9.1	-11.5	-13.8	-15.0	-16.2	-17.4	-18.0	-19.7	-9.6	-5.5
16-Feb	-21.3	-22.3	-23.1	-24.2	-24.8	-25.6	-26.0	-27.3	-25.8	-24.3	-22.1	-20.0	-18.3	-17.0	-16.0	-15.6	-16.6	-17.9	-19.3	-20.2	-20.7	-21.2	-21.8	-21.9	-21.4	-15.6
17-Feb	-21.8	-21.5	-21.6	-21.9	-22.0	-22.3	-22.4	-22.9	-23.2	-23.1	-22.9	-22.7	-22.4	-22.2	-22.6	-22.7	-22.9	-23.9	-24.3	-24.6	-25.1	-25.8	-26.3	-26.6	-23.2	-21.5
18-Feb	-27.1	-27.6	-27.9	-28.1	-28.5	-29.2	-29.6	-29.6	-29.6	-29.2	-28.5	-27.4	-26.6	-26.2	-25.6	-25.6	-26.3	-27.5	-29.1	-30.7	-31.9	-32.8	-33.4	-33.4	-28.8	-25.6
19-Feb	-33.3	-33.2	-33.1	-33.2	-33.8	-33.0	-32.0	-31.5	-30.6	-29.4	-27.4	-25.5	-23.9	-22.6	-21.3	-20.3	-20.2	-21.5	-23.1	-24.3	-24.7	-25.0	-25.2	-25.8	-27.2	-20.2
20-Feb	-26.2	-26.0	-26.2	-26.4	-26.0	-25.9	-26.9	-27.6	-26.3	-23.7	-19.4	-16.0	-13.8	-13.2	-12.9	-13.1	-13.4	-14.9	-16.1	-15.6	-16.0	-16.4	-16.7	-17.0	-19.8	-12.9
21-Feb	-17.5	-17.8	-18.4	-19.0	-19.8	-21.2	-23.1	-24.2	-24.2	-22.9	-22.0	-21.2	-19.8	-19.6	-19.5	-19.5	-19.8	-20.4	-20.4	-20.3	-20.2	-20.1	-20.0	-19.9	-20.4	-17.5
22-Feb	-20.0	-20.1	-20.2	-20.2	-20.4	-20.6	-20.6	-20.7	-20.4	-19.9	-19.0	-18.1	-17.4	-17.0	-16.7	-16.9	-17.3	-17.6	-17.8	-18.0	-18.1	-18.2	-18.3	-18.4	-18.8	-16.7
23-Feb	-18.6	-18.6	-18.6	-18.7	-18.8	-19.0	-19.9	-20.5	-20.3	-18.5	-17.2	-16.7	-16.3	-15.9	-15.7	-15.3	-15.5	-16.0	-16.8	-16.7	-16.7	-16.9	-17.1	-17.5	-17.6	-15.3
24-Feb	-17.6	-17.7	-17.9	-18.3	-18.7	-18.1	-18.7	-20.3	-19.9	-17.7	-16.1	-14.5	-13.0	-12.2	-11.1	-10.8	-10.6	-11.3	-11.8	-12.0	-12.1	-12.4	-12.1	-12.0	-14.9	-10.6
25-Feb	-11.9	-11.7	-11.3	-11.0	-10.7	-9.5	-6.8	-6.6	-7.5	-6.7	-4.8	-3.8	-2.4	-1.8	-1.6	-1.3	-1.7	-2.6	-3.6	-4.0	-3.7	-3.5	-3.8	-4.0	-5.7	-1.3
26-Feb	-5.0	-5.8	-6.1	-6.2	-6.3	-6.8	-6.4	-6.1	-5.5	-3.6	1.2	1.2	0.0	-0.6	-3.1	-7.8	-10.8	-12.3	-13.4	-14.8	-17.6	-19.6	-20.3	-21.3	-8.2	1.2
27-Feb	-22.2	-23.4	-24.6	-25.5	-26.6	-26.9	-27.6	-28.3	-27.1	-25.6	-24.8	-23.8	-22.5	-21.9	-20.7	-20.6	-20.8	-22.4	-24.7	-26.3	-27.9	-28.7	-30.2	-30.6	-25.1	-20.6
28-Feb	-30.7	-31.0	-30.9	-31.0	-29.5	-29.1	-29.3	-29.1	-27.5	-23.5	-20.6	-18.2	-16.3	-14.7	-13.7	-13.1	-12.9	-13.8	-15.1	-15.1	-16.3	-17.2	-17.7	-18.4	-21.5	-12.9
	-12.3	-12.4	-12.6	-12.8	-12.8	-12.8	-13.0	-13.2	-13.0	-11.9	-10.5	-9.4	-8.4	-7.9	-7.8	-7.9	-8.4	-9.6	-10.6	-11.0	-11.5	-11.8	-12.0	-12.3	Diurnal Average	
	4.5	5.0	5.0	4.6	6.3	8.0	7.2	6.7	3.2	1.1	2.2	4.0	5.6	6.7	7.3	7.6	6.4	5.1	4.1	4.4	4.3	4.9	5.4	5.3	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Jackfish 2/3 - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	160	23.81	23.81
-20 - 0	431	64.14	87.95
0 - 10	81	12.05	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 97.3 % on Feb 8 12:00
Maximum Daily Average: 95.4 % on Feb 3

Minimum Value: 29.8 % on Feb 13 16:00
Minimum Daily Average: 42.9 % on Feb 13
Maximum Diurnal Average: 80.9 % at hour 9
Minimum Diurnal Average: 69.7 % at hour 15
Monthly Average: 76.89 %
Percentiles: P_1 = 38.1 P_{10} = 58.0 Q_1 = 70.3 Median = 77.7 Q_3 = 88.5 P_{90} = 93.9 P_{99} = 96.9

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

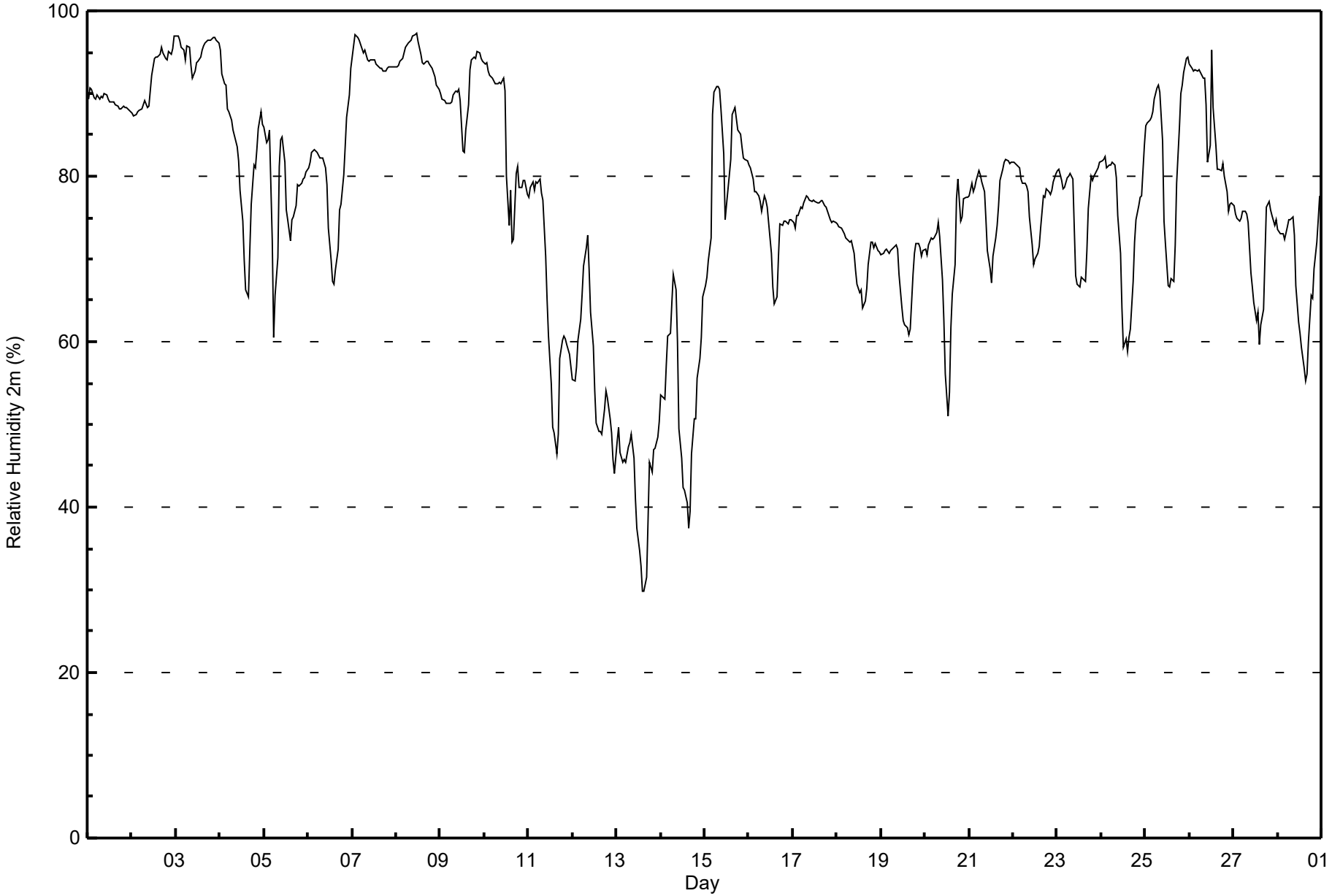
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	89.3	90.7	90.5	89.5	89.4	89.8	89.3	89.7	89.5	90.1	89.8	89.3	89.0	88.9	89.0	88.6	88.4	88.2	88.2	88.5	88.4	88.2	88.1	87.9	89.1	90.7
2-Feb	87.6	87.4	87.4	87.9	88.0	88.1	88.7	89.2	88.2	88.5	90.3	92.1	94.2	94.3	94.4	94.8	95.6	95.0	94.3	94.0	95.1	94.7	95.4	96.9	91.7	96.9
3-Feb	97.0	97.0	96.4	95.6	95.2	94.1	95.7	95.6	93.5	91.9	92.8	93.8	93.9	94.5	95.3	95.8	96.2	96.4	96.4	96.4	96.8	96.7	96.4	96.2	95.4	97.0
4-Feb	95.2	92.4	91.1	90.9	88.1	87.9	86.8	85.5	84.9	83.5	81.8	78.3	74.5	69.8	66.2	65.4	71.1	76.6	81.4	81.0	83.3	85.8	87.8	86.3	82.3	95.2
5-Feb	86.0	84.1	84.5	85.6	72.2	60.4	65.5	70.1	81.1	84.4	84.7	81.8	76.0	74.7	72.2	74.8	75.1	76.5	79.0	78.8	79.2	79.7	79.9	80.6	77.8	86.0
6-Feb	81.1	81.7	83.0	83.3	83.1	82.9	82.2	82.3	82.2	81.0	79.0	73.7	69.8	67.3	67.0	68.7	71.3	75.9	76.6	80.1	83.5	87.1	89.8	93.1	79.4	93.1
7-Feb	94.3	97.2	97.0	96.7	96.4	95.4	95.0	95.3	94.0	93.9	94.0	94.1	94.1	93.6	93.2	93.1	93.0	92.7	92.6	93.1	93.2	93.2	93.2	93.2	94.2	97.2
8-Feb	93.3	93.5	93.8	94.2	94.9	95.6	96.1	96.2	96.5	96.9	97.2	97.3	96.3	94.8	93.8	93.5	93.9	94.0	93.6	93.1	92.6	92.0	91.1	90.5	94.4	97.3
9-Feb	90.0	89.4	89.2	88.9	88.8	88.8	88.9	89.8	90.4	90.2	90.6	89.2	83.1	82.9	85.5	88.7	92.8	94.0	94.4	94.2	95.1	95.0	94.2	93.9	90.3	95.1
10-Feb	93.6	93.8	92.8	92.3	91.9	91.4	91.3	91.3	91.4	91.2	91.8	90.4	80.0	74.1	78.3	72.0	72.4	80.4	81.3	78.6	78.7	79.5	79.5	77.7	84.8	93.8
11-Feb	77.4	78.7	79.4	78.3	79.4	79.2	79.6	78.0	77.2	70.3	65.1	60.6	54.9	49.7	49.0	46.5	48.9	58.0	60.2	60.6	60.3	59.7	58.4	56.9	65.3	79.6
12-Feb	55.4	55.3	56.9	60.2	62.7	65.8	69.1	71.4	72.8	68.6	63.5	59.6	54.1	50.2	49.2	49.1	48.8	51.8	54.1	53.2	50.7	49.0	45.8	44.0	56.7	72.8
13-Feb	48.0	49.7	46.6	45.4	45.7	45.3	47.3	47.8	48.9	46.0	41.1	37.5	34.7	32.9	29.8	29.8	31.5	38.3	45.4	44.3	46.9	47.1	48.5	50.3	42.9	50.3
14-Feb	53.6	53.2	53.0	57.1	60.7	61.0	64.7	68.1	66.3	60.1	49.5	45.9	42.4	42.0	40.4	37.5	39.5	46.4	50.6	50.7	55.6	58.0	60.6	65.5	53.4	68.1
15-Feb	66.7	67.7	69.8	72.5	87.4	90.3	90.9	90.9	90.6	88.2	82.7	74.8	76.6	80.1	82.0	87.4	88.3	87.0	85.5	85.1	83.5	82.3	82.0	81.9	82.3	90.9
16-Feb	81.3	81.0	79.7	78.1	78.2	77.7	77.0	75.8	77.6	77.1	76.2	74.4	70.6	66.7	64.6	65.4	70.2	74.2	74.1	74.6	74.5	74.3	74.8	74.7	74.7	81.3
17-Feb	74.4	73.7	75.3	75.2	76.2	76.0	76.7	77.7	77.5	77.1	77.0	77.2	76.9	76.8	76.8	77.0	77.2	76.4	76.3	75.7	74.8	74.5	74.7	74.4	76.1	77.7
18-Feb	74.3	73.8	73.7	73.4	73.1	72.6	72.1	72.0	72.1	70.6	68.7	67.0	65.9	66.3	64.1	64.9	66.5	69.3	72.1	72.1	71.3	71.9	71.1	70.9	70.4	74.3
19-Feb	70.6	70.6	71.1	71.1	70.7	71.0	71.3	71.5	71.7	71.2	68.1	64.3	62.6	62.0	61.7	60.9	61.5	68.1	70.6	71.8	71.9	71.4	70.3	71.0	68.6	71.9
20-Feb	71.2	70.5	71.7	72.6	72.4	72.6	73.2	74.5	72.7	67.4	62.5	56.2	51.1	53.8	61.6	65.7	69.3	77.3	79.7	74.5	75.2	77.3	77.5	77.4	69.9	79.7
21-Feb	77.6	79.1	78.2	78.7	79.6	80.7	80.2	79.4	78.2	74.7	71.0	68.8	67.1	70.3	72.6	74.0	76.5	79.5	80.9	81.7	82.1	81.8	81.5	81.7	77.3	82.1
22-Feb	81.8	81.6	81.3	81.1	79.7	79.1	79.2	78.8	78.2	75.1	71.7	69.3	70.1	70.7	71.6	73.8	77.7	77.5	78.5	78.1	77.7	78.2	79.4	80.3	77.1	81.8
23-Feb	80.7	80.8	79.5	78.5	78.6	79.8	79.9	80.3	79.6	73.8	68.0	67.0	66.6	67.8	67.6	67.2	71.0	76.1	80.1	79.5	80.1	80.6	81.1	81.7	76.1	81.7
24-Feb	81.8	82.1	82.4	81.1	81.4	81.4	81.6	81.4	79.8	75.2	70.7	64.0	59.3	60.3	58.8	60.5	61.5	67.3	72.1	74.8	76.4	77.5	77.6	83.7	73.9	83.7
25-Feb	86.1	86.5	86.8	87.2	87.8	89.2	90.7	91.0	90.2	84.2	74.7	71.9	66.7	66.5	67.7	67.4	71.6	79.1	85.9	90.1	91.0	92.6	94.3	94.3	83.1	94.3
26-Feb	93.6	93.1	92.8	92.8	92.7	92.8	92.5	91.9	91.8	88.7	81.7	83.7	95.3	88.3	83.7	80.9	80.9	80.6	81.5	80.0	78.1	75.7	76.6	76.7	86.1	95.3
27-Feb	76.5	75.5	74.9	74.6	74.9	75.7	75.8	75.4	74.4	68.2	66.6	64.7	62.6	63.6	59.7	62.0	63.8	70.2	76.2	76.9	76.0	75.3	74.1	74.7	71.3	76.9
28-Feb	73.5	73.0	73.0	73.0	72.3	73.9	74.7	74.7	75.1	72.8	66.7	62.4	61.1	59.2	56.8	55.3	56.2	60.1	65.7	65.2	68.8	72.0	74.8	77.6	68.2	77.6
	79.7	79.7	79.7	79.9	80.1	79.9	80.6	80.9	80.9	78.6	75.6	73.2	71.1	70.1	69.7	70.0	71.8	75.2	77.4	77.4	77.9	78.3	78.5	79.1	Diurnal Average	
	97.0	97.2	97.0	96.7	96.4	95.6	96.1	96.2	96.5	96.9	97.2	97.3	96.3	94.8	95.3	95.8	96.2	96.4	96.4	96.4	96.8	96.7	96.4	96.9	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Jackfish 2/3 - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	9	1.34	1.34
40 - 60	66	9.82	11.16
60 - 80	311	46.28	57.44
80 - 100	286	42.56	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Jackfish 2/3 - February 2026

Maximum Speed: 16 km/h on Feb 17 13:00

Maximum Daily Speed Average: 12.5 km/h on Feb 17

Minimum Speed Value: 1 km/h on Feb 20 14:00

Minimum Daily Speed Average: 0.2 km/h on Feb 7

Maximum Diurnal Speed Average: 4.2 km/h at hour 12

Minimum Diurnal Speed Average: 1.0 km/h at hour 18

Monthly Average Velocity: 2.5 km/h 246.5 deg

Percentiles: P_1 = 1 P_{10} = 3 Q_1 = 5 Median = 7 Q_3 = 10 P_{90} = 12 P_{99} = 15

Hours in Service:	672
Hours of Data:	651
Hours of Missing Data:	21
Percent Operational Time:	96.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE3	ENE4	ESE3	ESE3	ESE2	SE3	SSE4	SE4	SE4	SSE5	SSE6	S5	SSE6	SSE6	SSE6	SSE6	SE5	SSE6	SSE6	S5	S6	S7	S6	S5	SSE4.3	S7
2-Feb	S6	S5	S6	S6	SSW6	S8	S7	SSW7	SSW9	SSW9	SSW9	SW10	SW9	SW9	WSW10	SW10	SW10	SW8	SW7	W3	W4	W5	NW4	NW4	SW6.2	SW10
3-Feb	NW4	NNW4	NNW4	NNW5	NNW4	NNW4	N4	NNE4	NNW3	NNW3	W5	WSW4	SW5	SW6	SW6	SSW6	SSW7	SSW8	SSW8	SSW9	SSW8	SSW9	SSW9	S10	SW3.1	S10
4-Feb	S11	SSW11	SSW10	SSW12	SSW13	SSW13	SW12	SW13	WSW15	WSW15	WSW14	W13	WSW13	WSW14	W14	W9	W7	W6	W5	WSW8	WSW8	W10	W9	WSW10	WSW9.9	WSW15
5-Feb	SW10	WSW10	SW7	WSW7	W10	W12	WNW13	WNW14	NNW10	NNW11	NNW10	NW10	NNW9	NNW8	NNW6	NNW6	NNW5	NNE5	NE3	NE3	ENE4	ENE5	ENE5	NE5	NW4.6	WNW14
6-Feb	ENE3	ESE4	ESE6	ESE5	E4	ESE5	SE5	SSE6	SE5	SE5	SSE6	SSE5	SSW7	S5	S4	SE3	ESE4	S4	S9	SSW10	SSW11	SSW12	SSW10	SSW9	SSE4.8	SSW12
7-Feb	W5	SW10	SW11	SW8	SW7	WSW7	SW5	SW5	SW3	UO	NE3	NE3	NE4	NE5	ENE3	NE4	NE4	NE5	NE5	ENE6	ENE5	ENE4	ENE3	NE3	SSE0.2	SW11
8-Feb	NE3	NE3	NNE3	ENE3	ENE2	ENE2	S1	WSW2	WSW4	WSW7	W7	WNW7	WNW7	WNW7	WNW8	WNW8	WNW8	NW5	NNW5	NNW4	NNW3	NNW4	NW4	NW5	WNW3.3	WNW8
9-Feb	NW5	NW3	W3	WSW4	SW4	WSW4	SW7	SSW6	SW8	SW6	WSW4	WSW3	NNW2	NE3	NE5	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	SW8
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	SSW5	SW7	SW7	SSW6	SSW7	SSW6	S6	S6	S7	SSW7	SSW8	SSW8	SSW9	----	SSW9
11-Feb	SSW8	SSW8	SSW8	SW8	SW9	SW9	SW9	SW9	SW9	SW10	WSW11	WSW12	WSW14	WSW12	WSW13	WSW13	WSW9	SW7	SW9	SW9	SW10	SW10	SW10	SW10	SW9.5	WSW14
12-Feb	WSW11	WSW11	WSW10	WSW11	WSW11	WSW11	WSW11	WSW12	W11	WSW11	WSW12	WSW13	WSW12	SW12	SW11	SW10	SW10	SW10	SSW9	SSW10	SW13	SW15	WSW14	WSW13	WSW11.1	SW15
13-Feb	WSW12	WSW13	WSW14	W12	W12	W11	W12	WSW12	WSW13	WSW14	W13	W13	W11	W11	W12	W10	WSW9	SW7	SSW6	SW7	SW7	SW8	WSW8	SW8	WSW10.3	WSW14
14-Feb	SSW7	SW8	SW8	SW8	SSW9	SW8	SSW8	SSW8	SW8	SW7	SW9	WSW10	W9	W9	W9	WSW10	W6	W5	WSW6	WSW8	WSW9	W7	W7	W5	WSW7.1	WSW10
15-Feb	WSW7	SW8	WSW8	WSW6	W5	WSW3	W4	W4	WNW5	NNW5	NNW5	N3	N5	N5	N5	NNE6	NNE5	NE7	NE7	NE6	NE5	NE6	NE7	NE5	NNW2.3	SW8
16-Feb	NE4	ENE3	ENE4	NE3	NE3	ENE3	ENE3	E1	ENE4	NE4	ENE5	ENE6	ENE7	ENE8	NE7	NE7	NE9	NE9	ENE8	ENE7	ENE7	NE9	NE11	NE12	ENE6.0	NE12
17-Feb	NE10	NE10	NE11	NE13	NE12	NE14	NE14	NE14	NE13	NE15	NE15	NNE15	NE16	NNE13	NNE13	NNE12	NNE11	NNE13	NNE13	NNE12	NNE13	NNE11	NNE11	NNE10	NNE12.5	NE16
18-Feb	N10	NNE10	NNE10	NNE9	N9	N9	N8	N9	NNE7	N8	N8	N8	NNW6	NNW6	NNW6	NNW6	NNW5	NNW3	NNW2	NW1	NNW1	W2	WSW3	WSW6	N5.6	NNE10
19-Feb	WSW7	WSW8	WSW7	SW7	WSW7	SW10	SW8	SW6	SW7	WSW10	WSW12	WSW12	WSW11	WSW12	WSW10	WSW10	WSW9	SW6	SW7	SW8	SW9	SSW10	SW11	SW10	SW8.6	WSW12
20-Feb	SSW9	SSW11	SSW10	SSW9	SSW9	SSW10	SSW8	SSW10	SSW7	SW5	WSW6	SW5	WSW4	WSW1	NE4	ENE4	NE4	NE4	ENE4	ENE4	NE5	NE5	NNE4	N2	SSW2.6	SSW11
21-Feb	NNE4	NE4	NE6	NE5	NE6	NNE5	NNE3	NNE5	NNE7	NE9	NNE9	NE8	NE9	NNE7	NNE7	NE7	NE8	NE6	NE5	NE7	ENE9	ENE6	ENE5	E6	NE6.2	NE9
22-Feb	E6	E5	E6	ESE6	SE6	SE5	SE4	ESE5	ESE5	SE7	SE6	SE7	ESE7	SE8	ESE7	ESE8	ESE9	ESE8	ESE8	ESE6	ESE6	SE5	SE4	ESE4	ESE5.9	ESE9
23-Feb	ESE3	SSE3	SSW3	SSW4	SSW4	SW3	SSW4	SSW5	WSW6	WSW7	WNW5	WSW5	W6	W6	W7	NW6	NW4	WNW4	WNW4	WNW5	NW4	WNW3	W3	W5	W3.4	WSW7
24-Feb	W6	W6	W7	W6	W7	W7	W7	WSW7	WSW10	WSW11	WSW10	WSW10	WSW11	WSW12	WSW12	WSW10	WSW7	SW6	SSW5	S5	S6	S6	S6	S7	WSW6.9	WSW12
25-Feb	S8	S8	S8	S7	SSW8	SSW8	W9	WNW7	WNW9	NW5	W7	W8	W9	WSW10	WSW11	WSW9	WSW7	SW3	SSW2	W1	ENE1	ENE4	ENE5	NE5	WSW4.0	WSW11
26-Feb	NE5	NE5	ENE5	ENE3	NE4	NE3	SSE2	N2	W4	W2	WSW15	WSW15	W13	WNW14	WNW11	NW10	NW9	NW10	NW10	NNW10	NNW11	NNW8	NNW8	NNW8	NW5.4	WSW15
27-Feb	NNW7	NNW6	NNW7	NNW7	NNW4	NW5	NW3	NW3	NNW5	NNE5	N5	N4	N5	N4	N5	NNE5	NE4	ENE4	ENE4	NE4	NE4	NE5	ENE1	NNE2	N3.8	NNW7
28-Feb	ESE1	S2	SSW3	SSW5	SSW6	SSW7	SSW8	SSW7	SW8	SW8	SW10	SW11	SW11	SW11	SW12	SW11	SW13	SSW10	SSW9	SW12	SW12	SW12	SSW12	SW11	SW8.7	SSW13
	WSW1.7	SW2.3	SW2.4	SW2.4	WSW2.6	WSW3.1	SW3.3	WSW2.9	WSW3.3	WSW3.4	W4.0	W4.2	W4.1	W3.9	W3.7	W2.9	W2.0	WSW1.0	SSW1.3	SW1.5	SW1.7	SW2.0	SW2.0	SW2.0	Diurnal Average	
	WSW12	WSW13	WSW14	NE13	SSW13	NE14	NE14	NE14	WSW15	NE15	NE15	NNE15	NE16	WNW14	W14	WSW13	SSW13	NNE13	NNE13	SW12	SW13	SW15	WSW14	WSW13	Diurnal Maximum	

UO - Unstable Operation

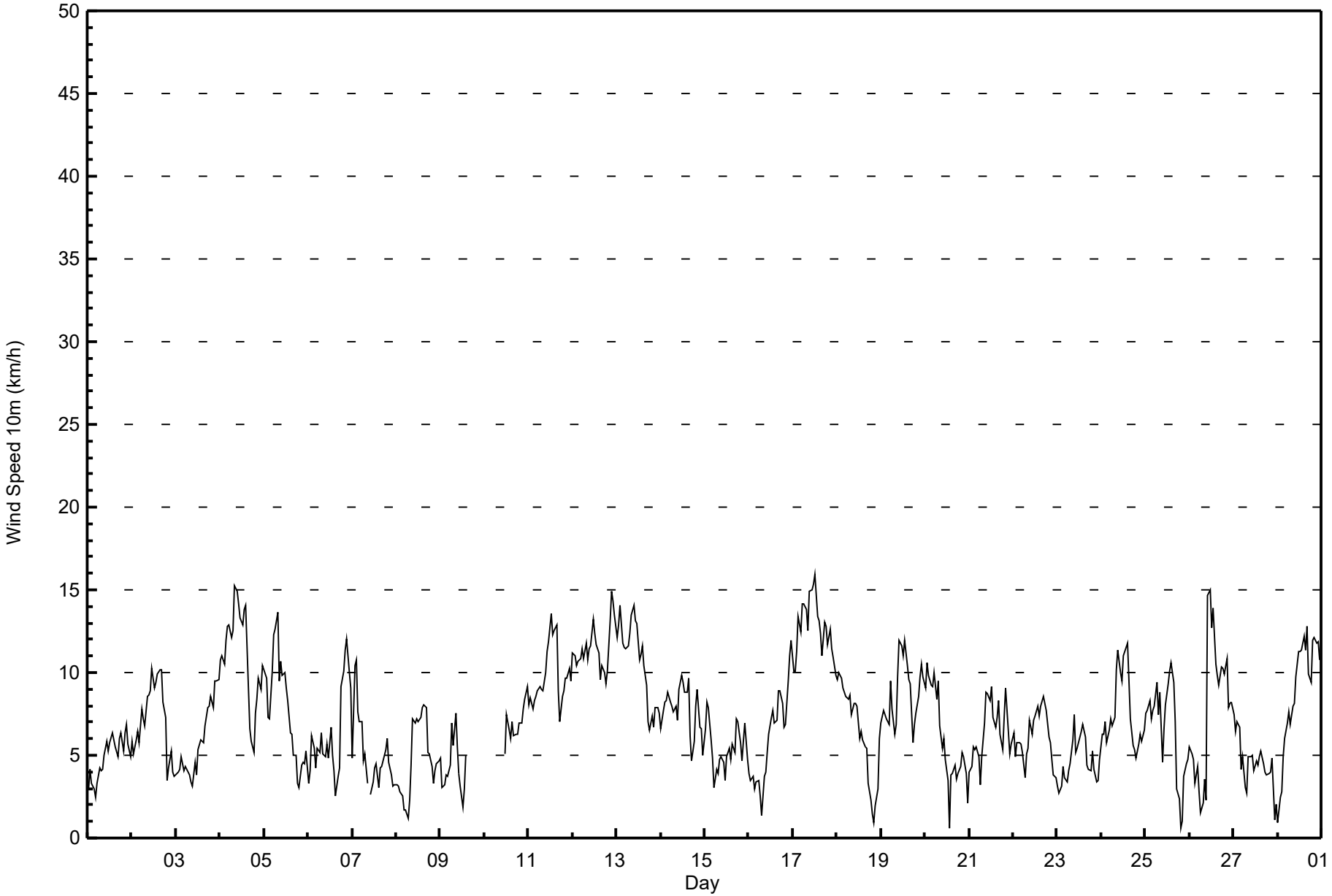
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Jackfish 2/3 - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	227	34.87	34.87
6 - 11	349	53.61	88.48
12 - 19	75	11.52	100.00
20 - 28	0	0.00	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 651

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Jackfish 2/3 - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	11	12	39	31	3	12	11	6	10	10	9	12	17	8	13	23	227
6 - 11	8	14	22	9	3	10	5	9	21	57	71	53	32	9	6	20	349
12 - 19	0	8	10	0	0	0	0	0	0	6	9	29	10	3	0	0	75
20 - 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	19	34	71	40	6	22	16	15	31	73	89	94	59	20	19	43	651

Total Number of Valid Hours: 651

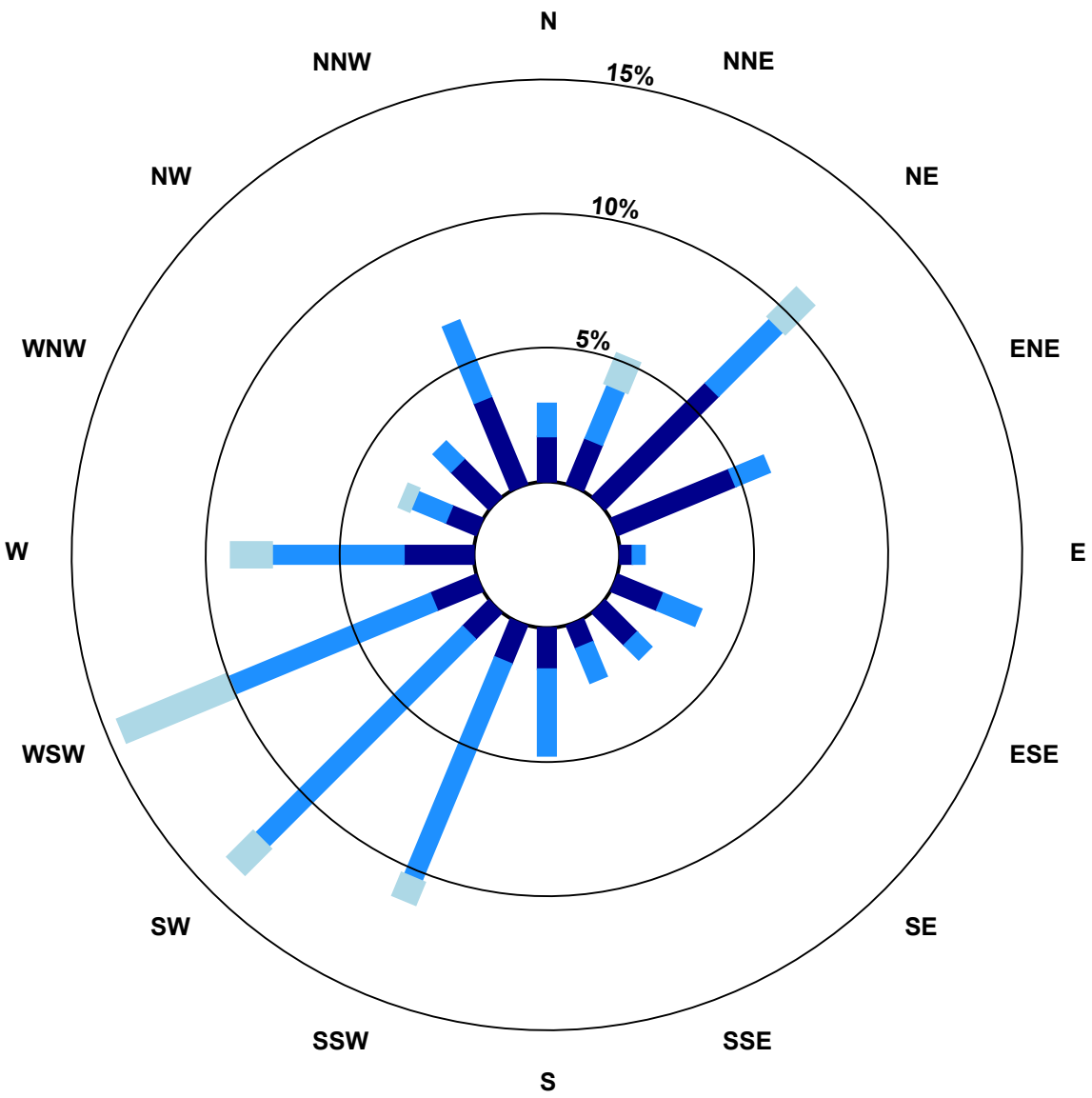
Total Number of Hours: 672

Wood Buffalo Environmental Association

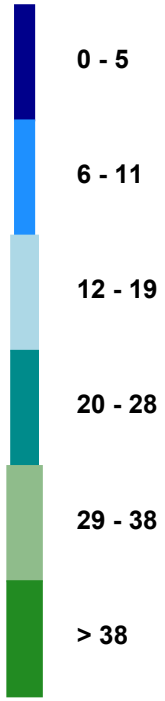
Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Jackfish 2/3



Classes (km/h)



Total Number of Valid Hours: 651

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Jackfish 2/3 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 6 km/h on Feb 5 08:00

Minimum Value: 0 km/h on Feb 28 02:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 5

Hours in Service:	672
Hours of Data:	651
Hours of Missing Data:	21
Hours of Calibration:	0
Percent Operational Time:	96.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3
2-Feb	2	2	2	2	2	2	2	2	3	2	2	3	2	3	3	3	3	2	2	2	2	2	2	1	3
3-Feb	1	2	2	2	2	2	1	1	1	1	2	1	2	2	2	2	2	3	3	3	3	3	3	3	3
4-Feb	3	4	3	4	3	3	3	4	4	4	3	4	3	3	4	3	2	2	2	2	2	3	3	3	4
5-Feb	3	3	2	2	4	5	5	6	5	5	4	4	4	4	2	3	2	2	1	1	1	1	1	2	6
6-Feb	1	1	2	2	1	2	2	3	2	2	2	3	2	2	2	1	1	2	3	3	3	2	2	2	3
7-Feb	3	3	3	2	1	1	1	1	1	UO	1	1	1	1	1	1	1	1	1	2	1	1	1	1	3
8-Feb	1	1	1	1	1	1	1	1	1	2	2	3	3	3	3	3	3	2	2	2	1	2	2	2	3
9-Feb	2	1	1	1	1	1	2	2	2	2	1	2	1	2	1	UO	UO	UO	UO	UO	UO	UO	UO	UO	2
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11-Feb	2	2	2	2	2	2	2	2	2	3	3	4	4	4	3	4	3	2	2	2	2	2	3	3	4
12-Feb	3	3	3	3	3	3	3	3	3	3	4	3	4	4	3	3	4	3	3	3	4	4	4	3	4
13-Feb	3	3	4	4	3	3	3	3	3	4	4	5	4	4	4	4	3	2	2	2	1	2	1	2	5
14-Feb	1	2	2	2	2	2	2	1	2	2	3	2	4	3	3	3	3	2	2	2	2	2	2	2	4
15-Feb	2	2	2	2	1	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2
16-Feb	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	2	2	2	3	4	4	4
17-Feb	3	3	3	4	4	5	5	5	5	5	5	5	6	5	5	5	5	5	5	5	5	5	4	4	6
18-Feb	4	4	4	3	3	4	4	4	3	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	4
19-Feb	1	2	2	2	2	2	2	2	2	3	4	3	3	4	3	3	2	2	2	2	2	2	2	2	4
20-Feb	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2
21-Feb	1	1	2	2	2	2	1	2	3	3	3	3	3	2	3	3	3	2	2	3	3	2	2	2	3
22-Feb	2	2	2	2	2	2	1	2	2	3	2	3	3	3	3	3	3	3	3	2	2	2	2	1	3
23-Feb	1	1	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	2	2	1	1	2	2
24-Feb	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	2	2	1	1	1	1	2	2	3
25-Feb	2	2	3	2	2	2	3	3	4	2	3	3	3	3	3	3	2	1	1	1	1	1	1	1	4
26-Feb	2	1	2	1	1	1	1	1	2	2	5	5	5	6	5	4	4	5	4	4	5	4	4	4	6
27-Feb	3	3	2	3	2	2	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	3
28-Feb	1	0	0	1	1	2	2	2	2	2	3	3	4	4	4	4	4	3	3	3	3	3	3	2	4
	4	4	4	4	4	5	5	6	5	5	5	5	6	6	5	5	5	5	5	5	5	5	4	4	
	Diurnal Maximum																								

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Jackfish 2/3 - February 2026

Direction of Maximum Speed: 34 deg on Feb 17 13:00
Direction of Maximum Daily Speed Average: 32.1 deg on Feb 17

Direction of Minimum Speed: 258 deg on Feb 20 14:00
Direction of Minimum Daily Speed Average: 0.2 deg on Feb 7

Monthly Average Direction: 246.5 deg

Hours in Service:	672
Hours of Data:	651
Hours of Missing Data:	21
Percent Operational Time:	96.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	42	75	107	107	119	146	160	129	132	155	165	170	167	163	155	150	141	152	163	174	189	181	189	180	155.2
2-Feb	181	185	183	187	193	185	189	199	200	209	213	218	225	233	239	235	232	227	226	261	271	268	326	307	218.7
3-Feb	307	329	328	341	330	345	357	21	334	331	275	255	231	216	221	213	208	210	201	199	192	194	192	190	230.8
4-Feb	186	194	207	203	208	209	216	230	245	252	257	261	248	250	260	275	278	277	265	245	255	260	260	237	238.9
5-Feb	233	239	232	239	267	273	287	303	334	333	335	326	328	336	333	344	348	33	56	45	67	65	76	52	312.5
6-Feb	59	115	104	111	97	121	141	153	131	142	147	157	197	177	171	135	114	171	189	197	202	207	209	212	167.2
7-Feb	276	215	225	222	232	243	227	236	214	UO	48	52	45	51	63	55	56	47	54	59	59	57	60	54	164.7
8-Feb	54	44	22	63	69	62	169	244	239	241	260	285	294	299	288	288	295	319	330	332	333	343	321	325	303.0
9-Feb	323	315	278	244	228	252	223	203	215	224	253	258	337	46	34	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	202	215	219	196	205	194	184	186	187	192	193	201	203	--
11-Feb	210	209	212	226	224	222	218	222	226	235	241	242	247	243	245	251	242	216	223	229	231	233	229	228	231.2
12-Feb	240	242	242	239	257	250	253	250	260	256	257	250	244	235	235	223	223	220	208	209	223	227	247	246	239.7
13-Feb	240	243	253	261	260	263	260	256	249	254	262	268	268	262	271	259	253	230	211	227	219	227	239	227	251.5
14-Feb	209	227	231	217	209	221	205	194	228	218	234	253	274	276	262	253	273	281	242	249	253	266	261	264	241.1
15-Feb	245	234	239	251	273	255	267	265	297	335	345	352	10	1	8	16	24	39	51	45	47	55	54	45	347.1
16-Feb	39	70	60	46	47	73	68	80	64	56	64	65	64	59	55	56	51	56	60	70	57	54	53	51	57.6
17-Feb	51	45	41	46	37	38	41	39	36	36	38	33	34	31	29	28	22	24	28	22	18	15	16	13	32.1
18-Feb	5	16	20	15	6	5	4	11	12	1	8	8	347	346	330	338	333	342	344	325	336	268	244	247	357.4
19-Feb	246	242	239	231	237	232	229	229	234	242	255	249	245	244	251	245	250	230	222	218	217	213	218	214	235.6
20-Feb	210	209	205	209	210	212	198	196	193	226	237	226	247	258	34	57	49	38	61	58	49	41	32	9	201.9
21-Feb	33	34	40	36	34	31	25	33	33	37	29	36	42	27	27	36	52	53	45	50	61	68	62	82	42.2
22-Feb	79	93	86	114	125	142	133	113	113	143	138	128	118	132	122	111	108	114	110	118	119	143	133	113	118.3
23-Feb	113	151	195	208	205	218	212	197	239	256	282	248	267	277	278	319	318	299	295	292	304	289	275	266	261.9
24-Feb	264	265	260	267	265	266	267	251	247	253	249	247	252	244	243	255	250	230	205	189	191	183	181	179	242.3
25-Feb	173	169	173	185	196	213	262	288	296	308	269	262	260	250	252	242	242	220	201	269	76	64	63	55	237.1
26-Feb	48	45	66	72	45	45	163	1	269	269	253	256	270	291	298	325	317	308	320	331	332	328	328	339	311.7
27-Feb	337	340	335	335	329	322	317	321	346	20	6	352	349	5	1	25	52	68	67	56	39	45	64	33	2.8
28-Feb	116	184	195	196	198	206	206	213	221	227	228	229	228	227	218	215	214	213	209	218	218	216	212	215	215.9
	237.9	223.4	226.9	224.6	236.7	236.8	235.9	239.9	251.0	258.8	263.2	260.3	264.1	264.0	266.5	270.1	267.8	242.8	204.6	220.1	225.2	223.7	233.4	231.1	
	Diurnal Average																								

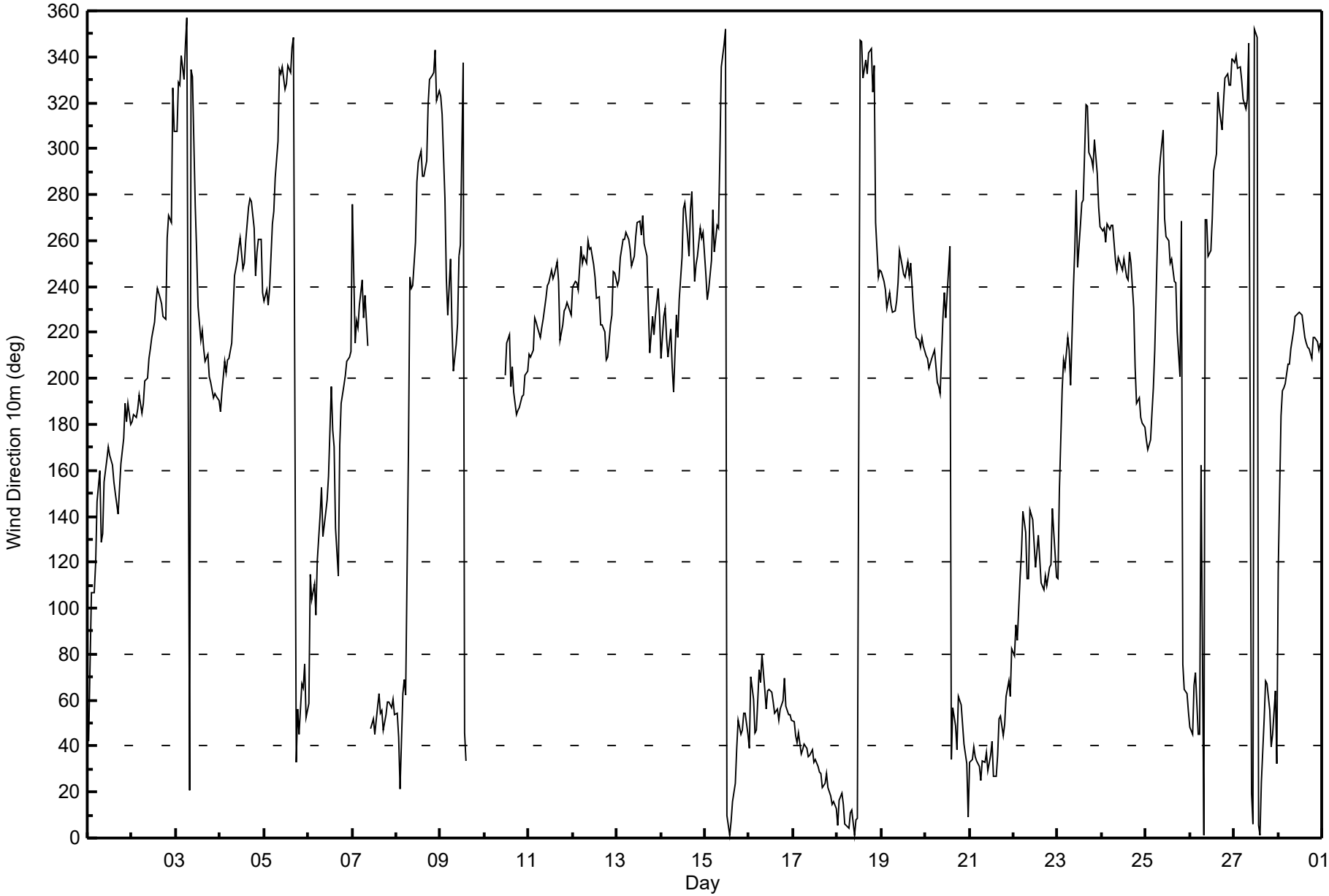
UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Jackfish 2/3 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Jackfish 2/3 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 105 deg on Feb 20 14:00

Minimum Value: 9 deg on Feb 28 02:00

Percentiles: P_1 = 13 P_{10} = 17 Q_1 = 20 Median = 27 Q_3 = 40 P_{90} = 46 P_{99} = 78

Hours in Service:	672
Hours of Data:	651
Hours of Missing Data:	21
Hours of Calibration:	0
Percent Operational Time:	96.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	36	26	42	33	45	42	35	41	41	47	46	48	46	42	38	46	43	48	43	52	37	33	36	42	52
2-Feb	38	41	31	29	32	23	27	28	25	23	20	21	22	21	21	21	20	18	17	63	67	29	39	42	67
3-Feb	34	41	42	39	41	47	40	42	54	46	39	44	30	33	34	32	32	26	28	29	38	29	30	29	54
4-Feb	29	28	27	25	20	18	21	22	16	17	17	22	19	18	23	34	30	26	19	19	23	19	21	18	34
5-Feb	19	19	19	26	33	31	35	40	43	46	40	38	45	43	44	40	42	36	29	33	26	23	28	21	46
6-Feb	26	40	25	33	36	41	46	41	48	42	39	57	43	43	46	48	25	42	22	20	18	15	18	22	57
7-Feb	54	21	19	18	16	14	21	16	26	UO	45	41	30	25	39	27	26	25	23	22	25	24	24	26	54
8-Feb	23	31	50	34	54	62	80	58	19	17	31	37	41	45	41	40	40	44	45	52	48	43	45	53	80
9-Feb	45	53	40	22	28	19	18	17	17	29	31	64	75	76	34	UO	UO	UO	UO	UO	UO	UO	UO	UO	76
10-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	25	26	25	23	23	26	22	20	21	20	16	15	19	26
11-Feb	20	20	19	18	18	19	19	19	19	21	20	21	20	23	20	20	21	20	21	19	18	19	20	21	23
12-Feb	20	19	19	21	20	17	18	16	23	21	24	19	22	26	22	23	26	25	25	24	24	23	19	19	26
13-Feb	18	18	18	23	24	25	21	16	17	18	27	31	33	32	32	31	18	19	21	18	18	17	14	19	33
14-Feb	18	18	17	20	17	17	16	13	17	16	20	20	37	33	29	25	34	29	22	14	14	20	23	23	37
15-Feb	20	13	15	25	26	18	23	21	38	39	52	90	48	44	47	39	38	30	24	23	26	21	22	23	90
16-Feb	27	23	17	18	26	20	42	36	20	24	27	25	31	32	30	29	24	24	24	25	27	23	24	26	42
17-Feb	25	27	27	26	28	29	29	29	33	31	31	32	33	37	38	37	41	40	36	41	43	46	42	43	46
18-Feb	43	42	41	43	43	42	42	42	44	44	45	46	48	46	47	49	43	47	69	90	67	35	18	12	90
19-Feb	13	14	16	17	19	17	16	19	20	20	22	22	27	24	25	24	19	23	18	17	16	14	15	15	27
20-Feb	14	14	14	15	16	15	15	12	16	20	27	43	52	105	41	39	22	18	17	15	17	19	26	54	105
21-Feb	30	22	27	26	27	27	32	26	33	32	38	41	38	42	42	35	27	27	25	24	28	28	30	28	42
22-Feb	32	34	28	33	43	40	48	36	38	37	48	43	37	37	41	32	30	34	31	35	36	43	50	36	50
23-Feb	37	46	47	27	31	34	18	17	25	24	46	35	39	39	41	39	53	34	36	34	35	34	43	30	53
24-Feb	22	22	20	29	23	28	27	18	17	19	22	27	22	24	23	27	24	23	22	20	17	15	20	20	29
25-Feb	25	27	25	32	19	22	28	36	37	41	39	31	31	25	22	22	19	25	20	69	79	22	22	26	79
26-Feb	22	23	28	49	36	52	78	65	42	80	23	23	31	38	39	43	42	41	40	42	41	50	45	50	80
27-Feb	40	38	33	31	42	34	57	59	44	48	50	73	61	61	57	46	39	23	17	17	16	12	80	34	80
28-Feb	44	9	10	13	12	18	17	17	16	22	26	25	28	30	27	29	27	25	24	22	20	19	18	16	44
	54	53	50	49	54	62	80	65	54	80	52	90	75	105	57	49	53	48	69	90	79	50	80	54	
	Diurnal Maximum																								

UO - Unstable Operation

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS29
SURMONT 2
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - SURMONT2 (AMS29)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	640	32	32	100	6.2	0	1.6	0
H2S (ppb) Average	637	34	35	99.85	0.6	0	0.2	0
THC(ppm) Average	641	31	31	100	2.6	-	2.3	-
NO2 (ppb) Average	637	34	35	99.85	25.4	0	8	-
NO (ppb) Average	637	34	35	99.85	7.9	-	1.3	-
NOX (ppb) Average	637	34	35	99.85	27.3	-	9.3	-
PM2.5 (ug/m3) Average	669	3	3	100	142.9	4	19.8	0
Temperature 2 m (C) Average	672	0	0	100	8.6	-	3.3	-
Relative Humidity (%) Average	672	0	0	100	100.1	-	94	-
Wind Speed 10 m (km/h) Average	634	0	38	94.35	15	-	10	-
Wind Direction 10 m (deg) Average	634	0	38	94.35	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - SURMONT 2 (AMS29)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	640	0.58	0.8	-	0	0.1	0.2	0.3	0.7	1.4	6.2
H2S (ppb) Average	637	0.1	0.1	-	0	0	0	0.1	0.1	0.2	0.6
THC (ppm) Average	641	2.25	0.1	-	2.1	2.2	2.2	2.2	2.3	2.3	2.6
NO2 (ppb) Average	637	3.54	3.9	-	0.2	0.6	1.1	2.1	4.4	8.8	25.4
NO (ppb) Average	637	0.35	0.8	-	0	0	0	0	0.3	1.1	7.9
NOX (ppb) Average	637	3.89	4.3	-	0.2	0.6	1.2	2.4	4.9	9.1	27.3
PM2.5 (ug/m3) Average	669	4.52	10.2	-	0.3	1.3	1.9	2.8	4.3	6.6	142.9
Temperature 2 m (C) Average	672	-13.13	10.4	-	-39.4	-27.8	-20.7	-12	-5.2	0.3	8.6
Relative Humidity (%) Average	672	77.68	13.6	-	34.3	58.1	70.2	78.8	89.9	93.1	100.1
Wind Speed 10 m (km/h) Average	634	5.5	3	-	0	2	3	5	7	10	15
Wind Direction 10 m (deg) Average	634	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - SURMONT 2 (AMS29)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
H2S, NO2	03 Feb 2026 12:00	03 Feb 2026 12:00	1	Maintenance - sample manifold cleaned
	06 Feb 2026 21:00	06 Feb 2026 21:00	38	Flat line in sensor output signal - Sensor frozen

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Surmont 2 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 6.2 ppb on Feb 3 02:00 Maximum Daily Average: 1.6 ppb on Feb 15

Minimum Value: 0.0 ppb on Feb 1 21:00 Minimum Daily Average: 0.1 ppb on Feb 23

Maximum Diurnal Average: 0.9 ppb at hour 21 Minimum Diurnal Average: 0.3 ppb at hour 3

Monthly Average: 0.58 ppb Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.2 Median = 0.3 Q_3 = 0.7 P_{90} = 1.4 P_{99} = 4.1

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.6	0.8	0.8	0.7	0.5	0.5	0.8	0.7	0.4	0.3	0.1	0.1	0.0	0.1	0.4	0.6	0.2	0.9	0.0	0.0	0.0	0.0	0.0	0.4	0.9
2-Feb	0.0	Z	0.0	0.0	0.0	0.5	0.5	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.2	0.3	0.2	0.1	0.1	0.2	0.3	0.7
3-Feb	3.0	6.2	Z	3.2	2.3	4.4	1.8	1.9	1.3	1.4	1.1	C	C	C	C	0.6	0.3	0.2	0.3	0.4	0.4	0.4	0.4	0.4	1.6	6.2
4-Feb	0.4	0.4	0.3	Z	2.0	2.4	1.2	0.5	0.4	0.4	0.4	0.3	0.2	0.4	0.6	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.7	0.5	0.6	2.4
5-Feb	0.9	0.5	0.2	0.0	Z	0.0	0.3	0.4	0.2	0.4	0.3	0.4	0.4	1.3	2.6	2.1	1.7	2.0	1.6	1.7	1.4	1.4	2.3	1.5	1.0	2.6
6-Feb	1.1	0.8	0.8	0.9	1.6	Z	0.3	1.1	1.4	0.2	0.1	0.5	1.0	0.8	0.5	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.6	1.6
7-Feb	Z	0.1	0.2	0.2	0.1	0.0	0.4	0.8	1.5	0.9	1.0	1.1	1.2	0.4	0.6	1.3	0.7	0.3	0.2	0.1	0.0	0.1	0.2	0.4	0.5	1.5
8-Feb	0.1	Z	1.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.1	0.1	0.1	0.1	0.2	0.5	1.1	1.6	2.6	4.1	2.8	1.8	0.8	4.1
9-Feb	1.3	1.9	Z	0.6	2.6	1.9	1.0	1.8	2.0	2.6	2.9	2.0	1.9	1.0	0.8	0.7	0.7	0.5	0.5	1.2	1.2	0.9	0.6	0.6	1.4	2.9
10-Feb	0.6	0.5	0.5	Z	0.9	0.3	0.7	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.1	0.3	0.3	0.1	0.2	0.3	0.9
11-Feb	0.2	0.2	0.1	0.2	Z	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.2	0.3	0.3	0.3	0.5
12-Feb	0.3	0.2	0.2	0.2	0.2	Z	0.2	0.1	0.1	0.2	0.3	1.3	1.7	1.0	1.6	2.4	0.7	0.3	1.0	1.9	4.7	1.3	0.5	0.3	0.9	4.7
13-Feb	Z	0.1	0.3	0.3	0.4	0.4	0.2	0.3	0.4	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.3	0.3	0.2	0.0	0.3	0.2	0.4
14-Feb	0.6	Z	0.5	0.4	0.5	0.2	0.1	0.2	0.1	0.1	0.2	0.5	0.4	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.3	0.1	0.2	0.2	0.6
15-Feb	0.1	0.1	Z	0.0	0.0	1.4	5.6	5.1	2.1	0.7	0.4	0.7	0.5	0.8	2.3	2.2	2.4	1.5	0.5	2.4	4.7	2.5	0.9	0.5	1.6	5.6
16-Feb	0.3	0.2	0.1	Z	0.0	0.0	0.2	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.1	0.2	0.3
17-Feb	0.0	0.0	0.0	0.1	Z	0.7	0.6	0.5	0.1	0.5	0.4	0.5	0.2	0.0	0.2	0.5	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.7
18-Feb	0.0	0.0	0.0	0.4	0.4	Z	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.6	0.7	2.3	2.7	2.2	2.0	1.2	1.3	0.6	0.7	2.7
19-Feb	Z	0.5	0.4	0.8	0.5	0.4	0.5	0.5	0.4	0.3	0.4	0.4	0.7	0.5	0.1	0.2	0.4	0.4	0.4	0.3	0.3	0.2	0.4	0.3	0.4	0.8
20-Feb	0.3	Z	0.3	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.5	1.7	1.2	1.0	1.2	1.0	1.0	0.9	0.3	0.2	0.1	0.1	0.3	0.3	0.5	1.7
21-Feb	0.7	0.6	Z	0.7	0.8	1.7	1.4	1.2	0.6	0.5	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.3	0.1	0.2	0.2	0.5	1.7
22-Feb	0.1	0.1	0.1	Z	0.1	0.0	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.3
23-Feb	0.1	0.2	0.2	0.4	Z	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.4
24-Feb	0.0	0.0	0.2	0.2	0.2	Z	0.3	0.0	0.3	0.4	0.7	0.4	0.2	0.5	0.6	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.7
25-Feb	Z	0.2	0.3	0.3	1.3	1.2	0.9	0.4	0.3	0.4	0.6	0.9	0.8	0.7	1.1	0.4	0.4	0.5	0.6	0.3	0.2	0.1	0.1	0.0	0.5	1.3
26-Feb	0.0	Z	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.5	1.0	0.9	1.2	1.1	1.4	0.9	0.1	0.3	0.9	0.5	0.5	1.4
27-Feb	0.3	0.4	Z	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.1	0.8	1.9	3.2	2.5	3.2	4.1	3.6	1.2	0.8	0.6	0.3	0.3	1.1	4.1
28-Feb	0.1	0.2	0.3	Z	0.2	0.1	0.1	0.2	0.1	0.6	0.8	0.8	0.8	0.5	0.9	0.7	0.6	0.5	0.7	3.2	3.0	1.3	0.9	0.7	0.7	3.2
	0.5	0.6	0.3	0.5	0.6	0.7	0.7	0.6	0.5	0.4	0.5	0.6	0.5	0.5	0.7	0.7	0.6	0.6	0.7	0.7	0.9	0.6	0.5	0.4	Diurnal Average	
	3.0	6.2	1.4	3.2	2.6	4.4	5.6	5.1	2.1	2.6	2.9	2.0	1.9	1.9	3.2	2.5	3.2	4.1	3.6	3.2	4.7	4.1	2.8	1.8	Diurnal Maximum	

Z - zerospan C - Calibration

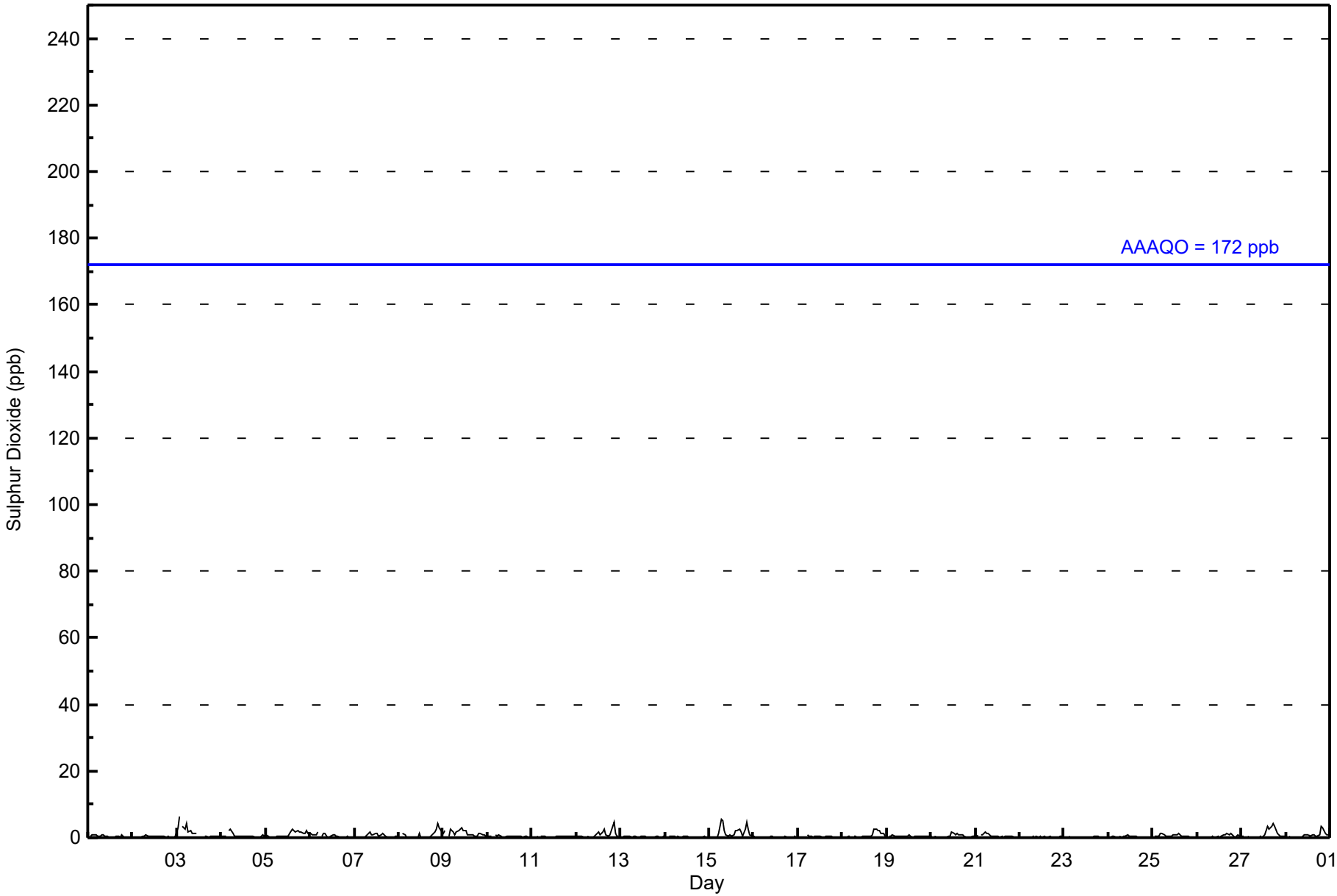
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Surmont 2 - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	640	100.00	100.00
11 - 20	0	0.00	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Surmont 2 - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	32	39	16	21	16	75	56	18	14	8	18	96	65	30	21	81	606
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	32	39	16	21	16	75	56	18	14	8	18	96	65	30	21	81	606

Total Number of Valid Hours: 606

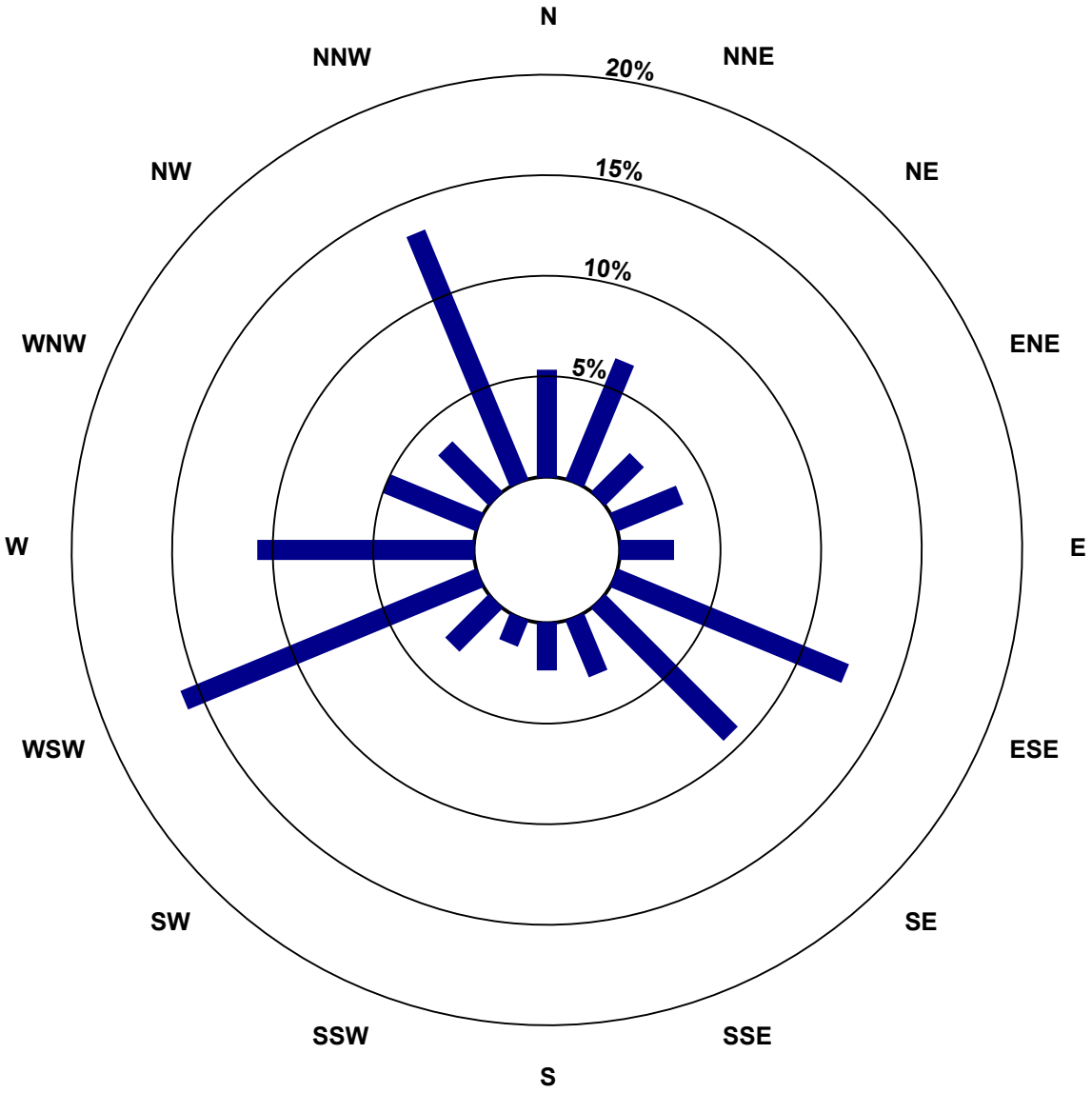
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Surmont 2



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

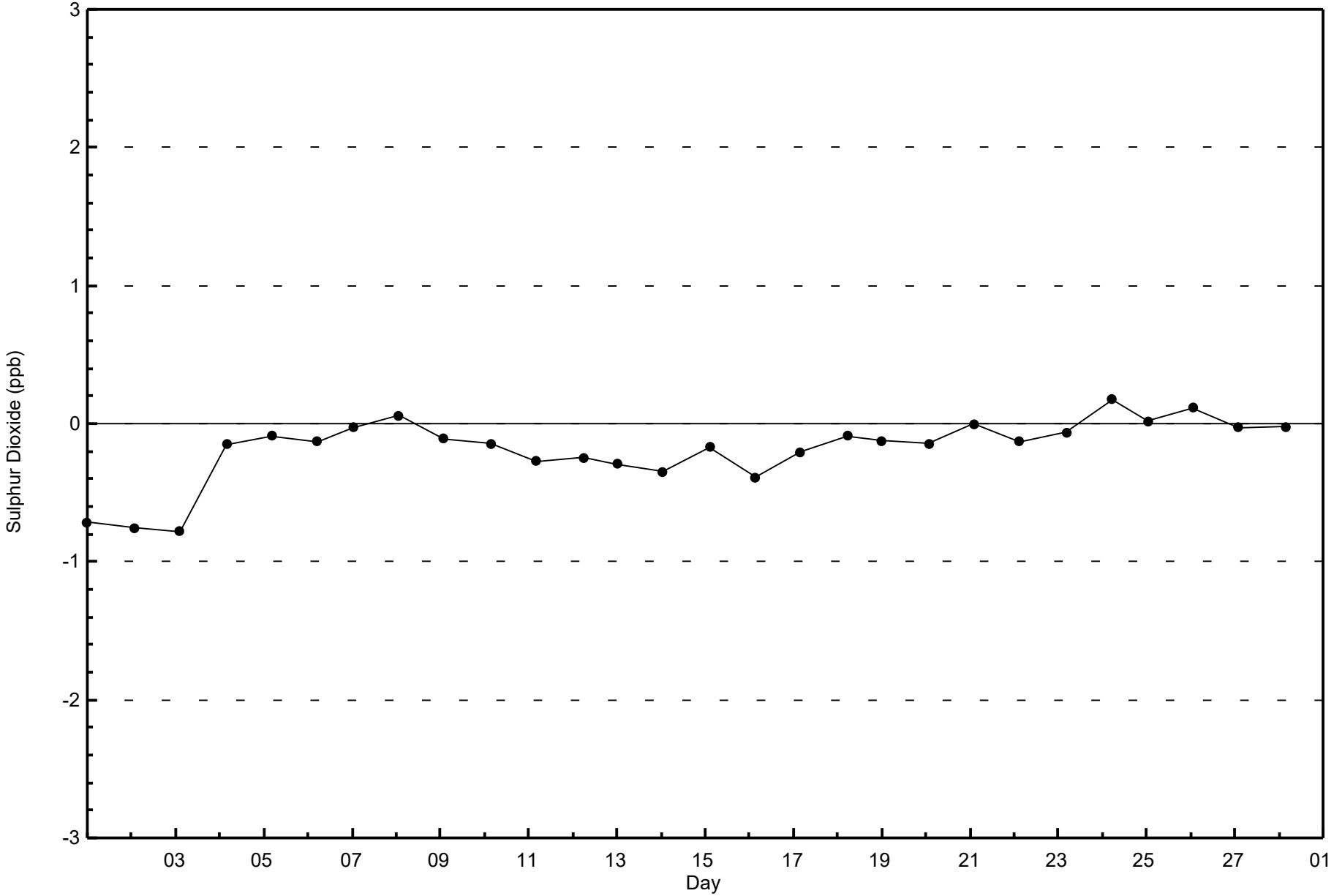
Total Number of Valid Hours: 606

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Surmont 2 - February 2026

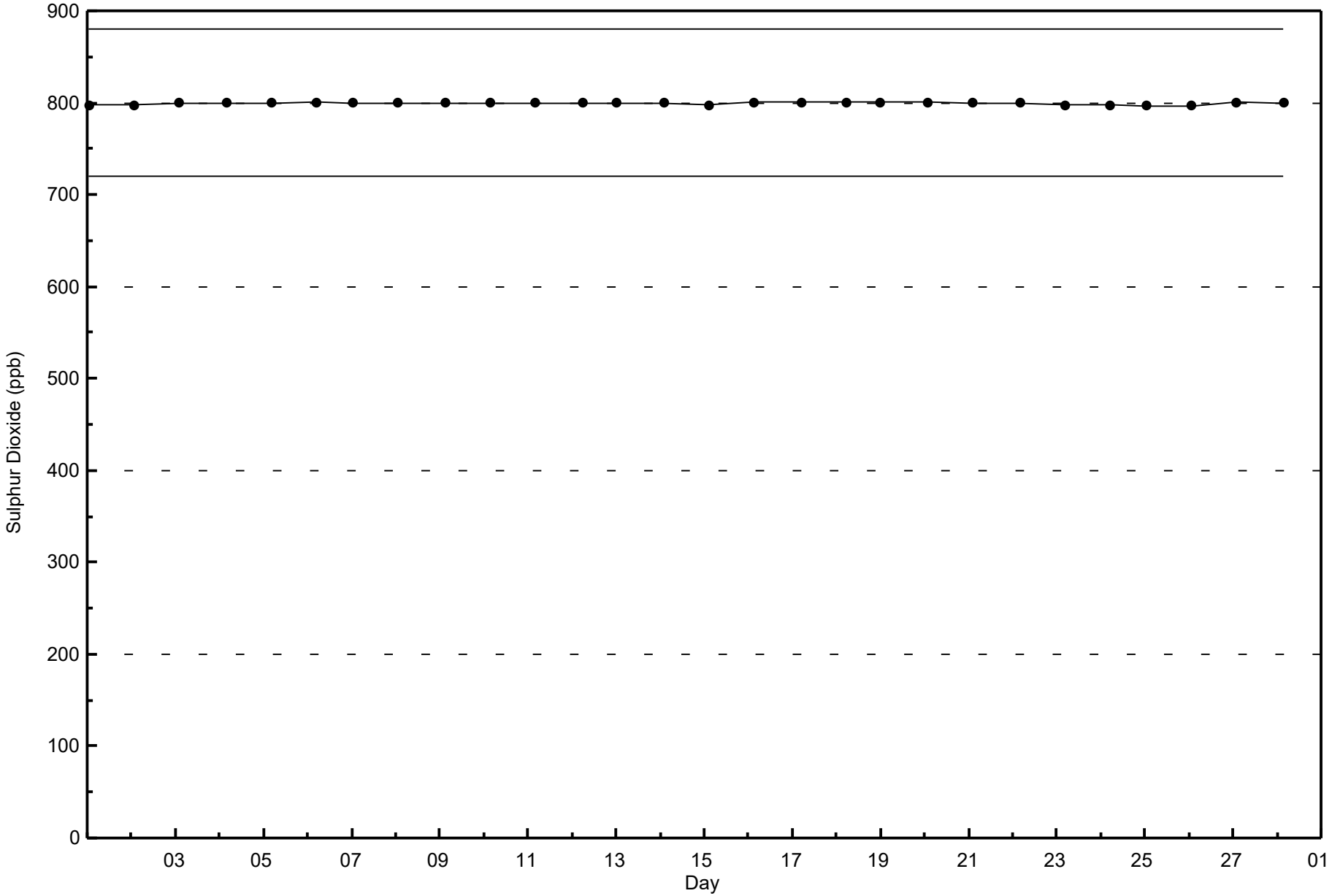


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Surmont 2 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Surmont 2 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 0.6 ppb on Feb 3 03:00 Maximum Daily Average: 0.2 ppb on Feb 9

Minimum Value: 0.0 ppb on Feb 19 14:00 Minimum Daily Average: 0.0 ppb on Feb 22

Maximum Diurnal Average: 0.1 ppb at hour 6 Minimum Diurnal Average: 0.1 ppb at hour 17

Monthly Average: 0.10 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.1 P_{90} = 0.2 P_{99} = 0.4

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
2-Feb	0.0	0.0	Z	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3-Feb	0.3	0.4	0.6	Z	0.3	0.6	0.4	0.3	0.2	0.2	0.2	M	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.6
4-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.2
5-Feb	0.2	0.2	0.2	0.1	0.1	Z	0.2	0.2	0.2	0.2	0.2	C	C	C	C	C	C	0.2	0.1	0.2	0.2	0.2	0.1	0.1	--	0.2
6-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.4
8-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.5
9-Feb	0.3	0.4	0.4	Z	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
10-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.0	0.1	0.1	0.1	0.2
12-Feb	Z	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.3
13-Feb	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
15-Feb	0.1	0.1	0.1	Z	0.1	0.4	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.3	0.3	0.2	0.2	0.2	0.6
16-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.2
18-Feb	Z	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.1	0.3
19-Feb	0.2	Z	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
20-Feb	0.0	0.0	Z	0.1	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.1	0.3
21-Feb	0.3	0.2	0.2	Z	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.3
22-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
24-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
25-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
26-Feb	0.2	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2
27-Feb	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
28-Feb	0.1	0.1	0.2	0.2	Z	0.2	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	0.1	0.1	0.1	0.1	0.2
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Diurnal Average	
	0.3	0.4	0.6	0.3	0.4	0.6	0.6	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.4	0.5	0.5	0.5	0.4	0.3	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

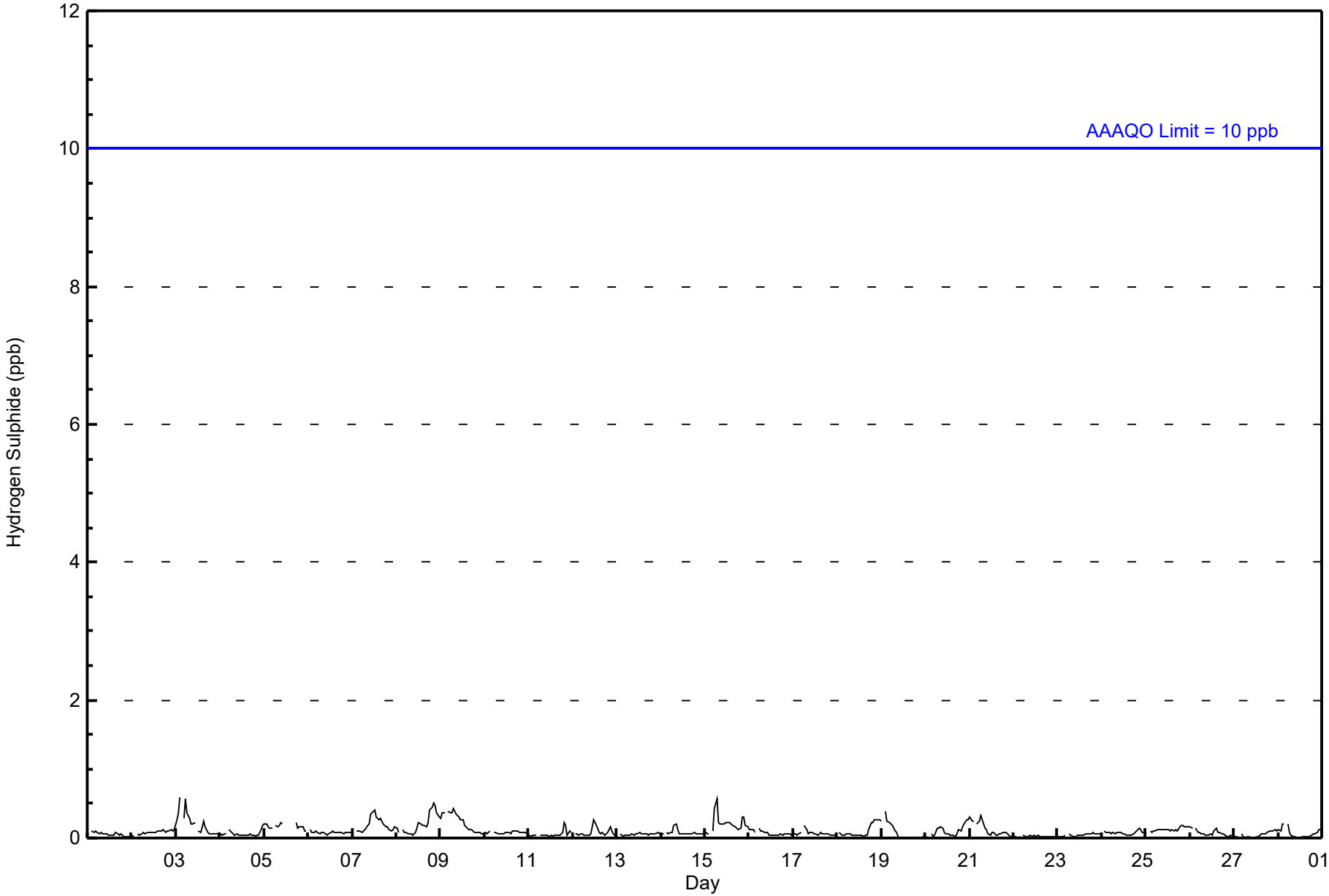
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Surmont 2 - February 2026



Hydrogen Sulphide (H_2S) - ppb

Surmont 2 - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	637	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Surmont 2 - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	33	36	16	21	16	73	56	21	15	8	18	92	67	30	20	78	600
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	36	16	21	16	73	56	21	15	8	18	92	67	30	20	78	600

Total Number of Valid Hours: 600

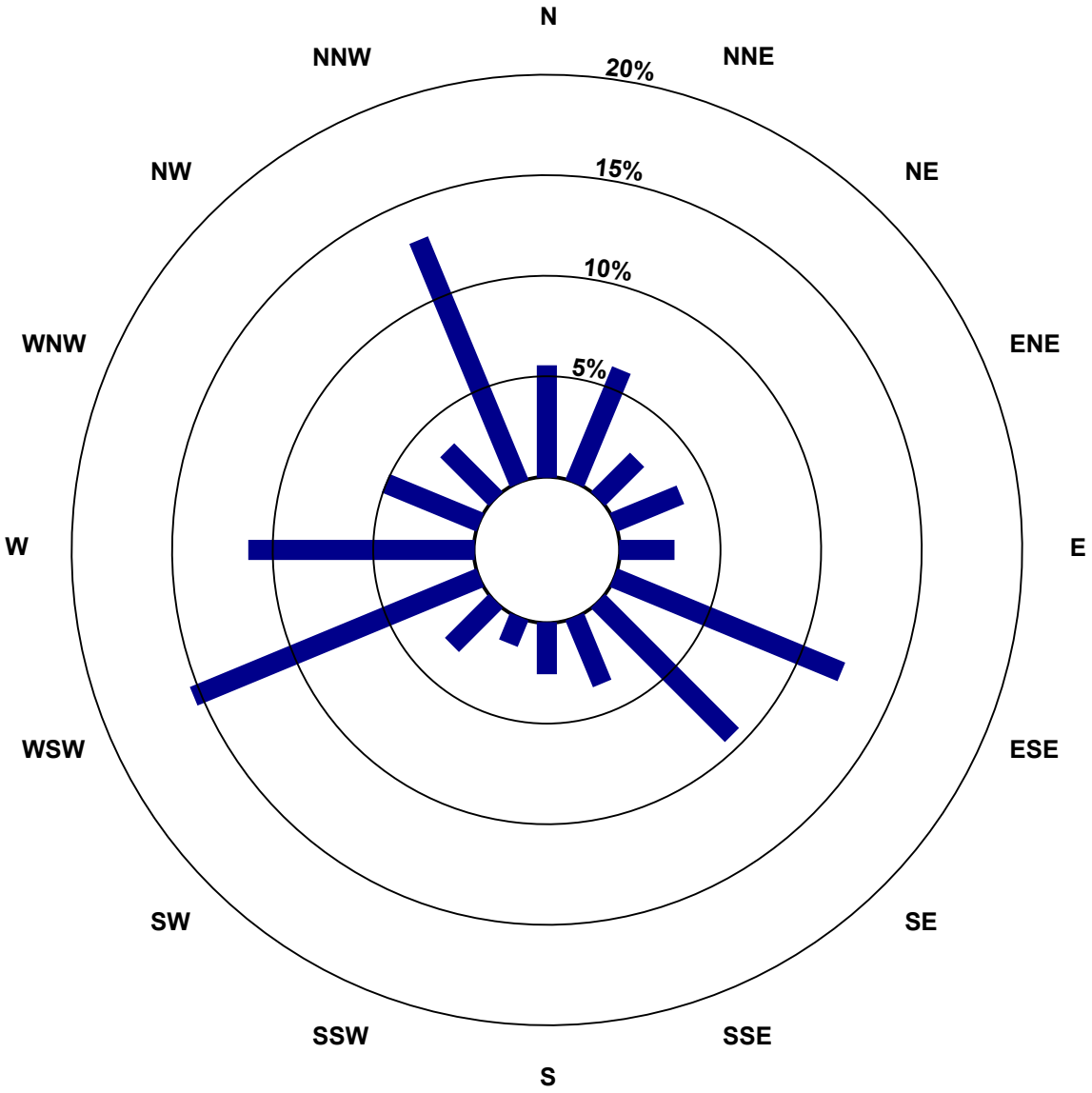
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Surmont 2



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

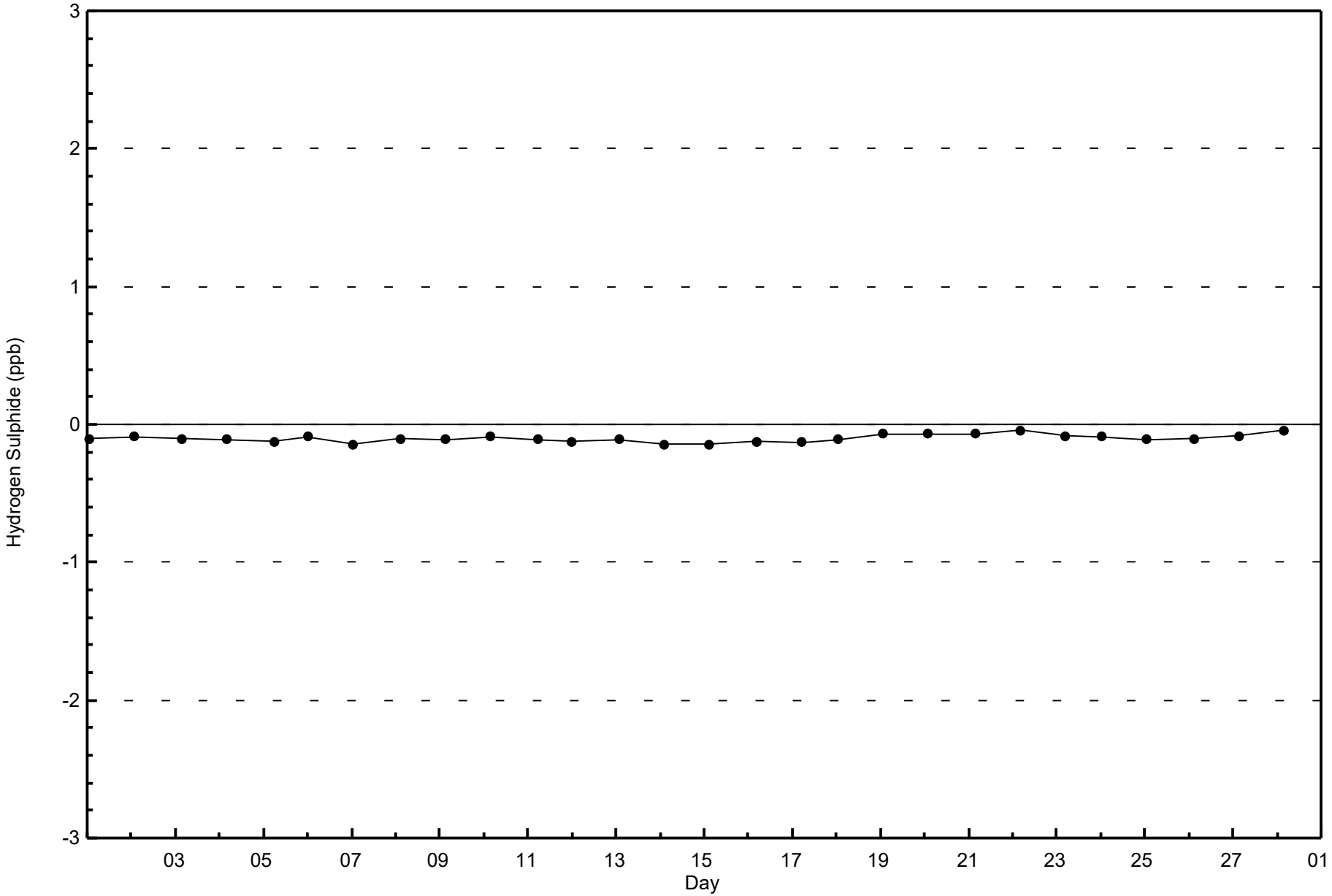
Total Number of Valid Hours: 600

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Surmont 2 - February 2026

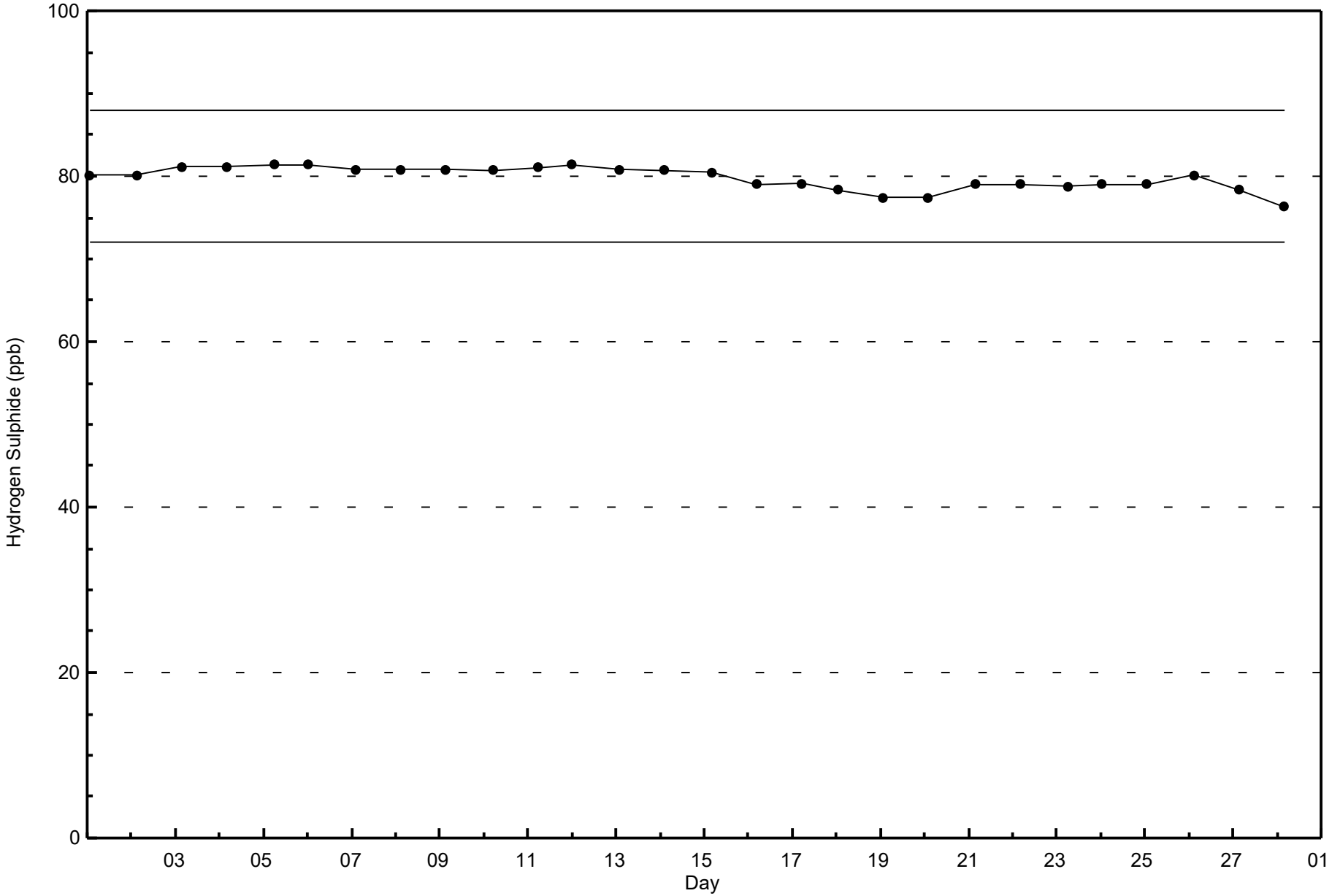


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Surmont 2 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Surmont 2 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 2.6 ppm on Feb 15 07:00

Maximum Daily Average: 2.3 ppm on Feb 27

Minimum Value: 2.1 ppm on Feb 11 14:00

Minimum Daily Average: 2.2 ppm on Feb 13

Maximum Diurnal Average: 2.3 ppm at hour 24

Minimum Diurnal Average: 2.2 ppm at hour 8

Monthly Average: 2.25 ppm

Percentiles: P_1 = 2.1 P_{10} = 2.2 Q_1 = 2.2 Median = 2.2 Q_3 = 2.3 P_{90} = 2.3 P_{99} = 2.5

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.3	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
2-Feb	2.2	Z	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.4
3-Feb	2.4	2.5	Z	2.5	2.5	2.5	2.5	2.4	2.3	2.3	2.3	C	C	C	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.5
4-Feb	2.2	2.2	2.2	Z	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.2	2.4
5-Feb	2.4	2.3	2.3	2.3	Z	2.2	2.3	2.3	2.3	2.2	2.2	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.5
6-Feb	2.3	2.2	2.3	2.3	2.3	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
7-Feb	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.4	2.5	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5
8-Feb	2.3	Z	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.4	2.4	2.3	2.3	2.4	2.5	2.5	2.5	2.4	2.4	2.4	2.3	2.5
9-Feb	2.4	2.4	Z	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.3	2.4
10-Feb	2.2	2.3	2.2	Z	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3
11-Feb	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.4	2.1	2.3	2.2	2.2	2.4
12-Feb	2.2	2.2	2.2	2.1	2.2	Z	2.1	2.1	2.1	2.1	2.2	2.4	2.3	2.3	2.1	2.1	2.2	2.2	2.2	2.2	2.4	2.3	2.3	2.2	2.2	2.4
13-Feb	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.3
14-Feb	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.3
15-Feb	2.2	2.2	Z	2.2	2.2	2.6	2.6	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.3	2.6
16-Feb	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
17-Feb	2.2	2.2	2.3	2.3	Z	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
18-Feb	2.2	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
19-Feb	Z	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
20-Feb	2.2	Z	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.4
21-Feb	2.4	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.3	2.4	2.3	2.2	2.3	2.3	2.3	2.4
22-Feb	2.2	2.3	2.3	Z	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
23-Feb	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.3
24-Feb	2.3	2.3	2.2	2.3	2.2	Z	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.2	2.3
25-Feb	Z	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.4
26-Feb	2.3	Z	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.4
27-Feb	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.4
28-Feb	2.3	2.3	2.4	Z	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
	2.3	2.3	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	Diurnal Average	
	2.4	2.5	2.4	2.5	2.5	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.4	2.4	2.4	Diurnal Maximum	

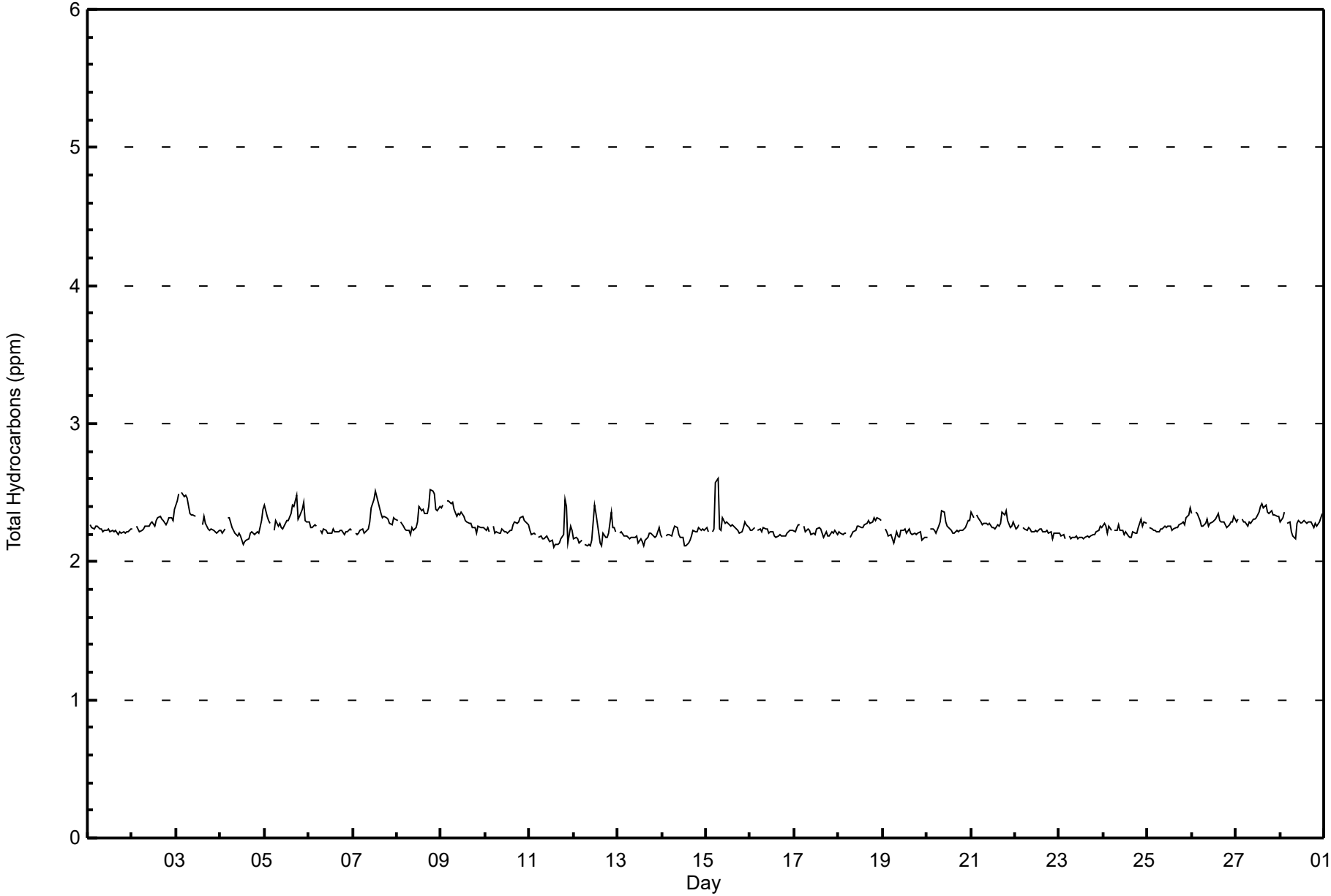
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Surmont 2 - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	0	0.00	0.00
2.1 - 3.0	641	100.00	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Surmont 2 - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.1 - 3.0	32	39	16	21	16	75	56	18	15	8	18	96	65	30	21	81	607
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	32	39	16	21	16	75	56	18	15	8	18	96	65	30	21	81	607

Total Number of Valid Hours: 607

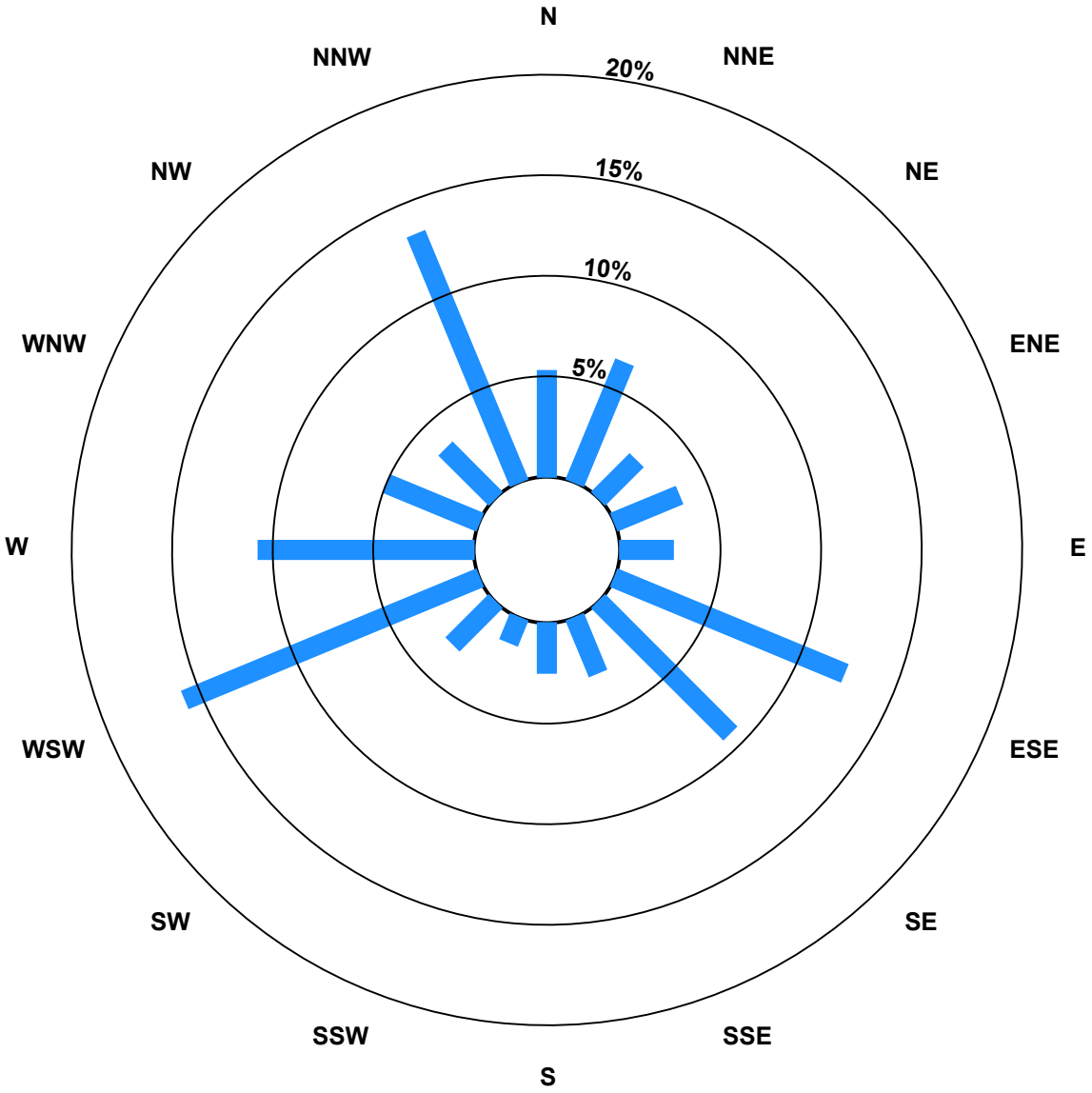
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Surmont 2



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

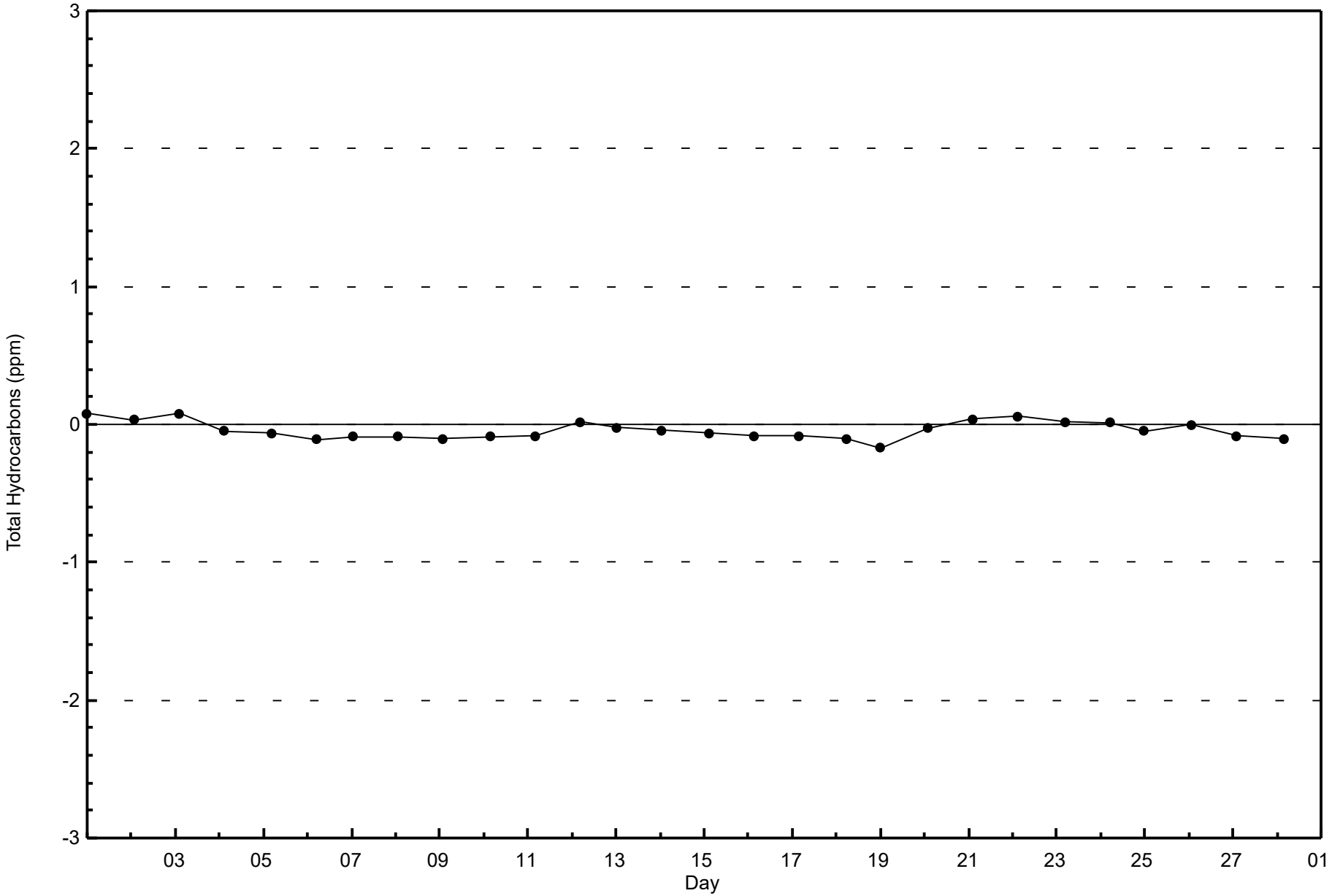
Total Number of Valid Hours: 607

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Surmont 2 - February 2026

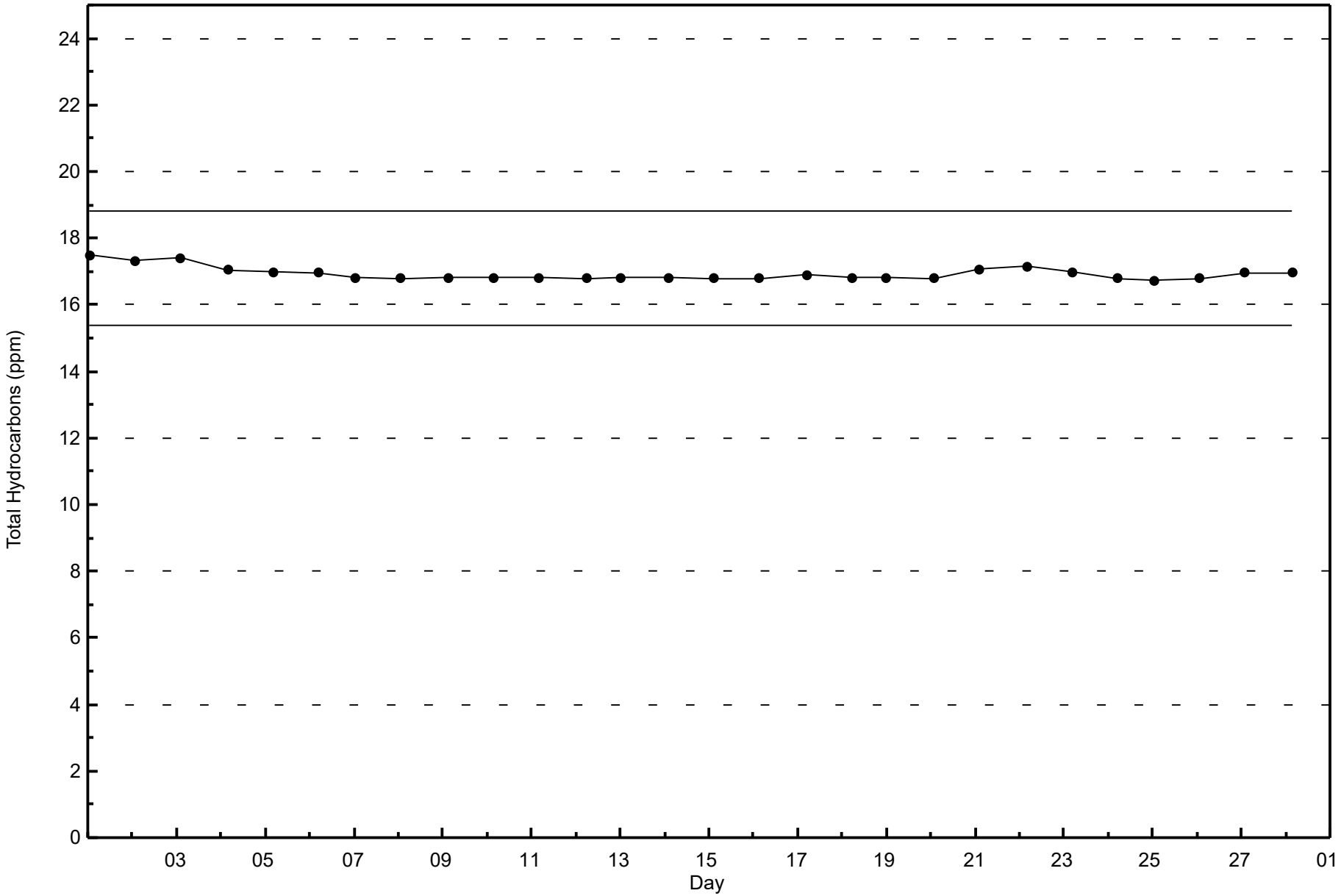


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Surmont 2 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Surmont 2 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 7.9 ppb on Feb 20 10:00

Maximum Daily Average: 1.3 ppb on Feb 20

Minimum Value: 0.0 ppb on Feb 1 01:00

Minimum Daily Average: 0.0 ppb on Feb 1

Maximum Diurnal Average: 1.1 ppb at hour 12

Minimum Diurnal Average: 0.0 ppb at hour 5

Monthly Average: 0.35 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.3 P_{90} = 1.1 P_{99} = 3.7

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.2	0.3	0.5	0.4	0.9	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9
3-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.5	M	0.2	0.1	0.3	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5
4-Feb	0.0	Z	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
5-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.5	0.7	0.6	0.6	1.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5
6-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
7-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.2	1.2	4.8	6.8	7.4	3.8	2.7	1.9	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.3	7.4
8-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	1.0	2.1	2.4	1.7	1.3	0.9	0.4	0.1	0.1	0.2	0.0	0.1	0.0	0.0	0.4	2.4
9-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.5	1.7	2.1	0.9	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.1
10-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.4	0.3	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
11-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.4
12-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.3	3.4	2.1	1.6	0.6	0.2	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	3.4
13-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.5	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5
14-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	1.9	4.1	1.6	0.3	0.3	0.2	0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.1
15-Feb	Z	0.0	0.0	0.0	0.0	0.4	1.5	0.0	0.3	1.4	1.1	1.9	1.8	1.4	1.4	1.3	0.8	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.6	1.9
16-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	1.3	2.3	1.5	0.5	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.3
17-Feb	0.1	0.0	Z	0.0	0.0	0.1	0.1	0.1	0.5	1.3	1.2	0.8	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2	1.3
18-Feb	0.0	0.0	0.0	Z	0.1	0.2	0.3	0.3	1.1	1.9	2.0	2.2	1.9	1.6	1.2	1.1	1.7	1.0	0.6	0.8	0.1	0.4	1.0	0.7	0.9	2.2
19-Feb	0.5	0.9	1.0	2.1	Z	2.7	2.1	0.7	1.5	0.4	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.7	2.7
20-Feb	0.0	0.0	0.0	0.0	0.0	Z	1.5	0.8	6.1	7.9	3.5	2.4	2.2	1.6	1.6	1.1	0.5	0.6	0.2	0.0	0.0	0.0	0.0	0.0	1.3	7.9
21-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.8	1.1	0.8	0.4	0.2	0.3	0.4	0.4	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1
22-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
24-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.8	1.1	1.2	0.7	0.6	0.5	0.3	0.4	0.2	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.3	1.2
25-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.4	1.4	1.0	1.5	1.4	0.9	0.5	0.3	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.5
26-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.7	1.8	0.8	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8
27-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	C	C	C	C	C	C	2.7	2.2	0.8	0.2	0.2	0.0	0.1	0.0	0.0	--	2.7
28-Feb	0.0	Z	0.9	1.1	0.1	0.0	0.0	0.4	1.8	1.4	0.5	0.6	0.8	0.5	0.5	0.4	0.2	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.4	1.8
	0.0	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.7	1.0	1.0	1.1	1.0	0.7	0.6	0.5	0.4	0.1	0.1	0.1	0.0	0.0	0.0	0.0	Diurnal Average	
	0.5	0.9	1.0	2.1	0.1	2.7	2.1	1.9	6.1	7.9	4.8	6.8	7.4	3.8	2.7	2.7	2.2	1.0	0.6	0.8	0.1	0.4	1.0	0.7	Diurnal Maximum	

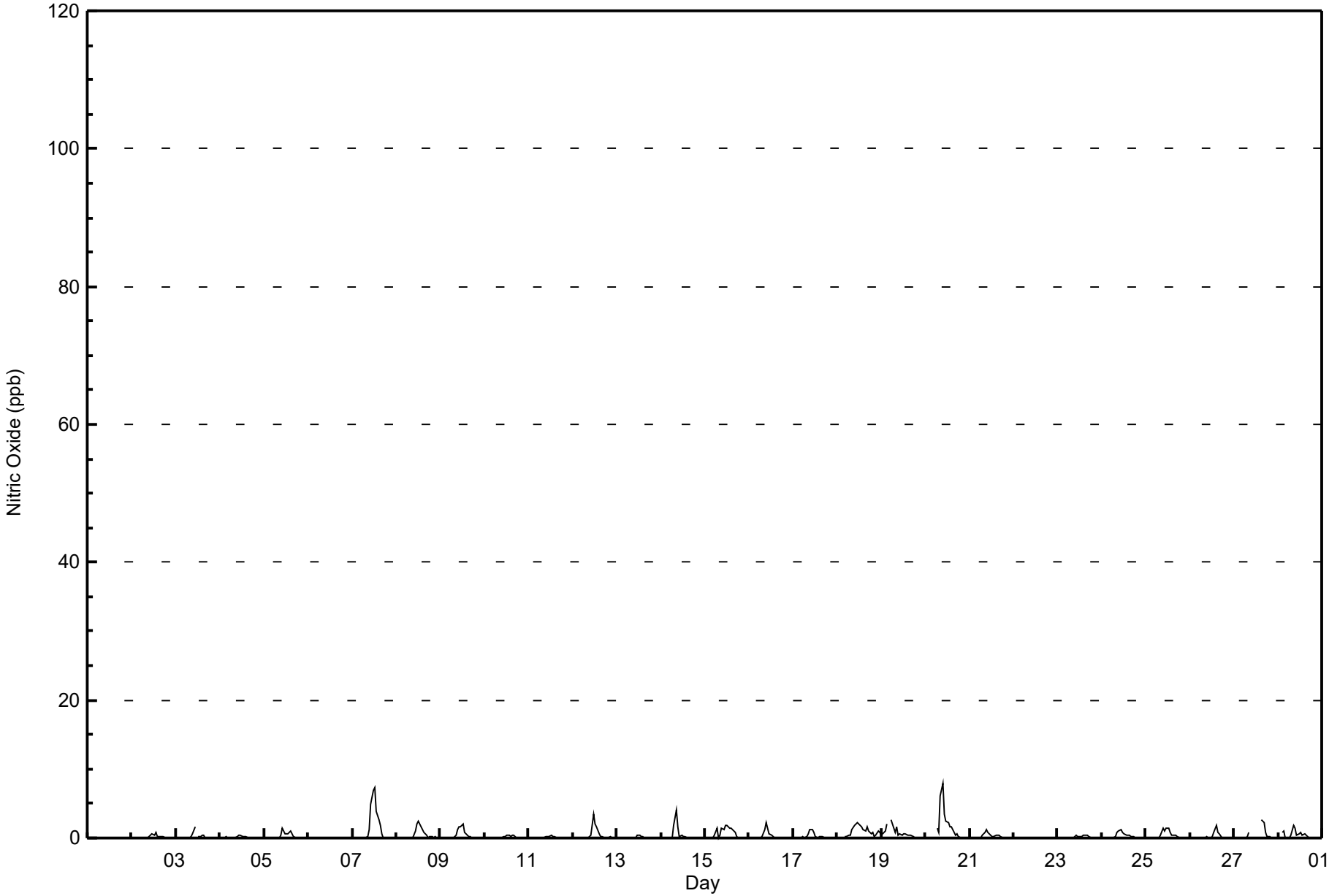
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Surmont 2 - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	637	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Surmont 2 - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	33	36	17	22	17	71	56	21	16	8	17	94	65	30	20	77	600
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	36	17	22	17	71	56	21	16	8	17	94	65	30	20	77	600

Total Number of Valid Hours: 600

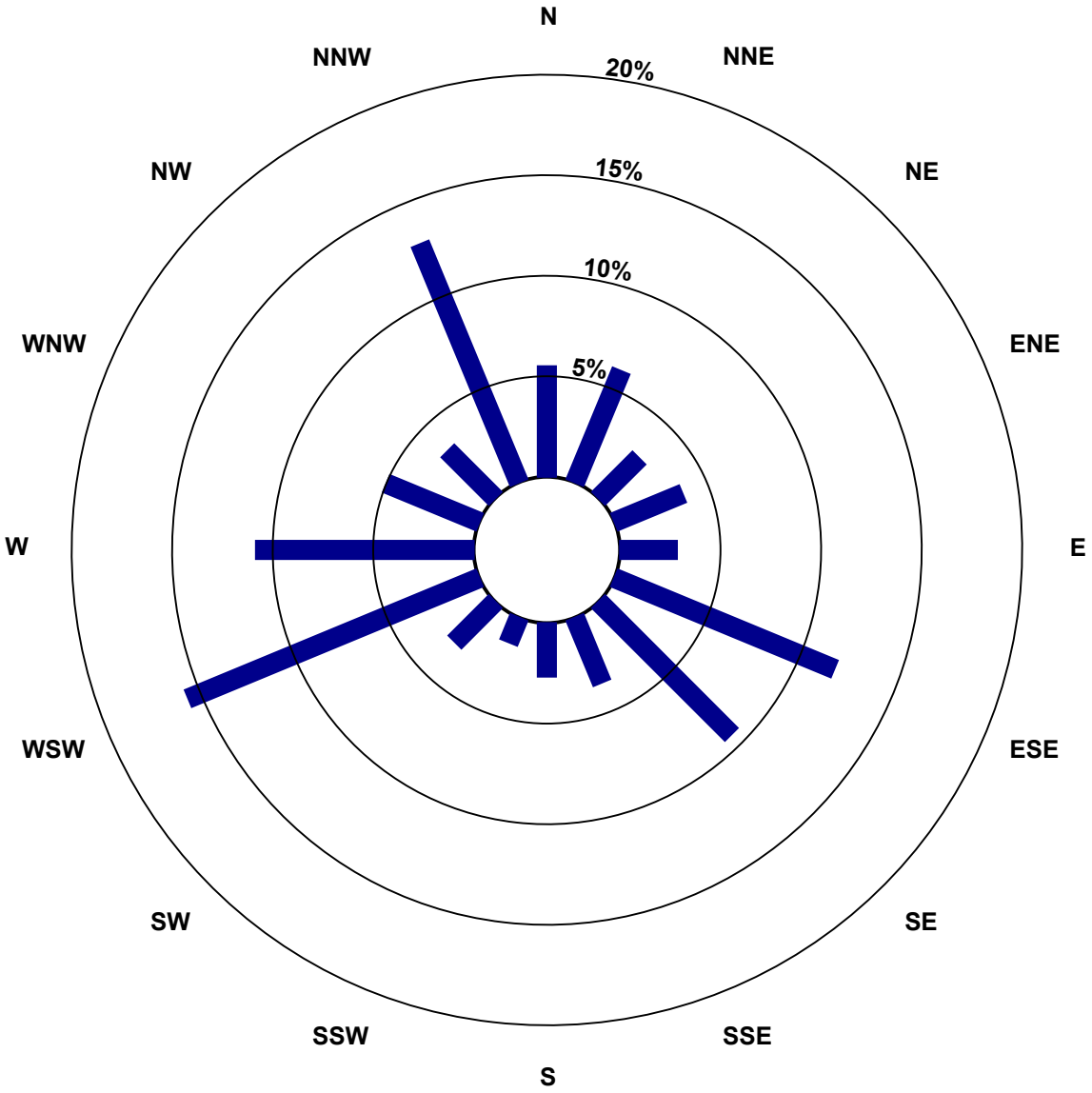
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Surmont 2



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

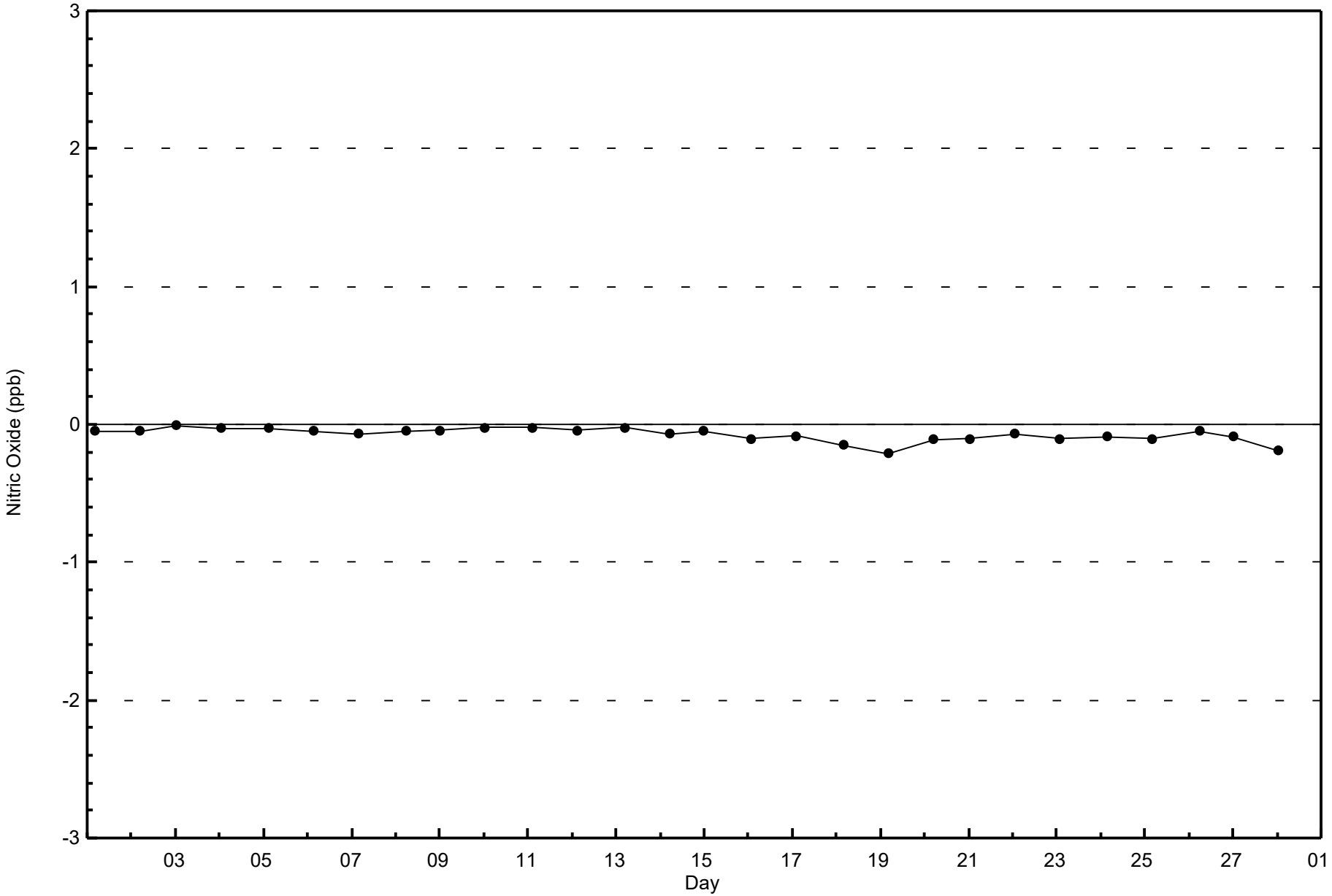
Total Number of Valid Hours: 600

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Surmont 2 - February 2026

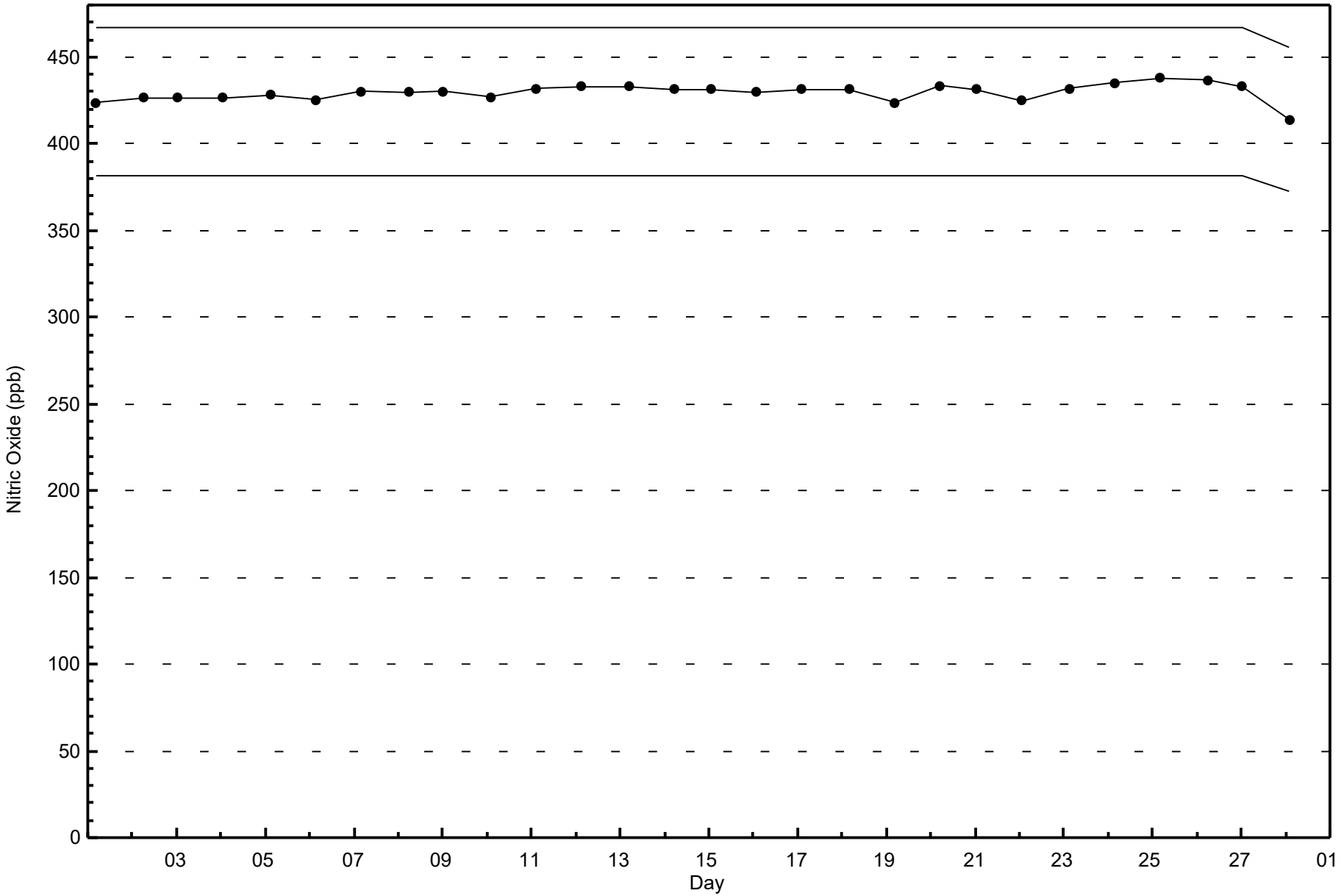


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Surmont 2 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Surmont 2 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 25.4 ppb on Feb 14 08:00
Maximum Daily Average: 8.0 ppb on Feb 20

Minimum Value: 0.2 ppb on Feb 23 01:00
Minimum Daily Average: 0.4 ppb on Feb 22
Maximum Diurnal Average: 5.1 ppb at hour 7
Minimum Diurnal Average: 2.3 ppb at hour 15
Monthly Average: 3.54 ppb
Percentiles: P_1 = 0.3 P_{10} = 0.6 Q_1 = 1.1 Median = 2.1 Q_3 = 4.4 P_{90} = 8.8 P_{99} = 19.0

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.2	1.5	1.4	1.5	Z	1.6	1.4	1.3	0.9	0.7	0.6	0.6	0.7	0.7	0.8	0.9	0.9	0.8	0.8	0.5	0.4	0.4	0.4	0.4	0.9	1.6
2-Feb	0.5	0.7	0.8	0.7	0.8	Z	2.1	2.4	2.4	2.4	2.3	2.0	1.6	1.9	1.9	2.4	3.0	3.6	1.7	1.6	2.3	4.8	3.2	2.3	2.1	4.8
3-Feb	Z	8.8	13.0	10.9	7.9	9.9	8.2	4.6	4.8	5.2	6.1	M	1.6	1.2	2.4	3.5	2.9	0.9	0.7	0.8	0.9	0.9	0.8	1.2	4.4	13.0
4-Feb	1.4	Z	1.7	4.2	4.3	5.2	3.3	2.1	1.5	1.6	1.7	1.4	1.0	0.8	0.9	0.7	1.6	1.9	1.5	1.3	1.4	1.8	3.6	6.3	2.2	6.3
5-Feb	8.9	6.1	Z	3.7	3.5	1.6	5.0	4.2	4.1	3.7	2.0	2.0	2.0	2.5	4.1	4.2	4.6	5.9	5.3	5.7	5.3	5.8	3.0	2.1	4.1	8.9
6-Feb	1.9	1.4	1.4	Z	1.6	1.5	1.0	0.9	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.4	0.4	0.6	0.5	0.4	0.8	1.9
7-Feb	0.4	0.3	1.2	3.1	Z	2.6	2.8	4.4	6.2	7.1	12.8	14.2	14.7	9.9	9.7	10.5	10.1	8.9	8.2	8.8	5.5	3.8	3.6	3.6	6.6	14.7
8-Feb	3.1	2.4	2.1	1.6	1.3	Z	0.8	0.7	0.6	0.7	4.2	6.0	6.2	5.5	4.8	4.7	5.0	8.4	16.9	17.5	16.9	12.7	9.1	8.4	6.1	17.5
9-Feb	Z	10.4	9.6	8.8	11.0	11.0	10.2	9.7	6.7	6.0	4.7	4.2	5.1	3.4	3.0	2.4	2.7	2.0	1.7	1.3	1.4	1.2	0.9	0.8	5.1	11.0
10-Feb	0.8	Z	1.2	2.1	1.9	0.7	0.8	0.6	0.6	0.7	0.7	0.8	1.1	1.3	1.6	2.4	2.9	3.3	3.2	4.5	4.1	3.9	3.9	3.0	2.0	4.5
11-Feb	1.7	1.6	Z	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.0	1.2	1.5	1.2	1.0	0.8	1.2	2.1	6.1	11.3	6.8	1.5	4.4	3.2	2.4	11.3
12-Feb	1.3	1.6	1.0	Z	1.9	2.2	1.0	0.8	1.1	1.0	2.2	18.6	14.5	10.9	4.3	3.2	3.3	1.2	3.1	5.3	11.3	4.4	2.7	1.6	4.3	18.6
13-Feb	0.9	1.0	1.0	1.7	Z	1.3	1.1	1.2	1.1	0.8	0.7	1.8	2.8	2.1	1.2	1.2	1.4	1.8	1.9	1.9	1.1	1.5	1.6	1.6	1.4	2.8
14-Feb	1.4	1.6	1.4	1.6	1.8	Z	8.1	25.4	19.0	6.4	1.5	1.5	1.2	0.9	0.7	0.6	1.4	2.9	2.1	1.7	1.1	1.1	0.9	1.3	3.7	25.4
15-Feb	Z	0.7	0.5	0.5	1.7	18.5	21.5	6.0	4.8	5.0	3.5	3.6	4.2	3.8	4.6	5.3	5.4	4.1	4.4	6.2	11.9	11.0	7.0	6.8	6.1	21.5
16-Feb	6.2	Z	5.1	4.4	4.2	4.6	4.9	6.0	4.4	3.4	2.2	1.0	0.7	0.7	0.4	0.5	0.4	0.6	0.9	2.3	1.2	0.7	0.6	1.3	2.5	6.2
17-Feb	1.2	0.5	Z	0.9	2.9	9.0	6.9	5.5	4.2	4.2	3.5	2.0	1.0	0.6	1.0	2.1	2.1	1.7	1.6	1.6	1.2	1.0	1.1	1.0	2.5	9.0
18-Feb	0.7	0.8	1.7	Z	2.2	2.4	2.4	2.1	1.7	1.6	1.2	1.0	1.2	1.1	0.8	0.8	1.4	2.2	2.8	3.3	2.8	3.2	4.3	4.4	2.0	4.4
19-Feb	4.1	4.9	5.4	6.9	Z	7.9	8.9	7.9	3.4	0.7	0.8	0.7	0.9	0.9	0.7	0.8	1.4	2.5	2.3	2.7	3.2	3.2	2.9	2.9	3.3	8.9
20-Feb	2.5	2.3	3.1	3.6	5.4	Z	22.3	21.8	19.1	12.1	5.8	4.3	3.8	3.0	3.4	3.6	3.2	6.8	14.2	9.5	8.0	6.1	9.5	11.6	8.0	22.3
21-Feb	Z	14.2	13.7	11.9	9.5	9.6	8.6	8.8	6.9	5.2	2.9	1.7	1.2	1.1	1.4	1.9	3.7	4.6	5.6	5.4	4.8	2.0	1.2	0.5	5.5	14.2
22-Feb	0.5	Z	0.7	0.5	0.4	0.5	0.6	0.7	0.9	0.5	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.9
23-Feb	0.2	0.3	Z	0.4	0.3	0.2	0.2	0.2	0.4	0.9	0.9	0.7	1.1	1.0	1.4	2.0	2.4	3.6	4.2	3.9	3.1	2.8	2.6	3.1	1.6	4.2
24-Feb	3.8	3.7	2.5	Z	2.4	2.1	4.2	3.7	3.3	2.4	1.9	1.4	1.2	1.2	1.1	1.1	1.5	2.9	6.8	10.9	16.6	9.7	4.4	2.6	4.0	16.6
25-Feb	1.3	1.4	1.6	1.6	Z	2.3	2.6	2.2	2.0	3.0	2.5	3.1	3.0	2.2	2.0	1.8	2.6	3.3	3.5	2.8	3.0	3.6	4.3	5.7	2.7	5.7
26-Feb	6.0	5.3	4.6	3.1	1.5	Z	1.1	1.5	1.9	1.4	0.9	1.0	1.2	3.1	5.6	3.4	3.2	2.7	2.8	2.2	1.4	1.8	3.1	3.0	2.7	6.0
27-Feb	Z	2.4	2.3	2.6	2.1	1.8	2.9	3.1	2.9	C	C	C	C	C	C	4.3	5.3	7.2	11.1	11.5	9.8	11.5	13.8	12.7	--	13.8
28-Feb	14.4	Z	19.0	19.9	16.0	14.1	9.8	6.7	5.3	2.6	1.0	1.1	1.2	1.0	1.2	1.2	1.1	1.1	2.0	4.2	4.6	4.7	6.3	5.9	6.3	19.9
	2.8	3.2	4.0	4.1	3.7	4.9	5.1	4.8	4.0	3.0	2.5	3.0	2.8	2.3	2.3	2.4	2.7	3.1	4.2	4.6	4.7	3.8	3.6	3.5	Diurnal Average	
	14.4	14.2	19.0	19.9	16.0	18.5	22.3	25.4	19.1	12.1	12.8	18.6	14.7	10.9	9.7	10.5	10.1	8.9	16.9	17.5	16.9	12.7	13.8	12.7	Diurnal Maximum	

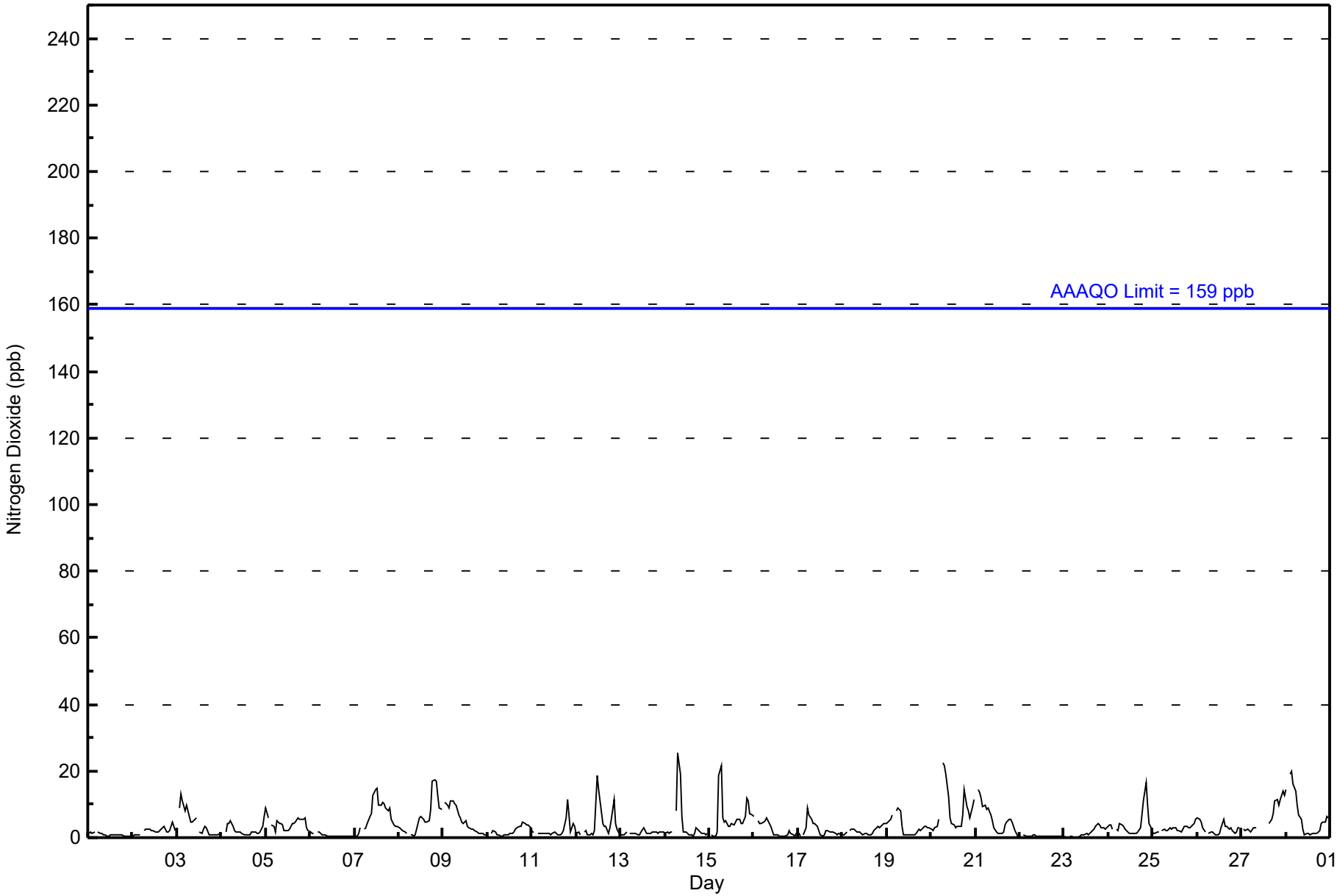
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Surmont 2 - February 2026



Nitrogen Dioxide (NO_2) - ppb

Surmont 2 - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	633	99.37	99.37
21 - 40	4	0.63	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Surmont 2 - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	32	36	17	22	17	71	56	21	16	8	14	94	65	30	20	77	596
21 - 40	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	4
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	36	17	22	17	71	56	21	16	8	17	94	65	30	20	77	600

Total Number of Valid Hours: 600

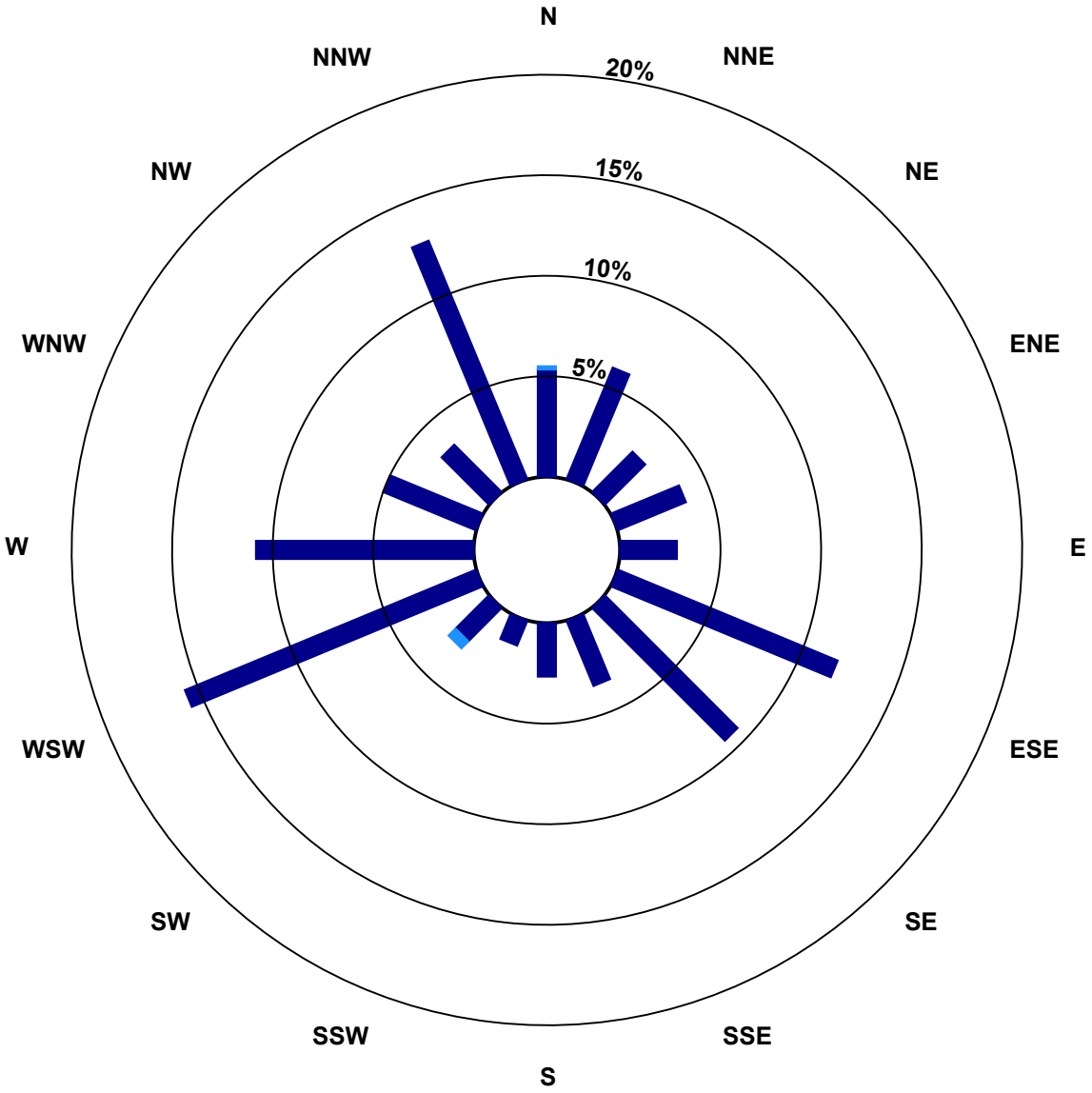
Total Number of Hours: 672

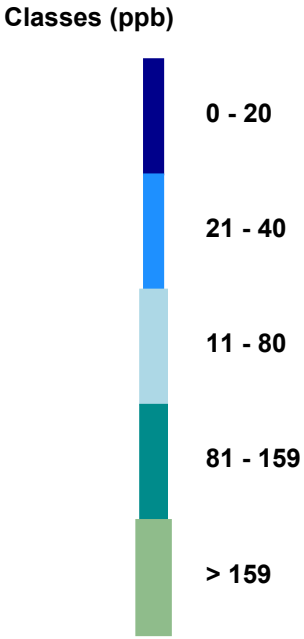
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Surmont 2





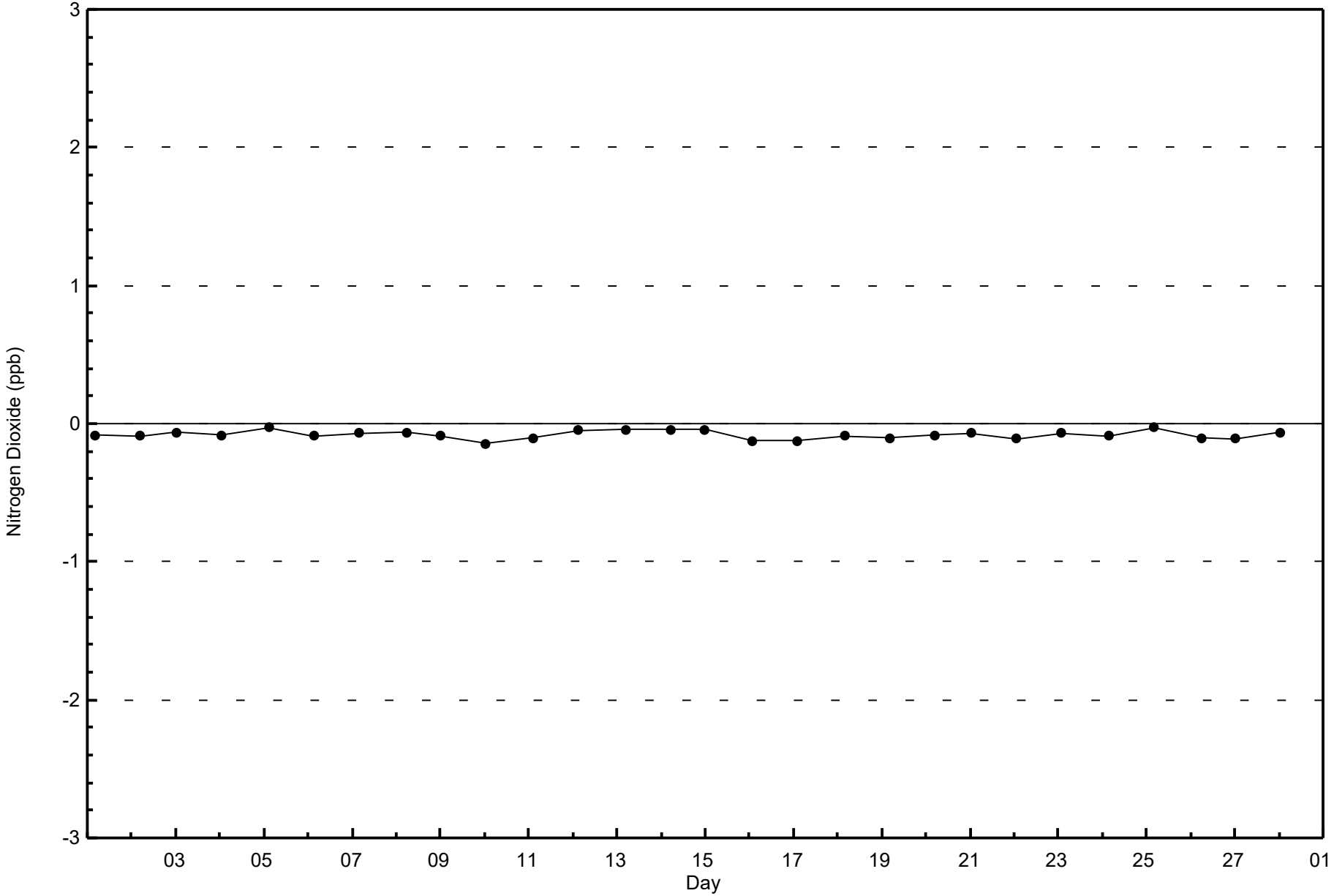
Total Number of Valid Hours: 600

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Surmont 2 - February 2026

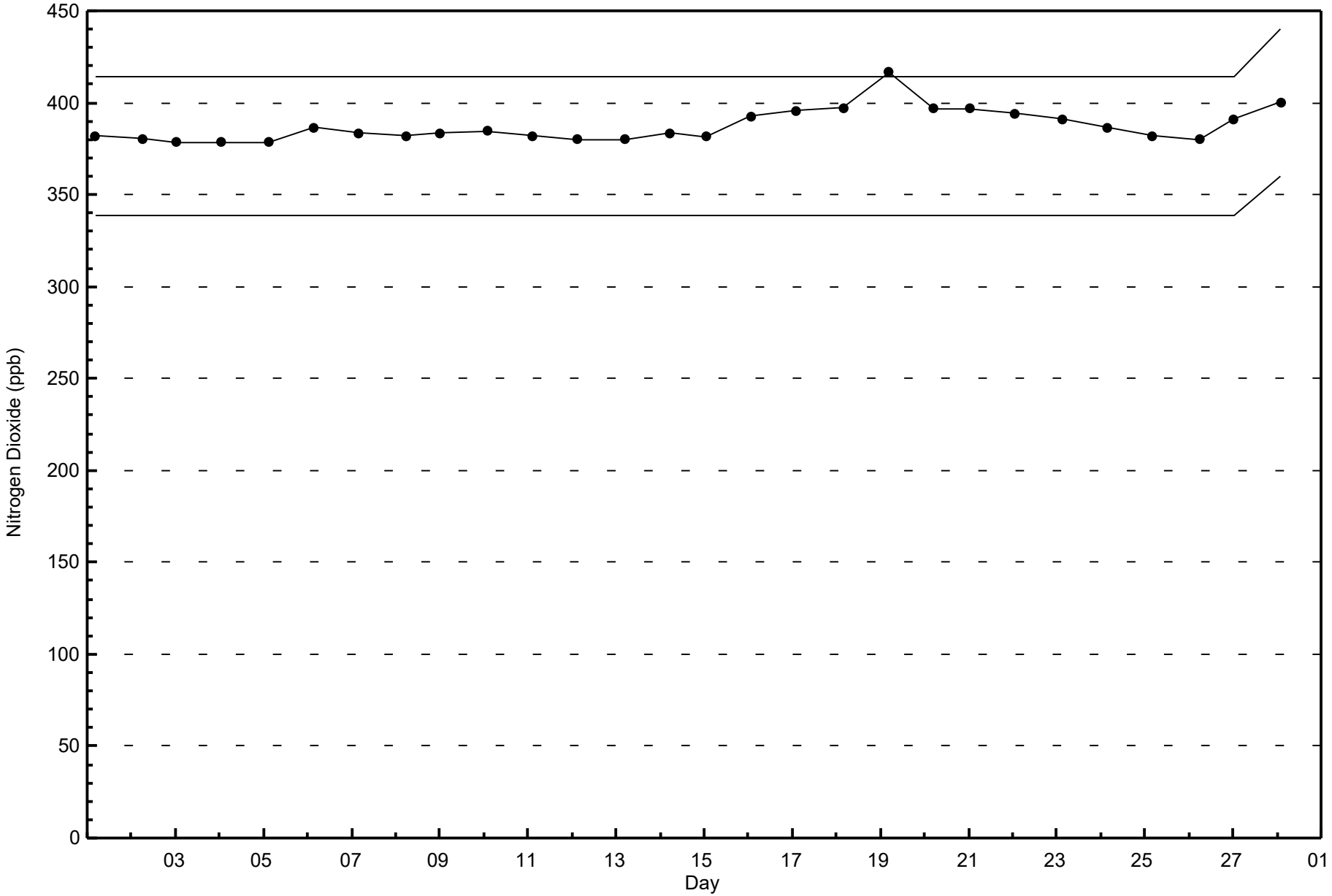


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Surmont 2 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Surmont 2 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 27.3 ppb on Feb 14 08:00

Maximum Daily Average: 9.3 ppb on Feb 20

Minimum Value: 0.2 ppb on Feb 23 08:00

Minimum Daily Average: 0.4 ppb on Feb 22

Maximum Diurnal Average: 5.3 ppb at hour 7

Minimum Diurnal Average: 2.8 ppb at hour 1

Monthly Average: 3.89 ppb

Percentiles: P_1 = 0.3 P_{10} = 0.6 Q_1 = 1.2 Median = 2.4 Q_3 = 4.9 P_{90} = 9.1 P_{99} = 22.1

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.2	1.5	1.4	1.5	Z	1.6	1.4	1.3	0.9	0.7	0.6	0.6	0.7	0.7	0.8	0.9	0.9	0.8	0.8	0.5	0.4	0.4	0.4	0.4	0.9	1.6
2-Feb	0.5	0.7	0.8	0.7	0.8	Z	2.1	2.4	2.4	2.6	2.6	2.5	2.0	2.8	2.1	2.6	3.1	3.7	1.7	1.6	2.3	4.8	3.2	2.3	2.2	4.8
3-Feb	Z	8.8	13.0	10.9	7.9	9.9	8.2	4.6	4.9	5.8	7.6	M	1.8	1.3	2.7	3.9	3.0	0.9	0.7	0.8	0.9	0.9	0.8	1.2	4.6	13.0
4-Feb	1.4	Z	1.7	4.3	4.4	5.3	3.3	2.1	1.5	1.9	2.0	1.7	1.2	1.0	1.0	0.7	1.7	1.9	1.5	1.3	1.4	1.8	3.6	6.3	2.3	6.3
5-Feb	8.9	6.1	Z	3.7	3.5	1.6	5.0	4.2	4.2	4.1	3.5	2.7	2.6	3.1	5.1	4.9	4.8	5.9	5.3	5.7	5.3	5.8	3.0	2.1	4.4	8.9
6-Feb	1.9	1.4	1.4	Z	1.6	1.5	1.0	0.9	0.8	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.4	0.6	0.6	0.4	0.4	0.6	0.5	0.4	0.8	1.9
7-Feb	0.4	0.3	1.2	3.1	Z	2.6	2.8	4.4	6.4	8.3	17.6	21.0	22.1	13.7	12.4	12.4	10.8	9.0	8.2	8.8	5.5	3.8	3.6	3.6	7.9	22.1
8-Feb	3.1	2.4	2.1	1.6	1.3	Z	0.8	0.7	0.6	0.7	5.2	8.1	8.6	7.2	6.1	5.6	5.4	8.5	17.0	17.7	16.9	12.8	9.1	8.4	6.5	17.7
9-Feb	Z	10.5	9.6	8.8	11.0	11.0	10.2	9.7	7.1	7.1	6.2	5.9	7.2	4.3	3.5	2.6	2.8	2.0	1.7	1.3	1.4	1.2	0.9	0.8	5.5	11.0
10-Feb	0.8	Z	1.2	2.1	1.9	0.7	0.8	0.6	0.6	0.7	0.8	1.1	1.5	1.7	1.9	2.8	3.3	3.3	3.2	4.5	4.1	3.9	3.9	3.0	2.1	4.5
11-Feb	1.7	1.6	Z	1.3	1.2	1.2	1.1	1.1	1.1	1.2	1.2	1.4	1.9	1.4	1.1	0.9	1.3	2.1	6.1	11.4	6.9	1.5	4.4	3.2	2.5	11.4
12-Feb	1.3	1.6	1.0	Z	1.9	2.2	1.0	0.8	1.1	1.1	2.5	22.0	16.6	12.5	4.9	3.4	3.6	1.2	3.1	5.3	11.4	4.4	2.7	1.6	4.7	22.0
13-Feb	0.9	1.0	1.0	1.7	Z	1.3	1.1	1.2	1.1	0.9	0.8	2.2	3.3	2.4	1.3	1.3	1.4	1.8	1.9	1.9	1.1	1.5	1.6	1.6	1.5	3.3
14-Feb	1.4	1.6	1.4	1.6	1.8	Z	8.2	27.3	23.1	8.0	1.8	1.8	1.4	1.1	0.7	0.7	1.5	2.9	2.1	1.7	1.1	1.1	0.9	1.3	4.1	27.3
15-Feb	Z	0.7	0.5	0.5	1.7	18.9	23.0	6.0	5.1	6.4	4.6	5.5	6.0	5.2	6.0	6.6	6.2	4.2	4.4	6.3	11.9	11.0	7.0	6.8	6.7	23.0
16-Feb	6.2	Z	5.1	4.4	4.2	4.6	4.9	6.1	5.7	5.7	3.7	1.5	1.1	0.9	0.5	0.5	0.4	0.6	0.9	2.3	1.2	0.7	0.6	1.3	2.7	6.2
17-Feb	1.3	0.5	Z	0.9	2.9	9.1	7.0	5.6	4.7	5.5	4.7	2.8	1.2	0.7	1.2	2.3	2.2	1.8	1.7	1.7	1.2	1.0	1.1	1.0	2.7	9.1
18-Feb	0.7	0.8	1.7	Z	2.3	2.6	2.7	2.4	2.8	3.5	3.2	3.2	3.1	2.7	2.0	1.9	3.1	3.2	3.4	4.1	2.9	3.6	5.3	5.1	2.9	5.3
19-Feb	4.6	5.8	6.4	9.0	Z	10.6	11.0	8.6	4.9	1.1	1.4	1.2	1.4	1.4	1.1	1.1	1.7	2.7	2.4	2.7	3.2	3.2	2.9	2.9	4.0	11.0
20-Feb	2.5	2.3	3.1	3.6	5.4	Z	23.8	22.6	25.2	20.0	9.3	6.7	6.0	4.6	5.0	4.7	3.7	7.4	14.4	9.5	8.0	6.1	9.5	11.6	9.3	25.2
21-Feb	Z	14.2	13.7	11.9	9.5	9.6	8.7	9.2	7.7	6.3	3.7	2.1	1.4	1.4	1.8	2.3	4.2	4.8	5.6	5.4	4.8	2.0	1.2	0.5	5.7	14.2
22-Feb	0.5	Z	0.7	0.5	0.4	0.5	0.6	0.7	0.9	0.5	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.9
23-Feb	0.2	0.3	Z	0.4	0.3	0.2	0.2	0.2	0.5	1.2	1.2	0.9	1.4	1.3	1.8	2.4	2.8	3.8	4.2	3.9	3.1	2.8	2.6	3.1	1.7	4.2
24-Feb	3.8	3.7	2.5	Z	2.4	2.1	4.2	3.8	4.1	3.5	3.1	2.1	1.8	1.7	1.4	1.5	1.7	3.0	6.8	11.0	16.7	9.7	4.4	2.6	4.2	16.7
25-Feb	1.3	1.4	1.6	1.6	Z	2.3	2.6	2.3	2.4	4.4	3.5	4.6	4.4	3.1	2.5	2.1	3.0	3.5	3.5	2.8	3.0	3.6	4.3	5.7	3.0	5.7
26-Feb	6.0	5.3	4.6	3.1	1.5	Z	1.1	1.5	2.0	1.6	1.0	1.1	1.4	3.8	7.4	4.2	3.7	2.8	2.8	2.2	1.4	1.8	3.1	3.0	2.9	7.4
27-Feb	Z	2.4	2.3	2.6	2.1	1.8	2.9	3.3	3.6	C	C	C	C	C	C	7.0	7.5	8.0	11.3	11.7	9.8	11.6	13.8	12.7	--	13.8
28-Feb	14.4	Z	19.9	21.0	16.1	14.1	9.8	7.1	7.1	4.0	1.5	1.7	2.0	1.5	1.7	1.6	1.3	1.2	2.0	4.3	4.7	4.8	6.4	5.9	6.7	21.0
	2.8	3.3	4.1	4.2	3.7	5.0	5.3	5.0	4.7	4.0	3.5	4.0	3.8	3.1	2.9	2.9	3.1	3.3	4.2	4.7	4.7	3.8	3.6	3.5	Diurnal Average	
	14.4	14.2	19.9	21.0	16.1	18.9	23.8	27.3	25.2	20.0	17.6	22.0	22.1	13.7	12.4	12.4	10.8	9.0	17.0	17.7	16.9	12.8	13.8	12.7	Diurnal Maximum	

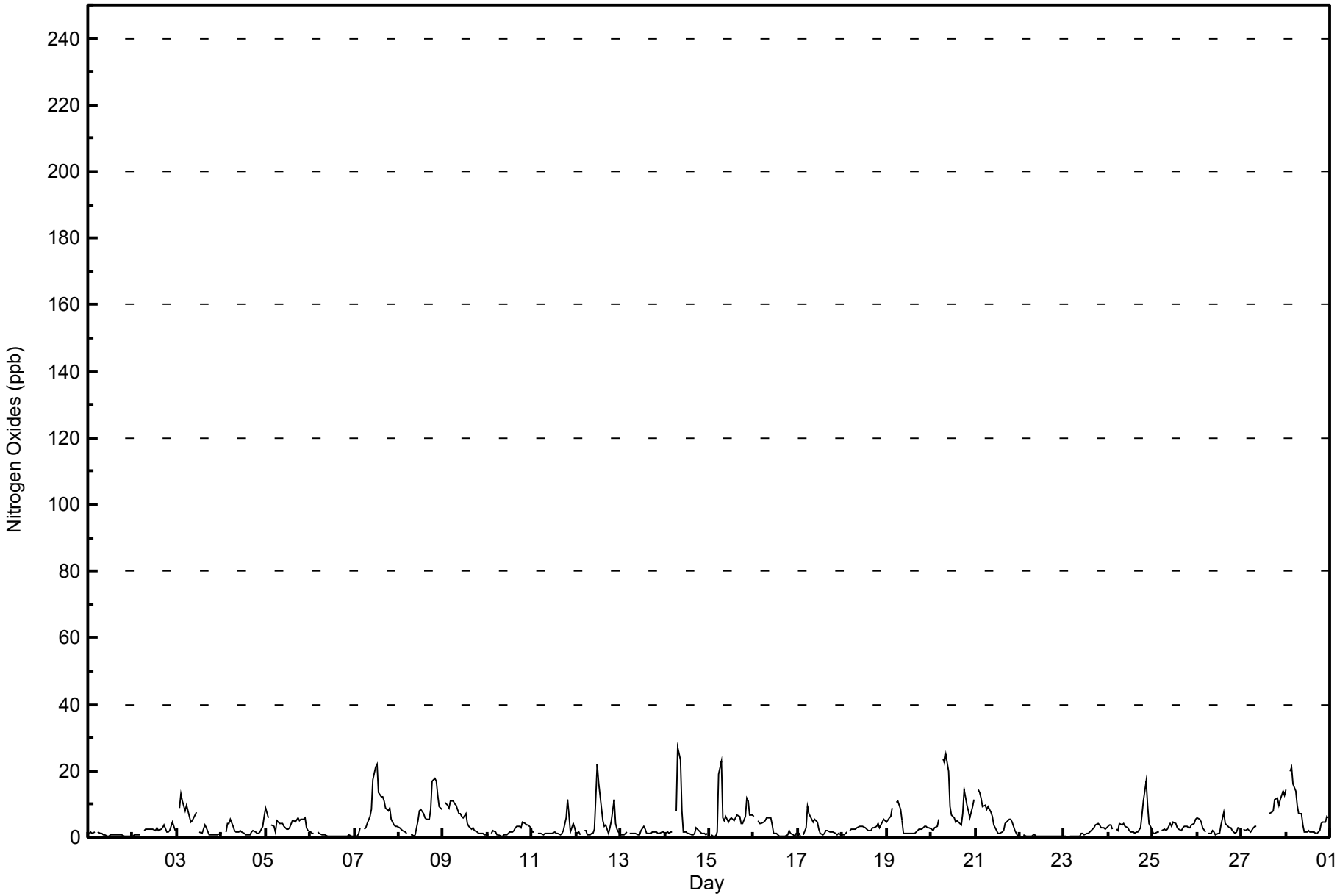
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Surmont 2 - February 2026



Nitrogen Oxides (NO_X) - ppb

Surmont 2 - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	627	98.43	98.43
21 - 40	10	1.57	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Surmont 2 - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	32	36	16	22	17	71	56	21	16	8	13	92	65	30	20	76	591
21 - 40	1	0	1	0	0	0	0	0	0	0	4	2	0	0	0	1	9
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	33	36	17	22	17	71	56	21	16	8	17	94	65	30	20	77	600

Total Number of Valid Hours: 600

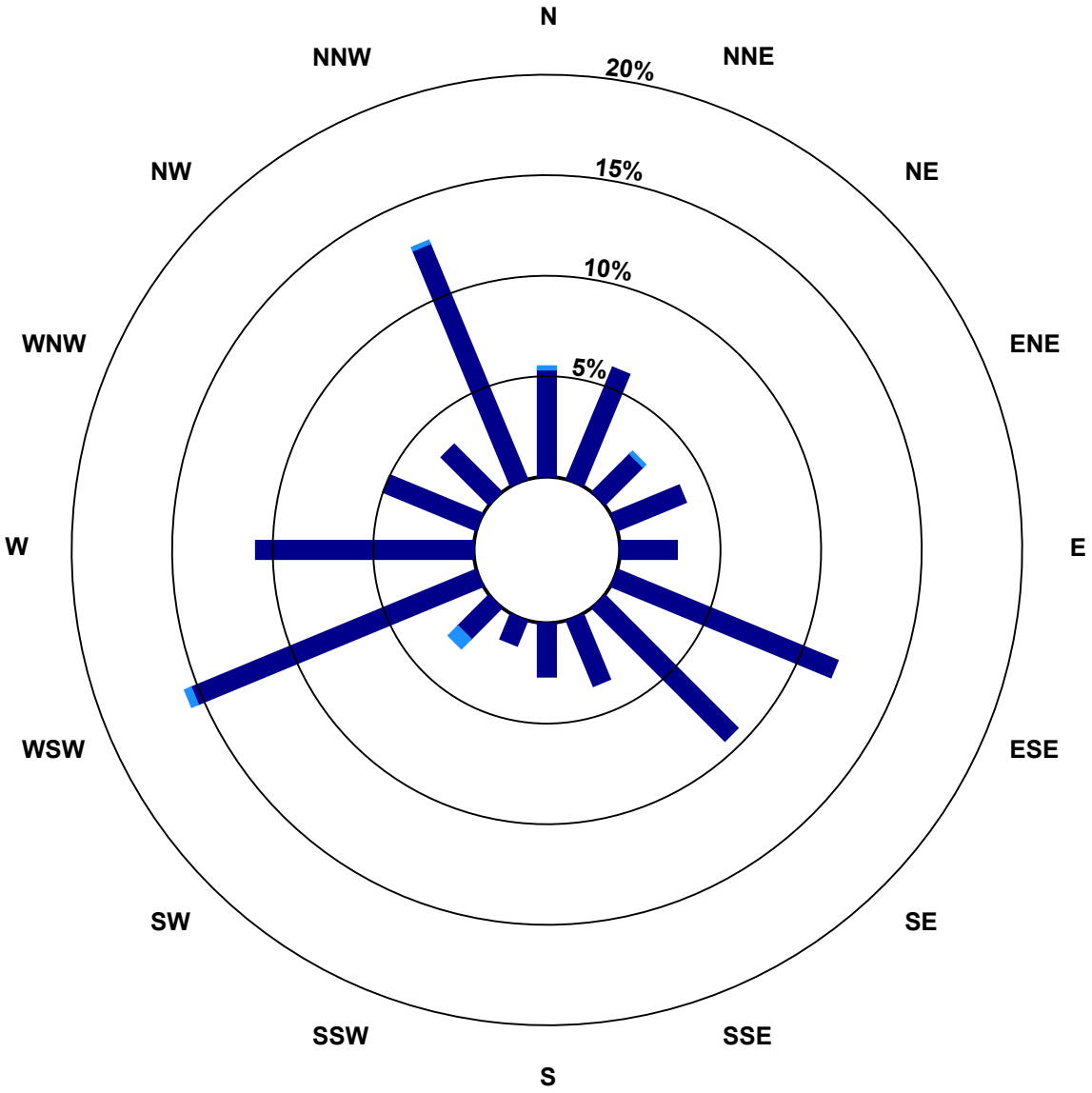
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Surmont 2



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

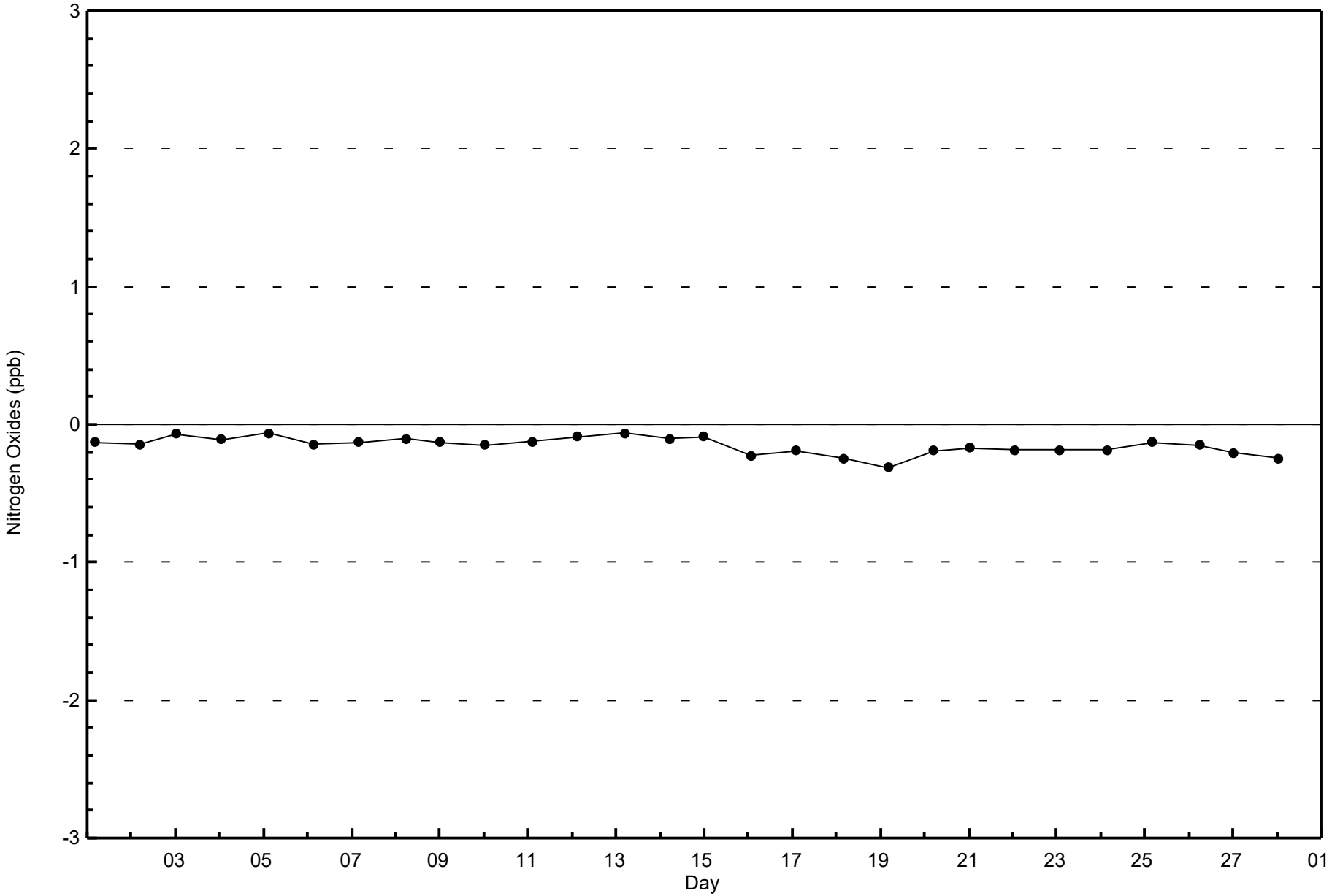
Total Number of Valid Hours: 600

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Surmont 2 - February 2026

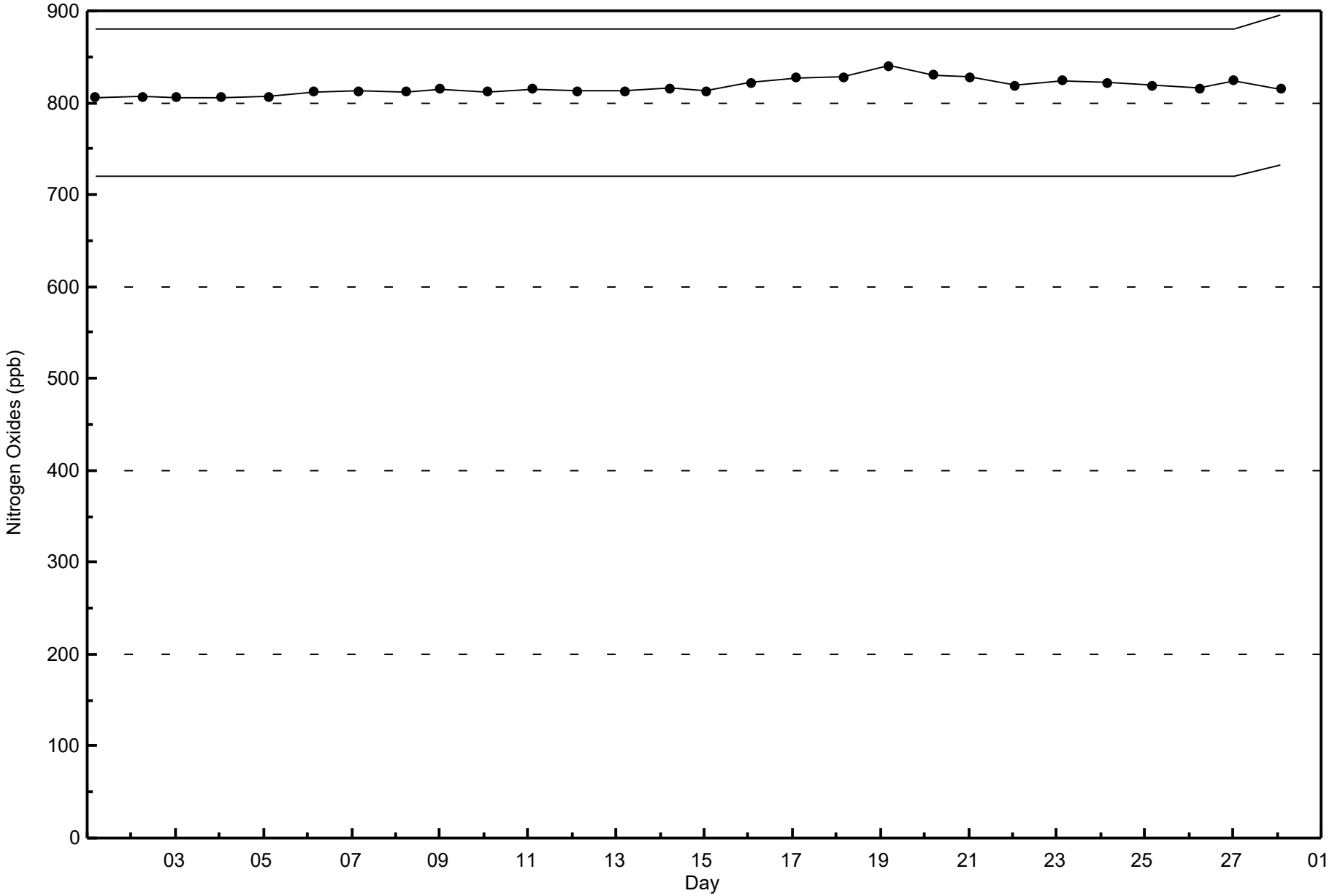


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Surmont 2 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Surmont 2 - February 2026

Number of Exceedences (AAAQO): 1-hr: 4 24-hr: 0

Maximum Value: 142.9 $\mu g/m^3$ on Feb 11 20:00

Maximum Daily Average: 19.8 $\mu g/m^3$ on Feb 12

Minimum Value: 0.3 $\mu g/m^3$ on Feb 4 19:00

Minimum Daily Average: 1.3 $\mu g/m^3$ on Feb 23

Maximum Diurnal Average: 9.2 $\mu g/m^3$ at hour 21

Minimum Diurnal Average: 2.9 $\mu g/m^3$ at hour 18

Monthly Average: 4.52 $\mu g/m^3$

Percentiles: P_1 = 0.5 P_{10} = 1.3 Q_1 = 1.9 Median = 2.8 Q_3 = 4.3 P_{90} = 6.6 P_{99} = 41.2

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Hours of Calibration:	3
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.8	2.9	3.2	3.4	3.5	3.1	3.2	3.0	2.8	2.6	2.6	2.5	2.5	2.5	2.0	1.7	1.5	1.2	1.3	1.2	1.1	1.0	1.1	1.0	2.2	3.5
2-Feb	1.2	1.5	1.8	2.0	2.3	2.7	2.9	2.9	3.0	3.1	3.0	3.1	3.7	4.3	5.0	6.4	6.0	5.0	3.4	4.2	4.3	4.5	4.4	5.7	3.6	6.4
3-Feb	8.2	9.7	7.8	7.7	7.3	7.8	7.9	8.1	7.1	6.8	7.8	7.1	4.9	4.5	5.7	7.4	8.3	6.3	5.0	4.7	4.0	3.8	3.7	4.2	6.5	9.7
4-Feb	5.3	5.4	5.0	5.1	5.6	5.2	4.2	2.9	2.3	1.9	1.6	1.1	0.9	0.7	0.5	0.4	0.4	0.3	0.3	0.3	0.4	0.4	1.4	3.5	2.3	5.6
5-Feb	4.3	4.8	4.3	3.9	2.9	1.6	3.7	3.2	1.9	2.2	2.1	2.0	2.0	1.7	2.0	1.9	1.9	2.1	2.5	2.6	2.5	2.5	2.1	2.2	2.6	4.8
6-Feb	2.3	2.5	2.7	2.6	2.7	3.5	3.2	2.8	2.8	2.9	2.9	2.9	3.0	3.0	3.0	3.0	2.9	2.9	2.7	2.6	2.6	3.0	3.2	3.3	2.9	3.5
7-Feb	3.8	3.6	3.5	3.1	3.0	3.0	4.3	4.7	4.8	4.5	4.9	5.2	5.7	5.6	4.5	5.5	5.6	5.5	6.5	7.9	7.2	6.8	8.0	9.8	5.3	9.8
8-Feb	11.2	12.0	10.8	10.0	9.8	8.9	7.1	6.9	6.2	6.2	6.3	5.7	5.2	6.1	7.9	7.2	6.6	6.6	7.7	7.9	8.7	5.7	4.6	4.8	7.5	12.0
9-Feb	4.7	5.3	5.3	5.3	5.0	4.8	4.8	4.6	4.1	4.3	4.3	5.2	5.5	5.1	5.5	5.4	5.7	5.4	5.1	4.8	4.3	4.3	3.9	3.9	4.9	5.7
10-Feb	3.9	4.1	4.8	5.9	6.0	5.6	6.4	7.6	8.2	8.1	7.2	6.6	6.9	7.3	6.7	6.1	6.1	6.1	5.8	5.2	4.6	4.2	3.4	2.8	5.8	8.2
11-Feb	2.0	2.0	2.1	2.1	2.4	1.8	1.3	1.2	1.2	1.3	1.2	1.0	4.1	2.8	0.7	0.7	0.7	0.7	16.4	142.9	124.8	9.9	46.1	32.1	16.7	142.9
12-Feb	2.4	6.2	7.0	7.4	16.0	11.7	7.2	3.9	6.3	3.5	7.6	109.0	103.2	72.7	12.5	1.1	2.7	1.3	1.5	3.1	51.6	22.7	11.1	4.0	19.8	109.0
13-Feb	2.9	2.9	3.0	2.9	2.7	2.6	2.5	2.7	2.8	2.4	2.2	4.1	13.4	12.2	4.9	4.8	5.7	4.1	3.8	5.3	3.4	3.9	4.5	4.1	4.3	13.4
14-Feb	4.2	4.2	3.9	6.1	3.4	4.6	4.6	6.7	8.7	5.9	4.2	4.3	3.4	2.2	1.9	2.0	2.6	3.3	3.9	3.4	2.8	3.2	5.0	4.5	4.1	8.7
15-Feb	3.5	2.5	1.4	2.1	3.3	5.3	4.5	2.9	2.8	3.4	3.8	3.9	3.9	4.2	3.9	3.6	3.3	3.0	2.8	3.5	5.4	5.7	4.2	4.0	3.6	5.7
16-Feb	3.2	2.7	2.6	2.5	2.7	4.3	4.4	9.6	6.2	5.5	2.9	1.8	1.6	1.6	1.6	1.4	1.3	1.3	1.5	2.3	1.8	2.0	2.2	2.3	2.9	9.6
17-Feb	2.1	2.1	2.1	2.3	2.8	4.1	3.7	3.2	3.0	2.9	2.6	2.2	2.0	2.1	2.1	2.2	2.1	1.9	2.0	1.8	1.8	1.6	1.5	1.6	2.3	4.1
18-Feb	1.8	1.7	1.8	1.9	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	1.8	1.7	1.7	1.6	1.7	2.2	2.7	2.7	2.8	2.8	2.7	2.6	2.0	2.8
19-Feb	2.5	2.6	2.6	2.7	2.7	2.6	2.4	1.8	1.8	1.6	1.2	2.0	5.0	2.0	1.2	1.2	1.3	1.2	1.1	1.0	0.9	0.9	1.2	1.6	1.9	5.0
20-Feb	2.0	2.2	2.1	2.1	2.4	2.7	3.4	4.1	4.8	4.2	3.5	2.8	2.8	2.9	2.9	2.7	2.6	2.5	2.8	2.3	2.1	2.1	2.8	2.9	2.8	4.8
21-Feb	3.6	2.9	2.8	2.5	2.4	2.3	2.4	2.4	2.3	2.4	1.9	1.4	1.4	1.8	2.0	2.4	2.5	2.5	2.5	2.5	2.5	2.3	2.0	2.0	2.3	3.6
22-Feb	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.6	1.5	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5	2.0
23-Feb	1.3	1.5	1.4	1.4	1.3	1.3	1.2	1.1	1.1	1.4	1.5	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1.1	1.3	1.3	1.5
24-Feb	1.6	1.7	2.2	2.3	2.1	2.3	2.5	2.6	3.1	3.6	3.4	2.8	2.7	2.5	1.9	1.7	1.6	1.6	1.7	1.9	2.0	1.7	1.4	1.3	2.2	3.6
25-Feb	2.2	3.4	3.9	4.3	4.2	3.6	3.4	3.2	3.1	3.0	4.0	4.6	3.7	3.5	3.4	3.3	3.9	3.9	4.1	3.9	3.9	3.8	3.6	3.5	3.6	4.6
26-Feb	3.5	3.4	3.4	3.3	3.5	3.8	3.5	3.7	3.8	3.6	3.8	3.8	4.1	4.0	3.1	2.6	2.5	2.1	2.1	2.1	1.7	1.6	1.8	1.8	3.0	4.1
27-Feb	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.6	1.7	1.7	1.7	C	C	C	2.2	2.4	2.5	2.5	2.4	2.2	2.0	2.0	2.0	2.0	1.9	2.5
28-Feb	1.9	2.0	2.6	1.9	1.6	1.4	1.3	1.2	1.5	1.4	1.8	1.9	2.4	2.4	2.9	3.7	3.8	3.8	4.2	6.9	6.4	22.5	38.9	30.8	6.2	38.9
	3.3	3.6	3.5	3.6	3.8	3.8	3.6	3.7	3.6	3.4	3.3	7.1	7.3	6.0	3.4	3.0	3.1	2.9	3.5	8.3	9.2	4.5	6.0	5.2	Diurnal Average	
	11.2	12.0	10.8	10.0	16.0	11.7	7.9	9.6	8.7	8.1	7.8	109.0	103.2	72.7	12.5	7.4	8.3	6.6	16.4	142.9	124.8	22.7	46.1	32.1	Diurnal Maximum	

C - Calibration

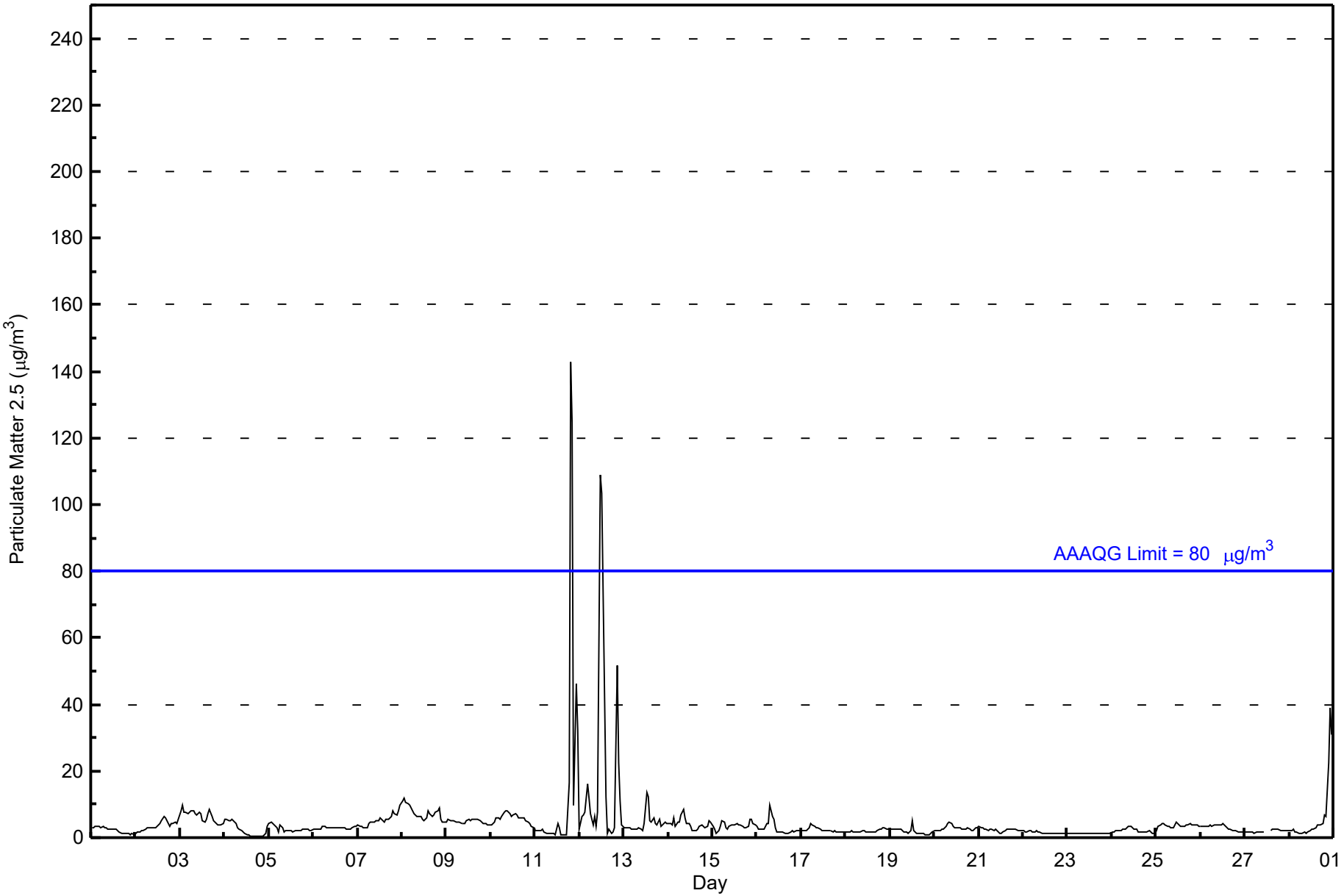
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Surmont 2 - February 2026



Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Surmont 2 - February 2026

Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	565	84.45	84.45
6 - 15	90	13.45	97.91
16 - 25	4	0.60	98.51
26 - 80	6	0.90	99.40
> 81.0	4	0.60	100.00

Total Number of Valid Hours: 669

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Surmont 2 - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	30	33	13	21	17	66	41	18	13	7	14	79	64	28	16	70	530
6 - 15	4	5	4	1	0	11	18	3	3	0	4	9	5	2	5	13	87
16 - 25	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	4
26 - 80	0	0	0	0	0	0	0	0	0	1	0	5	0	0	0	0	6
> 81.0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
Totals	34	38	17	22	17	77	59	21	16	8	18	100	69	31	21	83	631

Total Number of Valid Hours: 631

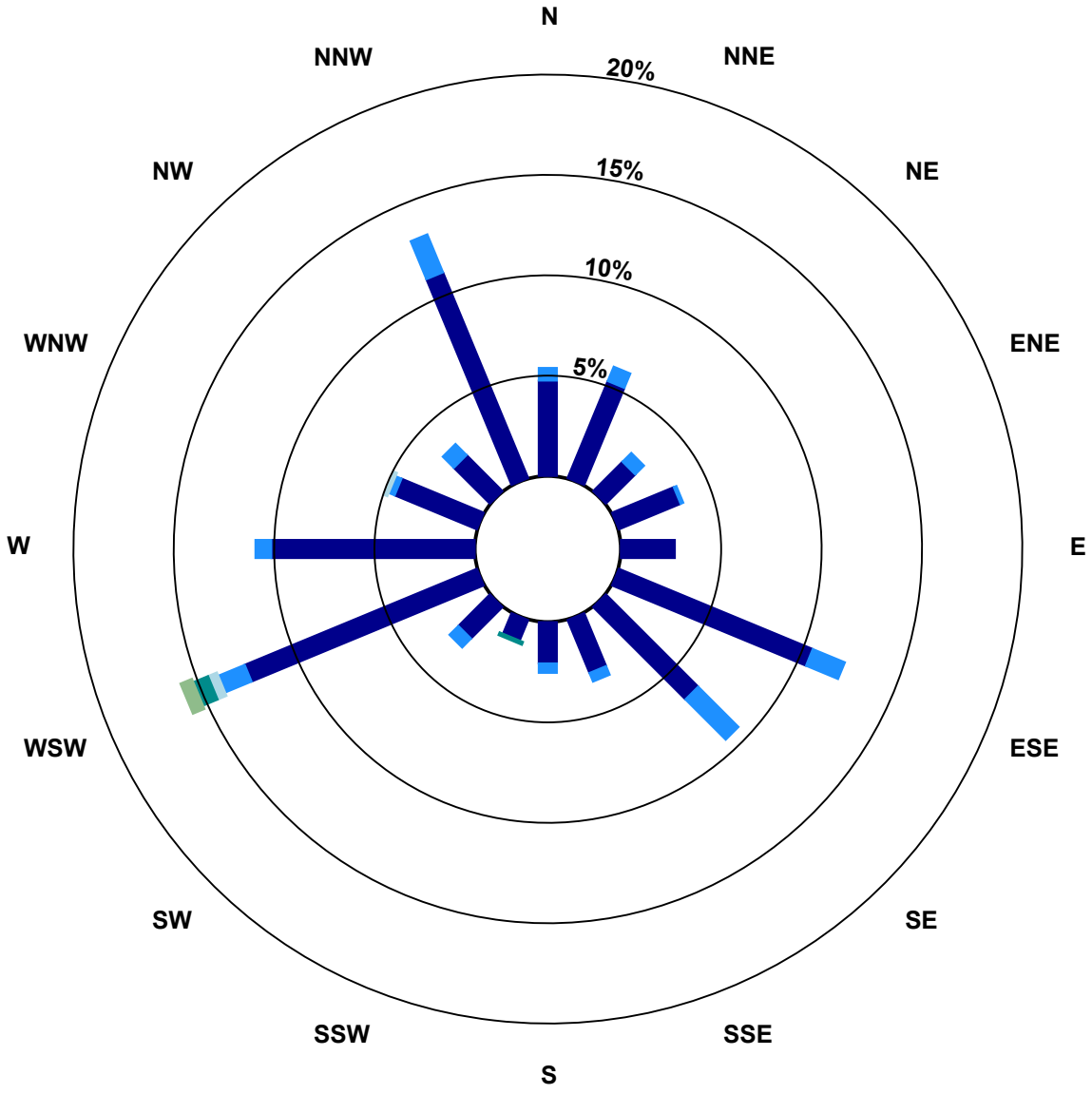
Total Number of Hours: 672

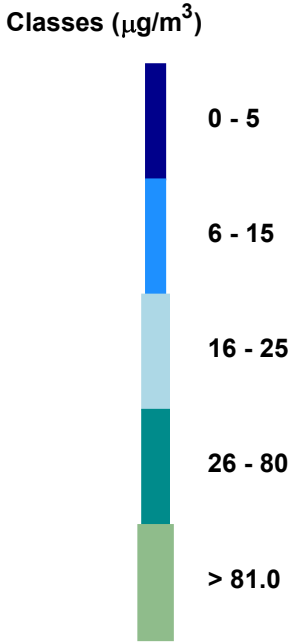
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Surmont 2





Total Number of Valid Hours: 631

Maximum Value: 8.6 C on Feb 4 15:00

Maximum Daily Average: 3.3 C on Feb 4

Minimum Value: -39.4 C on Feb 19 06:00

Minimum Daily Average: -30.8 C on Feb 18

Maximum Diurnal Average: -9.7 C at hour 15

Minimum Diurnal Average: -15.8 C at hour 8

Monthly Average: -13.13 C

Percentiles: P_1 = -37.7 P_{10} = -27.8 Q_1 = -20.7 Median = -12.0 Q_3 = -5.2 P_{90} = 0.3 P_{99} = 5.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

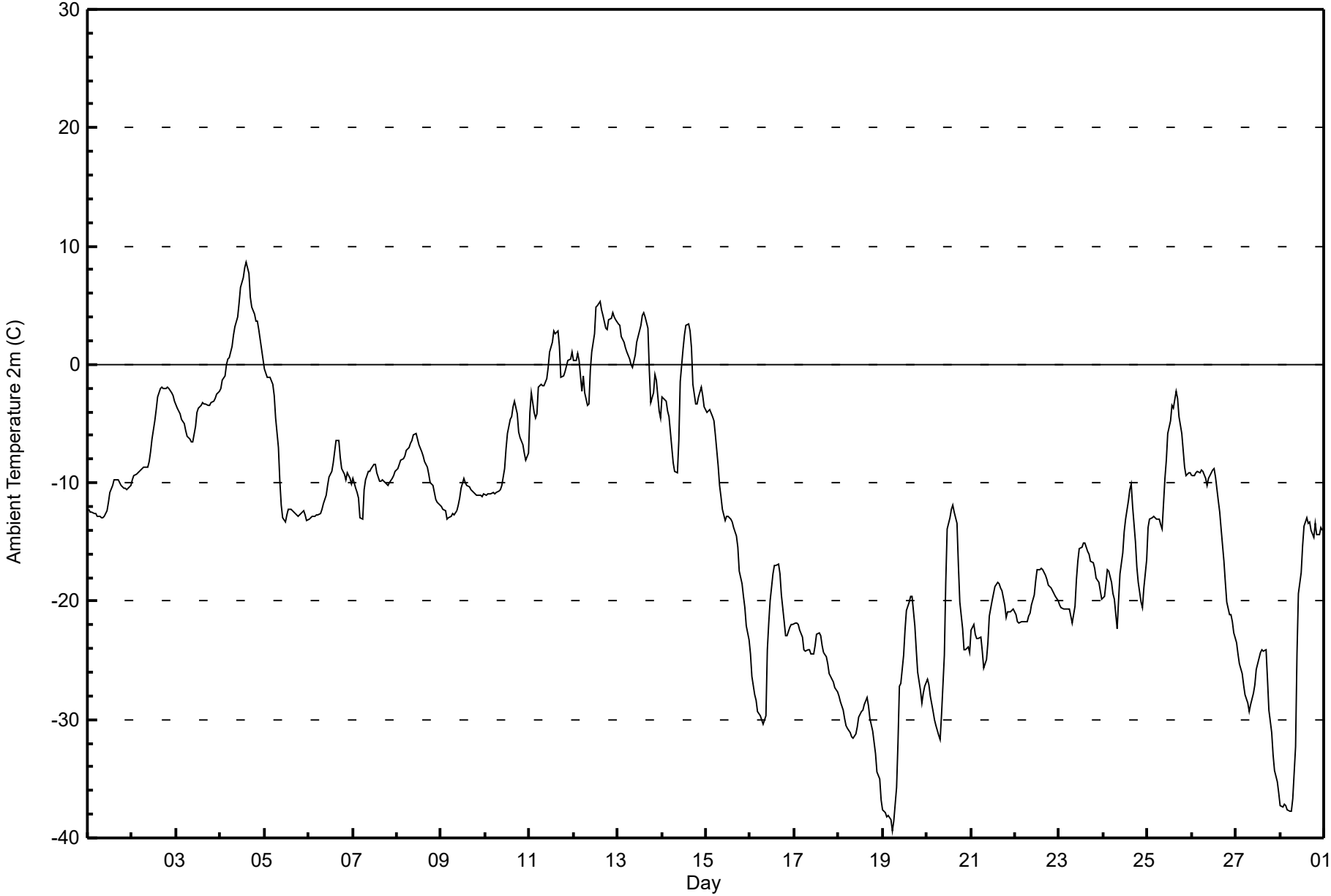
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.3	-12.5	-12.5	-12.6	-12.6	-12.9	-12.8	-12.9	-13.0	-12.8	-12.4	-11.7	-10.8	-10.2	-9.7	-9.7	-9.8	-10.0	-10.2	-10.5	-10.5	-10.5	-10.4	-10.2	-11.4	-9.7
2-Feb	-9.8	-9.4	-9.3	-9.2	-9.1	-8.8	-8.6	-8.7	-8.7	-8.2	-7.4	-6.3	-4.7	-3.8	-2.7	-2.0	-1.9	-2.0	-2.0	-1.9	-2.0	-2.4	-2.6	-3.1	-5.6	-1.9
3-Feb	-3.7	-3.9	-4.2	-4.7	-5.0	-5.6	-6.1	-6.3	-6.5	-6.5	-5.3	-4.1	-3.7	-3.4	-3.3	-3.4	-3.3	-3.5	-3.5	-3.3	-3.0	-2.8	-2.5	-2.2	-4.2	-2.2
4-Feb	-2.1	-1.4	-0.9	0.0	0.5	0.6	1.6	2.5	3.2	4.0	5.2	6.5	7.4	8.2	8.6	7.7	5.6	4.9	4.3	3.6	3.7	2.9	1.3	0.4	3.3	8.6
5-Feb	-0.3	-1.1	-1.0	-1.1	-1.6	-2.6	-4.5	-7.1	-9.9	-11.9	-13.0	-13.3	-12.8	-12.3	-12.2	-12.4	-12.5	-12.7	-12.9	-12.8	-12.5	-12.4	-12.8	-13.2	-9.1	-0.3
6-Feb	-13.1	-13.0	-12.8	-12.8	-12.7	-12.8	-12.6	-12.3	-11.7	-11.0	-10.2	-9.5	-9.0	-8.3	-7.4	-6.4	-6.4	-7.8	-8.8	-9.3	-9.8	-9.2	-9.6	-10.1	-10.3	-6.4
7-Feb	-9.6	-10.5	-10.8	-11.3	-12.9	-13.1	-10.5	-9.8	-9.1	-9.0	-8.8	-8.4	-8.4	-9.1	-9.8	-9.9	-9.8	-9.9	-10.1	-10.2	-10.0	-9.7	-9.4	-9.1	-10.0	-8.4
8-Feb	-8.8	-8.4	-8.1	-8.0	-7.7	-7.2	-7.0	-6.7	-6.4	-5.9	-5.8	-6.3	-6.8	-7.3	-7.8	-8.2	-8.6	-9.3	-9.9	-10.2	-10.8	-11.4	-11.6	-11.9	-8.3	-5.8
9-Feb	-12.0	-12.3	-12.3	-13.1	-13.0	-12.8	-12.6	-12.8	-12.4	-11.9	-11.3	-10.5	-9.6	-10.0	-10.2	-10.3	-10.5	-10.7	-10.9	-11.1	-11.1	-11.1	-11.1	-11.0	-11.4	-9.6
10-Feb	-11.0	-11.0	-10.9	-10.9	-10.8	-10.9	-10.8	-10.7	-10.6	-10.3	-8.8	-7.1	-5.8	-4.7	-4.4	-3.6	-3.1	-4.2	-5.7	-6.2	-6.8	-7.5	-8.1	-7.5	-8.0	-3.1
11-Feb	-4.0	-2.4	-4.1	-4.6	-4.2	-1.9	-1.7	-1.8	-1.8	-1.2	-0.2	1.1	1.8	2.8	2.6	2.8	1.5	-1.0	-1.0	-0.6	-0.1	0.4	0.4	1.1	-0.7	2.8
12-Feb	0.3	0.3	0.9	0.3	-2.2	-1.0	-2.4	-3.4	-3.3	-0.5	1.1	2.6	4.8	4.9	5.3	4.6	4.2	3.0	3.0	3.7	3.8	4.4	4.0	3.8	1.8	5.3
13-Feb	3.5	3.3	2.4	1.9	1.4	1.0	0.5	0.0	-0.2	0.8	1.9	2.4	3.3	4.1	4.3	4.0	3.1	-0.4	-3.2	-2.4	-0.9	-1.3	-3.9	-4.5	0.9	4.3
14-Feb	-2.7	-3.0	-3.1	-3.9	-4.4	-7.0	-8.3	-9.1	-9.1	-6.4	-1.4	1.3	2.4	3.3	3.4	2.9	1.4	-1.7	-3.3	-3.3	-2.7	-1.9	-2.6	-3.6	-2.6	3.4
15-Feb	-4.0	-3.9	-3.8	-4.4	-4.7	-6.0	-8.6	-10.2	-11.2	-12.2	-13.2	-12.8	-12.8	-13.0	-13.3	-13.8	-14.5	-15.4	-17.5	-18.5	-19.6	-20.5	-22.0	-23.3	-12.5	-3.8
16-Feb	-24.5	-26.3	-27.9	-28.4	-29.3	-29.7	-30.1	-30.4	-29.7	-24.1	-21.9	-19.9	-17.7	-17.0	-17.0	-16.9	-17.7	-19.5	-21.8	-22.9	-22.9	-22.2	-22.0	-22.0	-23.4	-16.9
17-Feb	-21.9	-21.8	-22.0	-22.4	-23.0	-24.1	-24.2	-24.1	-24.1	-24.4	-24.5	-23.7	-22.7	-22.7	-23.0	-23.7	-24.4	-24.7	-25.3	-26.1	-26.6	-26.9	-27.3	-27.7	-24.2	-21.8
18-Feb	-28.0	-28.5	-29.2	-29.9	-30.5	-30.7	-31.2	-31.5	-31.6	-31.2	-30.7	-29.8	-29.3	-29.2	-28.8	-28.2	-28.9	-29.9	-31.0	-31.9	-32.9	-34.4	-35.0	-36.9	-30.8	-28.0
19-Feb	-37.6	-37.8	-38.2	-38.2	-38.5	-39.4	-38.6	-35.7	-31.9	-27.2	-27.0	-24.6	-22.4	-20.8	-20.0	-19.6	-19.6	-22.1	-24.1	-26.0	-27.5	-28.6	-27.8	-27.2	-29.2	-19.6
20-Feb	-26.6	-27.1	-28.0	-29.3	-30.0	-30.6	-31.3	-31.7	-29.5	-24.6	-18.4	-14.0	-13.0	-12.3	-11.9	-12.4	-13.4	-17.0	-20.1	-22.4	-24.1	-24.1	-23.9	-24.4	-22.5	-11.9
21-Feb	-22.4	-21.9	-22.8	-23.2	-23.1	-23.1	-24.3	-25.7	-25.0	-23.5	-21.3	-19.9	-19.3	-18.7	-18.5	-18.5	-18.9	-19.1	-20.4	-21.4	-21.0	-20.9	-20.7	-20.7	-21.4	-18.5
22-Feb	-21.1	-21.7	-21.8	-21.8	-21.7	-21.7	-21.7	-21.3	-21.1	-20.3	-19.4	-18.3	-17.3	-17.4	-17.3	-17.4	-17.8	-18.2	-18.6	-18.9	-19.2	-19.3	-19.6	-19.9	-19.7	-17.3
23-Feb	-20.3	-20.6	-20.7	-20.7	-20.6	-20.7	-21.3	-21.9	-20.5	-18.1	-16.6	-15.5	-15.4	-15.1	-15.0	-15.9	-16.0	-16.6	-16.8	-17.2	-18.0	-18.4	-19.1	-19.8	-18.4	-15.0
24-Feb	-19.6	-18.6	-17.3	-17.5	-18.4	-19.3	-19.8	-22.3	-19.9	-17.7	-16.0	-14.2	-13.1	-11.6	-10.6	-10.1	-12.1	-15.0	-17.1	-18.4	-20.0	-20.6	-18.8	-16.6	-16.9	-10.1
25-Feb	-13.7	-13.0	-13.0	-12.9	-12.9	-13.0	-13.0	-13.6	-13.9	-9.7	-8.1	-5.8	-4.7	-3.5	-3.7	-2.2	-2.8	-4.4	-5.8	-7.2	-8.7	-9.4	-9.1	-9.1	-8.9	-2.2
26-Feb	-9.4	-9.4	-9.2	-9.0	-9.2	-8.9	-9.0	-9.6	-10.3	-9.6	-9.3	-8.9	-8.8	-9.5	-11.5	-12.5	-13.9	-16.6	-18.4	-20.0	-21.1	-21.1	-21.7	-22.6	-12.9	-8.8
27-Feb	-23.5	-24.4	-25.2	-26.2	-27.0	-27.9	-28.7	-29.3	-28.8	-27.8	-27.0	-25.7	-24.9	-24.3	-24.1	-24.2	-24.1	-26.6	-29.2	-31.1	-32.9	-34.3	-35.2	-36.2	-27.9	-23.5
28-Feb	-37.3	-37.4	-37.2	-37.3	-37.6	-37.8	-37.7	-36.6	-32.3	-24.5	-19.3	-17.6	-15.3	-13.7	-12.9	-13.4	-13.3	-14.1	-14.6	-13.4	-14.4	-14.4	-13.8	-14.0	-23.3	-12.9
	-14.1	-14.2	-14.4	-14.7	-15.0	-15.3	-15.6	-15.8	-15.3	-13.8	-12.5	-11.2	-10.3	-9.8	-9.7	-9.7	-10.3	-11.6	-12.7	-13.2	-13.6	-13.8	-14.1	-14.3	Diurnal Average	
	3.5	3.3	2.4	1.9	1.4	1.0	1.6	2.5	3.2	4.0	5.2	6.5	7.4	8.2	8.6	7.7	5.6	4.9	4.3	3.7	3.8	4.4	4.0	3.8	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Surmont 2 - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	184	27.38	27.38
-20 - 0	419	62.35	89.73
0 - 10	69	10.27	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 100.1 % on Feb 5 06:00

Maximum Daily Average: 94.0 % on Feb 3

Minimum Value: 34.3 % on Feb 13 15:00

Minimum Daily Average: 45.7 % on Feb 13

Maximum Diurnal Average: 81.4 % at hour 8

Minimum Diurnal Average: 70.4 % at hour 14

Monthly Average: 77.68 %

Percentiles: P_1 = 41.7 P_{10} = 58.1 Q_1 = 70.2 Median = 78.8 Q_3 = 89.9 P_{90} = 93.1 P_{99} = 97.6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

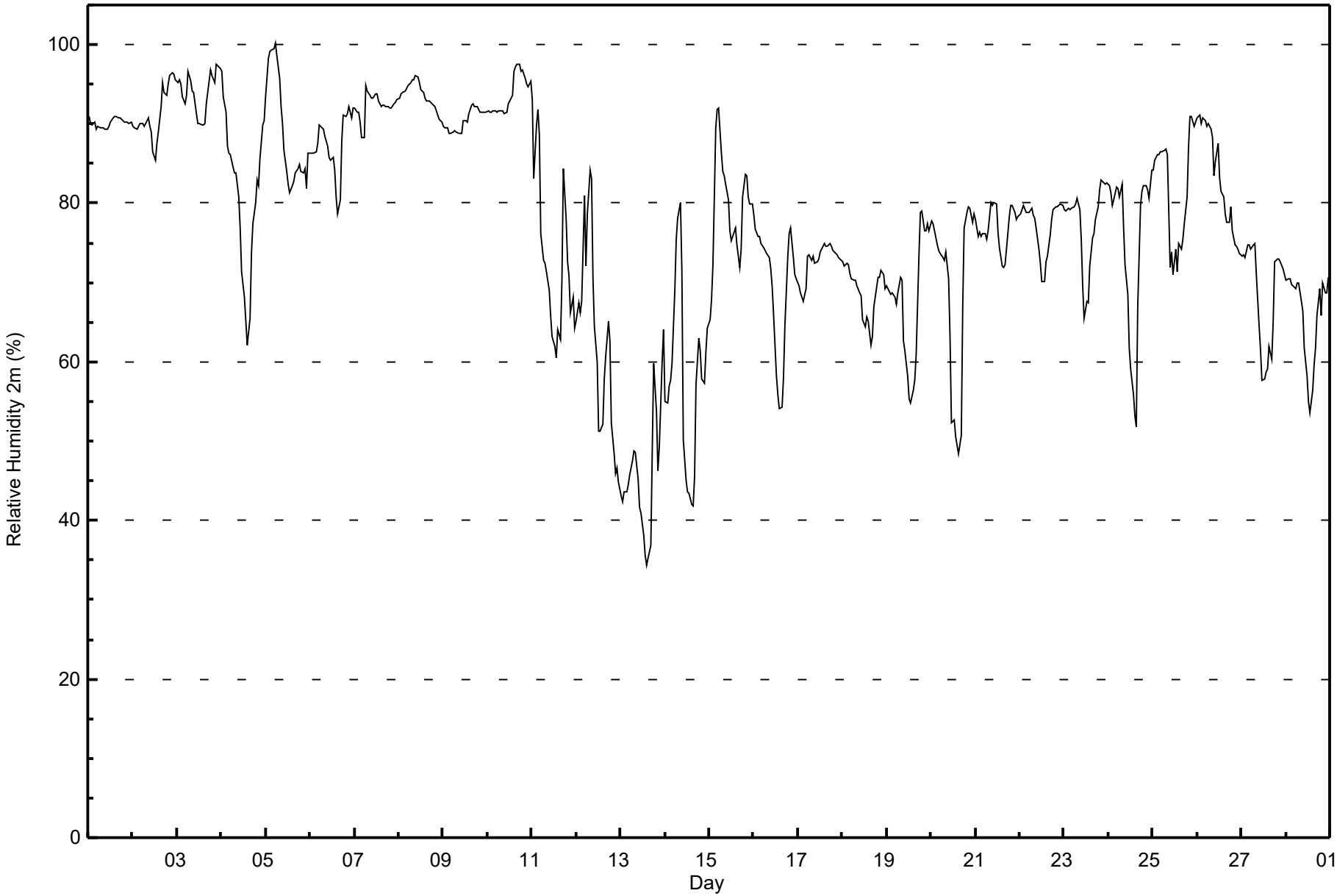
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	90.9	90.1	89.8	90.2	89.3	89.7	89.6	89.5	89.5	89.3	89.3	89.7	90.2	90.7	91.0	90.9	90.8	90.8	90.5	90.2	90.3	90.2	90.1	90.2	90.1	91.0
2-Feb	89.7	89.5	89.4	89.6	90.0	90.0	89.6	90.0	90.8	89.7	89.0	86.5	85.5	87.6	88.9	92.2	95.2	93.9	93.7	95.0	96.0	96.4	96.4	95.5	91.3	96.4
3-Feb	95.2	95.5	95.0	93.5	92.6	93.5	96.7	95.3	94.1	94.0	91.3	90.1	90.1	89.8	89.9	90.1	92.6	95.4	96.9	96.2	95.2	97.6	97.4	97.0	94.0	97.6
4-Feb	96.6	93.5	91.5	87.2	86.3	86.2	84.5	83.8	83.9	80.9	76.8	71.4	68.1	65.1	62.1	65.4	73.6	77.4	80.1	82.9	82.3	85.6	89.8	90.3	81.1	96.6
5-Feb	93.4	98.3	99.1	99.4	99.4	100.1	98.6	95.8	92.3	90.0	86.8	84.0	82.5	81.3	82.3	82.8	83.9	84.3	84.9	84.1	83.9	84.4	82.0	86.4	89.1	100.1
6-Feb	86.3	86.2	86.3	86.6	87.6	89.9	89.6	89.3	88.4	87.2	85.8	85.4	85.8	84.2	80.9	78.7	80.4	87.9	91.2	90.9	91.2	92.2	90.8	92.0	87.3	92.2
7-Feb	91.9	91.5	91.4	90.2	88.2	88.2	94.8	94.2	93.6	93.2	93.3	93.8	93.7	92.8	92.1	92.3	92.4	92.3	92.2	92.0	92.1	92.5	92.8	93.1	92.3	94.8
8-Feb	93.3	93.8	94.0	94.1	94.4	94.9	95.1	95.5	95.7	96.2	95.9	95.3	94.4	94.0	93.3	93.0	92.9	92.8	92.6	92.2	91.7	91.1	90.6	90.2	93.6	96.2
9-Feb	89.7	89.5	89.5	88.8	88.8	88.9	89.1	88.9	88.9	88.7	88.8	90.4	90.5	90.3	91.3	92.3	92.5	92.1	92.2	91.9	91.5	91.4	91.5	91.4	90.4	92.5
10-Feb	91.7	91.5	91.5	91.6	91.7	91.4	91.6	91.6	91.6	91.3	91.4	92.6	92.8	93.6	96.6	97.2	97.6	97.5	96.7	96.9	95.8	95.1	94.6	95.3	93.7	97.6
11-Feb	93.0	83.1	90.0	91.9	88.6	76.1	72.8	72.4	71.4	69.1	65.9	63.2	61.9	60.5	64.1	62.8	70.3	84.4	77.9	72.6	70.9	66.3	68.2	64.3	73.4	93.0
12-Feb	65.1	67.4	66.2	67.7	80.9	72.1	78.6	84.1	83.1	70.5	64.4	60.0	51.3	51.2	52.1	57.9	60.7	65.1	62.7	52.3	48.3	45.9	46.6	44.8	62.5	84.1
13-Feb	43.1	42.3	43.6	43.6	44.6	45.7	47.6	48.7	48.6	45.1	41.7	40.9	38.1	35.6	34.3	35.2	36.9	48.7	59.8	53.7	46.3	49.3	59.9	64.0	45.7	64.0
14-Feb	54.9	54.9	57.0	57.7	59.8	69.1	75.5	78.1	80.1	71.4	50.1	44.9	43.6	43.4	41.9	41.8	45.6	57.2	63.1	61.4	57.8	57.4	61.3	64.3	58.0	80.1
15-Feb	65.4	67.8	72.2	89.6	91.8	92.0	86.3	84.1	83.5	82.4	80.4	76.6	75.3	76.3	77.0	74.7	71.9	74.2	80.8	83.7	83.5	80.8	79.9	79.9	79.6	92.0
16-Feb	78.5	76.8	75.9	75.8	74.9	74.4	74.1	73.6	73.2	71.6	69.4	65.8	58.3	55.8	54.1	54.3	58.0	64.7	73.1	76.1	76.8	73.2	71.0	70.5	69.6	78.5
17-Feb	69.6	68.7	68.1	67.6	69.2	73.3	73.5	72.7	73.3	72.5	72.6	73.0	73.8	74.6	75.0	74.6	74.6	75.0	74.6	74.1	73.7	73.5	73.1	72.9	72.6	75.0
18-Feb	72.5	72.1	72.5	72.3	71.1	70.6	70.4	70.3	69.6	68.8	68.4	65.4	64.5	65.7	65.1	62.0	63.3	66.9	69.4	70.7	70.6	71.5	71.0	69.3	68.9	72.5
19-Feb	69.7	68.9	68.5	68.6	68.2	67.2	68.6	70.6	70.3	62.6	61.3	58.1	55.4	54.8	56.4	57.7	60.9	73.5	78.8	78.9	76.6	76.5	77.4	76.5	67.8	78.9
20-Feb	77.9	77.4	76.6	74.8	74.1	73.7	73.1	72.9	73.8	70.5	63.1	52.4	52.7	50.6	49.4	48.4	50.7	67.0	76.9	78.8	79.6	79.3	77.6	78.7	68.7	79.6
21-Feb	77.9	75.8	76.3	75.8	76.1	76.1	75.4	76.5	80.2	79.6	80.0	79.9	76.3	74.4	72.1	71.9	72.3	74.2	78.3	79.7	79.7	78.8	78.0	78.4	76.8	80.2
22-Feb	78.6	79.3	79.7	78.9	78.8	78.8	79.3	78.6	78.1	76.8	74.3	72.4	70.1	70.0	72.6	73.3	75.9	77.9	79.2	79.6	79.5	79.7	79.9	79.8	77.1	79.9
23-Feb	79.3	78.9	79.4	79.1	79.3	79.6	79.9	80.6	79.2	75.5	69.5	65.5	67.7	67.4	72.1	75.6	76.2	78.0	79.5	81.8	82.9	82.6	82.4	82.5	77.3	82.9
24-Feb	82.2	81.3	79.8	80.4	82.1	82.0	80.9	82.5	76.9	72.2	68.4	61.7	59.1	55.9	53.2	51.8	67.0	79.8	81.5	82.3	82.3	81.6	80.6	84.1	74.6	84.1
25-Feb	84.2	85.4	86.1	86.2	86.5	86.5	86.7	86.8	86.2	71.9	73.8	70.9	74.2	71.3	74.9	74.1	75.5	77.4	80.8	87.1	90.9	91.0	89.7	90.2	82.0	91.0
26-Feb	90.8	91.2	90.1	90.8	90.4	89.8	90.0	89.3	88.3	83.4	85.2	87.6	83.2	81.6	80.7	78.6	77.6	77.6	79.5	76.6	74.7	74.6	74.1	73.6	83.3	91.2
27-Feb	73.3	73.4	73.2	74.8	74.8	74.3	74.7	74.9	71.2	64.6	61.6	57.6	57.8	58.8	59.1	61.9	60.3	65.1	72.6	73.0	73.0	72.6	71.8	70.9	68.6	74.9
28-Feb	70.3	70.5	70.5	69.8	69.6	69.3	69.9	70.0	67.6	66.3	61.8	58.1	55.0	53.6	56.4	59.7	61.8	65.8	69.1	65.8	70.0	68.7	68.7	70.6	65.8	70.6
	80.2	79.8	80.1	80.6	81.0	80.8	81.3	81.4	80.8	77.7	75.0	72.6	71.1	70.4	70.7	71.1	73.3	77.7	80.3	80.0	79.5	79.3	79.5	79.9	Diurnal Average	
	96.6	98.3	99.1	99.4	99.4	100.1	98.6	95.8	95.7	96.2	95.9	95.3	94.4	94.0	96.6	97.2	97.6	97.5	96.9	96.9	96.0	97.6	97.4	97.0	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Surmont 2 - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	5	0.74	0.74
40 - 60	71	10.57	11.31
60 - 80	292	43.45	54.76
80 - 100	303	45.09	99.85

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Surmont 2 - February 2026

Maximum Speed: 15 km/h on Feb 11 09:00

Maximum Daily Speed Average: 10.4 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 9 05:00

Minimum Daily Speed Average: 0.4 km/h on Feb 20

Maximum Diurnal Speed Average: 1.9 km/h at hour 10

Minimum Diurnal Speed Average: 0.7 km/h at hour 5

Monthly Average Velocity: 1.2 km/h 300.5 deg

Percentiles: $P_1 = 0$ $P_{10} = 2$ $Q_1 = 3$ Median = 5 $Q_3 = 7$ $P_{90} = 10$ $P_{99} = 14$

Hours in Service: 672

Hours of Data: 634

Hours of Missing Data: 38

Percent Operational Time: 94.4

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE5	E3	E3	ESE4	ESE3	ESE4	ESE5	ESE5	ESE6	ESE7	ESE7	SE7	SE6	SE5	ESE6	ESE7	ESE7	ESE7	ESE6	SE6	SE7	SE6	SE6	SE6	ESE5.3	ESE7
2-Feb	SE5	SE5	SE6	SE5	ESE5	SE5	SE6	SE5	SE5	SSE5	SE5	SE5	SE6	SE5	SSE3	SW2	WSW3	NW3	WNW5	WNW4	NNW2	NW4	NNW4	N6	SE2.0	SE6
3-Feb	NNW4	NNW4	NNW5	NNW5	NNW6	NNW7	NNW5	NNW5	NNE3	WNW3	S1	WSW3	W5	W4	S2	SE4	SE5	SSE7	SSE7	S7	SSE7	SSE7	SSE8	SE8	SSW0.7	SE8
4-Feb	SE9	SE8	SSE8	S5	S6	SSW6	WSW8	W9	WNW10	W14	W13	W13	WSW13	W11	WNW12	W8	WSW7	WSW7	W6	W6	W7	W4	NNE3	NE3	WSW5.7	W14
5-Feb	NE4	ENE3	NNE3	N4	N7	N8	NNW8	NNW9	NNW10	NNW8	NNW11	NNW8	NNW8	N6	NNE5	NNE5	NNE4	NE4	NE3	E2	E1	ENE3	E4	ESE5	N4.4	NNW11
6-Feb	SE5	SE5	SE6	ESE6	ESE7	SE7	SE7	ESE7	SE7	SE6	SE8	ESE8	ESE7	ESE9	ESE9	SE7	ESE4	ESE3	SSE1	S0	UO	SSW1	SSW1	S3	SE5.3	ESE9
7-Feb	SSE4	WSW1	WNW3	WNW2	WSW0	W2	NW2	WNW2	NW3	NNW5	NNW3	NNW3	NE5	NNE5	NNE5	N2	NNE2	NE3	NNE3	ENE1	ESE2	ESE3	ESE3	ESE2	NNE1.3	NE5
8-Feb	ESE2	ESE3	SE3	SE2	SE3	SE4	SE4	ESE3	SE3	NE1	NNW4	N4	NNE4	NNW5	NW7	NNW6	NNW5	NNW5	NW3	NE4	N4	N5	NNW5	NNW5	N1.8	NW7
9-Feb	NNW3	ENE2	ENE1	NE1	ENE0	E2	ESE2	ESE3	ESE3	ESE4	SE4	ESE5	E4	ENE5	ENE3	NNE3	NNE3	NE3	NE4	NNE3	ENE3	ENE3	E3	ESE2	ENE2.3	ENE5
10-Feb	ESE3	ESE3	ESE3	ESE4	ESE3	ESE4	ESE4	SE4	SE4	SE4	SE4	SE5	SE5	SE6	SE5	SE4	SE3	SSE2	SW1	WNW1	UO	SE1	SSE3	SSW1	SE3.1	SE6
11-Feb	W6	W7	W3	W3	SSE3	W10	WSW14	WSW15	WSW15	WSW12	WSW14	W13	WSW13	WSW13	WSW9	WSW11	WSW7	SW5	WSW6	W6	WSW6	WSW7	WSW7	WSW8	WSW8.7	WSW15
12-Feb	WSW9	WSW8	WSW8	W7	WNW3	WNW7	NW3	NNW3	NW3	WNW8	W5	WSW4	WSW6	WSW10	WSW7	SSW5	S4	SSE3	S6	S9	SSW8	WSW10	WSW9	W11	WSW5.2	W11
13-Feb	W12	W14	WSW12	W12	W12	W14	W13	W13	WNW8	WNW8	W11	W12	W10	W12	W14	W11	W8	W3	W2	WSW5	WSW10	WSW8	W3	WSW5	W9.5	W14
14-Feb	WSW8	WSW8	WSW10	WSW11	WSW9	WSW5	SW3	SW1	UO	WSW3	W6	WSW8	W10	W11	W10	W10	W7	WSW4	WSW4	WNW4	WNW5	W6	W5	WSW6	WSW6.5	W11
15-Feb	W5	W5	W7	WNW5	NW1	NNE5	N7	N7	NNW6	NNE6	NNE6	N6	NNE6	N6	N7	NNW8	NNW7	NNW5	WNW3	WNW4	NW4	NW3	WNW2	WNW3	NNW4.2	NNW8
16-Feb	WNW3	W2	UO	UO	UO	UO	UO	UO	UO	NW0	SSE2	ESE5	ENE3	ENE7	ENE7	ENE5	ENE5	E3	NNE0	W1	UO	NW1	NNE2	NNE2	----	ENE7
17-Feb	NNE5	N5	N5	N7	N8	NNW9	NNW9	NNW8	NNW8	NNW10	N10	N10	N12	N13	N13	N15	N13	N12	N13	N14	NNW13	NNW14	NNW14	NNW14	N10.4	N15
18-Feb	NNW13	NNW13	NNW10	NNW12	NNW11	NNW11	NNW10	NNW9	NNW10	NNW9	NNW9	NNW10	NNW9	NNW10	NNW8	NNW9	NNW7	NNW5	NW3	WNW3	W2	WSW1	WSW4	WSW1	NNW7.5	NNW13
19-Feb	UO	WSW1	WSW2	WSW2	SW2	UO	UO	UO	SW1	W8	W7	WSW6	WSW6	WSW7	WSW8	WSW7	WSW5	S1	S1	WSW1	SW1	SSE1	SSE1	S1	WSW3.2	WSW8
20-Feb	W0	UO	WSW1	WSW1	WSW1	WSW1	SW1	SW2	SW2	UO	ESE2	E3	E5	NE5	NNE4	NNE5	NNE4	WNW2	WSW3	WSW2	WSW1	WSW1	WNW2	WNW2	N0.4	NNE5
21-Feb	NW4	NW3	N3	NW4	NW3	NNW5	N6	NNW4	NW3	WNW3	NNW3	NNE5	NNE7	NNE6	NNE7	NE7	N5	NNE3	W2	UO	N1	NNE2	ENE2	E5	N3.1	NNE7
22-Feb	E5	UO	ESE3	E4	ENE2	ENE1	UO	ENE1	E4	ESE8	ESE10	ESE10	ESE11	ESE12	ESE11	ESE13	ESE12	ESE11	ESE11	ESE10	ESE10	ESE9	ESE8	ESE7	ESE7.7	ESE13
23-Feb	ESE7	ESE6	ESE4	SE4	SE2	ESE2	UO	UO	UO	W2	WNW5	NNW2	W4	WNW5	NNE6	NNE5	NE4	NE2	UO	UO	UO	WSW1	UO	UO	----	ESE7
24-Feb	WSW3	WSW4	WSW5	WSW5	WSW4	WSW4	W2	W0	W3	WSW5	WSW7	WSW7	W8	W6	W7	W6	W4	WSW2	SW3	WSW2	SW2	SW2	SW2	SW2	WSW3.9	W8
25-Feb	SSE4	ESE5	ESE5	ESE5	ESE4	SE2	UO	UO	UO	ESE1	SE2	SE3	ESE5	SE5	ESE6	SSE3	NNE4	N3	NNE2	W1	WSW3	WSW1	UO	UO	ESE2.2	ESE6
26-Feb	SW1	UO	ESE0	E1	SE3	ESE4	ESE5	ENE4	ENE4	E5	ESE6	ENE3	N6	NNW10	NNW9	NNW10	NNW8	NW9	NNW10	NNW13	NNW12	NNW13	NNW14	NNW12	N4.8	NNW14
27-Feb	NNW10	NNW9	NNW9	NNW8	NW7	NNW7	NNW6	NW5	NNW5	NNW8	NNW8	NNW8	N7	NNE6	NNE6	NNE6	NE3	NNE2	W1	W2	WSW1	UO	WSW1	WSW2	NNW4.8	NNW10
28-Feb	UO	WSW3	SW3	WSW3	WSW3	WSW1	UO	WSW2	UO	WSW1	SW8	WSW9	S5	WSW8	SSW5	S6	SSE5	SSW3	S3	SW4	SSE3	WSW9	WSW12	WSW8	SW4.2	WSW12
	WNW0.8	W1.2	W1.1	WNW1.2	WNW0.7	WNW1.3	NW1.8	NW1.7	NW1.7	WNW1.9	WNW1.7	WNW1.5	NW1.0	NW1.7	NNW1.6	NNW1.2	N1.2	N0.8	WNW0.8	W1.1	W1.2	W1.4	WNW1.1	WNW0.9	Diurnal Average	
	NNW13	W14	WSW12	W12	W12	W14	WSW14	WSW15	WSW15	W14	WSW14	W13	WSW13	WSW13	W14	N15	N13	N12	N13	N14	NNW13	NNW14	NNW14	NNW14	Diurnal Maximum	

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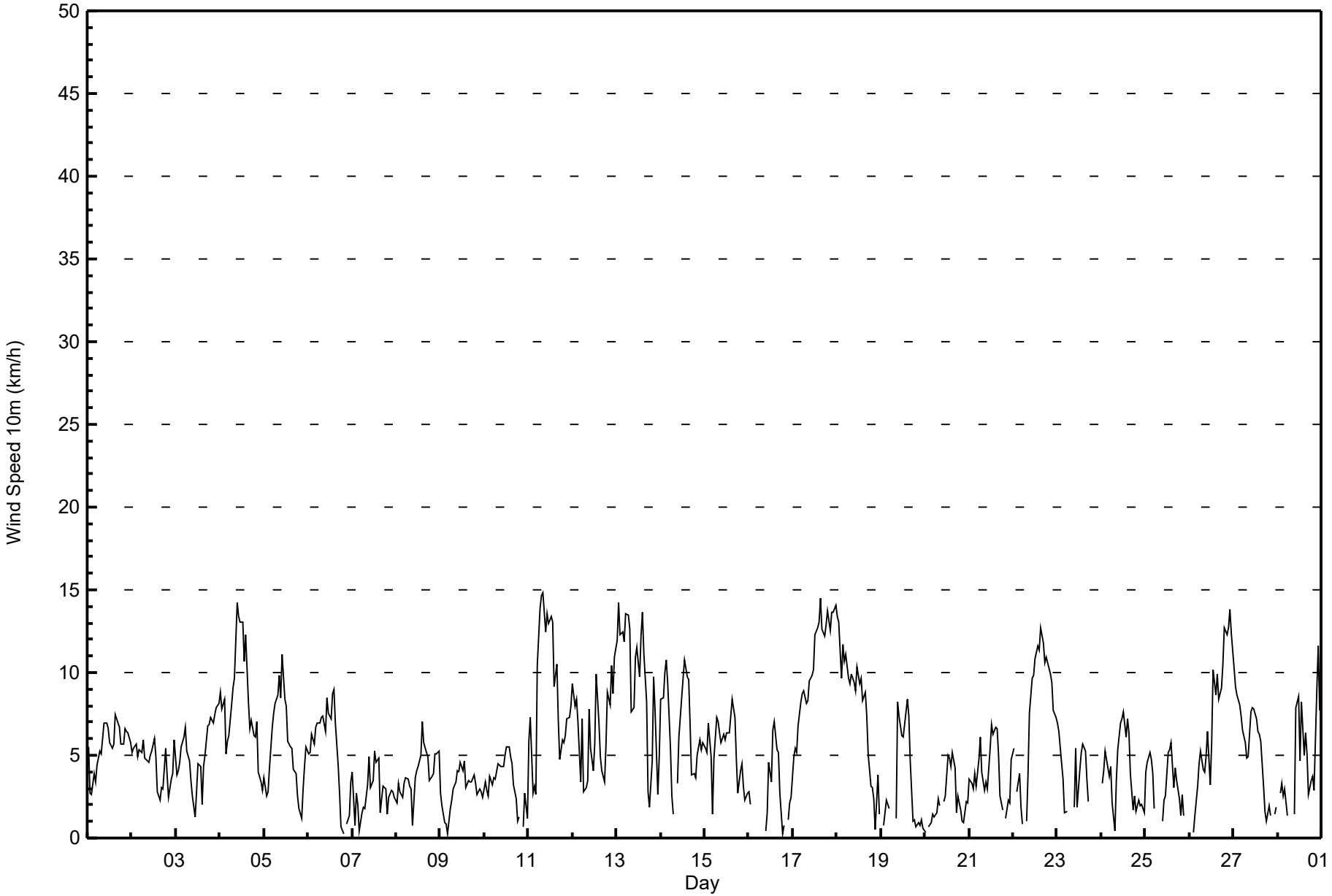
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Surmont 2 - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	368	58.04	58.04
6 - 11	218	34.38	92.43
12 - 19	48	7.57	100.00
20 - 28	0	0.00	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 634

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Surmont 2 - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	11	29	16	20	17	43	38	15	11	6	18	49	26	25	18	26	368
6 - 11	16	10	1	2	0	31	21	6	5	2	0	41	29	5	3	46	218
12 - 19	8	0	0	0	0	3	0	0	0	0	0	10	14	1	0	12	48
20 - 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	35	39	17	22	17	77	59	21	16	8	18	100	69	31	21	84	634

Total Number of Valid Hours: 634

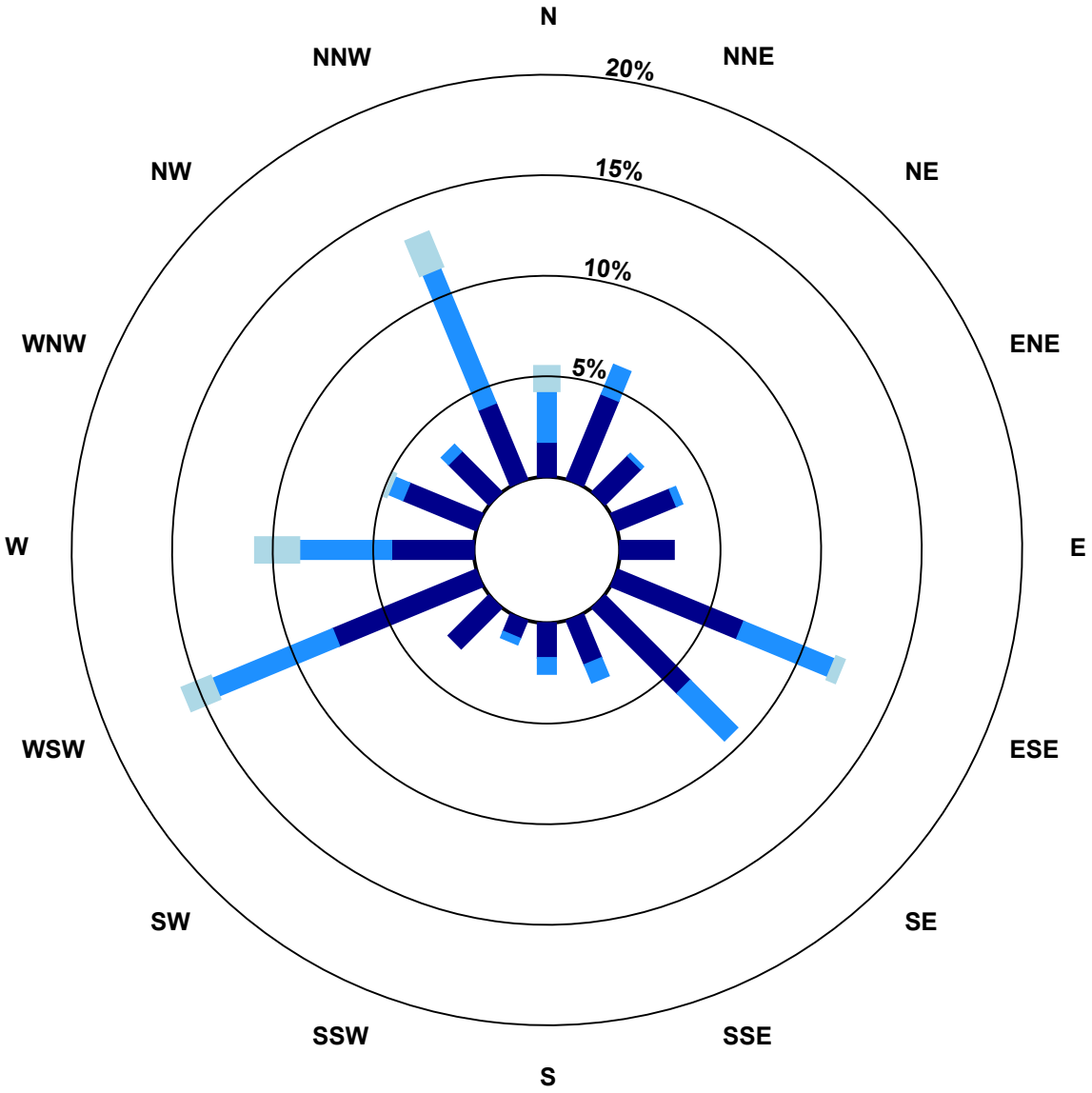
Total Number of Hours: 672

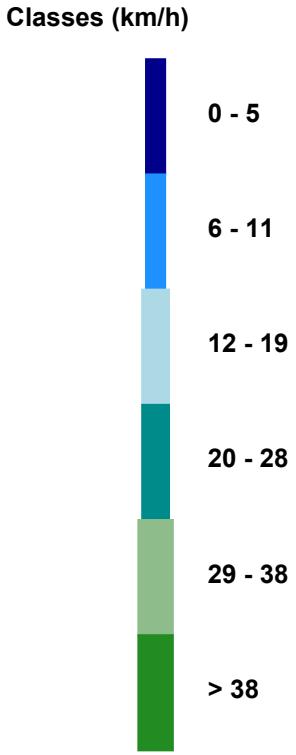
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Surmont 2





Total Number of Valid Hours: 634

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Surmont 2 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 6 km/h on Feb 26 20:00

Minimum Value: 1 km/h on Feb 6 20:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 5

Hours in Service:	672
Hours of Data:	634
Hours of Missing Data:	38
Hours of Calibration:	0
Percent Operational Time:	94.4

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	2	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2-Feb	2	2	2	1	2	2	2	2	2	2	2	2	2	1	1	2	1	2	2	1	1	1	1	2	2
3-Feb	1	2	2	2	2	3	2	2	1	1	2	2	2	2	1	1	2	3	3	3	3	3	3	3	3
4-Feb	3	3	4	3	3	4	3	3	5	5	4	4	4	3	4	3	2	2	2	2	2	3	1	1	5
5-Feb	1	1	2	2	3	3	3	4	5	4	4	3	3	2	2	2	1	1	1	1	1	1	1	1	5
6-Feb	2	2	2	2	2	2	2	2	2	2	3	2	2	3	3	2	1	1	1	1	UO	1	1	2	3
7-Feb	1	1	2	2	1	1	1	1	1	2	1	1	2	2	2	2	1	1	1	1	1	1	1	1	2
8-Feb	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	2	2	2	2	1	1	2	2	2	3
9-Feb	2	2	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	2
10-Feb	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	UO	1	1	1	2
11-Feb	3	2	2	2	2	4	5	5	5	4	5	4	4	5	3	4	3	2	2	2	2	3	3	3	5
12-Feb	3	3	3	3	2	3	2	2	2	3	3	2	4	4	4	2	2	2	3	4	4	5	4	4	5
13-Feb	4	5	4	4	4	5	5	4	4	4	4	3	4	4	5	4	3	2	1	2	2	2	1	3	5
14-Feb	2	2	2	2	2	2	2	1	UO	2	3	3	3	4	4	3	2	1	1	1	2	2	1	1	4
15-Feb	1	1	3	2	2	2	3	2	2	2	2	3	2	2	3	3	3	2	1	1	1	1	1	1	3
16-Feb	1	1	UO	UO	UO	UO	UO	UO	UO	1	2	3	2	2	3	2	2	2	1	1	UO	1	1	1	3
17-Feb	2	2	3	3	3	3	3	3	3	4	4	4	5	5	5	5	5	5	5	5	5	6	5	5	6
18-Feb	5	5	4	5	4	4	4	4	4	4	3	4	4	4	3	4	3	2	2	2	2	1	1	1	5
19-Feb	UO	1	2	2	2	UO	UO	UO	2	4	3	3	3	3	3	3	3	1	1	1	1	1	1	2	4
20-Feb	1	UO	1	1	2	2	2	2	2	UO	1	2	2	2	2	2	2	1	1	1	1	1	1	1	2
21-Feb	2	2	1	2	1	2	3	2	1	1	2	2	3	3	3	3	2	2	1	UO	1	2	1	2	3
22-Feb	2	UO	2	2	1	1	UO	1	1	3	3	3	3	4	3	3	3	3	3	3	3	3	2	2	4
23-Feb	2	2	1	1	2	1	UO	UO	UO	2	2	2	2	2	2	2	1	2	UO	UO	UO	1	UO	UO	2
24-Feb	1	1	1	1	1	1	2	1	2	3	2	2	3	3	3	3	2	2	1	1	2	2	2	1	3
25-Feb	2	2	1	1	1	2	UO	UO	UO	1	1	2	1	2	2	2	2	1	1	1	1	1	UO	UO	2
26-Feb	1	UO	1	1	2	2	2	1	1	2	2	2	2	3	3	4	4	4	5	6	5	5	6	5	6
27-Feb	4	4	4	3	3	3	2	2	3	3	3	4	3	3	3	3	2	2	1	1	2	UO	2	2	4
28-Feb	UO	2	2	2	2	2	UO	2	UO	4	5	4	3	4	3	3	3	2	2	3	2	5	4	4	5
	5	5	4	5	4	5	5	5	5	5	5	4	5	5	5	5	5	5	5	6	5	6	6	5	
	Diurnal Maximum																								

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Surmont 2 - February 2026

Direction of Maximum Speed: 257 deg on Feb 11 09:00
Direction of Maximum Daily Speed Average: 353.2 deg on Feb 17

Direction of Minimum Speed: 65 deg on Feb 9 05:00

Direction of Minimum Daily Speed Average: 0.4 deg on Feb 20

Monthly Average Direction: 300.5 deg

Hours in Service:	672
Hours of Data:	634
Hours of Missing Data:	38
Percent Operational Time:	94.4

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	38	82	85	110	115	115	114	117	120	113	117	124	130	127	122	117	116	116	117	128	127	128	125	131	116.9
2-Feb	137	131	127	127	123	132	130	139	139	151	141	139	136	139	155	221	253	307	283	299	345	313	329	2	139.3
3-Feb	330	330	335	329	338	335	339	332	14	292	191	244	261	268	178	127	137	158	166	171	148	157	155	139	191.5
4-Feb	136	141	158	169	179	198	245	273	285	270	268	260	255	271	284	270	254	255	264	260	259	279	16	34	252.5
5-Feb	45	59	14	3	358	351	333	338	335	341	344	346	341	356	21	29	13	38	49	95	94	66	98	115	3.8
6-Feb	131	125	125	122	122	128	128	120	124	131	125	122	123	115	114	126	119	117	151	170	UO	196	206	173	125.5
7-Feb	158	255	290	289	242	278	311	290	322	348	327	344	34	31	31	360	31	34	27	60	113	111	110	115	16.0
8-Feb	122	118	127	132	125	126	130	121	139	38	338	350	27	334	306	333	347	344	305	38	7	350	339	334	5.4
9-Feb	340	57	75	54	65	96	104	116	113	113	130	113	92	64	62	18	30	38	41	23	73	68	100	107	75.3
10-Feb	109	108	116	108	123	118	122	133	128	128	128	127	134	134	127	137	134	151	217	286	UO	131	161	209	129.8
11-Feb	261	263	262	264	163	264	258	254	257	258	256	259	255	252	248	244	243	234	251	259	254	250	244	247	253.5
12-Feb	246	248	251	262	292	285	312	336	324	286	277	254	253	257	242	201	190	160	169	177	211	239	256	266	248.3
13-Feb	272	266	256	262	260	260	264	262	286	287	271	263	270	268	265	264	261	262	266	257	250	250	267	251	264.2
14-Feb	245	246	244	244	244	247	226	226	UO	257	260	257	259	267	268	271	262	246	257	288	283	270	263	254	256.7
15-Feb	262	264	280	287	319	29	356	352	347	15	20	7	12	6	1	348	336	340	292	295	307	310	296	288	336.6
16-Feb	292	281	UO	UO	UO	UO	UO	UO	UO	305	154	111	78	58	71	77	78	87	14	269	UO	304	21	26	--
17-Feb	12	359	0	359	357	346	344	346	347	347	350	353	3	6	5	0	353	355	351	349	348	348	347	344	353.2
18-Feb	344	346	337	341	338	339	335	335	334	328	331	334	343	340	342	333	343	338	312	283	271	254	249	249	334.4
19-Feb	UO	243	240	241	235	UO	UO	UO	226	276	260	251	242	240	254	239	239	188	175	248	215	155	150	175	245.3
20-Feb	272	UO	248	247	239	242	233	236	236	UO	113	101	87	55	33	23	13	292	247	242	248	251	294	297	352.7
21-Feb	312	308	350	309	314	341	351	333	309	294	348	24	32	33	22	34	4	16	270	UO	2	24	78	92	0.9
22-Feb	99	UO	102	98	70	75	UO	76	100	118	116	112	112	118	118	114	116	117	118	120	119	121	120	120	114.5
23-Feb	120	116	114	143	144	115	UO	UO	UO	280	286	331	262	289	28	27	37	37	UO	UO	UO	246	UO	UO	--
24-Feb	242	252	252	254	250	253	274	261	260	251	253	253	270	263	263	261	263	252	235	241	233	231	233	230	254.4
25-Feb	147	122	119	116	108	137	UO	UO	UO	111	129	143	109	124	111	151	17	9	24	270	246	247	UO	UO	115.3
26-Feb	228	UO	118	84	126	115	104	60	58	98	106	71	11	343	329	328	338	324	335	333	327	331	331	333	348.8
27-Feb	334	328	329	327	323	333	333	322	334	348	342	332	9	28	24	26	36	15	263	260	253	UO	240	241	340.6
28-Feb	UO	238	236	237	238	237	UO	240	UO	241	236	243	174	237	193	175	156	195	191	229	148	252	258	246	225.7
	285.6	274.4	262.3	281.6	289.0	301.5	308.1	305.6	319.2	301.1	285.1	287.0	320.4	315.0	332.7	333.1	349.0	0.4	286.9	278.8	268.5	278.6	285.1	285.6	
	Diurnal Average																								

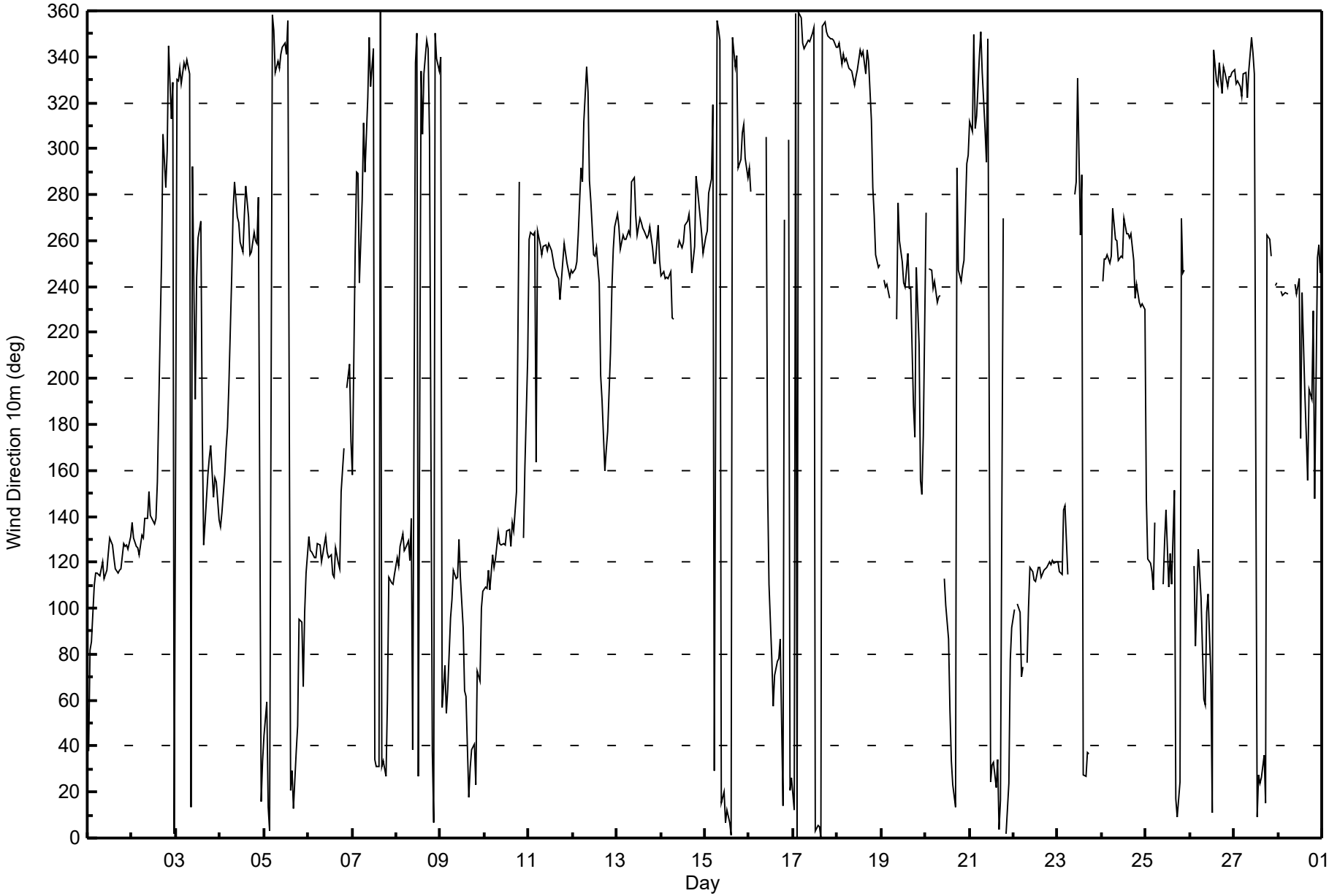
UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Surmont 2 - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Surmont 2 - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 112 deg on Feb 20 00:00

Minimum Value: 6 deg on Feb 20 08:00

Percentiles: P_1 = 10 P_{10} = 21 Q_1 = 28 Median = 37 Q_3 = 45 P_{90} = 59 P_{99} = 88

Hours in Service:	672
Hours of Data:	634
Hours of Missing Data:	38
Hours of Calibration:	0
Percent Operational Time:	94.4

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	36	42	32	19	26	21	23	24	27	17	26	29	36	38	35	23	21	20	26	33	33	36	35	41	42
2-Feb	45	36	29	31	29	42	44	42	49	45	39	38	32	34	52	61	27	46	30	40	40	32	38	38	61
3-Feb	43	38	43	44	40	40	40	37	46	48	65	61	36	31	70	35	45	45	52	52	48	49	45	44	70
4-Feb	41	52	58	74	53	67	47	31	38	29	26	25	24	29	28	27	18	19	23	22	20	53	42	36	74
5-Feb	37	35	37	49	38	36	38	44	44	44	36	41	44	45	45	40	37	33	56	51	70	25	21	19	70
6-Feb	35	28	30	26	23	27	28	23	25	33	28	25	26	21	19	29	26	25	77	87	UO	75	71	34	87
7-Feb	36	88	31	40	87	34	63	60	42	36	46	39	33	41	40	74	44	29	32	55	17	22	21	22	88
8-Feb	20	31	31	37	32	33	41	25	42	64	36	45	31	55	43	41	40	31	48	26	40	37	48	48	64
9-Feb	60	40	45	57	89	54	34	42	32	31	50	33	33	33	57	44	40	39	37	34	37	27	27	18	89
10-Feb	20	14	23	16	38	26	29	39	42	40	48	38	39	42	41	56	66	52	53	50	UO	83	21	75	83
11-Feb	38	31	81	84	89	33	28	27	26	27	27	25	27	25	24	24	32	34	28	26	25	23	26	26	89
12-Feb	24	25	22	26	43	33	73	61	48	32	49	42	55	29	56	64	59	62	58	51	69	43	36	31	73
13-Feb	30	27	26	26	28	27	28	28	47	47	27	25	30	31	26	30	28	68	35	25	15	13	38	52	68
14-Feb	10	12	10	14	9	19	38	57	UO	72	35	29	27	29	30	27	22	18	18	46	37	26	24	17	72
15-Feb	28	25	28	36	60	35	34	34	35	37	38	48	41	38	36	34	40	39	25	24	29	45	35	19	60
16-Feb	21	21	UO	UO	UO	UO	UO	UO	UO	90	61	55	71	34	38	36	30	32	46	45	UO	51	37	52	90
17-Feb	38	36	43	37	41	30	31	32	40	36	37	40	38	40	41	39	40	39	37	35	35	37	37	34	43
18-Feb	35	34	43	39	40	39	39	41	41	40	42	38	40	39	40	41	36	36	36	24	21	36	13	35	43
19-Feb	UO	55	10	37	37	UO	UO	UO	74	33	31	39	45	38	31	34	44	89	66	88	59	69	83	112	112
20-Feb	99	UO	22	11	47	59	38	6	40	UO	15	60	48	49	65	39	38	47	20	29	59	52	31	66	99
21-Feb	39	38	33	36	38	38	39	43	47	26	62	41	47	43	47	40	37	34	50	UO	64	39	34	22	64
22-Feb	22	UO	23	25	23	37	UO	46	28	20	21	23	23	23	20	17	17	18	18	20	22	20	20	20	46
23-Feb	20	18	15	31	53	57	UO	UO	UO	84	36	79	60	45	45	42	45	34	UO	UO	UO	55	UO	UO	84
24-Feb	15	20	17	16	19	20	52	86	44	30	24	29	35	46	34	36	25	62	29	47	46	36	71	61	86
25-Feb	48	40	29	34	18	49	UO	UO	UO	57	25	38	23	26	30	58	37	32	40	41	13	24	UO	UO	58
26-Feb	67	UO	87	41	31	26	22	29	27	29	19	46	44	36	38	46	49	47	45	43	43	42	42	41	87
27-Feb	42	43	46	42	36	38	38	41	41	36	39	46	46	49	44	45	43	40	23	31	15	UO	45	48	49
28-Feb	UO	8	10	7	11	50	UO	39	UO	98	44	40	55	46	59	46	51	70	56	80	76	48	25	42	98
	99	88	87	84	89	67	73	86	74	98	65	79	71	55	70	74	66	89	77	88	76	83	83	112	
	Diurnal Maximum																								

UO - Unstable Operation

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS30
ELLS RIVER
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - ELLS RIVER (AMS30)
FEBRUARY 2026

MONTHLY SUMMARY for
AMD SECTION III.B.1(c)

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 30-Min Value	30-Min Exceedances	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	638	33	34	99.85	-	-	16.6	0	2	0
TRS (ppb) Average	638	33	34	99.85	3.4	0	3.3	0	1	0
THC (ppm) Average	638	33	34	99.85	-	-	4.7	-	3	-
NMHC (ppm) Average	638	33	34	99.85	-	-	1.403	-	0.377	-
CH4 (ppm) Average	638	33	34	99.85	-	-	4.2	-	2.7	-
NO2 (ppb) Average	637	34	35	99.85	-	-	53.9	0	26.1	-
NO (ppb) Average	637	34	35	99.85	-	-	120.5	-	33.3	-
NOX (ppb) Average	637	34	35	99.85	-	-	174.4	-	57.3	-
PM2.5 (ug/m3) Average	671	1	1	100	-	-	23.5	0	9.2	0
Temperature 2 m (C) Average	672	0	0	100	-	-	11	-	0.6	-
Relative Humidity (%) Average	672	0	0	100	-	-	93.2	-	83.3	-
Wind Speed 10 m (km/h) Average	669	0	3	99.55	-	-	39	-	31	-
Wind Direction 10 m (deg) Average	669	0	3	99.55	-	-	-	-	-	-
Global Solar Radiation (W/m2) Average	672	0	0	100	-	-	524	-	140.2	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - ELLS RIVER (AMS30)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	638	0.44	1.1	-	0	0	0	0.1	0.4	1	16.6
TRS (ppb) Average	638	0.39	0.4	-	0.1	0.2	0.2	0.3	0.4	0.7	3.3
THC (ppm) Average	638	2.26	0.4	-	1.9	2	2	2.1	2.3	2.7	4.7
NMHC(ppm) Average	638	0.071	0.175	-	0	0	0	0	0	0.2	1.403
CH4(ppm) Average	638	2.18	0.3	-	1.9	2	2	2.1	2.2	2.5	4.2
NO2 (ppb) Average	637	12.1	9.4	-	0.4	1.5	5	9.5	17.3	26.2	53.9
NO (ppb) Average	637	6.54	14	-	0	0	0.1	1.1	6.1	19.2	120.5
NOX (ppb) Average	637	18.64	20.9	-	0.4	2.4	6.5	11.4	22.9	43.7	174.4
PM2.5 (ug/m3) Average	671	4.73	2.5	-	1.1	2.4	3.2	4.1	5.7	7.4	23.5
Temperature 2 m (C) Average	672	-15.81	9.8	-	-39.7	-29	-23.3	-15.2	-9.2	-3.4	11
Relative Humidity (%) Average	672	72.03	10.1	-	33.6	58.6	65.1	72.6	80.3	83.8	93.2
Wind Speed 10 m (km/h) Average	669	10.6	8	-	0	3	5	9	14	21	39
Wind Direction 10 m (deg) Average	669	77.9	-	-	-	-	-	-	-	-	-
Global Solar Radiation (W/m2) Average	672	61.67	111.7	-	0	0	0	0	82.1	227.9	524

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - ELLS RIVER (AMS30)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
ALL GASEOUS ANALYZERS	13 Feb 2026 12:00	13 Feb 2026 12:00	1	Maintenance - sample manifold cleaned
Wind Speed, Wind Direction	10 Feb 2026 06:00	10 Feb 2026 06:00	1	Flat line in sensor output signal
Wind Speed, Wind Direction	24 Feb 2026 01:00	24 Feb 2026 01:00	1	Flat line in sensor output signal
Wind Speed, Wind Direction	25 Feb 2026 06:00	25 Feb 2026 06:00	1	Flat line in sensor output signal

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Ells River - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 16.6 ppb on Feb 2 05:00 Maximum Daily Average: 2.0 ppb on Feb 2

Minimum Value: 0.0 ppb on Feb 4 19:00 Minimum Daily Average: 0.0 ppb on Feb 17
Maximum Diurnal Average: 0.9 ppb at hour 5 Minimum Diurnal Average: 0.2 ppb at hour 24
Monthly Average: 0.44 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.4 P_{90} = 1.0 P_{99} = 4.9

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.2	0.2	0.2	0.1	0.2	0.7	1.6	1.4	1.0	0.7	1.6	2.4	5.0	4.2	5.1	2.5	0.9	0.4	1.8	1.8	0.9	0.4	1.3	1.5	5.1
2-Feb	3.1	Z	1.6	3.0	16.6	7.3	4.2	2.5	2.0	0.7	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.6	0.8	0.6	0.4	0.2	2.0	16.6
3-Feb	0.3	0.2	Z	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.5	2.8	2.4	1.2	0.8	1.1	0.9	0.6	0.5	0.5	0.6	2.8
4-Feb	1.6	6.4	2.6	Z	0.3	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.6	6.4
5-Feb	0.1	0.0	0.1	0.0	Z	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.4	0.5	0.4	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.5
6-Feb	0.1	0.0	0.0	0.2	0.3	Z	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.7	1.5	1.3	1.8	1.5	0.9	0.6	0.4	0.3	0.3	0.3	0.5	1.8
7-Feb	Z	0.3	0.5	1.7	1.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	1.7
8-Feb	0.0	Z	0.0	0.1	0.5	0.6	0.5	0.5	0.5	0.2	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.2	0.6
9-Feb	0.0	0.1	Z	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10-Feb	0.1	0.1	0.1	Z	0.1	0.2	0.5	0.4	0.2	0.2	C	C	C	C	C	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5
11-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.2
12-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
13-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	M	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
14-Feb	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	2.6	5.7	3.5	1.2	1.5	2.9	1.0	0.4	0.1	0.0	0.0	0.0	0.0	0.9	5.7
15-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.6	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.6
16-Feb	0.1	0.1	0.0	Z	0.1	0.1	0.1	0.0	0.1	0.1	0.6	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.6
17-Feb	0.0	0.1	0.1	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.0	0.2
19-Feb	Z	0.3	0.2	0.2	0.4	0.4	0.4	0.5	0.6	0.5	0.2	0.2	0.4	0.4	0.3	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6
20-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	1.7	6.2	4.8	4.4	3.0	0.6	0.1	0.3	1.1	1.4	1.8	1.5	1.2	1.3	6.2
21-Feb	0.9	0.8	Z	0.8	0.7	0.7	0.6	0.4	0.4	0.4	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.3	0.9
22-Feb	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.3	0.2	0.3
23-Feb	0.3	0.3	0.2	0.2	Z	0.3	0.3	0.1	0.1	0.2	0.2	0.2	0.7	0.9	1.3	1.0	0.9	0.6	0.3	0.1	0.1	0.1	0.1	0.1	0.4	1.3
24-Feb	0.1	0.2	0.1	0.2	0.1	Z	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.5	2.2	2.8	1.5	0.8	0.1	0.1	0.1	0.1	0.5	2.8
25-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.4	0.7	0.5	0.5	0.5	0.7	1.6	1.8	3.7	3.5	3.0	1.5	0.4	0.4	0.5	0.4	0.9	3.7
26-Feb	0.3	Z	0.4	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
27-Feb	0.2	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1.2	1.2	0.9	0.7	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.3	1.2
28-Feb	0.1	0.0	0.0	Z	0.1	0.0	0.1	0.4	0.6	0.7	0.8	0.7	0.7	1.9	2.3	1.4	0.8	0.4	0.3	0.3	0.3	0.2	0.3	0.2	0.5	2.3
	0.3	0.4	0.3	0.3	0.9	0.5	0.3	0.3	0.3	0.3	0.2	0.4	0.8	0.8	0.8	0.8	0.7	0.5	0.3	0.3	0.3	0.2	0.2	0.2	Diurnal Average	
	3.1	6.4	2.6	3.0	16.6	7.3	4.2	2.5	2.0	1.0	0.9	2.6	6.2	5.0	4.4	5.1	3.7	3.5	3.0	1.8	1.8	1.8	1.5	1.3	Diurnal Maximum	

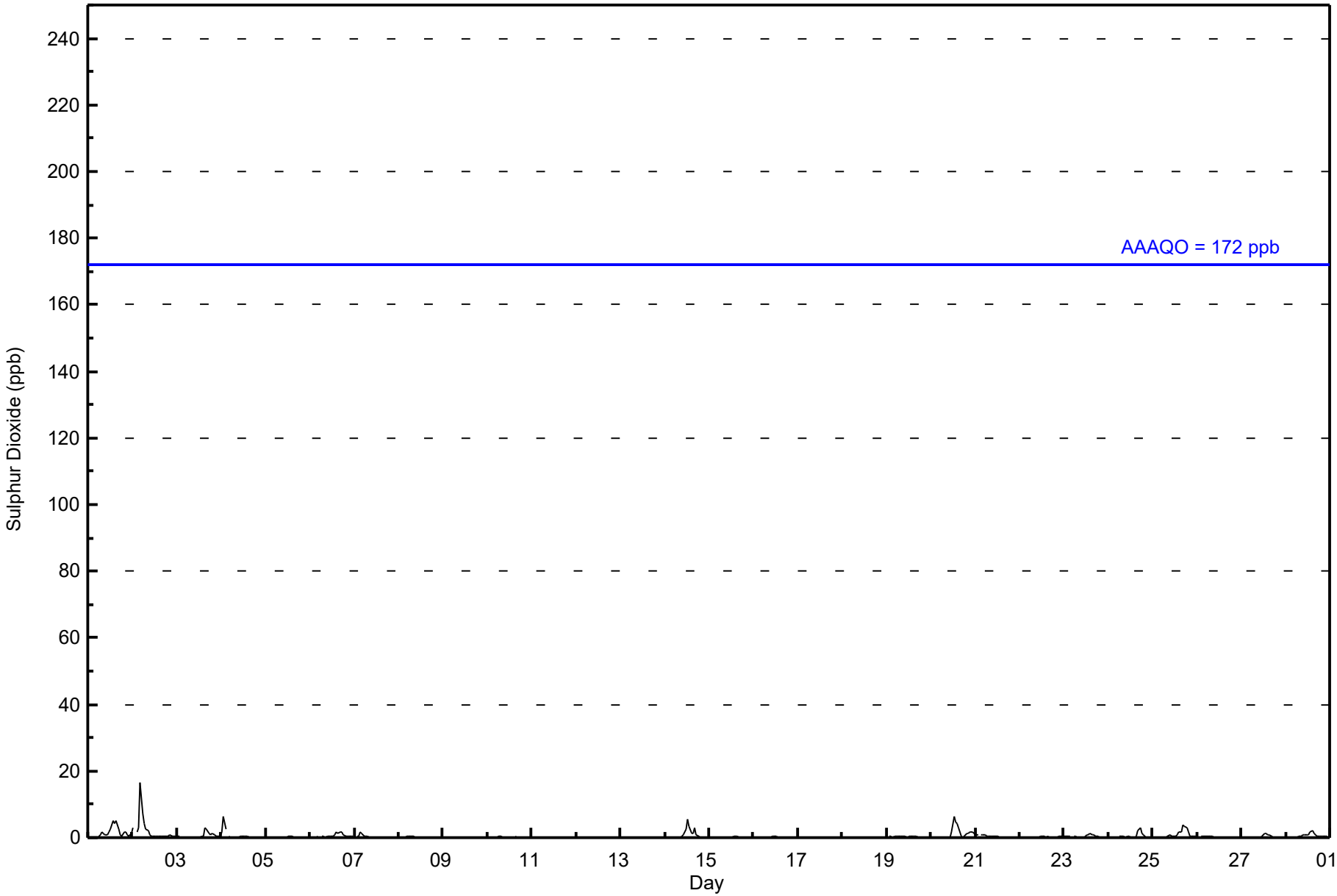
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Ells River - February 2026



Sulphur Dioxide (SO_2) - ppb
Ells River - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	637	99.84	99.84
11 - 20	1	0.16	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Ells River - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	143	133	31	9	9	4	25	73	61	45	30	15	18	11	11	16	634
11 - 20	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	143	133	31	9	9	4	25	73	62	45	30	15	18	11	11	16	635

Total Number of Valid Hours: 635

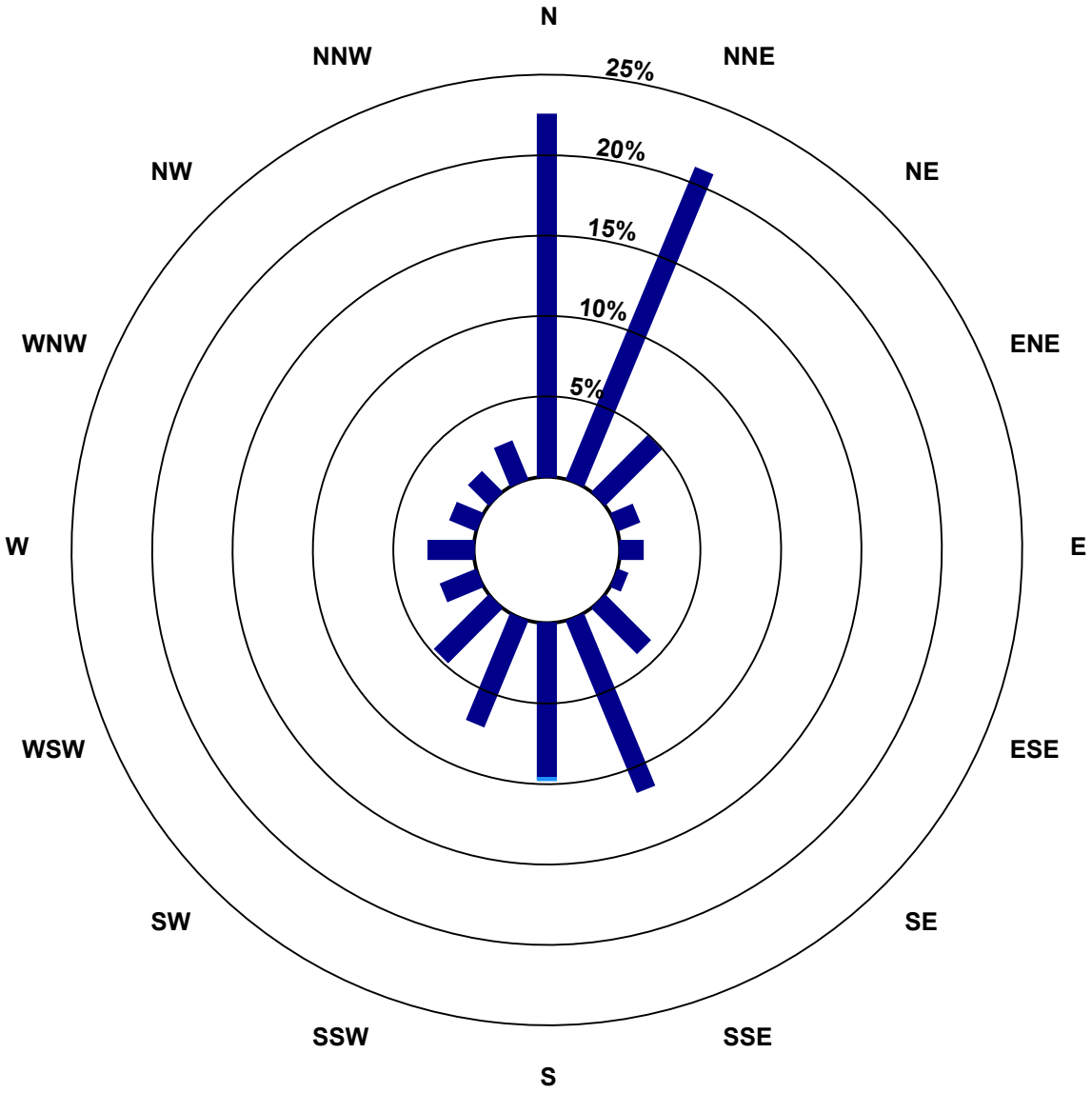
Total Number of Hours: 672

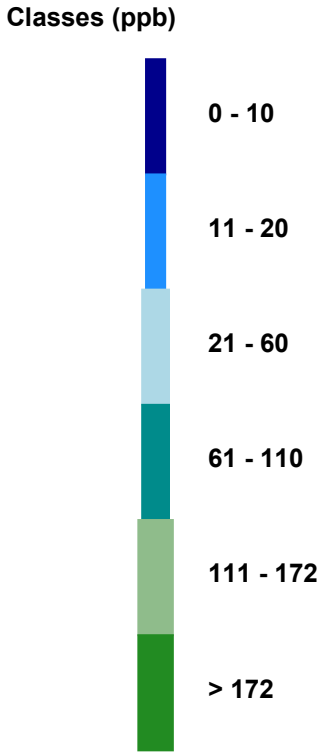
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Ells River





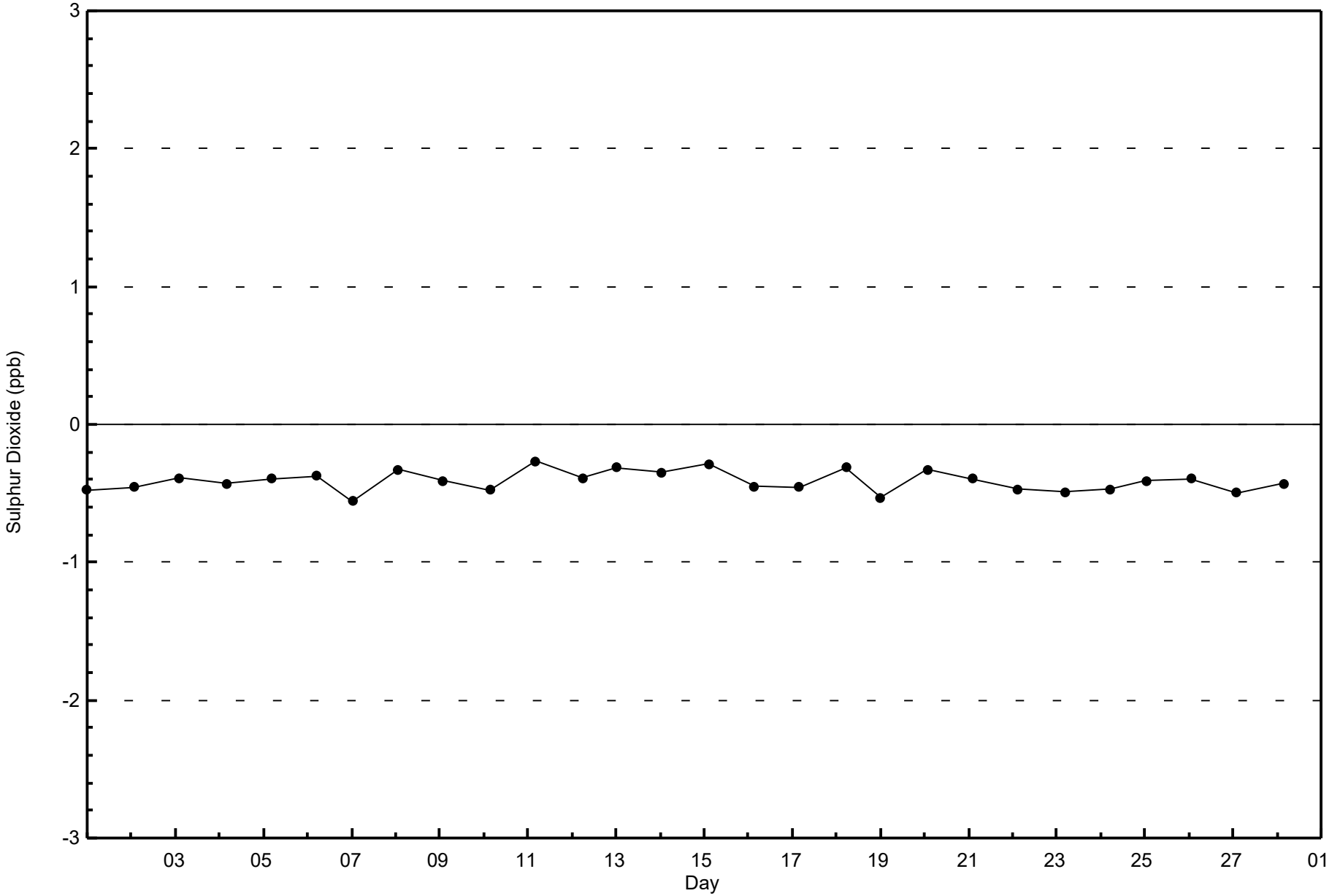
Total Number of Valid Hours: 635

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Ells River - February 2026

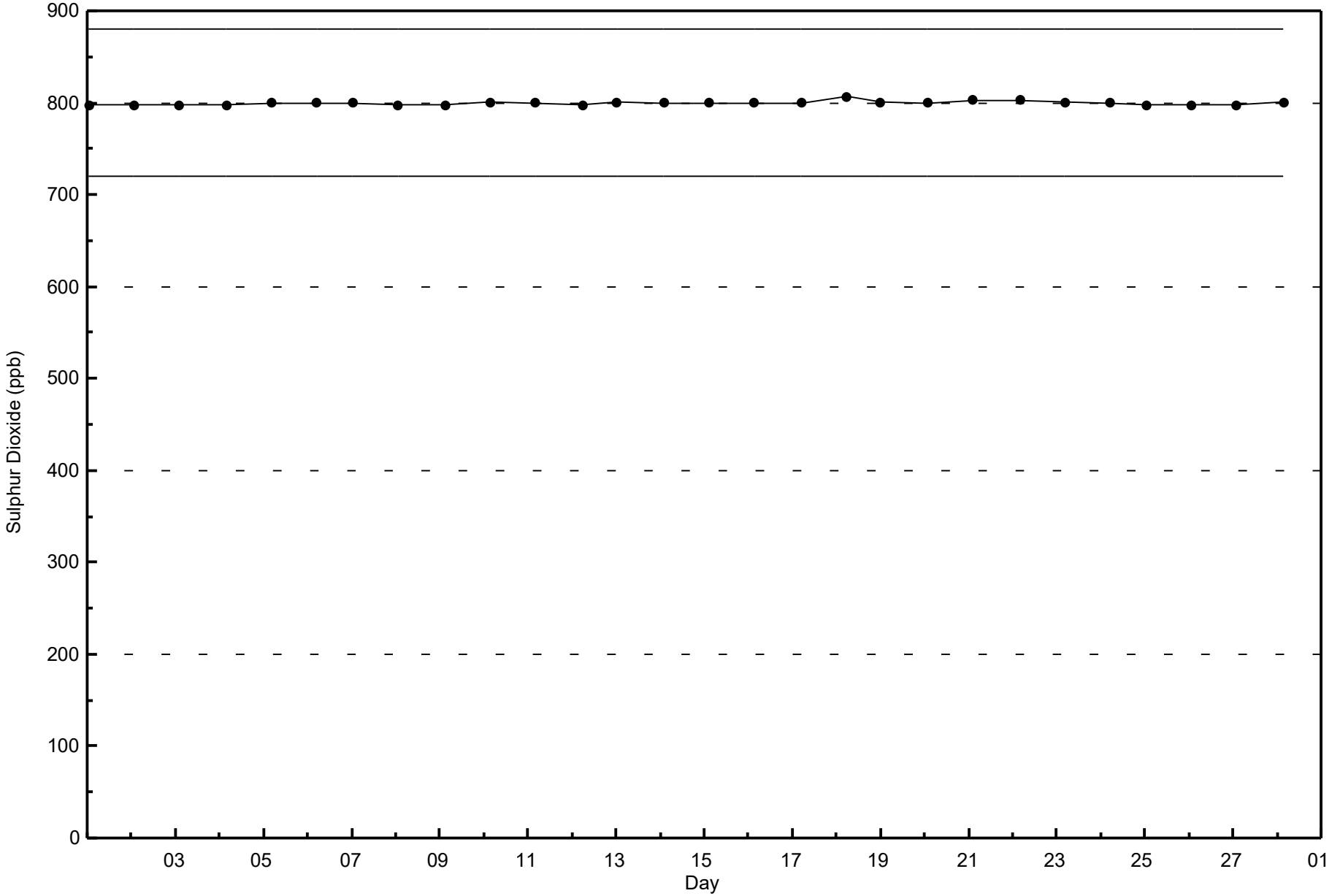


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Ells River - February 2026



Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Ells River - February 2026

Number of Exceedences (AAAQG): 30-Min: 0

Maximum Value: 3.4 ppb on Feb 14 13:00

Maximum Daily Average: 1.0 ppb on Feb 14

Minimum Value: 0.1 ppb on Feb 13 03:30

Minimum Daily Average: 0.2 ppb on Feb 26

Maximum Diurnal Average: 0.5 ppb at hour 11

Minimum Diurnal Average: 0.3 ppb at hour 3

Monthly Average: 0.39 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.2 Q_1 = 0.2 Median = 0.3 Q_3 = 0.4 P_{90} = 0.7 P_{99} = 2.3

Periods in Service:	1344
Periods of Valid Data:	1277
Periods of Invalid Data:	67
Periods of Calibration:	65
Percent Operational Time:	99.9

Period Ending At (MST)

Day	00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
1-Feb	0.2 0.3	Z SP	0.3 0.2	0.2 0.1	0.2 0.1	0.2 0.2	0.2 0.2	0.3 0.3	0.3 0.3	0.2 0.2	0.2 0.2	0.3 0.3	0.2 0.2	0.3 0.3	0.3 0.3	0.4 0.4	0.3 0.3	0.2 0.2	0.2 0.2	0.2 0.3	0.3 0.2	0.2 0.2	0.2 0.2	0.2 0.3	0.2	0.4
2-Feb	0.3 0.3	0.5 0.4	Z SP	0.5 0.5	0.4 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.4 0.4	0.7 0.9	0.9 0.8	0.7 0.8	0.9 0.9	0.7 0.2	0.2 0.2	0.3 0.6	0.7 0.6	0.6 0.7	0.7 0.6	0.5 0.4	0.3 0.3	0.3 0.2	0.2 0.2	0.5	0.9
3-Feb	0.2 0.2	0.2 0.1	0.1 0.1	Z SP	0.2 0.2	0.2 0.2	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.2	0.2 0.2	0.2 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.4 0.4	0.4 0.4	0.3 0.3	0.3 0.4	0.4 0.4	0.4 0.4	0.5 0.4	0.4 0.4	0.4 0.4	0.3	0.5
4-Feb	0.3 0.2	0.3 0.5	0.5 0.2	0.7 0.9	Z SP	0.2 0.2	0.2 0.2	0.2 0.2	0.1 0.2	0.1 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.3 0.2	0.2 0.2	0.2	0.9
5-Feb	0.2 0.3	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.3	Z SP	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.3	0.4 0.4	0.3 0.2	0.2 0.2	0.2 0.2	0.2 0.3	0.3 0.3	0.3 0.2	0.2 0.2	0.3 0.3	0.3 0.3	0.2	0.4
6-Feb	Z SP	0.4 0.3	0.3 0.4	0.5 0.7	0.8 0.7	0.7 0.6	0.6 0.5	0.5 0.5	0.5 0.4	0.5 0.6	0.7 0.9	0.9 0.8	0.7 0.6	0.6 0.4	0.4 0.4	0.4 0.4	0.5 0.5	0.4 0.5	0.5 0.5	0.5 0.5	0.5 0.5	0.4 0.4	0.4 0.4	0.3 0.3	0.5	0.9
7-Feb	0.4 0.4	Z SP	0.4 0.7	0.5 0.5	0.4 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.1 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.4 0.3	0.3 0.3	0.3 0.3	0.3 0.2	0.3 0.3	0.3 0.3	0.3 0.3	0.2 0.2	0.2 0.2	0.2 0.2	0.3	0.7
8-Feb	0.2 0.2	0.2 0.1	Z SP	0.2 0.4	0.5 0.5	0.5 0.5	0.5 0.5	0.7 1.3	1.5 1.1	1.0 0.6	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.1	0.1 0.2	0.2 0.2	0.1 0.2	0.2 0.2	0.2 0.3	0.3 0.3	0.2 0.2	0.2 0.2	0.1 0.1	0.2 0.2	0.3	1.5
9-Feb	0.2 0.2	0.3 0.2	0.3 0.3	Z SP	0.3 0.2	0.3 0.3	0.4 0.5	0.5 0.4	0.4 0.3	0.3 0.3	0.3 0.3	0.2 0.3	0.3 0.3	0.3 0.3	0.3 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.3 0.2	0.2 0.2	0.2 0.2	0.3 0.3	0.2 0.2	0.2 0.2	0.3	0.5
10-Feb	0.3 0.3	0.2 0.2	0.2 0.2	0.2 0.2	Z SP	0.5 0.4	0.5 0.5	0.5 0.4	0.4 0.3	0.3 0.3	0.4 0.4	0.4 0.4	0.4 0.4	0.4 0.4	0.4 0.4	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3 0.3	0.3	0.5
11-Feb	0.3 0.3	0.3 0.3	0.3 0.3	0.2 0.2	0.2 0.2	Z SP	0.2 0.2	0.2 0.2	0.1 0.1	0.2 0.2	0.1 0.2	0.4 0.7	0.5 0.4	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.3	0.2 0.3	0.3 0.3	0.3 0.3	0.6 0.7	0.4 0.4	0.5 0.5	0.3	0.7
12-Feb	Z SP	0.5 0.6	0.4 0.2	0.2 0.2	0.2 0.2	0.2 0.1	0.2 0.1	0.2 0.1	0.1 0.1	0.1 0.1	0.2 C	C C	C C	C C	C C	0.3 0.8	1.8 1.3	0.8 1.8	1.0 0.9	0.6 1.1	0.8 0.2	0.1 0.1	0.1 0.1	0.1 0.1	0.4	1.8
13-Feb	0.1 0.1	Z SP	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 M	M 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.2 0.7	1.7 0.9	0.6 0.5	0.5 0.5	0.4 0.3	0.2	1.7
14-Feb	0.3 0.3	0.3 0.3	Z SP	0.2 0.2	0.2 0.1	0.2 0.1	0.2 0.2	0.2 0.4	0.6 0.7	0.8 1.7	2.4 2.6	2.4 2.1	3.1 3.4	2.9 3.3	1.6 1.5	1.4 1.8	2.4 1.8	1.1 1.0	0.6 0.4	0.4 0.3	0.2 0.2	0.2 0.3	0.5 0.4	0.3 0.4	1.0	3.4
15-Feb	0.2 0.2	0.2 0.2	0.3 0.3	Z SP	0.5 0.4	0.3 0.3	0.3 0.2	0.3 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.2 0.2	0.3 0.2	0.3 0.3	0.3 0.3	0.3 0.3	0.2 0.2	0.2 0.2	0.2 0.3	0.5 0.4	0.6 0.5	0.5 0.5	0.5 0.4	0.4 0.4	0.3	0.6

Wood Buffalo Environmental Association

Summary of 30-Minute Averages

Total Reduced Sulphur (TRS) - ppb

Ells River - February 2026

Day	Period Ending At (MST) 00:30 01:00	01:30 02:00	02:30 03:00	03:30 04:00	04:30 05:00	05:30 06:00	06:30 07:00	07:30 08:00	08:30 09:00	09:30 10:00	10:30 11:00	11:30 12:00	12:30 13:00	13:30 14:00	14:30 15:00	15:30 16:00	16:30 17:00	17:30 18:00	18:30 19:00	19:30 20:00	20:30 21:00	21:30 22:00	22:30 23:00	23:30 24:00	Daily Average	Daily Maximum
16-Feb	0.3	0.3	0.3	0.3	Z	0.3	0.2	0.2	0.2	0.3	1.0	0.4	0.5	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	1.0
	0.3	0.3	0.3	0.3	SP	0.3	0.2	0.2	0.2	0.4	0.7	0.5	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
17-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3
	0.2	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2		
18-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
	SP	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3		
19-Feb	0.3	Z	0.3	0.2	0.3	0.5	0.5	0.4	1.0	1.5	0.4	0.5	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.8	2.5	1.6	1.1	1.9	0.7	2.5
	0.3	SP	0.3	0.2	0.7	0.4	0.6	0.3	1.6	0.7	0.6	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.4	2.2	2.2	1.2	1.1	2.1		
20-Feb	1.8	2.5	Z	1.7	1.7	2.0	1.9	1.5	1.4	0.9	1.6	1.0	0.6	0.8	0.5	0.8	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.2	1.0	2.5
	2.5	1.6	SP	1.8	1.8	2.3	1.7	1.3	1.3	1.2	1.6	0.7	0.8	0.6	0.8	0.8	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2		
21-Feb	0.2	0.2	0.2	Z	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5
	0.2	0.2	0.2	SP	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
22-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.2	0.5
	0.2	0.2	0.2	0.2	SP	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.5	0.4		
23-Feb	0.4	0.8	0.5	0.9	0.5	Z	0.2	0.2	0.2	0.6	0.5	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.6	0.5	0.9
	0.6	0.9	0.5	0.9	0.2	SP	0.2	0.2	0.6	0.6	0.4	0.3	0.4	0.4	0.5	0.5	0.6	0.4	0.4	0.4	0.4	0.4	0.5	0.5		
24-Feb	Z	0.6	0.5	0.5	0.5	0.5	0.6	0.8	0.9	0.7	0.4	0.3	0.3	0.2	0.2	0.4	0.3	0.5	0.4	0.3	0.3	0.3	0.4	0.3	0.4	1.1
	SP	0.6	0.5	0.5	0.5	0.6	0.7	1.1	0.9	0.5	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.3	0.4	0.3		
25-Feb	0.4	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.4	0.4	0.4	0.6	0.8	0.8	0.7	0.3	0.3	0.3	0.3	0.4	0.8
	0.4	SP	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.7	0.5	0.3	0.4	0.4	0.6	0.7	0.8	0.3	0.3	0.2	0.3	0.2		
26-Feb	0.2	0.3	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.3
	0.2	0.3	SP	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1		
27-Feb	0.2	0.1	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
	0.2	0.2	0.2	SP	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
28-Feb	0.3	0.3	0.3	0.3	Z	0.4	0.3	0.6	1.9	1.7	0.9	0.7	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.5	2.2	1.4	0.7	0.8	0.7	2.5
	0.3	0.3	0.3	0.3	SP	0.3	0.4	0.9	2.5	1.2	0.9	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.4	1.3	1.6	1.3	0.8	0.7		
	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.3	0.4	0.4	0.4	0.3	0.4	0.5	0.4	0.3	0.4	Diurnal Average	
	2.5	2.5	0.7	1.8	1.8	2.3	1.9	1.5	2.5	1.7	2.6	2.4	3.4	3.3	1.6	1.8	2.4	1.8	1.0	2.2	2.5	1.6	1.1	2.1	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance SP - Span

Alberta Ambient Air Quality Guideline (AAAQG): 30-Min: 5 ppb

Wood Buffalo Environmental Association

Summary of Hour Averages

Total Reduced Sulphur (TRS) - ppb

Ells River - February 2026

Maximum Value: 3.3 ppb on Feb 14 13:00

Maximum Daily Average: 1.0 ppb on Feb 14

Minimum Value: 0.1 ppb on Feb 13 00:00

Minimum Daily Average: 0.2 ppb on Feb 26

Maximum Diurnal Average: 0.5 ppb at hour 11

Minimum Diurnal Average: 0.3 ppb at hour 3

Monthly Average: 0.39 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.2 Q_1 = 0.2 Median = 0.3 Q_3 = 0.4 P_{90} = 0.7 P_{99} = 2.1

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	Z	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
2-Feb	0.3	0.4	Z	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.8	0.9	0.8	0.9	0.5	0.2	0.5	0.6	0.6	0.7	0.5	0.3	0.2	0.2	0.5	0.9
3-Feb	0.2	0.2	0.1	Z	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.4
4-Feb	0.3	0.4	0.4	0.8	Z	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.8
5-Feb	0.2	0.2	0.2	0.2	0.3	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.4
6-Feb	Z	0.4	0.4	0.6	0.8	0.6	0.6	0.5	0.5	0.6	0.8	0.8	0.6	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.5	0.8
7-Feb	0.4	Z	0.5	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.5
8-Feb	0.2	0.2	Z	0.3	0.5	0.5	0.5	1.0	1.3	0.8	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.3	1.3
9-Feb	0.2	0.2	0.3	Z	0.3	0.3	0.5	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.5
10-Feb	0.3	0.2	0.2	0.2	Z	0.5	0.5	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
11-Feb	0.3	0.3	0.3	0.2	0.2	Z	0.2	0.2	0.1	0.2	0.2	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.6	0.4	0.5	0.3	0.6
12-Feb	Z	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	C	C	C	C	C	0.5	1.6	1.3	1.0	0.9	0.5	0.1	0.1	0.1	0.4	1.6
13-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	M	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	1.3	0.6	0.5	0.4	0.2	1.3
14-Feb	0.3	0.3	Z	0.2	0.2	0.1	0.2	0.3	0.6	1.2	2.5	2.2	3.3	3.1	1.5	1.6	2.1	1.0	0.5	0.4	0.2	0.3	0.4	0.3	1.0	3.3
15-Feb	0.2	0.2	0.3	Z	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.5	0.5	0.5	0.4	0.4	0.3	0.5
16-Feb	0.3	0.3	0.3	0.3	Z	0.3	0.2	0.2	0.2	0.3	0.8	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.8
17-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
18-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3
19-Feb	0.3	Z	0.3	0.2	0.5	0.4	0.5	0.4	1.3	1.1	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.4	1.5	2.3	1.4	1.1	2.0	0.7	2.3
20-Feb	2.1	2.1	Z	1.7	1.8	2.2	1.8	1.4	1.3	1.1	1.6	0.9	0.7	0.7	0.7	0.8	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.2	1.0	2.2
21-Feb	0.2	0.2	0.2	Z	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5
22-Feb	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.2	0.4
23-Feb	0.5	0.8	0.5	0.9	0.4	Z	0.2	0.2	0.4	0.6	0.5	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.5	0.9
24-Feb	Z	0.6	0.5	0.5	0.5	0.6	0.6	0.9	0.9	0.6	0.4	0.3	0.3	0.2	0.2	0.4	0.3	0.5	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.9
25-Feb	0.4	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.4	0.4	0.4	0.6	0.8	0.8	0.5	0.3	0.3	0.3	0.2	0.4	0.8
26-Feb	0.2	0.3	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.3
27-Feb	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
28-Feb	0.3	0.3	0.3	0.3	Z	0.3	0.4	0.8	2.2	1.4	0.9	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.9	1.9	1.4	0.7	0.8	0.7	2.2
	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.4	0.5	0.4	0.3	0.4	Diurnal Average	
	2.1	2.1	0.5	1.7	1.8	2.2	1.8	1.4	2.2	1.4	2.5	2.2	3.3	3.1	1.5	1.6	2.1	1.3	1.0	1.5	2.3	1.4	1.1	2.0	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

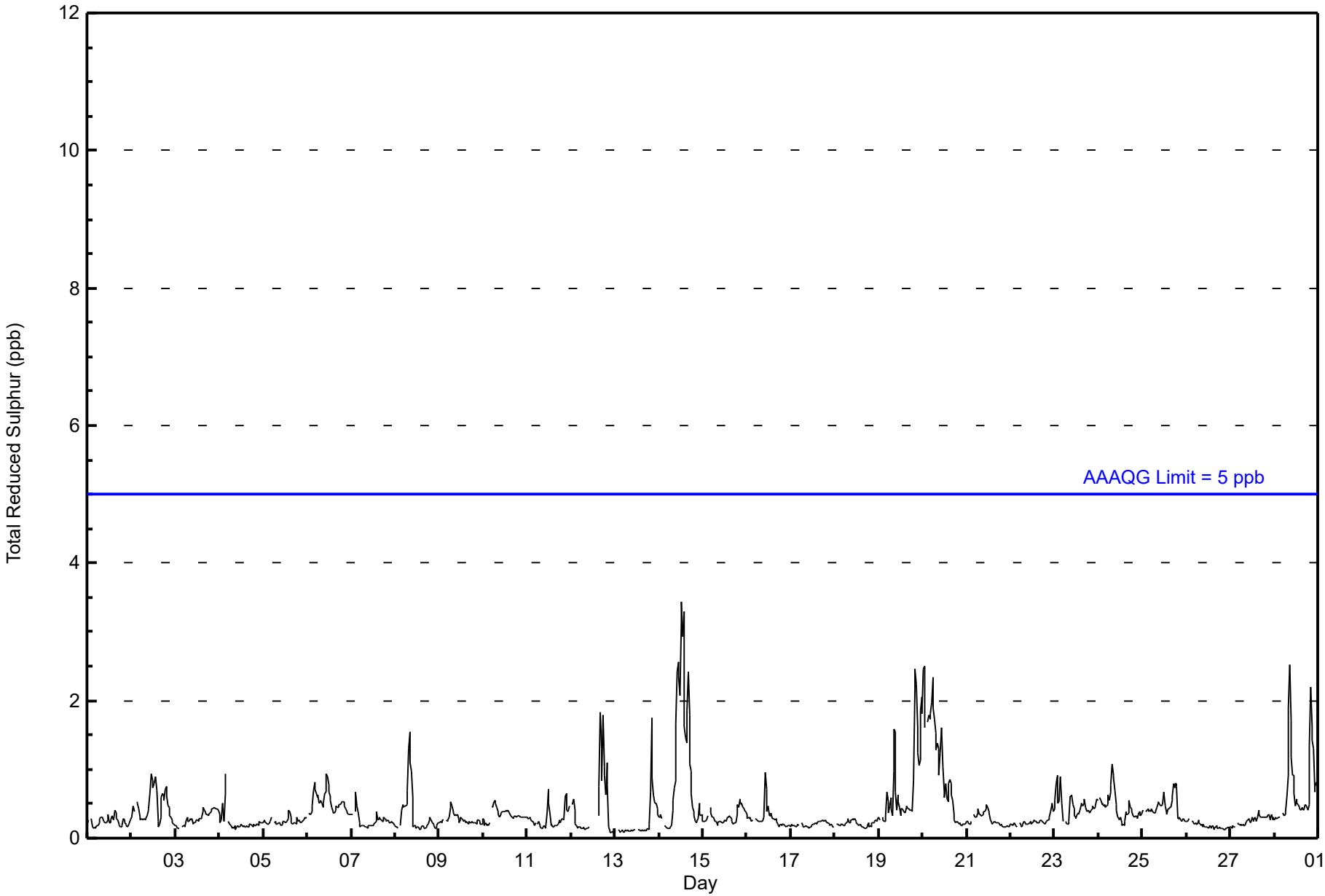
Alberta Ambient Air Quality Objective (AAAQO): 1-hour NA 24-hr NA

Wood Buffalo Environmental Association

Hourly Averages

Total Reduced Sulphur (TRS) - ppb

Ells River - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	636	99.69	99.69
3 - 4	2	0.31	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Reduced Sulphur (TRS) - ppb

Ells River - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	143	133	30	9	8	6	25	71	67	42	30	16	17	11	11	15	634
3 - 4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	143	135	30	9	8	6	25	71	67	42	30	16	17	11	11	15	636

Total Number of Valid Hours: 636

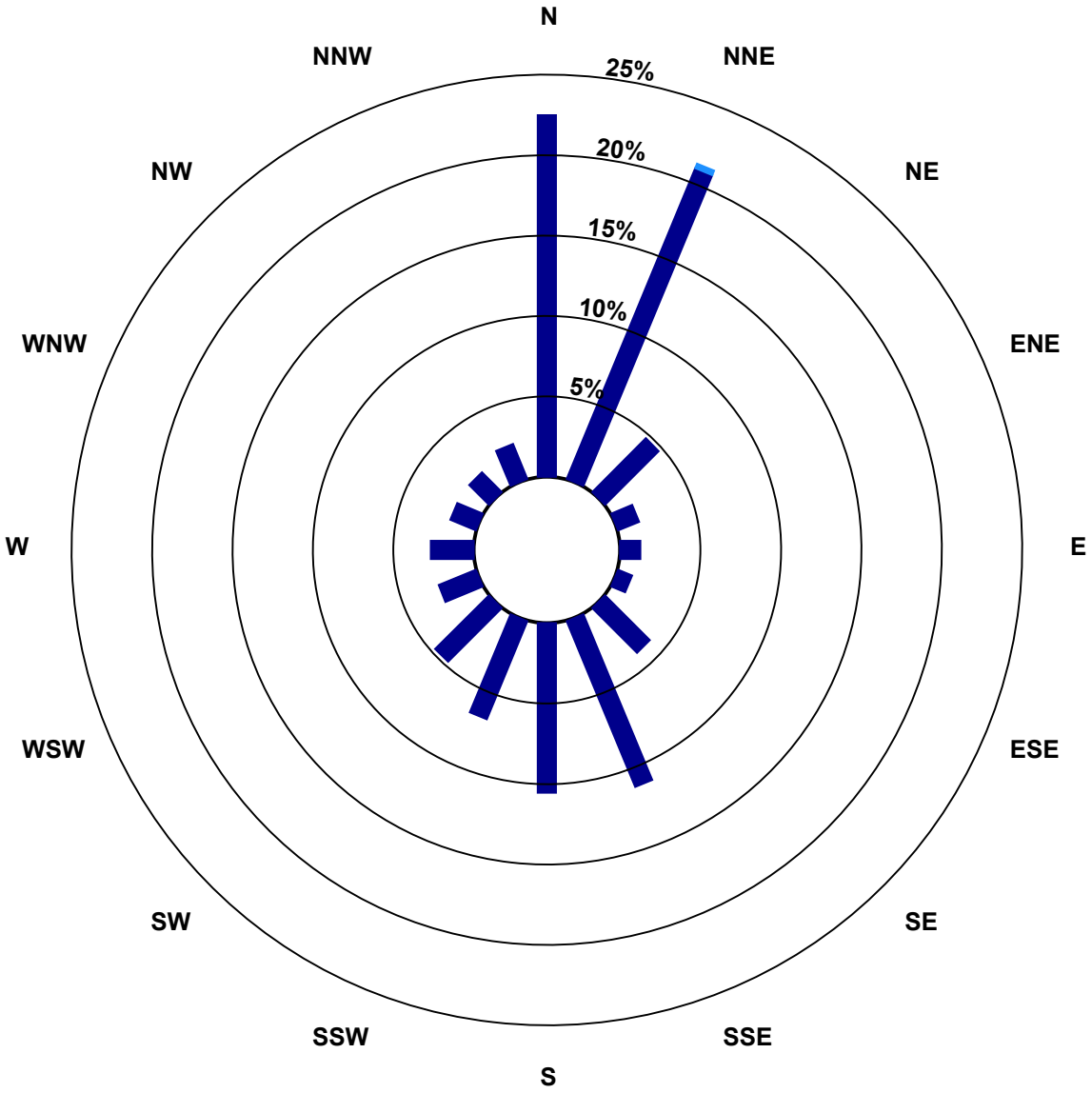
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Reduced Sulphur (TRS) - ppb

Ells River



Classes (ppb)

- 0 - 2
- 3 - 4
- 5 - 7
- 8 - 11
- > 11

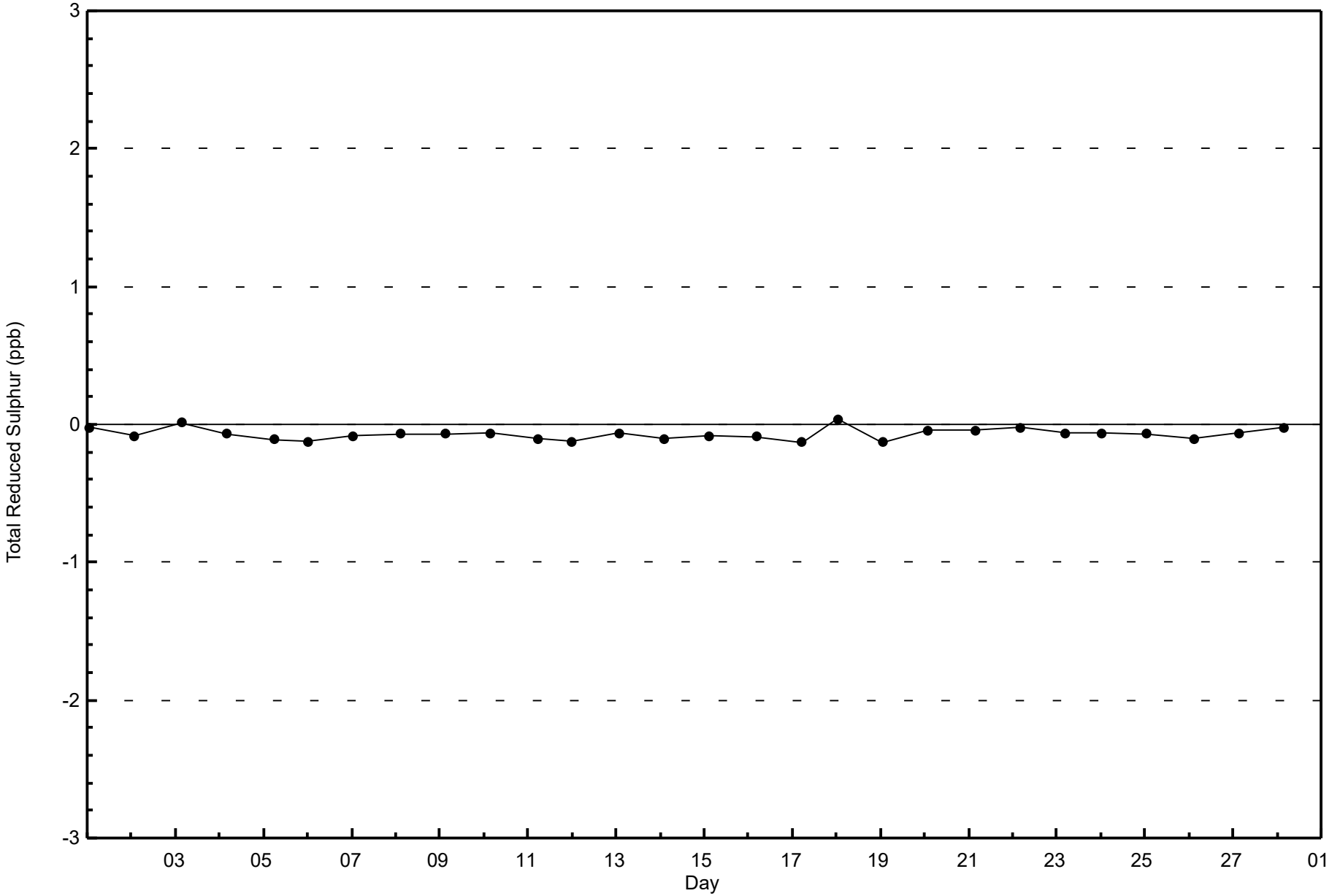
Total Number of Valid Hours: 636

Wood Buffalo Environmental Association

Zero Responses

Total Reduced Sulphur (TRS) - ppb

Ells River - February 2026

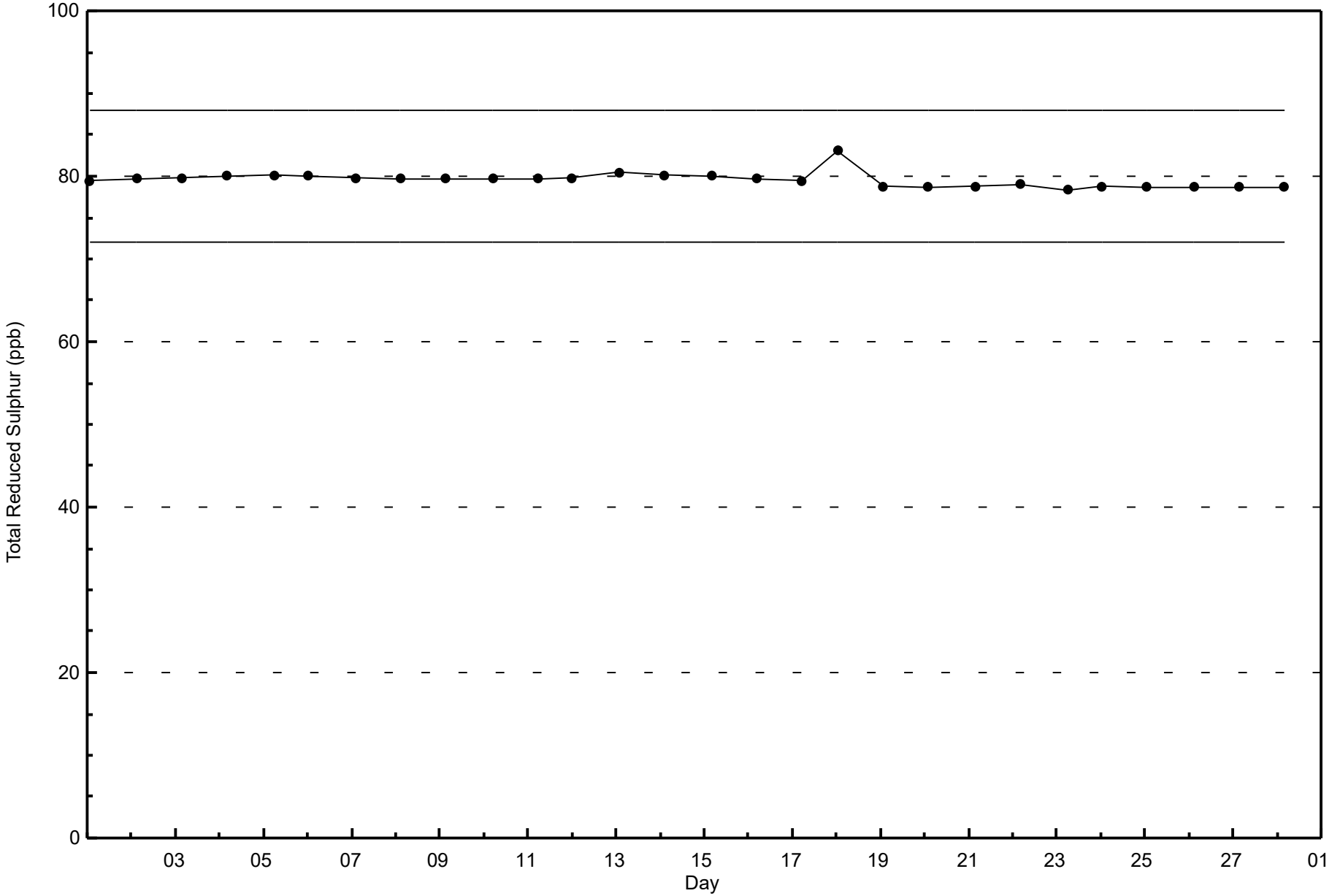


Wood Buffalo Environmental Association

Span Responses

Total Reduced Sulphur (TRS) - ppb

Ells River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Ells River - February 2026

Maximum Value: 4.7 ppm on Feb 14 18:00

Maximum Daily Average: 3.0 ppm on Feb 14

Minimum Value: 1.9 ppm on Feb 24 18:00

Minimum Daily Average: 2.0 ppm on Feb 26

Maximum Diurnal Average: 2.4 ppm at hour 9

Minimum Diurnal Average: 2.2 ppm at hour 15

Monthly Average: 2.26 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.0 Median = 2.1 Q_3 = 2.3 P_{90} = 2.7 P_{99} = 4.0

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1
2-Feb	2.1	Z	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.6	2.8	2.8	2.8	2.6	2.4	2.3	2.8
3-Feb	2.3	2.1	Z	2.1	2.1	2.1	2.2	2.1	2.2	2.2	2.1	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
4-Feb	2.1	2.2	2.2	Z	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2
5-Feb	2.0	2.0	2.0	2.0	Z	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.3
6-Feb	2.3	2.1	2.3	2.7	2.9	Z	2.9	2.6	2.6	2.8	3.1	3.1	2.8	2.7	2.3	2.5	2.6	2.6	2.6	2.5	2.4	2.3	2.3	2.4	2.6	3.1
7-Feb	Z	2.2	2.9	2.7	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.9
8-Feb	2.1	Z	2.1	2.4	4.2	4.6	4.0	4.0	4.0	2.8	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.1	2.1	2.1	2.1	2.6	4.6
9-Feb	2.1	2.2	Z	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.2	2.1	2.3
10-Feb	2.2	2.1	2.2	Z	2.2	2.3	3.0	3.0	2.5	2.3	C	C	C	C	C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	3.0
11-Feb	2.1	2.1	2.1	2.2	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.8	2.3	2.6	2.2	2.8
12-Feb	2.7	2.8	2.3	2.1	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.2	2.1	2.2	2.1	2.0	2.0	2.0	2.1	2.8
13-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	M	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.9	2.9	2.9	2.8	2.2	2.9
14-Feb	2.7	Z	2.1	2.1	2.1	2.0	2.1	2.3	3.0	3.8	4.5	4.4	3.3	3.2	3.5	3.7	4.0	4.7	3.3	2.7	2.3	2.4	2.4	2.1	3.0	4.7
15-Feb	2.2	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.2	2.2	2.1	2.3
16-Feb	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.3	2.3	4.5	2.6	2.6	2.5	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	4.5
17-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1
18-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1
19-Feb	Z	2.1	2.1	2.1	2.3	2.2	2.3	2.2	2.4	2.5	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.3	2.2	2.2	2.3	2.2	2.5
20-Feb	2.4	Z	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.3	2.3	2.3	2.3	2.6	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.6
21-Feb	2.2	2.1	Z	2.3	2.2	2.3	2.4	2.7	2.6	2.6	2.6	2.4	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.7
22-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.3	2.3	2.5	2.5	2.2	2.5
23-Feb	2.7	2.8	2.7	2.7	Z	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.7	3.7	3.4	3.4	3.5	3.5	3.4	3.3	2.6	3.7
24-Feb	3.3	3.1	3.1	3.0	2.9	Z	3.2	3.3	3.2	2.7	2.2	2.1	2.1	2.0	2.0	2.1	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.2	2.5	3.3
25-Feb	Z	2.5	2.6	2.9	3.2	3.2	3.0	2.8	2.9	2.5	2.4	2.2	2.2	2.2	2.3	2.2	2.1	2.9	3.1	2.4	2.1	2.1	2.1	2.0	2.5	3.2
26-Feb	2.0	Z	2.1	2.1	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
27-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.3	2.2	2.2	2.1	2.2	2.1	2.3
28-Feb	2.1	2.1	2.2	Z	2.2	2.1	2.2	2.5	2.9	2.6	2.3	2.2	2.5	2.3	2.3	2.3	2.3	2.1	2.0	2.1	2.2	2.2	2.2	2.3	2.3	2.9
	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.3	2.2	2.2	Diurnal Average	
	3.3	3.1	3.1	3.0	4.2	4.6	4.0	4.0	4.0	3.8	4.5	4.4	3.3	3.2	3.5	3.7	4.0	4.7	3.4	3.4	3.5	3.5	3.4	3.3	Diurnal Maximum	

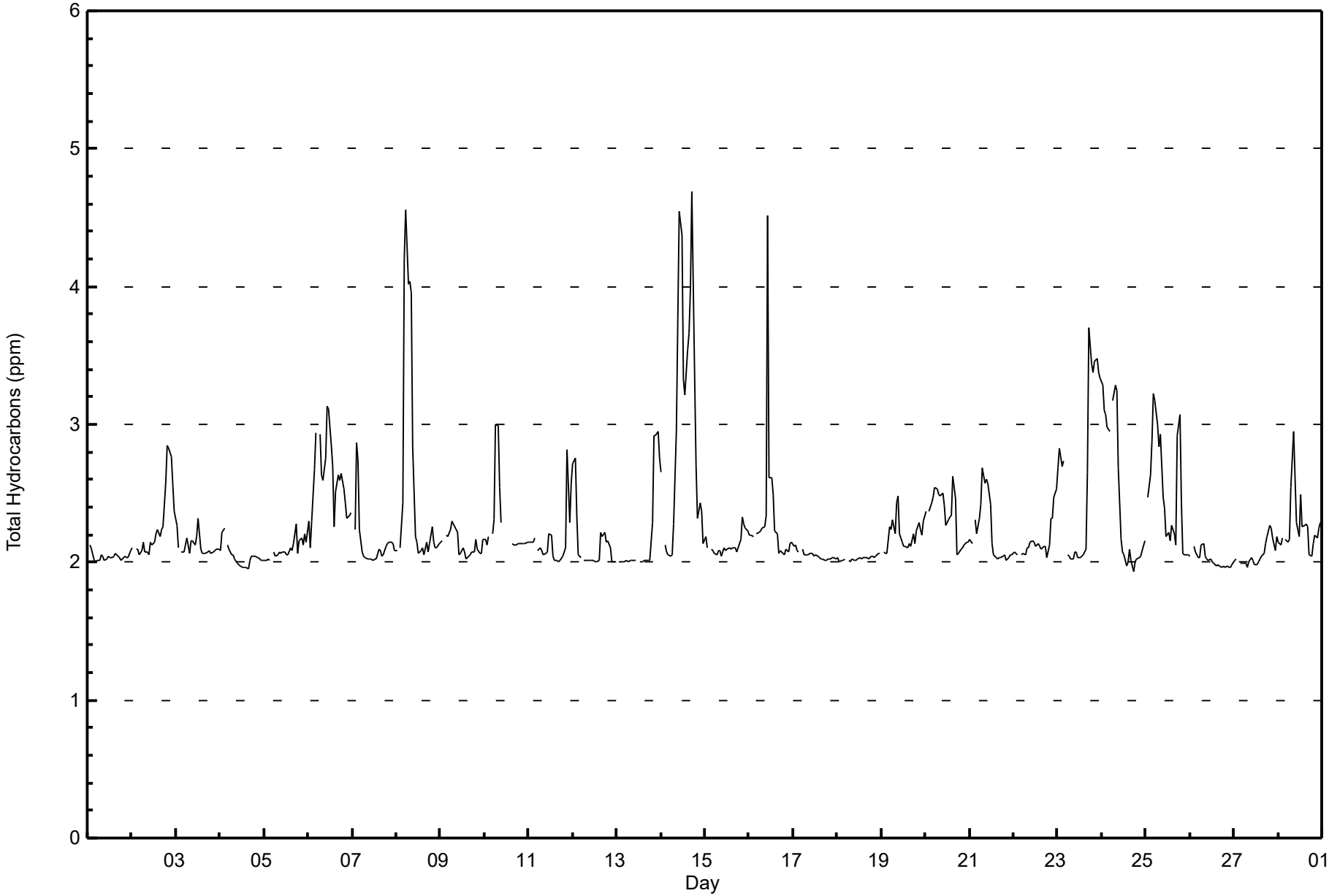
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Ells River - February 2026



Total Hydrocarbons (THC) - ppm
Ells River - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	182	28.53	28.53
2.1 - 3.0	422	66.14	94.67
3.1 - 10.0	34	5.33	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Ells River - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	46	52	4	0	0	0	11	17	9	16	20	5	0	0	0	2	182
2.1 - 3.0	89	76	26	9	9	4	14	52	52	28	10	10	14	9	8	11	421
3.1 - 10.0	8	5	1	0	0	0	0	4	1	1	0	0	4	2	3	3	32
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	143	133	31	9	9	4	25	73	62	45	30	15	18	11	11	16	635

Total Number of Valid Hours: 635

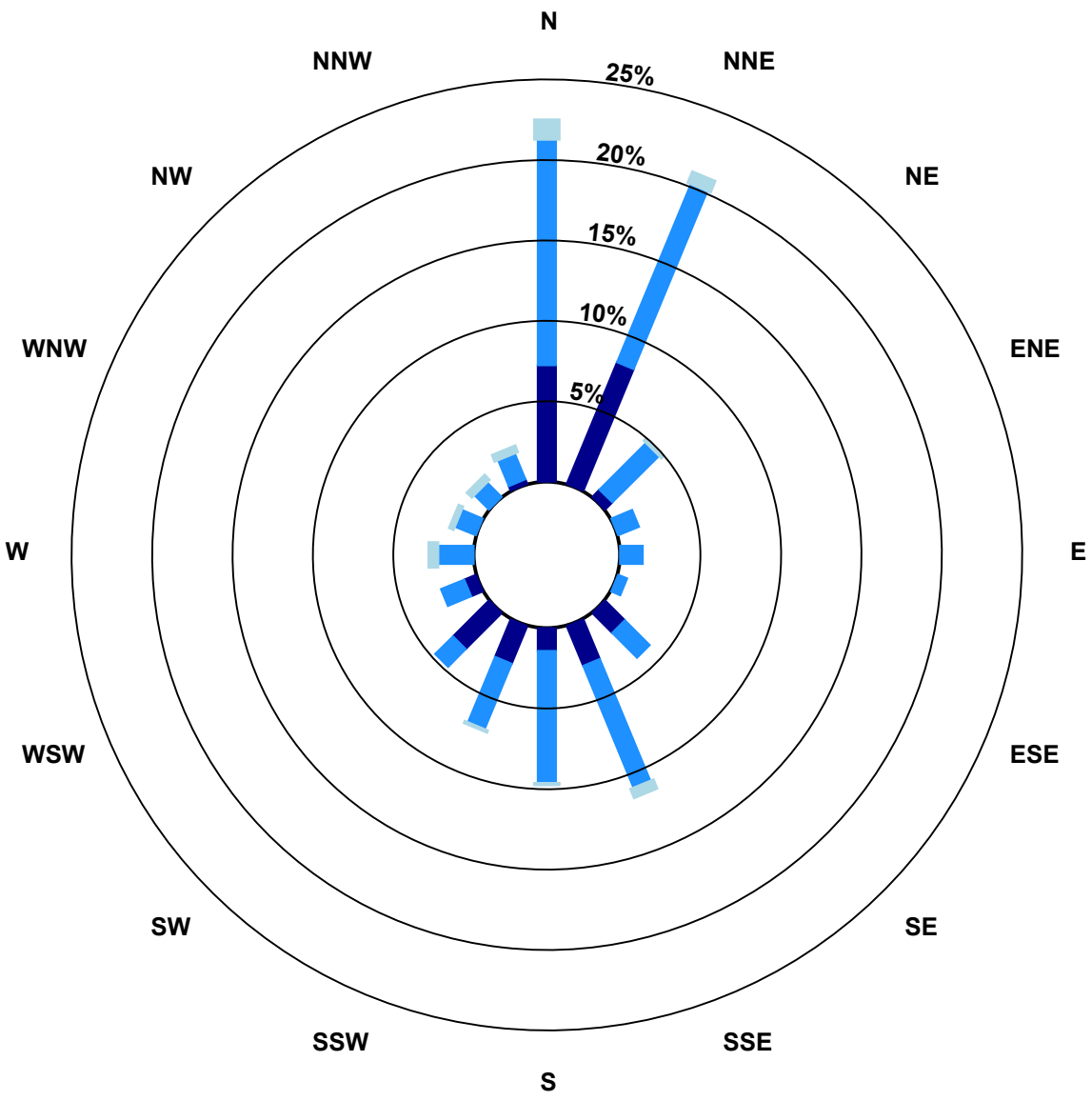
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Ells River



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

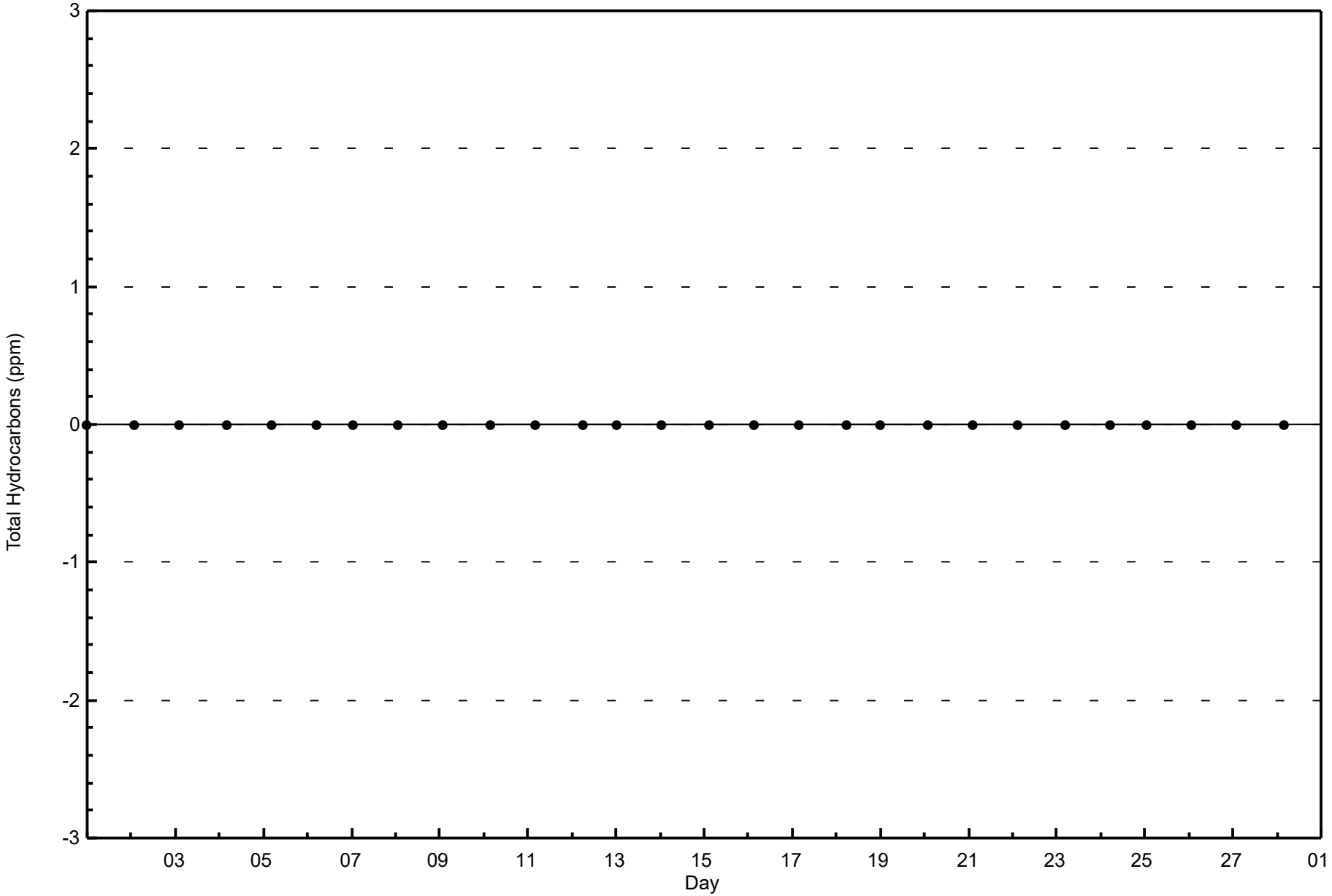
Total Number of Valid Hours: 635

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Ells River - February 2026

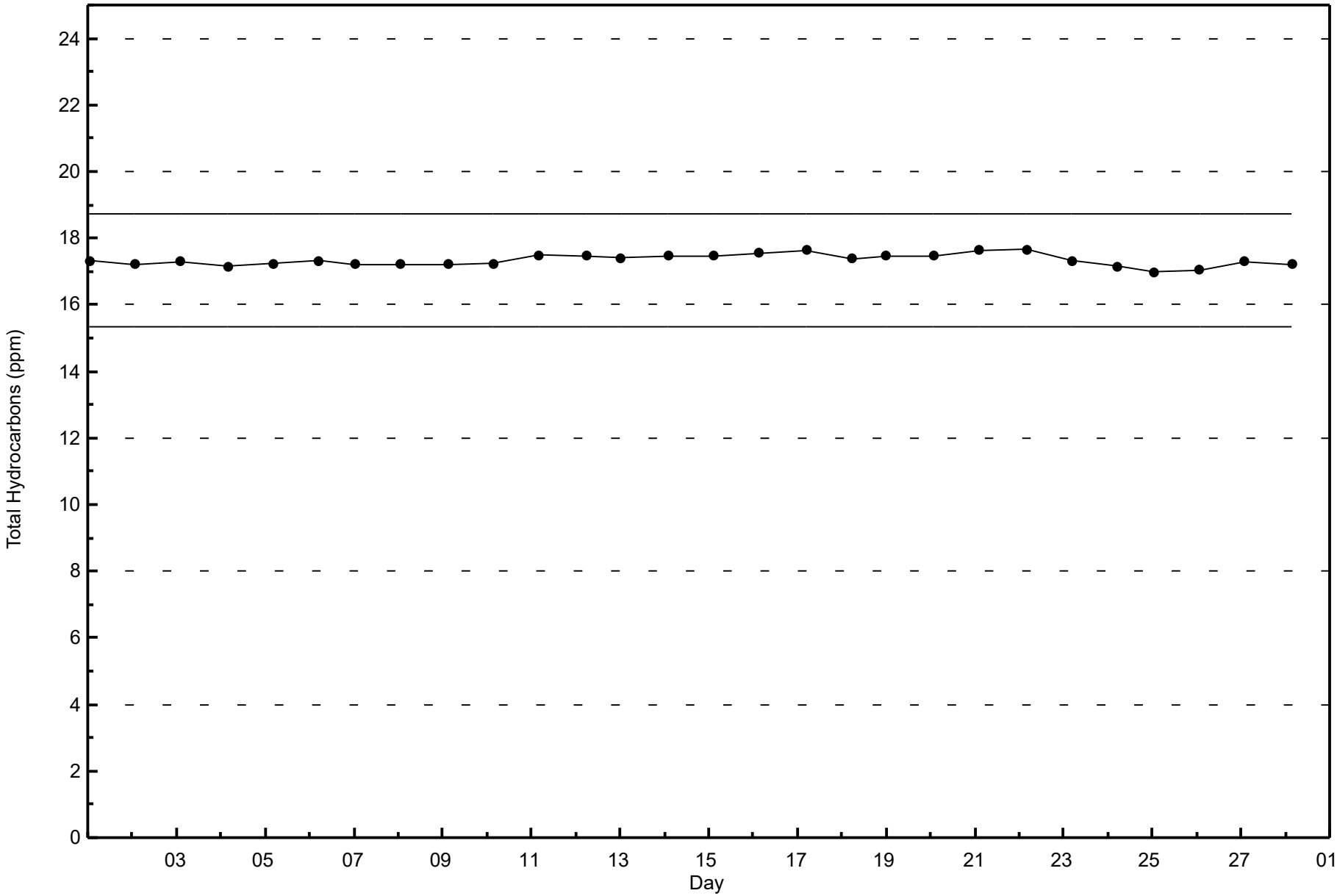


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Ells River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Non Methane Hydrocarbons (NMHC) - ppm

Ells River - February 2026

Maximum Value: 1.403 ppm on Feb 23 18:00

Maximum Daily Average: 0.377 ppm on Feb 23

Minimum Value: 0.000 ppm on Feb 1 02:00

Minimum Daily Average: 0.000 ppm on Feb 1

Maximum Diurnal Average: 0.136 ppm at hour 18

Minimum Diurnal Average: 0.042 ppm at hour 15

Monthly Average: 0.071 ppm

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 0.0 P_{90} = 0.2 P_{99} = 0.9

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Feb	0.000	Z	0.000	0.000	0.000	0.038	0.066	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082	0.261	0.252	0.203	0.159	0.106	0.051	0.261
3-Feb	0.064	0.000	Z	0.002	0.000	0.031	0.034	0.003	0.004	0.004	0.000	0.026	0.195	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.195
4-Feb	0.038	0.173	0.204	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.204
5-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.177	0.022	0.042	0.000	0.000	0.031	0.000	0.014	0.177
6-Feb	0.024	0.000	0.006	0.120	0.233	Z	0.282	0.285	0.277	0.390	0.510	0.501	0.376	0.322	0.048	0.175	0.281	0.279	0.274	0.222	0.162	0.056	0.080	0.095	0.217	0.510
7-Feb	Z	0.013	0.205	0.262	0.110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.262
8-Feb	0.000	Z	0.000	0.048	0.334	0.609	0.681	0.638	0.375	0.157	0.000	0.000	0.000	0.000	0.000	0.000	0.088	0.027	0.000	0.083	0.000	0.000	0.000	0.000	0.132	0.681
9-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.008	0.003	0.000	0.007	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.054
10-Feb	0.000	0.000	0.000	Z	0.003	0.054	0.243	0.375	0.327	0.211	C	C	C	C	C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.067	0.375
11-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.193	0.026	0.198	0.018	0.198
12-Feb	0.251	0.214	0.060	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.251
13-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	M	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.293	0.313	0.290	0.244	0.054	0.313
14-Feb	0.213	Z	0.013	0.000	0.000	0.000	0.000	0.085	0.330	0.519	0.556	0.519	0.427	0.431	0.555	0.570	0.820	1.292	0.465	0.277	0.089	0.084	0.074	0.006	0.318	1.292
15-Feb	0.028	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.028
16-Feb	0.002	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.003	0.353	0.206	0.190	0.128	0.045	0.053	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.043	0.353
17-Feb	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Feb	0.000	0.000	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Feb	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.009	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.094
20-Feb	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.178	0.014	0.000	0.074	0.098	0.087	0.365	0.198	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.046	0.365
21-Feb	0.000	0.000	Z	0.120	0.100	0.145	0.232	0.450	0.375	0.383	0.329	0.199	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.101	0.450
22-Feb	0.000	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.028	0.000	0.085	0.119	0.010	0.119
23-Feb	0.175	0.191	0.132	0.160	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.343	1.403	1.201	1.118	1.160	1.114	0.931	0.751	0.377	1.403
24-Feb	0.699	0.569	0.561	0.503	0.471	Z	0.436	0.405	0.374	0.203	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.187	0.699
25-Feb	Z	0.200	0.227	0.253	0.223	0.216	0.196	0.166	0.194	0.069	0.000	0.000	0.009	0.063	0.170	0.134	0.022	0.446	0.444	0.180	0.000	0.000	0.000	0.000	0.140	0.446
26-Feb	0.000	Z	0.070	0.043	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.070
27-Feb	0.000	0.000	Z	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.075	0.112	0.208	0.181	0.111	0.018	0.087	0.035	0.208
28-Feb	0.028	0.000	0.013	Z	0.040	0.014	0.000	0.076	0.179	0.080	0.000	0.032	0.304	0.140	0.207	0.208	0.178	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.304
	0.066	0.059	0.065	0.066	0.064	0.046	0.077	0.089	0.088	0.080	0.066	0.057	0.058	0.044	0.042	0.057	0.072	0.136	0.093	0.087	0.077	0.074	0.060	0.059	Diurnal Average	
	0.699	0.569	0.561	0.503	0.471	0.609	0.681	0.638	0.375	0.519	0.556	0.519	0.427	0.431	0.555	0.570	0.820	1.403	1.201	1.118	1.160	1.114	0.931	0.751	Diurnal Maximum	

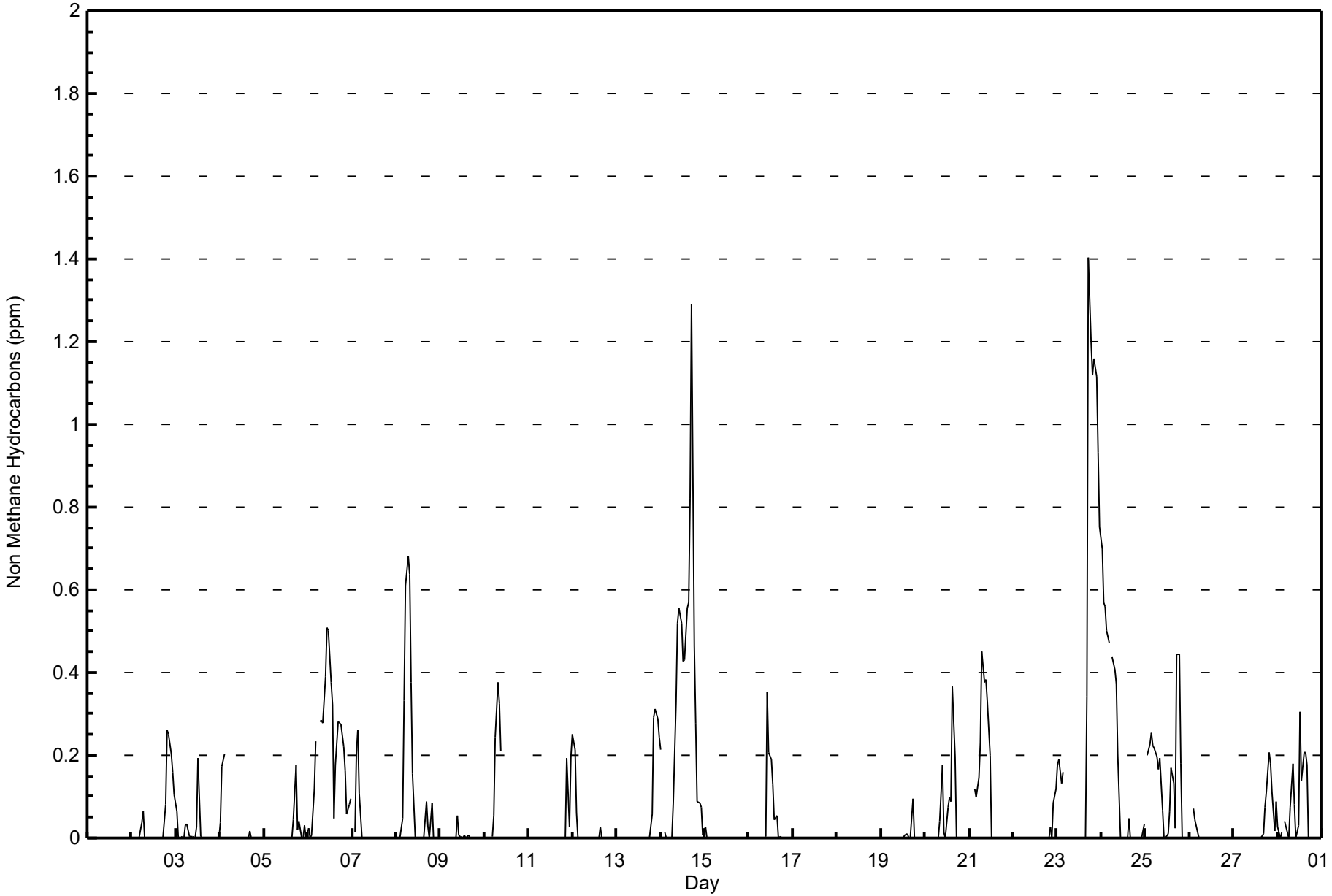
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Non Methane Hydrocarbons (NMHC) - ppm

Ells River - February 2026



Non Methane Hydrocarbons (NMHC) - ppm
Ells River - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 0.005	446	69.91	69.91
0.006 - 0.05	46	7.21	77.12
0.06 - 0.1	39	6.11	83.23
> 0.1	107	16.77	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Non Methane Hydrocarbons (NMHC) - ppm

Ells River - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 0.005	107	104	22	5	8	4	19	50	44	36	26	10	4	4	2	1	446
0.006 - 0.05	7	9	5	2	0	0	1	6	6	3	0	1	0	0	2	3	45
0.06 - 0.1	8	9	2	1	1	0	0	6	3	1	1	1	1	1	0	4	39
> 0.1	21	11	2	1	0	0	5	11	9	5	3	3	13	6	7	8	105
Totals	143	133	31	9	9	4	25	73	62	45	30	15	18	11	11	16	635

Total Number of Valid Hours: 635

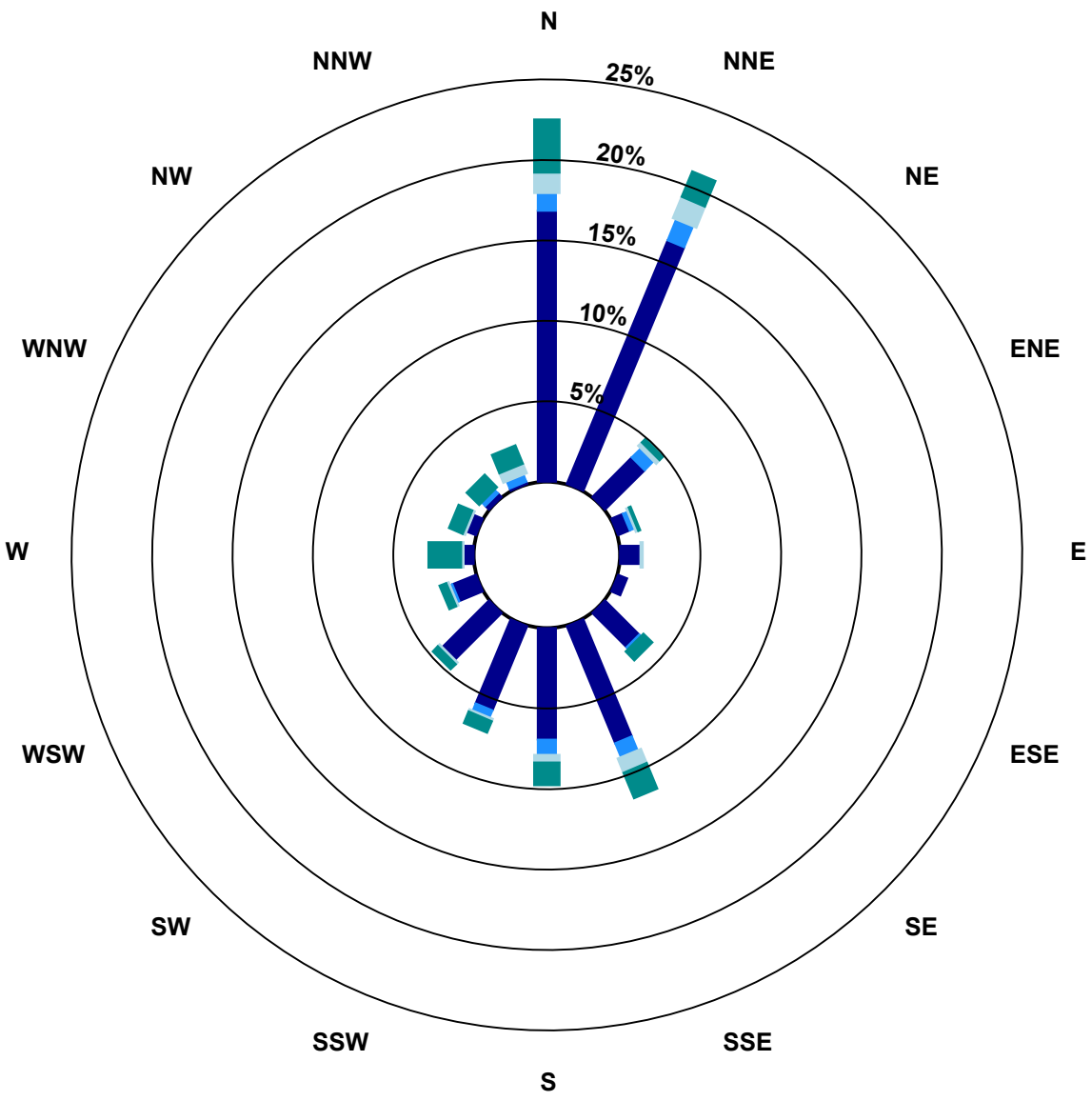
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Non Methane Hydrocarbons (NMHC) - ppm

Ells River



Classes (ppm)

0 - 0.005

0.006 - 0.05

0.06 - 0.1

> 0.1

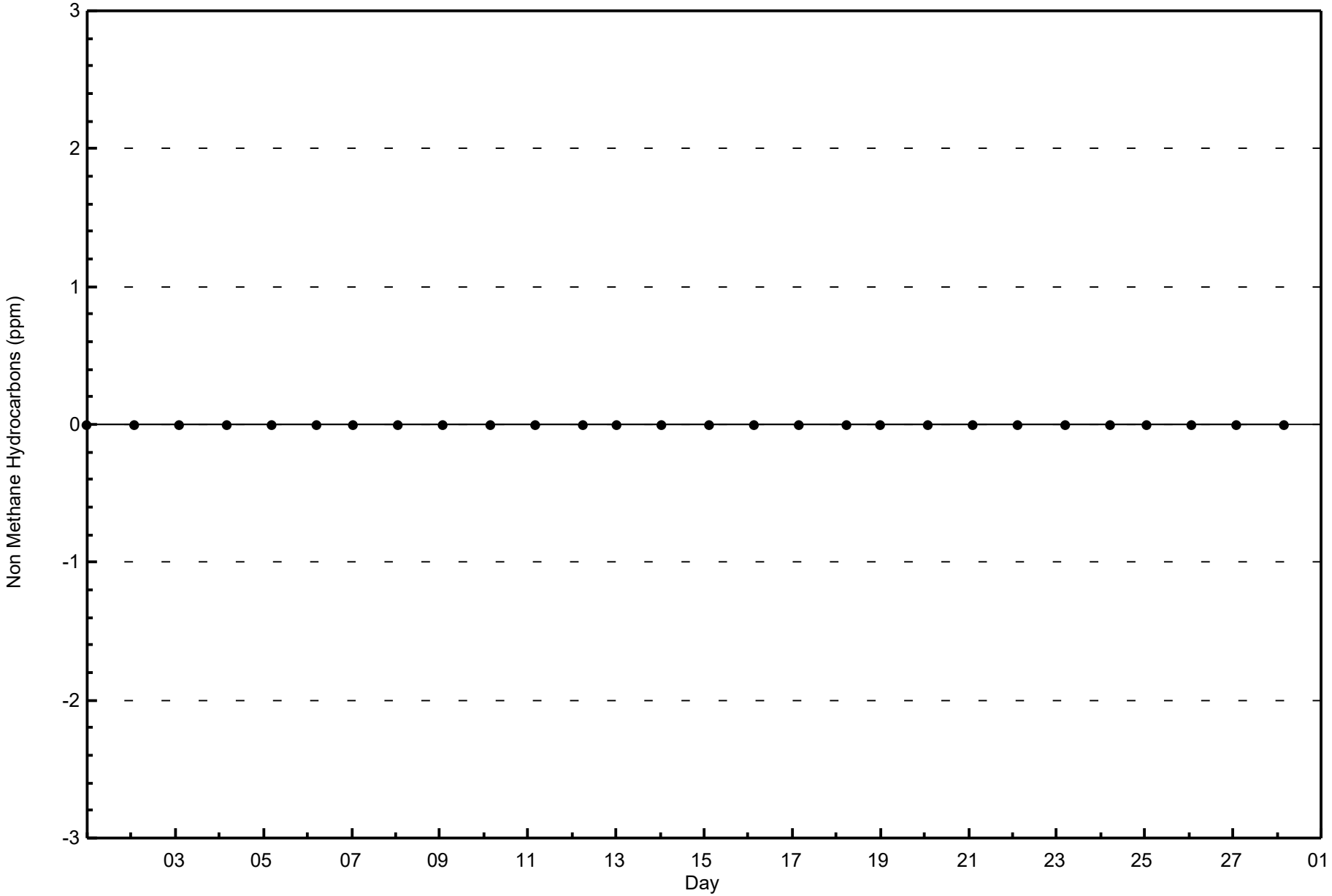
Total Number of Valid Hours: 635

Wood Buffalo Environmental Association

Zero Responses

Non Methane Hydrocarbons (NMHC) - ppm

Ells River - February 2026

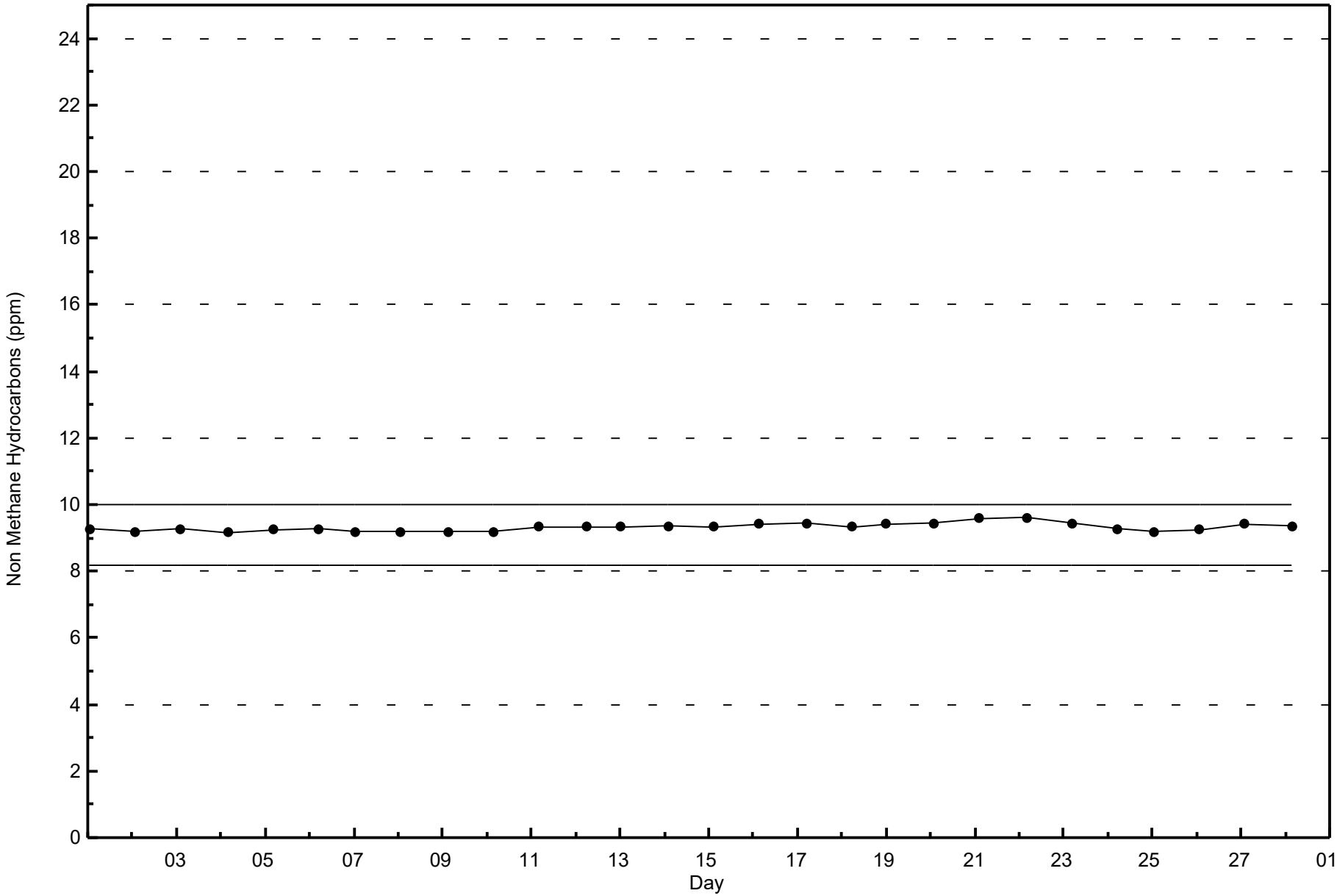


Wood Buffalo Environmental Association

Span Responses

Non Methane Hydrocarbons (NMHC) - ppm

Ells River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Methane (CH_4) - ppm

Ells River - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 4.2 ppm on Feb 16 11:00

Maximum Daily Average: 2.7 ppm on Feb 14

Minimum Value: 1.9 ppm on Feb 24 18:00

Minimum Daily Average: 2.0 ppm on Feb 26

Maximum Diurnal Average: 2.3 ppm at hour 11

Minimum Diurnal Average: 2.1 ppm at hour 15

Monthly Average: 2.18 ppm

Percentiles: P_1 = 2.0 P_{10} = 2.0 Q_1 = 2.0 Median = 2.1 Q_3 = 2.2 P_{90} = 2.5 P_{99} = 3.4

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	33
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1
2-Feb	2.1	Z	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.5	2.6	2.6	2.6	2.4	2.3	2.2	2.6
3-Feb	2.2	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
4-Feb	2.1	2.0	2.0	Z	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
5-Feb	2.0	2.0	2.0	2.0	Z	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.2	2.1	2.2	2.1	2.1	2.2
6-Feb	2.3	2.1	2.3	2.6	2.7	Z	2.7	2.4	2.3	2.4	2.6	2.6	2.5	2.4	2.2	2.3	2.4	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.7
7-Feb	Z	2.2	2.7	2.5	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.7
8-Feb	2.1	Z	2.1	2.4	3.9	3.9	3.3	3.4	3.6	2.7	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.2	2.1	2.1	2.1	2.1	2.5	3.9
9-Feb	2.1	2.2	Z	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.2	2.1	2.3
10-Feb	2.2	2.1	2.2	Z	2.2	2.3	2.8	2.6	2.2	2.1	C	C	C	C	C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.8
11-Feb	2.1	2.1	2.1	2.2	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.6	2.3	2.4	2.1	2.6
12-Feb	2.5	2.5	2.3	2.1	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.2	2.1	2.2	2.1	2.0	2.0	2.0	2.1	2.5
13-Feb	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	M	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.6	2.6	2.7	2.5	2.1	2.7
14-Feb	2.4	Z	2.1	2.1	2.1	2.0	2.1	2.2	2.6	3.2	4.0	3.9	2.9	2.8	3.0	3.1	3.2	3.4	2.9	2.4	2.2	2.3	2.3	2.1	2.7	4.0
15-Feb	2.2	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.2	2.2	2.1	2.3
16-Feb	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.2	2.3	2.3	4.2	2.4	2.4	2.4	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	4.2
17-Feb	2.1	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1
18-Feb	2.0	2.0	2.0	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1
19-Feb	Z	2.1	2.1	2.1	2.3	2.2	2.3	2.2	2.4	2.5	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.2	2.3	2.2	2.5
20-Feb	2.4	Z	2.4	2.4	2.5	2.5	2.5	2.5	2.4	2.3	2.4	2.3	2.2	2.2	2.3	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.5
21-Feb	2.2	2.1	Z	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.2
22-Feb	2.1	2.1	2.1	Z	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.3	2.3	2.4	2.4	2.1	2.4
23-Feb	2.5	2.6	2.6	2.6	Z	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.3	2.3	2.2	2.3	2.3	2.4	2.4	2.6	2.2	2.6
24-Feb	2.6	2.5	2.5	2.5	2.5	Z	2.7	2.9	2.9	2.5	2.2	2.1	2.1	2.0	2.0	2.1	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.3	2.9
25-Feb	Z	2.3	2.4	2.6	3.0	3.0	2.8	2.7	2.7	2.4	2.4	2.2	2.2	2.1	2.1	2.1	2.1	2.5	2.6	2.3	2.1	2.1	2.1	2.0	2.4	3.0
26-Feb	2.0	Z	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
27-Feb	2.0	2.0	Z	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1
28-Feb	2.1	2.1	2.2	Z	2.1	2.1	2.2	2.5	2.8	2.5	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.2	2.2	2.2	2.3	2.2	2.8
	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.3	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	Diurnal Average	
	2.6	2.6	2.7	2.6	3.9	3.9	3.3	3.4	3.6	3.2	4.2	3.9	2.9	2.8	3.0	3.1	3.2	3.4	2.9	2.6	2.6	2.6	2.7	2.6	Diurnal Maximum	

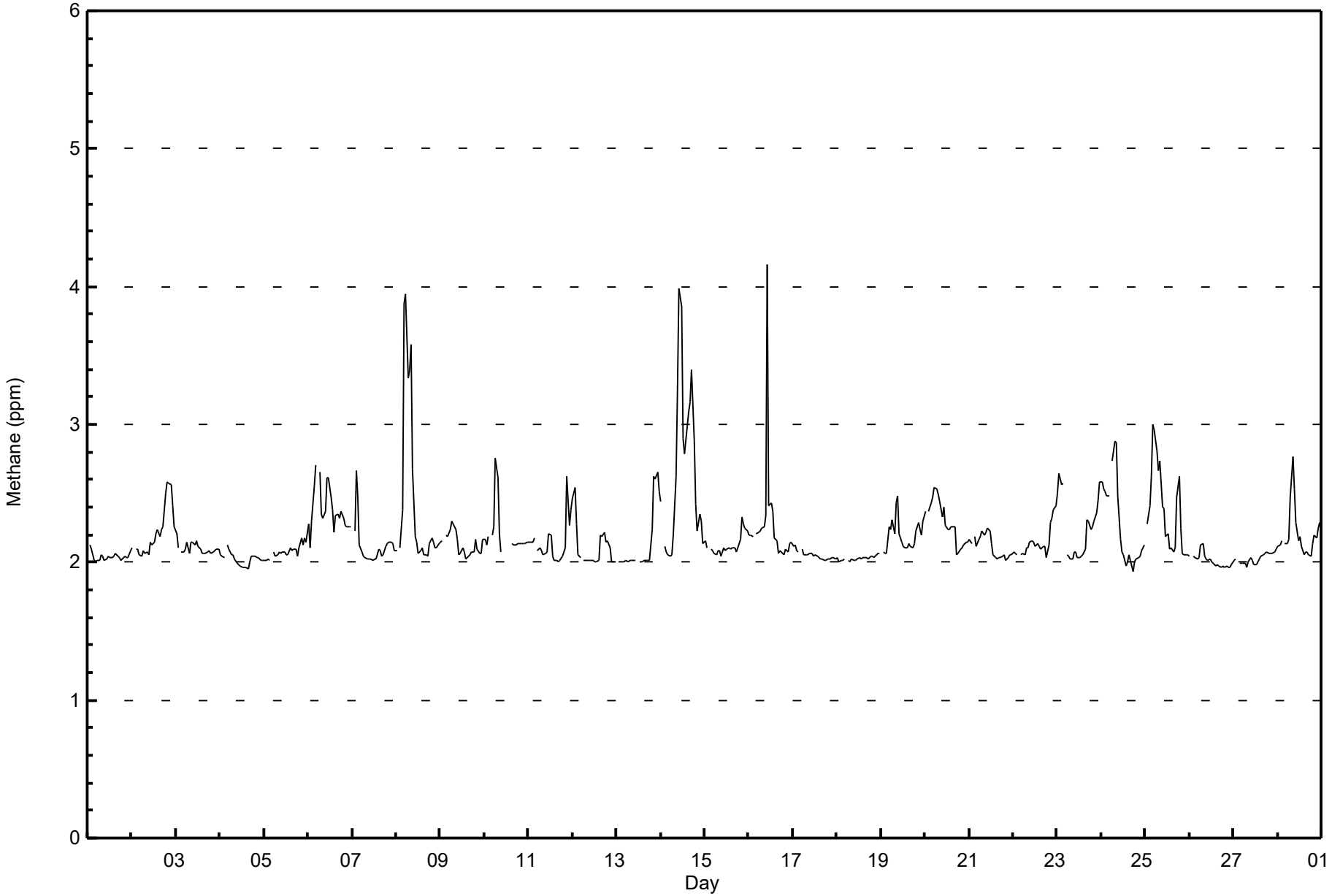
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Methane (CH_4) - ppm

Ells River - February 2026



Methane (CH_4) - ppm
Ells River - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	191	29.94	29.94
2.1 - 3.0	435	68.18	98.12
3.1 - 10.0	12	1.88	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Methane (CH_4) - ppm

Ells River - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	46	55	6	1	0	0	11	19	10	16	20	5	0	0	0	2	191
2.1 - 3.0	92	76	25	8	9	4	14	54	52	29	10	10	18	11	8	12	432
3.1 - 10.0	5	2	0	0	0	0	0	0	0	0	0	0	0	0	3	2	12
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	143	133	31	9	9	4	25	73	62	45	30	15	18	11	11	16	635

Total Number of Valid Hours: 635

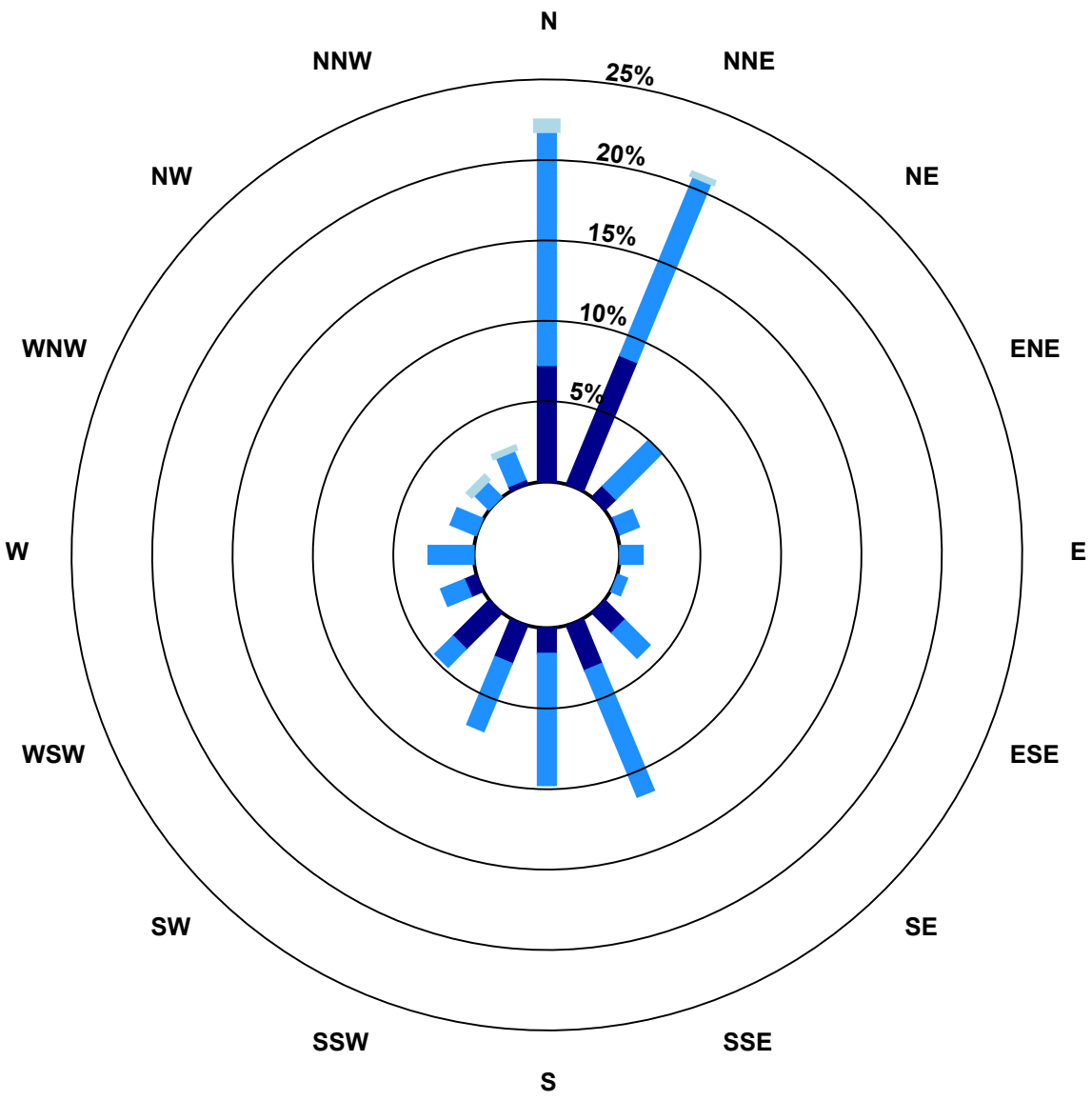
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Methane (CH_4) - ppm

Ells River



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

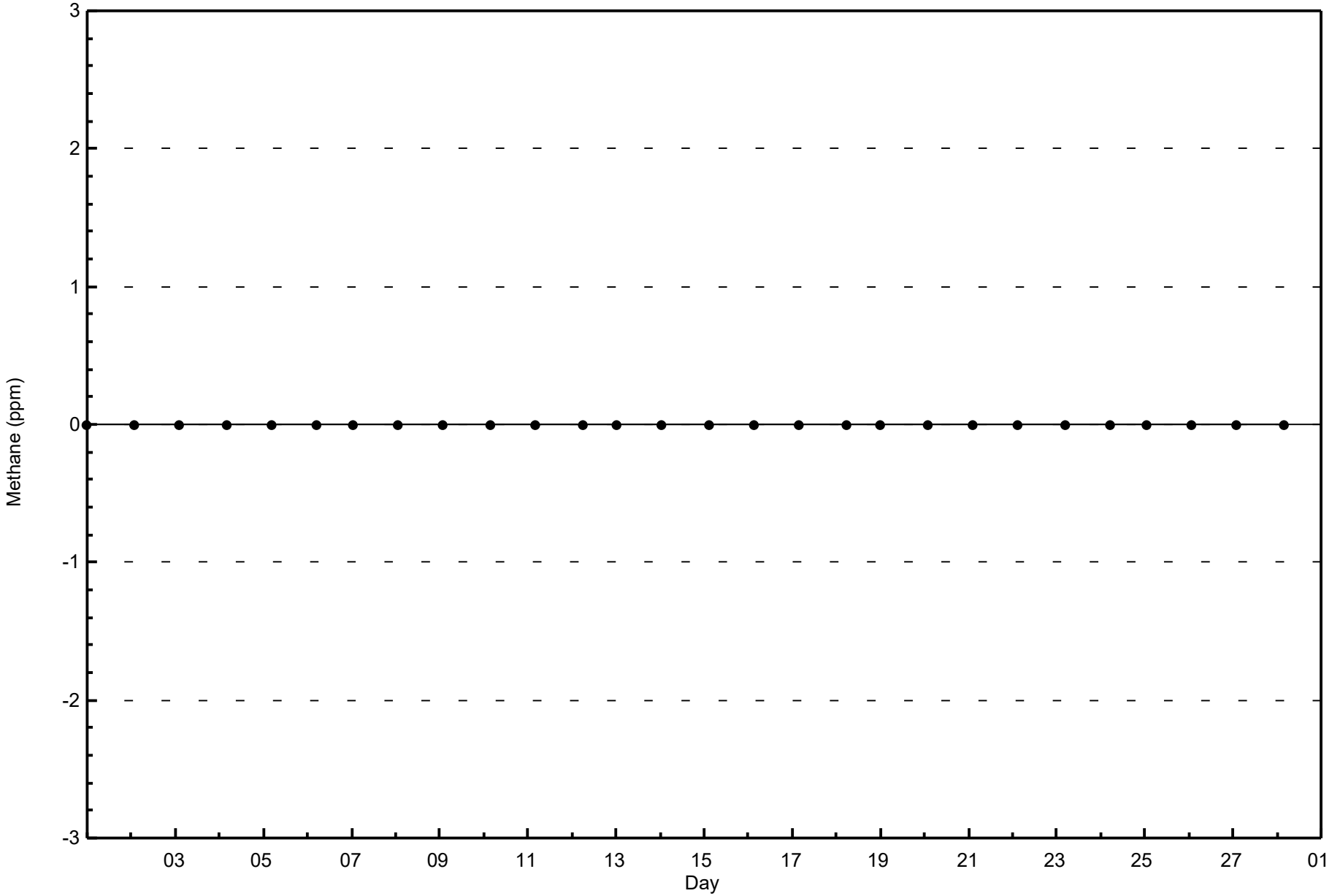
Total Number of Valid Hours: 635

Wood Buffalo Environmental Association

Zero Responses

Methane (CH_4) - ppm

Ells River - February 2026

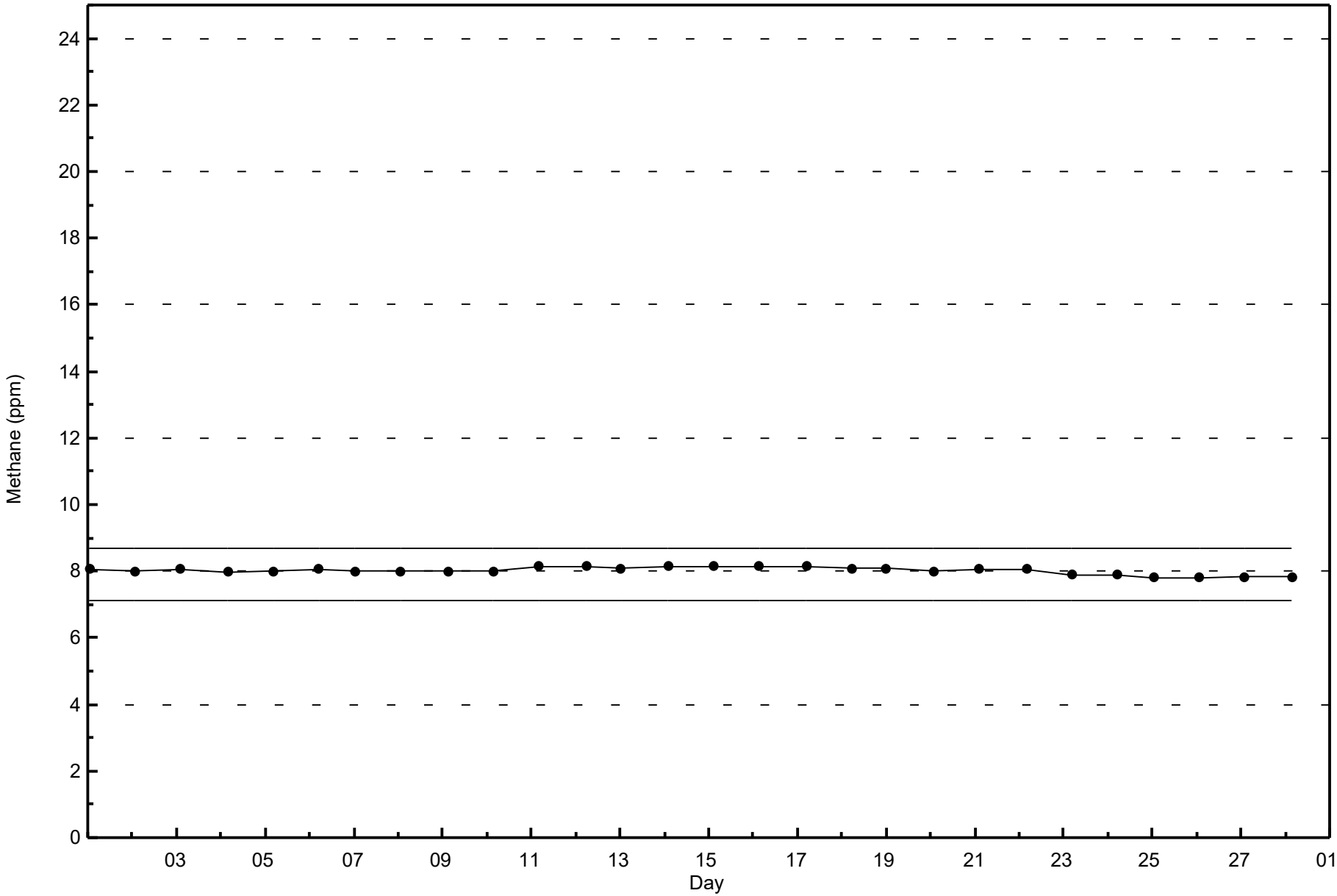


Wood Buffalo Environmental Association

Span Responses

Methane (CH_4) - ppm

Ells River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Ells River - February 2026

Maximum Value: 120.5 ppb on Feb 14 18:00

Maximum Daily Average: 33.3 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 1 04:00

Minimum Daily Average: 0.1 ppb on Feb 4

Maximum Diurnal Average: 14.6 ppb at hour 11

Minimum Diurnal Average: 2.5 ppb at hour 20

Monthly Average: 6.54 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 1.1 Q_3 = 6.1 P_{90} = 19.2 P_{99} = 69.1

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	0.0	0.1	0.0	Z	0.0	0.0	0.4	1.2	0.3	0.9	2.4	2.0	2.4	2.4	1.4	0.7	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.6	2.4
2-Feb	0.1	0.0	0.0	0.0	0.0	Z	0.1	0.1	0.7	0.7	0.7	1.3	2.3	4.4	7.9	4.8	5.2	1.3	14.5	40.1	36.2	23.5	8.8	1.1	6.7	40.1
3-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.7	3.6	4.3	6.5	2.5	1.7	1.5	0.6	0.1	0.0	0.1	0.0	0.0	0.1	0.3	1.0	6.5
4-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.2	0.4	0.1	0.5	0.8	0.2	0.1	0.1	0.1	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8
5-Feb	0.0	0.0	Z	0.0	0.0	0.1	0.1	0.1	0.3	0.9	2.1	3.1	3.0	3.3	3.5	3.0	0.7	0.1	0.0	0.0	0.1	0.0	0.1	0.6	0.9	3.5
6-Feb	6.1	0.1	0.3	Z	32.9	22.6	24.5	11.6	14.1	18.3	28.9	28.6	22.6	20.4	4.2	3.9	2.9	2.3	1.2	0.2	0.9	0.1	0.1	0.2	10.7	32.9
7-Feb	0.0	0.3	33.1	15.8	Z	0.0	0.1	0.1	0.2	0.7	1.1	1.3	1.7	1.8	1.8	1.0	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.6	33.1
8-Feb	0.0	0.0	0.0	6.6	54.8	Z	58.0	58.8	51.6	22.6	3.0	3.7	3.0	2.9	2.8	2.0	1.2	0.1	0.2	0.4	0.5	0.1	0.0	0.1	11.8	58.8
9-Feb	Z	0.1	0.2	1.1	0.1	0.1	1.1	4.6	8.1	7.4	2.6	4.3	5.8	4.5	2.1	2.0	1.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	2.0	8.1
10-Feb	0.1	Z	0.1	0.1	0.1	0.2	14.2	16.7	3.7	0.9	2.9	3.3	6.5	10.2	9.1	3.0	1.1	0.1	0.1	0.2	0.0	0.1	0.1	0.6	3.2	16.7
11-Feb	0.1	0.1	Z	0.1	0.1	0.0	0.1	0.2	0.1	0.6	C	C	C	C	C	C	0.5	0.9	0.3	1.0	4.7	20.0	0.3	2.4	--	20.0
12-Feb	7.0	12.8	4.8	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.6	2.7	0.4	0.4	0.1	0.0	0.1	0.0	0.0	0.0	1.3	12.8
13-Feb	0.0	0.0	0.1	0.0	Z	0.0	0.1	0.2	0.1	0.1	0.1	M	0.1	0.1	0.1	0.2	0.1	0.1	0.4	0.3	1.6	19.0	20.4	7.3	2.3	20.4
14-Feb	1.0	4.9	0.0	0.0	0.0	Z	0.1	2.0	14.6	62.4	95.5	87.7	50.5	47.2	64.3	71.8	91.2	120.5	39.9	8.3	0.8	0.5	1.1	0.3	33.3	120.5
15-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.6	0.9	1.7	3.4	4.9	6.1	5.6	4.2	2.9	0.5	0.2	2.3	6.3	5.3	2.5	3.1	2.2	6.3
16-Feb	0.7	Z	0.2	0.4	0.7	2.0	0.3	0.8	4.8	14.7	90.0	24.2	33.7	32.2	17.2	11.2	4.1	1.4	0.2	0.3	0.2	0.2	0.2	0.4	10.4	90.0
17-Feb	0.3	0.2	Z	0.2	0.5	0.4	0.5	0.6	1.4	2.0	2.0	1.6	1.4	1.0	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.8	0.6	2.0
18-Feb	1.3	0.6	1.3	Z	1.7	1.0	1.3	1.0	1.8	1.4	1.3	2.4	3.1	2.2	3.0	2.9	2.4	0.9	0.9	1.2	0.4	1.5	3.7	0.2	1.6	3.7
19-Feb	4.4	0.1	0.1	0.1	Z	33.2	46.6	24.1	52.7	54.8	22.2	12.2	6.3	4.8	4.0	3.6	3.8	1.8	0.0	0.4	0.9	0.3	0.1	3.6	12.2	54.8
20-Feb	6.2	3.7	6.7	8.0	14.5	Z	29.1	27.1	21.4	15.5	25.9	18.3	13.0	12.9	14.8	24.3	13.0	0.5	0.0	0.1	0.1	0.1	0.2	0.5	11.1	29.1
21-Feb	Z	0.2	1.6	4.0	4.2	6.1	14.9	12.1	8.9	15.0	22.6	23.0	13.4	3.5	2.1	1.0	0.6	0.1	0.0	0.0	0.0	0.2	0.4	0.6	5.9	23.0
22-Feb	1.3	Z	0.9	1.1	1.4	3.1	1.6	7.2	8.4	12.1	13.4	13.9	11.0	12.7	9.4	8.3	7.3	3.5	0.1	1.5	11.5	14.6	20.7	23.8	8.2	23.8
23-Feb	28.6	27.7	Z	19.3	3.1	0.0	0.1	0.3	0.7	4.0	6.1	5.2	4.3	4.2	3.8	3.8	12.7	3.7	2.0	0.1	0.5	6.9	7.0	6.4	6.5	28.6
24-Feb	8.1	8.9	8.8	Z	9.0	18.1	24.5	62.7	46.1	24.2	11.0	4.5	4.3	0.3	1.3	2.5	3.7	0.6	0.0	0.5	2.2	2.1	5.8	4.4	11.0	62.7
25-Feb	17.5	15.8	19.2	25.2	Z	24.8	17.4	13.2	21.0	18.5	22.4	8.4	4.7	2.0	4.3	3.4	4.4	19.2	37.1	5.7	0.1	0.1	0.2	0.1	12.4	37.1
26-Feb	0.1	0.1	0.2	0.2	0.2	Z	0.2	0.3	0.7	1.0	1.3	1.8	1.2	1.5	1.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8
27-Feb	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.6	4.3	6.3	5.9	5.8	6.7	7.6	8.9	10.6	8.3	7.8	7.2	6.4	6.5	10.6	10.8	7.0	5.3	10.8
28-Feb	6.8	Z	8.1	7.7	6.1	3.9	13.0	62.0	89.9	54.6	25.5	9.6	4.9	8.6	7.6	4.9	2.5	0.9	0.1	0.1	0.0	0.2	18.7	15.3	15.3	89.9
	3.9	3.3	3.6	3.7	5.6	5.0	8.9	11.0	12.8	12.2	14.6	10.6	8.0	7.4	6.8	6.6	6.2	6.0	3.7	2.5	2.6	3.8	3.6	2.8	Diurnal Average	
	28.6	27.7	33.1	25.2	54.8	33.2	58.0	62.7	89.9	62.4	95.5	87.7	50.5	47.2	64.3	71.8	91.2	120.5	39.9	40.1	36.2	23.5	20.7	23.8	Diurnal Maximum	

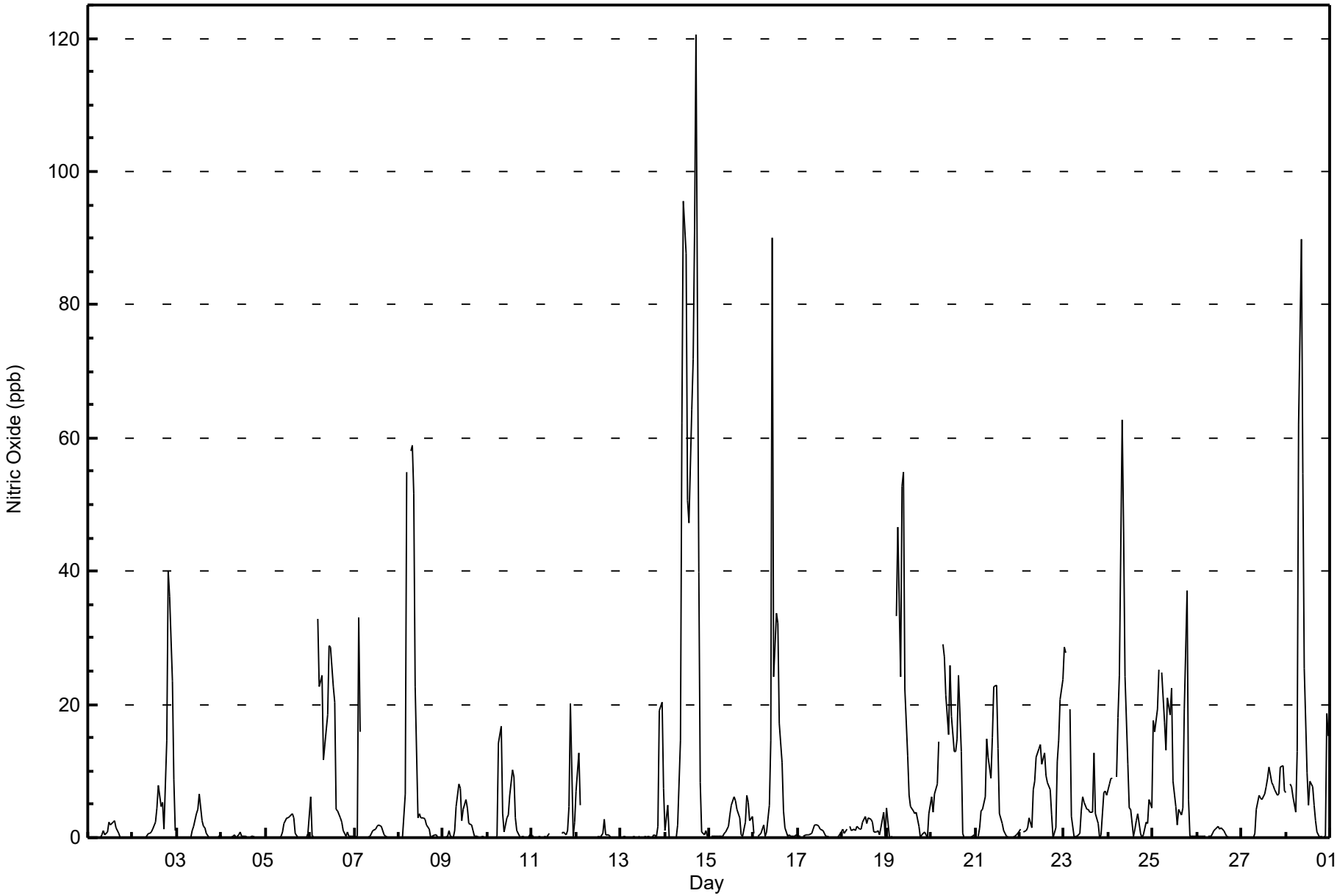
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Ells River - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	578	90.74	90.74
21 - 40	37	5.81	96.55
11 - 80	16	2.51	99.06
81 - 159	6	0.94	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Ells River - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	128	125	31	9	10	6	24	56	60	42	30	16	15	10	8	6	576
21 - 40	10	4	0	0	0	0	1	5	4	2	0	0	2	0	1	7	36
11 - 80	3	2	0	0	0	0	0	5	2	0	0	0	0	0	3	1	16
81 - 159	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	6
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	143	133	31	9	10	6	25	66	67	44	30	16	17	10	12	15	634

Total Number of Valid Hours: 634

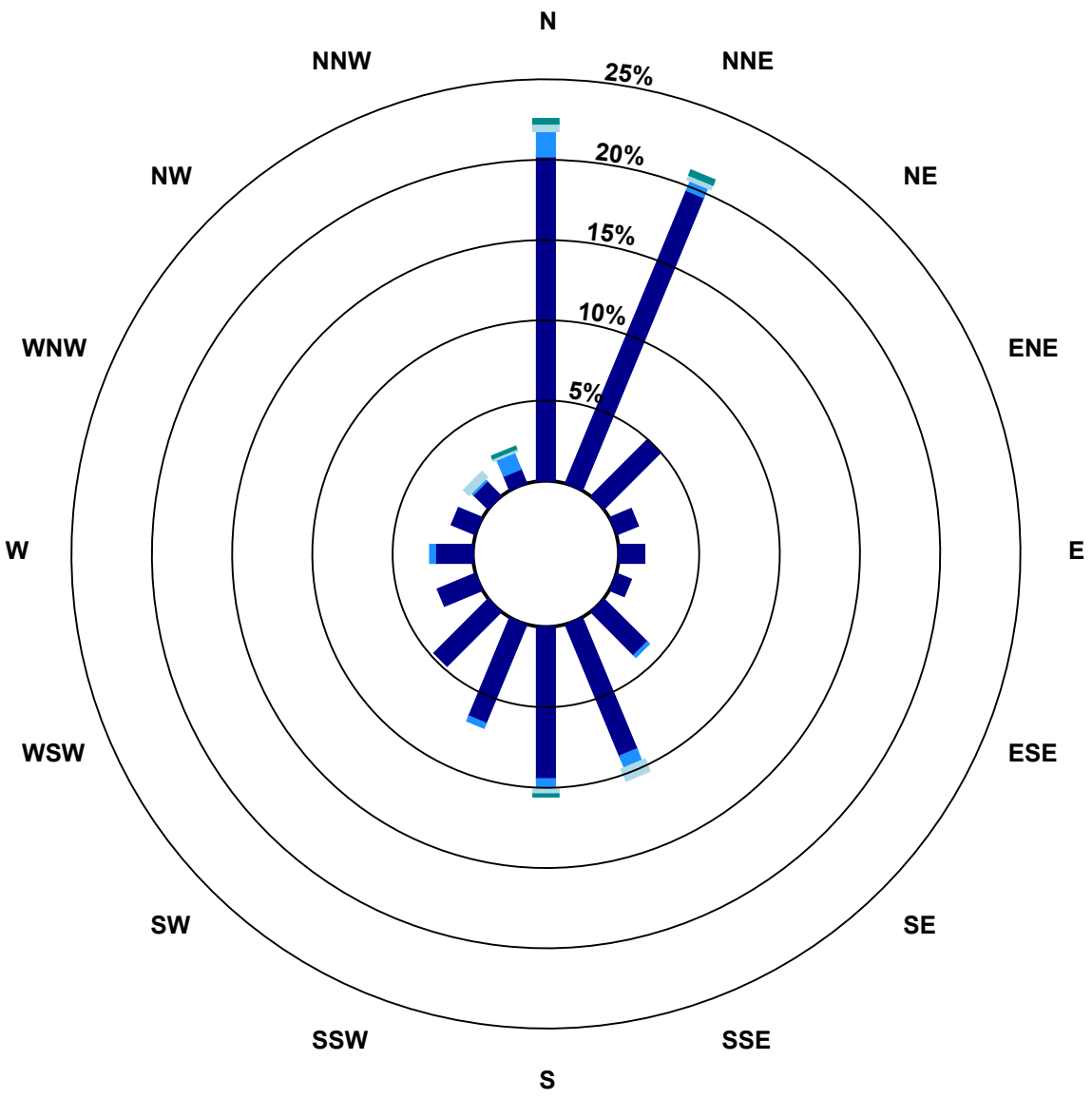
Total Number of Hours: 672

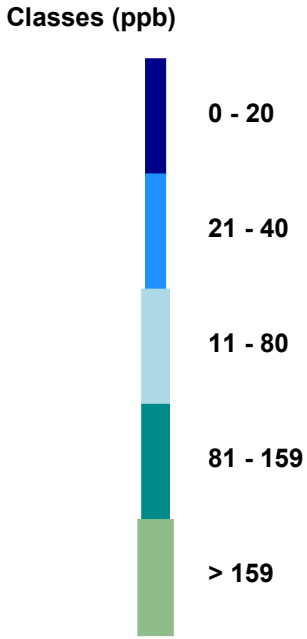
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Ells River





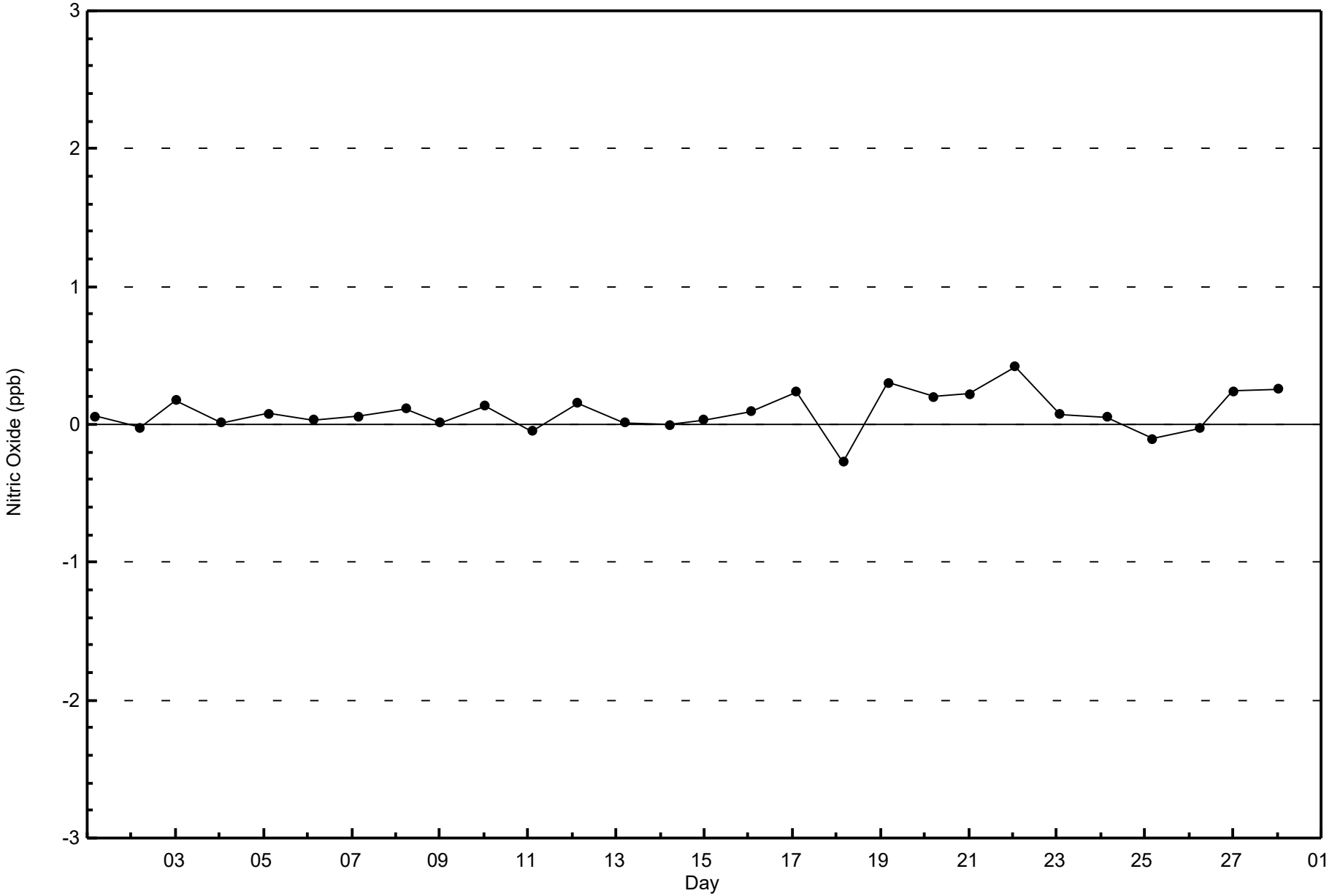
Total Number of Valid Hours: 634

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Ells River - February 2026

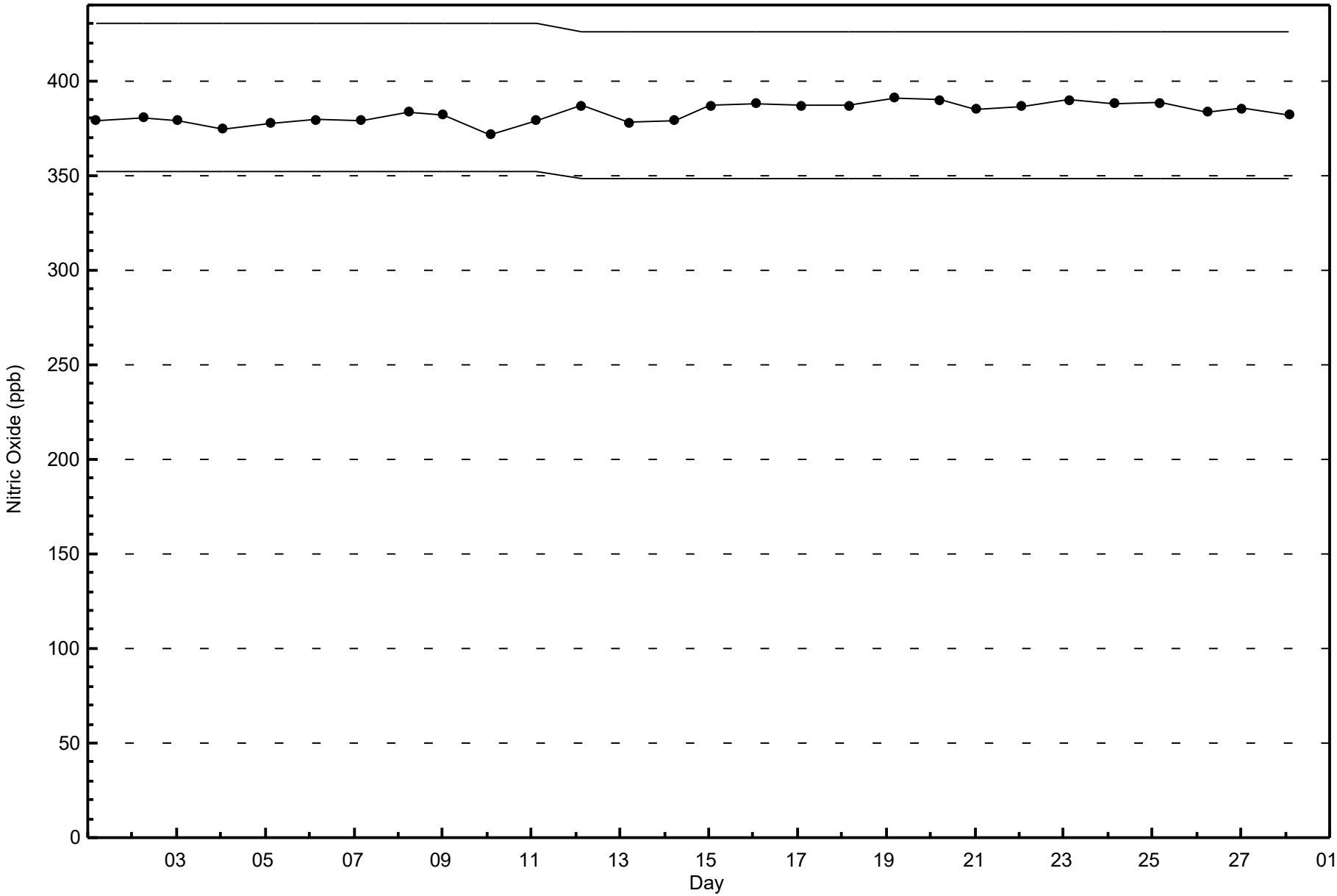


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Ells River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Ells River - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 53.9 ppb on Feb 14 18:00 Maximum Daily Average: 26.1 ppb on Feb 6

Minimum Value: 0.4 ppb on Feb 12 07:00 Minimum Daily Average: 1.9 ppb on Feb 18
Maximum Diurnal Average: 14.9 ppb at hour 24 Minimum Diurnal Average: 7.6 ppb at hour 14
Monthly Average: 12.10 ppb Percentiles: P_1 = 0.4 P_{10} = 1.5 Q_1 = 5.0 Median = 9.5 Q_3 = 17.3 P_{90} = 26.2 P_{99} = 37.5

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	13.1	14.5	13.0	2.2	Z	2.8	3.5	8.7	9.8	4.4	5.0	9.9	6.9	7.4	8.3	9.5	10.6	5.4	3.0	4.5	9.6	10.0	6.9	7.4	7.7	14.5
2-Feb	4.5	3.2	2.7	3.0	4.5	Z	7.2	5.8	6.8	4.4	3.9	5.3	7.4	10.2	15.1	14.3	19.4	21.6	23.3	28.8	30.1	29.5	28.1	23.5	13.2	30.1
3-Feb	Z	10.8	12.9	11.6	12.9	13.2	14.5	12.4	18.4	13.2	12.9	13.2	14.0	7.7	7.2	9.5	10.0	10.6	9.9	9.3	10.4	10.1	11.0	9.6	11.5	18.4
4-Feb	4.7	Z	3.8	3.8	8.8	4.9	3.4	2.9	1.7	1.3	2.1	1.0	1.1	1.0	0.8	0.8	3.4	8.6	5.0	4.7	3.9	6.9	5.4	5.7	3.7	8.8
5-Feb	6.3	3.9	Z	3.8	5.3	7.2	3.8	4.9	8.3	7.8	8.1	7.9	7.0	8.1	10.0	12.5	9.7	8.3	4.1	12.4	19.7	11.3	18.4	26.4	9.4	26.4
6-Feb	36.0	19.0	28.0	Z	36.9	36.5	36.3	34.2	32.1	29.1	29.8	28.8	26.2	23.8	18.1	18.2	22.0	24.9	26.3	22.7	20.2	19.7	15.7	15.1	26.1	36.9
7-Feb	15.2	15.8	24.4	24.9	Z	11.4	8.4	6.4	6.4	5.6	4.6	3.9	5.2	6.4	6.3	6.9	7.8	11.2	15.0	19.4	18.9	15.5	14.5	10.5	11.5	24.9
8-Feb	8.9	8.6	13.9	22.7	35.9	Z	35.0	35.1	34.2	24.0	11.1	9.7	7.1	7.3	8.7	9.1	10.3	9.4	20.9	25.0	26.6	15.4	10.4	10.4	17.4	35.9
9-Feb	Z	13.2	15.4	21.7	16.2	17.3	27.5	29.1	27.1	17.9	8.7	10.2	10.5	9.1	6.4	8.4	10.2	14.9	14.7	17.2	16.8	16.8	16.0	19.7	15.9	29.1
10-Feb	14.7	Z	19.0	20.2	20.7	24.4	37.8	38.3	24.1	6.0	8.3	9.7	12.3	14.2	12.5	7.3	7.0	7.5	7.5	7.2	6.6	6.1	6.1	10.4	14.3	38.3
11-Feb	6.6	7.9	Z	9.8	5.6	2.5	3.7	2.4	1.2	2.6	C	C	C	C	C	C	1.5	8.1	10.5	6.7	9.3	27.4	19.2	21.2	--	27.4
12-Feb	22.8	20.1	13.7	Z	1.0	0.7	0.4	0.5	0.4	0.5	0.6	0.5	0.6	0.6	3.8	14.7	7.2	9.3	6.2	6.4	5.9	0.7	0.6	0.4	5.1	22.8
13-Feb	0.4	0.4	0.5	0.4	Z	0.6	0.4	0.5	0.4	0.4	0.4	M	0.4	0.4	0.4	0.5	0.4	0.4	1.0	12.9	30.2	32.7	31.7	25.5	6.4	32.7
14-Feb	20.8	16.4	2.8	1.1	0.9	Z	0.8	9.4	19.2	28.1	32.0	30.9	26.7	28.9	35.3	39.9	49.7	53.9	39.8	36.1	26.1	27.7	17.3	8.7	24.0	53.9
15-Feb	Z	11.7	8.9	7.8	6.9	6.8	6.4	8.2	7.6	4.6	4.9	5.3	5.6	6.2	6.6	6.8	8.9	9.4	16.0	23.6	28.6	26.6	22.5	21.9	11.4	28.6
16-Feb	20.2	Z	15.6	15.5	15.8	15.0	14.9	13.9	9.5	8.9	25.5	13.6	17.2	16.1	10.4	9.5	7.8	9.2	9.0	10.5	8.7	4.5	9.8	11.1	12.7	25.5
17-Feb	8.9	8.0	Z	6.7	10.2	8.8	9.1	7.8	5.9	4.0	3.0	2.5	2.3	2.0	2.1	1.4	2.1	1.3	1.1	2.6	2.4	2.6	2.7	2.3	4.3	10.2
18-Feb	1.9	0.7	0.9	Z	1.1	0.9	1.0	0.9	1.1	0.8	0.8	1.1	1.2	1.0	1.5	1.7	2.2	1.4	2.9	3.5	3.6	3.6	4.3	4.8	1.9	4.8
19-Feb	4.9	4.5	4.0	4.0	Z	10.3	10.9	9.1	9.6	9.5	6.3	4.0	3.0	3.1	3.6	4.8	7.8	12.4	15.3	15.3	17.7	15.9	19.7	27.6	9.7	27.6
20-Feb	28.9	28.3	29.4	29.0	30.3	Z	30.1	28.2	24.0	17.8	19.4	14.2	11.9	11.5	14.9	25.1	22.4	8.7	14.2	13.6	12.4	13.1	16.0	19.5	20.1	30.3
21-Feb	Z	16.2	19.7	24.5	23.8	24.0	24.7	23.5	18.9	16.7	17.5	16.8	12.3	5.4	3.9	2.9	3.3	3.9	5.0	6.5	3.7	6.5	7.9	7.8	12.8	24.7
22-Feb	9.3	Z	8.9	7.7	6.7	7.1	5.3	7.5	6.2	5.9	6.1	6.4	5.6	7.0	6.2	7.1	9.2	11.8	5.0	13.5	21.2	22.4	22.9	23.6	10.1	23.6
23-Feb	24.5	26.4	Z	24.4	20.8	12.0	12.6	8.6	4.5	8.0	8.1	5.6	4.7	6.2	6.5	6.9	19.0	22.1	22.6	21.3	22.6	26.5	28.3	27.9	16.1	28.3
24-Feb	27.5	28.0	25.1	Z	23.5	25.6	24.7	28.5	25.0	14.7	7.9	3.7	3.6	0.9	2.2	4.9	9.1	12.2	11.7	12.6	13.2	11.3	16.0	16.8	15.2	28.5
25-Feb	24.7	23.7	27.6	25.0	Z	25.6	23.5	23.3	22.3	19.1	19.7	9.8	6.7	4.7	9.3	11.5	16.4	33.9	40.3	25.0	12.8	11.7	10.7	10.9	19.1	40.3
26-Feb	10.4	11.2	14.3	16.2	10.1	Z	10.8	10.6	7.9	6.1	5.3	5.1	3.2	3.3	2.2	2.5	1.1	0.8	0.5	0.6	1.0	1.0	1.5	5.5	5.7	16.2
27-Feb	Z	7.9	7.0	7.4	7.2	9.0	9.5	8.5	8.5	6.3	4.0	3.5	3.7	4.2	5.4	6.9	7.8	12.2	17.3	16.7	16.1	15.7	14.5	13.9	9.3	17.3
28-Feb	14.0	Z	15.7	16.6	16.1	17.2	17.5	22.2	24.3	19.1	12.8	6.9	4.7	7.3	7.9	6.5	7.1	9.0	9.6	11.3	14.6	19.1	30.8	28.7	14.7	30.8
	14.3	13.1	13.6	12.9	14.0	12.3	13.7	14.0	13.1	10.2	10.0	8.8	7.8	7.6	8.0	9.3	10.5	12.2	12.8	13.9	14.7	14.7	14.6	14.9	Diurnal Average	
	36.0	28.3	29.4	29.0	36.9	36.5	37.8	38.3	34.2	29.1	32.0	30.9	26.7	28.9	35.3	39.9	49.7	53.9	40.3	36.1	30.2	32.7	31.7	28.7	Diurnal Maximum	

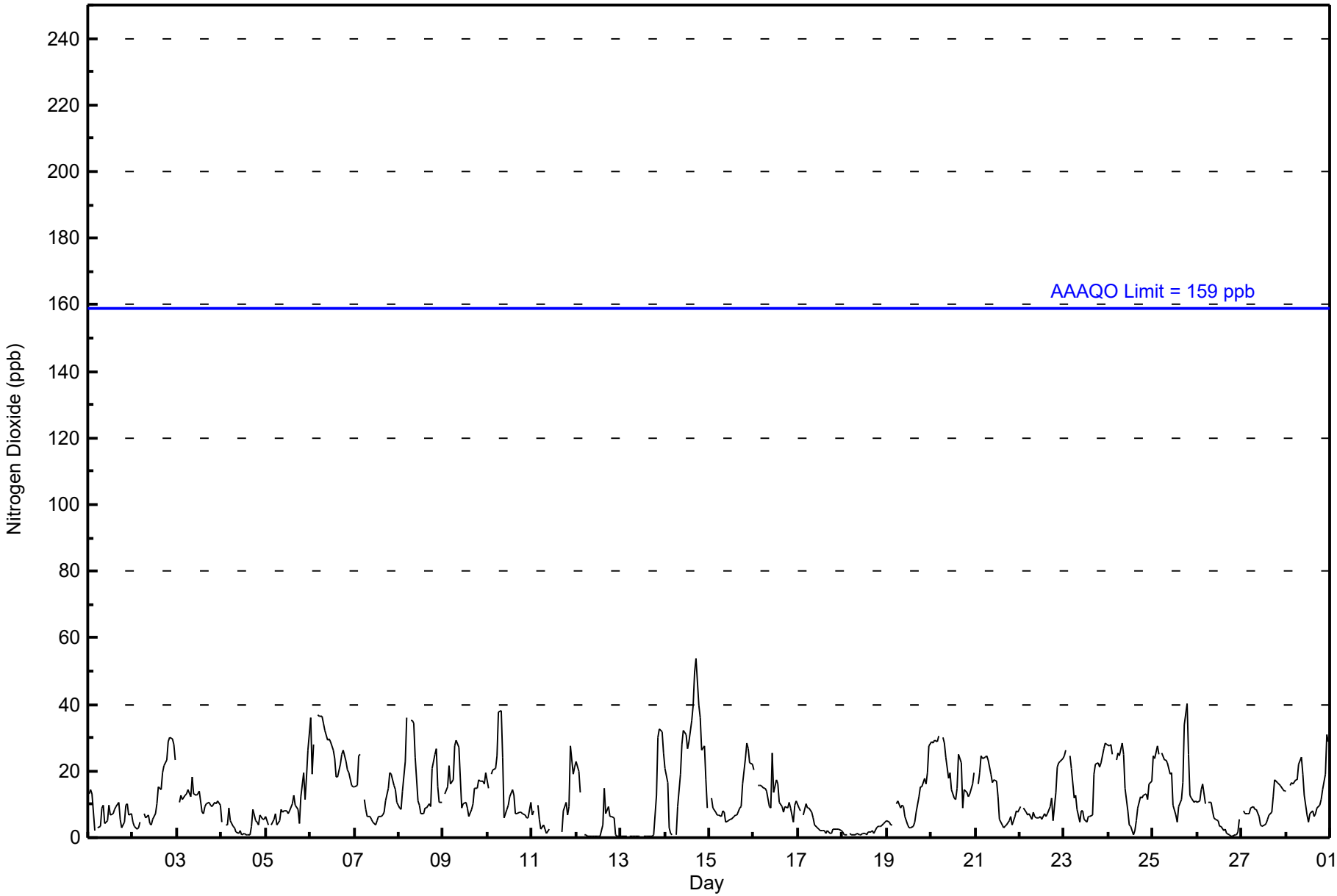
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Ells River - February 2026



Nitrogen Dioxide (NO_2) - ppb
Ells River - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	512	80.38	80.38
21 - 40	123	19.31	99.69
11 - 80	2	0.31	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Ells River - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	114	113	28	7	9	5	22	55	55	40	28	13	9	4	3	7	512
21 - 40	27	20	3	2	1	1	3	11	12	4	2	3	8	6	9	8	120
11 - 80	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	143	133	31	9	10	6	25	66	67	44	30	16	17	10	12	15	634

Total Number of Valid Hours: 634

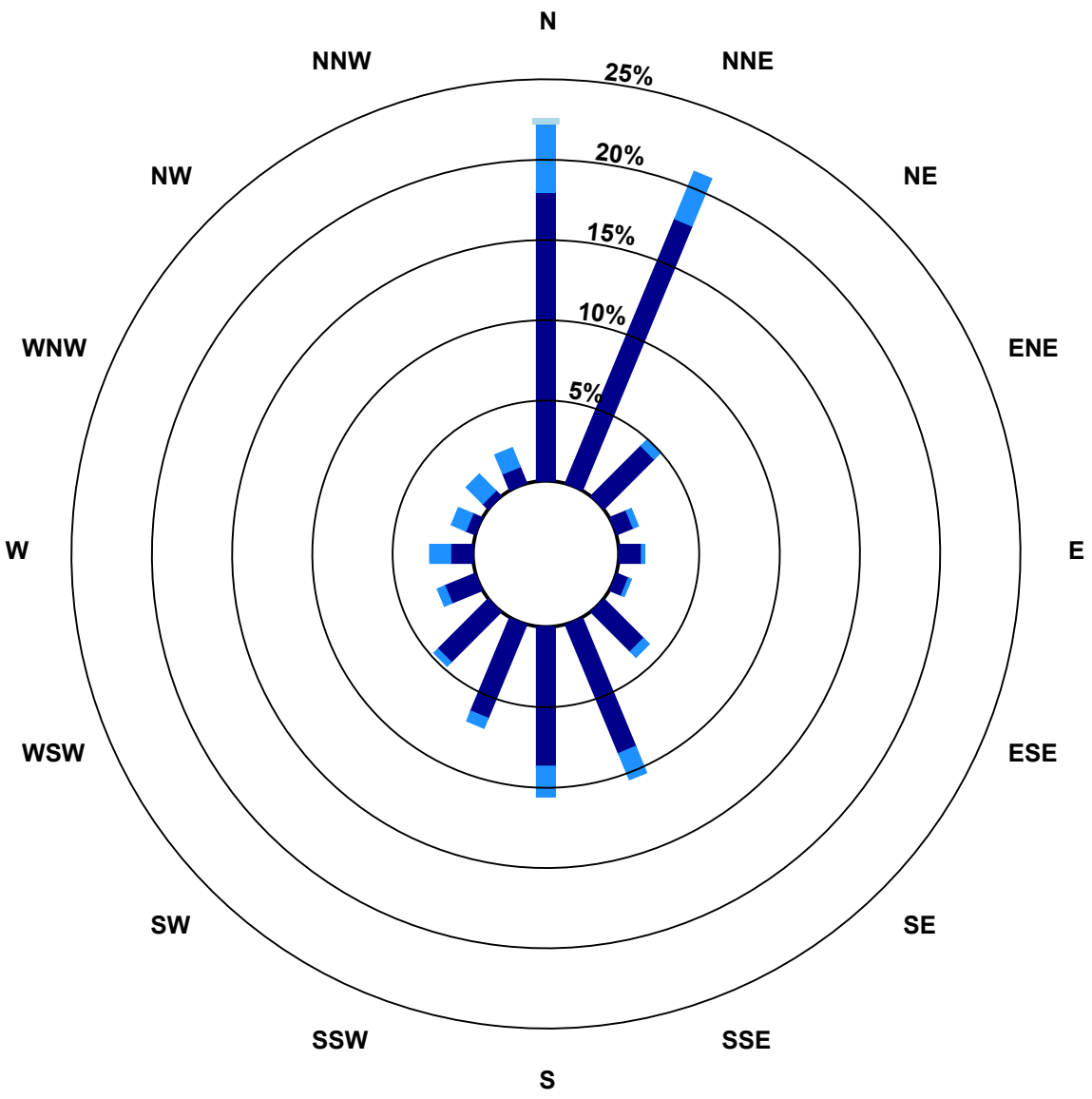
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Ells River



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

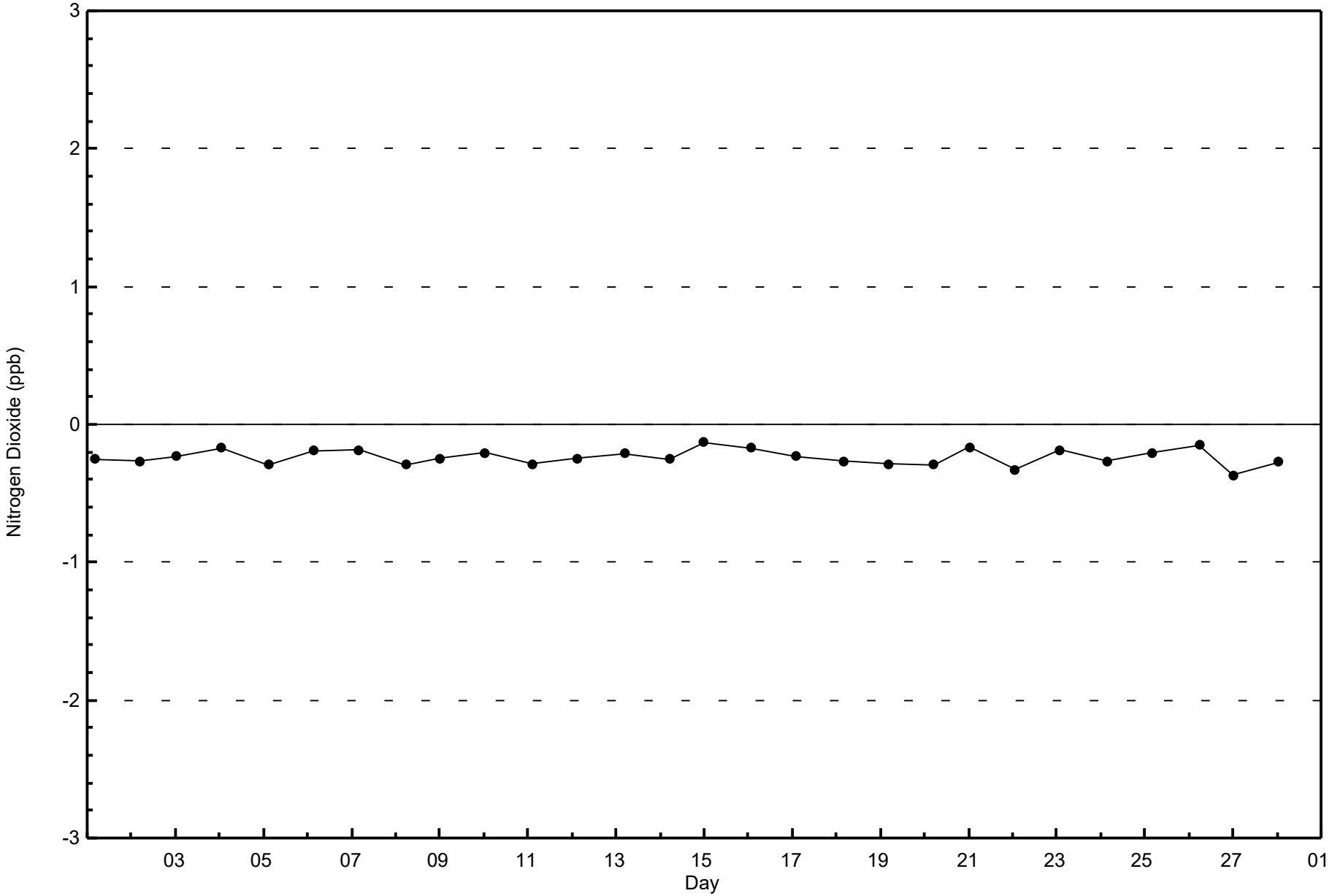
Total Number of Valid Hours: 634

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Ells River - February 2026

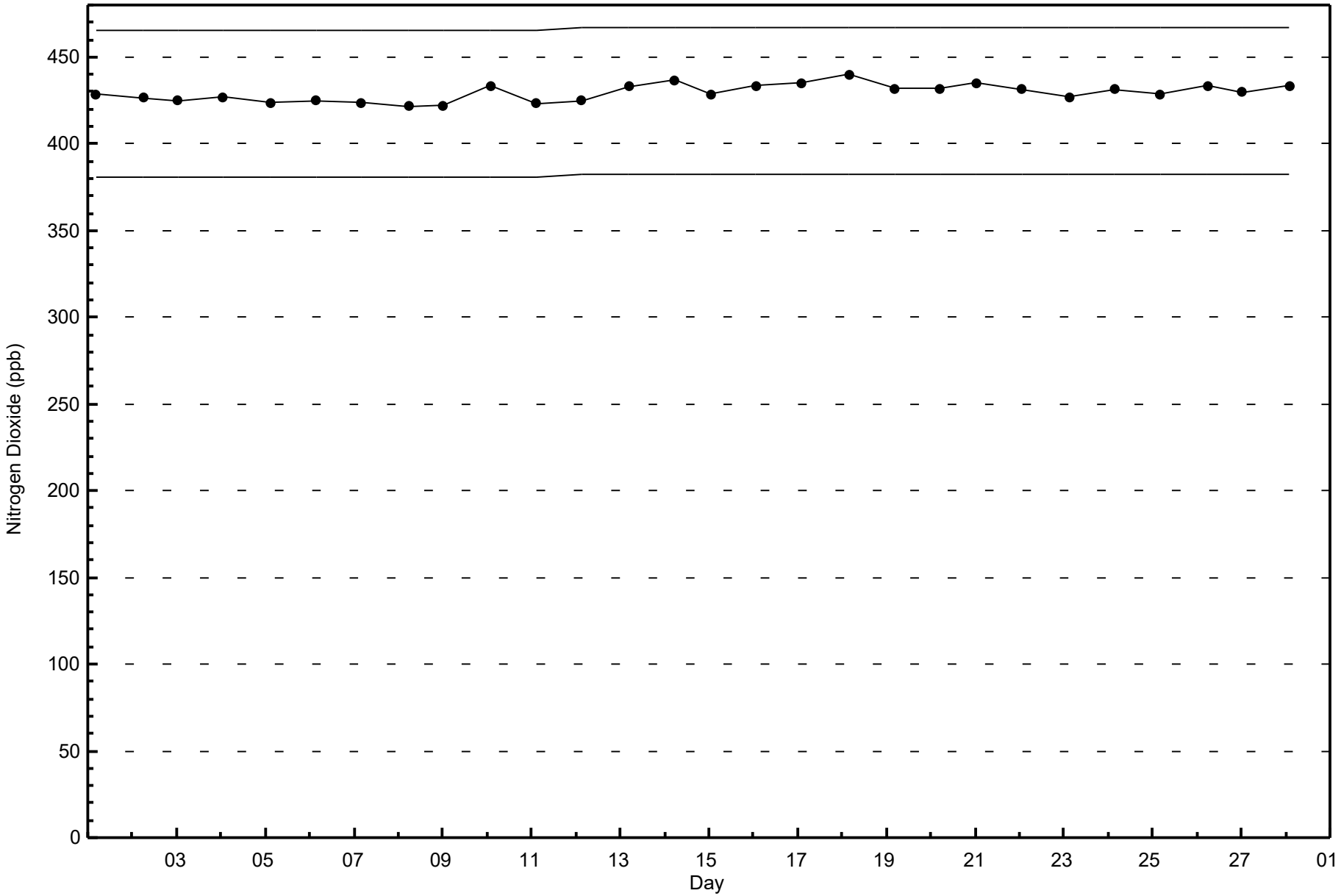


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Ells River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Ells River - February 2026

Maximum Value: 174.4 ppb on Feb 14 18:00

Maximum Daily Average: 57.3 ppb on Feb 14

Minimum Value: 0.4 ppb on Feb 13 04:00

Minimum Daily Average: 3.5 ppb on Feb 18

Maximum Diurnal Average: 25.9 ppb at hour 9

Minimum Diurnal Average: 14.8 ppb at hour 15

Monthly Average: 18.64 ppb

Percentiles: P_1 = 0.5 P_{10} = 2.4 Q_1 = 6.5 Median = 11.4 Q_3 = 22.9 P_{90} = 43.7 P_{99} = 107.4

Hours in Service:	672
Hours of Data:	637
Hours of Missing Data:	35
Hours of Calibration:	34
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	13.2	14.5	13.1	2.2	Z	2.8	3.5	9.1	11.0	4.7	5.9	12.3	8.9	9.8	10.7	10.9	11.3	5.5	3.0	4.6	9.7	10.0	7.0	7.4	8.3	14.5
2-Feb	4.6	3.2	2.7	3.0	4.5	Z	7.3	5.9	7.5	5.1	4.6	6.6	9.7	14.6	23.0	19.1	24.6	22.9	37.8	68.9	66.3	53.0	36.9	24.6	19.8	68.9
3-Feb	Z	10.8	12.9	11.6	12.9	13.2	14.5	12.4	19.5	14.9	16.5	17.5	20.5	10.2	8.9	11.0	10.6	10.7	9.9	9.4	10.4	10.1	11.1	9.9	12.6	20.5
4-Feb	4.8	Z	3.9	3.9	8.9	5.0	3.6	3.3	1.8	1.8	2.9	1.2	1.2	1.1	0.9	0.8	3.7	8.7	5.0	4.7	3.9	6.9	5.4	5.7	3.9	8.9
5-Feb	6.3	3.9	Z	3.8	5.3	7.3	3.9	5.0	8.6	8.7	10.2	11.0	10.0	11.4	13.5	15.5	10.4	8.4	4.1	12.4	19.8	11.3	18.5	27.0	10.3	27.0
6-Feb	42.1	19.1	28.3	Z	69.8	59.1	60.8	45.8	46.2	47.4	58.7	57.4	48.8	44.2	22.3	22.1	24.9	27.2	27.5	22.9	21.1	19.8	15.8	15.3	36.8	69.8
7-Feb	15.2	16.1	57.5	40.7	Z	11.4	8.5	6.5	6.6	6.3	5.7	5.2	6.9	8.2	8.1	7.9	8.3	11.3	15.1	19.5	19.0	15.6	14.6	10.6	14.1	57.5
8-Feb	8.9	8.6	13.9	29.3	90.7	Z	93.0	93.9	85.8	46.6	14.1	13.4	10.1	10.2	11.5	11.1	11.5	9.5	21.1	25.4	27.1	15.5	10.4	10.5	29.2	93.9
9-Feb	Z	13.3	15.6	22.8	16.3	17.4	28.6	33.7	35.2	25.3	11.3	14.5	16.3	13.6	8.5	10.4	11.3	15.2	14.8	17.3	16.9	16.9	16.1	19.8	17.9	35.2
10-Feb	14.8	Z	19.1	20.3	20.8	24.6	52.0	55.0	27.8	6.9	11.2	13.0	18.8	24.4	21.6	10.3	8.1	7.6	7.6	7.4	6.6	6.2	6.2	11.0	17.5	55.0
11-Feb	6.7	8.0	Z	9.9	5.7	2.5	3.8	2.6	1.3	3.2	C	C	C	C	C	C	2.0	9.0	10.8	7.7	14.0	47.4	19.5	23.6	--	47.4
12-Feb	29.8	32.9	18.5	Z	1.1	0.7	0.4	0.5	0.4	0.5	0.6	0.6	0.7	0.7	4.4	17.4	7.6	9.7	6.3	6.4	6.0	0.7	0.6	0.4	6.4	32.9
13-Feb	0.4	0.4	0.6	0.4	Z	0.6	0.5	0.7	0.5	0.5	0.5	M	0.5	0.5	0.5	0.7	0.5	0.5	1.4	13.2	31.8	51.7	52.1	32.8	8.7	52.1
14-Feb	21.8	21.3	2.8	1.1	0.9	Z	0.9	11.4	33.8	90.5	127.5	118.6	77.2	76.1	99.6	111.7	140.9	174.4	79.7	44.4	26.9	28.2	18.4	9.0	57.3	174.4
15-Feb	Z	11.8	9.0	7.9	7.0	6.9	6.5	8.4	8.2	5.5	6.6	8.7	10.5	12.3	12.2	11.0	11.8	9.9	16.2	25.9	34.9	31.9	25.0	25.0	13.6	34.9
16-Feb	20.9	Z	15.8	15.9	16.5	17.0	15.2	14.7	14.3	23.6	115.5	37.8	50.9	48.3	27.6	20.7	11.9	10.6	9.2	10.8	8.9	4.7	10.0	11.5	23.1	115.5
17-Feb	9.2	8.2	Z	6.9	10.7	9.2	9.6	8.4	7.3	6.0	5.0	4.1	3.7	3.0	2.8	1.7	2.2	1.3	1.1	2.6	2.4	2.7	2.9	3.1	5.0	10.7
18-Feb	3.2	1.3	2.2	Z	2.8	1.9	2.3	1.9	2.9	2.2	2.1	3.5	4.3	3.2	4.5	4.6	4.6	2.3	3.8	4.7	4.0	5.1	8.0	5.0	3.5	8.0
19-Feb	9.3	4.6	4.1	4.1	Z	43.5	57.5	33.2	62.3	64.3	28.5	16.2	9.3	7.9	7.6	8.4	11.6	14.2	15.3	15.7	18.6	16.2	19.8	31.2	21.9	64.3
20-Feb	35.1	32.0	36.1	37.0	44.8	Z	59.2	55.3	45.4	33.3	45.3	32.5	24.9	24.4	29.7	49.4	35.4	9.2	14.2	13.7	12.5	13.2	16.2	20.0	31.3	59.2
21-Feb	Z	16.4	21.3	28.5	28.0	30.1	39.6	35.6	27.8	31.7	40.1	39.8	25.7	8.9	6.0	3.9	3.9	4.0	5.0	6.5	3.7	6.7	8.3	8.4	18.7	40.1
22-Feb	10.6	Z	9.8	8.8	8.1	10.2	6.9	14.7	14.6	18.0	19.5	20.3	16.6	19.7	15.6	15.4	16.5	15.3	5.1	15.0	32.7	37.0	43.6	47.4	18.3	47.4
23-Feb	53.1	54.1	Z	43.7	23.9	12.0	12.7	8.9	5.2	12.0	14.2	10.8	9.0	10.4	10.3	10.7	31.7	25.8	24.6	21.4	23.1	33.4	35.3	34.3	22.6	54.1
24-Feb	35.6	36.9	33.9	Z	32.5	43.7	49.1	91.2	71.1	38.9	18.9	8.2	7.9	1.2	3.5	7.4	12.8	12.8	11.7	13.1	15.4	13.4	21.8	21.2	26.2	91.2
25-Feb	42.2	39.5	46.8	50.2	Z	50.4	40.9	36.5	43.3	37.6	42.1	18.2	11.4	6.7	13.6	14.9	20.8	53.1	77.4	30.7	12.9	11.8	10.9	11.0	31.4	77.4
26-Feb	10.5	11.3	14.5	16.4	10.3	Z	11.0	10.9	8.6	7.1	6.6	6.9	4.4	4.8	3.2	3.2	1.2	0.8	0.5	0.6	1.0	1.0	1.5	5.5	6.2	16.4
27-Feb	Z	7.9	7.0	7.4	7.2	9.1	9.6	9.1	12.8	12.6	9.9	9.3	10.4	11.8	14.3	17.5	16.1	20.0	24.5	23.1	22.6	26.3	25.3	20.9	14.5	26.3
28-Feb	20.8	Z	23.8	24.3	22.2	21.1	30.5	84.2	114.2	73.7	38.3	16.5	9.6	15.9	15.5	11.4	9.6	9.9	9.7	11.4	14.6	19.3	49.5	44.0	30.0	114.2
	18.2	16.4	17.2	16.7	19.6	17.4	22.6	25.0	25.9	22.5	24.5	19.4	15.9	14.9	14.8	15.9	16.6	18.2	16.5	16.4	17.4	18.4	18.2	17.7	Diurnal Average	
	53.1	54.1	57.5	50.2	90.7	59.1	93.0	93.9	114.2	90.5	127.5	118.6	77.2	76.1	99.6	111.7	140.9	174.4	79.7	68.9	66.3	53.0	52.1	47.4	Diurnal Maximum	

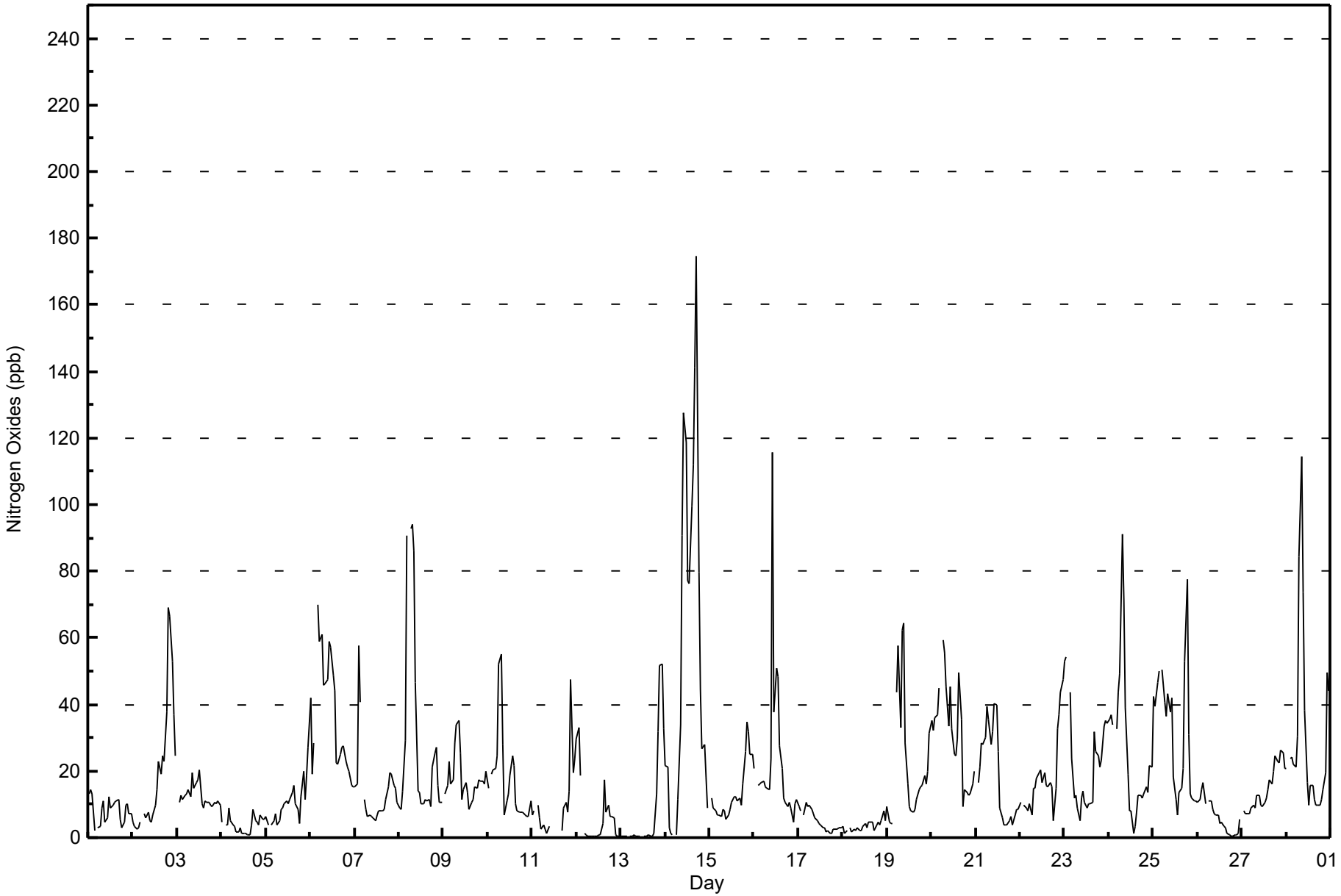
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Ells River - February 2026



Nitrogen Oxides (NO_X) - ppb

Ells River - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	455	71.43	71.43
21 - 40	109	17.11	88.54
11 - 80	58	9.11	97.65
81 - 159	14	2.20	99.84
> 159	1	0.16	100.00

Total Number of Valid Hours: 637

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Ells River - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	109	106	27	7	9	4	20	48	42	34	27	11	3	3	1	4	455
21 - 40	14	17	4	2	1	2	3	8	18	6	2	5	10	6	6	3	107
11 - 80	15	8	0	0	0	0	2	9	5	4	1	0	4	1	2	6	57
81 - 159	4	2	0	0	0	0	0	1	2	0	0	0	0	0	3	2	14
> 159	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Totals	143	133	31	9	10	6	25	66	67	44	30	16	17	10	12	15	634

Total Number of Valid Hours: 634

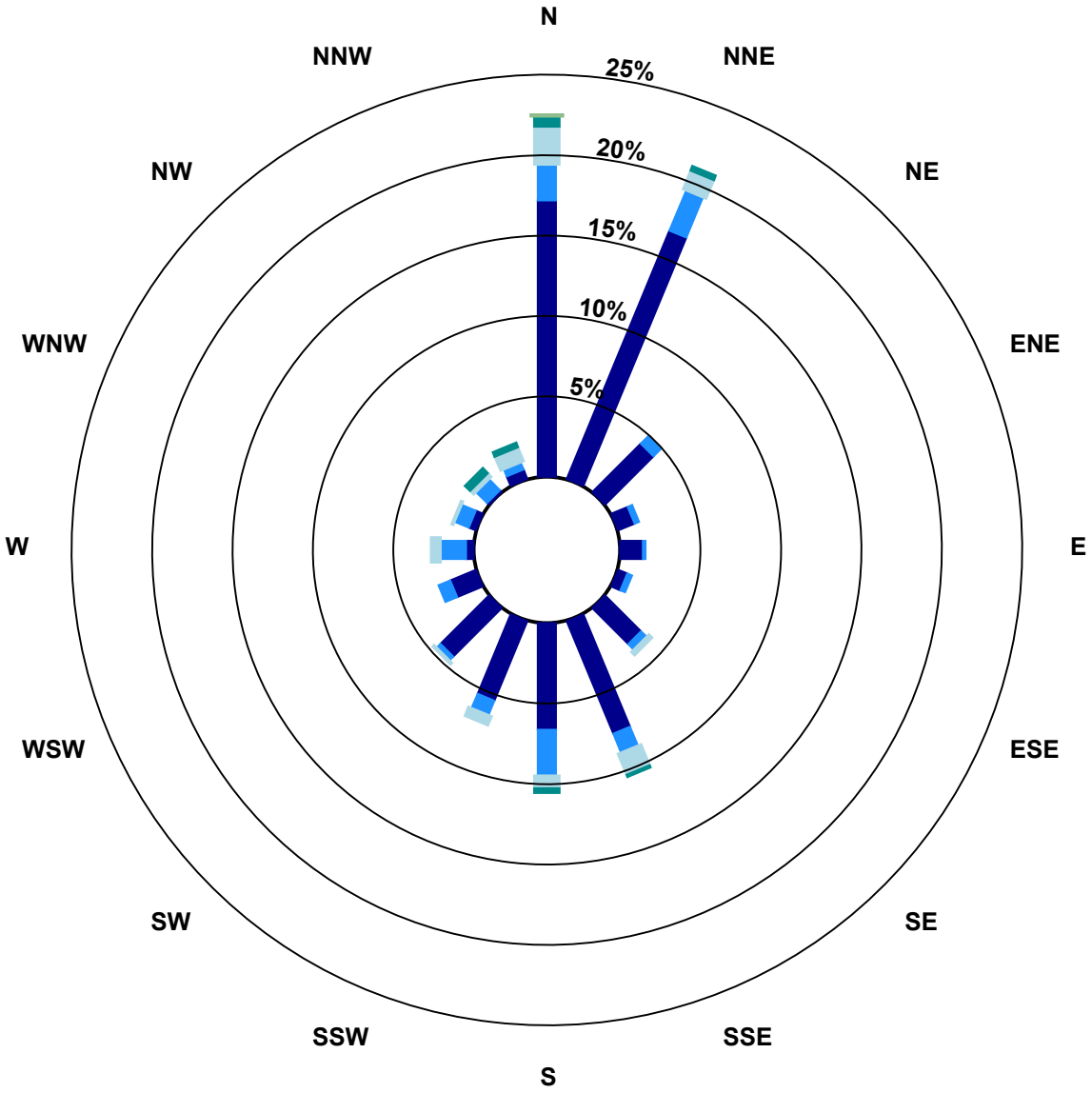
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Ells River



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

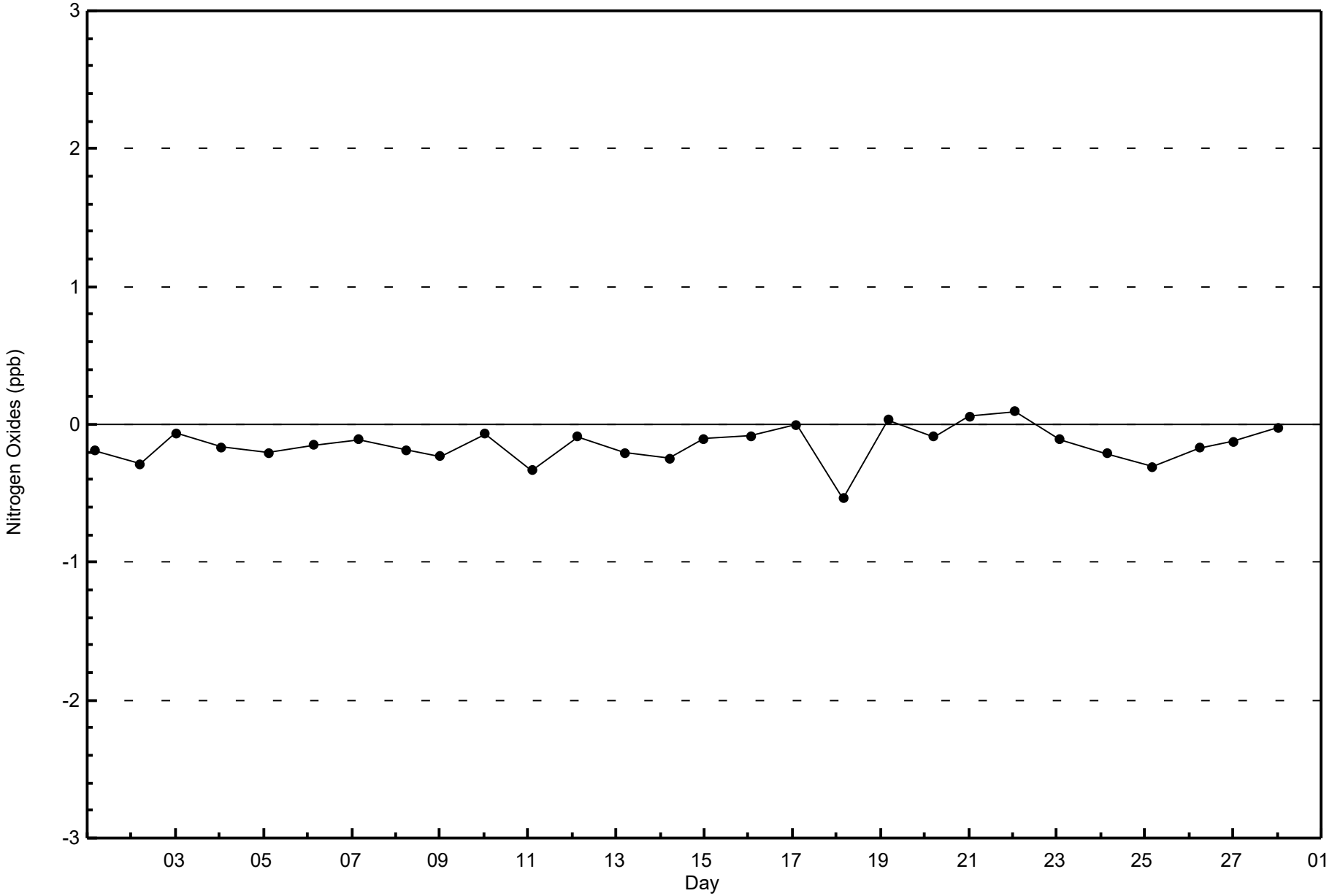
Total Number of Valid Hours: 634

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Ells River - February 2026

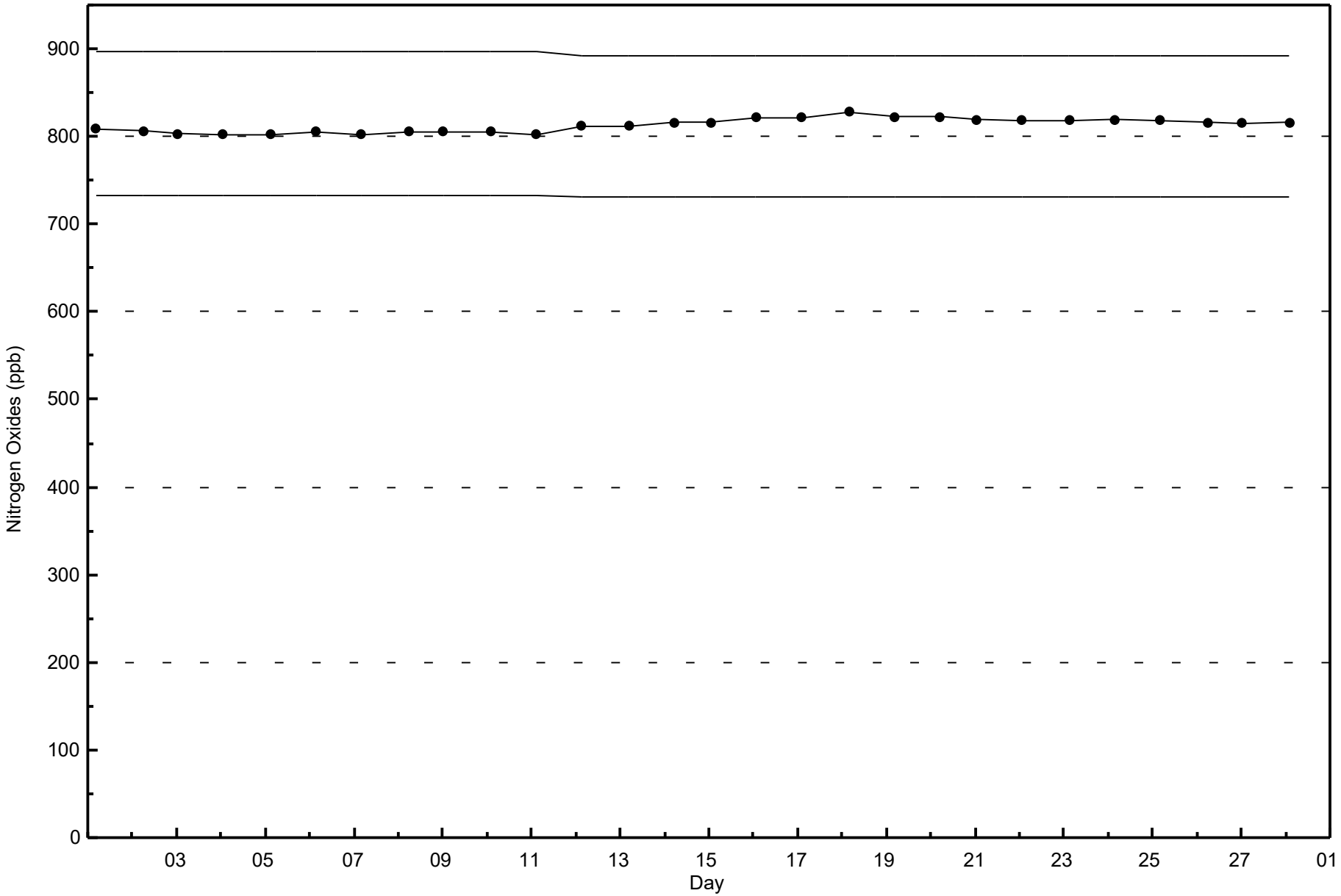


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Ells River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Ells River - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 23.5 $\mu g/m^3$ on Feb 16 11:00

Maximum Daily Average: 9.2 $\mu g/m^3$ on Feb 16

Minimum Value: 1.1 $\mu g/m^3$ on Feb 12 11:00

Minimum Daily Average: 2.1 $\mu g/m^3$ on Feb 12

Maximum Diurnal Average: 5.2 $\mu g/m^3$ at hour 18

Minimum Diurnal Average: 4.3 $\mu g/m^3$ at hour 3

Monthly Average: 4.73 $\mu g/m^3$

Percentiles: P_1 = 1.3 P_{10} = 2.4 Q_1 = 3.2 Median = 4.1 Q_3 = 5.7 P_{90} = 7.4 P_{99} = 13.3

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	1
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	3.3	3.2	2.8	2.5	2.3	2.3	2.5	3.6	4.3	3.6	3.6	3.8	3.2	3.4	3.4	3.3	3.8	3.4	2.7	3.0	3.0	2.9	2.6	3.5	3.2	4.3
2-Feb	3.9	2.3	2.5	2.6	2.6	2.6	3.9	3.7	3.5	2.9	3.7	4.0	4.4	4.8	5.2	4.7	5.3	5.4	5.4	6.3	6.7	7.4	7.1	7.2	4.5	7.4
3-Feb	7.5	5.2	5.3	5.1	4.9	5.0	4.5	3.9	3.9	3.6	3.6	3.7	4.1	3.9	4.1	5.3	5.0	4.2	4.1	4.6	5.0	5.5	5.6	5.7	4.7	7.5
4-Feb	6.2	5.8	5.6	6.1	6.7	7.7	8.6	6.9	5.2	3.8	3.2	2.5	2.1	1.9	1.6	1.3	1.5	3.6	4.1	4.1	4.0	3.9	3.6	3.1	4.3	8.6
5-Feb	3.2	2.9	2.7	2.1	2.0	2.2	2.0	2.0	2.1	2.0	2.2	2.2	2.6	3.0	2.8	3.0	2.9	2.9	2.6	2.9	3.2	3.2	3.6	4.1	2.7	4.1
6-Feb	4.9	5.0	5.4	6.9	6.6	6.2	6.3	6.9	7.0	6.8	6.6	5.9	5.2	5.2	4.5	4.8	5.5	5.3	5.3	5.5	5.0	4.7	4.4	4.5	5.6	7.0
7-Feb	4.7	4.7	5.3	6.0	4.6	3.0	2.9	3.4	3.5	3.3	2.8	2.7	2.7	2.7	2.7	2.9	2.9	3.6	4.2	4.2	4.2	3.8	3.6	3.6	3.7	6.0
8-Feb	3.6	3.6	3.8	4.1	6.8	8.6	7.9	7.5	7.1	5.3	3.8	3.7	3.6	3.4	3.4	3.5	3.9	4.1	4.6	4.6	4.6	4.6	4.6	4.7	4.8	8.6
9-Feb	4.8	4.6	4.9	5.1	4.8	4.8	5.5	6.3	6.0	6.0	5.0	4.9	4.4	3.9	3.7	3.4	3.4	3.5	3.4	3.4	3.5	3.9	3.8	3.7	4.4	6.3
10-Feb	3.3	3.0	3.4	4.0	4.7	5.7	6.6	9.0	9.6	9.6	8.0	8.6	9.0	8.7	7.9	7.4	7.1	7.1	7.3	7.3	7.2	7.1	7.0	7.4	6.9	9.6
11-Feb	7.8	8.0	7.4	6.7	5.1	4.3	4.1	3.9	3.7	3.7	3.5	3.9	3.7	2.6	2.3	2.1	1.9	2.4	2.7	2.6	2.7	4.8	4.7	4.7	4.1	8.0
12-Feb	4.7	4.6	3.2	2.5	2.6	2.5	2.3	2.1	1.7	1.3	1.1	1.1	2.0	1.6	1.2	2.5	2.0	1.4	1.1	1.5	1.5	1.8	1.7	1.3	2.1	4.7
13-Feb	1.1	1.3	1.5	1.9	2.0	2.2	2.4	2.5	2.5	2.5	2.5	C	2.4	2.3	2.2	1.9	2.1	2.2	2.4	2.8	3.4	3.9	3.9	3.5	2.4	3.9
14-Feb	3.5	3.0	2.6	2.5	2.9	4.1	4.1	4.1	5.4	7.3	8.8	10.2	12.3	13.6	12.3	12.9	17.8	23.3	18.2	12.8	8.2	8.9	7.4	5.0	8.8	23.3
15-Feb	6.8	5.6	5.4	6.0	4.7	4.3	3.8	5.0	5.5	3.7	3.7	4.8	5.4	5.6	6.4	6.8	7.8	7.4	10.8	12.4	13.2	12.4	8.9	9.4	6.9	13.2
16-Feb	8.4	6.6	6.7	6.8	8.4	6.8	6.7	7.5	6.5	9.5	23.5	9.4	14.7	15.0	11.3	12.9	8.3	8.0	6.9	5.6	8.2	5.5	8.0	9.0	9.2	23.5
17-Feb	9.2	7.4	6.3	6.5	6.1	5.9	5.0	4.5	4.7	5.3	8.1	11.4	7.4	6.4	6.8	5.5	6.4	5.8	4.5	4.7	4.9	4.6	3.9	4.1	6.1	11.4
18-Feb	4.2	3.3	3.2	3.7	3.5	3.1	3.2	3.1	3.0	3.1	3.0	3.1	3.4	3.2	2.8	2.7	2.5	2.1	2.2	2.2	2.0	1.9	2.1	2.3	2.9	4.2
19-Feb	2.0	2.1	2.1	2.1	4.4	4.2	4.3	3.4	4.7	4.7	3.5	3.7	4.2	4.1	3.8	3.5	3.5	3.8	3.8	4.0	4.3	3.5	3.6	3.9	3.6	4.7
20-Feb	3.9	3.7	3.7	3.6	3.9	4.3	4.3	3.6	4.2	6.0	5.6	4.7	6.0	6.8	7.2	11.0	8.3	3.5	3.4	4.8	4.9	4.7	4.7	4.3	5.0	11.0
21-Feb	4.3	4.1	4.2	4.7	4.2	4.2	4.7	4.8	4.7	5.7	6.6	5.4	4.5	3.6	3.6	3.8	3.8	3.6	3.9	4.2	4.2	3.8	4.3	4.1	4.4	6.6
22-Feb	4.1	4.8	4.7	4.5	3.9	4.0	3.9	4.0	4.1	4.1	4.2	4.4	4.2	3.9	3.5	3.5	3.4	3.3	2.8	3.1	3.6	3.9	4.0	4.0	3.9	4.8
23-Feb	3.9	4.0	3.7	3.5	3.1	2.9	3.0	2.9	2.6	2.8	2.9	2.8	2.7	3.0	3.2	3.5	5.1	7.0	6.8	6.2	6.1	6.2	6.0	6.5	4.2	7.0
24-Feb	6.0	5.9	5.0	4.8	4.5	5.4	6.1	7.0	7.1	4.8	3.8	3.5	3.9	3.2	3.9	5.2	6.6	6.5	6.5	6.1	5.6	5.3	5.6	6.0	5.4	7.1
25-Feb	7.3	7.0	7.7	7.5	7.1	6.8	6.3	6.0	7.0	7.4	8.5	7.1	7.3	6.4	7.4	7.4	6.8	10.7	12.7	7.8	4.3	4.5	4.3	4.3	7.1	12.7
26-Feb	4.0	4.2	4.4	4.4	4.5	4.3	3.8	3.4	3.4	3.6	3.5	3.6	3.5	3.8	3.7	3.5	2.8	2.7	2.2	2.2	2.0	1.9	2.0	2.5	3.3	4.5
27-Feb	2.8	2.8	2.9	2.9	2.8	3.0	3.1	3.0	3.0	2.9	2.9	3.5	4.4	4.3	3.7	3.9	3.7	3.6	3.7	3.5	3.0	2.9	3.2	2.9	3.3	4.4
28-Feb	3.1	2.8	3.3	3.7	3.6	3.6	3.5	5.8	8.3	7.7	6.1	5.0	7.0	7.4	5.1	4.8	4.5	4.3	4.1	4.0	4.6	4.9	5.8	5.5	4.9	8.3
	4.7	4.3	4.3	4.4	4.4	4.4	4.5	4.6	4.8	4.8	5.1	4.8	5.0	4.9	4.6	4.9	5.0	5.2	5.1	4.9	4.8	4.7	4.7	4.7	Diurnal Average	
	9.2	8.0	7.7	7.5	8.4	8.6	8.6	9.0	9.6	9.6	23.5	11.4	14.7	15.0	12.3	12.9	17.8	23.3	18.2	12.8	13.2	12.4	8.9	9.4	Diurnal Maximum	

C - Calibration

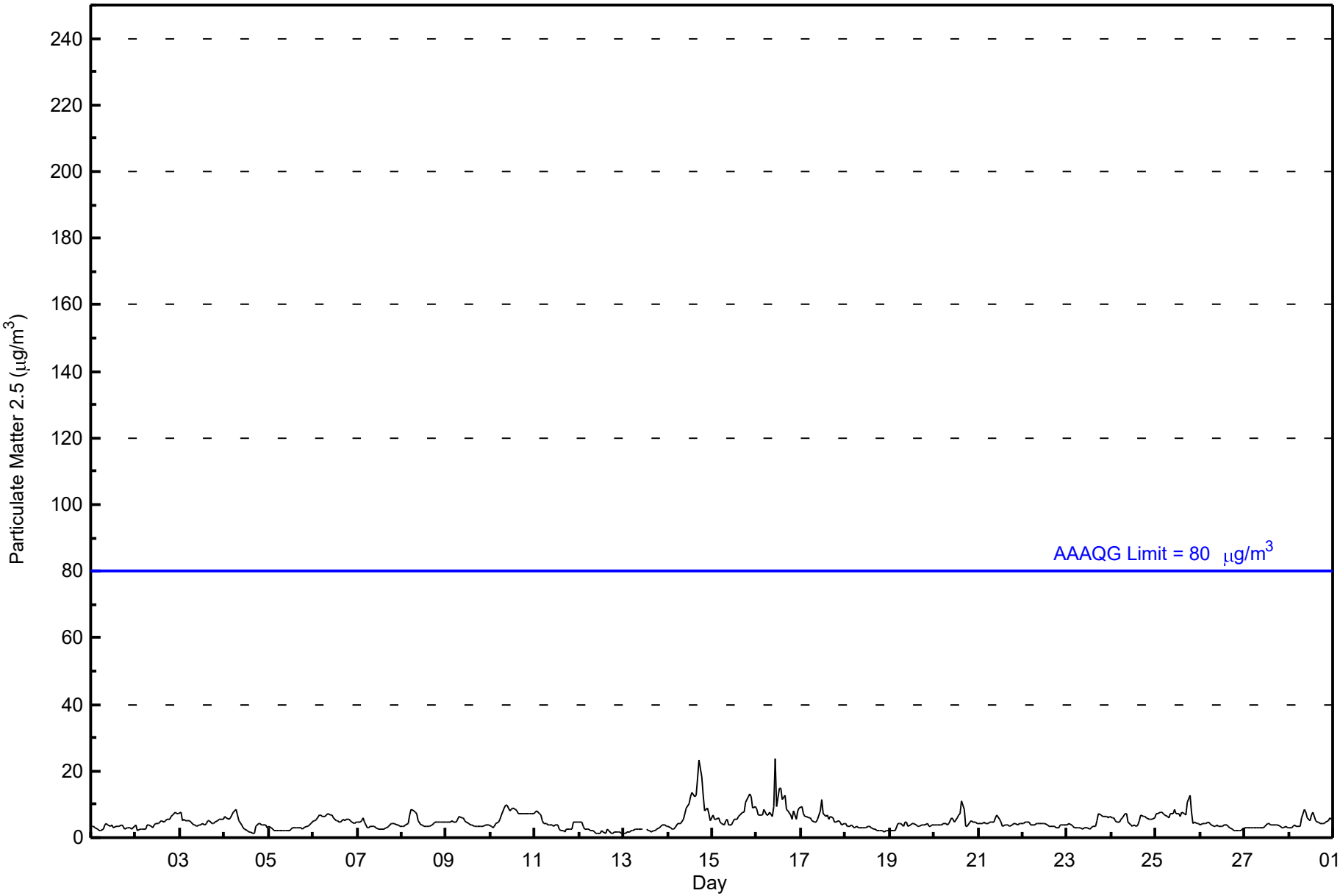
Alberta Ambient Air Quality Guideline/Objectives: 1-hr 80 $\mu g/m^3$ 24-hr 29 $\mu g/m^3$

Wood Buffalo Environmental Association

Hourly Averages

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Ells River - February 2026



Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Ells River - February 2026

Concentration Ranges ($\mu g/m^3$)	Number of Hours	%	Cumulative %
0 - 5	491	73.17	73.17
6 - 15	176	26.23	99.40
16 - 25	4	0.60	100.00
26 - 80	0	0.00	100.00
> 81.0	0	0.00	100.00

Total Number of Valid Hours: 671

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Ells River - February 2026

Concentration Ranges ($\mu g/m^3$)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	107	104	28	9	9	6	23	54	57	34	21	11	8	7	3	10	491
6 - 15	40	35	3	0	1	0	3	19	15	14	10	5	10	4	9	5	173
16 - 25	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4
26 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	150	139	31	9	10	6	26	73	72	48	31	16	18	11	12	16	668

Total Number of Valid Hours: 668

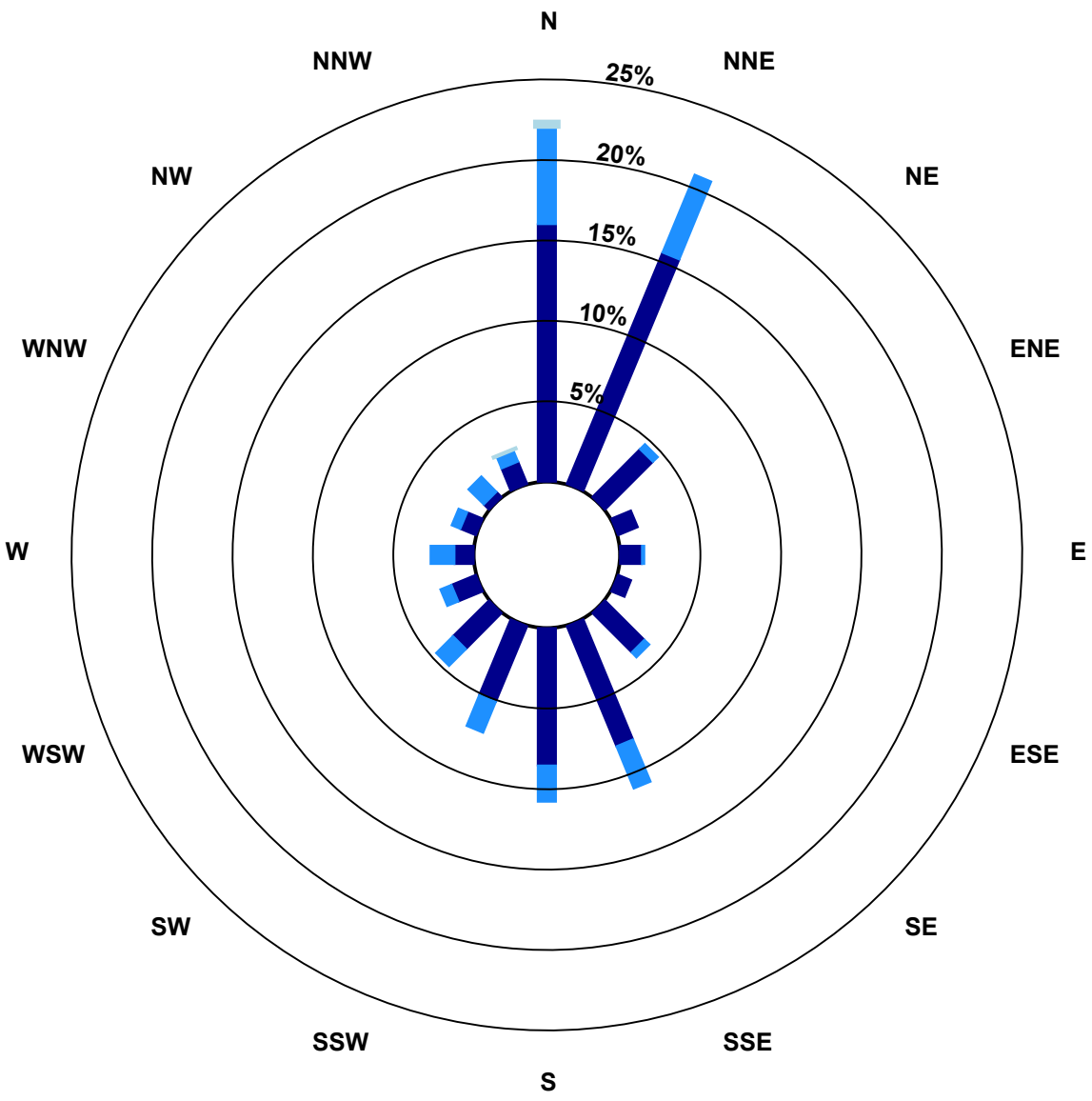
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Particulate Matter 2.5 ($PM_{2.5}$) - $\mu g/m^3$

Ells River



Classes ($\mu g/m^3$)

0 - 5

6 - 15

16 - 25

26 - 80

> 81.0

Total Number of Valid Hours: 668

Maximum Value: 11.0 C on Feb 4 16:00

Maximum Daily Average: 0.6 C on Feb 13

Minimum Value: -39.7 C on Feb 28 07:00

Minimum Daily Average: -30.9 C on Feb 18

Maximum Diurnal Average: -11.9 C at hour 16

Minimum Diurnal Average: -18.6 C at hour 8

Monthly Average: -15.81 C

Percentiles: P_1 = -37.7 P_{10} = -29.0 Q_1 = -23.3 Median = -15.2 Q_3 = -9.2 P_{90} = -3.4 P_{99} = 5.7

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

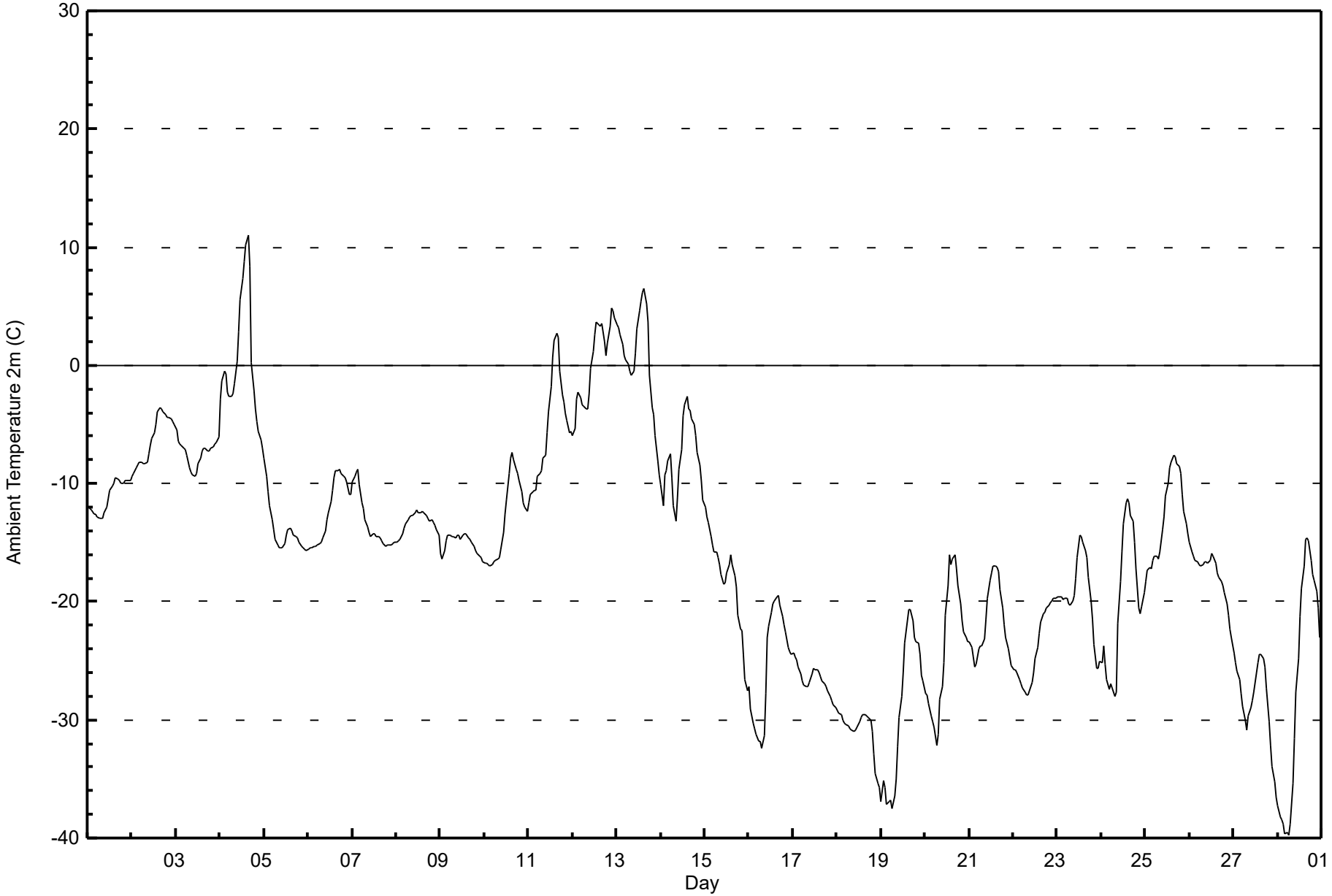
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.0	-12.1	-12.3	-12.6	-12.6	-12.8	-12.9	-12.9	-12.9	-12.5	-12.1	-11.2	-10.6	-10.2	-10.0	-9.6	-9.6	-9.8	-10.0	-10.0	-9.8	-9.8	-9.8	-9.7	-11.2	-9.6
2-Feb	-9.4	-9.1	-8.7	-8.4	-8.2	-8.2	-8.3	-8.3	-8.2	-7.5	-6.8	-6.2	-5.7	-4.9	-4.0	-3.6	-3.7	-4.0	-4.2	-4.4	-4.4	-4.6	-4.8	-5.0	-6.3	-3.6
3-Feb	-5.5	-6.4	-6.6	-6.8	-7.0	-7.1	-7.6	-8.6	-9.0	-9.3	-9.4	-9.1	-8.3	-7.8	-7.3	-7.1	-7.0	-7.2	-7.2	-7.0	-6.9	-6.6	-6.5	-6.0	-7.4	-5.5
4-Feb	-2.8	-1.3	-0.5	-0.7	-2.3	-2.6	-2.6	-2.4	-1.5	0.4	2.8	5.5	7.4	8.8	10.2	11.0	8.4	0.3	-2.1	-3.7	-4.7	-5.6	-6.3	-7.0	0.4	11.0
5-Feb	-7.9	-9.4	-10.7	-11.9	-13.1	-13.9	-14.7	-15.2	-15.4	-15.5	-15.5	-15.0	-14.4	-13.9	-13.8	-14.0	-14.3	-14.5	-14.6	-15.0	-15.3	-15.5	-15.5	-15.6	-13.9	-7.9
6-Feb	-15.6	-15.5	-15.5	-15.4	-15.3	-15.2	-15.1	-15.0	-14.7	-14.1	-13.0	-12.4	-11.5	-10.6	-9.5	-8.9	-8.9	-8.8	-9.2	-9.4	-9.5	-9.9	-11.0	-11.0	-12.3	-8.8
7-Feb	-9.9	-9.4	-9.0	-8.9	-10.1	-11.6	-12.1	-13.1	-13.7	-14.1	-14.4	-14.2	-14.2	-14.5	-14.5	-14.6	-14.9	-15.1	-15.3	-15.2	-15.2	-15.2	-15.1	-15.0	-13.3	-8.9
8-Feb	-14.9	-14.9	-14.7	-14.2	-13.8	-13.4	-13.1	-12.9	-12.7	-12.7	-12.5	-12.2	-12.4	-12.4	-12.4	-12.5	-12.7	-12.9	-13.2	-13.1	-13.3	-13.5	-13.9	-14.4	-13.3	-12.2
9-Feb	-15.9	-16.3	-15.7	-14.9	-14.4	-14.4	-14.5	-14.5	-14.6	-14.4	-14.4	-14.7	-14.4	-14.2	-14.3	-14.6	-14.7	-14.9	-15.4	-15.7	-15.9	-16.1	-16.3	-16.6	-15.1	-14.2
10-Feb	-16.7	-16.8	-16.9	-17.0	-16.8	-16.6	-16.5	-16.4	-16.2	-15.6	-14.2	-12.6	-11.4	-9.2	-7.9	-7.4	-8.0	-8.8	-9.1	-9.7	-10.7	-11.6	-12.0	-12.3	-12.9	-7.4
11-Feb	-11.6	-10.9	-10.7	-10.6	-10.6	-9.3	-9.1	-8.9	-7.8	-7.6	-5.7	-3.9	-1.8	0.6	2.1	2.7	2.3	-0.5	-2.5	-3.1	-4.0	-4.6	-5.7	-5.6	-5.3	2.7
12-Feb	-6.0	-5.4	-2.9	-2.3	-2.8	-3.3	-3.4	-3.7	-3.7	-2.3	-0.3	1.1	2.6	3.7	3.4	3.3	3.5	2.0	0.8	1.9	3.3	4.8	4.6	4.0	0.1	4.8
13-Feb	3.5	3.1	2.6	1.8	0.8	0.5	0.1	-0.5	-0.9	-0.5	1.0	3.1	4.6	5.4	6.1	6.5	5.2	3.6	-0.8	-3.6	-4.1	-5.9	-8.1	-9.3	0.6	6.5
14-Feb	-10.1	-11.8	-9.2	-8.9	-8.1	-7.5	-9.5	-11.9	-13.1	-11.2	-8.8	-7.2	-4.3	-3.3	-2.7	-3.7	-3.8	-4.6	-5.0	-6.0	-7.3	-8.5	-9.8	-11.4	-7.8	-2.7
15-Feb	-12.0	-12.8	-13.3	-14.4	-15.2	-15.7	-15.8	-16.2	-16.8	-17.7	-18.6	-18.4	-17.6	-16.9	-16.0	-16.8	-17.8	-18.7	-21.1	-22.3	-22.5	-24.4	-26.6	-27.6	-18.1	-12.0
16-Feb	-27.2	-29.1	-30.2	-30.7	-31.2	-31.8	-31.8	-32.4	-31.4	-27.8	-23.0	-22.1	-20.9	-20.1	-19.9	-19.6	-19.4	-20.3	-21.3	-22.0	-22.6	-23.9	-24.3	-24.4	-25.3	-19.4
17-Feb	-24.4	-24.7	-24.9	-25.6	-26.1	-26.7	-27.1	-27.2	-27.1	-26.8	-26.1	-25.7	-25.8	-25.8	-26.0	-26.3	-26.7	-26.9	-27.2	-27.5	-28.0	-28.4	-28.7	-29.0	-26.6	-24.4
18-Feb	-29.2	-29.4	-29.6	-30.0	-30.3	-30.4	-30.5	-30.7	-30.8	-30.9	-30.9	-30.6	-30.1	-29.8	-29.6	-29.6	-29.7	-29.8	-30.0	-30.9	-32.9	-34.5	-35.4	-35.7	-30.9	-29.2
19-Feb	-36.9	-35.1	-35.7	-37.2	-36.9	-36.8	-37.5	-36.5	-35.1	-32.3	-29.8	-28.0	-26.0	-23.5	-21.6	-20.7	-20.7	-21.7	-23.0	-23.4	-23.6	-24.4	-26.2	-26.7	-29.1	-20.7
20-Feb	-27.7	-28.0	-28.6	-29.7	-30.2	-30.6	-32.1	-31.2	-28.3	-27.2	-25.2	-21.2	-18.6	-16.1	-16.8	-16.4	-16.0	-17.2	-18.7	-20.2	-21.6	-22.6	-23.0	-23.3	-23.8	-16.0
21-Feb	-23.4	-23.9	-24.7	-25.6	-25.2	-24.0	-23.7	-23.7	-23.1	-21.5	-19.7	-18.2	-17.6	-16.9	-17.0	-17.1	-17.5	-19.0	-20.5	-21.9	-23.0	-24.0	-24.6	-25.4	-21.7	-16.9
22-Feb	-25.8	-25.7	-26.0	-26.6	-26.9	-27.3	-27.7	-27.9	-27.8	-27.5	-26.9	-26.0	-24.9	-23.8	-22.7	-21.7	-21.0	-20.9	-20.5	-20.3	-20.1	-19.9	-19.8	-19.7	-24.1	-19.7
23-Feb	-19.6	-19.6	-19.6	-19.9	-19.7	-19.7	-20.2	-20.3	-20.0	-19.4	-18.0	-16.2	-14.4	-14.5	-14.9	-15.7	-16.2	-17.9	-20.0	-21.5	-23.6	-25.6	-25.6	-25.0	-19.5	-14.4
24-Feb	-25.2	-23.8	-25.3	-26.6	-27.4	-27.0	-27.3	-28.1	-27.6	-21.8	-18.3	-15.7	-13.5	-11.6	-11.3	-11.7	-12.7	-13.2	-14.9	-17.2	-20.6	-21.0	-20.5	-19.2	-20.1	-11.3
25-Feb	-18.3	-17.3	-17.1	-17.3	-16.6	-16.1	-16.1	-16.4	-15.8	-13.8	-12.8	-11.1	-10.0	-8.7	-8.2	-7.6	-7.8	-8.4	-8.6	-9.2	-11.0	-12.3	-13.4	-14.2	-12.8	-7.6
26-Feb	-15.0	-15.8	-16.2	-16.5	-16.6	-16.8	-17.0	-16.9	-16.6	-16.7	-16.8	-16.5	-16.0	-16.1	-16.7	-17.5	-17.9	-18.3	-18.6	-19.3	-20.2	-21.1	-22.3	-23.0	-17.7	-15.0
27-Feb	-24.3	-25.2	-25.8	-26.6	-27.8	-28.9	-30.0	-30.9	-29.7	-29.0	-28.4	-27.7	-26.0	-25.2	-24.4	-24.5	-24.8	-25.5	-27.3	-30.1	-32.2	-33.9	-35.2	-36.5	-28.3	-24.3
28-Feb	-37.3	-38.2	-38.5	-38.8	-39.6	-39.5	-39.7	-38.9	-35.3	-31.6	-27.7	-24.8	-21.3	-18.9	-17.0	-14.7	-14.6	-14.8	-16.5	-17.8	-18.1	-19.1	-20.6	-23.0	-26.9	-14.6
	-17.2	-17.3	-17.4	-17.7	-18.0	-18.1	-18.4	-18.6	-18.2	-17.2	-15.9	-14.7	-13.5	-12.5	-12.0	-11.9	-12.2	-13.1	-14.1	-14.9	-15.6	-16.4	-17.0	-17.4	Diurnal Average	
	3.5	3.1	2.6	1.8	0.8	0.5	0.1	-0.5	-0.9	0.4	2.8	5.5	7.4	8.8	10.2	11.0	8.4	3.6	0.8	1.9	3.3	4.8	4.6	4.0	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Ells River - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	216	32.14	32.14
-20 - 0	415	61.76	93.90
0 - 10	39	5.80	99.70
10 - 20	2	0.30	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 2m (RH2) - %

Ells River - February 2026

Maximum Value: 93.2 % on Feb 11 21:00

Maximum Daily Average: 83.3 % on Feb 6

Minimum Value: 33.6 % on Feb 13 16:00

Minimum Daily Average: 52.1 % on Feb 13

Maximum Diurnal Average: 75.3 % at hour 8

Minimum Diurnal Average: 64.3 % at hour 15

Monthly Average: 72.03 %

Percentiles: P_1 = 47.1 P_{10} = 58.6 Q_1 = 65.1 Median = 72.6 Q_3 = 80.3 P_{90} = 83.8 P_{99} = 90.3

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

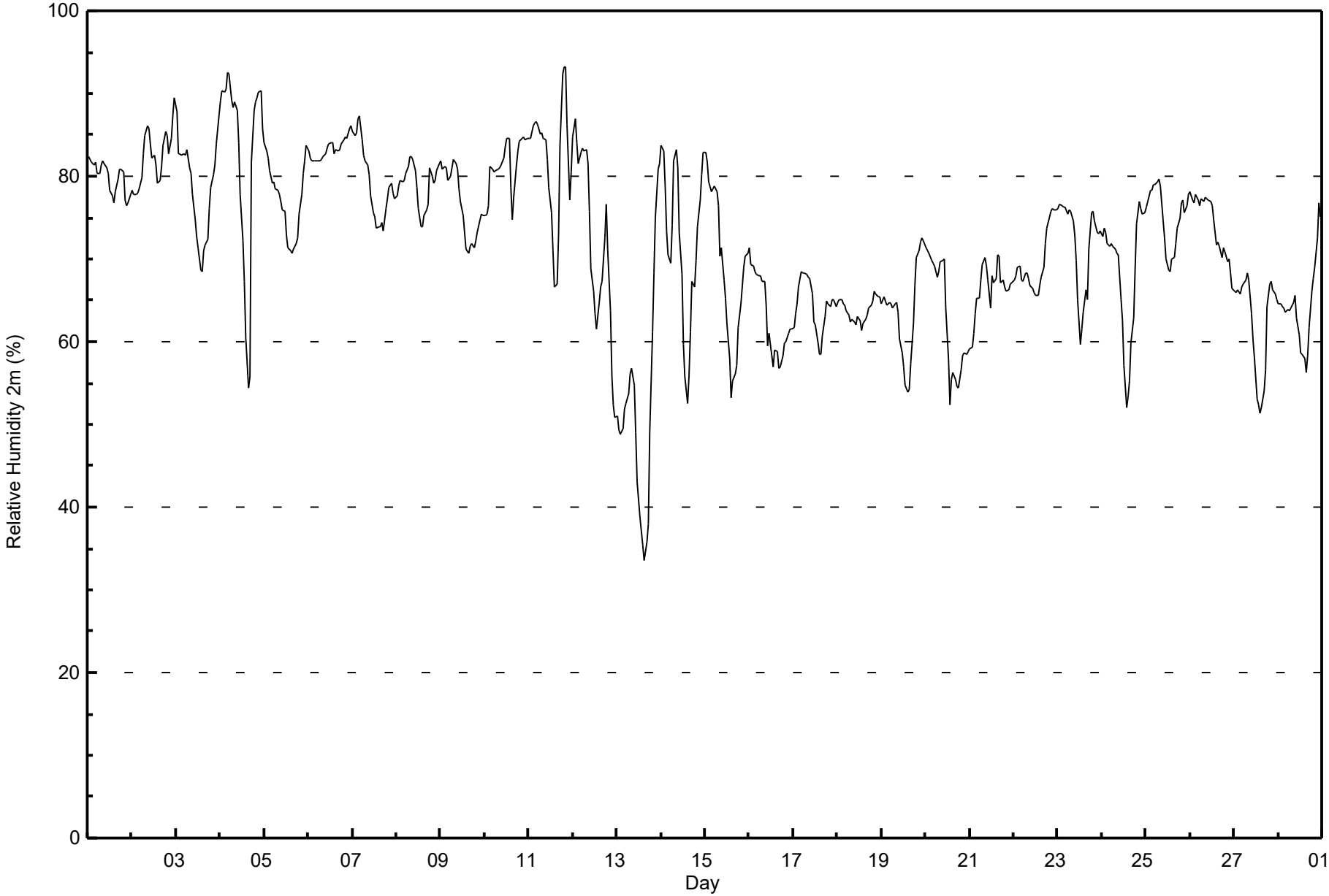
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	82.4	82.1	81.8	81.4	81.7	80.3	80.3	81.4	81.9	81.6	81.0	80.4	78.4	77.6	76.8	78.1	79.6	80.8	80.8	80.5	77.0	76.5	76.8	77.9	79.9	82.4
2-Feb	78.3	77.8	77.7	78.0	78.5	79.8	82.8	85.0	86.1	85.7	83.9	82.2	82.6	81.4	79.2	79.5	81.2	83.8	85.5	84.9	82.8	84.7	87.4	89.5	82.4	89.5
3-Feb	87.9	82.7	82.7	82.6	82.7	82.5	83.3	80.9	80.3	77.8	74.7	72.8	71.4	68.6	68.5	71.1	71.6	72.3	76.0	78.7	80.1	81.4	83.8	87.5	78.4	87.9
4-Feb	89.2	90.4	90.3	90.5	92.5	92.4	89.2	88.4	89.1	88.0	84.0	77.8	72.2	67.2	60.5	54.3	55.7	81.7	88.0	89.0	89.4	90.1	90.3	85.8	82.8	92.5
5-Feb	84.1	83.0	82.1	80.7	79.1	79.4	78.5	78.2	77.8	76.9	75.9	75.7	72.8	71.3	71.0	70.7	71.1	71.8	72.5	75.4	77.9	80.3	81.9	83.7	77.2	84.1
6-Feb	83.1	82.2	81.8	81.8	81.8	81.8	81.9	82.0	82.3	82.7	83.4	83.8	84.1	84.1	82.8	83.2	83.1	83.3	83.9	84.5	84.8	84.7	85.8	86.1	83.3	86.1
7-Feb	85.5	85.0	85.3	87.0	87.3	84.4	82.6	81.9	81.3	80.1	77.6	75.6	75.0	73.8	73.9	73.9	74.3	73.4	76.1	77.3	78.6	79.1	77.9	77.3	79.3	87.3
8-Feb	77.6	78.9	79.6	79.4	79.4	80.3	81.3	82.3	82.4	82.0	80.6	78.7	76.2	73.9	73.9	75.3	75.9	76.6	80.9	80.0	79.1	79.6	80.6	81.5	79.0	82.4
9-Feb	81.8	80.8	81.2	81.1	79.5	79.9	81.1	82.0	81.6	80.8	78.5	76.9	75.2	73.3	71.1	70.7	71.4	71.9	71.4	72.2	73.2	74.7	75.3	75.2	76.7	82.0
10-Feb	75.3	75.4	76.4	81.3	80.9	80.5	80.6	80.8	81.0	81.4	82.2	83.6	84.6	84.7	78.6	74.7	77.4	81.4	83.1	84.2	84.6	84.8	84.4	84.5	81.1	84.8
11-Feb	84.6	84.6	86.1	86.4	86.6	86.3	85.2	85.3	84.5	84.3	82.0	78.6	75.7	71.0	66.6	66.9	72.8	83.7	92.4	93.2	93.2	86.2	77.2	80.5	82.2	93.2
12-Feb	84.7	87.0	84.1	81.5	82.9	83.4	83.0	83.2	81.6	75.7	68.9	66.1	63.4	61.5	64.7	66.6	67.4	72.5	76.7	71.1	63.8	56.0	52.4	50.8	72.0	87.0
13-Feb	51.0	49.4	48.7	49.6	51.9	52.5	53.7	56.0	56.8	54.7	49.0	43.0	38.9	37.1	35.5	33.6	35.7	37.9	49.1	61.1	68.4	75.1	80.9	81.5	52.1	81.5
14-Feb	83.8	83.0	78.8	73.4	70.6	69.5	74.0	81.8	83.2	81.0	73.3	68.2	59.7	55.7	52.6	56.0	61.2	67.3	66.6	69.9	73.9	77.1	80.2	82.9	71.8	83.8
15-Feb	82.8	81.6	79.3	78.1	78.5	78.7	78.1	76.4	70.3	71.4	67.5	65.3	62.1	58.0	53.3	55.2	56.2	57.2	61.6	64.5	66.8	68.9	70.4	70.6	68.9	82.8
16-Feb	71.3	69.4	69.1	68.4	68.2	68.0	67.9	67.4	67.2	64.4	59.6	60.9	58.3	56.9	58.9	58.8	56.8	57.0	58.3	59.8	60.0	61.1	61.6	61.5	63.0	71.3
17-Feb	61.7	63.4	64.5	66.7	68.5	68.4	68.3	68.1	67.9	67.6	65.8	62.3	62.1	59.8	58.4	58.6	60.7	63.1	64.9	64.7	64.2	65.1	65.1	64.3	64.3	68.5
18-Feb	64.8	65.1	65.0	64.5	64.4	63.7	63.2	62.4	62.7	62.3	62.0	63.1	62.5	61.4	62.1	62.7	63.3	64.1	64.4	64.9	66.1	65.8	65.4	65.5	63.8	66.1
19-Feb	64.6	65.5	64.9	64.4	64.8	64.6	64.1	64.5	64.7	63.5	60.3	58.6	57.0	54.7	53.9	54.3	57.2	62.2	66.8	70.1	71.1	72.0	72.5	72.3	63.7	72.5
20-Feb	71.4	71.1	70.7	69.8	69.5	69.1	67.9	68.5	69.6	69.9	69.9	64.1	57.8	52.3	55.4	56.3	55.4	54.6	54.5	56.6	58.3	58.6	58.6	58.8	62.9	71.4
21-Feb	59.2	59.3	61.0	63.4	65.2	65.2	67.5	69.3	70.2	69.2	67.5	64.1	68.0	67.2	67.6	70.6	70.3	67.2	67.4	66.6	66.1	66.2	66.9	67.1	66.3	70.6
22-Feb	67.5	67.9	68.9	69.1	67.4	67.4	68.3	68.2	67.6	66.8	66.5	65.9	65.6	65.7	66.8	67.8	68.9	71.9	73.8	75.0	75.7	76.0	75.9	75.9	69.6	76.0
23-Feb	76.2	76.5	76.4	76.3	76.2	75.4	75.9	75.7	74.6	73.0	69.8	65.1	59.7	61.6	63.5	66.3	65.0	71.1	75.6	75.8	74.5	73.1	73.1	73.4	71.8	76.5
24-Feb	72.7	73.7	73.2	71.8	71.5	71.8	71.5	71.2	70.7	70.6	65.1	62.6	57.1	52.0	53.4	55.2	59.8	62.9	68.8	74.3	77.0	76.1	75.5	75.7	68.1	77.0
25-Feb	76.3	77.0	78.3	78.3	79.0	79.0	79.3	79.6	78.7	74.6	72.6	70.0	68.6	68.4	70.0	70.2	71.9	73.7	75.0	76.8	77.0	75.6	76.4	77.8	75.2	79.6
26-Feb	78.1	77.1	76.8	77.8	77.1	76.5	77.3	76.9	77.4	77.4	77.1	76.9	76.5	74.8	71.7	72.0	71.6	70.3	71.4	70.9	69.6	70.0	68.2	66.5	74.2	78.1
27-Feb	66.1	65.9	66.3	65.7	66.6	67.0	67.4	68.3	67.4	63.4	60.3	58.2	53.1	52.4	51.4	52.0	54.0	56.6	64.3	66.9	67.3	66.3	65.7	65.2	62.4	68.3
28-Feb	64.6	64.6	64.2	64.1	63.6	63.8	63.8	64.0	64.7	65.5	62.9	60.8	58.6	58.5	57.9	56.2	58.3	61.6	66.1	67.6	69.0	72.6	76.7	75.2	64.4	76.7
	75.2	75.0	74.8	74.8	74.9	74.7	74.9	75.3	75.1	74.0	71.5	69.3	67.0	65.2	64.3	64.7	66.0	69.0	72.0	73.5	73.9	74.2	74.5	74.8	Diurnal Average	
	89.2	90.4	90.3	90.5	92.5	92.4	89.2	88.4	89.1	88.0	84.0	83.8	84.6	84.7	82.8	83.2	83.1	83.8	92.4	93.2	93.2	90.1	90.3	89.5	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Ells River - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	6	0.89	0.89
40 - 60	77	11.46	12.35
60 - 80	413	61.46	73.81
80 - 100	176	26.19	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Global Radiation (GR) - W/m2

Ells River - February 2026

Maximum Value: 524.0 W/m2 on Feb 28 13:00

Maximum Daily Average: 140.2 W/m2 on Feb 28

Minimum Value: 0.0 W/m2 on Feb 1 01:00

Minimum Daily Average: 15.2 W/m2 on Feb 8

Maximum Diurnal Average: 257.9 W/m2 at hour 13

Minimum Diurnal Average: 0.0 W/m2 at hour 6

Monthly Average: 61.67 W/m2

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.0 Q_3 = 82.1 P_{90} = 227.9 P_{99} = 449.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

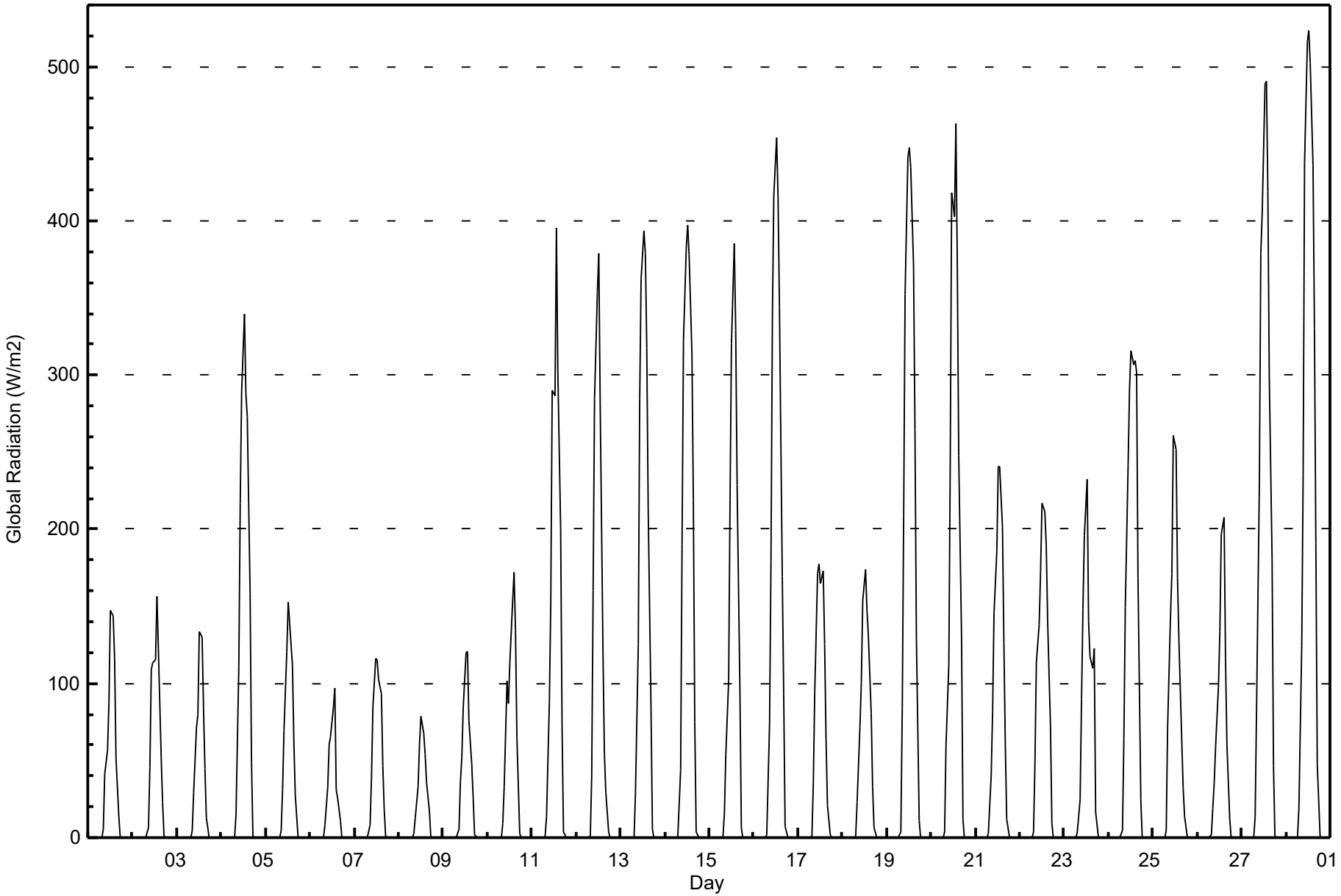
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	41.5	56.3	87.7	147.8	143.8	116.3	51.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	147.8
2-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	45.7	108.6	113.3	115.5	156.2	123.0	52.1	22.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	31.0	156.2
3-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	28.9	71.5	79.7	133.6	129.6	83.6	44.4	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5	133.6
4-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	110.4	216.6	289.6	339.4	288.7	272.7	158.7	48.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	72.5	339.4
5-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	31.2	69.3	120.6	152.7	138.9	111.8	62.5	27.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	30.0	152.7
6-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	32.8	60.4	66.2	83.8	97.2	31.2	25.8	10.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	17.4	97.2
7-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	39.1	85.5	115.9	115.1	102.3	93.7	46.6	18.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	26.0	115.9
8-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	13.2	32.7	60.4	78.6	68.1	53.8	36.0	17.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	15.2	78.6
9-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	36.5	51.9	85.0	120.2	120.8	76.1	47.6	26.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	23.8	120.8
10-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	33.4	101.4	87.1	113.2	153.9	172.0	134.5	64.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	36.4	172.0
11-Feb	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5	13.7	87.5	152.8	289.8	286.5	395.5	303.2	199.8	72.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	75.2	395.5
12-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	40.6	160.5	284.2	353.2	379.3	282.2	118.7	54.3	29.2	4.0	0.1	0.0	0.0	0.0	0.0	0.0	71.1	379.3
13-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	28.9	125.6	284.8	362.7	393.5	378.8	317.7	214.5	83.9	5.1	0.0	0.0	0.0	0.0	0.0	0.0	91.5	393.5
14-Feb	0.1	0.0	0.0	0.1	0.0	0.0	0.0	1.0	43.5	190.2	322.5	382.6	397.3	377.9	314.1	219.0	74.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	96.9	397.3
15-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	15.1	54.3	101.3	219.1	320.2	385.7	329.2	228.9	95.3	6.9	0.1	0.0	0.0	0.0	0.0	0.0	73.2	385.7
16-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	74.3	179.6	336.8	416.4	454.1	416.0	343.9	169.3	93.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0	103.9	454.1
17-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	35.4	94.0	171.6	177.9	164.3	173.1	125.4	64.1	20.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	42.9	177.9
18-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	22.6	71.7	101.0	154.1	173.5	147.1	130.6	80.3	32.6	6.3	0.0	0.1	0.0	0.0	0.0	0.0	38.4	173.5
19-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	83.0	208.6	352.4	440.7	447.2	434.4	370.9	264.3	131.3	10.6	0.2	0.0	0.0	0.0	0.0	0.0	114.5	447.2
20-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	60.5	112.9	245.5	417.9	402.4	463.3	370.3	247.7	130.3	11.8	0.1	0.0	0.0	0.0	0.0	0.0	102.8	463.3
21-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	40.6	81.8	145.3	185.9	241.2	240.6	201.0	126.6	60.5	11.9	0.0	0.0	0.0	0.0	0.0	0.0	55.8	241.2
22-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	48.8	113.2	138.6	173.1	216.9	211.3	189.7	140.1	72.3	8.8	0.0	0.0	0.0	0.0	0.0	0.0	54.9	216.9
23-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	25.1	89.9	148.0	195.6	232.3	139.7	116.9	109.9	122.4	16.6	0.1	0.0	0.0	0.0	0.0	0.0	50.0	232.3
24-Feb	0.0	0.0	0.1	0.0	0.0	0.0	0.1	4.7	63.7	149.0	241.4	291.4	315.5	306.5	309.2	302.2	168.1	24.9	0.4	0.2	0.0	0.0	0.0	0.0	90.7	315.5
25-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	72.0	142.6	171.3	260.9	251.3	168.1	127.2	63.3	32.4	13.5	0.0	0.0	0.0	0.0	0.0	0.0	54.5	260.9
26-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	19.1	35.9	59.4	97.7	133.9	197.2	207.4	116.2	60.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	39.2	207.4
27-Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	83.9	230.7	379.1	405.8	488.6	490.7	419.2	298.9	180.4	46.4	0.8	0.0	0.0	0.0	0.0	0.0	126.6	490.7
28-Feb	0.0	0.0	0.0	0.1	0.0	0.0	0.0	19.2	124.3	235.0	437.7	516.4	524.0	502.1	435.8	330.3	191.6	47.4	0.8	0.1	0.0	0.0	0.0	0.1	140.2	524.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	34.5	99.1	176.0	230.2	257.9	253.9	209.4	138.9	68.4	9.0	0.1	0.0	0.0	0.0	0.0	0.0	Diurnal Average	
	0.1	0.0	0.1	0.1	0.1	0.0	0.1	19.2	124.3	235.0	437.7	516.4	524.0	502.1	435.8	330.3	191.6	47.4	0.8	0.2	0.0	0.0	0.0	0.1	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Global Radiation (GR) - W/m2

Ells River - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Ells River - February 2026

Maximum Speed: 39 km/h on Feb 17 18:00

Maximum Daily Speed Average: 30.7 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 21 11:00

Minimum Daily Speed Average: 0.7 km/h on Feb 4

Maximum Diurnal Speed Average: 6.8 km/h at hour 18

Minimum Diurnal Speed Average: 2.5 km/h at hour 9

Monthly Average Velocity: 4.2 km/h 20.4 deg

Percentiles: P_1 = 1 P_{10} = 3 Q_1 = 5 Median = 9 Q_3 = 14 P_{90} = 21 P_{99} = 36

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	ESE5	E4	ESE6	SE7	SSE9	SE11	SE10	SE12	SE9	SE10	SE9	SSE13	SSE16	SE14	SSE10	SSE10	SSE13	SE9	SSE6	SSE7	SSE12	SSE12	SSE11	SSE10	SE9.6	SSE16
2-Feb	SSE8	S8	S8	S9	S8	SSE7	SSE7	SSE5	SSE4	S8	S9	S8	S9	S10	S7	SSW6	SE4	ENE2	NNE4	N5	N7	NNE9	N7	NNE8	SSE3.7	S10
3-Feb	NNE14	NNE12	NNE7	NE5	NNE6	NE6	NE10	NNE9	NE8	NE8	NE8	N4	N2	SE5	NNE1	ENE2	E2	ESE2	S2	WNW1	E2	WNW2	WSW1	SSW2	NE4.0	NNE14
4-Feb	SSE12	SSE12	S11	S8	W5	SSW8	SSW11	SSW12	S12	S11	S10	SSW10	SW11	SW11	SW11	WSW8	NNW9	NNE24	NNE24	N20	N19	NNE19	NNE18	NNE18	WNW0.7	NNE24
5-Feb	NNE17	NNE23	NNE21	NNE20	NNE22	N19	N23	NNE21	NNE17	NNE15	NNE12	NNE9	NE6	NE6	NE9	ENE7	ENE9	ENE8	ENE7	NE9	NE8	NE7	NNE6	NNE7	NNE12.3	N23
6-Feb	N6	N4	NNW3	N3	N3	N4	N4	N4	N4	N3	NNW3	N3	W1	SE2	SSW4	W2	WNW4	NW3	WNW3	WSW5	WSW6	WSW3	S4	SSE4	NW1.7	WSW6
7-Feb	N3	NNW3	N5	NNE12	NNE16	NNE14	NNE14	NNE15	NNE16	NNE17	NNE16	NNE16	NNE15	NNE15	NE15	NE14	N12	N11	N13	N13	N13	N11	N12	N11	NNE12.3	NNE17
8-Feb	N10	N9	N6	NW6	NW5	N3	NNW2	NW3	N3	N8	N9	N13	N14	NNE12	NE9	NE10	NE9	NE6	ENE5	NE5	NE7	ENE5	E3	ESE4	NNE6.1	N14
9-Feb	SE1	SE1	E1	E2	E2	NNE3	N4	NNE5	N7	NNE10	NNE12	N14	NNE13	NNE15	NNE15	NNE15	N14	NNE14	N14	N12	NNE13	NNE11	N11	N11	NNE8.8	NNE15
10-Feb	N10	N7	N8	N8	N4	UO	W2	SW2	SW3	SW3	SW3	S5	S8	S11	SSW9	SW9	SW8	SW9	SW7	SW8	SSW7	SSW7	S9	S9	SW3.5	S11
11-Feb	S11	SSE9	SSE10	S8	SE5	S11	S9	SSW13	SSW13	SSE11	SSE12	SSE11	SSE9	S11	SSW11	SSW11	SSW8	S3	SE4	S5	NW1	NNE8	NNE4	W2	S7.0	SSW13
12-Feb	SE3	S7	SSW8	SSW5	SW5	SSW10	SSW9	SW12	SW11	SSW8	SSW9	S13	SSW13	SSW15	S9	SSE10	S8	SE9	SSE9	S9	S11	SSW15	SW15	SW14	SSW9.2	SW15
13-Feb	SSW12	SSW16	SW16	SW16	SW16	SW15	WSW11	WSW8	SW9	SSW9	SW9	WSW11	SW10	SW11	SW11	SW9	SW9	WSW6	SSW4	NNW5	WNW4	WNW6	W3	WSW3	SW8.8	SW16
14-Feb	S3	S3	SSW6	S10	SSW8	SSW7	WSW3	WNW6	W4	NW5	NNE4	NNE5	NNE2	NNE5	N6	N8	N10	N6	N9	NNW7	N7	N7	N13	N6	NNW2.8	N13
15-Feb	N16	NNE13	N14	N16	NNE15	NNE11	NNE11	NNE12	NNE15	NNE15	NNE16	NE11	NE9	N7	NNE7	NNE9	NNE10	NE7	NE7	NNE5	N4	NW1	WSW2	NNE4	NNE9.5	N16
16-Feb	N3	WNW2	W4	WSW2	SW1	SSW1	W1	SW1	WSW1	W1	NNW3	NNW8	NNW7	NNE9	N15	NNE16	NNE16	NNE19	NNE18	NNE17	N22	N21	N20	N22	N8.7	N22
17-Feb	N24	N21	NNE22	NNE23	NNE22	NNE23	NNE27	NNE26	NNE27	NNE30	N33	N36	N32	N35	N36	N37	N36	N39	N37	N36	N36	N35	N31	N35	N30.7	N39
18-Feb	N34	N34	N32	N36	N30	N33	N36	N33	N27	N30	N28	N21	NNE21	NNE26	NNE22	N19	NNE16	N14	N7	NE3	SSW3	WSW1	WSW5	SSW6	N20.3	N36
19-Feb	S5	SSW8	SSW6	S8	S8	SSW7	S6	S9	SSE10	SSE11	S13	SSE15	SSE15	S15	S12	SSE14	SE11	SSE9	SSE8	SSE10	SSE10	SSE9	S10	S10	S9.7	SSE15
20-Feb	S10	S9	SSE7	SSE7	SSE7	S5	S5	S7	SSE2	SSE5	SE6	ESE6	NNE4	N6	N10	NNE8	NNE11	NNE14	NNE17	NNE20	N19	N18	N15	N15	NNE4.1	NNE20
21-Feb	N15	N15	NNE13	NNE11	NNE11	N4	SE5	SSE3	SSW3	SSW1	NW0	NNW1	NNE7	NNE14	NNE20	NNE19	NNE19	N23	NNE21	NNE22	NNE25	NNE21	N18	N19	NNE11.9	NNE25
22-Feb	N15	NNE15	N14	N16	N17	N17	N15	N14	N13	N15	N13	N11	N11	NNE11	N9	N9	N8	N8	N6	N5	NNW3	NNW3	N10.8	N17		
23-Feb	NNW3	N3	NNW1	S3	ESE3	SSE6	SE6	SSE5	SSE2	SSE5	S5	NE4	NNE2	NNE3	E5	E6	NE6	NE5	WNW2	W1	WNW3	W4	W3	SSW1	ESE1.1	NE6
24-Feb	UO	S6	SSE5	S4	SSE4	S5	SSE4	SSE2	SSE3	SSE4	SE7	SE8	SSE7	SW6	S11	SSE13	SE15	SSE10	SSE8	SSE5	SSE2	SSW1	WNW2	NW2	SSE5.1	SE15
25-Feb	NW2	NW2	NW3	W3	W2	UO	SSW3	S4	S5	S8	SSE11	SSE12	SSE12	SSE10	SE7	E5	NNE8	N10	NNE9	NNE16	N18	NNE20	N20	NNE17	NE3.0	N20
26-Feb	NNE21	NNE18	NNE14	NNE14	N17	N20	N20	N23	NNE22	NNE27	N28	N30	N28	NNE28	NNE29	NNE30	N32	N33	N27	N26	N24	NNE15	NNE18	NNE17	N23.2	N33
27-Feb	NNE20	NNE22	NNE20	NNE19	NNE18	NNE12	NNE7	NNE6	NNW2	NNE9	NNE9	N5	N4	N4	NE6	NE6	NE6	ENE4	N2	W2	W2	W3	WSW1	SW2	NNE7.0	NNE22
28-Feb	SSW1	S2	S5	S5	S6	S8	S10	S9	S9	SSE12	SSE15	S15	S14	SSE12	SE12	SSE14	SSE12	SSE10	SSE10	S11	S11	SSW8	S7	SSE8	S9.1	S15
	NNE5.5	NNE4.4	N3.6	NNE3.7	NNE4.0	NNE3.0	NNE3.1	NNE2.8	NNE2.5	NE3.6	NE3.5	NE3.2	NE2.6	NE3.1	NE4.1	NE4.5	NNE5.7	NNE6.8	NNE6.5	NNE6.2	N6.1	N5.6	N4.8	NNE4.6	Diurnal Average	
	N34	N34	N32	N36	N30	N33	N36	N33	N27	NNE30	NNE33	N36	N32	N35	N36	N37	N36	N39	N37	N36	N36	N35	N31	N35	Diurnal Maximum	

UO - Unstable Operation

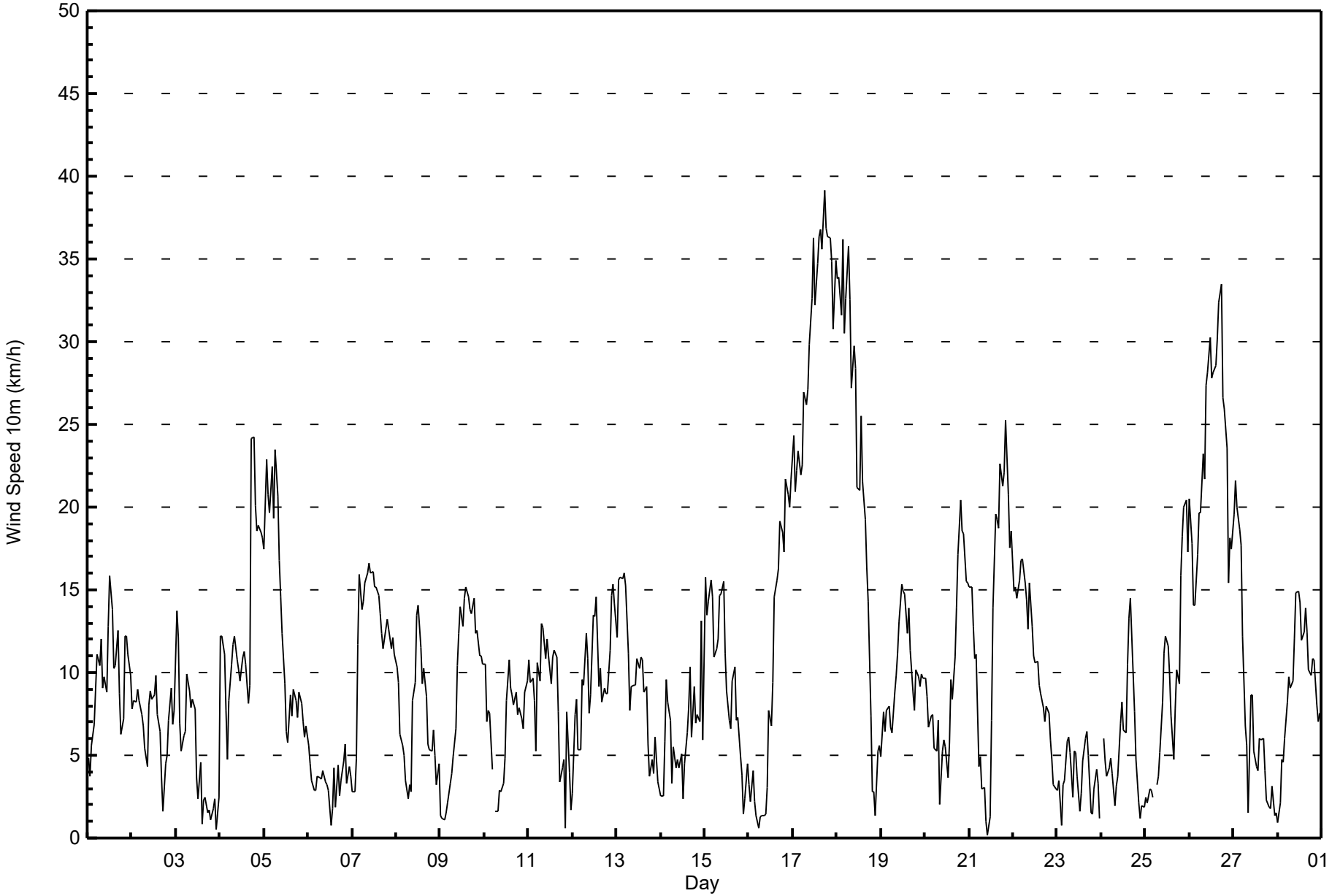
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Ells River - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	190	28.40	28.40
6 - 11	253	37.82	66.22
12 - 19	145	21.67	87.89
20 - 28	52	7.77	95.67
29 - 38	28	4.19	99.85
> 38	1	0.15	100.00

Total Number of Valid Hours: 669

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Ells River - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	26	15	5	5	9	4	9	17	18	13	8	11	18	9	11	12	190
6 - 11	40	29	24	4	1	2	13	37	47	27	16	6	0	2	1	4	253
12 - 19	38	60	2	0	0	0	4	19	7	8	7	0	0	0	0	0	145
20 - 28	21	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
29 - 38	24	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
> 38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Totals	150	139	31	9	10	6	26	73	72	48	31	17	18	11	12	16	669

Total Number of Valid Hours: 669

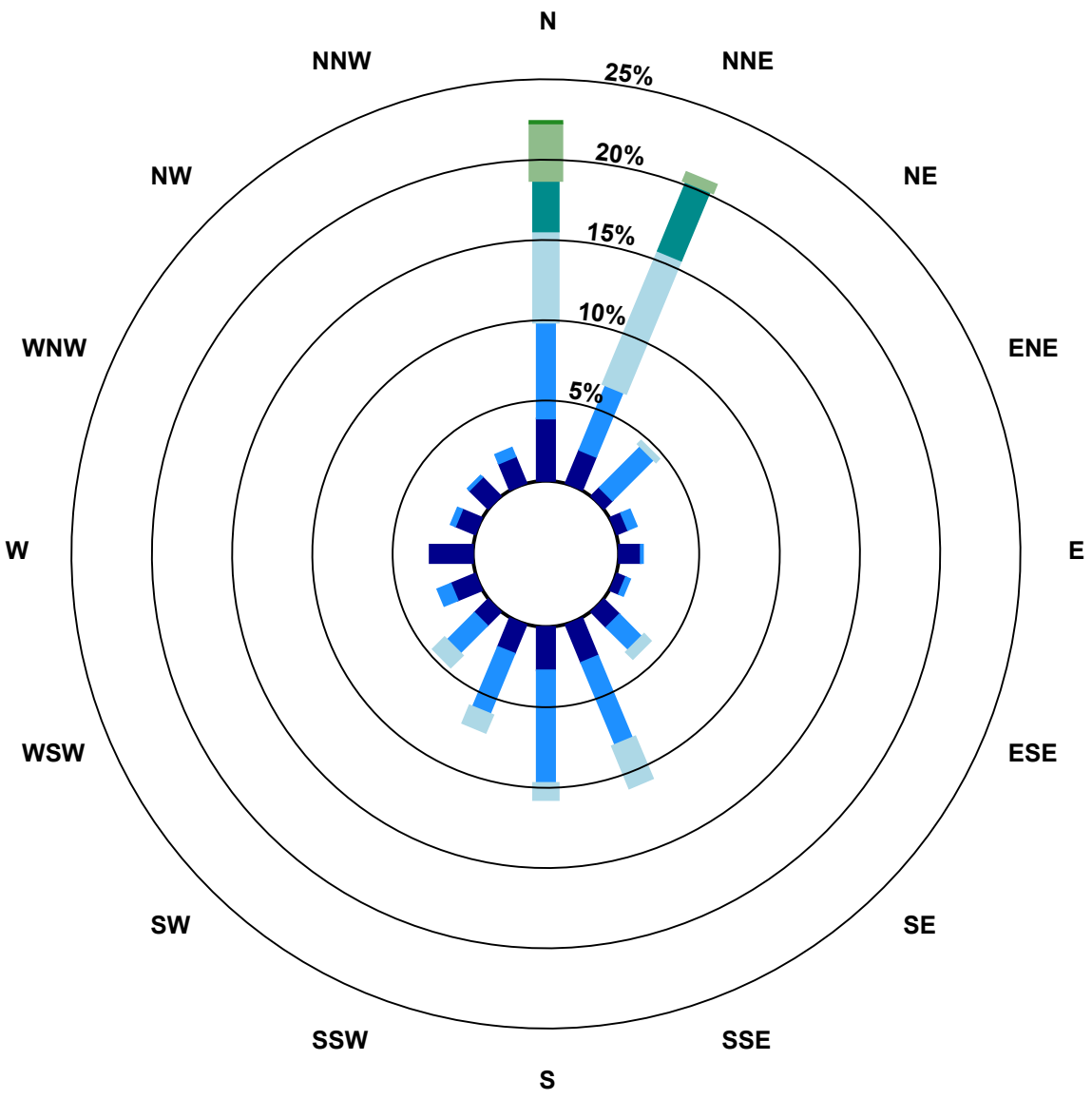
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Ells River



Classes (km/h)

- 0 - 5
- 6 - 11
- 12 - 19
- 20 - 28
- 29 - 38
- > 38

Total Number of Valid Hours: 669

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Ells River - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 9 km/h on Feb 4 17:00

Minimum Value: 0 km/h on Feb 23 01:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 6

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Hours of Calibration:	0
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	1	2	1	2	1	1	1	1	1	1	2	3	3	2	2	2	2	1	3	2	2	2	2	3
2-Feb	1	2	2	2	2	1	1	1	1	2	2	2	2	2	2	3	1	1	1	1	2	1	1	1	3
3-Feb	3	3	2	2	2	2	2	2	1	2	2	1	1	2	1	1	1	1	1	1	1	1	2	2	3
4-Feb	3	3	4	3	1	3	2	3	2	3	2	3	3	3	3	2	9	4	3	3	2	3	3	3	9
5-Feb	3	3	3	4	4	3	4	3	3	3	2	2	2	2	2	2	1	2	2	1	2	1	1	1	4
6-Feb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	1	1	1	1	2	2
7-Feb	1	1	3	2	2	4	2	2	4	2	3	2	2	3	2	2	2	2	1	2	1	1	2	1	4
8-Feb	1	1	2	1	1	1	1	1	1	2	2	4	2	2	2	1	2	1	1	1	1	1	2	1	4
9-Feb	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	2
10-Feb	1	1	1	1	2	UO	1	1	1	1	1	1	2	3	2	2	2	2	1	1	1	2	1	1	3
11-Feb	2	2	1	2	2	2	1	3	3	2	2	2	2	3	3	3	2	1	1	1	2	1	2	2	3
12-Feb	1	2	2	1	2	4	2	3	3	3	3	3	3	4	2	2	2	1	1	2	4	3	4	3	4
13-Feb	3	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	2	1	2	1	1	2	1	4
14-Feb	2	1	2	3	3	2	2	1	1	1	1	1	2	2	3	1	2	1	2	1	2	2	4	4	4
15-Feb	2	2	3	2	3	3	3	3	2	2	3	3	2	2	3	2	1	1	2	2	1	1	1	2	3
16-Feb	2	2	2	1	1	1	1	1	1	1	1	1	1	3	2	2	3	3	5	4	3	4	2	3	5
17-Feb	4	3	3	4	3	3	4	5	5	5	5	6	5	5	6	6	6	6	6	6	6	6	6	5	6
18-Feb	5	5	5	6	5	5	5	7	4	4	5	4	4	4	4	3	3	3	1	1	2	2	1	1	7
19-Feb	1	1	1	1	1	1	2	1	1	2	3	3	3	3	3	2	2	1	1	1	1	1	1	1	3
20-Feb	1	2	3	1	1	1	1	2	1	2	1	2	2	2	1	2	2	2	4	3	2	2	3	3	4
21-Feb	2	2	2	1	2	2	1	1	1	1	1	2	3	4	3	3	3	3	3	3	4	4	3	3	4
22-Feb	3	2	2	2	2	3	2	2	2	2	1	1	1	2	2	1	1	1	1	1	1	1	1	1	3
23-Feb	0	1	1	1	3	1	1	1	2	2	2	1	1	1	2	1	1	2	1	1	1	1	1	1	3
24-Feb	UO	1	1	1	1	1	1	2	2	2	1	1	2	3	3	3	2	1	1	1	1	1	1	1	3
25-Feb	1	1	1	2	2	UO	2	1	1	2	2	3	2	2	2	1	2	2	3	5	3	4	3	3	5
26-Feb	4	3	3	4	3	3	3	3	3	4	4	4	4	5	6	5	5	6	4	4	4	3	3	3	6
27-Feb	3	3	4	3	3	3	3	2	1	3	2	1	2	2	2	2	2	1	1	1	1	0	1	1	4
28-Feb	1	1	2	1	1	1	1	1	2	2	2	3	3	3	2	3	2	2	1	1	1	1	1	2	3
	5	5	5	6	5	5	5	7	5	5	5	6	5	5	6	6	9	6	6	6	6	6	6	5	
	Diurnal Maximum																								

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Ells River - February 2026

Direction of Maximum Speed: 5 deg on Feb 17 18:00
Direction of Maximum Daily Speed Average: 10.6 deg on Feb 17

Direction of Minimum Speed: 313 deg on Feb 21 11:00
Direction of Minimum Daily Speed Average: 0.7 deg on Feb 4

Monthly Average Direction: 20.4 deg

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	104	99	122	132	147	139	145	140	138	142	142	150	148	146	147	161	153	140	153	150	154	157	160	160	146.1
2-Feb	163	177	179	169	170	154	165	159	152	170	178	175	184	171	189	198	139	59	21	0	5	28	354	19	162.1
3-Feb	15	22	17	39	25	47	44	31	44	48	49	349	358	131	27	70	83	106	174	294	81	300	255	213	35.4
4-Feb	166	160	184	181	264	198	198	201	187	181	177	212	225	224	221	251	331	14	14	3	5	16	25	25	293.1
5-Feb	32	26	15	24	17	6	10	13	28	22	17	21	44	43	47	59	67	65	62	50	50	48	15	27	27.4
6-Feb	354	357	343	352	8	355	1	354	0	356	335	357	267	131	194	272	299	312	296	240	256	244	183	164	318.2
7-Feb	355	347	3	13	20	16	20	26	27	27	26	29	32	31	35	37	10	9	7	8	4	356	356	0	18.2
8-Feb	1	5	3	324	321	2	330	326	359	358	357	6	10	21	39	38	36	34	64	36	53	62	100	114	17.8
9-Feb	128	143	84	84	93	28	1	21	4	18	18	8	15	21	31	12	11	16	9	11	14	15	4	3	15.6
10-Feb	358	349	356	353	360	UO	274	235	229	216	231	190	182	189	213	214	227	232	231	235	202	205	174	171	221.7
11-Feb	176	168	166	171	142	190	184	193	192	166	167	165	166	189	211	198	194	169	139	180	320	24	19	265	178.4
12-Feb	140	177	203	209	223	212	211	224	223	199	203	187	195	197	174	158	179	146	151	182	191	212	216	216	196.3
13-Feb	210	212	219	226	231	232	242	237	218	206	225	238	234	228	235	229	229	239	207	337	298	291	276	240	230.8
14-Feb	190	187	199	183	192	202	256	282	269	308	13	12	14	15	3	11	356	356	4	348	5	359	353	349	340.6
15-Feb	7	20	11	7	12	24	16	15	19	29	32	39	49	4	19	23	24	50	38	27	11	320	253	29	20.9
16-Feb	10	293	268	253	228	210	268	230	258	265	331	347	344	13	10	21	15	13	20	21	9	5	5	6	5.8
17-Feb	8	11	13	15	16	18	15	18	17	16	11	10	8	8	11	8	6	5	6	8	9	8	9	9	10.6
18-Feb	7	4	4	5	6	5	7	7	2	6	6	5	16	17	17	10	14	3	355	35	208	239	239	210	6.3
19-Feb	185	194	196	185	189	201	170	172	166	168	175	166	165	172	172	153	143	149	154	165	166	168	175	178	170.0
20-Feb	177	179	166	154	161	177	177	177	163	148	128	120	13	350	2	18	26	22	12	13	5	5	2	11	30.3
21-Feb	9	9	18	29	16	5	140	151	210	202	313	343	19	21	25	29	15	9	14	23	18	19	8	10	17.6
22-Feb	11	14	9	7	3	6	3	4	3	4	0	10	10	13	4	5	356	354	359	359	358	350	332	342	4.2
23-Feb	331	357	335	184	120	152	143	166	148	154	183	53	33	32	83	97	55	40	293	263	285	281	263	202	117.0
24-Feb	UO	187	167	169	163	171	161	158	151	167	129	127	149	216	174	157	140	156	152	157	161	203	288	314	159.6
25-Feb	315	326	310	275	271	UO	203	181	191	173	163	159	155	159	125	94	22	7	18	14	11	15	11	16	38.2
26-Feb	13	13	17	21	10	4	6	8	12	14	10	10	8	20	13	14	359	4	7	7	3	17	28	17	10.6
27-Feb	19	13	18	21	22	17	26	20	334	25	18	2	359	359	47	47	55	61	8	267	275	259	257	235	18.3
28-Feb	207	187	182	181	184	185	184	172	169	165	167	172	179	151	138	160	149	164	166	171	181	194	191	165	169.6
	16.0	16.7	11.1	18.6	14.5	14.5	17.4	16.9	23.0	36.8	35.8	36.1	38.7	37.9	35.1	37.6	24.5	19.9	19.1	14.1	10.8	8.0	3.9	13.8	
	Diurnal Average																								

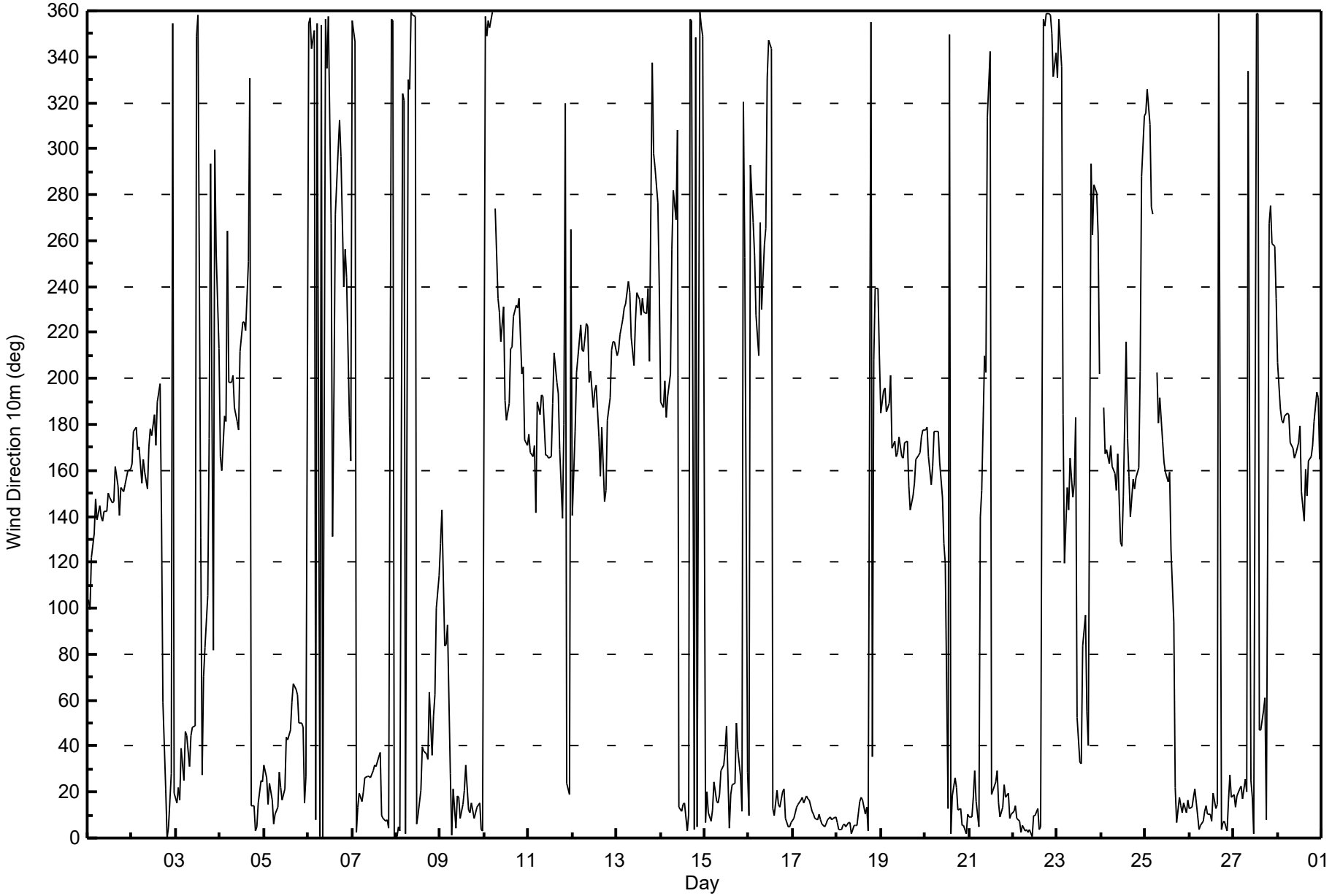
UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Ells River - February 2026



Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 94 deg on Feb 21 12:00

Minimum Value: 4 deg on Feb 19 21:00

Percentiles: P_1 = 5 P_{10} = 8 Q_1 = 10 Median = 13 Q_3 = 21 P_{90} = 37 P_{99} = 77

Hours in Service:	672
Hours of Data:	669
Hours of Missing Data:	3
Hours of Calibration:	0
Percent Operational Time:	99.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	25	36	26	19	10	9	7	7	7	9	9	10	10	11	14	14	10	8	8	10	10	10	10	11	36
2-Feb	12	13	12	11	12	9	9	11	13	13	14	15	13	14	16	18	30	56	12	15	16	10	13	12	56
3-Feb	7	9	16	23	13	26	11	9	11	12	14	20	45	23	86	37	31	60	48	66	44	25	79	36	86
4-Feb	11	12	15	40	40	19	16	17	12	14	21	20	19	19	18	23	50	10	9	12	11	9	9	10	50
5-Feb	9	8	11	10	9	10	11	10	13	12	11	15	26	31	16	17	17	19	15	12	11	11	14	11	31
6-Feb	12	12	14	22	13	12	18	12	9	12	22	20	89	69	35	60	10	35	27	14	11	34	34	70	89
7-Feb	39	30	12	11	10	10	9	9	9	10	10	9	12	11	10	10	12	13	9	9	10	10	10	10	39
8-Feb	10	10	23	13	12	24	29	40	51	16	13	13	11	15	15	12	14	11	13	15	12	13	33	16	51
9-Feb	66	71	47	48	47	36	42	30	19	10	10	9	13	13	10	13	9	8	8	9	7	8	9	8	71
10-Feb	9	13	10	10	16	UO	29	23	21	22	23	23	16	18	24	20	19	18	14	14	14	20	13	7	29
11-Feb	9	9	7	7	34	15	14	11	14	12	11	13	22	22	19	18	18	39	13	12	80	6	77	49	80
12-Feb	44	7	27	30	31	20	17	16	17	26	23	13	16	16	20	10	16	9	11	14	19	16	17	17	44
13-Feb	15	16	18	18	19	19	18	31	21	24	21	22	25	23	21	24	19	21	26	48	22	11	35	32	48
14-Feb	63	60	12	11	22	19	46	20	25	28	21	10	46	42	21	10	6	16	10	10	13	10	9	54	63
15-Feb	10	9	16	12	11	10	8	10	9	12	11	22	19	25	31	19	11	9	11	27	21	56	15	19	56
16-Feb	18	50	13	46	52	54	42	41	35	30	22	13	11	18	11	10	8	6	9	7	11	10	11	9	54
17-Feb	10	10	8	7	7	7	9	9	9	9	11	10	11	12	12	10	13	14	12	11	13	12	13	10	14
18-Feb	13	13	13	12	11	13	11	13	12	11	13	14	13	12	10	11	12	10	12	42	38	49	14	21	49
19-Feb	7	7	9	7	20	15	8	10	10	13	15	12	15	15	16	13	7	7	4	6	4	5	10	5	20
20-Feb	4	6	25	9	10	11	11	6	29	11	9	15	68	16	11	16	9	9	6	7	10	9	11	7	68
21-Feb	7	7	9	6	11	23	23	32	21	58	91	94	19	17	10	9	12	9	8	9	9	9	9	8	94
22-Feb	8	8	7	9	11	10	9	11	9	8	10	7	11	8	9	9	9	9	9	9	11	7	13	17	17
23-Feb	16	11	54	32	46	11	9	9	36	29	39	21	27	25	37	24	24	19	47	43	19	9	18	53	54
24-Feb	UO	10	12	19	27	16	28	50	17	25	6	10	48	54	24	13	7	7	6	11	60	89	14	21	89
25-Feb	46	32	46	29	36	UO	44	15	13	14	13	14	18	16	12	23	20	6	9	8	9	11	7	10	46
26-Feb	8	9	10	9	9	11	10	9	9	7	10	9	12	9	12	11	12	14	12	11	11	11	7	10	14
27-Feb	9	10	10	8	10	8	16	10	34	16	18	13	22	21	23	22	21	20	42	13	31	13	30	46	46
28-Feb	58	14	10	5	7	8	7	8	11	11	11	13	14	24	18	16	12	9	6	5	5	7	21	15	58
	66	71	54	48	52	54	46	50	51	58	91	94	89	69	86	60	50	60	48	66	80	89	79	70	
	Diurnal Maximum																								

UO - Unstable Operation

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS31
BLACKROD
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BLACKROD (AMS31)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	623	33	49	97.62	4.3	0	1.3	0
H2S (ppb) Average	624	32	48	97.62	1.5	0	0.4	0
THC(ppm) Average	545	27	81	91.37	15.9	-	4.3	-
NO2 (ppb) Average	625	31	47	97.62	21.9	0	8.9	-
NO (ppb) Average	625	31	47	97.62	42.6	-	19.7	-
NOX (ppb) Average	625	31	47	97.62	50.2	-	26.4	-
Temperature 2 m (C) Average	672	0	0	100	10.5	-	4.2	-
Relative Humidity (%) Average	672	0	0	100	98	-	95.2	-
Wind Speed 10 m (km/h) Average	672	0	0	100	26	-	21	-
Wind Direction 10 m (deg) Average	672	0	0	100	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BLACKROD (AMS31)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	623	0.34	0.4	-	0	0	0.1	0.2	0.4	0.8	4.3
H2S (ppb) Average	624	0.18	0.1	-	0	0.1	0.1	0.1	0.2	0.3	1.5
THC (ppm) Average	545	2.76	1.1	-	2	2.2	2.3	2.4	2.7	3.6	15.9
NO2 (ppb) Average	625	4.38	3.6	-	0.3	1.1	1.7	3.3	6.2	9.3	21.9
NO (ppb) Average	625	3.73	6.3	-	0	0	0.2	0.8	4.7	11.4	42.6
NOX (ppb) Average	625	8.11	8.8	-	0.5	1.3	2.1	4.1	11.1	20.3	50.2
Temperature 2 m (C) Average	672	-10.14	10.5	-	-34.5	-25.5	-18.9	-7.4	-1.8	1.4	10.5
Relative Humidity (%) Average	672	74.85	14.3	-	25.9	55.4	67.9	75.9	85.8	92.4	98
Wind Speed 10 m (km/h) Average	672	10.8	6	-	0	4	7	10	14	19	26
Wind Direction 10 m (deg) Average	672	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BLACKROD (AMS31)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
AIR QUALITY ANALYZERS	23 Feb 2026 02:00	23 Feb 2026 16:00	15	Station power failure
AIR QUALITY ANALYZERS	25 Feb 2026 10:00	25 Feb 2026 10:00	1	Station power failure

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Blackrod - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 4.3 ppb on Feb 21 10:00

Maximum Daily Average: 1.3 ppb on Feb 21

Minimum Value: 0.0 ppb on Feb 3 18:00

Minimum Daily Average: 0.0 ppb on Feb 12

Maximum Diurnal Average: 0.5 ppb at hour 11

Minimum Diurnal Average: 0.2 ppb at hour 23

Monthly Average: 0.34 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.2 Q_3 = 0.4 P_{90} = 0.8 P_{99} = 1.9

Hours in Service:	672
Hours of Data:	623
Hours of Missing Data:	49
Hours of Calibration:	33
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.1	0.1	0.2	0.2	0.1	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4
2-Feb	0.4	Z	0.4	0.3	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
3-Feb	0.3	0.3	Z	0.8	0.9	0.4	0.4	0.5	0.4	0.3	0.2	C	C	C	C	C	C	0.0	0.0	0.0	0.0	0.0	0.2	0.5	--	0.9
4-Feb	0.3	0.3	0.4	Z	0.3	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.4	0.2	0.2	0.3	0.3	0.1	0.0	0.0	0.1	0.2	0.1	0.2	0.4
5-Feb	0.1	0.1	0.1	0.2	Z	0.4	0.4	0.3	0.3	0.5	1.5	1.1	1.4	0.9	0.7	0.3	0.2	0.1	0.2	0.2	0.1	0.1	0.3	0.1	0.4	1.5
6-Feb	0.4	0.3	0.2	0.2	0.1	Z	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.2	0.4	0.5	0.3	0.3	0.3	0.3	0.5
7-Feb	Z	0.3	0.1	0.0	0.1	0.3	0.3	0.2	0.3	0.1	0.2	0.2	0.4	0.3	0.4	0.3	0.3	0.3	0.6	0.7	0.7	0.5	0.4	0.3	0.3	0.7
8-Feb	0.3	Z	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.2	0.1	0.7	0.5	0.1	0.3	0.7
9-Feb	0.1	0.1	Z	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.5	0.7	0.7	0.4	0.1	0.1	0.0	0.0	0.0	0.5	0.3	0.3	0.2	0.7
10-Feb	0.1	0.1	0.1	Z	0.1	0.2	0.0	0.1	0.2	0.3	0.3	0.3	0.2	0.3	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.4
11-Feb	0.2	0.2	0.1	0.1	Z	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.0	0.1	0.2	0.3
12-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
13-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
14-Feb	0.2	Z	0.2	0.1	0.1	0.2	0.2	0.2	0.4	0.2	0.3	0.2	0.3	0.4	0.2	0.2	0.2	0.4	0.2	0.1	0.0	0.1	0.0	0.1	0.2	0.4
15-Feb	0.1	0.2	Z	0.1	0.3	0.1	0.0	0.1	0.0	0.1	0.2	0.2	0.3	0.7	0.3	0.3	0.1	0.7	0.5	0.6	0.9	0.8	0.5	0.4	0.3	0.9
16-Feb	0.5	0.4	0.3	Z	1.7	0.8	0.6	0.3	0.2	0.2	0.2	0.2	0.6	0.3	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.3	1.7
17-Feb	0.0	0.2	0.2	0.2	Z	0.4	0.7	0.5	0.5	0.5	0.6	0.8	0.6	0.3	0.4	1.8	1.7	1.5	1.5	1.6	1.5	1.6	1.0	0.7	0.8	1.8
18-Feb	1.0	1.7	1.9	1.5	1.3	Z	1.4	1.3	1.2	1.6	1.4	1.3	1.1	0.9	0.8	0.6	0.6	0.6	0.2	0.0	0.1	0.1	0.1	0.1	0.9	1.9
19-Feb	Z	0.0	0.1	0.0	0.2	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.4	0.3	0.4	1.3	0.2	1.3
20-Feb	1.6	Z	1.5	1.3	0.8	0.4	0.3	0.5	0.6	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.5	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.5	1.6
21-Feb	0.1	0.2	Z	0.9	0.8	0.9	1.6	2.5	3.2	4.3	3.5	2.7	2.2	1.8	0.9	0.6	0.8	0.5	0.3	0.4	0.5	0.3	0.1	0.2	1.3	4.3
22-Feb	0.2	0.2	0.3	Z	0.2	0.1	0.2	0.1	0.2	0.3	0.2	0.4	0.5	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.5
23-Feb	0.0	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.1	--	0.5
24-Feb	0.2	0.2	0.1	0.1	0.1	Z	0.4	0.3	0.5	0.5	0.5	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.5
25-Feb	Z	0.2	0.2	0.2	0.1	0.1	0.3	0.3	1.0	PF	0.4	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0
26-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	1.1	1.2	0.8	0.5	0.2	0.0	0.1	0.0	0.0	0.5	0.2	1.2
27-Feb	0.5	0.1	Z	0.0	0.0	0.0	1.4	0.8	1.0	0.3	0.5	0.2	0.3	0.1	0.1	0.3	0.3	0.4	0.3	0.0	0.7	0.6	0.0	0.0	0.3	1.4
28-Feb	0.1	0.1	0.0	Z	0.3	0.8	0.8	0.9	0.9	0.9	0.4	0.2	0.1	0.1	0.1	0.1	0.6	1.4	1.0	1.3	1.4	1.0	0.6	0.5	0.6	1.4
	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2	Diurnal Average	
	1.6	1.7	1.9	1.5	1.7	0.9	1.6	2.5	3.2	4.3	3.5	2.7	2.2	1.8	1.1	1.8	1.7	1.5	1.5	1.6	1.5	1.6	1.0	1.3	Diurnal Maximum	

Z - zerospan C - Calibration PF - Power Failure

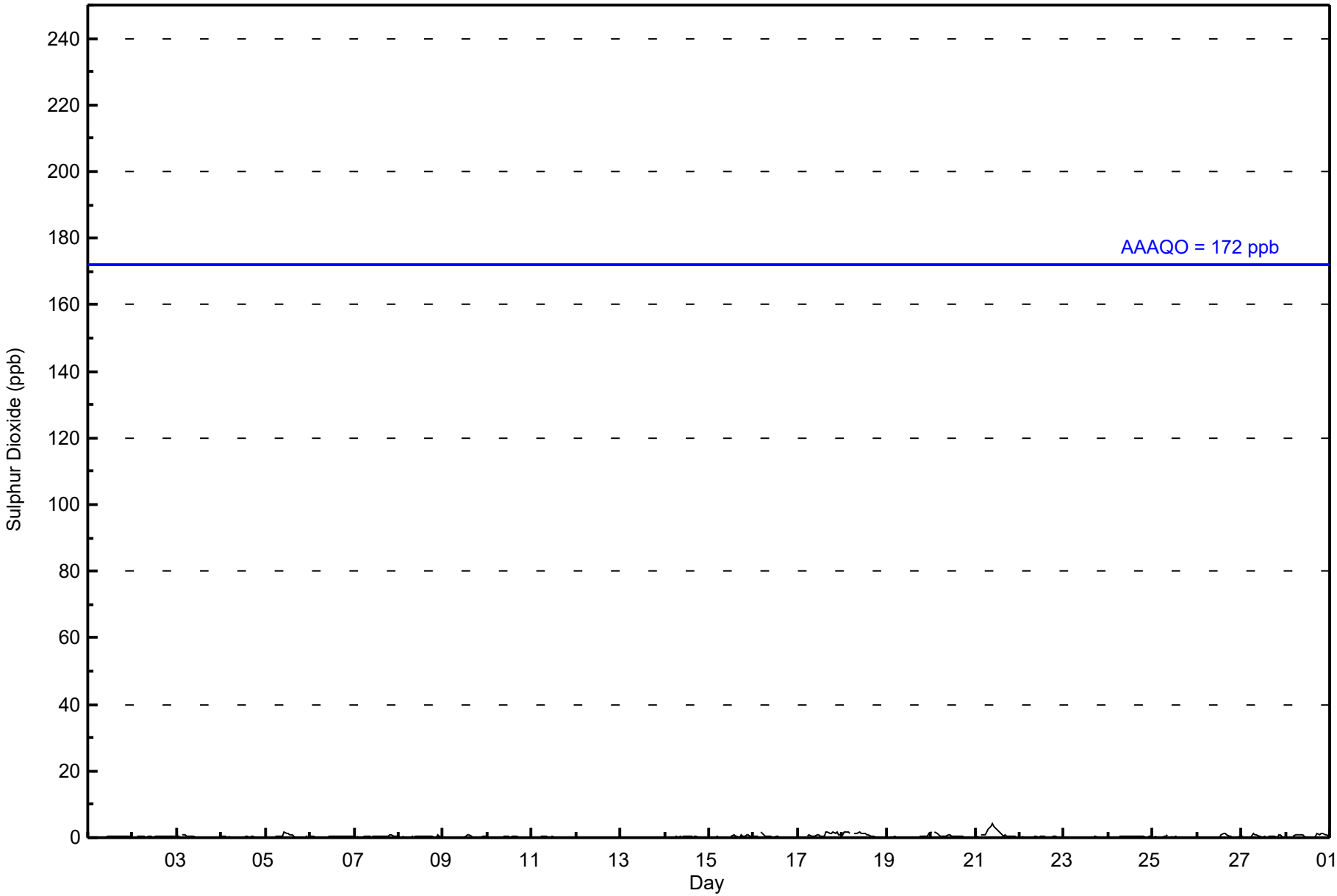
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Blackrod - February 2026



Sulphur Dioxide (SO_2) - ppb

Blackrod - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	623	100.00	100.00
11 - 20	0	0.00	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 623

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Blackrod - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	63	67	21	10	7	7	20	53	219	58	15	10	7	16	15	35	623
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	63	67	21	10	7	7	20	53	219	58	15	10	7	16	15	35	623

Total Number of Valid Hours: 623

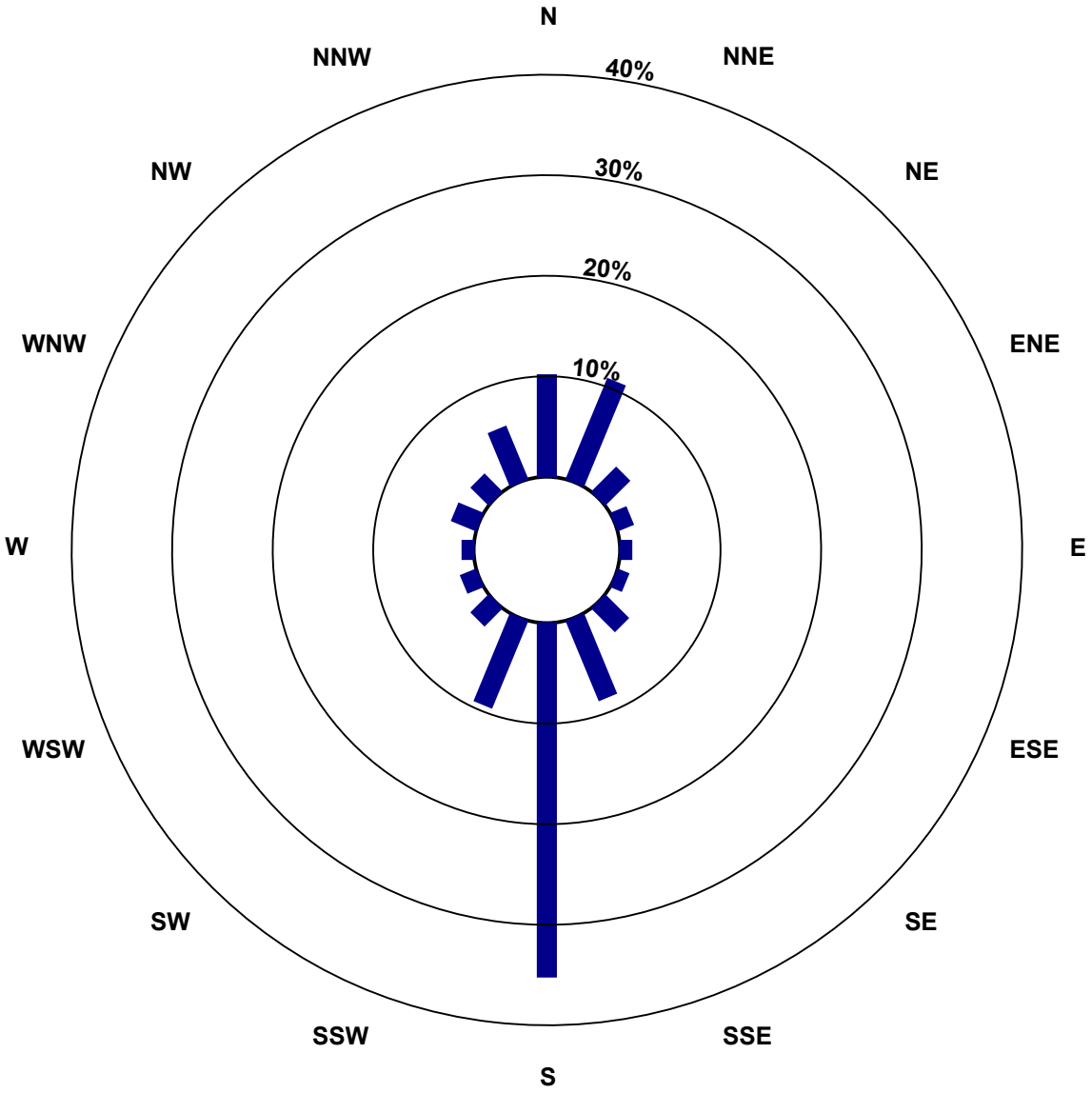
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Blackrod



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

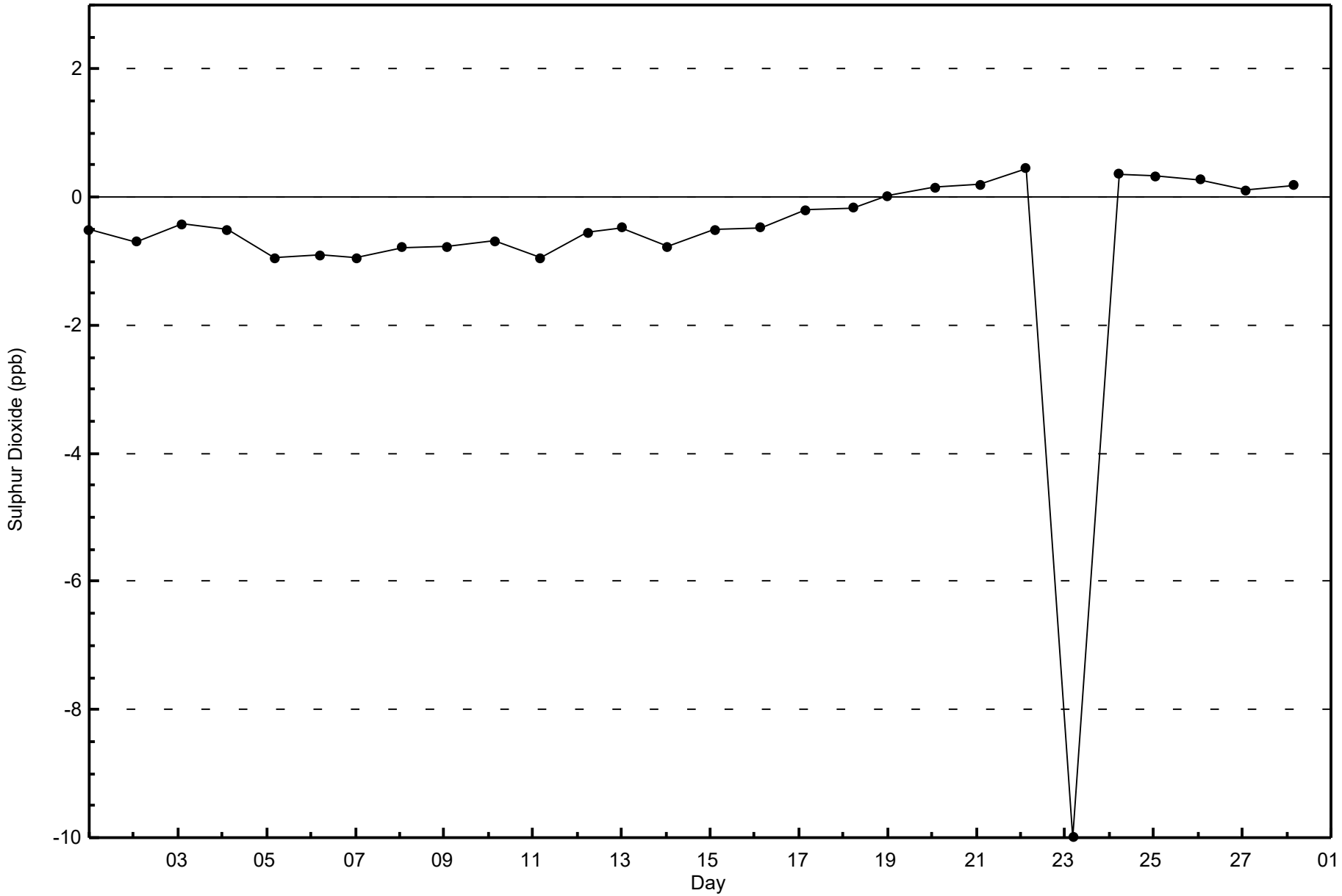
Total Number of Valid Hours: 623

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Blackrod - February 2026

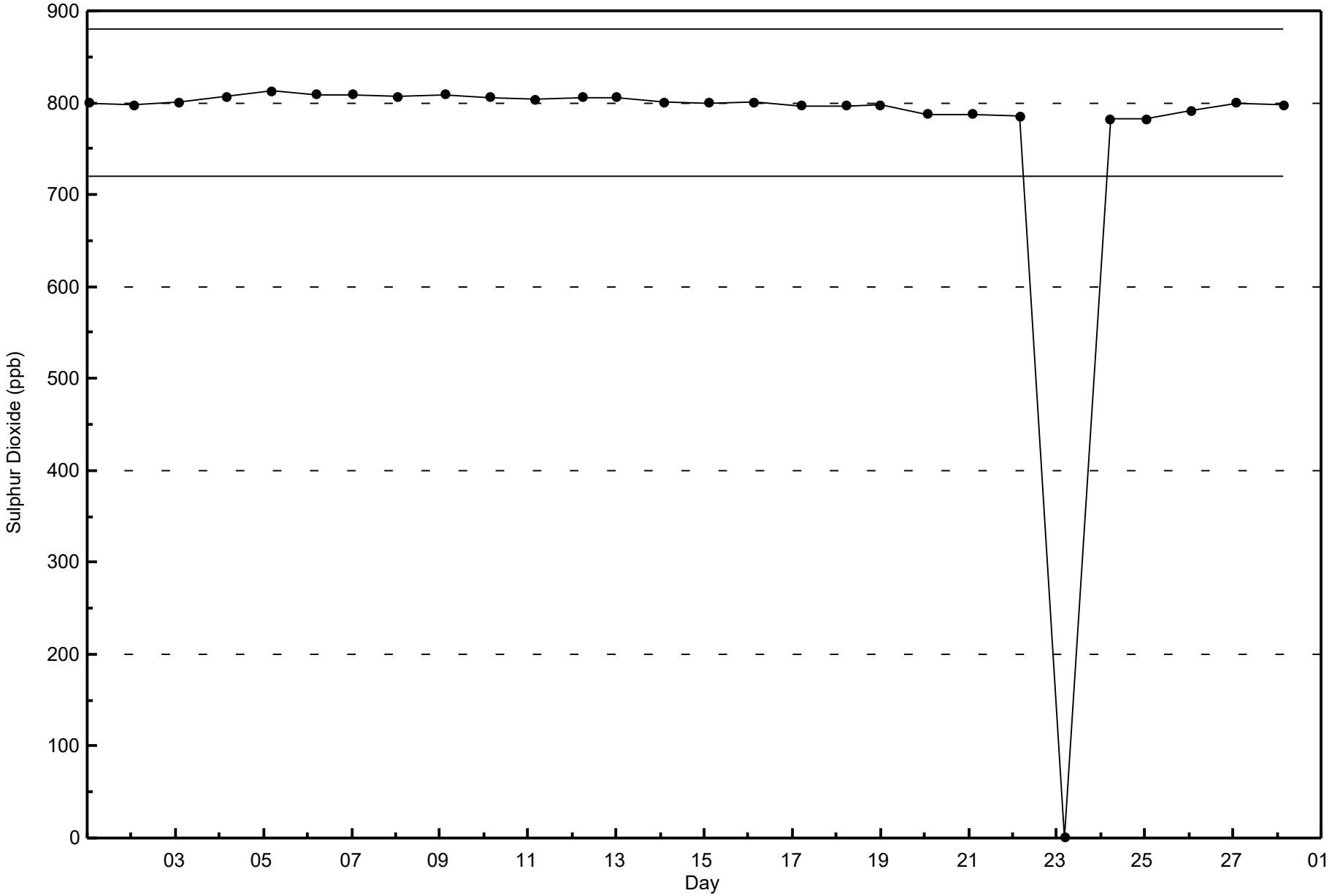


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Blackrod - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Blackrod - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 1.5 ppb on Feb 13 13:00 Maximum Daily Average: 0.4 ppb on Feb 18

Minimum Value: 0.0 ppb on Feb 13 20:00
Maximum Diurnal Average: 0.2 ppb at hour 13
Monthly Average: 0.18 ppb

Minimum Daily Average: 0.1 ppb on Feb 12
Minimum Diurnal Average: 0.1 ppb at hour 1
Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.1 Median = 0.1 Q_3 = 0.2 P_{90} = 0.3 P_{99} = 0.8

Hours in Service:	672
Hours of Data:	624
Hours of Missing Data:	48
Hours of Calibration:	32
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	Z	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
2-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.2
3-Feb	0.1	0.2	0.3	Z	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.3
4-Feb	0.0	0.0	0.1	0.0	Z	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.2	0.2	0.4	0.0	0.1	0.1	0.4	0.6	0.0	0.1	0.6
5-Feb	0.0	0.0	0.0	0.0	0.3	Z	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.4	0.1	0.2	0.4
6-Feb	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
7-Feb	0.1	Z	0.1	0.2	0.1	1.1	0.6	0.6	0.5	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.2	0.3	1.1
8-Feb	0.3	0.3	Z	0.3	0.2	0.2	0.1	0.1	0.1	0.4	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.2	0.4	0.2	0.1	0.2	0.4
9-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.1	0.3
10-Feb	0.3	0.3	0.3	0.3	Z	0.4	0.3	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
11-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
12-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C	C	C	C	C	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
13-Feb	0.1	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.7	1.5	0.2	0.4	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5
14-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.2	0.3	0.5	0.1	0.1	0.0	0.0	0.1	0.1	0.5
15-Feb	0.1	0.1	0.1	Z	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.4	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.4
16-Feb	0.2	0.2	0.3	0.2	Z	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
17-Feb	0.1	0.3	0.2	0.2	0.2	Z	0.4	0.3	0.2	0.4	0.3	0.6	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.6
18-Feb	Z	0.8	0.8	0.8	0.9	0.7	0.5	0.6	0.5	0.5	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.2	0.2	0.2	0.1	0.1	0.4	0.9
19-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
20-Feb	0.1	0.1	Z	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.3
21-Feb	0.2	0.2	0.3	Z	0.4	0.4	0.5	0.5	0.7	0.8	0.6	0.5	0.4	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.8
22-Feb	0.1	0.1	0.2	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
23-Feb	0.1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	0.9	0.3	0.2	0.2	0.1	0.2	0.2	0.1	--	0.9
24-Feb	Z	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
25-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.8	0.3	0.3	PF	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8
26-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.5
27-Feb	0.1	0.2	0.3	Z	0.4	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.4
28-Feb	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	Diurnal Average	
	0.3	0.8	0.8	0.8	0.9	1.1	0.8	0.6	0.7	0.8	0.6	0.7	1.5	0.4	0.4	0.3	0.9	0.5	0.5	0.3	0.4	0.4	0.6	0.4	Diurnal Maximum	

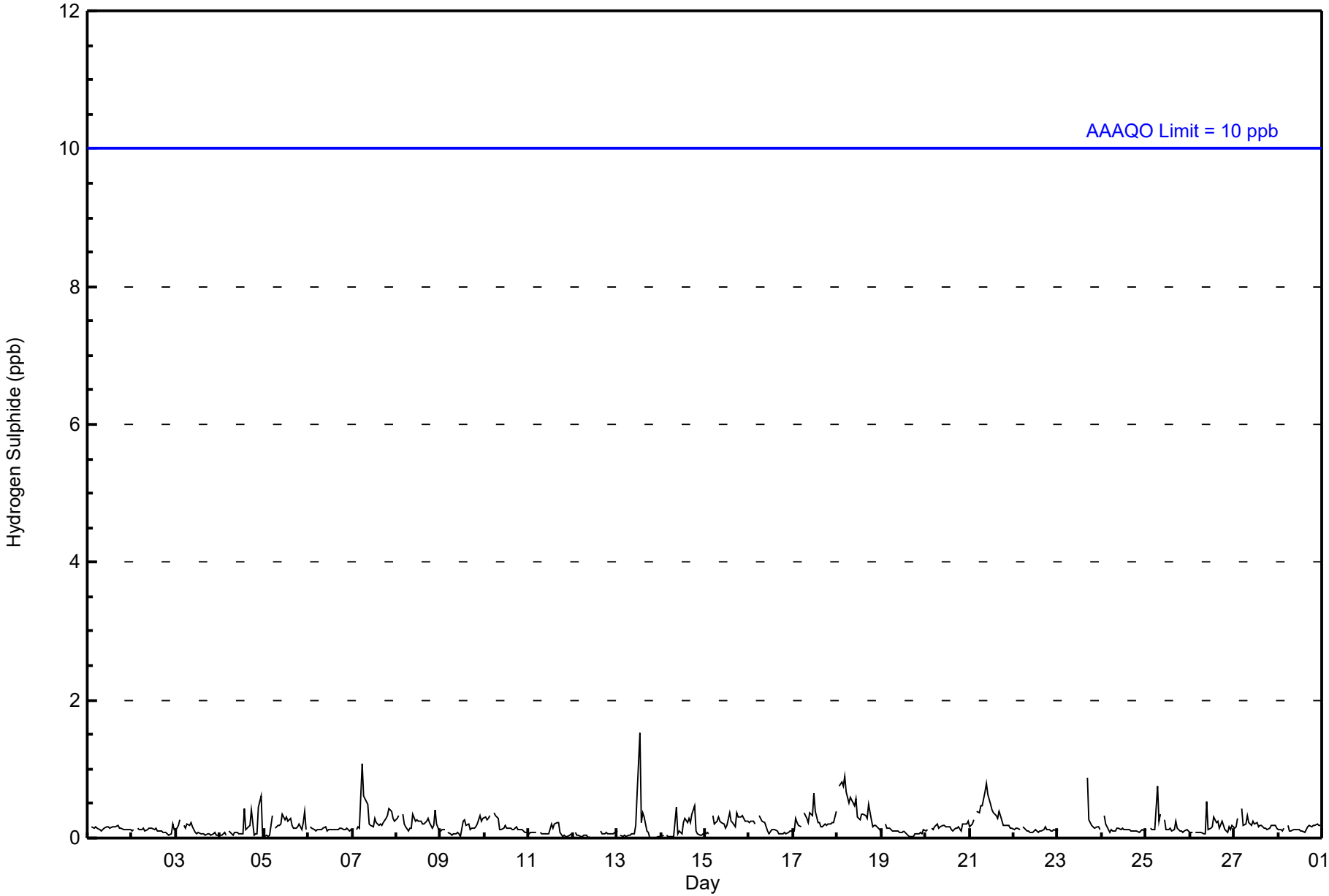
Z - zerospan C - Calibration PF - Power Failure
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Blackrod - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	624	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 624

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Blackrod - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	64	67	21	10	7	8	18	57	221	55	14	9	8	16	13	36	624
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	64	67	21	10	7	8	18	57	221	55	14	9	8	16	13	36	624

Total Number of Valid Hours: 624

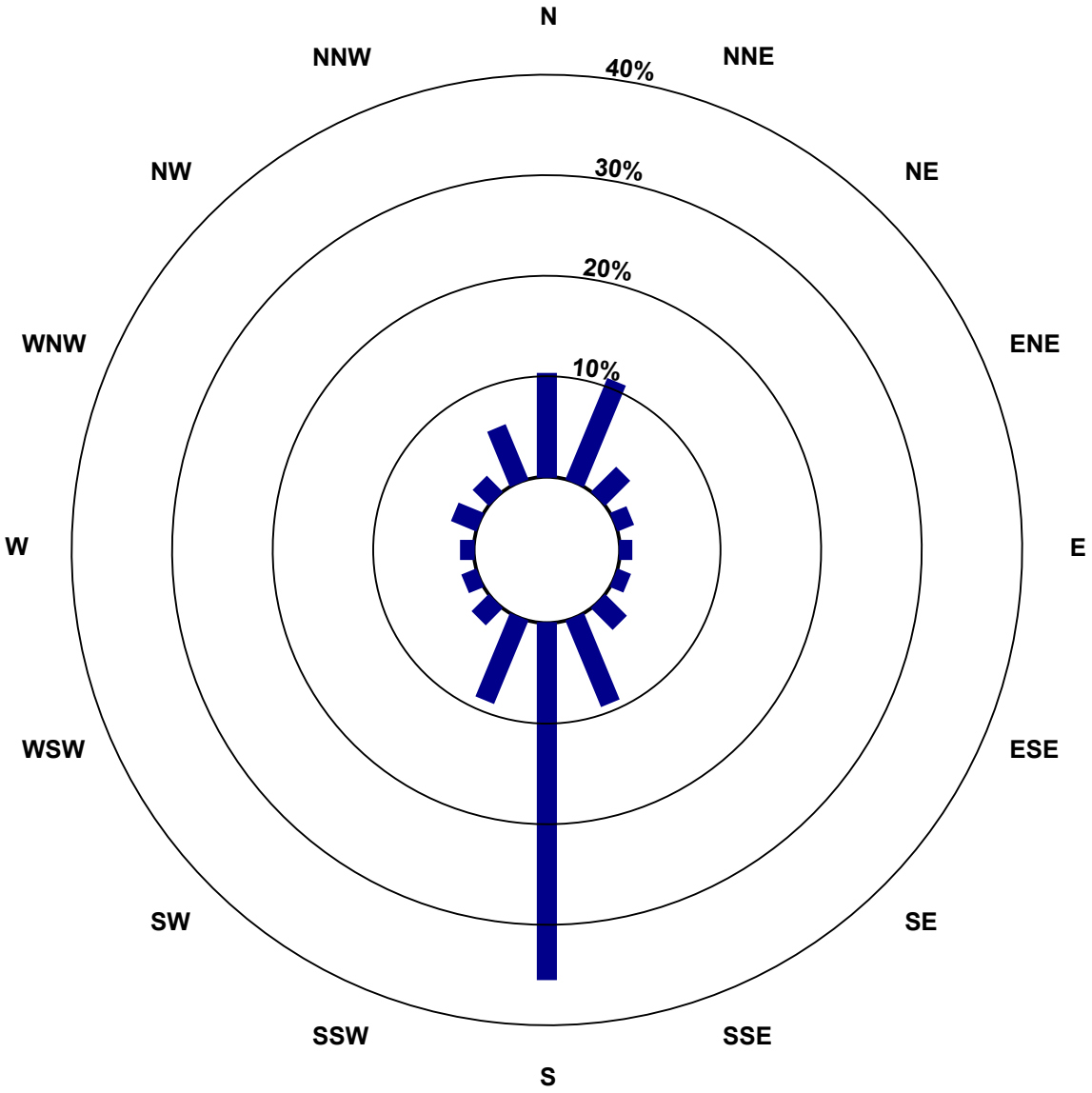
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Blackrod



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

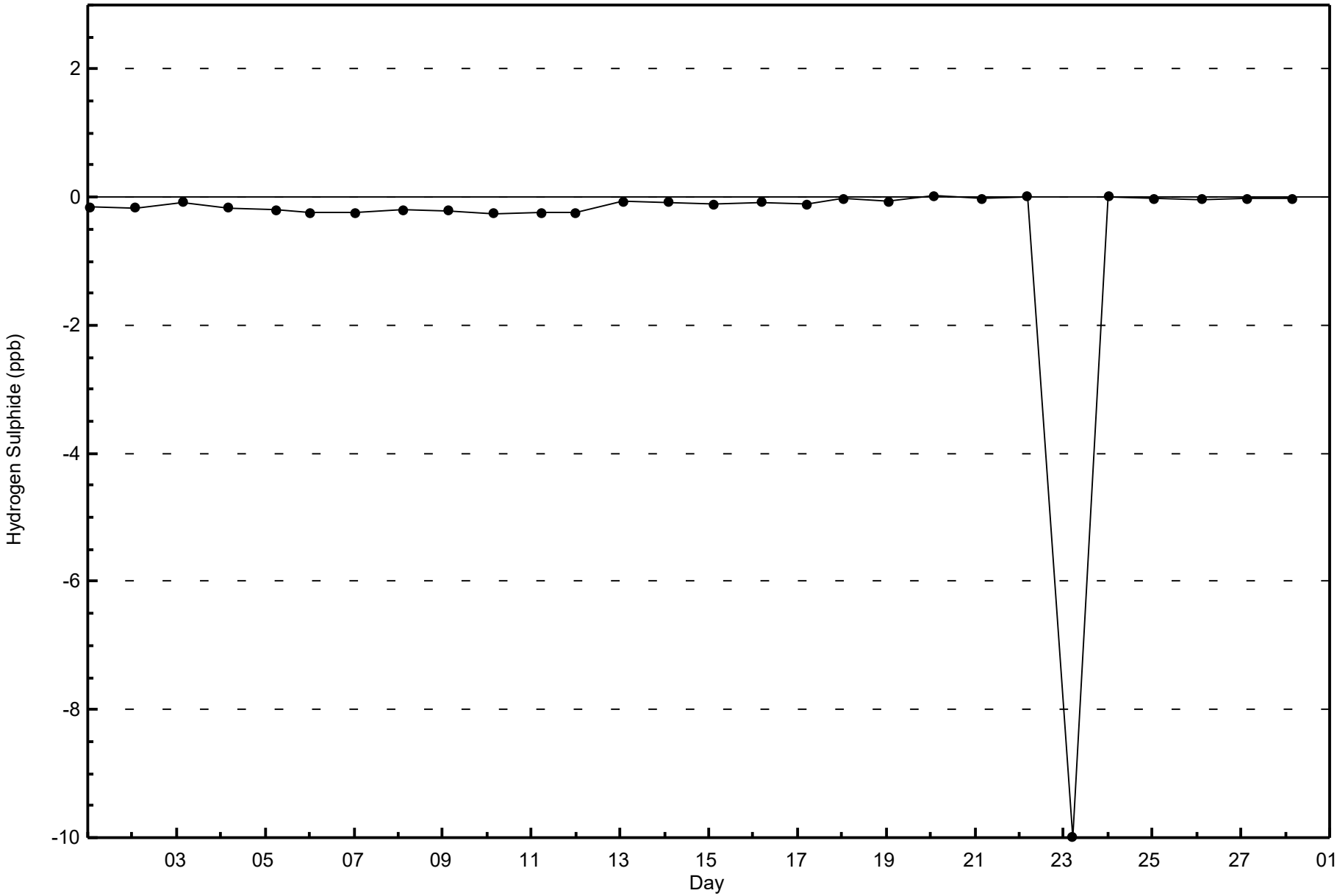
Total Number of Valid Hours: 624

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Blackrod - February 2026

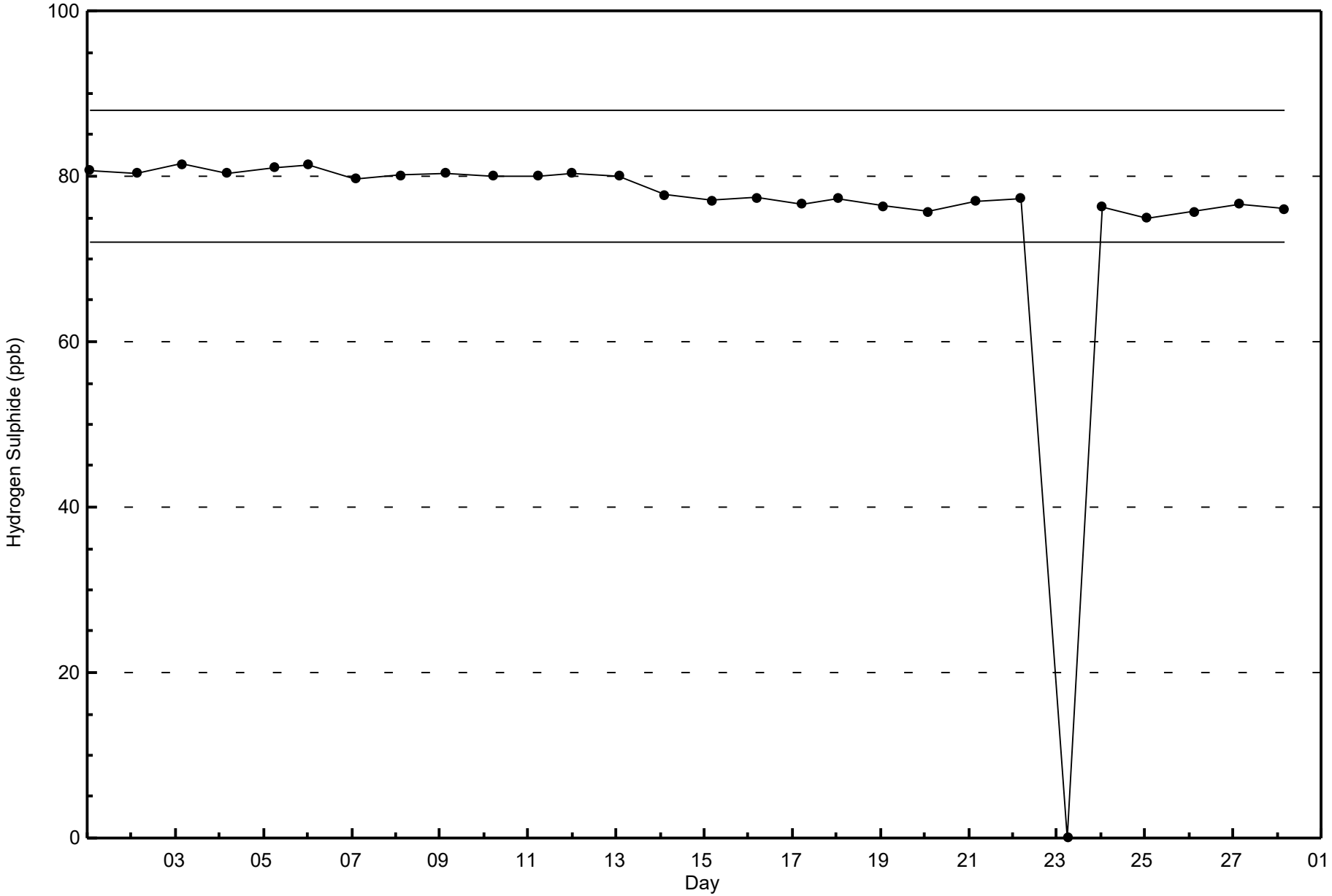


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Blackrod - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Blackrod - February 2026

Maximum Value: 15.9 ppm on Feb 7 06:00

Maximum Daily Average: 4.3 ppm on Feb 7

Minimum Value: 2.0 ppm on Feb 22 23:00

Minimum Daily Average: 2.2 ppm on Feb 22

Maximum Diurnal Average: 3.5 ppm at hour 6

Minimum Diurnal Average: 2.5 ppm at hour 20

Monthly Average: 2.76 ppm

Percentiles: P_1 = 2.1 P_{10} = 2.2 Q_1 = 2.3 Median = 2.4 Q_3 = 2.7 P_{90} = 3.6 P_{99} = 6.9

Hours in Service:	588
Hours of Data:	545
Hours of Missing Data:	43
Hours of Calibration:	27
Percent Operational Time:	97.3

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
2-Feb	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
3-Feb	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
4-Feb	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	C	C	C	C	2.2	5.0	2.9	2.4	3.4	4.2	4.3	2.4	--	5.0
5-Feb	2.3	2.3	2.5	2.5	Z	2.3	2.3	2.3	2.6	2.8	2.6	3.7	2.6	2.9	2.9	2.6	2.4	2.5	2.4	3.5	2.6	4.3	6.1	2.5	2.8	6.1
6-Feb	3.0	3.5	2.4	2.4	2.5	Z	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.5	2.5	2.4	2.7	2.5	2.4	2.4	2.4	2.8	2.5	3.5
7-Feb	Z	2.6	2.6	3.1	3.7	15.9	9.0	7.1	6.3	3.1	2.9	2.8	3.1	3.9	2.6	3.5	2.5	2.5	2.5	2.8	5.6	5.3	3.0	3.0	4.3	15.9
8-Feb	4.0	Z	4.8	4.6	2.8	3.2	2.4	2.8	2.8	3.0	2.7	2.4	3.0	3.8	3.1	2.3	2.3	2.7	4.2	2.6	2.9	2.6	2.9	2.4	3.0	4.8
9-Feb	2.3	2.5	Z	2.3	2.3	2.4	2.4	2.5	2.4	2.4	2.3	2.4	3.1	2.5	2.6	3.6	2.4	2.4	2.3	2.4	2.4	4.0	2.5	2.8	2.6	4.0
10-Feb	4.4	3.4	3.6	Z	3.2	3.8	3.8	3.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.6	2.4	2.4	2.4	2.8	4.4
11-Feb	2.5	2.4	2.4	2.3	Z	2.3	2.3	2.3	2.4	2.3	2.3	2.5	4.0	3.8	4.1	4.1	4.6	3.0	2.7	2.4	2.3	2.4	2.4	2.5	2.8	4.6
12-Feb	3.1	3.0	2.5	2.3	2.3	Z	2.2	2.2	2.2	2.4	2.3	2.3	2.9	3.1	2.7	2.3	2.3	2.3	2.3	2.3	2.3	3.2	3.2	3.5	2.6	3.5
13-Feb	Z	2.4	2.4	2.4	2.5	2.5	2.5	2.4	2.4	3.5	4.7	8.1	2.6	2.6	3.5	3.7	3.9	3.3	2.5	2.3	2.3	2.2	2.2	2.2	3.0	8.1
14-Feb	2.3	Z	2.2	2.2	2.7	2.5	2.4	2.5	3.1	2.4	2.4	2.4	3.1	2.7	2.4	2.7	2.3	2.3	4.3	2.5	2.3	2.3	2.2	2.3	2.5	4.3
15-Feb	2.4	2.4	Z	3.0	7.4	4.0	3.0	5.2	6.6	4.8	3.0	2.7	3.6	2.6	2.4	2.3	2.4	4.4	2.6	2.4	2.4	2.4	2.4	2.4	3.3	7.4
16-Feb	2.4	2.4	2.4	Z	2.3	2.4	2.1	3.0	2.8	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.3	2.2	2.3	2.2	2.3	2.3	2.3	2.3	3.0
17-Feb	2.3	2.4	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.3	2.5
18-Feb	2.4	2.5	2.6	2.6	2.5	Z	2.6	2.5	2.5	2.6	2.5	2.7	2.6	2.7	2.5	2.7	2.8	4.0	2.6	2.2	2.3	2.4	2.2	2.2	2.6	4.0
19-Feb	Z	2.2	2.4	2.4	2.3	2.3	2.4	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.5
20-Feb	2.4	Z	2.4	2.6	2.6	2.9	2.8	2.6	2.5	2.4	2.4	2.5	2.5	2.5	2.9	3.1	3.4	2.6	2.3	2.3	2.4	2.4	2.4	2.5	2.6	3.4
21-Feb	2.5	3.2	Z	2.5	2.5	2.5	3.6	2.6	3.6	2.8	2.6	2.4	2.7	2.9	2.6	2.6	2.8	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.6	3.6
22-Feb	2.3	2.3	2.3	Z	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.2	2.3
23-Feb	2.0	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	2.8	2.4	2.8	3.6	2.5	2.8	2.6	2.6	--	3.6
24-Feb	3.2	5.8	3.8	3.2	2.3	Z	2.3	2.4	2.4	2.4	2.3	2.5	3.2	2.5	2.6	2.6	2.6	2.4	2.2	2.2	2.2	2.2	2.3	2.2	2.7	5.8
25-Feb	Z	2.3	2.3	2.4	2.6	2.6	5.8	2.5	2.4	PF	3.2	2.3	2.3	3.5	3.0	2.9	5.3	3.2	2.2	2.2	2.2	2.4	3.7	2.3	2.9	5.8
26-Feb	2.2	Z	2.3	2.2	2.4	2.3	2.7	2.5	2.5	5.0	2.8	2.2	2.4	3.4	2.7	3.2	2.6	2.3	2.2	2.4	2.3	2.3	3.6	4.2	2.7	5.0
27-Feb	3.7	5.2	Z	5.0	12.0	6.4	2.4	4.2	3.1	3.2	2.5	2.4	2.7	2.6	2.5	2.6	2.6	2.3	2.2	2.2	2.2	2.4	2.2	2.3	3.4	12.0
28-Feb	2.3	2.3	2.2	Z	2.6	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.4	2.3	2.3	2.4	2.4	2.4	2.3	2.6
	2.7	2.9	2.7	2.8	3.3	3.5	3.0	2.9	2.9	2.8	2.6	2.7	2.7	2.8	2.7	2.7	2.7	2.7	2.6	2.5	2.5	2.7	2.7	2.5	Diurnal Average	
	4.4	5.8	4.8	5.0	12.0	15.9	9.0	7.1	6.6	5.0	4.7	8.1	4.0	3.9	4.1	4.1	5.3	5.0	4.3	3.6	5.6	5.3	6.1	4.2	Diurnal Maximum	

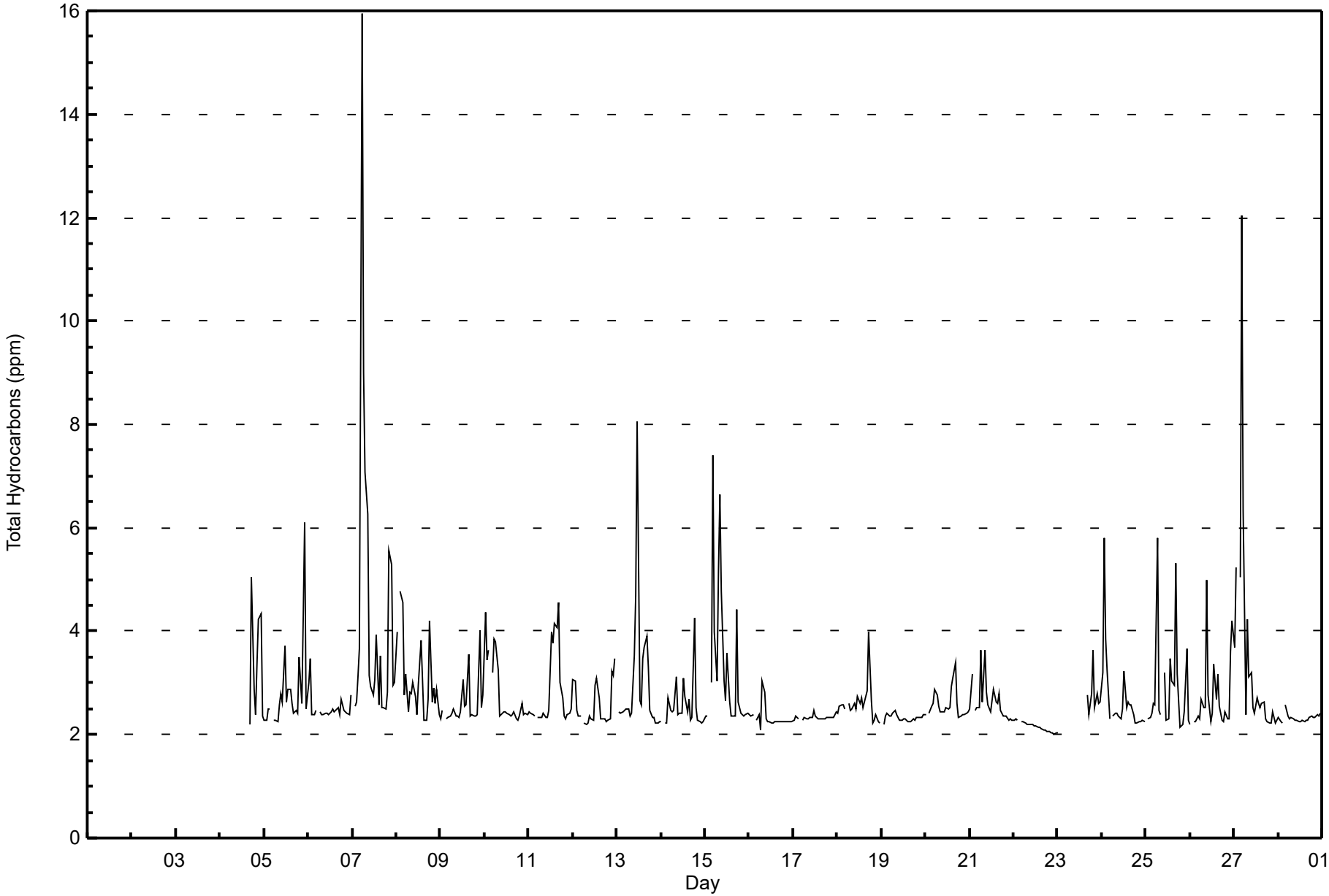
Z - zerospan C - Calibration PF - Power Failure NS - Not in Service

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Blackrod - February 2026



Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	6	1.10	1.10
2.1 - 3.0	443	81.28	82.39
3.1 - 10.0	94	17.25	99.63
> 10.0	2	0.37	100.00

Total Number of Valid Hours: 545

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Blackrod - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	0	0	0	0	0	0	1	4	1	0	0	0	0	0	0	0	6
2.1 - 3.0	36	62	19	10	7	6	18	44	155	40	2	0	0	14	11	19	443
3.1 - 10.0	21	4	2	0	0	1	0	0	6	16	13	10	6	0	2	13	94
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Totals	57	66	21	10	7	7	19	48	162	56	15	10	6	14	14	33	545

Total Number of Valid Hours: 545

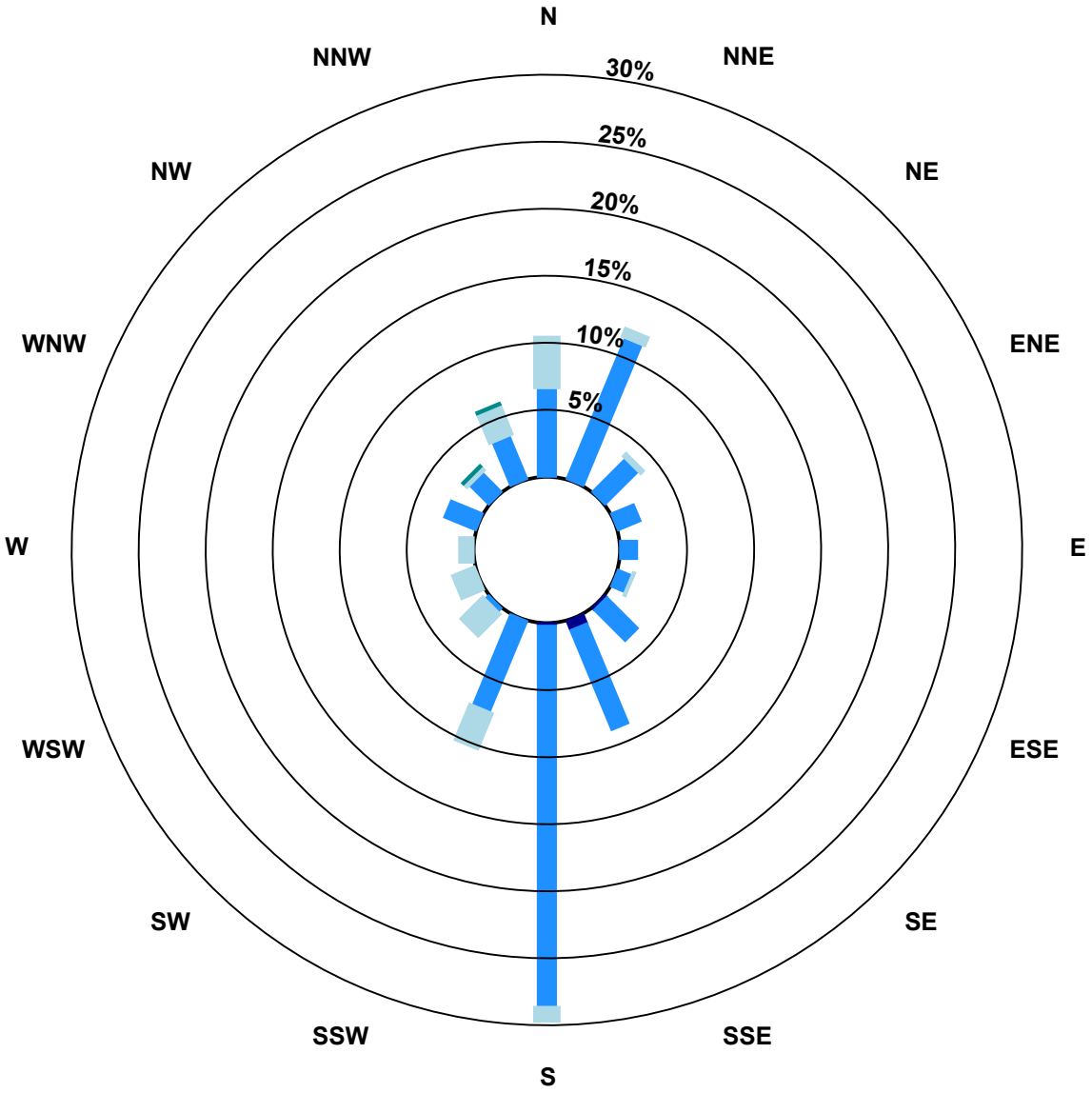
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Blackrod



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

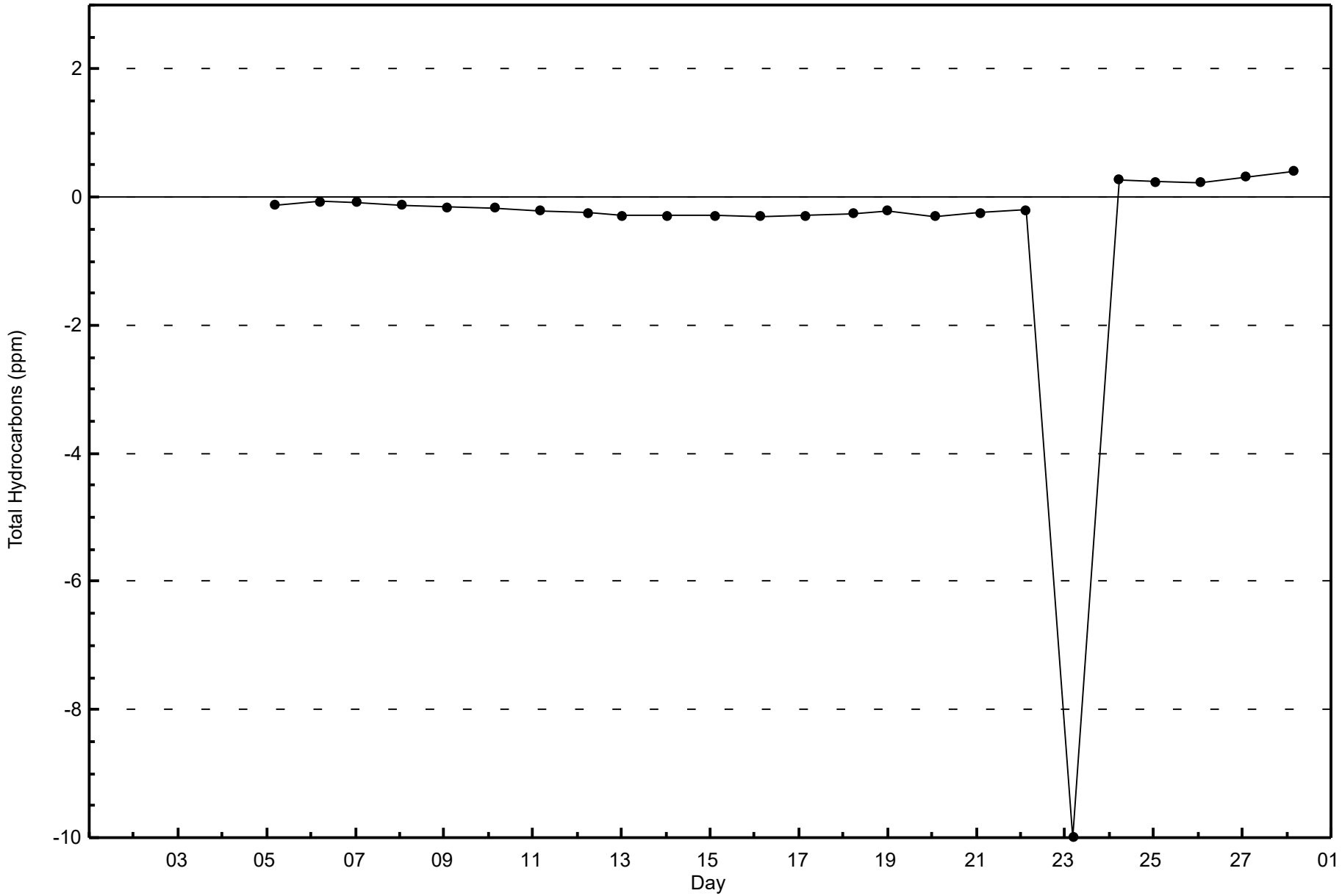
Total Number of Valid Hours: 545

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Blackrod - February 2026

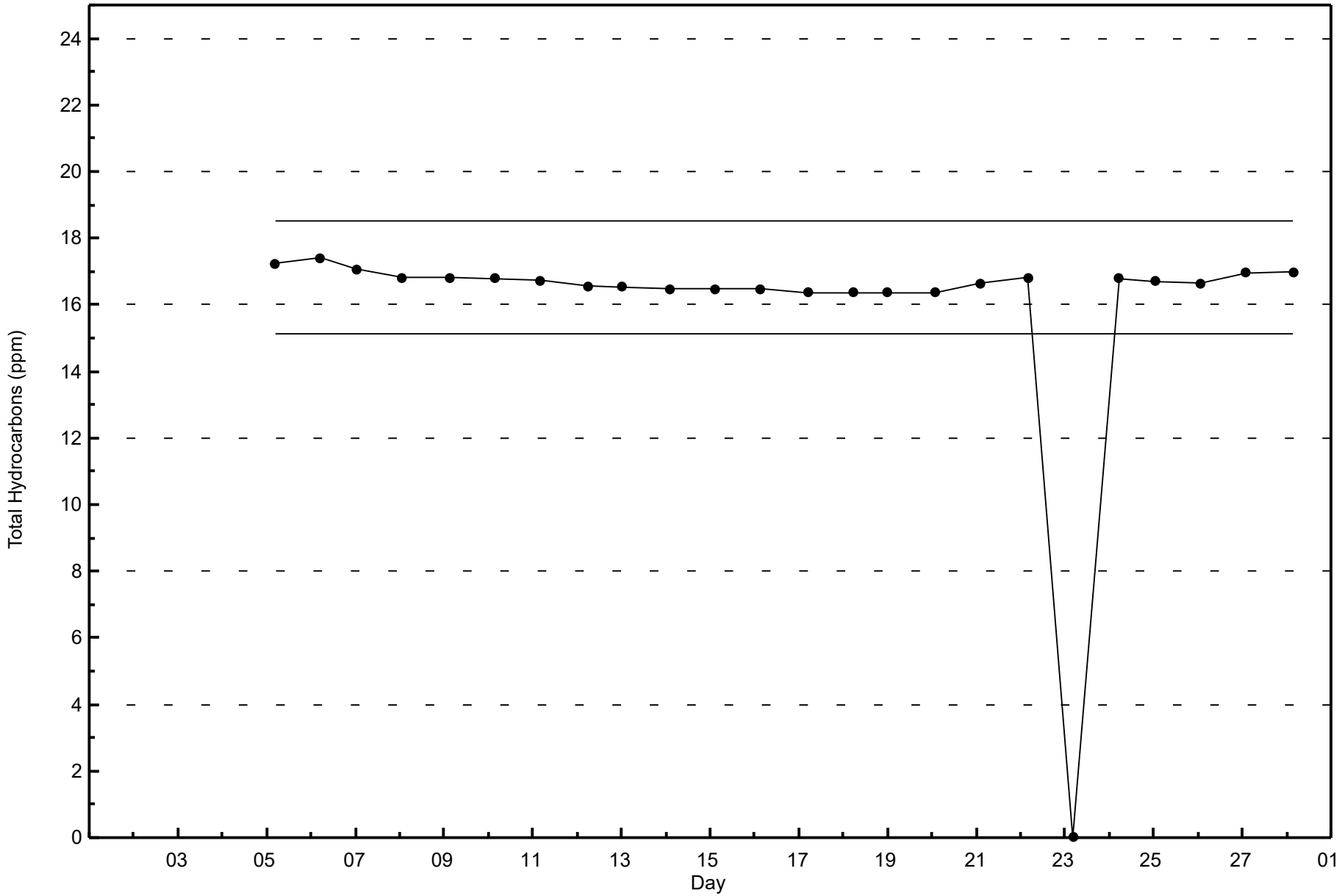


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Blackrod - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxide (NO) - ppb

Blackrod - February 2026

Maximum Value: 42.6 ppb on Feb 18 11:00

Maximum Daily Average: 19.7 ppb on Feb 18

Minimum Value: 0.0 ppb on Feb 1 21:00

Minimum Daily Average: 0.2 ppb on Feb 11

Maximum Diurnal Average: 6.2 ppb at hour 9

Minimum Diurnal Average: 0.8 ppb at hour 1

Monthly Average: 3.73 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.2 Median = 0.8 Q_3 = 4.7 P_{90} = 11.4 P_{99} = 31.1

Hours in Service:	672
Hours of Data:	625
Hours of Missing Data:	47
Hours of Calibration:	31
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	1.8	0.3	0.1	Z	0.0	0.4	0.0	0.0	0.2	0.4	0.5	0.4	0.4	0.5	0.7	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.3	1.8
2-Feb	0.1	0.0	0.0	0.0	0.1	Z	0.2	0.4	0.4	2.1	2.7	0.5	0.6	0.8	0.6	0.7	0.4	0.7	0.1	0.0	0.7	0.3	4.0	1.0	0.7	4.0
3-Feb	Z	3.2	18.7	6.3	4.5	2.8	3.1	6.8	11.2	10.7	0.7	0.3	0.7	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.0	0.0	0.0	3.1	18.7
4-Feb	0.0	Z	0.0	0.0	0.1	0.1	0.1	0.0	4.6	4.5	1.0	0.8	0.9	9.8	8.5	15.8	15.1	7.0	0.1	0.4	0.4	6.4	1.9	0.0	3.4	15.8
5-Feb	0.0	0.0	Z	0.0	13.4	14.2	9.5	14.4	17.5	6.8	10.7	7.8	13.9	7.0	9.5	3.5	1.4	1.7	2.2	0.5	0.4	0.4	1.4	0.0	5.9	17.5
6-Feb	0.0	0.3	0.0	Z	0.2	0.0	0.0	0.1	0.2	0.6	0.9	1.0	1.1	1.1	1.7	0.8	1.4	3.4	0.3	0.1	0.0	0.0	0.0	0.2	0.6	3.4
7-Feb	0.3	0.2	0.2	2.1	Z	9.5	21.7	18.5	20.9	5.9	7.1	6.7	19.1	7.2	8.7	6.8	5.0	5.9	7.3	4.0	3.3	5.0	5.4	5.8	7.7	21.7
8-Feb	4.3	5.5	4.1	0.2	0.5	Z	0.1	0.4	0.4	14.6	8.0	11.2	8.0	2.9	4.7	9.2	15.3	16.0	2.8	3.1	6.2	23.9	5.6	1.5	6.5	23.9
9-Feb	Z	0.8	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.9	0.5	0.8	11.6	16.9	11.9	8.2	1.4	2.7	1.4	2.5	3.5	5.3	3.8	5.7	3.4	16.9
10-Feb	0.5	Z	2.6	1.8	0.7	6.0	3.1	9.1	0.6	0.8	1.6	1.0	1.1	1.2	1.2	0.7	0.4	3.4	0.2	0.4	1.1	0.1	0.1	0.2	1.7	9.1
11-Feb	0.0	0.2	Z	0.1	0.0	0.1	0.1	0.1	0.3	0.2	0.3	C	C	C	C	0.8	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2
12-Feb	0.0	0.0	0.0	Z	0.0	0.1	0.6	1.0	0.4	1.4	0.4	0.4	0.5	0.4	0.2	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.3	1.4
13-Feb	0.1	0.0	0.0	0.0	Z	0.0	0.1	0.2	0.8	0.3	2.6	6.7	8.9	9.4	8.7	5.3	0.7	0.2	0.1	0.1	0.2	0.0	0.0	0.0	1.9	9.4
14-Feb	0.0	0.0	1.2	0.0	0.0	Z	0.1	0.3	22.3	0.4	1.9	0.7	8.3	12.3	9.4	11.5	14.0	21.6	9.1	0.5	1.9	0.3	0.0	0.2	5.0	22.3
15-Feb	Z	0.0	0.1	1.0	2.2	2.9	6.9	4.8	1.6	2.6	5.8	3.5	4.6	19.0	8.1	6.3	0.8	7.4	5.2	2.1	0.2	0.0	0.2	0.1	3.7	19.0
16-Feb	0.0	Z	2.9	0.5	0.7	8.2	6.0	3.1	4.2	2.9	2.7	1.1	2.0	1.8	3.9	1.3	0.7	0.8	0.7	0.5	0.2	0.1	0.1	0.2	1.9	8.2
17-Feb	0.3	6.5	Z	1.9	1.4	4.9	12.2	13.4	10.8	20.9	17.5	37.6	24.5	11.6	10.0	3.5	4.2	2.6	2.9	4.1	4.7	5.8	6.1	15.1	9.7	37.6
18-Feb	11.3	21.4	25.9	Z	36.0	39.6	25.9	34.0	32.5	30.1	42.6	16.3	13.8	22.1	20.9	17.9	12.3	31.4	8.0	4.3	1.0	0.5	2.4	3.3	19.7	42.6
19-Feb	0.0	0.0	0.7	0.1	Z	0.3	0.2	0.5	0.6	0.5	0.7	0.9	0.9	1.3	0.7	0.4	0.2	0.4	0.2	0.1	0.1	0.0	0.1	0.1	0.4	1.3
20-Feb	0.1	0.0	0.0	0.2	0.3	Z	4.4	0.5	1.6	4.8	4.4	3.9	3.8	4.2	2.6	1.8	1.7	1.7	1.3	1.0	1.7	2.7	1.3	2.6	2.0	4.8
21-Feb	Z	2.7	3.6	0.6	0.7	4.4	7.8	9.2	16.0	25.5	16.8	13.3	11.9	9.5	13.2	6.0	10.1	9.7	2.1	0.6	0.5	0.4	0.6	0.3	7.2	25.5
22-Feb	0.2	Z	0.4	0.1	0.1	0.1	0.0	0.4	0.3	0.5	0.4	0.3	0.3	0.4	0.5	0.4	0.3	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.3	1.4
23-Feb	0.0	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	11.1	12.1	4.6	0.9	2.7	2.4	2.1	0.2	--	12.1
24-Feb	0.1	3.2	2.2	Z	0.5	0.9	0.5	0.5	1.1	1.5	1.6	1.4	1.4	1.0	0.8	0.4	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.8	3.2
25-Feb	0.0	0.0	0.0	0.0	Z	0.1	8.4	11.8	11.2	PF	9.9	0.6	0.7	1.1	0.6	0.7	1.2	0.6	0.4	0.1	0.1	0.6	0.1	0.2	2.2	11.8
26-Feb	0.0	0.2	0.1	0.1	0.1	Z	0.6	0.5	0.8	5.1	1.5	10.0	9.0	8.7	5.0	7.6	4.7	15.3	10.8	4.2	4.0	6.3	0.8	4.2	4.3	15.3
27-Feb	Z	0.1	17.0	10.5	1.0	1.1	9.4	14.0	7.1	6.1	15.3	12.2	13.0	8.3	9.3	7.3	4.5	4.8	1.9	0.7	2.7	1.1	1.3	1.2	6.5	17.0
28-Feb	0.0	Z	0.3	0.0	0.1	0.3	0.1	0.3	0.4	0.7	0.9	0.8	0.7	0.6	0.7	0.8	1.2	0.8	0.1	0.0	0.1	0.1	0.1	0.2	0.4	1.2
	0.8	2.1	3.3	1.1	2.8	4.3	4.5	5.3	6.2	5.8	5.9	5.4	6.2	6.1	5.5	4.4	3.9	5.5	2.2	1.1	1.3	2.2	1.3	1.5	Diurnal Average	
	11.3	21.4	25.9	10.5	36.0	39.6	25.9	34.0	32.5	30.1	42.6	37.6	24.5	22.1	20.9	17.9	15.3	31.4	10.8	4.3	6.2	23.9	6.1	15.1	Diurnal Maximum	

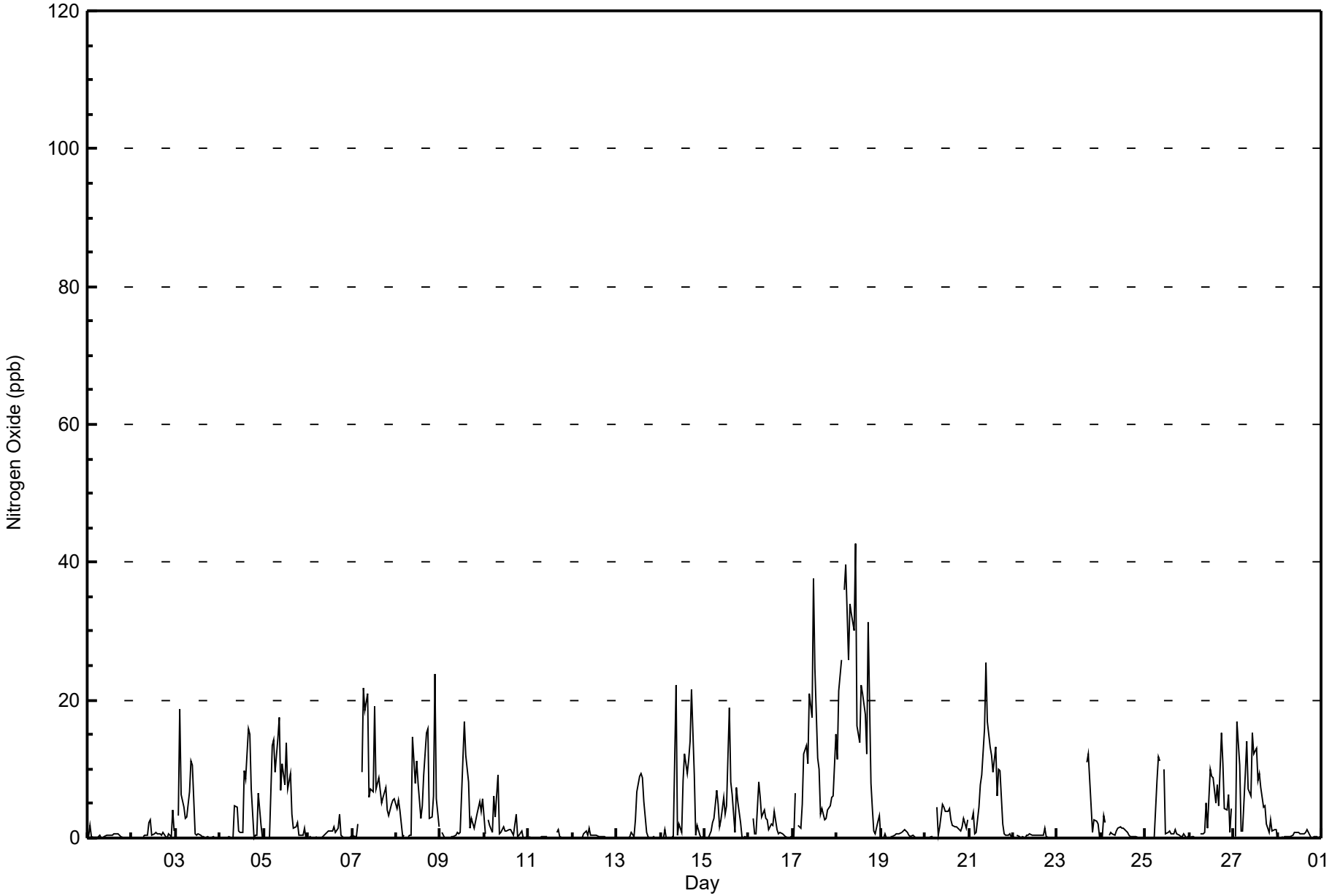
Z - zerospan C - Calibration PF - Power Failure

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxide (NO) - ppb

Blackrod - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	604	96.64	96.64
21 - 40	20	3.20	99.84
11 - 80	1	0.16	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 625

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxide (NO) - ppb

Blackrod - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	48	65	21	9	7	8	19	61	222	50	14	8	8	16	15	33	604
21 - 40	14	2	0	0	0	0	0	0	1	0	0	0	0	1	0	2	20
11 - 80	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	63	67	21	9	7	8	19	61	223	50	14	8	8	17	15	35	625

Total Number of Valid Hours: 625

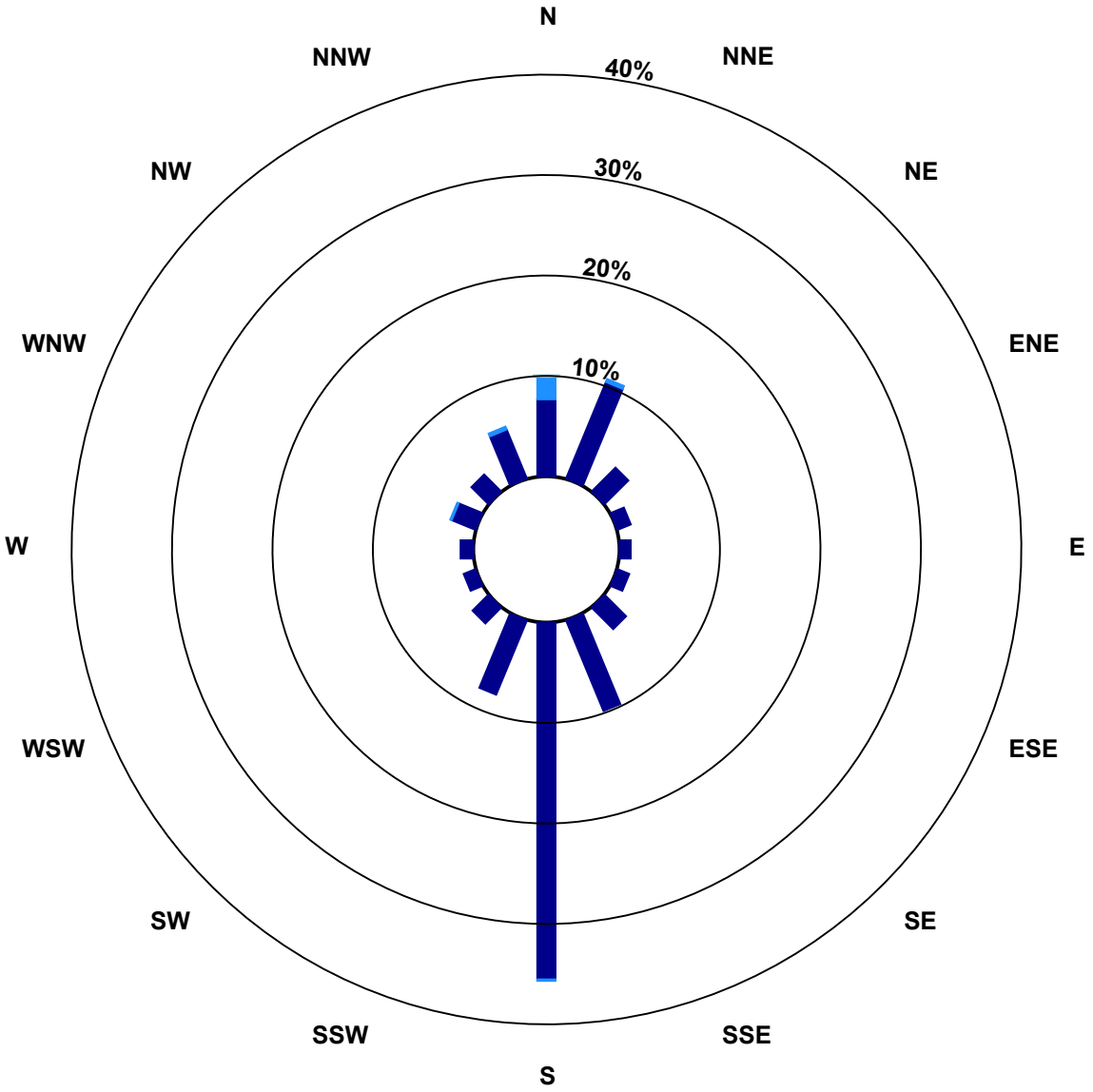
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxide (NO) - ppb

Blackrod



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

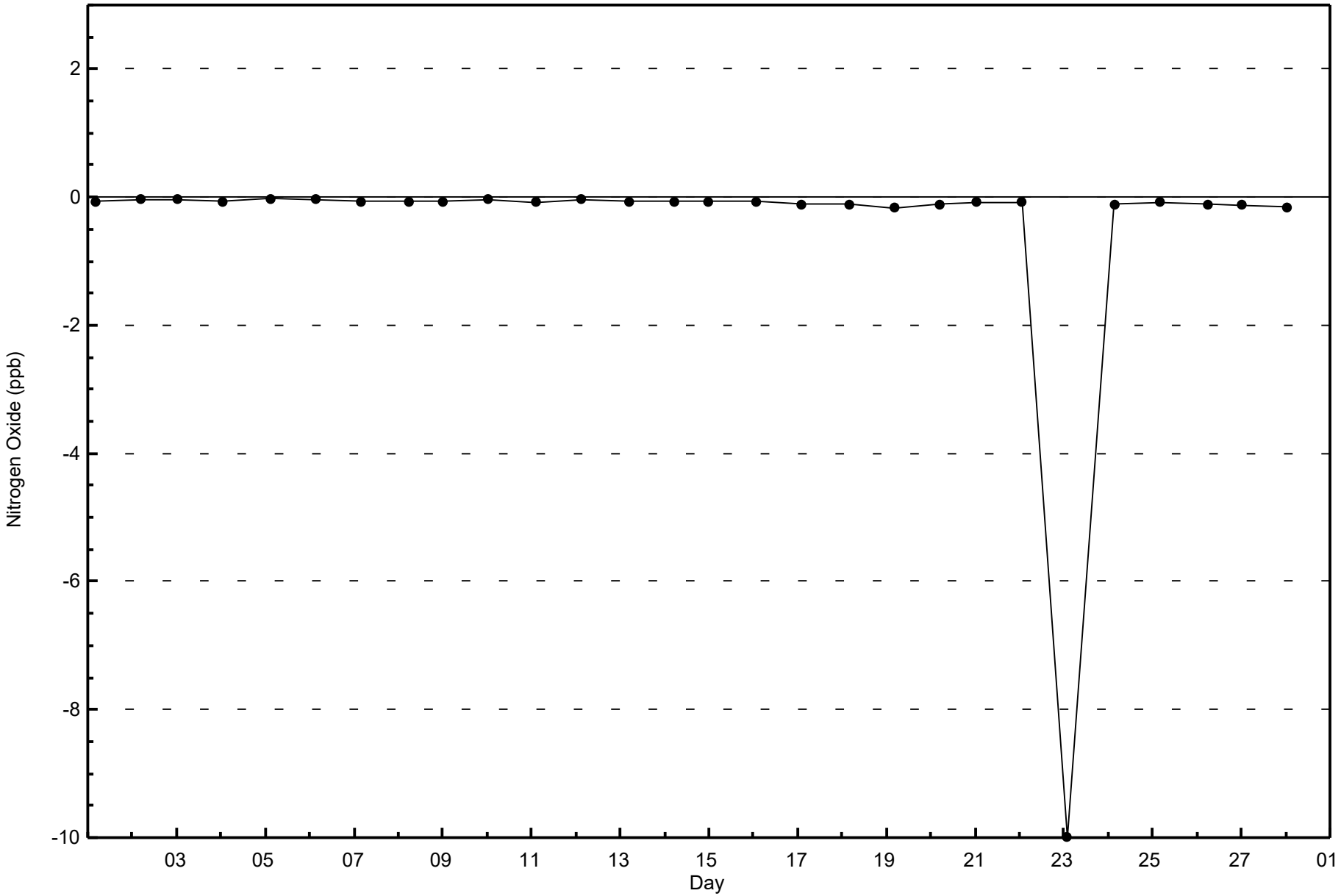
Total Number of Valid Hours: 625

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxide (NO) - ppb

Blackrod - February 2026

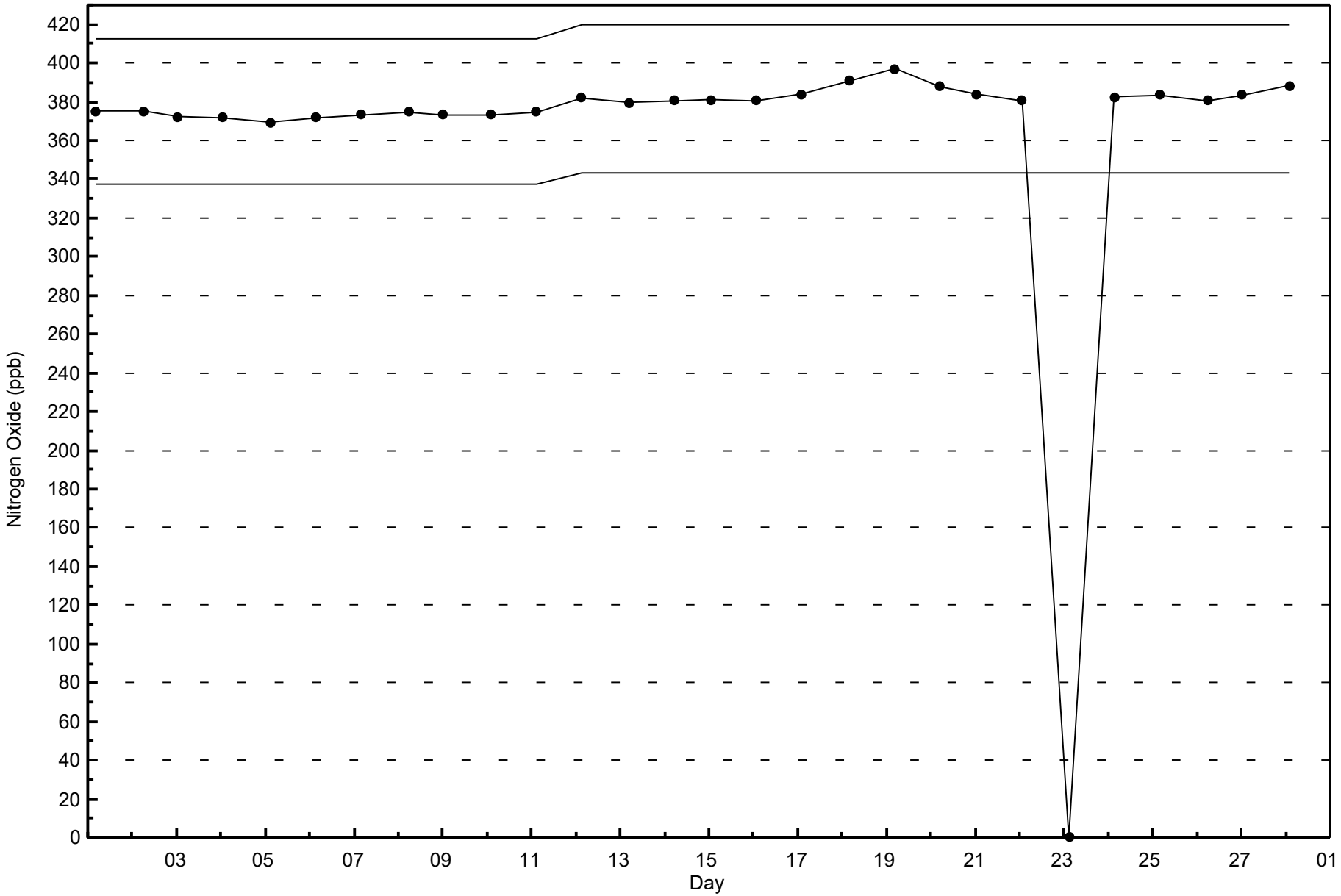


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxide (NO) - ppb

Blackrod - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Blackrod - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 21.9 ppb on Feb 14 18:00

Maximum Daily Average: 8.9 ppb on Feb 20

Minimum Value: 0.3 ppb on Feb 27 10:00

Minimum Daily Average: 1.3 ppb on Feb 22

Maximum Diurnal Average: 6.2 ppb at hour 18

Minimum Diurnal Average: 3.1 ppb at hour 1

Monthly Average: 4.38 ppb

Percentiles: $P_1 = 0.5$ $P_{10} = 1.1$ $Q_1 = 1.7$ Median = 3.3 $Q_3 = 6.2$ $P_{90} = 9.3$ $P_{99} = 16.1$

Hours in Service:	672
Hours of Data:	625
Hours of Missing Data:	47
Hours of Calibration:	31
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.0	3.4	1.7	1.4	Z	0.9	1.1	0.9	0.6	0.8	1.4	1.4	1.5	1.8	2.8	3.5	4.0	3.7	3.1	2.3	2.0	1.7	1.5	1.5	2.0	4.0
2-Feb	1.7	1.5	1.6	1.6	1.4	Z	1.5	1.8	1.7	2.8	1.5	1.8	1.7	1.8	1.7	2.4	2.9	3.9	3.2	2.7	4.3	3.3	8.7	4.0	2.6	8.7
3-Feb	Z	3.7	9.6	4.0	3.8	2.2	3.3	6.9	8.0	7.2	1.4	1.0	1.2	0.9	0.9	1.2	1.1	1.6	1.7	1.3	1.4	2.8	3.3	2.9	3.1	9.6
4-Feb	2.3	Z	3.0	3.1	3.3	3.6	3.2	3.2	7.5	4.1	3.1	2.3	2.2	9.1	8.6	16.9	16.7	13.9	1.2	1.7	2.9	9.5	4.3	1.4	5.5	16.9
5-Feb	1.1	1.1	Z	1.5	10.8	11.4	7.6	12.7	15.5	4.3	8.7	4.7	8.3	5.8	6.1	3.2	2.6	2.7	4.8	4.4	3.5	4.5	8.5	1.5	5.9	15.5
6-Feb	1.6	2.0	1.0	Z	1.8	1.5	1.8	2.3	2.5	2.7	2.5	2.2	2.3	2.6	3.4	3.2	5.4	7.0	4.0	3.9	3.7	3.4	3.3	3.9	3.0	7.0
7-Feb	3.8	4.3	4.7	6.6	Z	13.2	17.0	13.5	14.2	4.0	4.6	4.5	4.3	4.9	5.2	4.9	4.5	6.1	9.9	9.8	8.8	8.5	7.0	7.8	7.5	17.0
8-Feb	14.2	14.8	9.0	7.0	4.6	Z	4.2	4.3	3.7	6.8	4.4	6.1	5.2	2.9	3.4	5.4	9.5	10.4	2.1	2.2	2.7	8.9	5.5	2.7	6.1	14.8
9-Feb	Z	3.7	1.6	0.7	0.7	0.8	1.1	1.1	1.3	1.7	1.3	1.3	8.7	11.8	11.3	5.5	1.9	4.5	2.2	2.1	4.6	5.6	5.6	8.0	3.8	11.8
10-Feb	3.5	Z	5.3	6.6	4.3	8.6	8.1	10.0	3.1	3.8	4.1	4.6	3.8	2.7	2.7	2.3	2.6	5.7	5.0	4.4	5.0	2.8	2.8	2.7	4.5	10.0
11-Feb	2.1	2.5	Z	1.4	1.3	1.1	1.1	1.1	1.4	1.3	1.0	C	C	C	C	2.1	3.6	1.8	1.4	1.3	1.1	1.2	1.0	1.5	1.5	3.6
12-Feb	1.3	1.1	1.6	Z	1.5	1.3	3.4	2.7	1.9	3.0	1.5	1.1	1.2	1.1	0.7	0.8	1.2	1.5	2.2	2.6	2.9	2.1	1.6	1.6	1.7	3.4
13-Feb	1.5	1.2	0.8	1.2	Z	1.4	1.4	1.5	3.7	1.5	4.1	7.6	8.6	8.7	8.5	6.2	2.4	1.5	1.4	1.4	1.9	1.4	1.2	1.2	3.1	8.7
14-Feb	1.3	1.1	2.3	1.9	1.9	Z	2.5	2.7	17.7	2.6	4.0	1.7	7.7	9.8	7.8	10.4	16.2	21.9	15.9	2.6	3.2	1.8	0.8	1.4	6.1	21.9
15-Feb	Z	2.0	2.0	3.7	6.7	6.6	6.4	12.1	2.5	3.2	9.5	4.8	3.7	11.4	5.9	6.3	3.7	8.3	8.2	6.8	5.1	4.0	3.9	3.4	5.7	12.1
16-Feb	3.2	Z	6.5	4.5	4.8	11.1	11.0	7.7	6.8	4.0	2.7	1.3	2.4	2.4	2.8	1.4	1.0	0.9	1.3	1.0	0.5	0.6	0.5	0.5	3.4	11.1
17-Feb	0.5	8.2	Z	5.7	4.5	5.1	7.6	5.7	6.6	6.7	4.7	9.8	5.9	4.9	5.2	4.0	4.8	4.7	4.8	5.5	5.6	5.8	4.5	7.7	5.6	9.8
18-Feb	5.7	9.5	12.0	Z	8.2	10.6	7.8	9.8	6.0	3.6	3.2	4.7	2.4	5.9	3.2	5.2	4.6	13.8	8.8	6.6	8.4	6.4	2.6	4.1	6.7	13.8
19-Feb	0.6	0.5	2.4	3.6	Z	2.3	1.9	1.9	1.6	0.8	0.8	0.5	0.9	0.7	0.4	0.6	0.7	1.9	3.3	3.4	3.5	5.3	8.3	12.2	2.5	12.2
20-Feb	11.8	9.8	9.6	9.0	9.5	Z	17.9	8.1	7.5	8.0	7.0	6.2	6.0	6.4	4.9	4.9	6.3	7.5	9.6	8.5	12.9	12.7	9.2	12.1	8.9	17.9
21-Feb	Z	8.5	6.5	10.9	13.5	15.8	13.9	13.2	14.0	15.0	9.2	7.9	6.3	6.5	8.0	5.2	8.3	9.1	4.2	3.3	3.4	2.3	1.9	1.9	8.2	15.8
22-Feb	1.7	Z	1.8	1.7	0.8	0.8	0.7	1.1	1.1	1.2	0.9	0.8	0.9	0.9	1.0	1.2	1.4	3.8	1.8	1.3	1.3	1.1	1.0	0.8	1.3	3.8
23-Feb	1.0	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	8.7	10.2	3.9	2.2	5.9	7.5	6.2	4.4	--	10.2
24-Feb	3.7	5.7	5.7	Z	3.3	3.5	3.4	3.6	3.9	3.0	2.4	1.9	1.8	1.7	2.0	1.9	1.8	2.2	3.1	1.9	1.3	1.6	2.3	2.1	2.8	5.7
25-Feb	2.8	3.1	3.0	2.9	Z	3.4	12.5	10.5	11.6	PF	8.3	1.5	1.6	1.9	1.6	2.1	4.4	3.3	3.2	1.7	2.7	3.5	3.1	2.2	4.1	12.5
26-Feb	1.3	1.5	1.1	0.8	0.8	Z	1.9	2.0	2.0	5.4	2.3	9.1	7.3	5.4	4.8	5.5	2.8	8.8	6.4	1.8	1.4	3.9	0.6	1.9	3.4	9.1
27-Feb	Z	0.5	7.4	6.3	1.2	1.0	5.8	9.3	5.8	0.3	6.5	4.3	4.0	2.8	3.9	2.5	3.3	5.5	4.0	3.0	7.4	7.1	6.9	3.9	4.5	9.3
28-Feb	3.1	Z	2.5	1.8	2.2	3.3	3.0	2.5	1.7	1.6	1.3	1.2	0.9	0.9	1.1	1.6	4.4	7.0	7.5	9.3	9.8	8.8	7.9	7.5	4.0	9.8
	3.1	4.1	4.3	3.8	4.1	5.0	5.6	5.6	5.7	3.8	3.8	3.6	3.9	4.5	4.2	4.1	4.7	6.2	4.6	3.5	4.2	4.6	4.1	3.8	Diurnal Average	
	14.2	14.8	12.0	10.9	13.5	15.8	17.9	13.5	17.7	15.0	9.5	9.8	8.7	11.8	11.3	16.9	16.7	21.9	15.9	9.8	12.9	12.7	9.2	12.2	Diurnal Maximum	

Z - zerospan C - Calibration PF - Power Failure

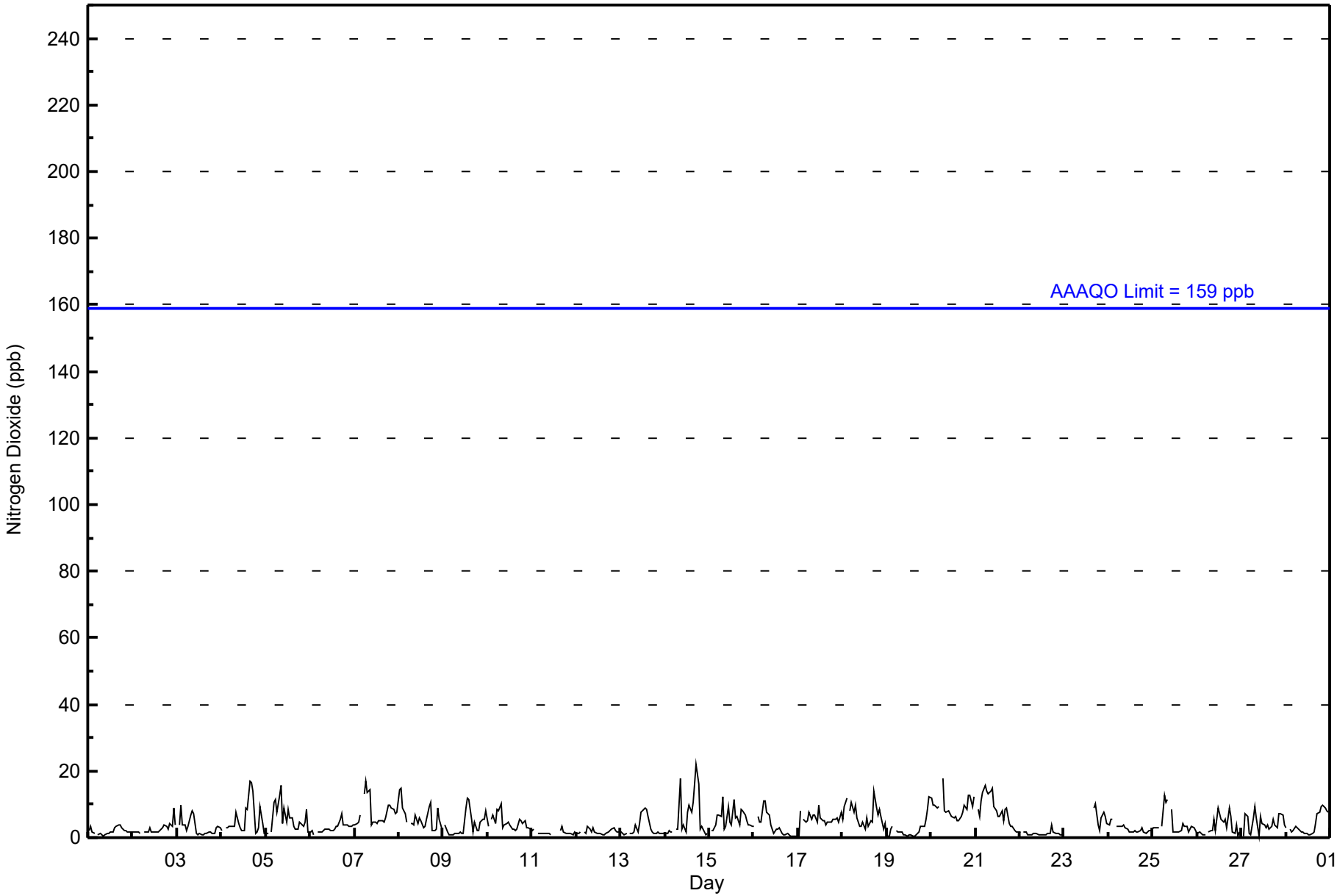
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Blackrod - February 2026



Nitrogen Dioxide (NO_2) - ppb
Blackrod - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	624	99.84	99.84
21 - 40	1	0.16	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 625

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Blackrod - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	63	67	21	9	7	8	19	61	223	50	14	8	8	16	15	35	624
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	63	67	21	9	7	8	19	61	223	50	14	8	8	17	15	35	625

Total Number of Valid Hours: 625

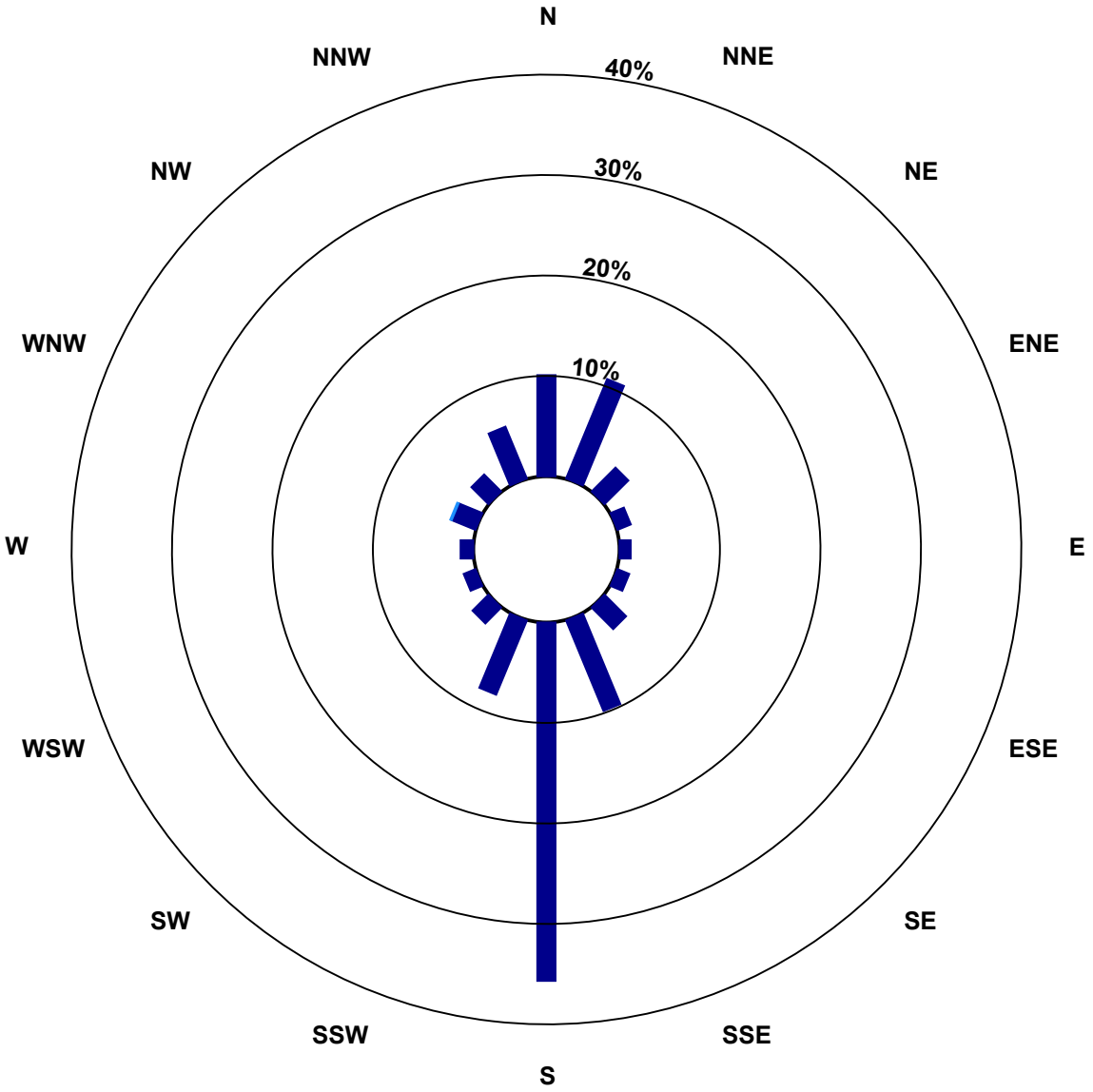
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Blackrod



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

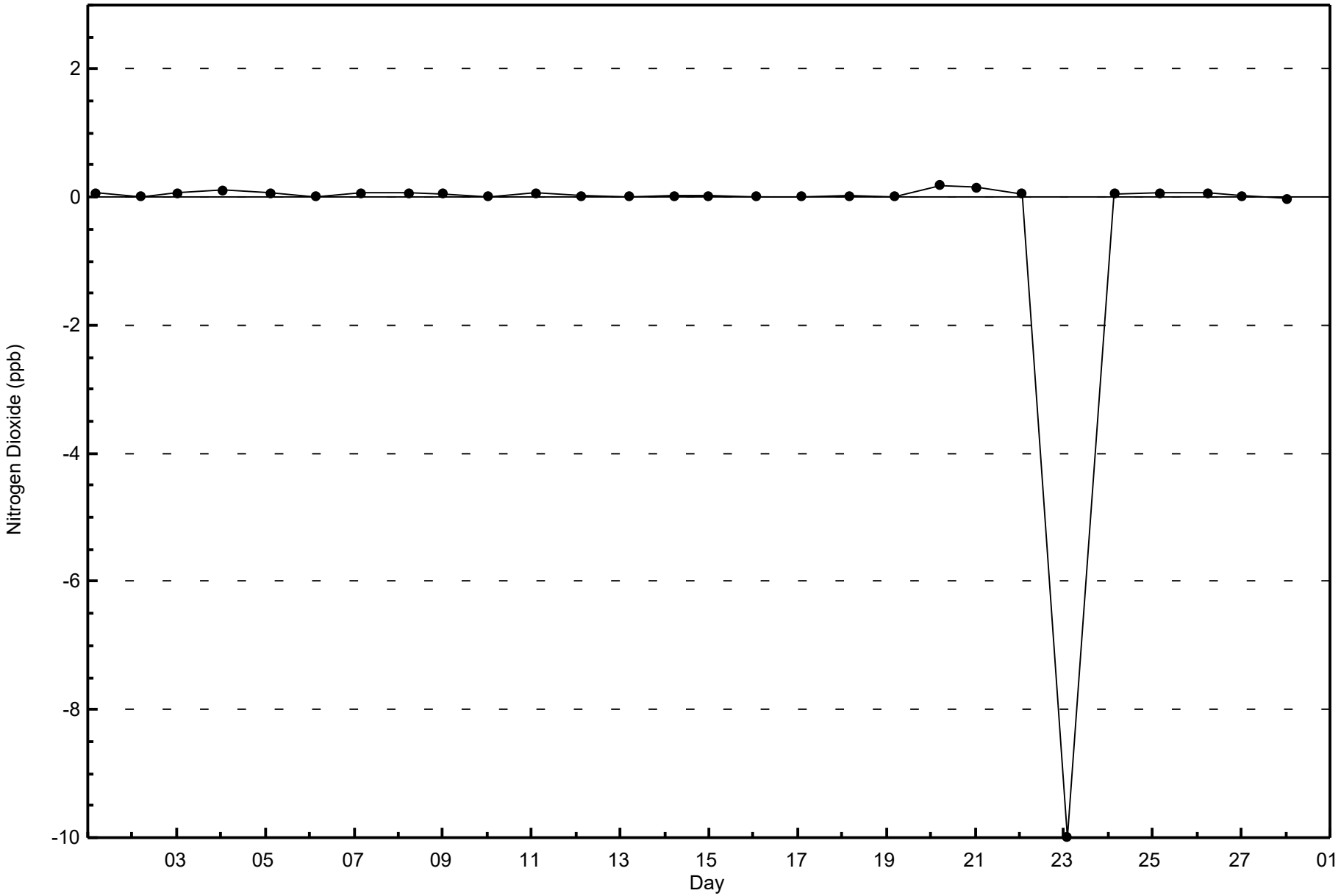
Total Number of Valid Hours: 625

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Blackrod - February 2026

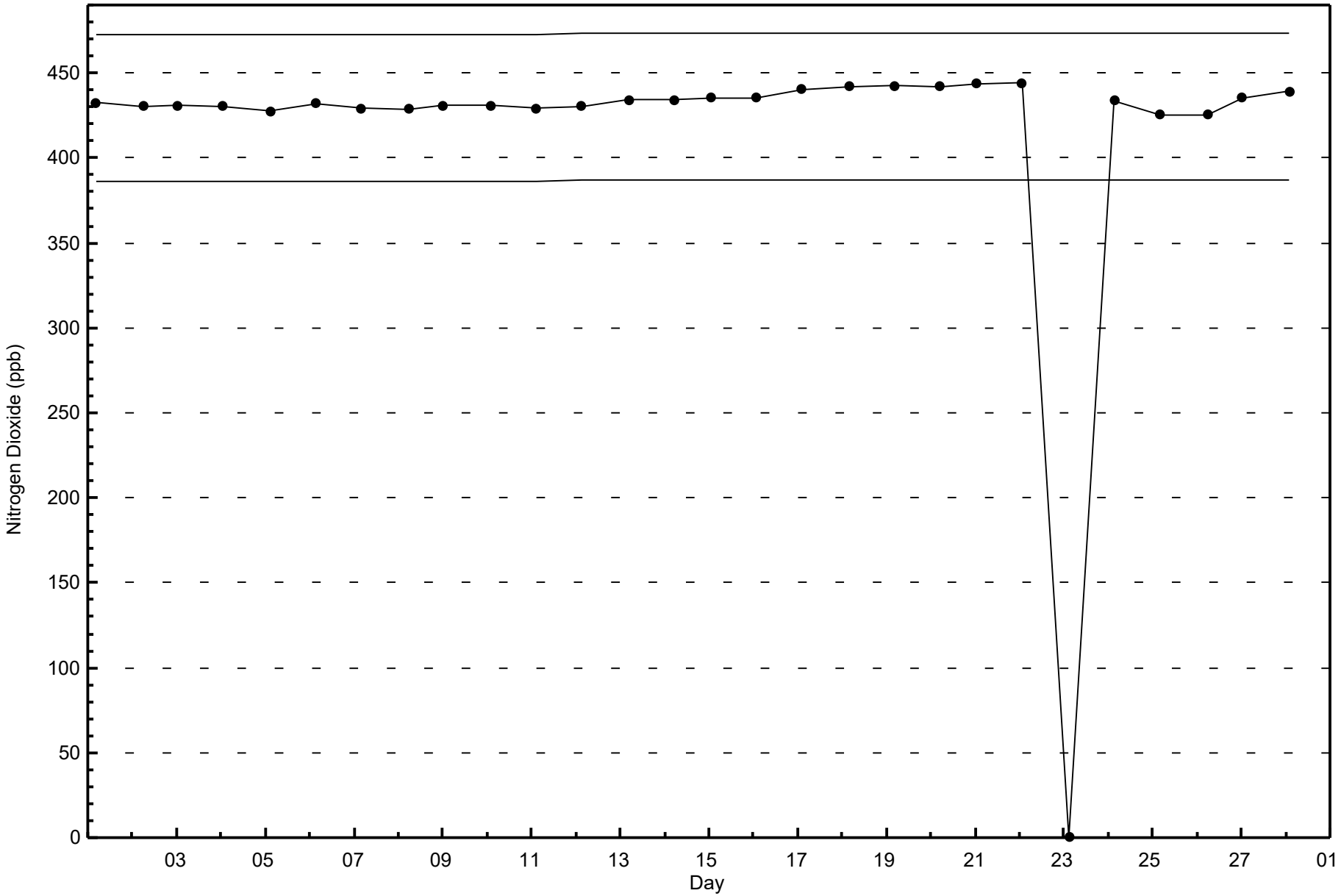


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Blackrod - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Blackrod - February 2026

Maximum Value: 50.2 ppb on Feb 18 06:00

Maximum Daily Average: 26.4 ppb on Feb 18

Minimum Value: 0.5 ppb on Feb 19 02:00

Minimum Daily Average: 1.5 ppb on Feb 22

Maximum Diurnal Average: 11.9 ppb at hour 9

Minimum Diurnal Average: 3.9 ppb at hour 1

Monthly Average: 8.11 ppb

Percentiles: P_1 = 0.7 P_{10} = 1.3 Q_1 = 2.1 Median = 4.1 Q_3 = 11.1 P_{90} = 20.3 P_{99} = 42.8

Hours in Service:	672
Hours of Data:	625
Hours of Missing Data:	47
Hours of Calibration:	31
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.2	5.2	2.0	1.5	Z	0.9	1.5	0.9	0.6	1.0	1.8	1.9	1.9	2.2	3.3	4.2	4.5	4.1	3.3	2.3	2.0	1.7	1.5	1.5	2.3	5.2
2-Feb	1.8	1.5	1.6	1.6	1.5	Z	1.7	2.2	2.1	4.9	4.2	2.3	2.3	2.6	2.3	3.1	3.3	4.6	3.3	2.7	5.0	3.6	12.7	5.0	3.3	12.7
3-Feb	Z	6.9	28.3	10.3	8.3	5.0	6.4	13.7	19.2	17.9	2.1	1.3	1.9	1.2	1.1	1.4	1.2	1.7	1.8	1.3	1.6	2.8	3.3	2.9	6.2	28.3
4-Feb	2.3	Z	3.0	3.1	3.4	3.7	3.3	3.2	12.1	8.6	4.1	3.1	3.1	18.9	17.1	32.7	31.8	20.9	1.3	2.1	3.3	15.9	6.2	1.4	8.9	32.7
5-Feb	1.1	1.1	Z	1.5	24.2	25.6	17.1	27.1	33.0	11.1	19.4	12.5	22.2	12.8	15.6	6.7	4.0	4.4	7.0	4.9	3.9	4.9	9.9	1.5	11.8	33.0
6-Feb	1.6	2.3	1.0	Z	2.0	1.5	1.8	2.4	2.7	3.3	3.4	3.2	3.4	3.7	5.1	4.0	6.8	10.4	4.3	4.0	3.7	3.4	3.3	4.1	3.5	10.4
7-Feb	4.1	4.5	4.9	8.7	Z	22.7	38.7	32.0	35.1	9.9	11.7	11.2	23.4	12.1	13.9	11.7	9.5	12.0	17.2	13.8	12.1	13.5	12.4	13.6	15.2	38.7
8-Feb	18.5	20.3	13.1	7.2	5.1	Z	4.3	4.7	4.1	21.4	12.4	17.3	13.2	5.8	8.1	14.6	24.8	26.4	4.9	5.3	8.9	32.8	11.1	4.2	12.5	32.8
9-Feb	Z	4.5	1.6	0.7	0.7	0.9	1.3	1.4	1.8	2.6	1.8	2.1	20.3	28.7	23.2	13.7	3.3	7.2	3.6	4.6	8.1	10.9	9.4	13.7	7.2	28.7
10-Feb	4.0	Z	7.9	8.4	5.0	14.6	11.2	19.1	3.7	4.6	5.7	5.6	4.9	3.9	3.9	3.0	3.0	9.1	5.2	4.8	6.1	2.9	2.9	2.9	6.2	19.1
11-Feb	2.1	2.7	Z	1.5	1.3	1.2	1.2	1.2	1.7	1.5	1.3	C	C	C	C	2.9	4.8	2.1	1.4	1.3	1.1	1.2	1.0	1.5	1.7	4.8
12-Feb	1.3	1.1	1.6	Z	1.5	1.4	4.0	3.7	2.3	4.4	1.9	1.5	1.7	1.5	0.9	0.9	1.4	1.6	2.2	2.6	2.9	2.2	1.6	1.7	2.0	4.4
13-Feb	1.6	1.2	0.8	1.2	Z	1.4	1.5	1.7	4.5	1.8	6.7	14.3	17.5	18.1	17.2	11.5	3.1	1.7	1.5	1.5	2.1	1.4	1.2	1.2	5.0	18.1
14-Feb	1.3	1.1	3.5	1.9	1.9	Z	2.6	3.0	40.0	3.0	5.9	2.4	16.0	22.1	17.2	21.9	30.2	43.5	25.0	3.1	5.1	2.1	0.8	1.6	11.1	43.5
15-Feb	Z	2.0	2.1	4.7	8.9	9.5	13.3	16.9	4.1	5.8	15.3	8.3	8.3	30.4	14.0	12.6	4.5	15.7	13.4	8.9	5.3	4.0	4.1	3.5	9.4	30.4
16-Feb	3.2	Z	9.4	5.0	5.5	19.3	17.0	10.8	11.0	6.9	5.4	2.4	4.4	4.2	6.7	2.7	1.7	1.7	2.0	1.5	0.7	0.7	0.6	0.7	5.4	19.3
17-Feb	0.8	14.7	Z	7.6	5.9	10.0	19.8	19.1	17.4	27.6	22.2	47.4	30.4	16.5	15.2	7.5	9.0	7.3	7.7	9.6	10.3	11.6	10.6	22.8	15.3	47.4
18-Feb	17.0	30.9	37.9	Z	44.2	50.2	33.7	43.8	38.5	33.7	45.8	21.0	16.2	28.0	24.1	23.1	16.9	45.2	16.8	10.9	9.4	6.9	5.0	7.4	26.4	50.2
19-Feb	0.6	0.5	3.1	3.7	Z	2.6	2.1	2.4	2.2	1.3	1.5	1.4	1.8	2.0	1.1	1.0	0.9	2.3	3.5	3.5	3.6	5.3	8.4	12.3	2.9	12.3
20-Feb	11.9	9.8	9.6	9.2	9.8	Z	22.3	8.6	9.1	12.8	11.4	10.1	9.8	10.6	7.5	6.7	8.0	9.2	10.9	9.5	14.6	15.4	10.5	14.7	11.0	22.3
21-Feb	Z	11.2	10.1	11.5	14.2	20.2	21.7	22.4	30.0	40.5	26.0	21.2	18.2	16.0	21.2	11.2	18.4	18.8	6.3	3.9	3.9	2.7	2.5	2.2	15.4	40.5
22-Feb	1.9	Z	2.2	1.8	0.9	0.9	0.7	1.5	1.4	1.7	1.3	1.1	1.2	1.3	1.5	1.6	1.7	5.2	2.0	1.3	1.3	1.1	1.0	0.8	1.5	5.2
23-Feb	1.0	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	19.8	22.3	8.5	3.1	8.6	9.9	8.3	4.6	--	22.3
24-Feb	3.8	8.9	7.9	Z	3.8	4.4	3.9	4.1	5.0	4.5	4.0	3.3	3.2	2.7	2.8	2.3	2.0	2.4	3.3	2.1	1.4	1.6	2.3	2.1	3.6	8.9
25-Feb	2.8	3.1	3.0	2.9	Z	3.5	20.9	22.3	22.8	PF	18.2	2.1	2.3	3.0	2.2	2.8	5.6	3.9	3.6	1.8	2.8	4.1	3.2	2.4	6.3	22.8
26-Feb	1.3	1.7	1.2	0.9	0.9	Z	2.5	2.5	2.8	10.5	3.8	19.1	16.3	14.1	9.8	13.1	7.5	24.1	17.2	6.0	5.4	10.2	1.4	6.1	7.8	24.1
27-Feb	Z	0.6	24.4	16.8	2.2	2.1	15.2	23.3	12.9	6.4	21.8	16.5	17.0	11.1	13.2	9.8	7.8	10.3	5.9	3.7	10.1	8.2	8.2	5.1	11.0	24.4
28-Feb	3.1	Z	2.8	1.8	2.3	3.6	3.1	2.8	2.1	2.3	2.2	2.0	1.6	1.5	1.8	2.4	5.6	7.8	7.6	9.3	9.9	8.9	8.0	7.7	4.4	9.9
	3.9	6.2	7.6	4.9	7.0	9.3	10.1	11.0	11.9	9.6	9.7	9.0	10.1	10.6	9.6	8.5	8.6	11.6	6.8	4.6	5.5	6.8	5.4	5.3	Diurnal Average	
	18.5	30.9	37.9	16.8	44.2	50.2	38.7	43.8	40.0	40.5	45.8	47.4	30.4	30.4	24.1	32.7	31.8	45.2	25.0	13.8	14.6	32.8	12.7	22.8	Diurnal Maximum	

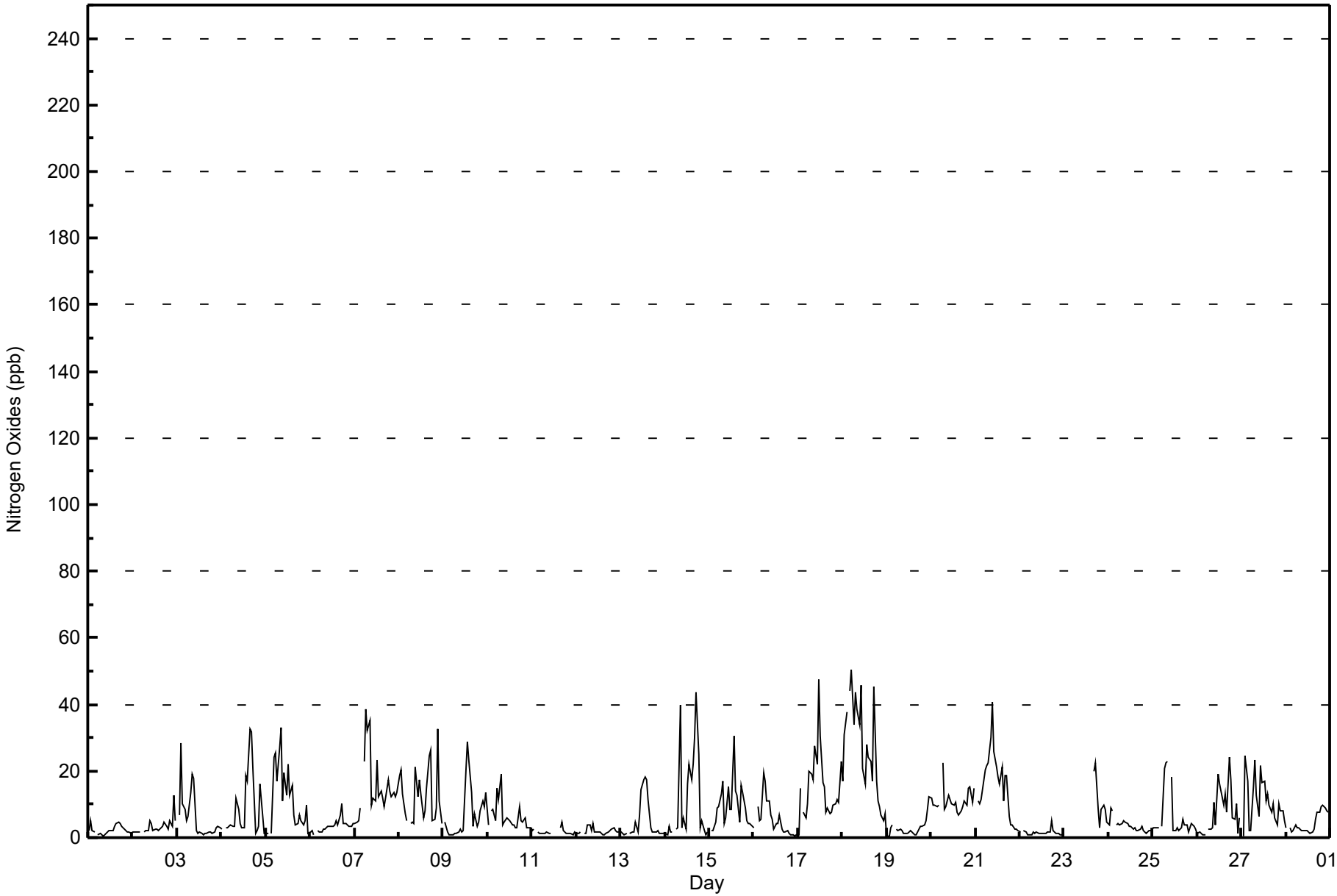
Z - zerospan C - Calibration PF - Power Failure

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Blackrod - February 2026



Nitrogen Oxides (NO_X) - ppb
Blackrod - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	563	90.08	90.08
21 - 40	54	8.64	98.72
11 - 80	8	1.28	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 625

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Blackrod - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	39	58	21	9	7	8	19	61	222	49	14	7	5	7	8	29	563
21 - 40	18	9	0	0	0	0	0	0	1	1	0	1	3	9	7	5	54
11 - 80	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	8
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	63	67	21	9	7	8	19	61	223	50	14	8	8	17	15	35	625

Total Number of Valid Hours: 625

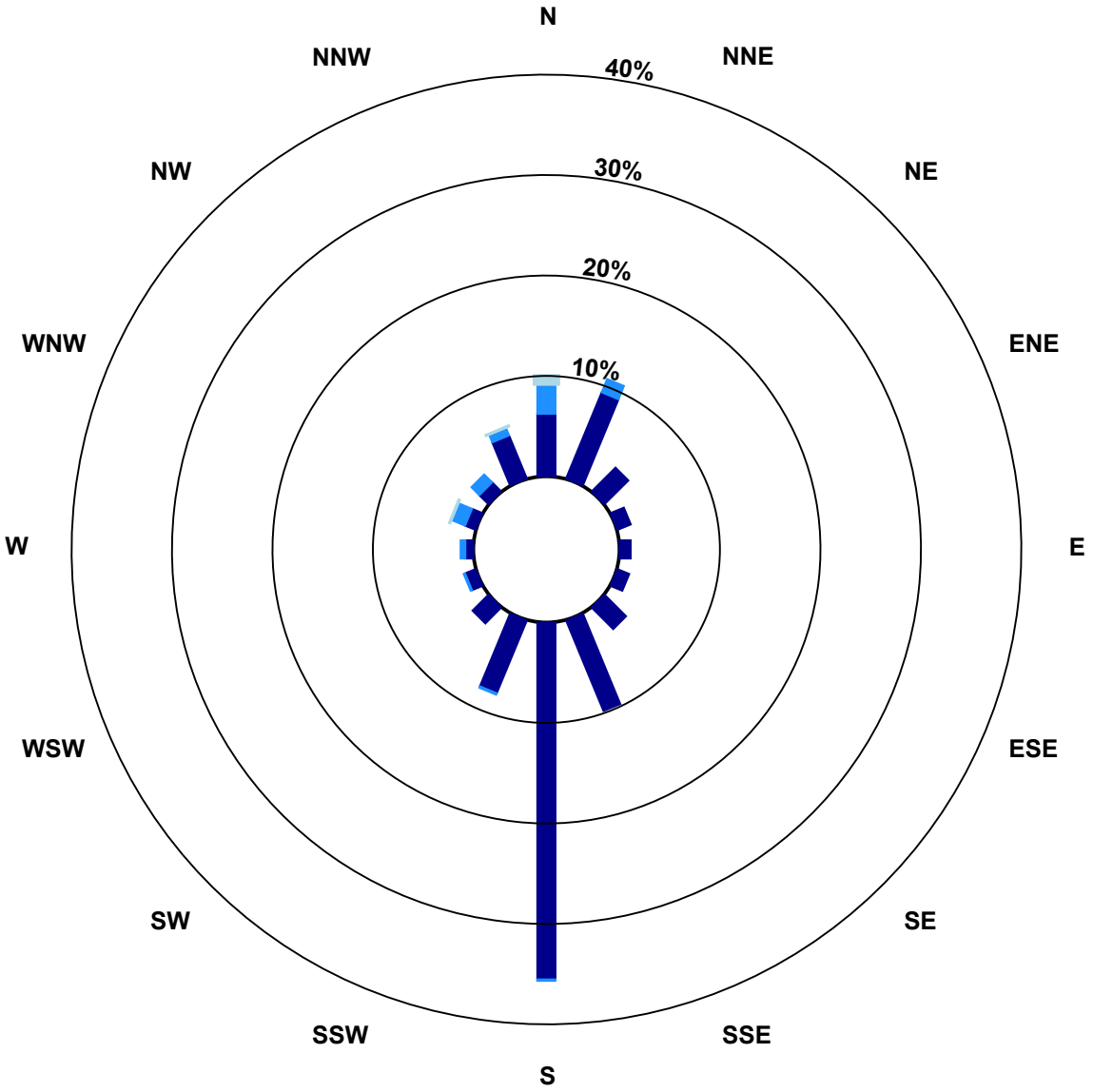
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Blackrod



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

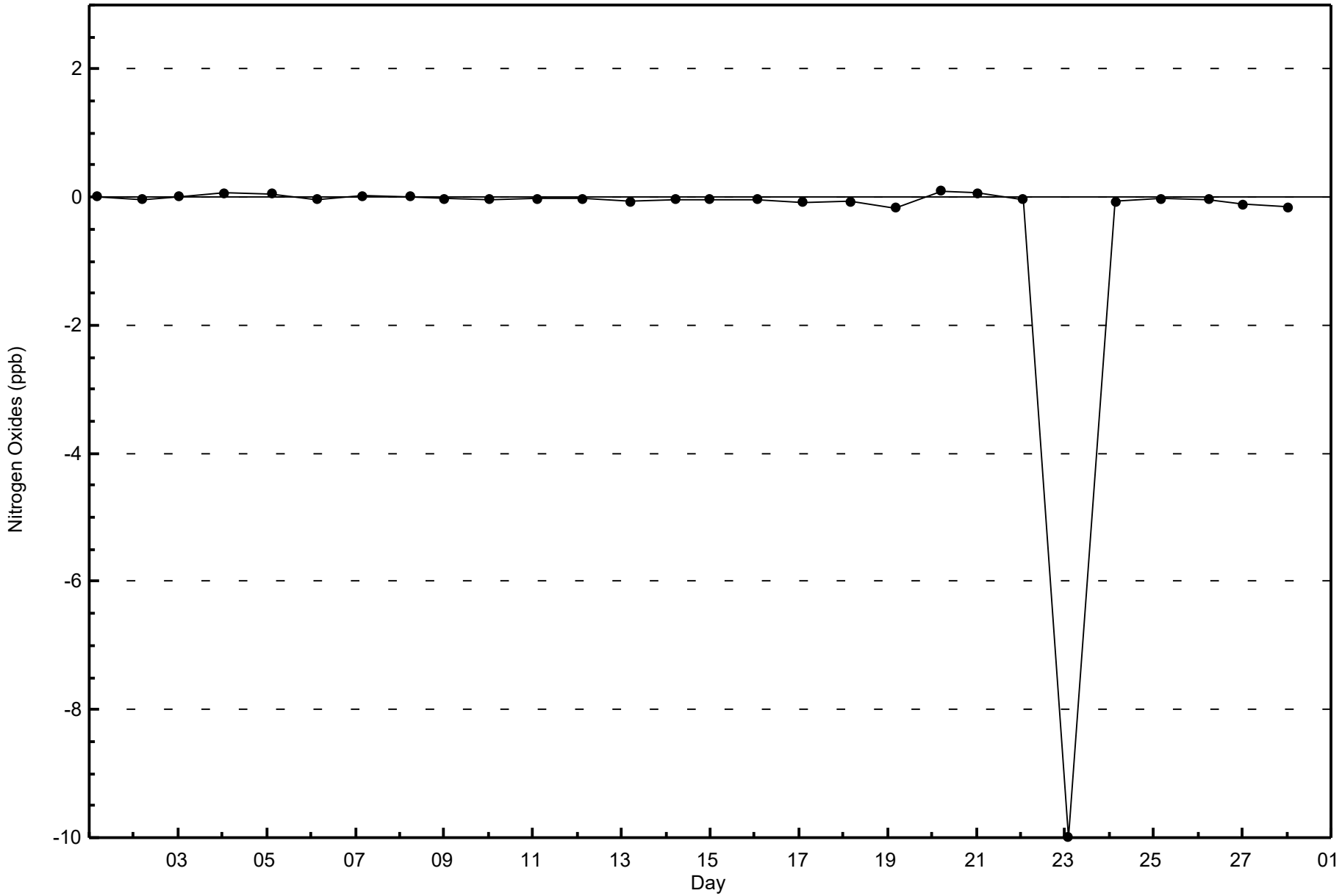
Total Number of Valid Hours: 625

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Blackrod - February 2026

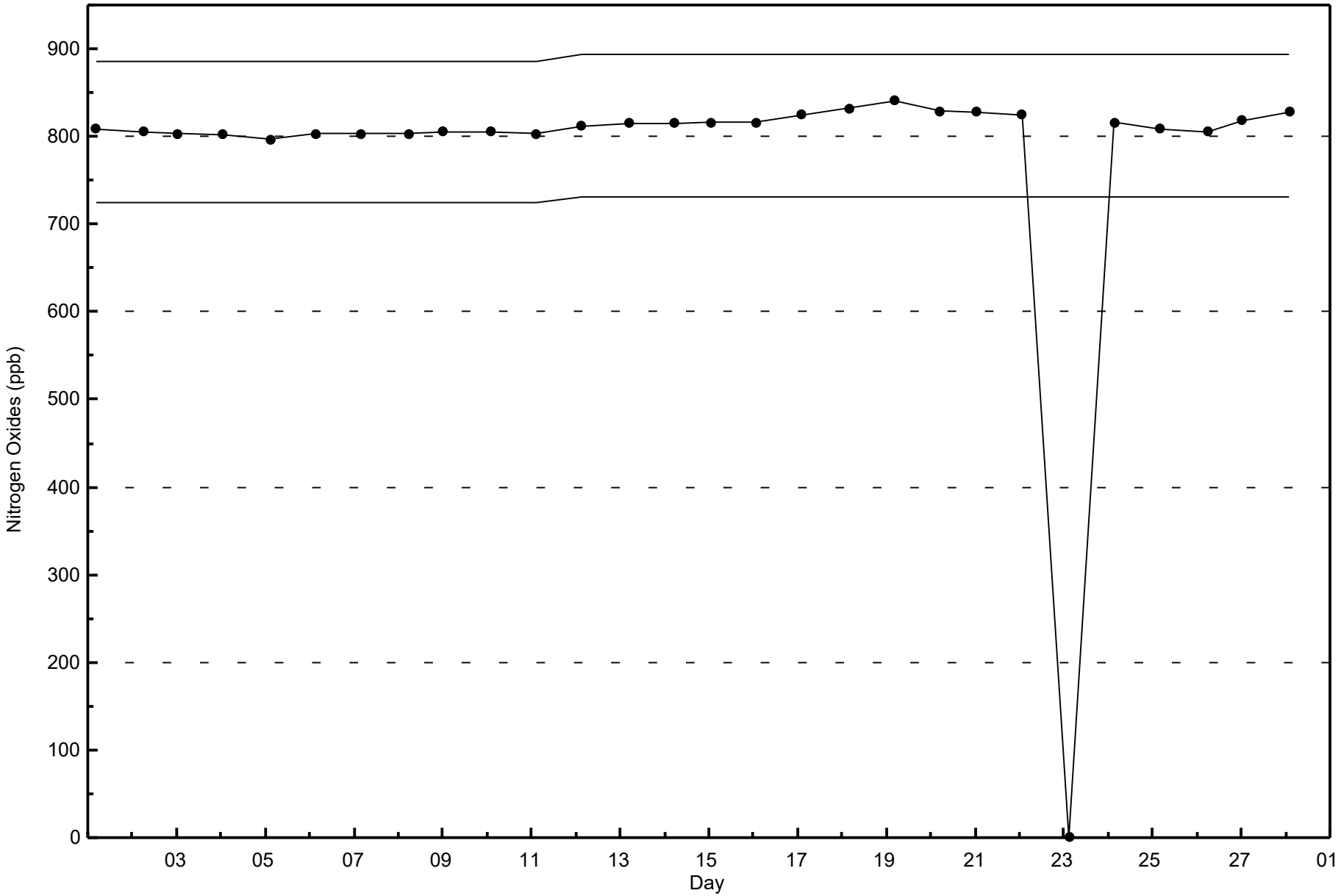


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Blackrod - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Ambient Temperature 2m (AT2) - C

Blackrod - February 2026

Maximum Value: 10.5 C on Feb 4 15:00

Maximum Daily Average: 4.2 C on Feb 4

Minimum Value: -34.5 C on Feb 18 23:00

Minimum Daily Average: -30.3 C on Feb 18

Maximum Diurnal Average: -6.7 C at hour 16

Minimum Diurnal Average: -12.2 C at hour 8

Monthly Average: -10.14 C

Percentiles: P_1 = -33.1 P_{10} = -25.5 Q_1 = -18.9 Median = -7.4 Q_3 = -1.8 P_{90} = 1.4 P_{99} = 7.9

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

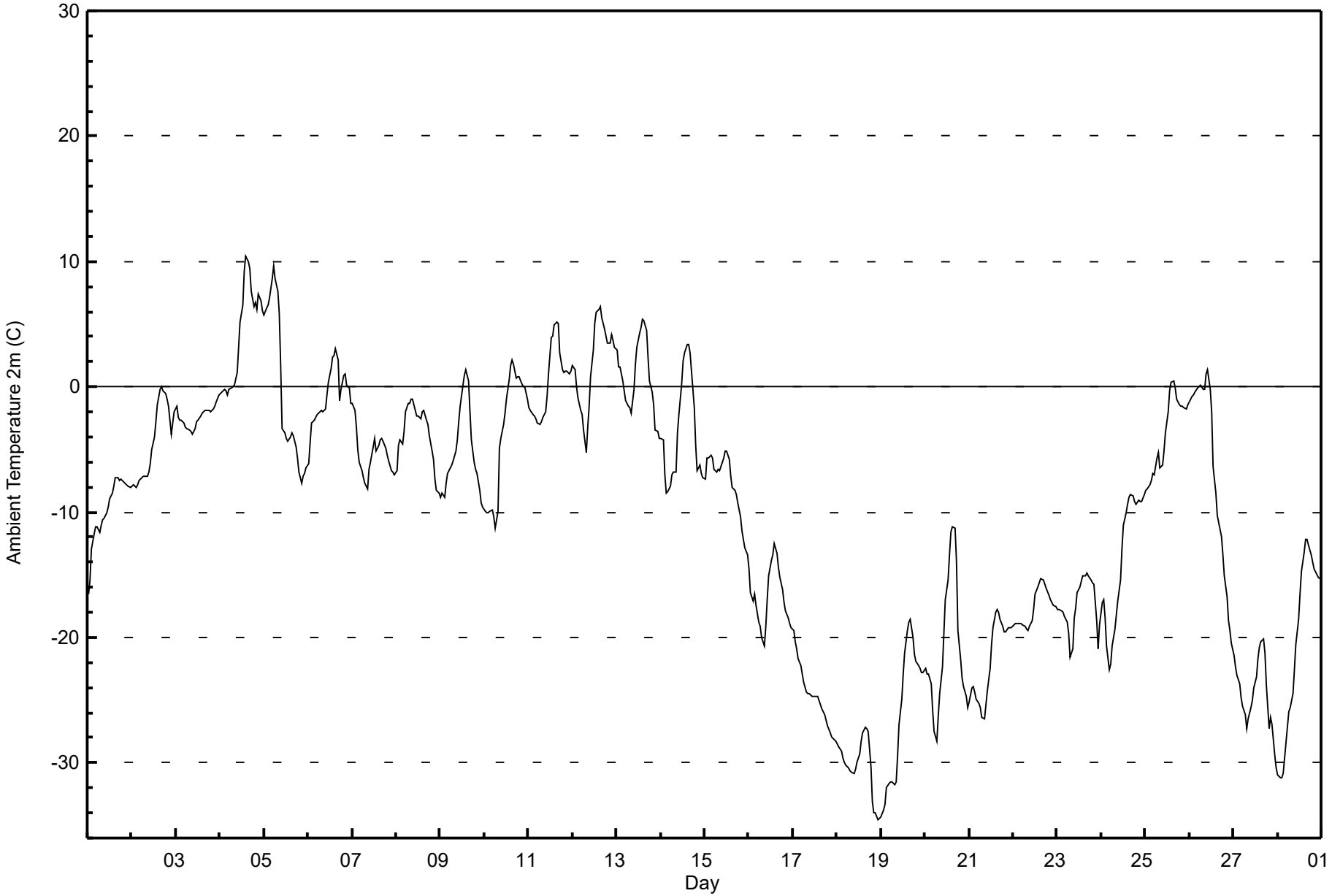
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-16.6	-15.5	-12.9	-11.8	-11.1	-11.2	-11.6	-11.1	-10.6	-10.5	-10.1	-9.6	-8.9	-8.4	-7.9	-7.3	-7.3	-7.4	-7.4	-7.5	-7.7	-7.8	-8.0	-8.0	-9.8	-7.3
2-Feb	-7.9	-7.8	-8.0	-7.8	-7.4	-7.3	-7.1	-7.1	-7.1	-6.8	-6.1	-5.0	-4.0	-2.7	-1.4	-0.2	0.0	-0.3	-0.5	-0.9	-1.5	-3.8	-2.9	-2.0	-4.4	0.0
3-Feb	-1.6	-2.5	-2.7	-2.6	-2.9	-3.2	-3.3	-3.5	-3.6	-3.7	-3.4	-2.7	-2.7	-2.3	-2.1	-1.9	-1.9	-1.9	-1.9	-2.0	-1.8	-1.5	-1.2	-0.7	-2.4	-0.7
4-Feb	-0.5	-0.4	-0.2	-0.4	-0.6	-0.2	-0.1	0.0	0.2	1.2	3.1	5.2	6.5	9.2	10.5	9.9	9.5	7.7	6.4	6.7	6.1	7.4	6.9	6.1	4.2	10.5
5-Feb	5.8	6.2	6.5	7.0	8.6	9.6	8.7	7.6	5.9	1.7	-3.3	-3.7	-4.1	-4.4	-4.0	-3.7	-3.9	-4.7	-5.6	-6.8	-7.7	-7.2	-7.0	-6.5	-0.2	9.6
6-Feb	-6.1	-4.5	-2.9	-2.7	-2.5	-2.2	-2.0	-1.9	-2.0	-1.8	-0.6	0.4	1.4	2.4	2.5	3.1	2.1	-1.0	-0.2	0.9	1.0	0.2	-0.1	-1.3	-0.7	3.1
7-Feb	-1.3	-1.8	-3.3	-5.0	-6.1	-6.7	-7.3	-7.7	-8.1	-6.6	-6.0	-4.8	-4.1	-5.2	-4.7	-4.2	-4.1	-4.3	-4.9	-5.4	-6.0	-6.7	-6.8	-7.0	-5.3	-1.3
8-Feb	-6.7	-4.7	-4.2	-4.6	-3.5	-2.0	-1.3	-1.3	-1.0	-0.9	-1.9	-2.3	-2.3	-2.5	-2.0	-1.8	-2.6	-3.0	-3.9	-5.1	-5.8	-7.3	-8.3	-8.4	-3.6	-0.9
9-Feb	-8.8	-8.5	-8.8	-7.7	-6.9	-6.5	-6.2	-5.9	-5.1	-4.2	-2.8	-1.6	0.2	0.9	1.4	0.5	-2.0	-4.3	-6.0	-6.6	-6.9	-8.3	-9.3	-9.7	-5.1	1.4
10-Feb	-10.0	-10.1	-10.1	-9.9	-9.8	-10.4	-11.3	-9.9	-4.9	-4.1	-3.0	-2.1	-1.0	0.6	1.7	2.1	1.8	0.7	0.8	0.8	0.3	0.0	0.0	-1.0	-3.7	2.1
11-Feb	-1.7	-1.8	-2.2	-2.3	-2.6	-2.9	-3.0	-2.8	-2.5	-1.9	-0.8	1.1	4.0	4.1	4.9	5.1	5.0	2.7	1.4	1.1	1.2	1.2	1.0	1.3	0.4	5.1
12-Feb	1.7	1.4	0.0	-0.9	-1.8	-2.2	-3.4	-5.3	-3.3	-1.5	0.8	2.9	5.0	5.9	6.2	6.4	5.5	4.7	4.0	3.4	3.5	4.2	3.7	3.2	1.8	6.4
13-Feb	2.9	1.6	1.5	0.5	-0.3	-1.1	-1.5	-1.7	-2.1	-0.2	1.8	3.1	4.3	4.7	5.4	5.3	4.5	2.4	0.5	-0.5	-1.5	-3.4	-3.5	-4.2	0.8	5.4
14-Feb	-4.1	-4.2	-7.0	-8.4	-8.3	-8.0	-7.1	-6.8	-6.8	-3.6	-2.2	0.3	2.0	2.7	3.4	3.3	2.7	1.3	-1.6	-4.7	-6.7	-6.3	-6.9	-7.2	-3.5	3.4
15-Feb	-7.4	-5.7	-5.7	-5.5	-5.7	-6.6	-6.8	-6.5	-6.7	-6.4	-5.6	-5.1	-5.2	-5.8	-7.2	-8.0	-8.3	-8.6	-9.3	-10.4	-11.5	-12.2	-12.9	-13.4	-7.8	-5.1
16-Feb	-14.5	-16.4	-17.1	-16.5	-17.4	-18.8	-19.1	-20.0	-20.7	-19.1	-17.0	-15.0	-13.8	-13.5	-12.5	-13.3	-14.4	-15.2	-16.2	-17.2	-17.9	-18.5	-18.8	-19.2	-16.8	-12.5
17-Feb	-19.4	-20.3	-20.9	-21.6	-22.3	-23.0	-23.5	-24.3	-24.4	-24.5	-24.7	-24.7	-24.7	-24.7	-25.0	-25.4	-25.7	-26.1	-26.6	-27.1	-27.6	-27.9	-28.0	-28.3	-24.6	-19.4
18-Feb	-28.5	-28.7	-29.1	-29.6	-29.9	-30.2	-30.4	-30.6	-30.7	-30.9	-30.6	-30.0	-29.3	-28.3	-27.7	-27.2	-27.3	-27.5	-30.3	-33.1	-34.0	-34.0	-34.5	-34.5	-30.3	-27.2
19-Feb	-34.3	-33.7	-33.3	-31.9	-31.6	-31.6	-31.5	-31.7	-31.5	-29.4	-26.9	-24.9	-22.9	-21.2	-19.5	-18.8	-18.6	-20.0	-21.3	-21.9	-22.3	-22.5	-22.8	-22.9	-26.1	-18.6
20-Feb	-22.5	-22.9	-23.0	-23.6	-25.8	-27.5	-28.2	-26.3	-24.5	-22.4	-19.7	-17.0	-15.4	-13.4	-11.6	-11.2	-11.3	-13.9	-19.4	-21.8	-23.2	-23.9	-24.7	-25.5	-20.8	-11.2
21-Feb	-25.1	-24.1	-23.9	-24.4	-24.9	-25.2	-25.6	-26.4	-26.5	-25.4	-24.2	-22.4	-20.6	-19.3	-18.0	-17.8	-18.0	-18.5	-19.1	-19.5	-19.6	-19.2	-19.3	-19.2	-21.9	-17.8
22-Feb	-19.0	-18.9	-18.9	-18.9	-18.9	-19.0	-19.2	-19.3	-19.4	-19.1	-18.6	-17.8	-16.5	-16.0	-15.7	-15.3	-15.4	-15.7	-16.1	-16.6	-16.9	-17.2	-17.4	-17.5	-17.6	-15.3
23-Feb	-17.7	-17.8	-17.9	-18.0	-18.3	-18.8	-19.7	-21.5	-20.9	-18.5	-17.7	-16.5	-16.0	-15.5	-15.1	-15.1	-14.8	-15.1	-15.4	-15.6	-15.7	-18.7	-20.9	-19.0	-17.5	-14.8
24-Feb	-17.2	-17.0	-18.4	-20.7	-22.5	-22.1	-20.7	-19.3	-18.2	-17.1	-15.4	-12.9	-11.1	-10.0	-9.4	-8.8	-8.6	-8.7	-9.1	-9.4	-9.0	-9.1	-9.2	-8.6	-13.9	-8.6
25-Feb	-8.2	-8.1	-7.8	-7.5	-7.0	-7.0	-5.7	-5.3	-6.5	-6.3	-5.1	-3.7	-2.0	-0.3	0.4	0.4	-0.1	-1.0	-1.5	-1.5	-1.5	-1.6	-1.7	-1.4	-3.8	0.4
26-Feb	-1.2	-0.8	-0.6	-0.4	-0.1	0.0	0.1	-0.2	-0.2	1.1	1.4	-0.2	-2.0	-6.3	-8.5	-10.3	-10.9	-11.9	-13.4	-15.1	-16.8	-18.6	-19.4	-20.5	-6.5	1.4
27-Feb	-21.5	-22.4	-23.1	-23.7	-24.8	-25.4	-26.2	-27.2	-26.5	-25.6	-25.0	-24.0	-23.1	-21.7	-20.8	-20.3	-20.1	-21.2	-23.8	-27.2	-26.4	-26.9	-29.4	-30.4	-24.5	-20.1
28-Feb	-30.9	-31.2	-31.2	-30.9	-29.6	-27.1	-25.9	-25.6	-24.5	-22.6	-20.6	-18.5	-16.5	-14.8	-13.2	-12.1	-12.1	-12.6	-13.4	-14.0	-14.5	-15.0	-15.1	-15.4	-20.3	-12.1
	-11.5	-11.5	-11.6	-11.8	-11.9	-12.0	-12.1	-12.2	-11.9	-11.0	-10.2	-9.0	-8.0	-7.4	-6.8	-6.7	-7.0	-8.0	-9.1	-9.9	-10.4	-10.9	-11.3	-11.5	Diurnal Average	
	5.8	6.2	6.5	7.0	8.6	9.6	8.7	7.6	5.9	1.7	3.1	5.2	6.5	9.2	10.5	9.9	9.5	7.7	6.4	6.7	6.1	7.4	6.9	6.1	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Blackrod - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	139	20.68	20.68
-20 - 0	427	63.54	84.23
0 - 10	105	15.63	99.85
10 - 20	1	0.15	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 2m (RH2) - %

Blackrod - February 2026

Maximum Value: 98.0 % on Feb 3 18:00

Maximum Daily Average: 95.2 % on Feb 3

Minimum Value: 25.9 % on Feb 13 15:00

Minimum Daily Average: 42.0 % on Feb 13

Maximum Diurnal Average: 80.6 % at hour 8

Minimum Diurnal Average: 65.1 % at hour 16

Monthly Average: 74.85 %

Percentiles: P_1 = 35.7 P_{10} = 55.4 Q_1 = 67.9 Median = 75.9 Q_3 = 85.8 P_{90} = 92.4 P_{99} = 97.4

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

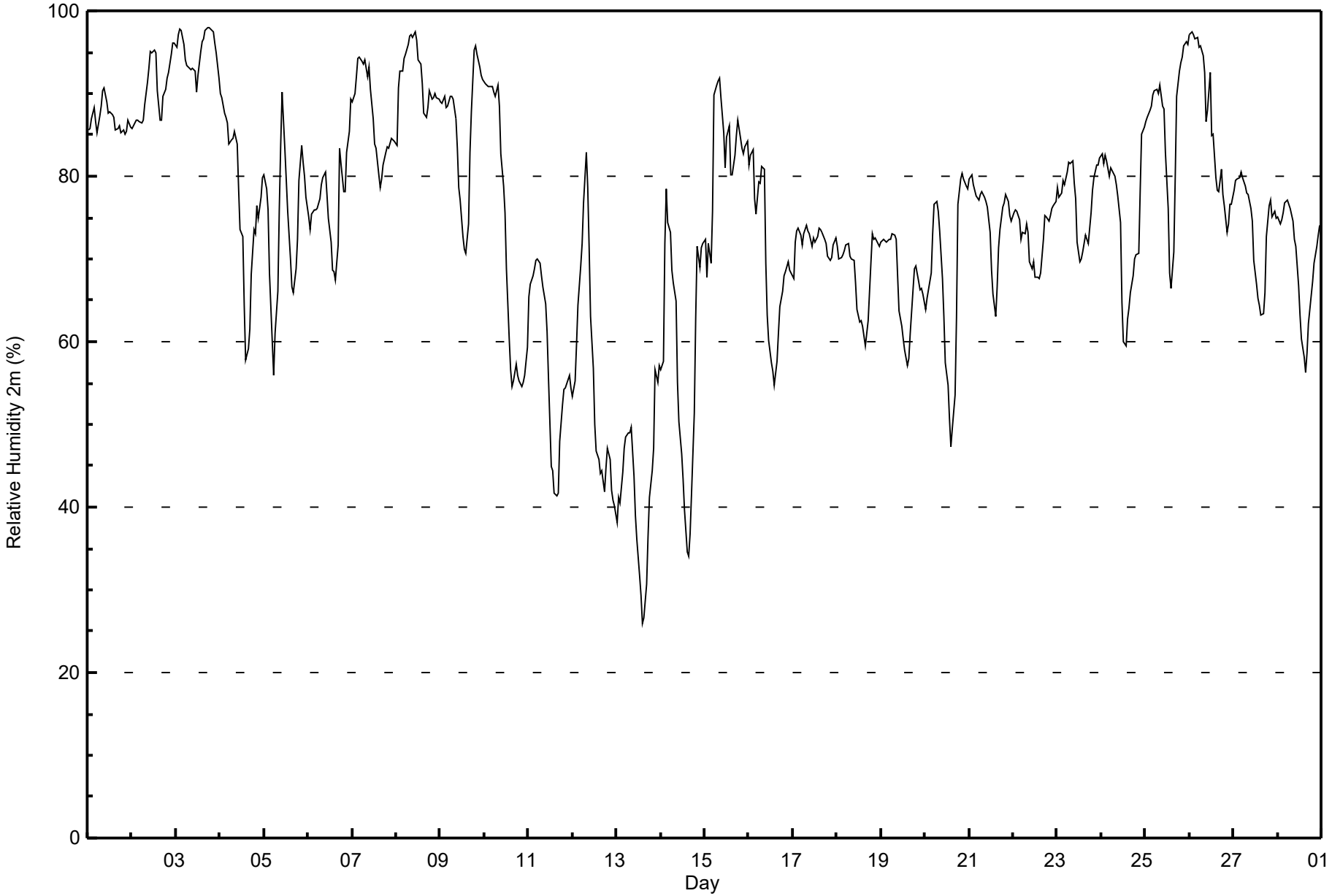
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	85.5	85.8	86.9	88.4	86.5	85.3	87.3	88.4	90.4	90.6	88.9	87.6	87.7	87.5	87.1	85.6	85.7	86.1	85.3	85.7	85.2	85.5	86.7	86.0	86.9	90.6
2-Feb	85.8	86.1	86.8	86.7	86.6	86.5	86.8	88.6	91.3	93.0	95.2	95.0	95.3	95.0	90.3	86.7	86.8	89.6	90.5	91.8	92.6	94.7	96.2	96.2	90.6	96.2
3-Feb	95.5	97.1	97.8	97.7	95.9	94.0	93.4	93.1	92.9	93.1	92.6	90.2	92.2	95.2	96.2	96.7	97.7	98.0	97.9	97.8	97.4	96.1	95.0	91.8	95.2	98.0
4-Feb	90.1	89.5	87.7	87.2	86.5	83.9	84.4	84.5	85.5	83.8	78.4	73.6	72.7	64.5	57.8	59.1	61.5	68.2	73.5	73.0	76.4	75.0	77.4	79.8	77.2	90.1
5-Feb	80.2	78.5	76.0	68.3	60.0	56.0	61.0	66.2	75.9	83.7	90.2	83.3	79.6	75.7	70.0	66.6	65.9	68.7	72.4	79.5	83.7	81.6	80.0	77.4	74.2	90.2
6-Feb	75.0	73.6	75.4	75.9	75.9	76.1	77.3	78.9	79.9	80.5	77.8	74.9	72.0	68.7	68.5	67.5	71.7	83.4	81.6	78.1	78.1	82.8	85.4	89.4	77.0	89.4
7-Feb	89.0	89.9	92.1	94.3	94.4	94.0	93.5	94.0	92.1	93.2	90.5	87.0	84.0	83.4	80.1	78.6	79.6	81.3	83.0	83.6	83.4	84.5	84.3	84.2	87.2	94.4
8-Feb	83.7	90.6	92.8	92.7	94.3	94.8	96.0	97.0	97.1	96.9	97.4	96.4	94.1	93.5	91.2	87.7	87.1	88.4	90.4	89.3	89.5	90.0	89.6	89.3	92.1	97.4
9-Feb	89.0	88.8	89.6	88.3	88.5	89.7	89.6	89.4	86.9	83.3	78.7	77.2	72.7	71.3	70.6	74.3	82.9	87.8	95.2	95.7	94.7	93.2	92.2	91.8	85.9	95.7
10-Feb	91.3	91.0	90.8	90.8	90.8	90.2	89.7	90.9	88.5	82.8	78.9	75.6	68.9	60.3	56.6	54.5	55.2	57.4	56.0	55.3	54.5	55.1	56.0	59.4	72.5	91.3
11-Feb	65.4	66.9	68.1	68.9	69.8	69.9	69.5	68.0	66.7	64.6	61.2	55.6	44.9	44.3	41.7	41.4	41.7	47.9	52.4	54.3	54.3	54.9	55.9	54.4	57.6	69.9
12-Feb	53.4	55.3	59.6	64.5	69.2	71.9	76.8	82.9	78.6	71.4	63.1	56.7	50.0	46.8	45.8	44.1	44.4	41.8	44.8	47.2	45.8	42.0	40.9	40.2	55.7	82.9
13-Feb	38.1	41.2	40.6	44.3	47.0	48.5	49.0	49.0	49.6	43.7	38.9	36.1	31.7	29.3	25.9	26.6	30.7	36.4	41.1	44.4	47.2	56.6	55.2	57.2	42.0	57.2
14-Feb	56.7	57.6	71.9	78.5	74.4	73.3	68.7	67.1	64.9	55.1	50.4	46.5	43.4	39.7	34.5	34.1	36.7	41.5	51.3	62.8	71.5	68.9	71.4	71.8	58.0	78.5
15-Feb	72.4	67.7	71.9	69.5	75.7	89.9	91.1	91.5	91.9	89.6	85.2	81.0	84.8	86.0	80.2	80.2	82.5	84.9	86.7	84.6	83.4	82.8	83.5	84.2	82.5	91.9
16-Feb	81.4	82.6	83.2	77.3	75.4	79.3	79.1	81.2	80.9	69.5	63.2	60.1	57.5	56.5	54.8	57.6	61.0	64.2	66.2	68.0	68.4	69.6	68.6	68.2	69.7	83.2
17-Feb	67.6	72.0	73.4	73.8	73.0	71.7	73.1	74.1	73.4	73.0	71.4	72.5	72.0	72.7	73.7	73.6	73.3	72.3	71.8	70.3	69.8	70.2	71.7	72.6	72.2	74.1
18-Feb	71.5	70.1	70.2	70.4	71.0	71.7	71.8	70.3	70.1	69.8	67.2	63.9	62.4	62.6	61.9	59.6	61.1	62.5	69.7	73.1	72.3	72.6	71.9	71.5	68.3	73.1
19-Feb	72.1	72.3	72.2	72.0	72.5	72.4	73.0	72.8	72.3	67.9	63.7	61.9	60.4	59.0	57.2	58.0	60.9	66.2	68.7	69.1	67.3	66.3	66.4	65.7	67.1	73.0
20-Feb	63.9	65.2	66.2	68.3	73.1	76.7	77.0	75.7	73.3	67.7	63.0	57.4	54.7	50.7	47.4	49.5	53.5	62.8	76.6	79.6	80.4	79.6	78.8	78.4	67.5	80.4
21-Feb	79.7	80.2	79.1	78.4	77.7	77.2	77.8	78.1	77.5	77.0	76.2	73.2	68.6	65.7	63.0	66.6	71.3	73.6	76.2	76.9	77.7	77.0	75.2	74.6	74.9	80.2
22-Feb	75.6	76.0	75.8	74.7	72.4	73.2	73.0	74.2	73.2	69.7	68.8	69.6	67.8	67.7	67.7	68.3	72.4	75.2	75.0	74.5	75.2	76.1	76.5	77.0	72.9	77.0
23-Feb	78.6	77.5	78.0	79.4	79.0	80.5	81.7	81.6	81.8	79.1	77.3	72.0	69.6	70.0	70.9	72.9	72.4	71.9	75.7	78.4	79.8	81.3	81.4	82.3	77.2	82.3
24-Feb	82.7	81.5	82.6	81.9	80.0	81.0	80.7	80.1	79.0	77.7	74.3	64.7	60.1	59.4	62.6	64.1	65.9	68.1	69.9	70.6	70.7	78.2	85.1	85.9	74.4	85.9
25-Feb	86.6	87.1	87.9	88.6	89.9	90.4	90.5	90.1	91.1	88.4	88.1	82.9	76.2	68.3	66.4	70.9	79.9	89.7	92.7	93.7	94.4	95.8	96.2	96.0	86.7	96.2
26-Feb	97.1	97.5	97.1	96.7	96.8	95.7	95.8	94.6	92.5	86.6	88.0	92.5	85.0	85.1	79.8	78.3	78.1	80.9	77.8	76.5	73.3	74.3	76.5	76.7	86.4	97.5
27-Feb	78.2	79.5	79.6	79.8	80.5	79.8	78.9	78.0	77.7	76.1	74.6	69.9	67.0	65.2	64.3	63.3	63.3	66.0	72.8	76.4	77.0	75.0	75.7	74.9	73.9	80.5
28-Feb	75.1	74.2	74.8	75.5	76.7	77.1	76.5	76.2	74.6	72.4	71.5	66.8	63.3	60.4	58.1	56.2	58.7	62.2	65.7	67.2	69.4	71.6	72.9	74.1	69.6	77.1
	77.2	77.7	78.9	79.0	79.0	79.7	80.1	80.6	80.3	77.9	75.5	72.3	69.2	67.3	65.2	65.1	67.2	70.6	73.6	74.9	75.5	76.1	76.7	76.8	Diurnal Average	
	97.1	97.5	97.8	97.7	96.8	95.7	96.0	97.0	97.1	96.9	97.4	96.4	95.3	95.2	96.2	96.7	97.7	98.0	97.9	97.8	97.4	96.1	96.2	96.2	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Blackrod - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	13	1.93	1.93
40 - 60	83	12.35	14.29
60 - 80	329	48.96	63.24
80 - 100	247	36.76	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Blackrod - February 2026

Maximum Speed: 26 km/h on Feb 4 03:00

Maximum Daily Speed Average: 21.1 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 7 07:00

Minimum Daily Speed Average: 1.5 km/h on Feb 9

Maximum Diurnal Speed Average: 4.5 km/h at hour 3

Minimum Diurnal Speed Average: 1.0 km/h at hour 18

Monthly Average Velocity: 3.0 km/h 184.1 deg

Percentiles: P_1 = 1 P_{10} = 4 Q_1 = 7 Median = 10 Q_3 = 14 P_{90} = 19 P_{99} = 25

Hours in Service: 672

Hours of Data: 672

Hours of Missing Data: 0

Percent Operational Time: 100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	SSE4	SE3	SSE5	S6	S8	S10	S10	S13	S14	S18	S20	S19	S15	S16	S16	SSE11	S11	SSE8	SSE11	S15	S19	S21	S19	S19	S12.9	S21
2-Feb	S18	S17	S18	S18	S19	S19	S17	S18	S17	S17	S16	S15	SSW14	S13	S16	S15	S14	S12	S10	S10	S9	SSE5	N5	NNE4	S13.1	S19
3-Feb	SSW1	N7	N9	N15	N15	N13	N9	N7	NNW5	NW3	S5	S8	S9	S9	S10	S13	S16	S20	S20	S24	S23	S23	S24	S24	S6.2	S24
4-Feb	S24	S24	S26	SSE26	S24	S17	S17	S16	S13	S9	S8	S11	S12	W11	WNW21	WNW14	WNW10	WSW5	SSW5	SSW8	SSW6	W8	SSW7	S12	SSW10.7	S26
5-Feb	S10	S12	S14	SSW11	W12	WNW19	WNW16	WNW15	NNW19	N18	NNE15	N16	NNE12	N11	N9	NNE8	NNE7	NE7	ENE4	ESE1	SSE2	NE1	SSW4	S8	NNW3.9	NNW19
6-Feb	S8	SSW7	S12	S14	S8	S10	S7	S12	S11	S12	S14	S16	S12	S9	S8	S9	S4	S3	S13	S18	S21	S20	S18	S9	S11.5	S21
7-Feb	SSE11	S9	S6	S4	SSW4	NW1	N0	NNE2	N1	NNE5	N8	N7	NNW9	N8	N8	N8	NNE7	NNE8	NNE8	NNE6	N6	N4	NNW3	NNW3	N2.8	SSE11
8-Feb	NE2	NNE5	WSW3	SW7	S8	SSW9	S10	S7	SSW7	WNW8	NNW12	NW11	NNW12	NNW11	NNW12	NW14	NW12	NW11	NNW11	NNW11	NNW10	N11	N7	NNE6	NW5.0	NW14
9-Feb	ENE4	SE3	S8	SSE11	S14	S16	S13	S13	S12	S10	S9	S9	W4	WNW8	NW9	N10	NNE8	NNE9	NNE10	NNE9	NNE8	N9	NNE7	N6	SSE1.5	S16
10-Feb	N4	N4	N4	WNW1	SSW3	SW1	SSW5	S6	S15	S17	S16	S16	S16	S16	S16	S15	S14	SSE14	SSE15	SSE14	S13	S13	S13	S12	S9.8	S17
11-Feb	S12	S13	S12	S13	S12	S14	S13	S14	S12	S15	S14	SSW12	WSW15	SW15	WSW15	SW13	SW11	SSW10	SSW9	S11	S12	S11	S10	SSW11	SSW11.7	SW15
12-Feb	SSW11	SSW11	SSW11	S9	S8	S10	S6	SSE5	SSE9	S11	S14	S15	SSW14	SW14	SSW14	SSW19	S17	S17	S18	S16	S20	SSW15	SSW10	SSW10	S12.2	S20
13-Feb	SSW9	S9	S11	S11	SSW10	SSW11	SSW11	S11	S9	SW10	SW10	WSW10	WNW16	WNW15	W15	WSW13	SW14	SSW10	S10	S9	S9	S8	SSE8	S8	SSW8.5	WNW16
14-Feb	S8	SSE9	SSE4	SSE4	SSW8	S9	S9	S10	S7	S9	S8	S9	W8	WNW10	WNW14	WNW14	WNW12	WNW9	W4	SSE3	SSE6	SSE4	SSE4	SSE5	SSW4.4	WNW14
15-Feb	S8	S6	SSE2	NW1	NNW4	WSW2	SSW3	NW4	NNW5	NNW6	NNE3	N4	N8	N12	NNE14	NNE11	NNE8	N9	NNE9	NNE9	NE11	NE11	NE6	NE6	NNE4.7	NNE14
16-Feb	NNE8	NNE7	NNE6	ENE6	ENE6	NE7	E3	SSE1	ENE1	NE7	ENE9	NE9	NE9	NE10	NE10	NE13	NE12	NE13	NE14	NE11	NE12	NE16	NNE15	NNE16	NE8.9	NNE16
17-Feb	NNE15	NNE14	NNE16	NNE18	NNE19	NNE21	NNE20	NNE22	NNE22	NNE24	NNE24	N25	NNE26	NNE25	NNE23	NNE24	NNE23	NNE25	NNE24	NNE21	NNE20	NNE20	NNE20	NNE18	NNE21.1	NNE26
18-Feb	NNE19	N21	N20	N21	N20	N18	N18	N19	N17	N18	N18	N16	N12	NNW10	N10	NNW11	NNW12	NNW8	E1	SE1	SSE3	SSE4	SSE3	SSE2	N11.3	N21
19-Feb	SSE6	SSE7	SSE7	S10	S11	S11	S10	S9	S11	S12	S12	S14	SSW14	S15	S14	S14	S13	S13	S16	S17	S16	S16	SSE16	S17	S12.4	S17
20-Feb	S16	S17	S15	S11	SSW6	SSW4	SSW2	S12	SSW14	SSW14	S14	S13	SSW12	SSW8	SSW6	SW6	SSW6	S6	SE4	SE2	SE1	SE1	ESE2	ENE2	S7.6	S17
21-Feb	NNE5	NNE7	NNE8	NNE10	NNE10	NNE8	N8	N8	N8	N9	N11	NNE10	NNE10	N10	NNE12	NNE11	N12	NNE11	NNE10	NE10	NE6	ENE6	ENE9	E4	NNE8.5	N12
22-Feb	ESE4	ENE5	ESE5	ESE3	SE5	SE7	SE5	SE4	SE7	SE8	SSE11	SSE8	SE10	SSE12	SE9	SE9	ESE8	E5	SE7	SE9	SSE11	SSE9	SSE8	SSE9	SE7.0	SSE12
23-Feb	S8	S8	S10	SSW8	S6	S8	SSE8	S6	SSE6	S7	SSW6	W5	WNW5	WSW4	WNW7	NNW8	NNW10	NW10	NNW7	NNW6	NNW5	SW1	SSE3	SSE3	SW2.6	NW10
24-Feb	S4	WSW4	SW3	SSW2	SSE4	SSE6	S8	S10	S10	S9	S11	S8	SW10	SSW12	SSW10	SSW12	SSW11	S10	SSE10	SSE12	S14	S14	S17	SSE18	S9.1	SSE18
25-Feb	S16	S16	S17	S13	SSW11	SSW8	W7	NW11	N6	NNW1	WSW6	S9	S10	SSW8	SSW6	SSW9	SW8	S4	SE4	SE3	ESE1	E1	S3	SSE6	SSW5.6	S17
26-Feb	SSE8	S10	S11	S11	SSW11	SSW10	SSW11	SSW9	SSW9	WSW14	SW10	WNW18	NW21	N20	NNW25	NNW22	NW21	NW20	NW24	NNW23	NNW24	NNW20	NNW18	N15	NW8.6	NNW25
27-Feb	NNW15	N13	NNW9	NW8	NNW6	NNW7	N10	N7	N8	N11	N8	NNW8	N8	N9	N9	N9	NNE9	NNE9	ENE4	E3	E6	ESE3	SSE1	SSE2	N6.4	NNW15
28-Feb	SSE3	SE2	SSE3	SSE5	SSE8	S12	S12	S12	S14	S17	S18	S20	S20	S23	S25	S26	S23	S21	S19	SSE20	SSE19	S15	SSE17	S15	S15.1	S26
	SSE4.4	SSE3.7	S4.5	S4.3	S3.9	S4.0	S3.7	S3.8	S3.7	SSW3.4	S4.0	SSW3.9	SW2.9	WSW2.5	W2.8	WSW1.9	WSW1.6	SSW1.0	SSE2.5	SSE3.7	SSE4.1	SSE3.3	SSE3.8	SSE4.3	Diurnal Average	
	S24	S24	S26	SSE26	S24	NNE21	NNE20	NNE22	NNE22	NNE24	NNE24	N25	NNE26	NNE25	NNW25	S26	NNE23	NNE25	NNE24	S24	NNW24	S23	S24	S24	Diurnal Maximum	

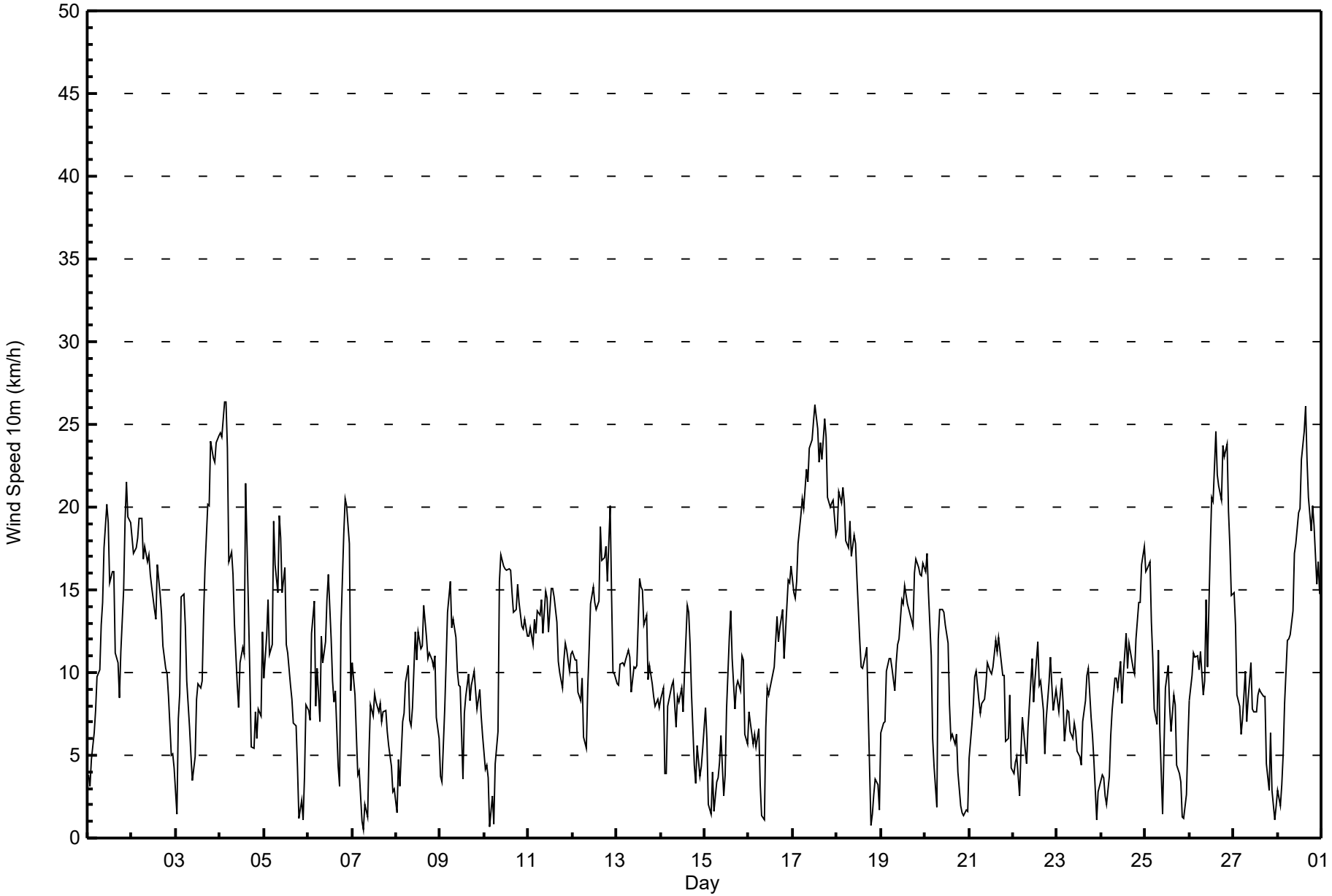
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Blackrod - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	114	16.96	16.96
6 - 11	295	43.90	60.86
12 - 19	205	30.51	91.37
20 - 28	58	8.63	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Blackrod - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	8	6	2	6	6	7	12	26	7	10	3	5	3	2	4	7	114
6 - 11	35	34	13	5	1	1	8	27	89	39	8	2	4	6	6	17	295
12 - 19	16	13	6	0	0	0	0	9	119	12	4	4	2	10	2	8	205
20 - 28	6	17	0	0	0	0	0	2	23	0	0	0	0	1	3	6	58
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	65	70	21	11	7	8	20	64	238	61	15	11	9	19	15	38	672

Total Number of Valid Hours: 672

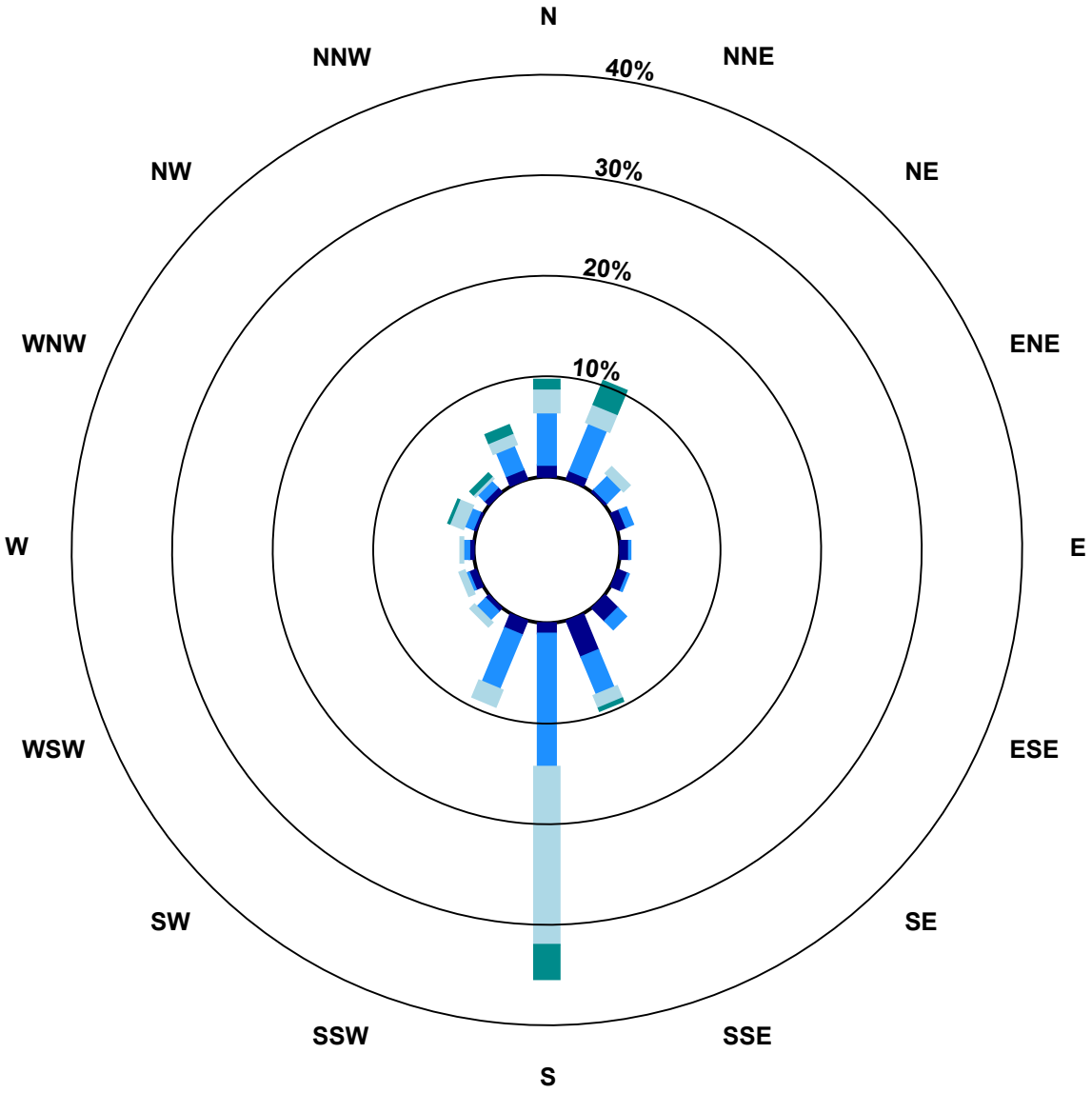
Total Number of Hours: 672

Wood Buffalo Environmental Association

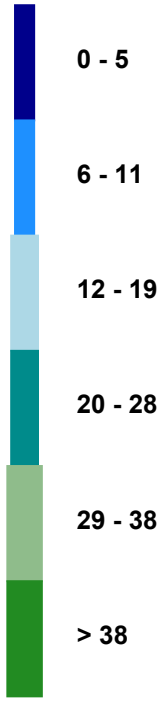
Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Blackrod



Classes (km/h)



Total Number of Valid Hours: 672

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 7 km/h on Feb 17 14:00

Minimum Value: 1 km/h on Feb 20 20:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	1	1	1	2	2	2	3	4	4	4	4	4	3	4	3	3	2	3	4	4	4	3	4	4
2-Feb	4	3	3	3	3	3	3	3	2	2	3	2	3	2	2	2	2	2	2	1	1	2	2	1	4
3-Feb	2	2	2	3	3	3	2	3	2	2	1	3	2	2	2	3	3	3	4	4	4	4	4	4	4
4-Feb	4	4	5	4	4	4	2	2	2	2	1	2	2	5	7	6	3	2	2	1	1	3	2	2	7
5-Feb	2	3	3	3	5	5	4	5	5	5	3	4	2	2	3	2	2	2	2	1	2	2	2	2	5
6-Feb	3	4	3	4	5	3	2	2	2	3	3	3	4	2	2	3	2	1	4	2	3	3	3	1	5
7-Feb	2	2	2	2	2	1	1	1	1	1	1	2	3	2	2	2	2	2	2	2	1	1	1	2	3
8-Feb	1	1	1	2	2	3	2	1	1	3	3	2	3	3	3	4	3	3	2	3	2	3	2	1	4
9-Feb	1	1	3	2	2	2	2	3	2	1	1	2	2	3	2	2	1	2	2	2	2	2	2	1	3
10-Feb	2	1	1	1	1	1	2	5	2	3	2	2	3	3	3	2	2	2	2	2	3	2	2	2	5
11-Feb	2	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	2	2	2	1	2	2	2	2	4
12-Feb	2	2	2	2	1	1	2	2	1	2	2	2	4	3	3	3	3	3	3	3	3	4	2	2	4
13-Feb	2	2	2	1	1	1	1	2	2	2	3	3	4	4	5	3	4	2	2	2	1	1	1	1	5
14-Feb	1	1	2	1	1	1	2	2	3	1	2	1	3	3	4	4	3	2	2	1	1	1	2	3	4
15-Feb	1	2	1	1	2	1	1	1	1	2	1	2	2	3	3	3	2	1	2	2	2	3	2	1	3
16-Feb	2	2	2	2	2	1	3	1	1	2	3	2	2	3	3	3	3	5	6	4	4	5	4	5	6
17-Feb	4	3	3	4	5	5	5	5	5	6	6	6	6	7	6	6	6	6	6	6	5	5	5	4	7
18-Feb	5	4	4	4	4	3	3	4	4	3	3	4	3	3	3	4	3	3	1	2	2	1	1	2	5
19-Feb	1	1	1	1	1	1	1	1	1	2	2	3	3	3	3	3	3	2	4	3	3	2	2	2	4
20-Feb	3	2	2	2	1	2	2	3	2	2	4	3	3	3	2	2	2	1	2	1	1	1	1	1	4
21-Feb	2	3	1	2	2	2	2	1	1	2	2	2	2	3	3	2	3	3	2	3	2	3	3	3	3
22-Feb	2	2	3	1	2	2	2	2	2	3	2	3	4	3	3	3	3	2	3	3	3	2	2	2	4
23-Feb	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	3	2	1	2	2	1	1	3
24-Feb	1	2	1	1	1	1	1	1	1	1	2	2	3	3	3	3	2	2	1	2	2	2	3	3	3
25-Feb	3	2	3	2	2	2	3	3	2	2	2	2	2	3	2	3	2	1	1	1	1	1	1	3	3
26-Feb	1	2	1	2	2	3	2	2	4	6	6	5	6	4	5	5	6	5	6	6	6	5	4	3	6
27-Feb	3	3	2	2	1	1	2	2	2	3	3	2	3	3	3	3	2	2	2	2	2	2	1	2	3
28-Feb	2	1	1	1	2	2	2	2	2	2	3	4	4	4	5	4	4	3	3	3	3	2	3	3	5
	5	4	5	4	5	5	5	5	5	6	6	6	6	7	7	6	6	6	6	6	6	5	5	5	
	Diurnal Maximum																								

Direction of Maximum Speed: 177 deg on Feb 4 03:00

Direction of Maximum Daily Speed Average: 18.3 deg on Feb 17

Direction of Minimum Speed: 356 deg on Feb 7 07:00

Direction of Minimum Daily Speed Average: 1.5 deg on Feb 9

Monthly Average Direction: 184.1 deg

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	162	139	159	183	174	170	170	177	179	177	183	181	173	178	174	159	172	168	163	173	173	178	180	177	174.6
2-Feb	176	182	181	177	175	173	181	175	179	182	186	188	192	190	185	178	173	177	179	175	174	162	7	21	179.1
3-Feb	212	8	8	357	357	349	351	359	327	318	180	181	172	173	172	176	179	179	180	179	176	174	178	176	178.8
4-Feb	178	173	177	167	181	188	182	184	182	184	189	185	184	260	294	301	294	252	196	192	204	280	196	182	195.9
5-Feb	172	171	186	195	271	291	292	303	327	357	12	351	12	7	7	21	31	36	71	122	156	41	206	177	328.4
6-Feb	184	200	177	171	175	183	179	184	177	175	183	181	185	182	173	178	180	176	184	184	180	180	176	189	180.5
7-Feb	163	174	170	190	195	320	356	19	5	19	9	7	343	357	9	10	12	14	13	15	4	352	341	327	9.2
8-Feb	44	17	240	217	187	198	186	191	193	298	331	322	337	341	334	322	311	319	344	334	339	10	11	30	321.3
9-Feb	59	138	183	166	173	178	176	177	178	182	182	189	266	292	309	352	21	29	30	29	18	1	16	11	158.2
10-Feb	359	349	5	283	207	236	198	175	170	173	180	180	179	185	188	186	176	164	161	163	172	175	183	178	177.0
11-Feb	180	180	180	182	180	180	181	183	190	184	185	193	237	235	238	234	230	208	200	184	180	188	185	195	196.3
12-Feb	211	210	201	190	188	179	173	165	166	175	181	186	211	215	207	195	183	179	169	178	187	210	210	212	191.2
13-Feb	209	190	187	189	193	197	196	188	187	214	227	246	287	291	275	248	227	208	190	179	177	169	167	171	212.7
14-Feb	174	166	155	157	193	173	179	180	180	185	183	189	264	292	291	290	299	298	279	168	161	149	161	161	211.1
15-Feb	173	173	150	313	341	240	210	306	346	348	24	11	356	10	20	24	26	1	13	27	34	39	34	36	17.5
16-Feb	31	25	19	62	75	55	81	167	75	51	64	48	53	46	39	39	40	38	41	34	44	35	32	29	42.2
17-Feb	31	15	16	22	20	22	16	14	17	13	16	10	14	18	17	23	22	22	22	22	19	18	18	14	18.3
18-Feb	14	9	8	5	6	3	3	5	5	2	6	353	357	346	0	333	341	330	100	146	164	162	162	158	1.9
19-Feb	164	167	167	186	186	186	180	177	185	187	188	185	195	190	188	187	180	175	169	175	175	170	168	169	179.4
20-Feb	171	170	173	178	193	199	196	188	193	192	189	191	198	193	208	214	212	189	144	127	127	124	102	68	184.4
21-Feb	25	32	22	30	31	24	11	10	6	3	3	18	14	6	14	17	8	21	31	34	37	69	67	86	22.4
22-Feb	106	59	106	102	131	143	137	133	136	144	158	154	142	148	136	142	110	101	142	144	149	156	155	161	139.5
23-Feb	177	180	191	197	177	188	159	169	165	190	205	260	290	254	299	338	327	321	334	336	327	225	160	168	227.1
24-Feb	189	248	229	192	156	168	181	182	187	185	191	191	214	197	198	201	200	191	167	166	171	174	173	164	184.2
25-Feb	171	177	179	191	201	196	277	312	10	330	252	180	187	208	195	198	230	188	135	142	119	84	187	159	194.0
26-Feb	167	174	179	182	192	193	208	196	201	252	228	297	320	354	334	348	326	307	312	330	329	332	344	354	306.6
27-Feb	348	354	337	326	348	341	2	2	357	356	1	335	357	2	2	357	23	29	59	92	85	111	148	151	2.0
28-Feb	152	142	147	157	168	175	172	170	179	184	185	182	185	185	187	186	188	183	180	168	166	185	163	171	178.4
	165.5	166.1	173.6	174.3	180.4	186.6	188.3	186.7	182.5	192.2	188.5	202.9	233.2	246.8	265.3	253.7	246.0	203.3	152.3	158.1	161.3	164.3	159.9	161.6	
	Diurnal Average																								

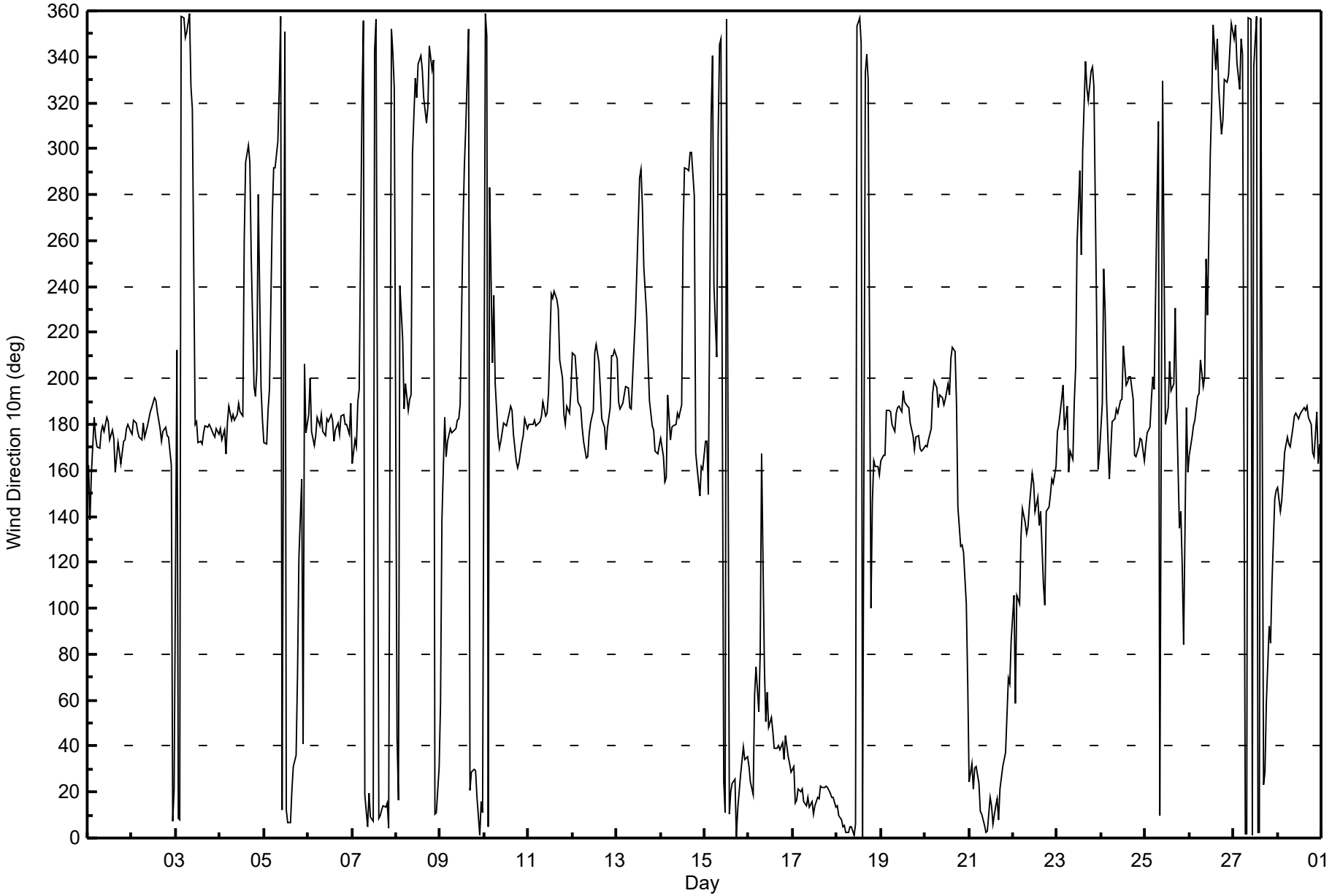
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Blackrod - February 2026



Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 98 deg on Feb 10 06:00

Minimum Value: 7 deg on Feb 4 08:00

Percentiles: P_1 = 8 P_{10} = 10 Q_1 = 12 Median = 15 Q_3 = 20 P_{90} = 35 P_{99} = 82

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	28	20	28	12	15	13	13	14	16	15	13	13	17	16	17	20	17	20	17	14	14	15	13	13	28
2-Feb	13	12	11	13	12	12	14	13	10	11	17	13	13	12	8	12	12	14	8	8	11	24	35	42	42
3-Feb	73	19	13	12	13	13	14	25	29	59	30	26	21	15	16	14	12	12	13	12	13	12	11	12	73
4-Feb	12	13	15	13	16	15	8	7	8	10	11	10	10	36	16	15	16	35	22	12	16	32	38	10	38
5-Feb	15	10	15	12	38	16	14	16	16	28	14	15	14	17	21	17	18	12	55	86	46	81	53	14	86
6-Feb	25	34	16	18	48	18	18	15	17	16	12	14	18	19	15	16	16	26	9	9	10	11	14	15	48
7-Feb	12	13	15	42	23	83	87	45	80	27	9	17	20	19	14	15	12	13	11	16	14	25	46	31	87
8-Feb	57	19	55	14	23	20	11	15	16	44	15	17	15	17	19	16	16	20	17	15	16	12	16	12	57
9-Feb	25	48	19	11	10	11	15	19	12	10	9	10	59	22	25	23	12	12	13	15	13	16	16	13	59
10-Feb	28	28	20	91	45	98	63	82	10	11	11	11	12	12	10	11	11	9	8	13	20	12	12	10	98
11-Feb	9	9	12	9	9	9	9	9	9	12	11	17	19	17	19	18	18	12	13	8	10	11	9	13	19
12-Feb	13	13	11	12	12	9	15	13	9	10	10	13	20	18	15	12	10	11	11	11	14	17	15	17	20
13-Feb	18	13	10	9	9	9	9	10	14	15	17	26	20	19	20	30	15	15	12	14	8	8	9	9	30
14-Feb	8	8	22	25	45	11	15	20	33	12	11	13	41	22	16	18	14	11	36	46	15	27	19	51	51
15-Feb	14	20	37	83	30	79	52	48	16	18	34	32	15	14	13	14	14	14	15	15	11	14	15	17	83
16-Feb	12	14	14	25	19	13	49	69	55	13	18	19	20	22	26	17	14	14	18	21	19	14	14	15	69
17-Feb	14	13	14	14	13	14	14	13	13	12	14	13	13	14	13	14	14	13	14	15	13	14	13	13	15
18-Feb	13	11	14	13	12	13	13	13	12	13	13	16	19	23	20	25	16	13	61	35	19	15	13	44	61
19-Feb	9	9	10	10	8	9	8	8	10	14	11	13	15	14	17	15	15	12	10	11	10	11	9	10	17
20-Feb	11	10	9	10	15	24	31	10	9	11	13	17	17	21	20	25	23	19	35	26	31	59	55	41	59
21-Feb	13	9	13	11	10	14	15	9	13	13	14	15	20	19	18	21	17	17	13	12	15	31	24	54	54
22-Feb	33	31	47	51	39	22	26	30	28	24	15	26	24	19	29	29	30	36	27	20	18	16	16	17	51
23-Feb	14	15	13	15	13	10	11	12	16	17	17	40	46	57	26	18	20	14	14	12	16	73	17	24	73
24-Feb	22	40	56	49	17	10	10	10	10	12	11	21	22	19	17	15	14	11	9	9	11	11	12	12	56
25-Feb	13	12	13	12	13	15	31	26	17	90	45	13	16	25	31	22	17	28	36	25	71	60	54	44	90
26-Feb	11	12	11	13	16	13	15	12	22	25	43	18	24	14	16	16	19	15	15	15	14	13	13	13	43
27-Feb	12	12	21	17	10	10	12	13	16	14	22	26	23	26	26	24	23	14	26	25	14	50	34	34	50
28-Feb	18	14	9	10	9	9	9	11	10	10	11	13	15	14	14	11	11	10	10	11	10	11	14	12	18
	73	48	56	91	48	98	87	82	80	90	45	40	59	57	31	30	30	36	61	86	71	81	55	54	
	Diurnal Maximum																								

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS33
MONDAY CREEK
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - MONDAY CREEK (AMS33)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	641	31	31	100	12.7	0	2.1	0
H2S (ppb) Average	639	33	33	100	0.7	0	0.3	0
NO2 (ppb) Average	594	33	78	93.3	33.8	0	10.8	-
NO (ppb) Average	594	33	78	93.3	67.3	-	22.1	-
NOX (ppb) Average	594	33	78	93.3	83.2	-	31.9	-
Temperature 2 m (C) Average	672	0	0	100	10	-	4.4	-
Relative Humidity (%) Average	672	0	0	100	97.9	-	93.8	-
Wind Speed 10 m (km/h) Average	672	0	0	100	26	-	19	-
Wind Direction 10 m (deg) Average	672	0	0	100	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - MONDAY CREEK (AMS33)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	641	0.82	1.2	-	0	0	0.2	0.5	1	1.9	12.7
H2S (ppb) Average	639	0.13	0.1	-	0	0	0.1	0.1	0.2	0.2	0.7
NO2 (ppb) Average	594	4.27	4.1	-	0.1	1.1	1.8	2.8	5.1	9.1	33.8
NO (ppb) Average	594	1.67	6.4	-	0	0	0	0.2	0.8	2.7	67.3
NOX (ppb) Average	594	5.94	9.4	-	0.2	1.3	2.1	3.3	5.9	11.6	83.2
Temperature 2 m (C) Average	672	-11.04	10.7	-	-39.3	-26.1	-18.8	-8.7	-3	1.8	10
Relative Humidity (%) Average	672	74.58	14.2	-	28.8	55.1	67.8	74.8	85.8	92.9	97.9
Wind Speed 10 m (km/h) Average	672	8.8	5	-	0	3	5	8	12	16	26
Wind Direction 10 m (deg) Average	672	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - MONDAY CREEK (AMS33)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
NOX/NO/NO2	17 Feb 2026 15:00	19 Feb 2026 11:00	45	Maintenance - replaced analzyer

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Monday Creek - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 12.7 ppb on Feb 13 04:00

Maximum Daily Average: 2.1 ppb on Feb 12

Minimum Value: 0.0 ppb on Feb 2 22:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 1.2 ppb at hour 10

Minimum Diurnal Average: 0.5 ppb at hour 6

Monthly Average: 0.82 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.2 Median = 0.5 Q_3 = 1.0 P_{90} = 1.9 P_{99} = 6.2

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.0	1.1	0.5	0.4	0.3	0.2	0.4	0.5	0.6	0.6	0.6	0.6	0.5	0.4	0.6	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	2.0
2-Feb	0.3	Z	0.5	0.5	0.5	0.6	0.6	0.3	0.4	0.3	0.4	0.8	1.2	1.5	0.9	0.8	0.8	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.5	1.5
3-Feb	0.0	0.0	Z	0.5	1.1	2.8	2.8	2.3	2.0	1.8	0.5	0.5	1.5	1.8	0.9	0.6	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.9	2.8
4-Feb	0.1	0.1	0.2	Z	1.1	0.4	1.0	1.6	8.6	7.5	2.1	0.6	6.4	1.8	0.6	0.8	1.7	0.2	0.1	1.7	4.6	0.6	1.3	4.2	2.1	8.6
5-Feb	0.8	1.0	1.1	1.0	Z	0.3	0.0	0.0	0.0	0.0	0.2	0.6	0.7	0.1	0.5	1.0	1.3	1.7	1.2	0.9	1.1	1.7	2.1	2.3	0.9	2.3
6-Feb	2.8	2.2	1.8	0.8	0.5	Z	0.4	0.3	0.3	0.3	0.2	0.3	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.6	0.7	2.8
7-Feb	Z	0.5	0.6	0.6	0.3	0.1	0.1	0.2	0.0	0.1	0.6	2.2	3.8	2.5	1.9	1.1	0.9	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.7	3.8
8-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.2	0.2	0.1	0.3
9-Feb	0.0	0.3	Z	0.3	0.4	0.2	0.4	0.5	0.3	0.3	0.4	0.8	1.4	1.5	1.3	1.0	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.6	1.5
10-Feb	0.3	0.3	0.3	Z	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.4	1.4	0.7	0.8	1.8	1.3	0.5	0.4	0.5	1.4	2.3	1.9	1.1	0.7	2.3
11-Feb	2.6	1.8	1.9	1.8	Z	1.9	2.4	2.4	2.2	1.9	3.5	2.5	2.5	2.2	1.0	1.3	1.1	0.7	1.0	1.4	1.6	1.8	3.1	2.8	2.0	3.5
12-Feb	2.8	1.0	1.3	2.5	6.0	Z	6.5	1.5	1.3	2.7	2.1	2.8	0.4	1.9	1.7	1.4	0.7	0.7	0.2	0.6	1.3	1.0	5.5	2.6	2.1	6.5
13-Feb	Z	2.0	8.5	12.7	2.7	2.0	2.1	1.9	1.0	9.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	1.3	0.9	0.4	0.2	0.0	2.1	12.7
14-Feb	0.0	Z	0.4	0.2	0.2	0.1	0.0	0.2	0.0	0.5	3.0	2.0	0.2	0.0	0.2	0.4	0.0	0.0	0.0	0.2	3.8	2.6	1.1	0.7	0.7	3.8
15-Feb	0.4	0.1	Z	0.7	0.2	0.1	0.1	0.2	0.1	0.2	0.7	2.1	1.2	1.0	1.0	0.8	0.6	1.0	1.4	1.0	1.7	5.3	5.8	3.5	1.3	5.8
16-Feb	2.7	1.3	0.5	Z	0.3	0.2	0.3	0.1	0.2	0.3	0.2	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	2.7
17-Feb	0.0	0.2	0.2	0.6	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
18-Feb	0.0	0.0	0.0	0.1	0.1	Z	0.1	0.1	0.1	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.5	0.4	0.3	0.3	0.7
19-Feb	Z	0.2	0.2	0.2	0.4	0.2	0.1	0.4	0.4	0.8	1.4	0.3	0.7	1.1	1.3	1.9	1.5	0.5	0.4	0.3	0.2	0.0	0.1	0.1	0.5	1.9
20-Feb	0.2	Z	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.3	2.6	3.6	3.8	3.5	4.7	5.1	4.0	3.8	1.6	0.6	0.5	0.6	0.3	0.5	1.6	5.1
21-Feb	0.5	0.7	Z	1.1	0.7	0.4	0.4	0.6	0.5	0.5	0.9	0.4	0.6	0.7	0.6	1.2	0.3	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.5	1.2
22-Feb	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.3	0.4	0.3	0.4	0.3	0.3	0.2	0.4
23-Feb	0.5	0.4	0.4	0.5	Z	0.5	0.6	0.5	0.8	1.2	0.5	0.9	0.8	0.8	0.7	0.6	0.7	0.7	0.6	0.5	0.6	0.2	0.2	0.1	0.6	1.2
24-Feb	0.2	0.5	0.5	0.5	0.1	Z	0.4	0.2	1.4	1.0	1.4	1.7	0.9	0.6	0.9	1.0	0.7	0.2	0.4	0.4	0.5	0.4	0.3	0.3	0.6	1.7
25-Feb	Z	0.2	0.3	0.6	0.9	0.7	0.8	0.5	0.4	0.5	0.4	0.2	0.5	1.0	0.4	0.4	0.4	0.9	0.4	0.1	0.0	0.0	0.0	0.0	0.4	1.0
26-Feb	0.5	Z	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.4	0.2	0.1	0.3	0.6	1.2	1.7	1.9	2.2	1.2	0.6	0.9	0.5	0.6	2.2
27-Feb	0.4	0.4	Z	0.4	0.5	1.1	1.6	1.2	1.6	0.8	0.8	0.7	0.6	0.6	0.5	0.5	0.8	0.7	0.5	0.6	0.3	0.2	0.2	0.1	0.7	1.6
28-Feb	0.2	0.2	0.1	Z	0.2	0.1	0.0	0.1	0.2	0.8	1.4	1.1	1.6	1.0	0.7	0.8	0.5	1.3	0.7	1.4	0.5	0.5	1.0	1.6	0.7	1.6
	0.7	0.7	0.9	1.1	0.7	0.5	0.8	0.6	0.8	1.2	1.0	1.0	1.1	1.0	0.8	0.9	0.7	0.7	0.5	0.6	0.8	0.7	0.9	0.8	Diurnal Average	
	2.8	2.2	8.5	12.7	6.0	2.8	6.5	2.4	8.6	9.6	3.5	3.6	6.4	3.5	4.7	5.1	4.0	3.8	1.9	2.2	4.6	5.3	5.8	4.2	Diurnal Maximum	

Z - zerospan C - Calibration

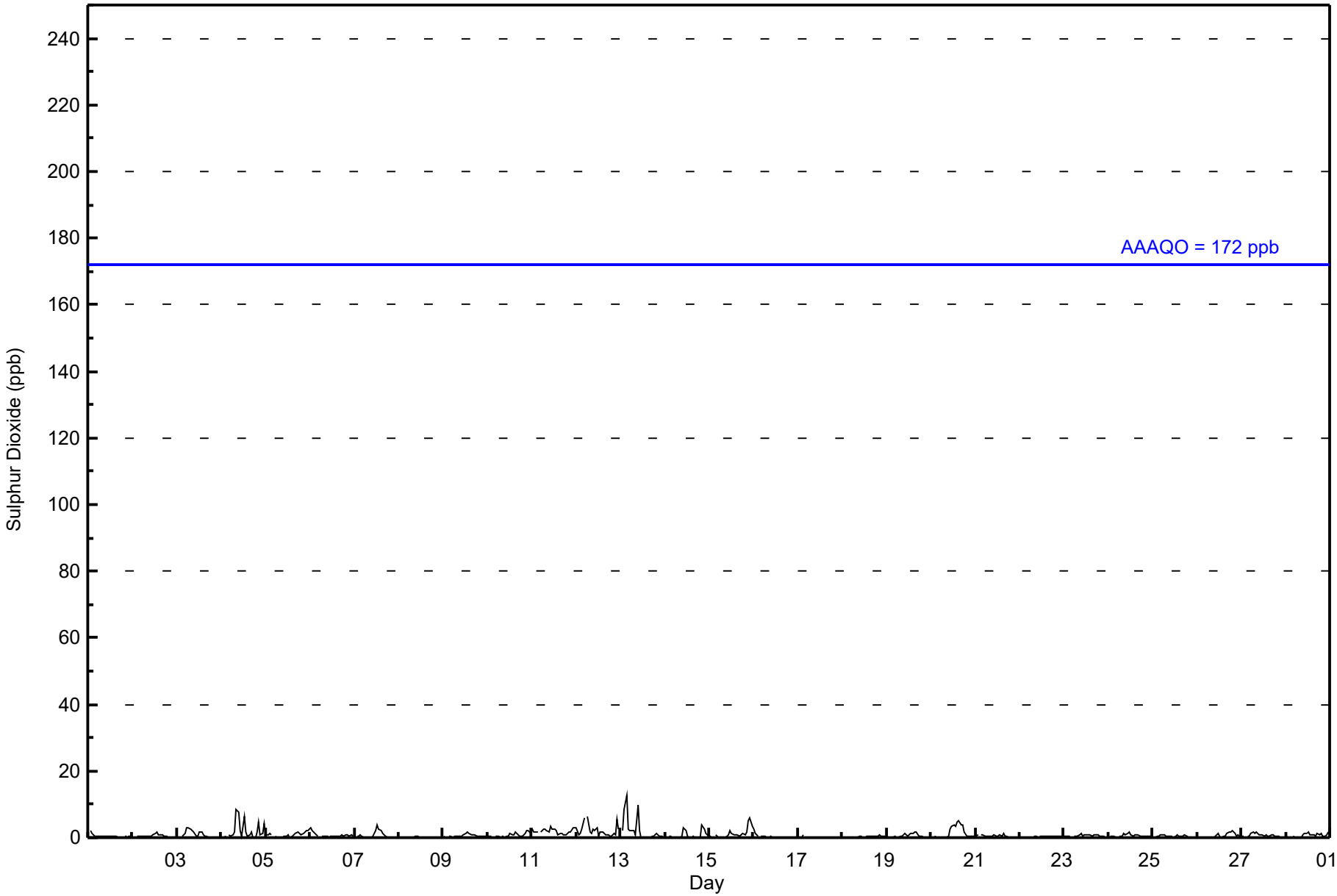
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Monday Creek - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Monday Creek - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	640	99.84	99.84
11 - 20	1	0.16	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Monday Creek - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	20	49	64	56	27	28	40	23	31	41	48	53	63	42	28	27	640
11 - 20	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	20	49	64	56	27	28	40	23	31	41	48	54	63	42	28	27	641

Total Number of Valid Hours: 641

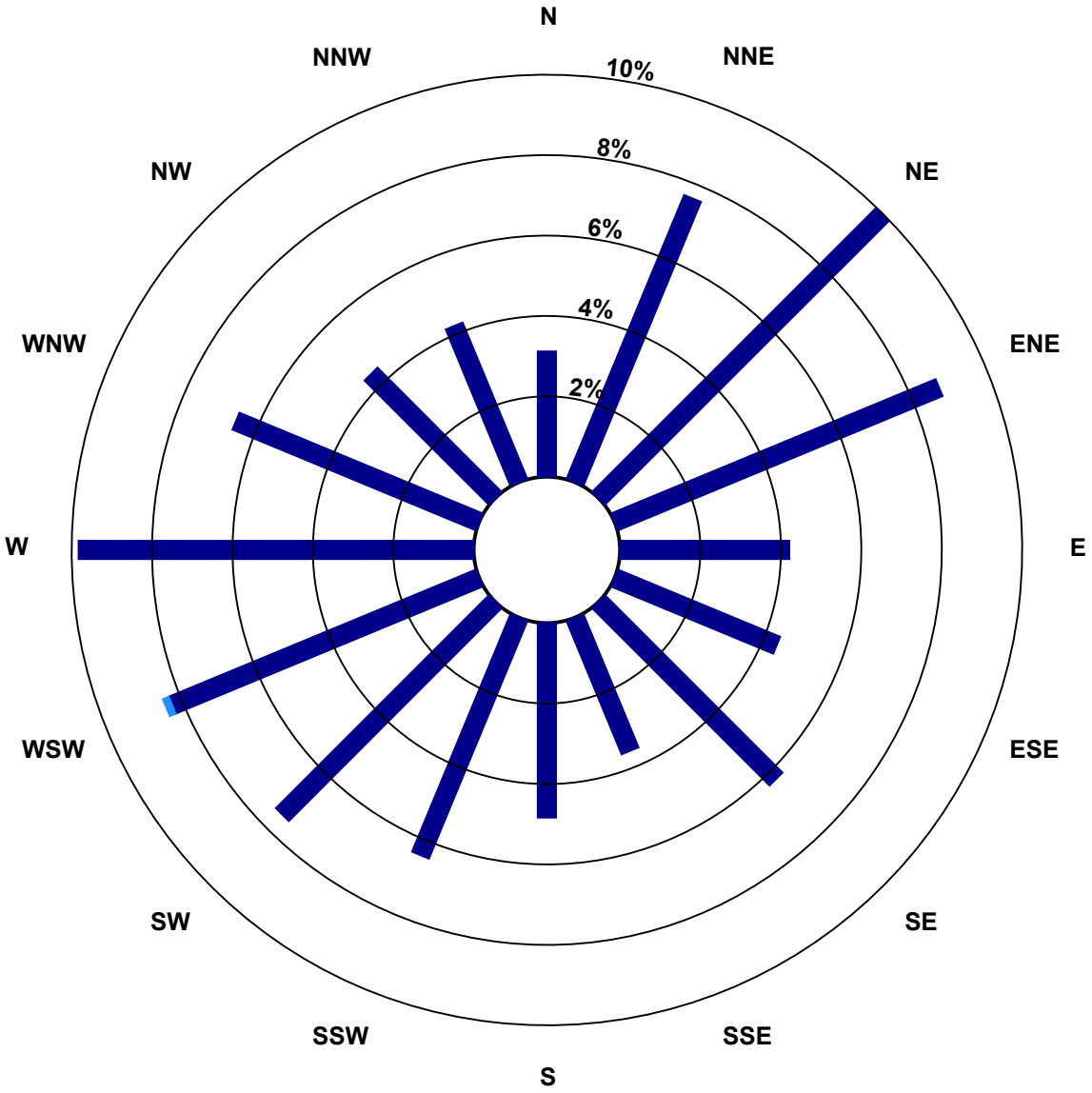
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Monday Creek



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

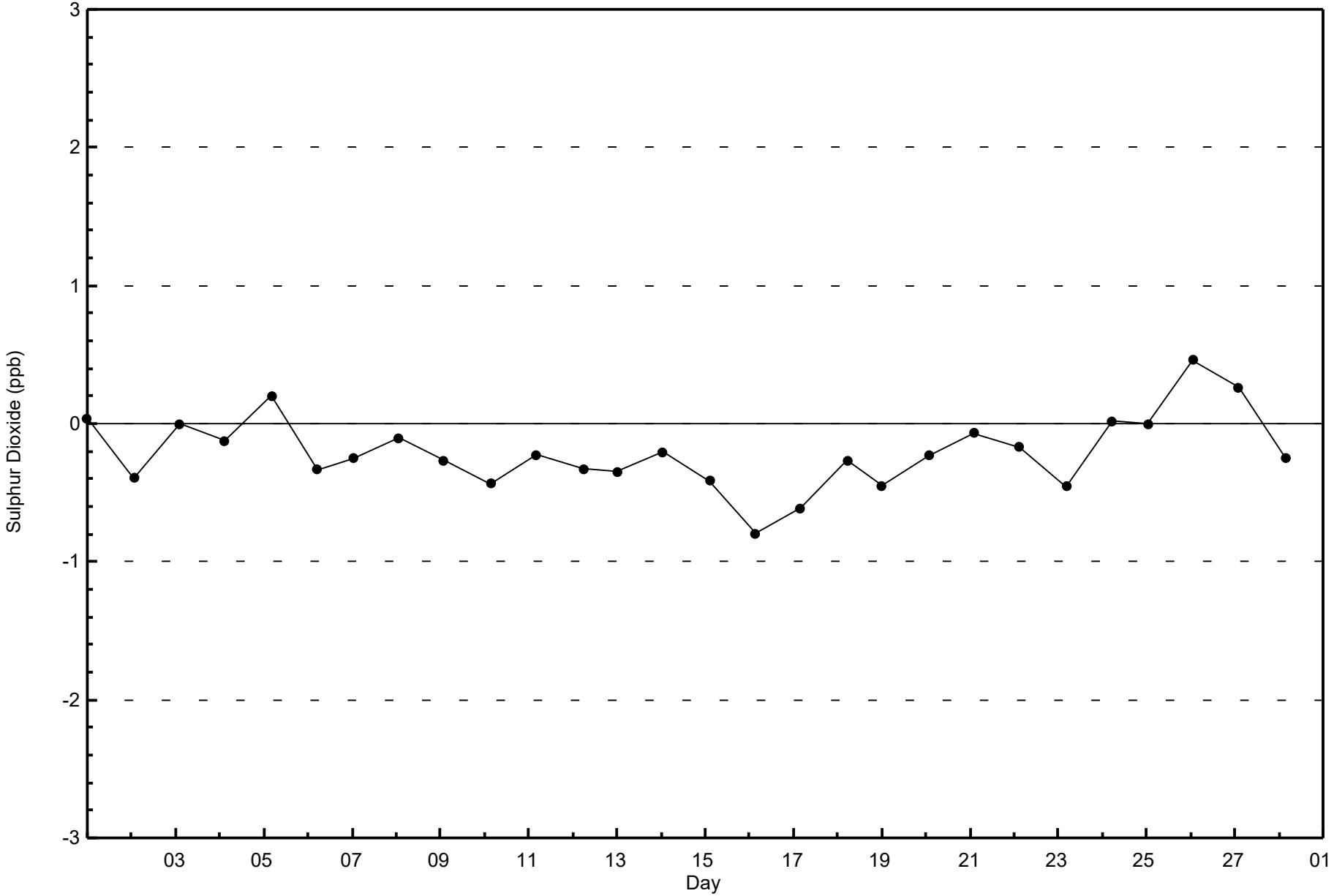
Total Number of Valid Hours: 641

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Monday Creek - February 2026

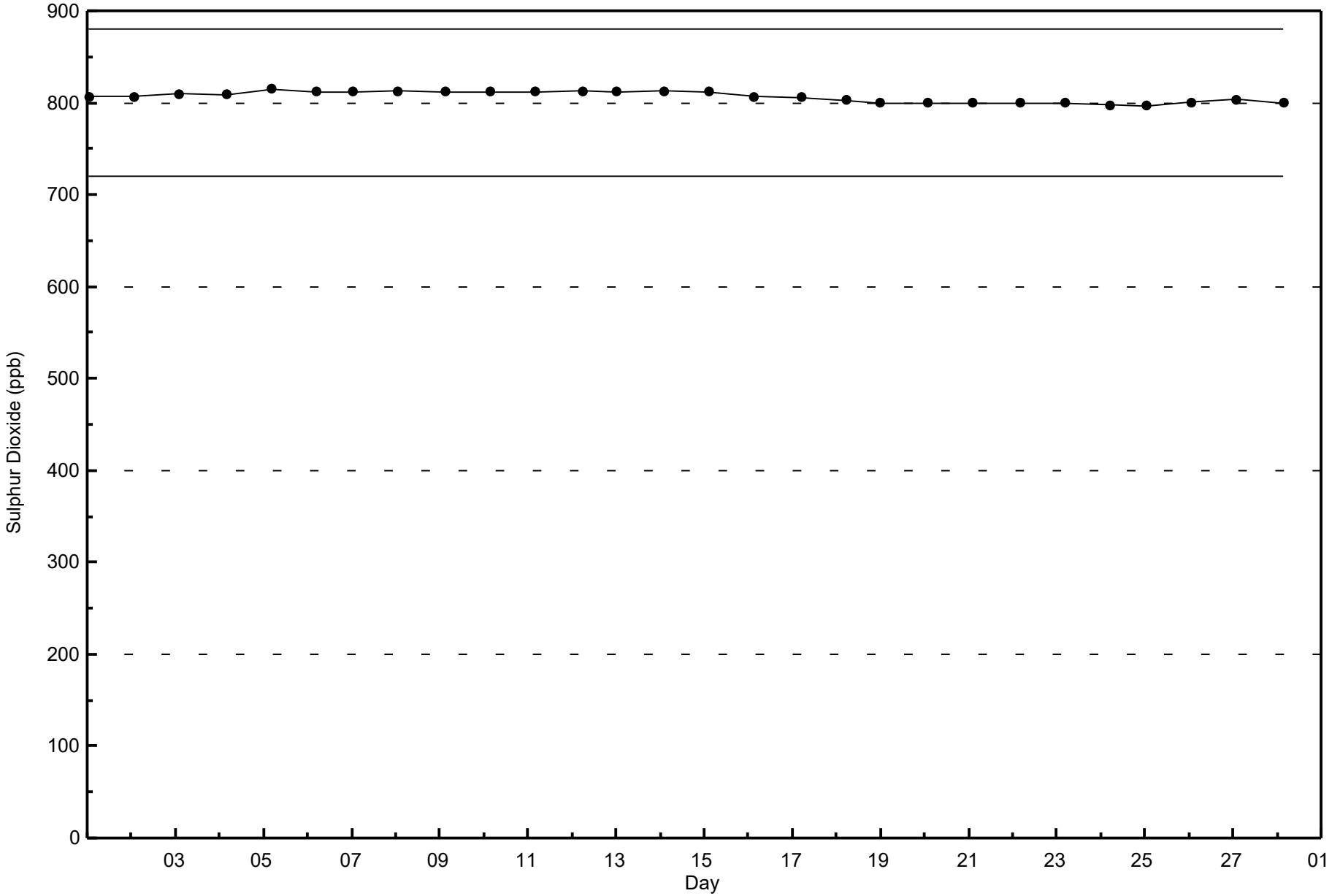


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Monday Creek - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Monday Creek - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 0.7 ppb on Feb 23 10:00 Maximum Daily Average: 0.3 ppb on Feb 23

Minimum Value: 0.0 ppb on Feb 18 12:00 Minimum Daily Average: 0.0 ppb on Feb 18
Maximum Diurnal Average: 0.2 ppb at hour 10 Minimum Diurnal Average: 0.1 ppb at hour 23
Monthly Average: 0.13 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.1 Q_3 = 0.2 P_{90} = 0.2 P_{99} = 0.5

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2
2-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
3-Feb	0.1	0.1	0.1	Z	0.2	0.3	0.3	0.3	0.3	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
4-Feb	0.0	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.3	0.1	0.3
5-Feb	0.2	0.1	0.1	0.2	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.2
6-Feb	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2
7-Feb	0.1	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.4	0.5	0.5	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5
8-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
9-Feb	0.1	0.2	0.2	Z	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.5
10-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2
11-Feb	0.2	0.2	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
12-Feb	Z	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2
13-Feb	0.1	Z	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3
14-Feb	0.3	0.2	Z	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.3	0.3	0.3	0.1	0.3	0.2	0.5
15-Feb	0.2	0.1	0.2	Z	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
16-Feb	0.2	0.2	0.2	0.2	Z	0.3	0.3	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.3
17-Feb	0.0	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-Feb	0.1	Z	0.3	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.4
20-Feb	0.0	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3
21-Feb	0.1	0.1	0.2	Z	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.2
22-Feb	0.1	0.0	0.0	0.1	Z	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
23-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.1	0.2	0.7	0.3	0.1	0.3	0.6	0.3	0.5	0.5	0.5	0.6	0.5	0.5	0.1	0.1	0.1	0.3	0.7
24-Feb	Z	0.1	0.0	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
25-Feb	0.0	Z	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2
26-Feb	0.2	0.4	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.4
27-Feb	0.0	0.0	0.0	Z	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	C	C	C	C	C	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
28-Feb	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Diurnal Average	
	0.3	0.4	0.3	0.5	0.4	0.3	0.3	0.5	0.3	0.7	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	Diurnal Maximum	

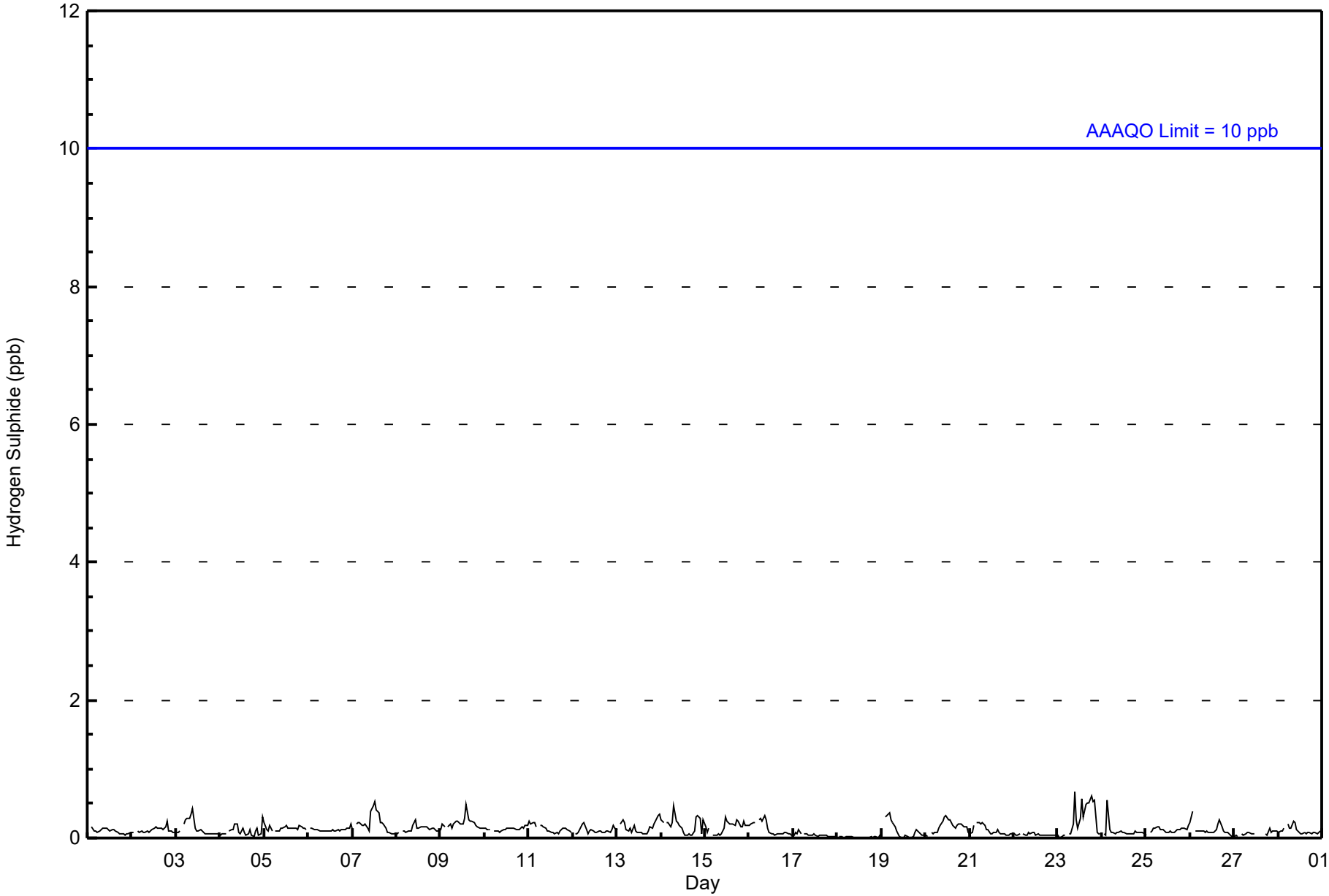
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Monday Creek - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	639	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Monday Creek - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	20	50	65	54	26	27	41	21	31	39	50	54	65	42	26	28	639
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	20	50	65	54	26	27	41	21	31	39	50	54	65	42	26	28	639

Total Number of Valid Hours: 639

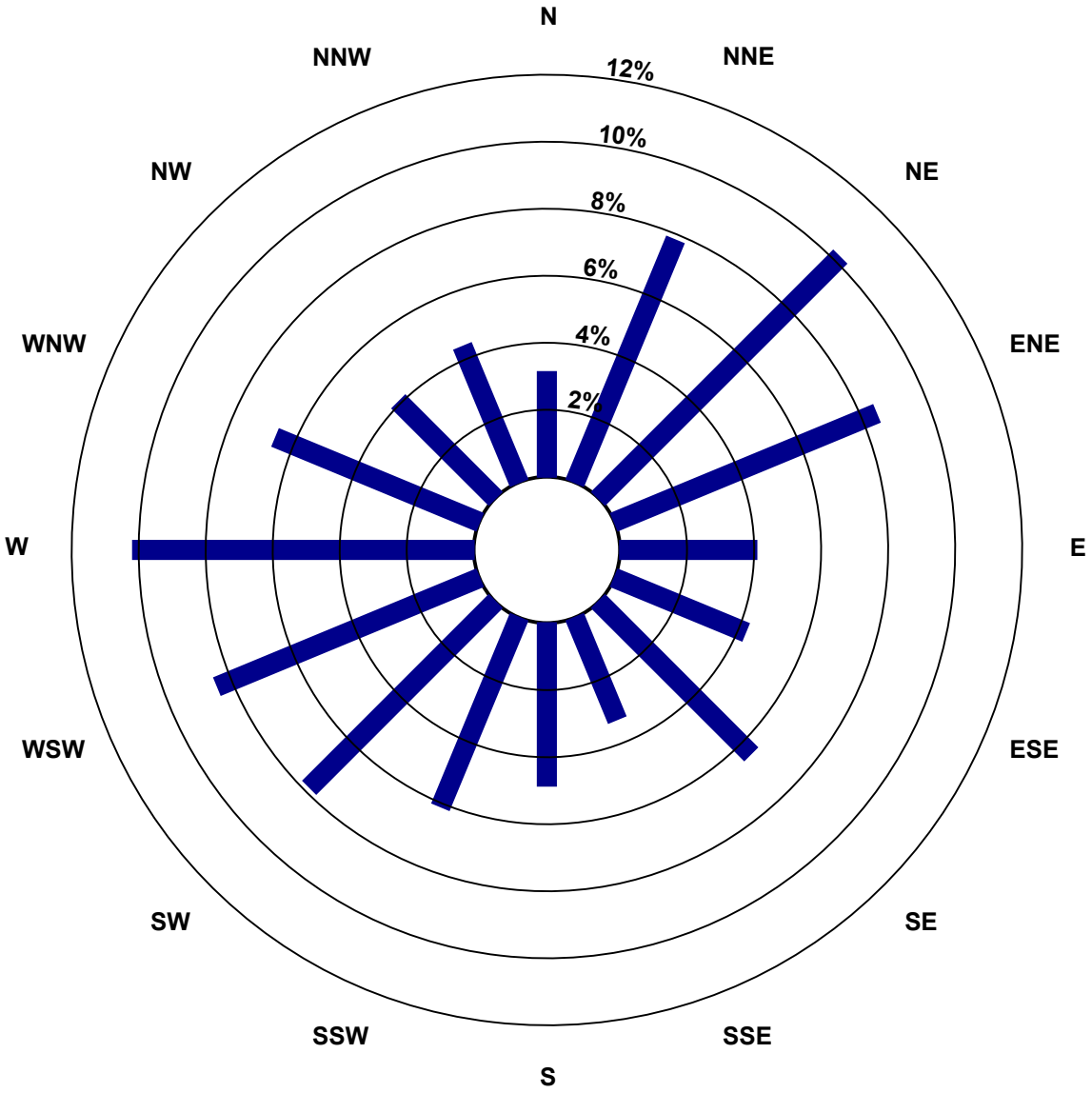
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Monday Creek



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

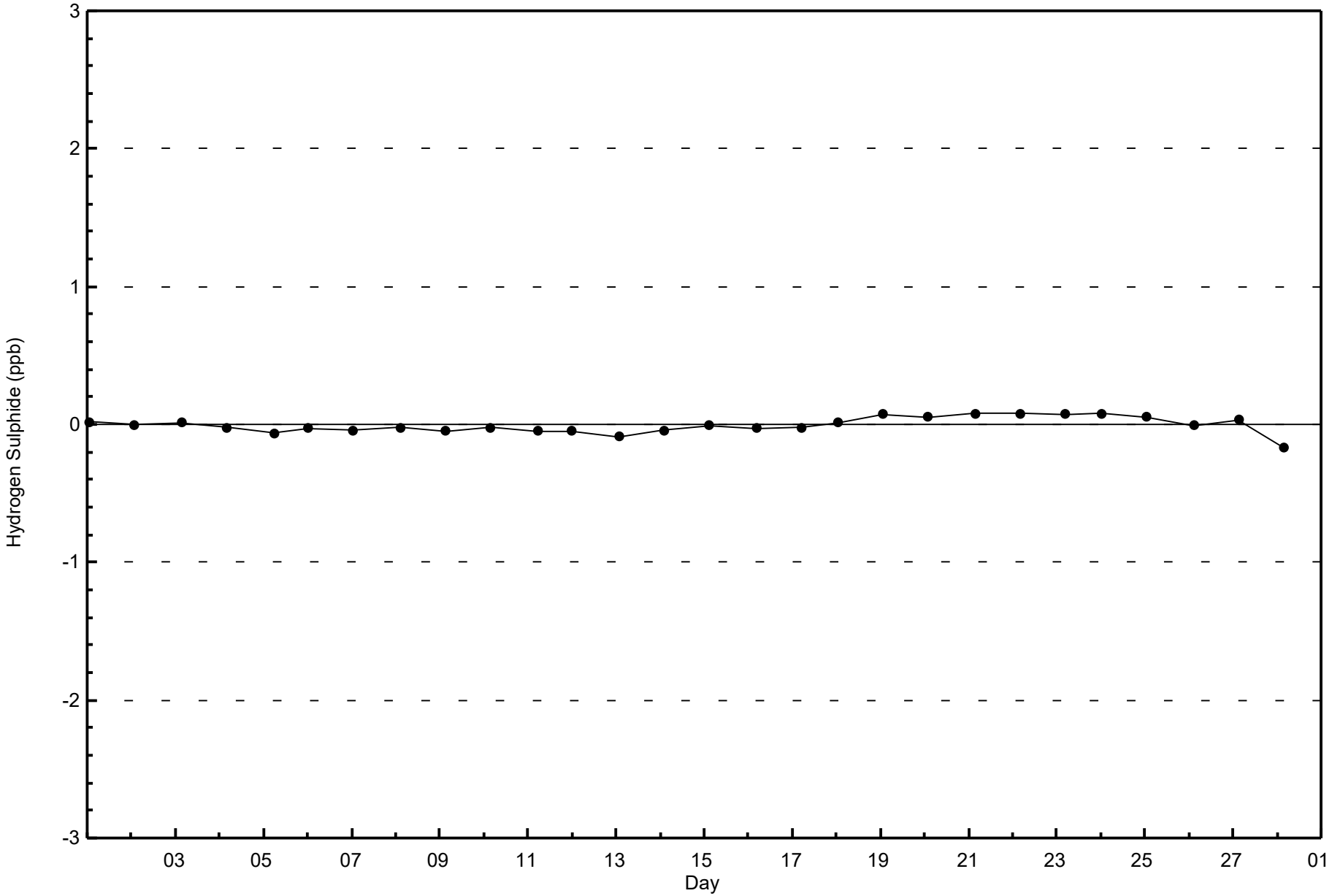
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Monday Creek - February 2026

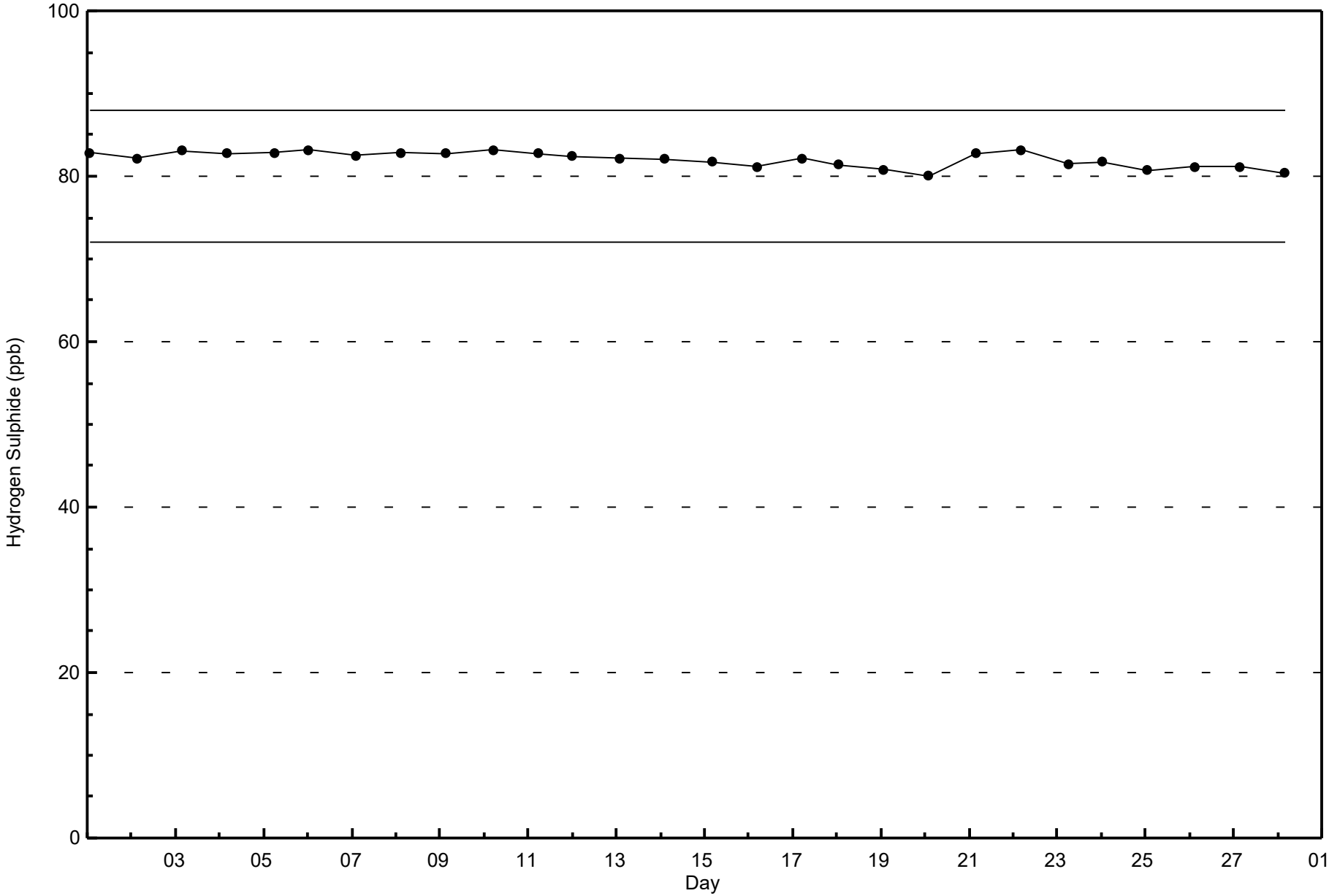


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Monday Creek - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Monday Creek - February 2026

Maximum Value: 67.3 ppb on Feb 23 10:00

Maximum Daily Average: 22.1 ppb on Feb 23

Minimum Value: 0.0 ppb on Feb 1 21:00

Minimum Daily Average: 0.2 ppb on Feb 5

Maximum Diurnal Average: 5.3 ppb at hour 10

Minimum Diurnal Average: 0.1 ppb at hour 2

Monthly Average: 1.67 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.2 Q_3 = 0.8 P_{90} = 2.7 P_{99} = 45.0

Hours in Service:	672
Hours of Data:	594
Hours of Missing Data:	78
Hours of Calibration:	33
Percent Operational Time:	93.3

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.3	0.3	0.4	0.7	0.7	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7
2-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.4	0.4	0.5	0.9	1.0	0.9	0.8	0.5	0.2	0.0	1.1	11.2	0.2	0.0	0.0	0.0	0.8	11.2
3-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	3.4	0.5	0.3	0.4	0.6	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.4
4-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.6	1.0	0.5	3.6	1.4	0.3	0.3	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.6	3.6
5-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.5	0.8	0.6	0.5	0.3	0.2	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.8
6-Feb	0.1	0.1	0.3	Z	0.0	0.3	0.1	0.1	0.1	0.1	0.2	0.4	0.7	0.6	0.6	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.7
7-Feb	0.1	0.0	0.0	0.0	Z	0.1	1.9	1.5	4.0	0.8	1.3	3.2	3.4	2.5	2.1	1.1	0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	1.0	4.0
8-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	2.9	4.3	1.3	0.8	1.1	0.8	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.3
9-Feb	Z	0.0	0.0	0.0	0.2	0.0	0.0	0.2	1.7	6.3	5.9	2.8	3.8	3.2	2.2	0.6	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	6.3
10-Feb	0.1	Z	0.0	0.0	0.0	0.0	0.2	0.2	0.3	2.5	3.3	2.7	2.5	1.6	0.9	1.2	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.3
11-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.3	0.6	1.7	1.8	1.7	1.3	0.6	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8
12-Feb	0.0	0.0	0.0	Z	0.2	0.7	0.2	0.0	0.1	1.0	0.7	1.3	0.3	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.3	1.3
13-Feb	0.0	0.0	0.5	0.5	Z	0.0	0.0	0.2	0.1	3.1	0.8	0.1	1.6	0.9	0.5	0.2	0.2	0.0	0.0	0.0	0.0	4.2	6.6	4.7	1.1	6.6
14-Feb	0.6	0.1	0.4	0.2	1.9	Z	2.6	26.2	8.3	2.5	1.3	0.9	0.2	0.1	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	26.2
15-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.8	5.1	4.6	2.0	1.4	0.8	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	5.1
16-Feb	0.0	Z	0.2	0.5	0.4	3.3	5.0	3.4	15.6	14.3	5.8	1.7	0.9	0.7	0.5	0.3	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.3	15.6
17-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C	C	C	M	M	M	M	M	M	M	M	M	M	--	0.1
18-Feb	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	--	--
19-Feb	M	M	M	M	M	M	M	M	M	M	M	C	C	C	C	0.8	0.5	0.2	0.4	1.2	0.7	0.4	0.1	0.0	--	1.2
20-Feb	0.0	0.5	2.4	0.5	0.0	Z	1.0	3.0	8.4	10.5	10.5	9.8	7.7	7.1	5.8	3.7	2.0	1.2	0.3	0.2	0.1	0.1	0.1	0.1	3.3	10.5
21-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.3	1.4	2.3	2.0	0.9	1.0	0.8	0.8	0.8	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.5	2.3
22-Feb	0.0	Z	0.0	0.1	0.7	0.2	0.1	0.3	3.5	3.5	3.2	3.0	0.3	0.3	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.7	3.5
23-Feb	0.1	0.1	Z	0.1	0.1	0.5	0.3	1.0	13.2	67.3	22.0	10.1	28.6	51.0	27.2	46.1	45.0	45.4	51.6	45.0	50.2	1.8	0.3	1.5	22.1	67.3
24-Feb	0.1	0.1	1.5	Z	6.8	0.4	0.0	0.1	0.7	1.5	1.7	1.7	1.0	0.8	1.1	0.7	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.8	6.8
25-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.2	0.7	1.0	0.9	0.9	0.9	1.0	0.6	0.5	0.5	0.3	0.7	1.1	0.4	0.3	0.3	0.2	0.5	1.1
26-Feb	0.2	0.2	0.2	0.2	0.1	Z	0.3	0.2	0.7	0.4	1.1	1.5	0.5	0.8	1.2	1.2	5.1	1.2	0.1	0.1	0.1	0.0	0.0	0.0	0.7	5.1
27-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	2.2	2.2	0.9	2.1	1.1	1.2	0.9	0.9	0.9	0.1	0.1	0.0	0.4	0.3	0.3	0.7	2.2
28-Feb	0.1	Z	0.0	0.4	0.1	0.1	0.0	1.6	12.6	8.3	1.7	1.0	0.9	0.9	1.1	0.7	0.3	0.5	0.5	0.3	0.1	0.0	0.0	0.0	1.4	12.6
	0.1	0.1	0.3	0.1	0.5	0.3	0.5	1.5	3.0	5.3	2.9	2.2	2.8	3.3	2.1	2.4	2.3	2.0	2.1	2.3	2.0	0.3	0.3	0.3	Diurnal Average	
	0.6	0.5	2.4	0.5	6.8	3.3	5.0	26.2	15.6	67.3	22.0	10.1	28.6	51.0	27.2	46.1	45.0	45.4	51.6	45.0	50.2	4.2	6.6	4.7	Diurnal Maximum	

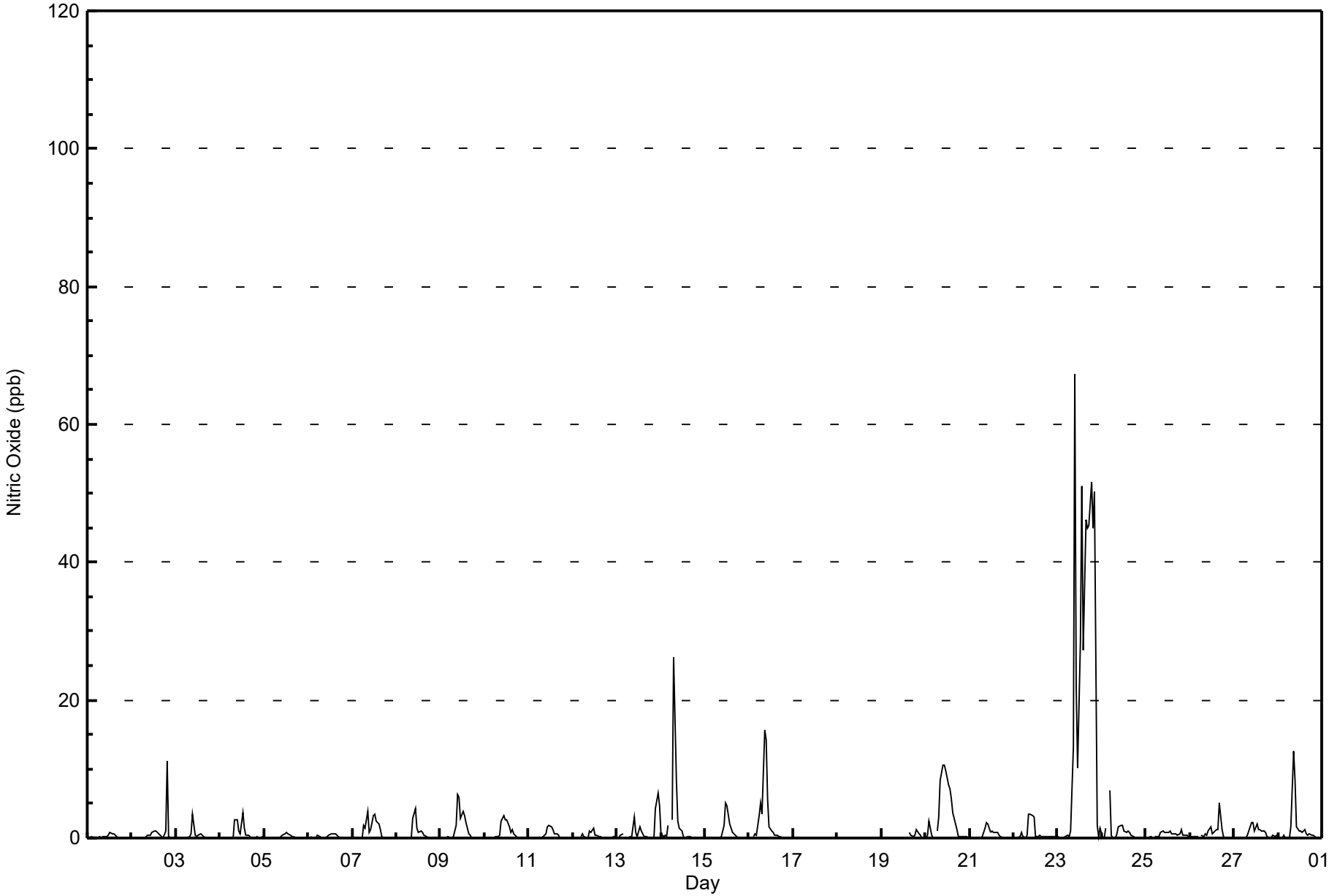
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Monday Creek - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	582	97.98	97.98
21 - 40	4	0.67	98.65
11 - 80	8	1.35	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 594

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Monday Creek - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	12	35	62	56	25	26	38	21	29	39	48	46	64	33	22	26	582
21 - 40	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0	4
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	8
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	12	35	62	56	25	27	38	21	29	39	48	46	64	41	25	26	594

Total Number of Valid Hours: 594

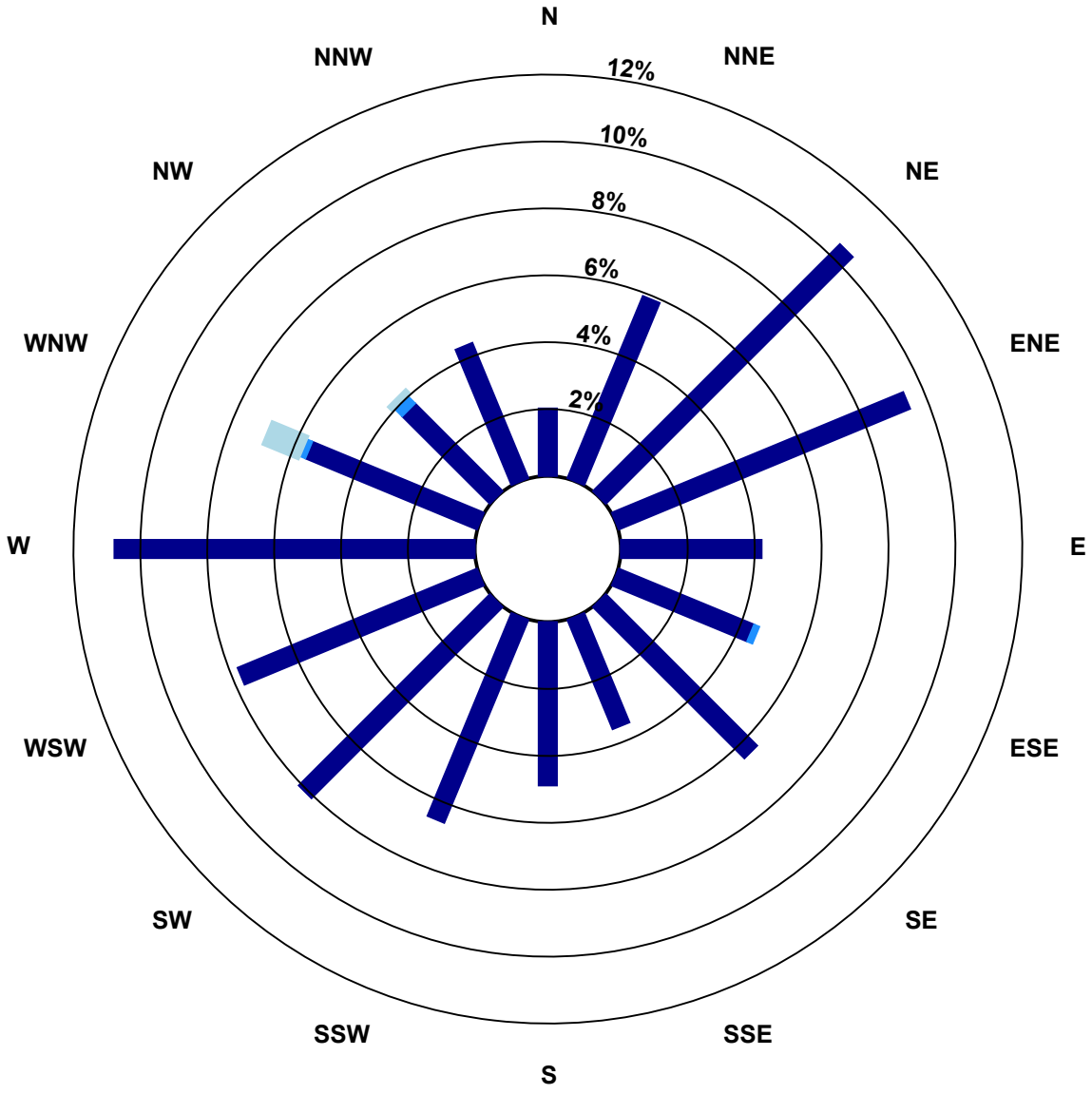
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Monday Creek



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

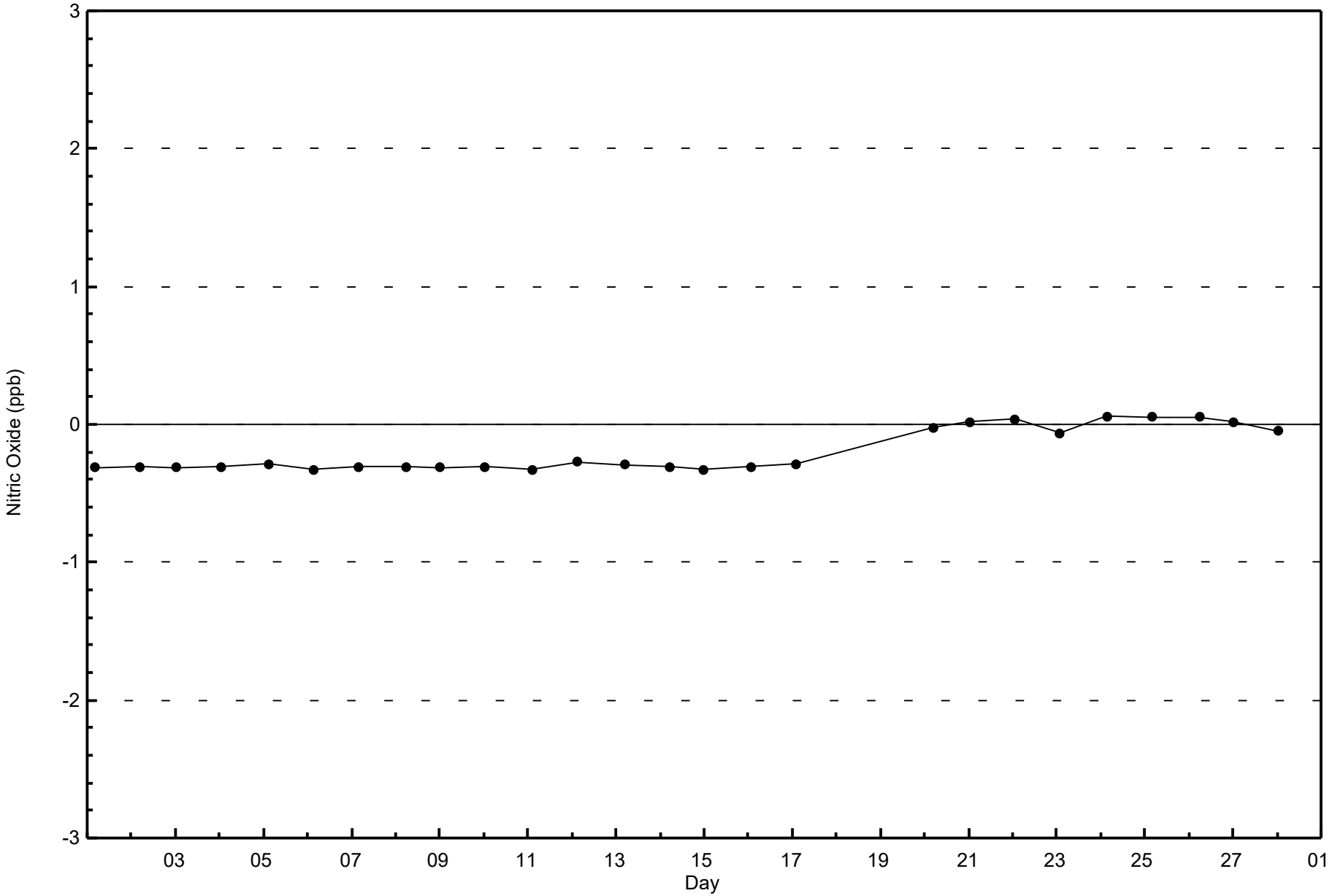
Total Number of Valid Hours: 594

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Monday Creek - February 2026

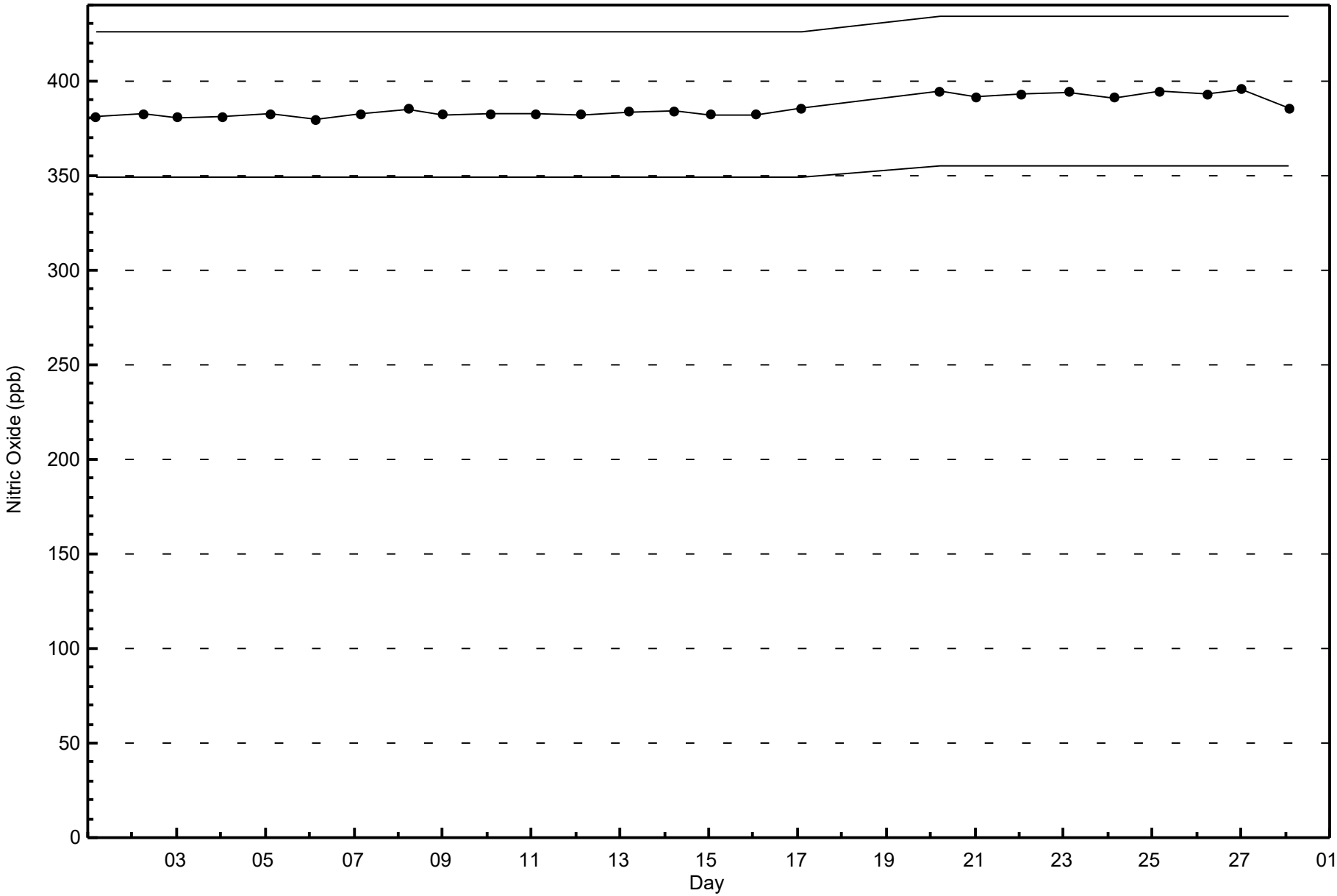


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Monday Creek - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Monday Creek - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 33.8 ppb on Feb 14 08:00 Maximum Daily Average: 10.8 ppb on Feb 20

Minimum Value: 0.1 ppb on Feb 17 11:00 Minimum Daily Average: 1.8 ppb on Feb 22
Maximum Diurnal Average: 5.6 ppb at hour 8 Minimum Diurnal Average: 3.0 ppb at hour 15
Monthly Average: 4.27 ppb Percentiles: P_1 = 0.3 P_{10} = 1.1 Q_1 = 1.8 Median = 2.8 Q_3 = 5.1 P_{90} = 9.1 P_{99} = 19.7

Hours in Service:	672
Hours of Data:	594
Hours of Missing Data:	78
Hours of Calibration:	33
Percent Operational Time:	93.3

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	4.5	3.9	3.3	2.9	Z	2.7	2.5	2.8	2.6	2.2	1.8	2.0	2.8	2.8	2.6	3.1	1.5	1.0	0.6	0.7	0.7	1.3	1.3	1.3	2.2	4.5
2-Feb	1.7	1.8	1.8	2.1	2.2	Z	2.2	2.3	2.3	2.3	2.5	3.4	3.1	3.1	3.4	3.3	3.6	4.5	8.0	17.3	5.4	2.9	2.5	2.7	3.7	17.3
3-Feb	Z	3.0	2.1	2.2	2.9	4.2	5.1	5.9	5.8	8.7	2.3	1.6	1.9	2.6	2.2	2.2	1.9	0.9	1.0	0.6	1.4	1.9	2.6	2.5	2.8	8.7
4-Feb	2.1	Z	2.4	2.7	5.1	5.4	4.2	4.3	14.9	8.9	3.0	1.8	6.3	3.2	1.5	1.9	3.1	1.5	1.2	2.9	7.1	1.5	2.1	6.2	4.1	14.9
5-Feb	2.5	2.0	Z	4.2	3.1	1.1	1.6	1.0	1.8	2.0	2.5	2.3	2.1	1.9	1.9	1.8	2.2	2.9	2.3	2.5	3.7	3.8	4.2	4.2	2.5	4.2
6-Feb	4.1	3.6	4.1	Z	3.2	4.3	2.0	1.5	1.6	0.9	1.1	1.1	1.3	1.8	2.0	2.6	3.3	4.3	4.4	4.1	3.8	3.7	6.2	6.1	3.1	6.2
7-Feb	5.9	5.0	5.1	5.4	Z	5.0	6.8	8.3	7.2	3.2	3.3	5.0	6.3	4.8	5.9	5.3	3.3	2.5	2.3	1.6	1.6	1.6	2.3	1.9	4.3	8.3
8-Feb	1.9	1.3	1.9	3.1	2.4	Z	2.7	3.0	2.1	6.7	6.0	2.7	2.4	2.4	2.4	2.2	2.1	2.6	2.4	1.9	2.1	1.6	1.2	0.8	2.5	6.7
9-Feb	Z	3.6	2.0	1.1	3.8	5.2	3.1	5.4	7.5	8.3	5.5	2.7	3.3	3.1	3.6	2.6	3.2	3.4	3.3	2.8	2.2	2.4	2.1	2.3	3.6	8.3
10-Feb	2.5	Z	1.3	1.9	1.5	1.3	2.1	2.6	2.7	4.2	3.4	2.8	4.0	4.1	4.3	5.8	4.9	4.8	4.8	5.7	7.6	9.1	8.2	6.3	4.2	9.1
11-Feb	7.0	5.9	Z	4.6	4.0	3.6	4.6	4.8	4.2	3.2	5.4	4.6	3.5	2.8	2.2	2.4	2.9	4.9	4.4	3.1	2.5	2.1	2.3	2.1	3.8	7.0
12-Feb	2.7	3.4	3.8	Z	8.6	13.8	8.6	2.1	1.9	3.3	2.3	3.3	1.2	1.4	1.5	1.7	1.8	1.8	2.0	1.8	2.8	3.0	10.0	6.8	3.9	13.8
13-Feb	4.8	3.2	14.2	18.2	Z	2.2	2.2	2.2	1.3	10.5	2.6	0.6	1.9	1.0	0.9	0.7	1.0	4.0	3.4	2.9	2.2	8.6	19.2	17.0	5.4	19.2
14-Feb	10.7	7.9	7.8	7.1	11.6	Z	19.6	33.8	18.8	7.1	3.8	3.1	0.9	0.5	0.8	1.0	0.7	0.8	1.0	2.6	7.7	4.3	2.4	2.6	6.8	33.8
15-Feb	Z	5.5	4.9	2.0	1.3	0.9	1.0	1.3	1.2	1.6	4.1	8.3	6.5	4.6	4.4	4.0	3.4	5.2	5.8	4.4	3.9	6.1	6.2	6.2	4.0	8.3
16-Feb	7.1	Z	12.6	13.3	14.5	16.5	16.6	15.2	14.8	10.9	5.2	1.5	1.0	0.8	0.6	0.7	0.5	1.6	2.0	4.2	2.0	1.2	1.2	0.3	6.3	16.6
17-Feb	0.5	1.6	Z	2.1	0.7	0.3	0.2	0.4	0.3	0.2	0.1	C	C	C	M	M	M	M	M	M	M	M	M	M	--	2.1
18-Feb	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	--	--
19-Feb	M	M	M	M	M	M	M	M	M	M	M	C	C	C	C	1.5	1.7	3.4	3.0	6.0	7.6	4.6	7.7	4.5	--	7.7
20-Feb	5.8	6.0	12.3	9.5	10.4	Z	11.9	15.9	13.3	10.6	9.2	8.5	7.9	9.1	10.1	10.7	9.7	14.6	18.7	18.0	13.8	8.9	9.3	4.1	10.8	18.7
21-Feb	Z	4.6	8.2	9.6	10.2	9.5	6.2	6.7	5.2	3.6	2.8	1.2	1.6	1.6	1.5	2.7	2.0	1.7	1.6	1.0	1.3	1.8	2.2	1.5	3.8	10.2
22-Feb	2.6	Z	4.2	3.5	4.8	2.0	1.3	2.3	4.2	2.8	1.9	2.5	0.6	0.7	1.0	0.9	1.1	1.1	0.7	0.6	0.6	0.5	0.6	0.7	1.8	4.8
23-Feb	0.8	0.3	Z	0.8	1.3	1.7	2.9	3.2	7.5	15.9	5.8	8.0	11.1	21.5	13.4	18.1	20.6	18.4	21.1	24.4	20.8	3.7	1.5	1.5	9.8	24.4
24-Feb	1.4	1.8	1.9	Z	5.0	2.0	2.0	1.6	2.5	2.2	2.0	2.0	1.5	1.3	1.6	2.3	2.1	3.8	2.8	2.7	3.4	3.6	2.5	1.2	2.3	5.0
25-Feb	1.3	2.2	3.6	4.7	Z	6.2	6.5	5.1	3.7	2.4	1.8	1.9	1.9	1.9	1.5	1.7	2.8	3.8	12.6	17.4	12.7	9.4	7.2	5.1	5.1	17.4
26-Feb	3.0	3.0	2.4	2.5	2.1	Z	3.6	2.8	3.4	1.5	1.8	2.7	1.7	1.5	2.7	4.7	7.5	7.2	5.4	4.4	2.4	1.9	3.3	1.9	3.2	7.5
27-Feb	Z	1.6	1.7	1.6	1.9	2.4	3.4	3.6	2.5	3.1	1.7	1.1	1.3	1.3	1.5	1.5	2.7	5.5	4.4	5.9	4.0	9.4	8.1	8.4	3.4	9.4
28-Feb	7.5	Z	8.0	9.6	8.7	10.2	7.9	8.0	10.8	6.7	2.0	1.3	1.3	1.1	0.7	0.9	1.6	4.1	2.5	3.7	2.4	2.7	3.5	5.1	4.8	10.8
	3.8	3.4	5.0	5.0	5.0	4.8	5.0	5.6	5.5	5.1	3.2	3.0	3.1	3.2	3.0	3.3	3.5	4.2	4.7	5.5	4.8	3.9	4.6	4.0	Diurnal Average	
	10.7	7.9	14.2	18.2	14.5	16.5	19.6	33.8	18.8	15.9	9.2	8.5	11.1	21.5	13.4	18.1	20.6	18.4	21.1	24.4	20.8	9.4	19.2	17.0	Diurnal Maximum	

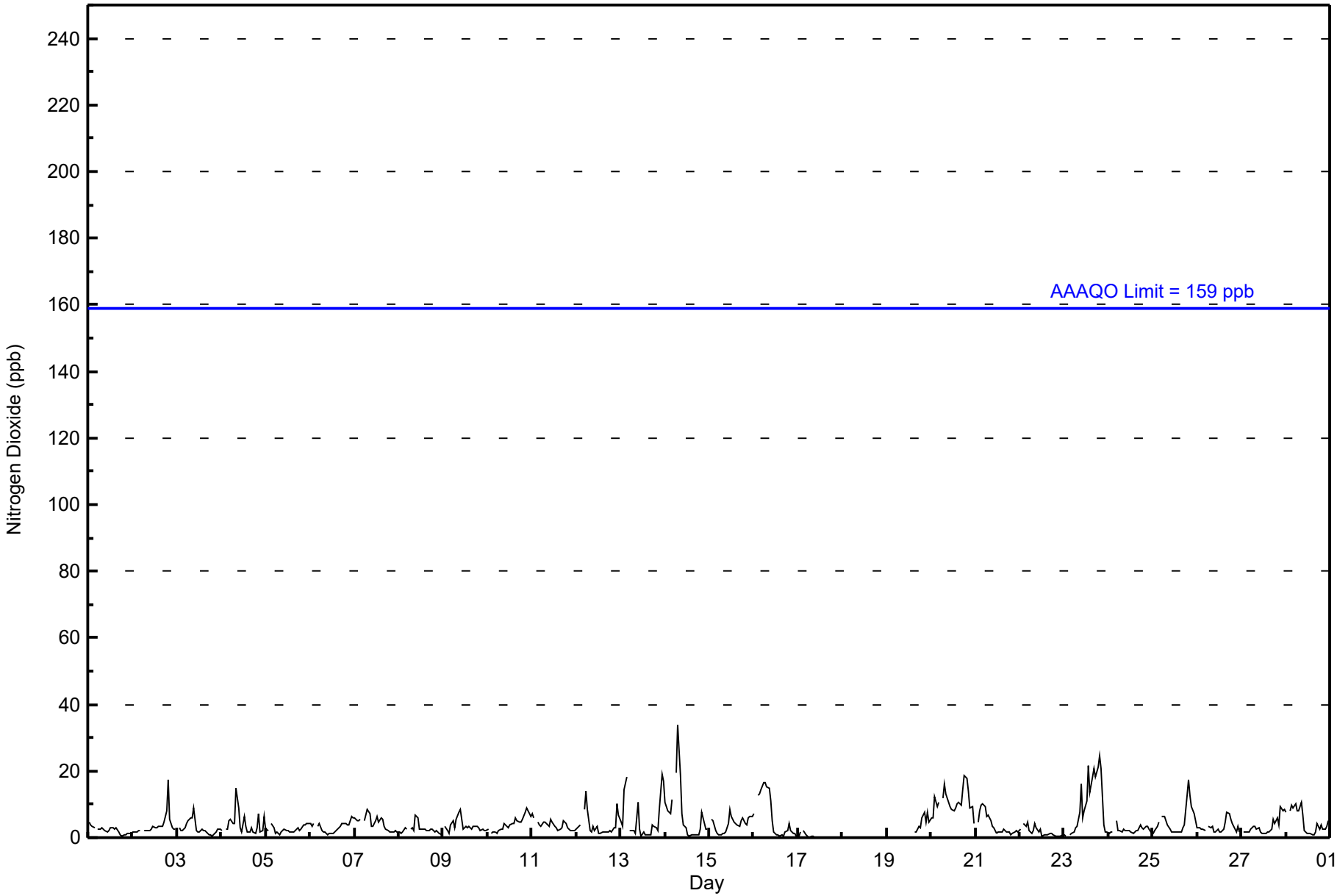
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Monday Creek - February 2026



Nitrogen Dioxide (NO_2) - ppb
Monday Creek - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	588	98.99	98.99
21 - 40	6	1.01	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 594

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Monday Creek - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	12	35	62	56	25	26	38	21	29	39	48	46	64	37	24	26	588
21 - 40	0	0	0	0	0	1	0	0	0	0	0	0	0	4	1	0	6
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	12	35	62	56	25	27	38	21	29	39	48	46	64	41	25	26	594

Total Number of Valid Hours: 594

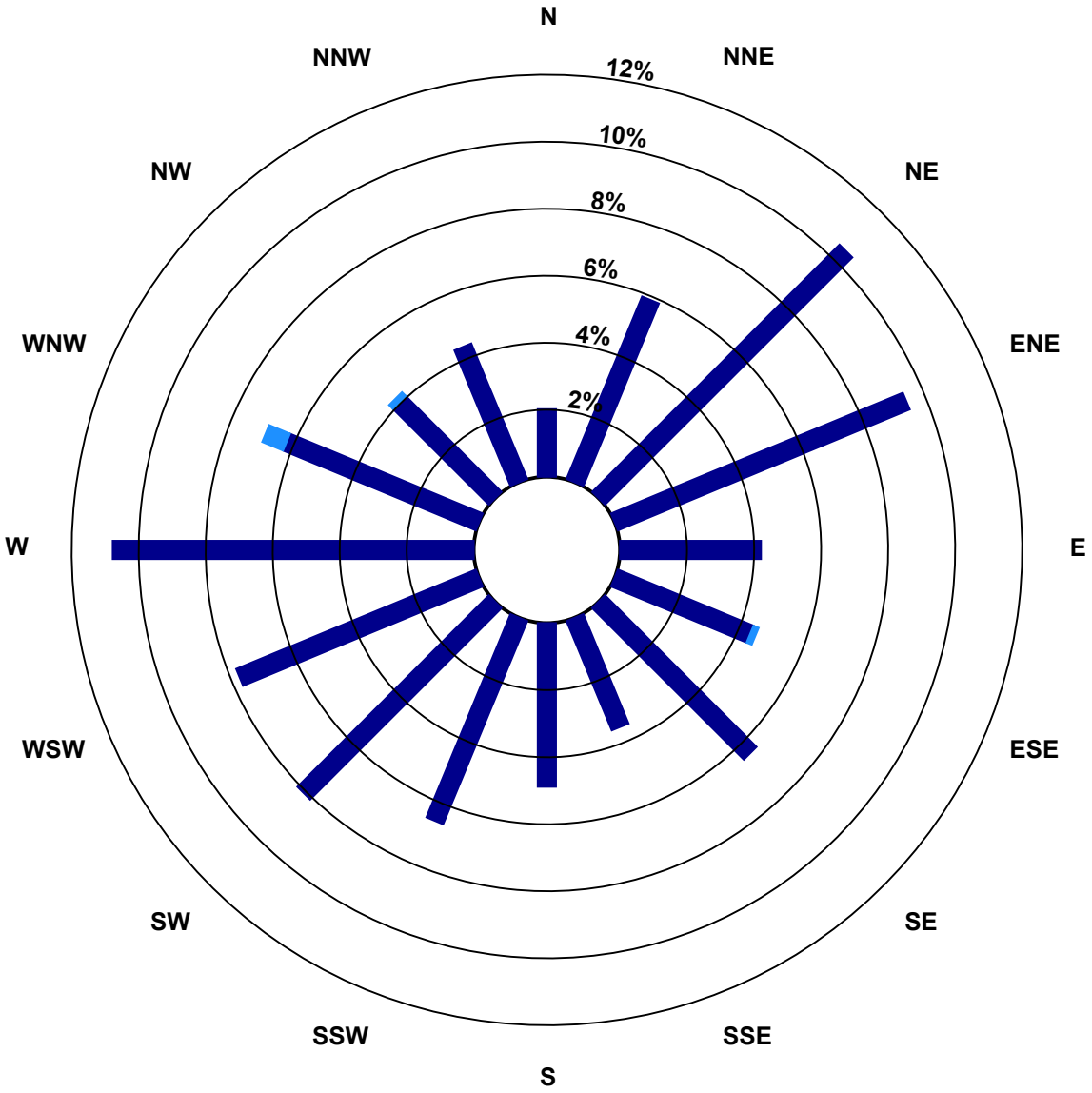
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Monday Creek



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

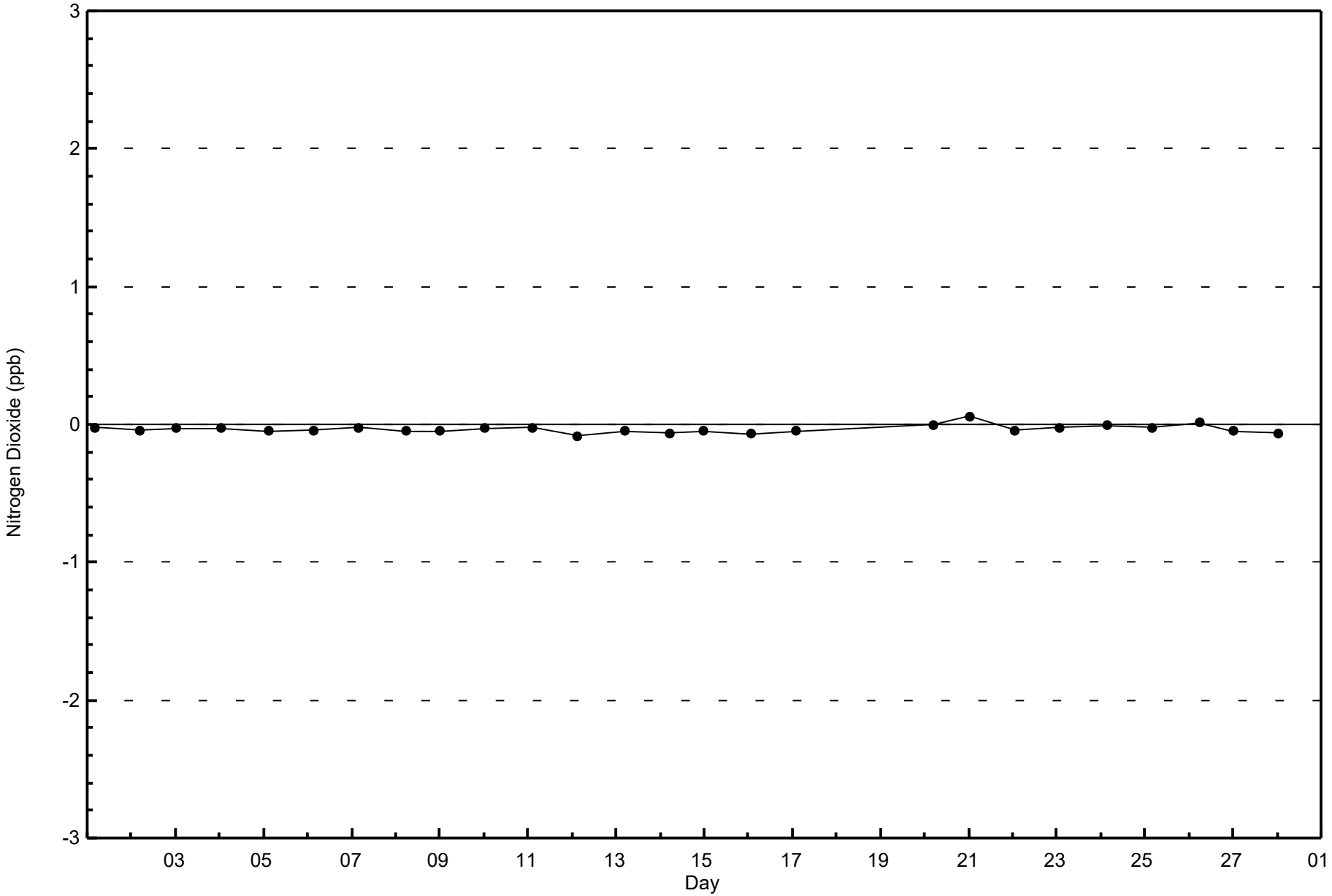
Total Number of Valid Hours: 594

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Monday Creek - February 2026

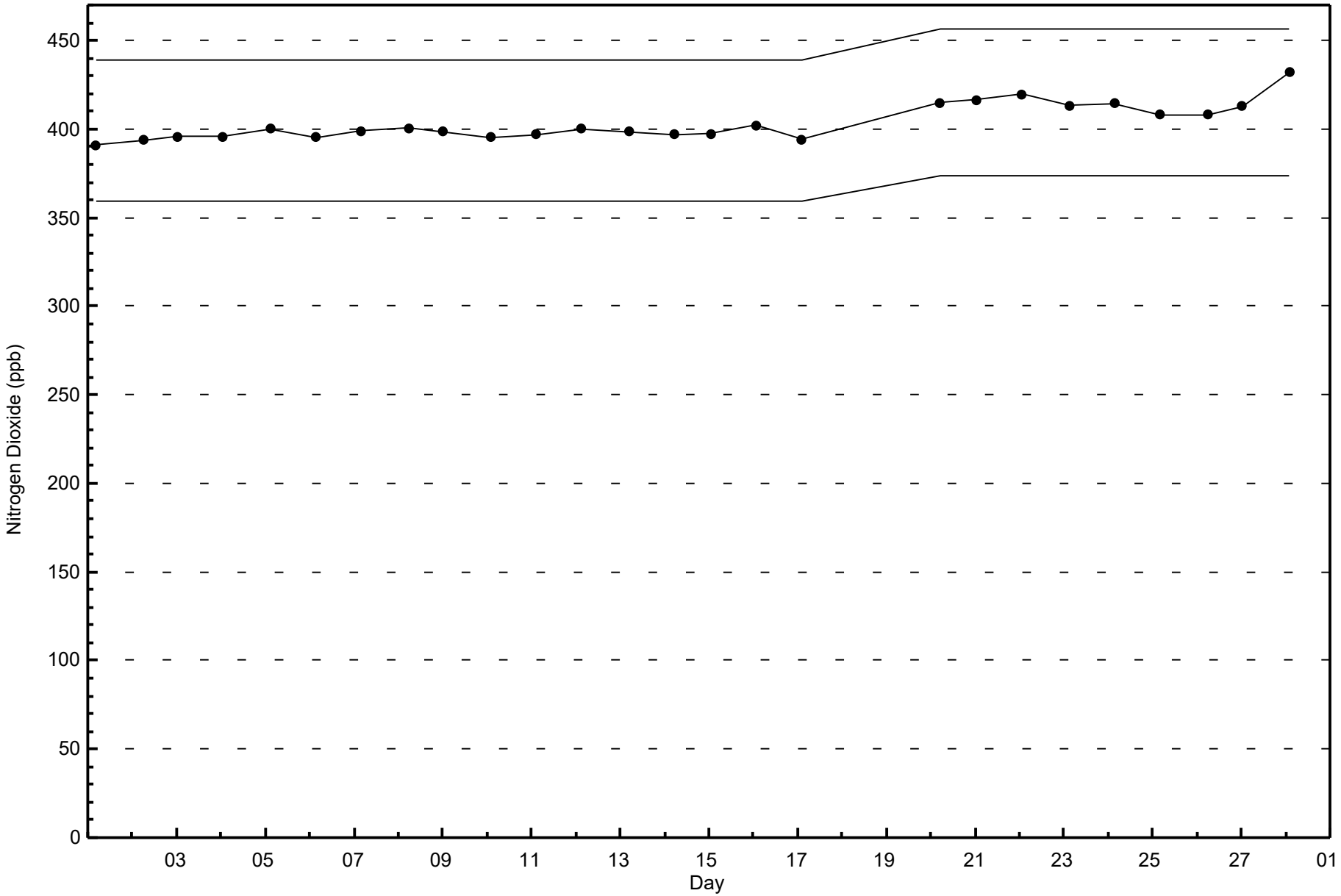


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Monday Creek - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Monday Creek - February 2026

Maximum Value: 83.2 ppb on Feb 23 10:00

Maximum Daily Average: 31.9 ppb on Feb 23

Minimum Value: 0.2 ppb on Feb 17 07:00

Minimum Daily Average: 2.4 ppb on Feb 1

Maximum Diurnal Average: 10.4 ppb at hour 10

Minimum Diurnal Average: 3.5 ppb at hour 2

Monthly Average: 5.94 ppb

Percentiles: P_1 = 0.4 P_{10} = 1.3 Q_1 = 2.1 Median = 3.3 Q_3 = 5.9 P_{90} = 11.6 P_{99} = 64.3

Hours in Service:	672
Hours of Data:	594
Hours of Missing Data:	78
Hours of Calibration:	33
Percent Operational Time:	93.3

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	4.5	3.9	3.4	3.0	Z	2.8	2.6	2.9	2.7	2.5	2.1	2.4	3.5	3.5	3.2	3.4	1.6	1.0	0.6	0.7	0.7	1.3	1.3	1.3	2.4	4.5
2-Feb	1.7	1.8	1.8	2.1	2.2	Z	2.2	2.3	2.7	2.7	3.0	4.3	4.1	4.0	4.2	3.8	3.8	4.5	9.1	28.5	5.6	2.9	2.5	2.7	4.5	28.5
3-Feb	Z	3.0	2.1	2.2	2.9	4.2	5.2	6.2	6.4	12.1	2.8	1.9	2.3	3.2	2.5	2.4	2.0	0.9	1.0	0.6	1.4	1.9	2.6	2.5	3.1	12.1
4-Feb	2.1	Z	2.4	2.7	5.1	5.4	4.2	4.3	17.6	11.5	4.0	2.3	9.9	4.6	1.8	2.2	3.4	1.5	1.2	2.9	7.3	1.5	2.1	6.4	4.6	17.6
5-Feb	2.5	2.0	Z	4.2	3.1	1.1	1.6	1.0	1.9	2.1	2.8	2.8	2.9	2.5	2.4	2.1	2.4	2.9	2.3	2.5	3.8	3.9	4.3	4.3	2.7	4.3
6-Feb	4.2	3.7	4.4	Z	3.2	4.6	2.1	1.6	1.7	1.0	1.3	1.5	2.0	2.4	2.6	3.1	3.6	4.3	4.4	4.1	3.8	3.7	6.2	6.2	3.3	6.2
7-Feb	6.0	5.0	5.1	5.4	Z	5.1	8.7	9.8	11.2	4.0	4.6	8.2	9.7	7.3	8.0	6.4	3.6	2.5	2.4	1.6	1.7	1.6	2.3	1.9	5.3	11.2
8-Feb	1.9	1.3	1.9	3.1	2.4	Z	2.7	3.0	2.2	9.6	10.3	4.0	3.2	3.5	3.2	2.5	2.3	2.6	2.4	1.9	2.1	1.6	1.2	0.8	3.0	10.3
9-Feb	Z	3.6	2.0	1.1	4.0	5.2	3.1	5.6	9.2	14.6	11.4	5.5	7.1	6.3	5.8	3.2	3.6	3.5	3.3	2.8	2.2	2.4	2.1	2.3	4.8	14.6
10-Feb	2.6	Z	1.3	1.9	1.5	1.3	2.3	2.8	3.0	6.7	6.7	5.5	6.5	5.7	5.2	7.0	5.5	4.9	4.8	5.7	7.6	9.1	8.2	6.3	4.9	9.1
11-Feb	7.0	5.9	Z	4.6	4.0	3.6	4.6	4.9	4.5	3.8	7.1	6.4	5.2	4.1	2.8	2.9	3.2	4.9	4.4	3.1	2.5	2.1	2.3	2.1	4.2	7.1
12-Feb	2.7	3.4	3.8	Z	8.8	14.5	8.8	2.1	2.0	4.3	3.0	4.6	1.5	1.8	1.8	1.9	1.9	1.8	2.0	1.8	2.8	3.0	10.3	6.9	4.1	14.5
13-Feb	4.8	3.2	14.7	18.7	Z	2.2	2.2	2.4	1.4	13.6	3.4	0.7	3.5	1.9	1.4	0.9	1.2	4.0	3.4	2.9	2.2	12.8	25.8	21.7	6.5	25.8
14-Feb	11.3	8.0	8.2	7.3	13.5	Z	22.2	60.0	27.1	9.6	5.1	4.0	1.1	0.6	1.0	1.2	0.9	0.8	1.0	2.6	7.7	4.3	2.4	2.6	8.8	60.0
15-Feb	Z	5.5	4.9	2.0	1.3	0.9	1.0	1.3	1.3	1.8	5.9	13.4	11.1	6.6	5.8	4.8	3.9	5.3	5.8	4.4	3.9	6.1	6.2	6.2	4.8	13.4
16-Feb	7.1	Z	12.8	13.8	14.9	19.8	21.6	18.6	30.4	25.2	11.0	3.2	1.9	1.5	1.1	1.0	0.6	1.8	2.0	4.2	2.0	1.2	1.2	0.3	8.6	30.4
17-Feb	0.5	1.6	Z	2.1	0.7	0.3	0.2	0.4	0.3	0.3	0.2	C	C	C	M	M	M	M	M	M	M	M	M	M	--	2.1
18-Feb	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	--	--
19-Feb	M	M	M	M	M	M	M	M	M	M	M	C	C	C	C	2.3	2.2	3.6	3.4	7.2	8.3	5.0	7.8	4.5	--	8.3
20-Feb	5.8	6.5	14.7	10.0	10.4	Z	12.9	18.9	21.7	21.1	19.7	18.3	15.6	16.2	15.9	14.4	11.7	15.8	19.0	18.2	13.9	9.0	9.4	4.2	14.1	21.7
21-Feb	Z	4.7	8.3	9.7	10.3	9.6	6.3	7.0	6.6	5.9	4.8	2.1	2.6	2.4	2.3	3.5	2.3	1.8	1.7	1.1	1.3	1.8	2.2	1.5	4.3	10.3
22-Feb	2.6	Z	4.2	3.6	5.5	2.2	1.4	2.6	7.7	6.3	5.1	5.5	0.9	1.0	1.4	1.2	1.4	1.3	0.8	0.7	0.7	0.6	0.7	0.9	2.5	7.7
23-Feb	0.9	0.4	Z	0.9	1.4	2.2	3.2	4.2	20.7	83.2	27.8	18.1	39.7	72.5	40.6	64.2	65.6	63.8	72.7	69.4	71.0	5.5	1.8	3.0	31.9	83.2
24-Feb	1.5	1.9	3.4	Z	11.8	2.4	2.0	1.7	3.2	3.7	3.7	3.7	2.5	2.1	2.7	3.0	2.6	4.0	2.9	2.8	3.5	3.7	2.6	1.3	3.2	11.8
25-Feb	1.4	2.3	3.7	4.8	Z	6.3	6.6	5.3	4.4	3.4	2.7	2.8	2.8	2.9	2.1	2.2	3.3	4.1	13.3	18.5	13.1	9.7	7.5	5.3	5.6	18.5
26-Feb	3.2	3.2	2.6	2.7	2.2	Z	3.9	3.0	4.1	1.9	2.9	4.2	2.2	2.3	3.9	5.9	12.6	8.4	5.5	4.5	2.5	1.9	3.3	1.9	3.9	12.6
27-Feb	Z	1.6	1.7	1.6	1.9	2.4	3.4	4.0	3.5	5.3	3.9	2.0	3.4	2.4	2.7	2.4	3.6	6.4	4.5	6.0	4.0	9.8	8.4	8.7	4.1	9.8
28-Feb	7.6	Z	8.0	10.0	8.8	10.3	7.9	9.6	23.4	15.0	3.7	2.3	2.2	2.0	1.8	1.6	1.9	4.6	3.0	4.0	2.5	2.7	3.5	5.1	6.1	23.4
	3.9	3.5	5.2	5.1	5.5	5.1	5.5	7.1	8.5	10.4	6.1	5.2	5.9	6.5	5.0	5.8	5.8	6.2	6.8	7.8	6.9	4.2	4.9	4.3	Diurnal Average	
	11.3	8.0	14.7	18.7	14.9	19.8	22.2	60.0	30.4	83.2	27.8	18.3	39.7	72.5	40.6	64.2	65.6	63.8	72.7	69.4	71.0	12.8	25.8	21.7	Diurnal Maximum	

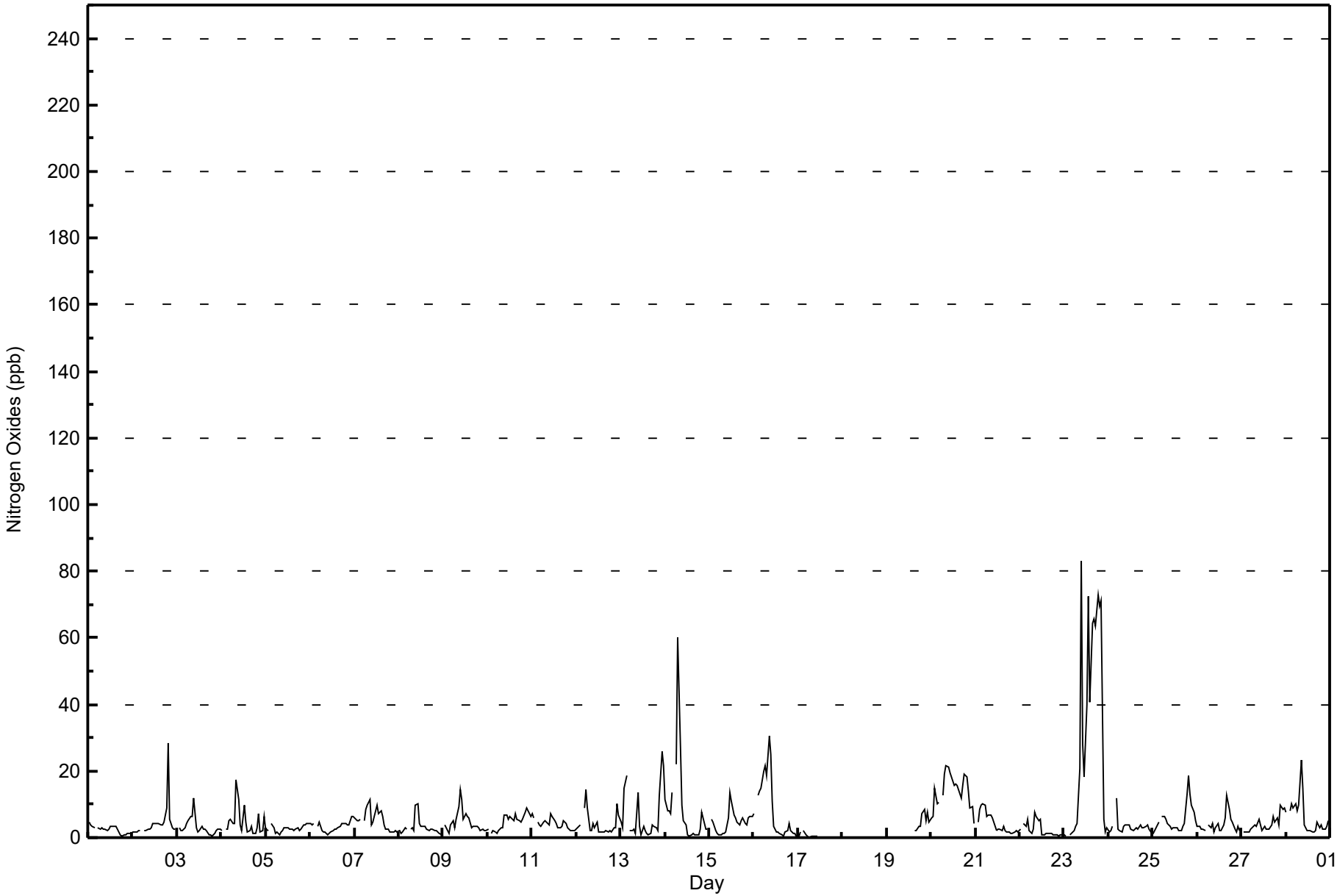
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Monday Creek - February 2026



Nitrogen Oxides (NO_X) - ppb
Monday Creek - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	570	95.96	95.96
21 - 40	14	2.36	98.32
11 - 80	9	1.52	99.83
81 - 159	1	0.17	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 594

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Monday Creek - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	12	35	61	54	23	25	38	20	28	37	48	45	64	33	21	26	570
21 - 40	0	0	1	2	2	1	0	1	1	2	0	1	0	0	3	0	14
11 - 80	0	0	0	0	0	1	0	0	0	0	0	0	0	7	1	0	9
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	12	35	62	56	25	27	38	21	29	39	48	46	64	41	25	26	594

Total Number of Valid Hours: 594

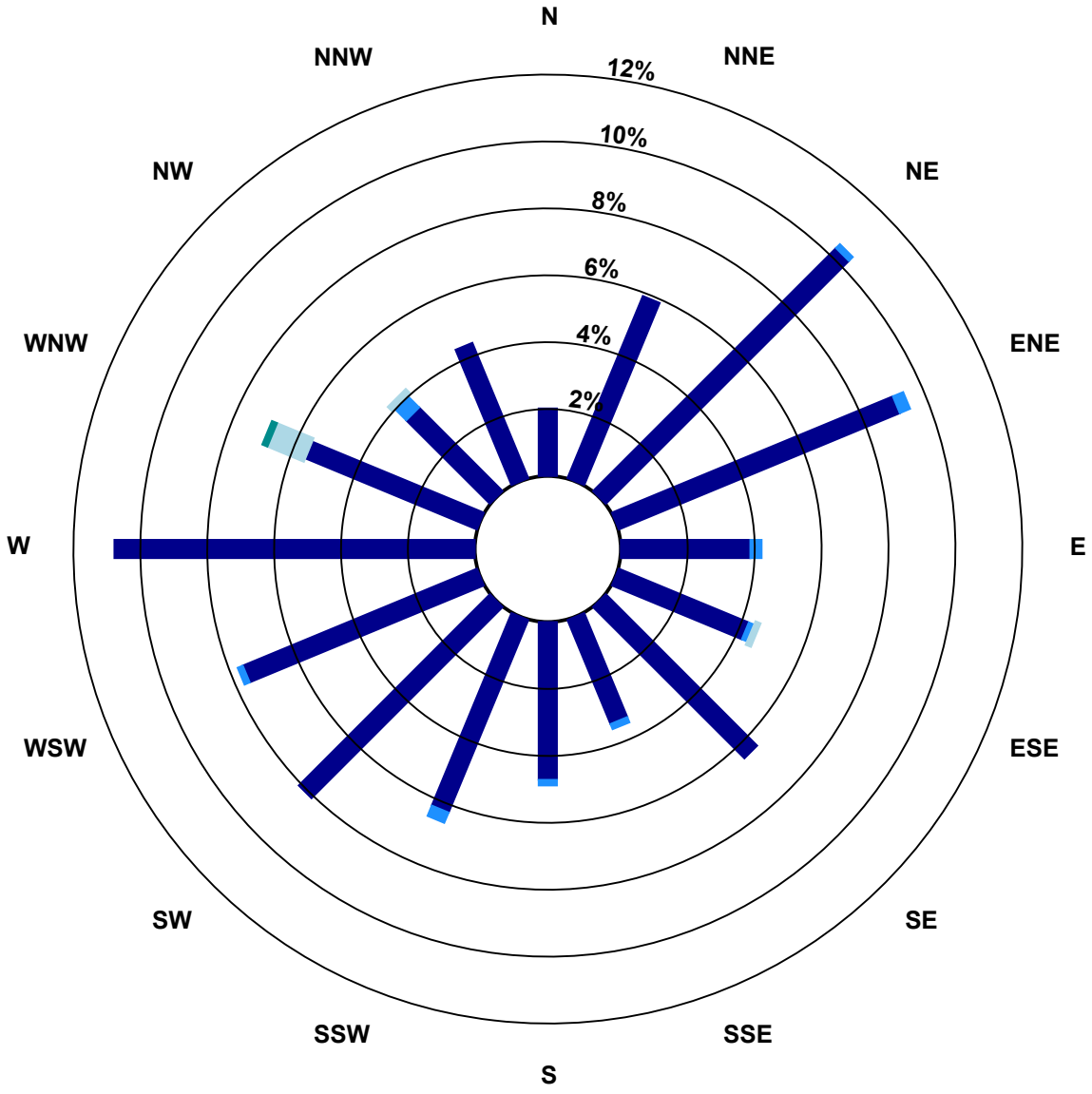
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Monday Creek



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

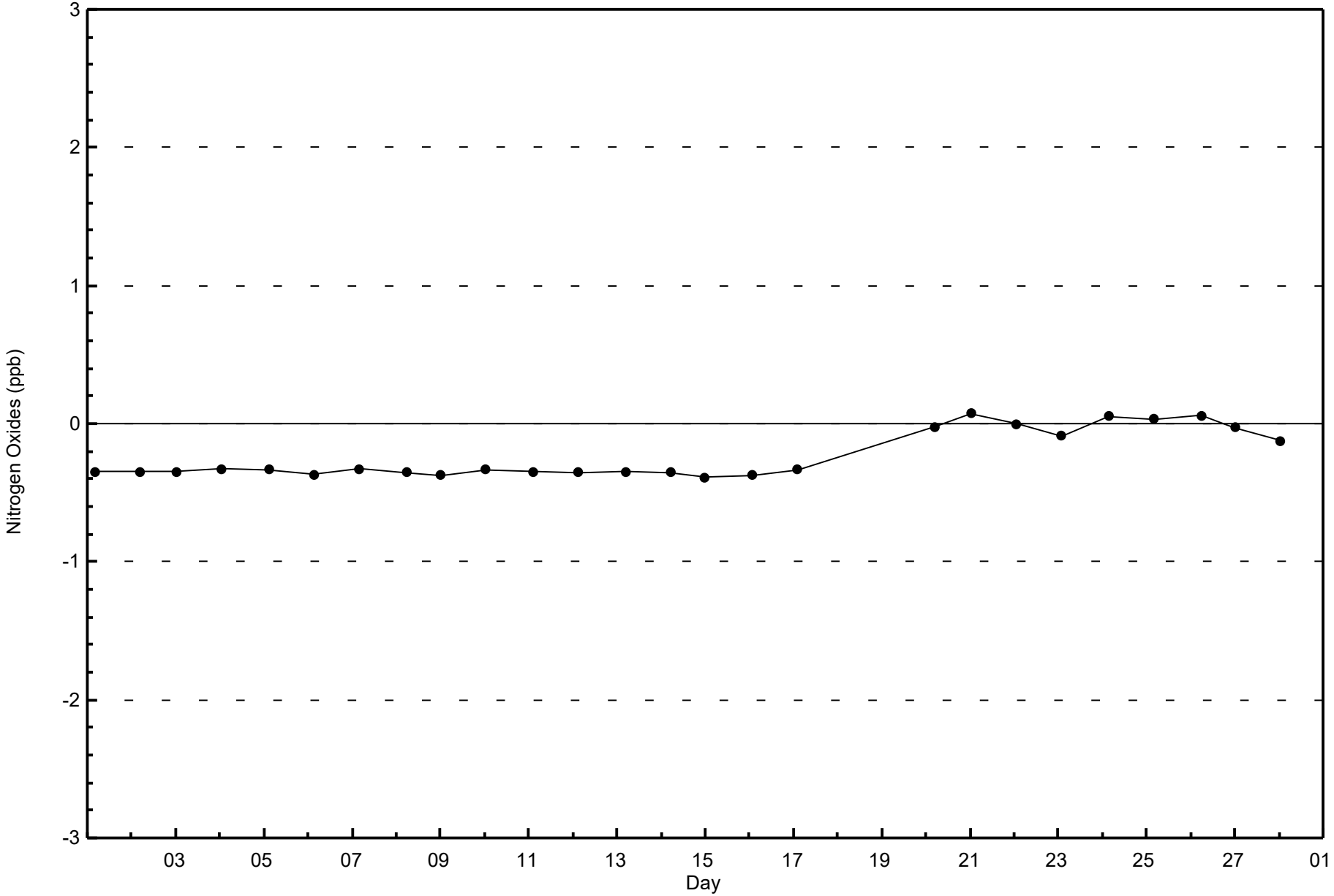
Total Number of Valid Hours: 594

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Monday Creek - February 2026

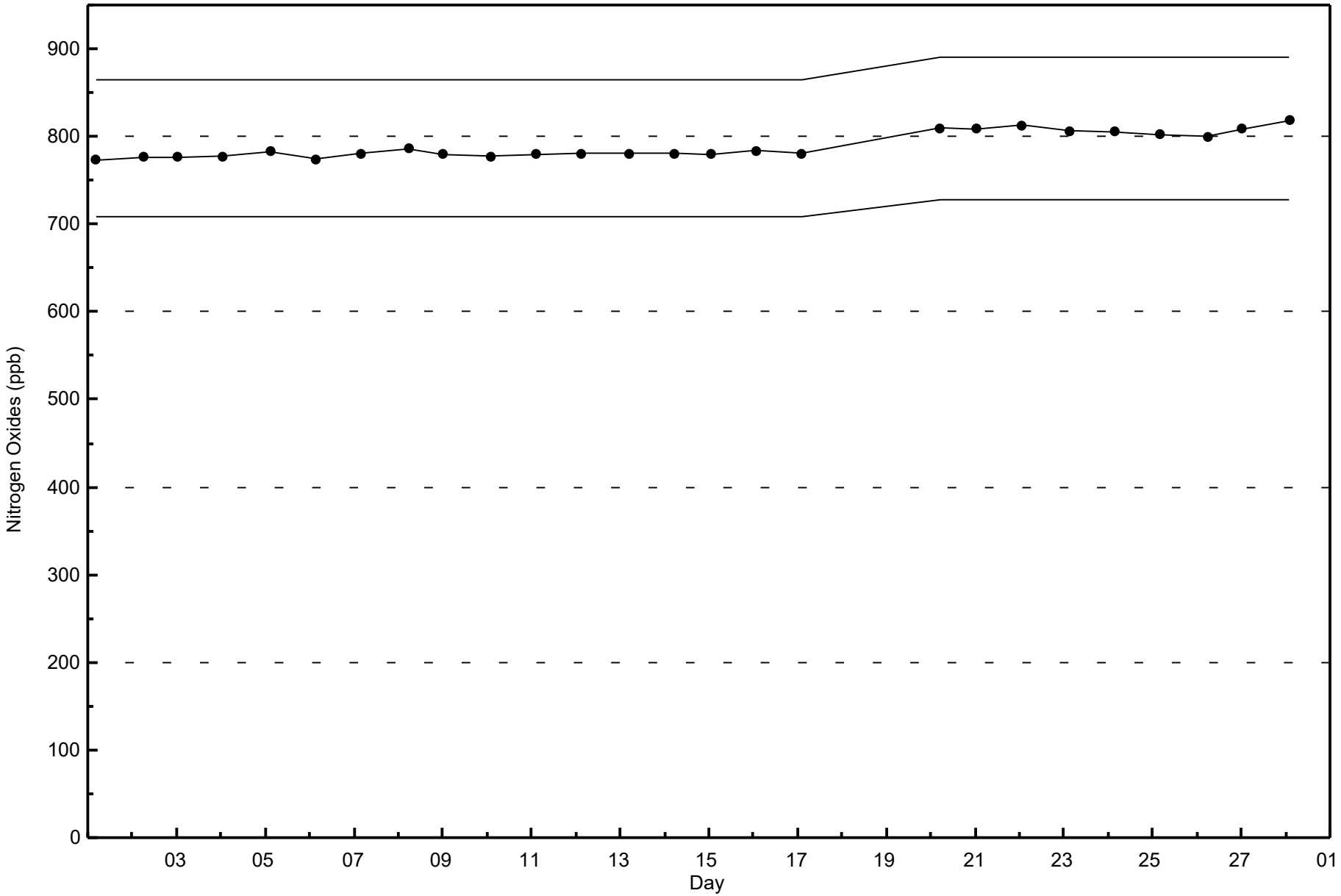


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Monday Creek - February 2026



Maximum Value: 10.0 C on Feb 4 15:00

Maximum Daily Average: 4.4 C on Feb 4

Minimum Value: -39.3 C on Feb 28 08:00

Minimum Daily Average: -28.7 C on Feb 19

Maximum Diurnal Average: -7.1 C at hour 15

Minimum Diurnal Average: -14.2 C at hour 8

Monthly Average: -11.04 C

Percentiles: P_1 = -37.6 P_{10} = -26.1 Q_1 = -18.8 Median = -8.7 Q_3 = -3.0 P_{90} = 1.8 P_{99} = 6.6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

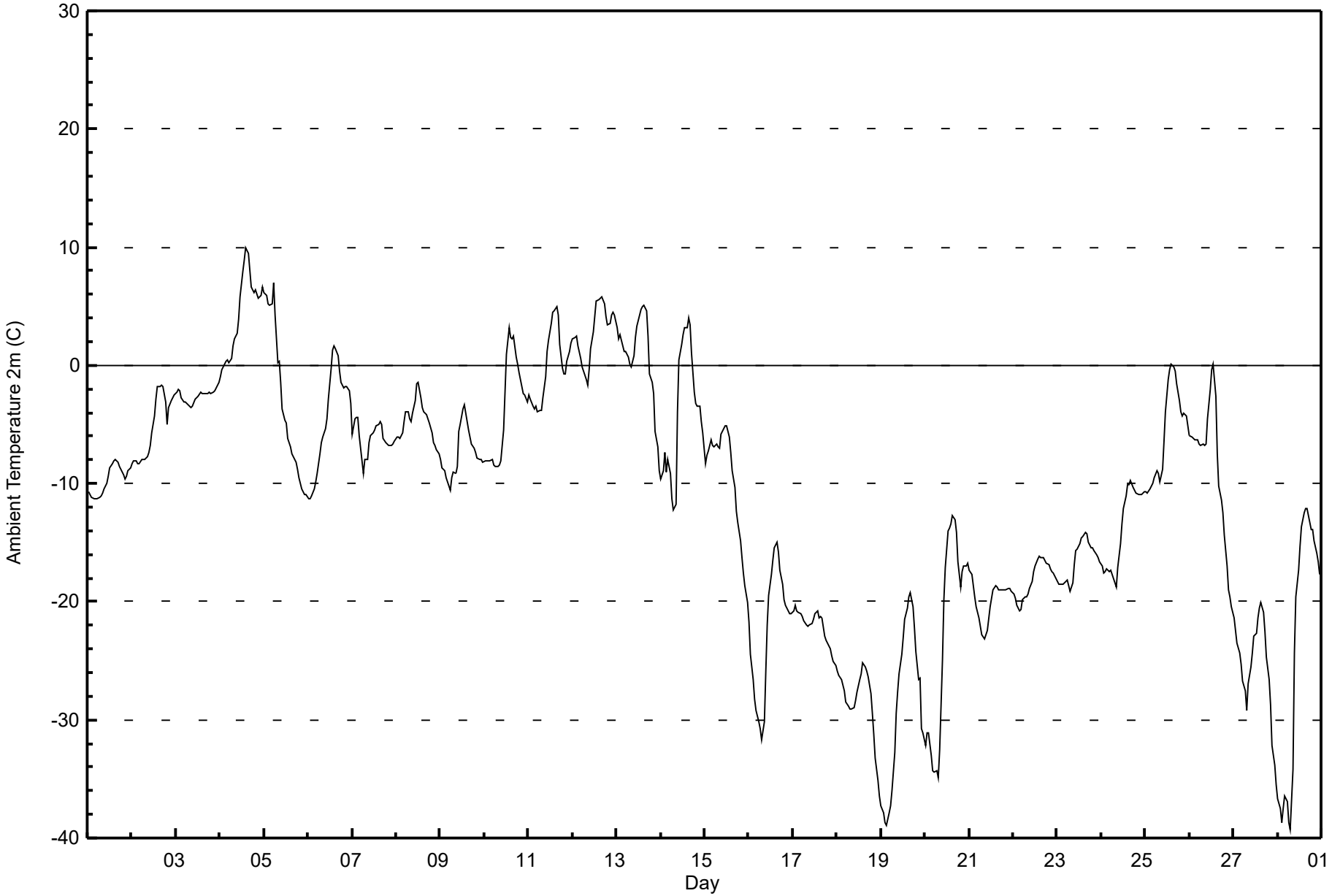
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-10.7	-11.0	-11.2	-11.3	-11.3	-11.3	-11.2	-11.0	-10.9	-10.4	-9.9	-9.3	-8.7	-8.4	-8.1	-8.0	-8.2	-8.5	-8.8	-9.3	-9.6	-9.4	-9.0	-8.6	-9.8	-8.0
2-Feb	-8.3	-8.1	-8.0	-8.3	-8.3	-8.0	-7.9	-7.9	-7.7	-7.3	-6.8	-5.7	-4.2	-2.9	-1.8	-1.8	-1.6	-1.8	-3.1	-5.1	-3.6	-3.0	-2.7	-2.6	-5.3	-1.6
3-Feb	-2.3	-2.1	-2.1	-2.7	-3.0	-3.2	-3.2	-3.5	-3.6	-3.4	-2.8	-2.7	-2.6	-2.3	-2.4	-2.4	-2.3	-2.4	-2.3	-2.4	-2.3	-2.1	-1.9	-1.4	-2.6	-1.4
4-Feb	-1.0	-0.3	0.1	0.3	0.5	0.3	0.6	1.6	2.2	2.7	3.9	5.8	7.9	8.9	10.0	9.5	8.1	6.7	6.2	6.4	6.0	5.6	5.9	6.6	4.4	10.0
5-Feb	6.1	5.9	5.2	5.1	5.2	7.0	4.2	0.2	0.3	-1.4	-3.7	-4.6	-4.9	-6.2	-6.8	-7.5	-7.8	-8.2	-8.8	-9.6	-10.5	-10.8	-10.9	-11.0	-3.1	7.0
6-Feb	-11.2	-11.2	-11.1	-10.5	-9.8	-9.1	-7.5	-6.6	-6.1	-5.4	-4.5	-2.9	-0.2	1.3	1.6	1.4	0.9	-0.5	-1.4	-1.9	-1.8	-1.8	-2.2	-3.2	-4.3	1.6
7-Feb	-5.8	-4.5	-4.4	-4.5	-6.0	-8.1	-9.2	-7.9	-7.9	-6.5	-6.0	-5.7	-5.4	-5.2	-5.0	-4.8	-5.0	-6.2	-6.5	-6.7	-6.8	-6.7	-6.6	-6.4	-6.2	-4.4
8-Feb	-6.1	-6.0	-6.2	-5.7	-4.7	-4.0	-3.9	-4.6	-4.7	-4.1	-3.0	-1.6	-1.4	-2.7	-3.5	-3.9	-4.2	-4.5	-4.9	-5.7	-6.5	-6.8	-7.1	-7.5	-4.7	-1.4
9-Feb	-8.0	-8.6	-8.9	-9.5	-9.9	-10.6	-9.5	-9.0	-9.2	-8.5	-5.6	-5.0	-3.7	-3.4	-4.1	-5.5	-6.1	-6.6	-7.0	-7.3	-7.8	-7.9	-8.0	-8.2	-7.4	-3.4
10-Feb	-8.1	-8.1	-8.1	-8.1	-8.0	-8.5	-8.6	-8.6	-8.5	-8.1	-5.5	-2.2	1.0	3.2	2.4	2.2	2.5	0.7	0.0	-0.6	-1.8	-2.3	-2.5	-3.1	-3.7	3.2
11-Feb	-2.5	-2.8	-3.5	-3.7	-3.5	-3.9	-3.9	-3.8	-2.7	-1.0	1.2	2.1	3.6	4.5	4.6	5.0	4.3	1.8	-0.2	-0.7	-0.7	0.4	1.1	1.9	-0.1	5.0
12-Feb	2.2	2.3	2.5	1.7	0.6	-0.1	-0.5	-1.2	-1.7	-0.4	1.4	2.9	4.2	5.4	5.6	5.7	5.8	5.2	4.1	3.4	3.6	4.2	4.5	4.3	2.7	5.8
13-Feb	3.2	2.3	2.6	1.6	1.2	1.2	0.8	0.1	-0.2	0.8	2.4	3.4	4.2	4.8	5.0	5.0	4.6	2.4	-0.7	-1.5	-2.4	-5.6	-6.9	-8.9	0.8	5.0
14-Feb	-9.6	-8.9	-7.4	-9.0	-8.0	-9.2	-11.3	-12.2	-11.7	-3.9	0.5	1.8	2.6	3.2	3.2	4.1	3.4	1.0	-2.3	-3.2	-3.5	-3.4	-4.8	-5.7	-3.9	4.1
15-Feb	-8.3	-7.7	-7.2	-6.3	-6.8	-6.9	-6.7	-6.8	-7.0	-5.8	-5.4	-5.1	-5.1	-6.1	-7.4	-8.9	-10.4	-12.3	-13.3	-14.9	-16.3	-17.6	-18.7	-20.1	-9.6	-5.1
16-Feb	-21.8	-24.4	-26.6	-28.3	-29.2	-30.1	-30.8	-31.7	-30.2	-25.9	-21.9	-19.5	-17.7	-16.4	-15.4	-15.0	-15.8	-17.3	-18.5	-19.8	-20.3	-20.8	-21.0	-21.0	-22.5	-15.0
17-Feb	-20.8	-20.3	-20.8	-20.9	-21.0	-21.3	-21.6	-22.0	-22.0	-22.0	-21.9	-21.5	-21.0	-20.8	-21.4	-21.3	-21.4	-22.9	-23.3	-23.6	-24.0	-24.6	-25.0	-25.4	-22.1	-20.3
18-Feb	-25.9	-26.3	-26.6	-27.0	-27.6	-28.5	-28.8	-29.0	-29.1	-29.0	-28.4	-27.7	-26.6	-26.1	-25.2	-25.6	-25.9	-26.3	-27.7	-29.4	-31.3	-33.2	-35.2	-36.5	-28.4	-25.2
19-Feb	-37.3	-37.9	-38.7	-38.9	-37.8	-37.3	-35.9	-32.8	-29.4	-27.7	-26.1	-24.4	-23.0	-21.5	-20.6	-19.6	-19.2	-20.4	-22.2	-24.2	-26.6	-26.5	-30.7	-31.1	-28.7	-19.2
20-Feb	-32.2	-31.1	-31.1	-33.0	-34.3	-34.4	-34.3	-34.9	-32.5	-24.9	-19.9	-17.1	-14.0	-13.8	-13.4	-12.7	-13.1	-14.1	-16.7	-18.7	-17.5	-17.0	-17.0	-16.8	-22.7	-12.7
21-Feb	-17.3	-17.7	-18.7	-19.6	-20.5	-21.3	-22.1	-22.9	-23.1	-22.9	-22.5	-20.4	-19.7	-19.0	-18.6	-18.8	-19.0	-19.0	-19.0	-19.0	-19.0	-18.9	-18.8	-19.1	-19.9	-17.3
22-Feb	-19.3	-19.7	-20.3	-20.8	-20.6	-19.8	-19.7	-19.6	-19.4	-18.9	-18.2	-17.5	-17.0	-16.4	-16.1	-16.2	-16.3	-16.5	-16.8	-16.9	-17.2	-17.4	-17.6	-18.0	-18.2	-16.1
23-Feb	-18.3	-18.5	-18.6	-18.5	-18.4	-18.2	-18.6	-19.2	-18.4	-16.8	-15.6	-15.6	-15.0	-14.6	-14.5	-14.1	-14.3	-15.0	-15.5	-15.4	-15.7	-16.0	-16.3	-16.6	-16.6	-14.1
24-Feb	-17.0	-17.5	-17.4	-17.2	-17.4	-17.3	-17.7	-18.4	-18.7	-17.1	-15.0	-13.4	-12.1	-11.0	-10.1	-10.1	-9.7	-10.4	-10.6	-10.9	-10.9	-10.9	-10.9	-10.7	-13.9	-9.7
25-Feb	-10.7	-10.8	-10.4	-10.2	-9.9	-9.6	-8.9	-9.1	-9.8	-8.8	-6.4	-4.0	-1.2	-0.4	0.1	-0.1	-0.5	-1.6	-3.0	-4.0	-4.2	-4.1	-4.2	-5.1	-5.7	0.1
26-Feb	-5.9	-6.1	-6.1	-6.4	-6.4	-6.6	-6.8	-6.7	-6.8	-6.7	-4.6	-2.0	-0.4	0.1	-2.6	-7.5	-10.2	-11.3	-12.5	-14.4	-17.0	-19.0	-19.6	-20.4	-8.6	0.1
27-Feb	-21.3	-22.5	-23.5	-24.3	-25.3	-26.7	-27.6	-29.3	-26.9	-25.5	-24.4	-22.9	-22.7	-21.3	-20.5	-20.1	-21.0	-22.5	-24.7	-26.6	-28.8	-32.1	-33.9	-35.5	-25.4	-20.1
28-Feb	-36.7	-37.5	-38.6	-37.5	-36.4	-36.9	-38.7	-39.3	-34.2	-24.4	-19.6	-17.4	-15.3	-13.6	-12.5	-12.1	-12.2	-12.7	-13.8	-13.9	-14.9	-15.9	-16.7	-17.8	-23.7	-12.1
	-12.7	-12.8	-13.0	-13.3	-13.5	-13.7	-13.9	-14.2	-13.6	-11.9	-10.3	-9.0	-7.8	-7.2	-7.1	-7.2	-7.7	-8.7	-9.8	-10.6	-11.1	-11.6	-12.0	-12.4	Diurnal Average	
	6.1	5.9	5.2	5.1	5.2	7.0	4.2	1.6	2.2	2.7	3.9	5.8	7.9	8.9	10.0	9.5	8.1	6.7	6.2	6.4	6.0	5.6	5.9	6.6	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Monday Creek - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	142	21.13	21.13
-20 - 0	431	64.14	85.27
0 - 10	98	14.58	99.85
10 - 20	1	0.15	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 97.9 % on Feb 7 04:00

Maximum Daily Average: 93.8 % on Feb 3

Minimum Value: 28.8 % on Feb 13 16:00

Minimum Daily Average: 42.9 % on Feb 13

Maximum Diurnal Average: 80.3 % at hour 8

Minimum Diurnal Average: 65.9 % at hour 15

Monthly Average: 74.58 %

Percentiles: P_1 = 36.3 P_{10} = 55.1 Q_1 = 67.8 Median = 74.8 Q_3 = 85.8 P_{90} = 92.9 P_{99} = 97.0

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

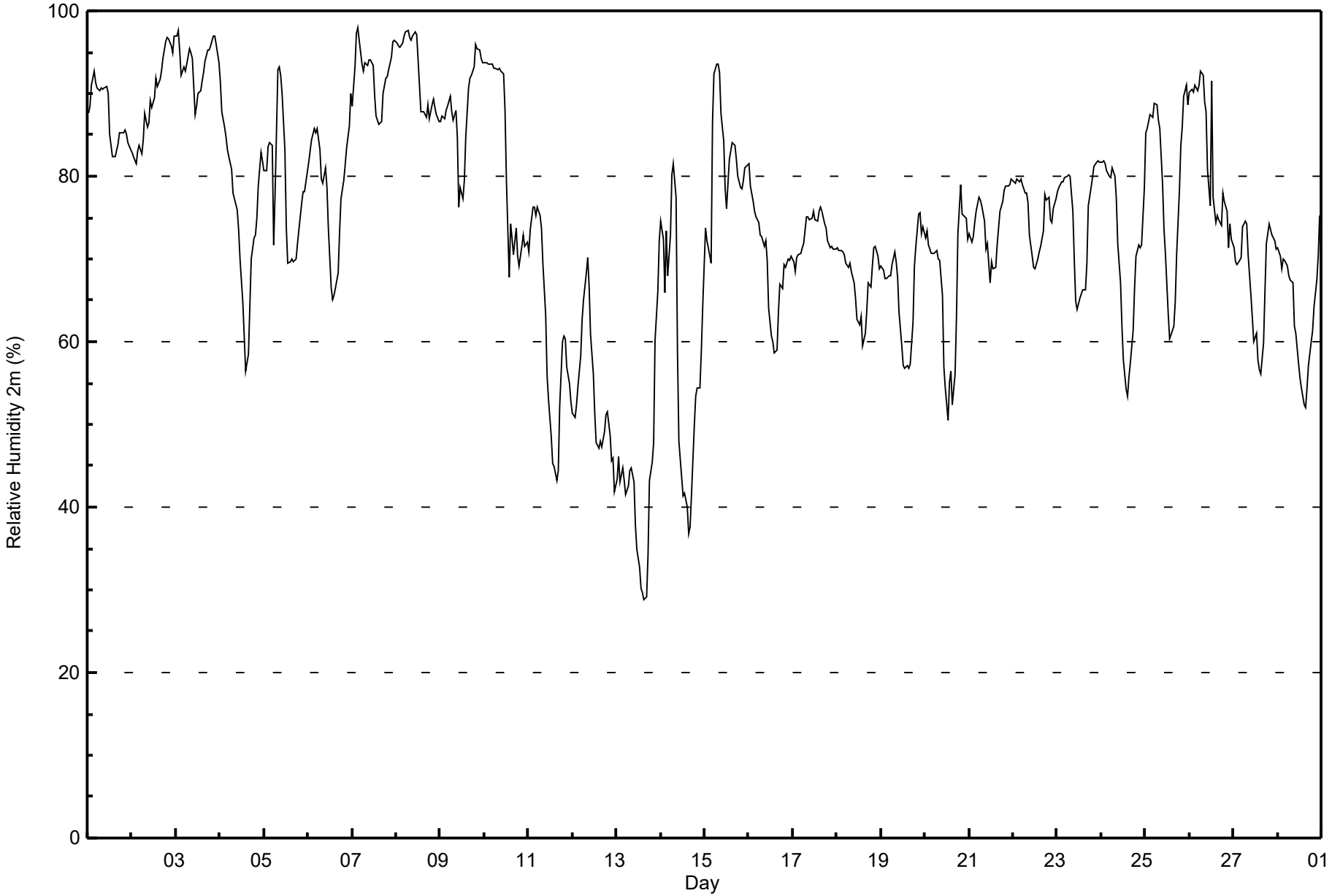
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	87.6	88.5	91.0	92.7	91.3	90.7	90.4	90.7	90.5	90.7	90.9	90.0	85.0	82.4	82.3	82.4	83.9	85.2	85.3	85.3	85.6	85.1	84.1	83.2	87.3	92.7
2-Feb	82.9	82.4	81.6	83.1	83.8	82.7	84.4	87.7	85.9	86.5	89.2	88.3	89.5	91.8	90.8	91.7	92.7	94.2	96.3	96.8	96.7	95.7	94.9	96.9	89.4	96.9
3-Feb	96.9	97.7	95.0	92.2	93.3	92.8	93.6	95.3	95.0	94.3	87.5	88.5	90.0	90.3	91.5	92.5	93.9	95.2	95.3	95.7	96.9	97.0	95.9	93.7	93.8	97.7
4-Feb	91.4	87.7	85.9	84.7	83.2	82.4	80.8	78.0	77.2	75.9	73.6	70.0	64.8	60.6	56.4	58.5	64.3	70.1	72.5	72.9	74.9	78.9	82.9	81.9	75.4	91.4
5-Feb	80.7	80.7	83.5	84.1	83.7	71.8	77.8	92.8	93.3	92.2	90.0	83.2	73.8	69.5	69.6	70.0	69.6	70.0	71.9	73.5	76.9	78.2	78.1	79.3	78.9	93.3
6-Feb	81.6	83.1	84.4	85.8	85.3	85.7	83.2	79.6	79.1	81.0	78.7	73.7	66.6	65.1	65.6	66.4	68.2	73.3	77.4	79.5	81.4	83.5	86.2	90.0	78.5	90.0
7-Feb	88.5	93.2	97.3	97.9	96.5	93.5	92.7	93.7	93.5	94.0	94.1	93.4	89.8	87.3	86.4	86.4	86.6	89.9	91.9	92.0	92.9	94.5	96.3	96.5	92.4	97.9
8-Feb	96.2	95.8	95.6	96.1	96.9	97.5	97.6	96.8	96.5	97.0	97.4	97.1	94.1	87.9	87.9	87.8	87.2	88.6	87.0	88.7	89.3	88.3	87.4	86.6	92.5	97.6
9-Feb	86.6	87.3	87.0	87.9	88.6	89.7	87.7	86.8	87.9	84.7	76.4	78.7	77.3	79.5	84.8	90.7	91.8	92.3	93.2	95.9	95.4	95.2	94.2	93.7	88.0	95.9
10-Feb	93.7	93.7	93.5	93.6	93.6	93.1	93.0	92.9	93.0	92.7	92.3	87.9	79.5	67.9	74.2	72.5	70.4	73.7	70.3	69.1	71.5	72.9	71.6	72.1	82.4	93.7
11-Feb	70.8	73.5	76.3	76.3	75.2	76.2	75.2	73.7	69.5	63.2	55.9	53.1	48.4	45.2	44.9	43.2	44.5	52.2	60.0	60.7	60.3	56.9	55.0	52.7	61.0	76.3
12-Feb	51.3	50.9	52.4	54.6	58.4	62.7	65.2	68.3	70.1	66.6	60.8	56.1	51.4	47.8	47.2	47.9	47.3	49.2	51.2	51.5	48.6	45.6	46.0	41.8	53.9	70.1
13-Feb	43.5	46.2	43.0	44.8	43.3	41.5	42.5	44.5	44.8	43.1	37.8	34.9	32.7	30.2	29.6	28.8	29.2	34.3	43.2	45.3	47.9	60.2	66.2	72.3	42.9	72.3
14-Feb	74.5	72.4	65.9	73.4	67.9	72.8	80.1	81.6	77.5	58.9	47.9	43.6	41.4	41.6	40.1	36.8	37.5	41.4	49.9	53.4	54.4	54.5	58.8	64.2	57.9	81.6
15-Feb	73.8	72.1	71.3	69.5	86.6	92.4	93.6	93.6	92.6	87.7	84.2	78.5	76.0	82.1	83.0	84.0	83.7	82.0	80.0	78.6	78.4	79.5	81.0	81.4	81.9	93.6
16-Feb	81.5	78.8	76.9	75.7	75.0	74.4	72.8	72.8	71.5	72.3	69.8	64.1	60.8	60.0	58.7	59.0	63.5	66.9	66.4	69.3	69.0	70.0	69.9	70.4	69.6	81.5
17-Feb	69.6	68.5	70.2	70.5	70.7	71.3	71.8	75.0	75.0	74.8	75.0	75.8	74.8	74.6	75.8	76.2	75.7	74.3	73.8	72.1	71.4	71.6	71.2	71.3	73.0	76.2
18-Feb	71.3	71.0	71.0	70.8	70.5	69.5	69.0	69.4	68.5	67.1	65.3	62.8	62.0	63.1	59.4	60.9	63.8	67.1	66.6	69.1	71.3	71.5	70.3	68.7	67.5	71.5
19-Feb	69.1	68.6	67.6	67.5	68.0	68.0	69.2	70.9	69.6	67.8	63.6	59.4	57.1	56.7	57.1	56.7	57.3	62.4	69.1	71.5	75.5	75.7	73.1	74.0	66.5	75.7
20-Feb	72.5	73.5	71.6	70.7	70.6	70.8	71.0	69.9	69.8	65.5	57.0	54.3	50.5	55.1	56.4	52.3	56.1	63.1	73.1	79.0	75.5	75.3	75.0	72.4	66.7	79.0
21-Feb	73.0	72.0	72.7	74.3	75.8	77.5	77.1	76.4	74.5	71.2	71.9	67.1	69.7	68.8	69.0	71.6	73.7	75.7	77.0	78.2	78.9	78.9	79.0	79.6	74.3	79.6
22-Feb	79.3	79.2	79.6	79.4	79.6	79.0	77.9	78.0	76.8	72.9	70.4	69.0	68.7	70.0	70.9	71.6	73.4	77.7	77.2	77.5	74.7	74.5	76.1	77.3	75.4	79.6
23-Feb	78.1	78.7	79.3	79.3	79.8	80.1	80.2	80.0	75.8	70.1	64.9	64.0	65.2	65.8	66.3	66.3	69.4	76.5	78.7	79.8	81.2	81.8	81.8	81.6	75.2	81.8
24-Feb	81.7	81.8	81.6	80.7	80.0	79.8	81.0	80.0	77.2	71.8	67.1	61.8	57.9	54.3	53.4	55.7	57.4	61.4	66.4	70.4	71.6	71.3	71.7	78.7	70.6	81.8
25-Feb	85.2	85.8	87.4	87.3	87.2	88.7	88.7	86.7	85.8	78.9	73.5	70.6	63.4	60.3	60.8	61.8	64.7	70.4	78.2	83.7	85.9	89.7	91.0	88.7	79.4	91.0
26-Feb	90.1	90.5	90.1	91.0	90.3	91.0	92.6	92.1	88.9	87.8	80.9	76.4	91.6	77.5	74.5	75.2	74.8	74.1	78.0	76.9	75.7	71.4	74.2	72.3	82.4	92.6
27-Feb	71.4	69.7	69.4	69.8	70.2	73.9	74.6	74.3	70.6	65.6	62.8	60.1	61.0	57.9	56.6	56.2	59.8	66.2	71.9	74.3	73.5	72.8	72.2	71.2	67.7	74.6
28-Feb	71.3	70.3	68.8	70.0	69.8	69.1	68.0	67.5	67.0	61.9	61.0	57.2	55.5	54.4	52.3	52.0	54.4	57.1	59.9	61.4	64.3	67.4	70.4	75.2	63.6	75.2
	78.4	78.3	78.2	78.7	79.1	79.2	79.7	80.3	79.2	76.3	72.9	70.0	67.8	66.0	65.9	66.3	67.7	70.9	73.6	75.1	75.7	76.3	76.9	77.4	Diurnal Average	
	96.9	97.7	97.3	97.9	96.9	97.5	97.6	96.8	96.5	97.0	97.4	97.1	94.1	91.8	91.5	92.5	93.9	95.2	96.3	96.8	96.9	97.0	96.3	96.9	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Monday Creek - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	10	1.49	1.49
40 - 60	91	13.54	15.03
60 - 80	332	49.40	64.43
80 - 100	239	35.57	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Monday Creek - February 2026

Maximum Speed: 26 km/h on Feb 26 14:00

Maximum Daily Speed Average: 18.9 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 27 22:00

Minimum Daily Speed Average: 1.7 km/h on Feb 25

Maximum Diurnal Speed Average: 4.8 km/h at hour 14

Minimum Diurnal Speed Average: 0.1 km/h at hour 4

Monthly Average Velocity: 1.4 km/h 299.0 deg

Percentiles: P_1 = 1 P_{10} = 3 Q_1 = 5 Median = 8 Q_3 = 12 P_{90} = 16 P_{99} = 22

Hours in Service: 672

Hours of Data: 672

Hours of Missing Data: 0

Percent Operational Time: 100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE7	ENE5	ESE6	E7	E6	ESE5	SE6	SE7	SE7	SE9	SE10	SSE10	SSE11	SSE11	SSE11	SSE10	SE11	SE9	SE9	SSE7	SSE7	SSE8	S7	SSE7	SE7.3	SSE11
2-Feb	SSE7	S6	S7	SSE6	S6	S9	S8	S9	S10	SSW10	S8	SSW9	SW9	SW11	WSW12	WSW13	WSW13	WSW7	NNE1	NE1	W4	WNW5	WNW7	WNW6	SW5.8	WSW13
3-Feb	WNW6	NW6	NNE7	NNE5	NE6	NNE4	NNE4	ENE5	ENE4	SSW1	WNW7	W7	WSW6	SSW7	SW8	SSW8	SSW9	SSW10	SSW11	S9	S10	S11	S11	S10	SSW3.2	S11
4-Feb	S11	SSW11	S10	SSW12	SSW12	SSW10	SW12	WSW14	WSW15	W19	W15	WNW19	W17	W15	W21	W13	W11	W11	W10	W11	W11	W10	W8	WSW13	WSW11.1	W21
5-Feb	WSW14	SW10	S3	SW5	W6	WNW20	N13	NNE13	NNW8	NNE17	N13	NW14	NW18	NNW20	NNW14	N12	N9	NNE9	NE7	ENE8	ENE9	E9	E9	ENE10	N6.2	NNW20
6-Feb	E7	ESE5	E8	E7	ENE6	E7	SE7	SE9	SE8	SE7	SE8	SSE10	SE8	SSE7	SSE8	SE7	SE8	SE6	SE5	S6	SSW8	SSW7	SSW7	SSE2	SE5.9	SSE10
7-Feb	WNW2	S7	WSW3	SSW4	SSW3	WSW3	WSW3	NNW2	NNE4	NE6	NNE6	NE6	NNE6	NNE6	ENE5	ENE8	NE8	NE10	ENE10	ENE9	ENE8	ENE7	ENE6	NE5	NE3.5	ENE10
8-Feb	NE4	NNW4	NNW6	NW2	E2	NW3	WNW4	NW7	W3	E2	W2	WNW12	NW18	NW16	WNW15	NW18	NW13	NW12	NNW11	NNW10	N7	NNW7	NNW10	NNW11	NW7.5	NW18
9-Feb	NW10	NNW6	WNW6	WNW3	SE1	WNW2	SW3	ESE4	E6	E6	E4	NE6	NE5	NE7	NE9	NE11	NE9	NE8	NE6	NE8	NE7	ENE7	ENE7	ENE6	NE4.4	NE11
10-Feb	ENE5	NE5	NNE3	ENE3	ESE4	SE5	ESE5	ESE4	ESE4	E3	E3	NE3	SSW4	SSW7	S5	SSW6	SSW8	SSW10	SSW10	SSW11	SSW9	SSW9	SW10	SW7	S3.7	SSW11
11-Feb	SW9	SW8	SW9	SW9	SW9	SSW11	SSW10	SW12	SW14	SW14	WSW16	WSW16	WSW17	W18	WSW15	W17	WSW10	SW8	SW9	SSW8	SW9	SW12	SW13	SW13	SW11.3	W18
12-Feb	WSW15	WSW16	WSW15	WSW15	W17	W16	W17	W13	W9	W12	W13	W13	WSW15	WSW16	WSW14	SW10	SW14	SW14	SW12	SW13	SW17	SW20	WSW18	WSW17	WSW14.1	SW20
13-Feb	WSW15	WSW14	WSW16	WSW14	WSW14	W16	W16	W15	W15	W17	W18	WNW20	WNW17	WNW21	WNW20	W18	W13	WSW7	SSW6	SW9	SW4	W2	SSW2	SSE2	W12.1	WNW21
14-Feb	SSW2	SW3	SSW3	S4	S4	S2	SSW2	SE3	S2	S5	SW9	W12	WNW13	WNW13	W8	W9	WNW13	WNW9	W7	W6	W9	W10	W7	WSW4	W5.3	WNW13
15-Feb	WSW3	SW5	WSW4	NW5	WNW4	W2	W4	WNW6	WNW7	NNW7	N7	NE4	N6	NNE10	NNE12	NNE11	NNE12	NNE12	NE9	NE8	NE7	NE7	NE8	NNE6	N4.7	NNE12
16-Feb	NNE7	NE3	NE2	NNE2	ENE1	SE2	E1	E1	E2	ENE3	ENE6	ENE7	ENE7	ENE11	ENE11	ENE13	ENE14	ENE14	ENE12	ENE10	ENE12	ENE13	ENE15	ENE15	ENE7.4	ENE15
17-Feb	ENE12	NE13	NE15	NE15	NE17	NE18	NE19	NE19	NE19	NE21	NE19	NE20	NE23	NE24	NNE18	NNE19	NNE22	NNE20	NNE22	NNE23	NNE22	NNE22	NNE20	NNE18	NNE18.9	NE24
18-Feb	NNE17	NNE18	NNE16	NNE15	N15	N14	N13	N12	N12	N13	N14	NNE14	NNE12	N10	N10	NNE9	NNE9	NNW8	NNW8	NW5	WNW6	WNW4	WSW2	WSW2	N9.9	NNE18
19-Feb	S1	SSE1	SE1	SSE1	ESE2	SE2	S3	SSW3	SW5	WSW9	W10	WSW10	WSW13	WSW14	WSW15	WSW11	WSW10	WSW8	SW8	SSW6	SSW5	SSW5	SSW5	S5	SW5.6	WSW15
20-Feb	S5	S6	E4	ESE3	E1	E2	ESE2	ENE1	ENE2	NW2	NNW2	NE4	NNE3	NNE4	NE5	ENE3	NNE6	NNE5	NE3	ENE2	NE4	NE3	NE3	NNE9	NE2.3	NNE9
21-Feb	NE6	NNE7	NE7	NNE6	NE5	N5	NNE9	NE11	NE12	NNE13	NNE12	ENE13	ENE10	NNE11	NNE13	NE12	ENE10	NE9	NE8	NE9	ENE11	ENE8	ENE7	ENE9	NE8.8	NNE13
22-Feb	ENE9	ENE9	ENE9	ENE8	E8	ESE7	SE7	ESE7	ESE9	SE12	ESE11	ESE12	ESE12	ESE13	ESE13	ESE14	SE13	ESE12	SE11	SE9	SE11	SE10	ESE8	ESE9	ESE9.5	ESE14
23-Feb	SE8	SE7	SE6	SE5	SE5	S4	SW4	S4	WSW6	WNW8	NW7	W5	NW6	NW9	WNW9	WNW10	WNW9	WNW8	WNW8	WNW7	WNW6	W6	W6	W6	W3.4	WNW10
24-Feb	W7	W8	W9	W9	W7	W7	W7	W8	W8	W10	W9	W11	WSW12	W13	W14	WSW11	W9	WSW7	SW8	S6	SSE6	SSE5	SSE6	S6	WSW6.9	W14
25-Feb	SE8	SE9	SE9	SE6	SE5	SSE4	WNW3	NW7	WNW5	WNW6	WNW8	NW7	NW3	W10	WSW13	WSW10	WSW8	WSW6	ENE2	ENE2	SE2	ESE2	NE5	NE6	WSW1.7	WSW13
26-Feb	NE5	NE4	ENE5	ENE6	NE8	ENE7	E4	NNW6	NNW5	WNW4	NNE4	NW2	WNW12	WNW26	NW24	NNW23	NW20	NW21	NW17	NNW20	NNW22	NNW18	NNW15	NNW18	NNW10.1	WNW26
27-Feb	NNW15	NNW14	NNW12	NW9	NW8	WNW7	NNW5	NNW5	N5	NE6	N5	N6	N7	NE4	NE6	NE6	ENE7	ENE7	NE8	NE5	NNE3	NW0	SE1	E1	N5.0	NNW15
28-Feb	ESE1	E2	ESE1	E1	SSE1	E1	E2	E2	ESE2	SW3	SSW8	SW12	WSW12	SW14	SW15	SW18	SW14	SSW11	SSW12	SW10	SW10	SW10	SW8	SW7	SW6.6	SW18
	NNW0.3	WSW0.3	N0.4	WSW0.1	NNE0.2	W1.1	WNW1.0	NW1.0	NW1.2	NW1.6	NW2.3	WNW3.1	WNW4.0	WNW4.8	WNW4.5	WNW3.3	NW2.3	NW1.7	NNW0.4	N0.3	W0.3	WSW0.7	WNW0.7	NNW0.7	Diurnal Average	
	NNE17	NNE18	WSW16	WSW15	W17	WNW20	NE19	NE19	NE19	NE21	NE19	NE20	NE23	WNW26	NW24	NNW23	NNE22	NW21	NNE22	NNE23	NNE22	NNE22	NNE20	NNW18	Diurnal Maximum	

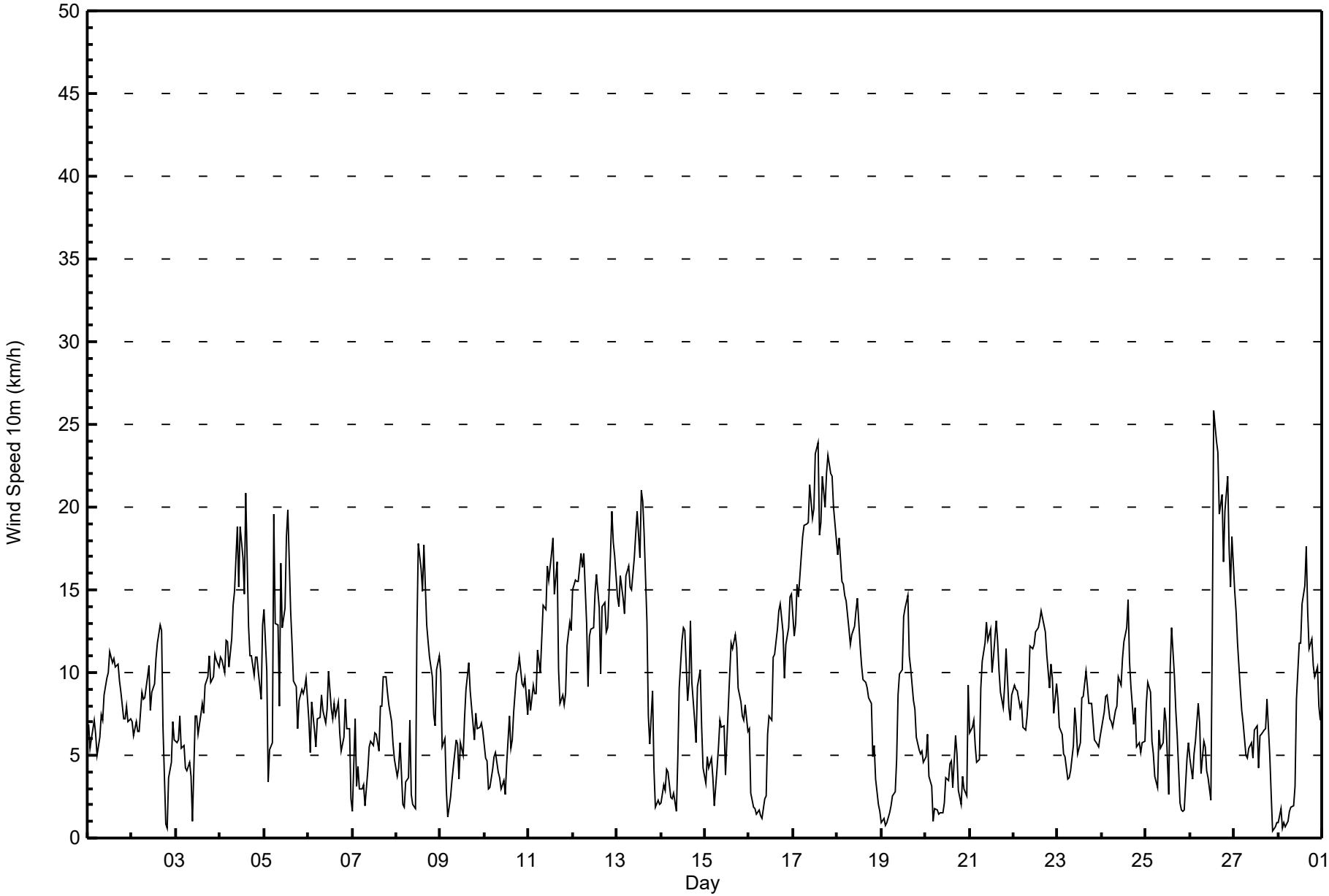
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Monday Creek - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	174	25.89	25.89
6 - 11	318	47.32	73.21
12 - 19	155	23.07	96.28
20 - 28	25	3.72	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Monday Creek - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	3	12	21	15	18	15	11	7	13	12	8	8	7	10	8	6	174
6 - 11	8	17	33	33	11	7	29	16	21	27	24	15	35	21	9	12	318
12 - 19	10	17	11	10	0	6	2	0	0	3	17	33	23	8	8	7	155
20 - 28	0	7	4	0	0	0	0	0	0	0	1	0	1	5	3	4	25
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	21	53	69	58	29	28	42	23	34	42	50	56	66	44	28	29	672

Total Number of Valid Hours: 672

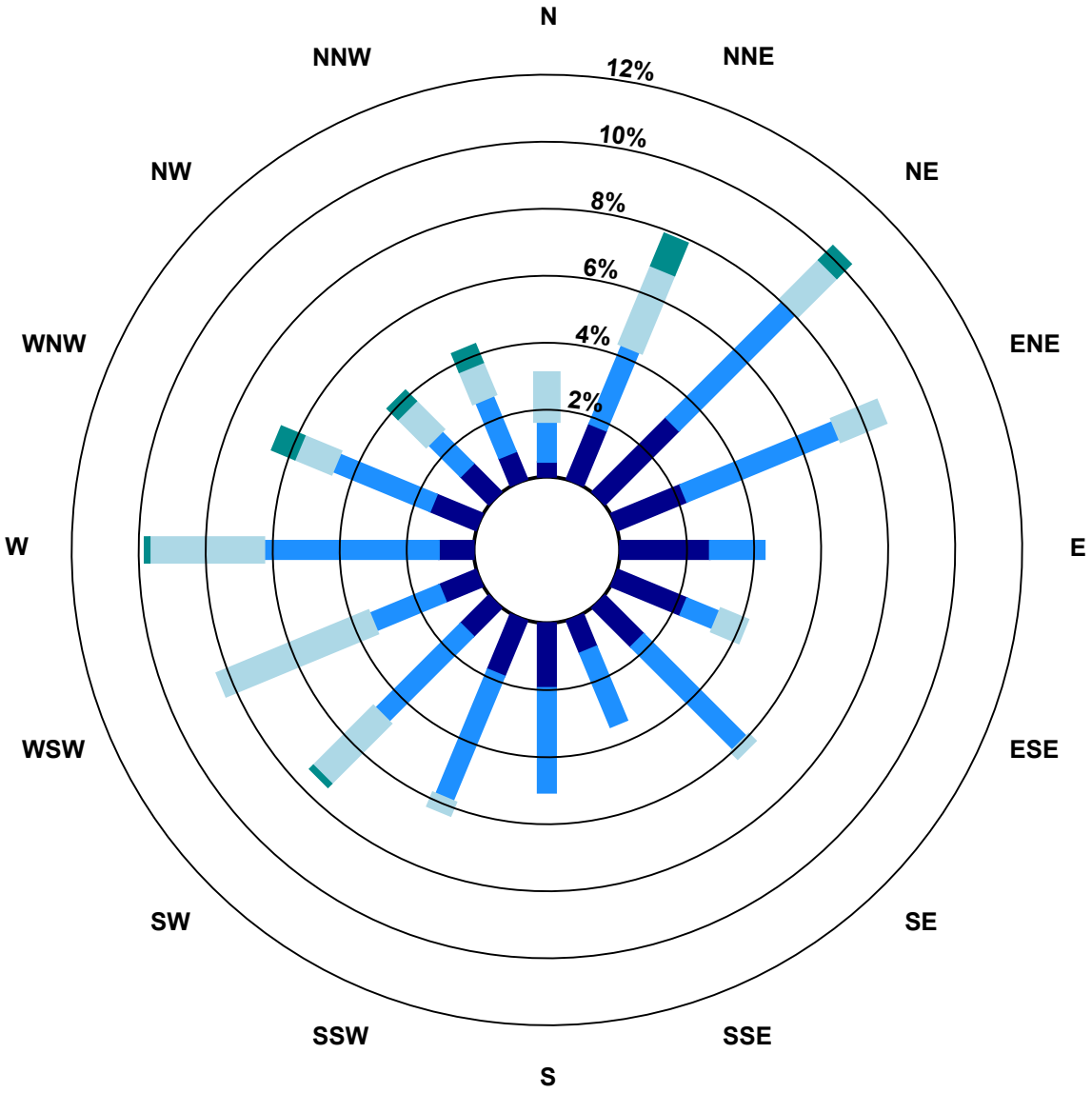
Total Number of Hours: 672

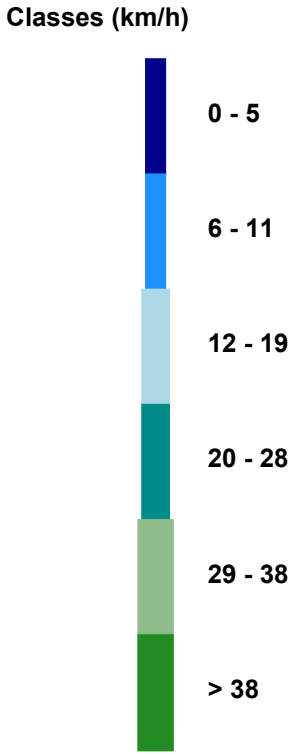
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Monday Creek





Total Number of Valid Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Monday Creek - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 9 km/h on Feb 5 06:00

Minimum Value: 0 km/h on Feb 18 23:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	1	2	1	1	1	1	2	1	2	2	3	3	3	2	2	2	2	2	2	2	2	2	2	3
2-Feb	2	1	2	2	2	3	2	2	3	3	2	3	2	2	3	3	3	3	1	1	1	1	2	1	3
3-Feb	1	1	2	2	2	1	1	1	1	1	2	2	2	2	3	2	3	3	3	3	3	3	3	3	3
4-Feb	3	4	3	3	3	4	4	3	4	4	3	3	4	4	5	3	2	1	1	2	2	2	2	3	5
5-Feb	3	4	2	2	2	9	5	3	3	5	3	5	5	5	3	3	3	2	2	2	1	2	1	2	9
6-Feb	1	1	1	1	1	1	1	2	1	2	2	3	2	2	2	1	2	2	1	2	2	2	2	2	3
7-Feb	2	2	1	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	2
8-Feb	1	1	1	1	1	2	1	1	2	1	2	5	4	4	3	4	4	4	3	2	2	1	2	2	5
9-Feb	3	3	2	1	1	2	1	1	1	1	1	1	1	1	2	2	2	1	1	1	2	1	1	1	3
10-Feb	1	1	1	1	1	1	2	1	1	1	1	1	3	2	1	2	2	2	3	3	2	2	2	2	3
11-Feb	2	2	2	3	2	2	2	2	3	3	4	4	5	4	4	4	2	2	2	2	2	2	3	3	5
12-Feb	3	3	3	4	3	4	3	3	2	4	3	3	3	4	4	3	4	3	3	3	4	5	5	4	5
13-Feb	3	3	4	4	3	3	3	3	3	4	4	4	4	5	4	4	4	2	2	1	1	1	1	1	5
14-Feb	1	1	1	1	1	1	1	1	1	2	2	5	4	3	3	4	3	3	1	1	2	2	2	1	5
15-Feb	1	1	1	2	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	2	1	2	1	2	3
16-Feb	1	1	2	1	1	1	1	1	1	1	2	2	2	3	3	3	2	2	2	2	2	2	3	3	3
17-Feb	3	3	3	3	4	4	4	4	4	4	4	4	5	6	4	5	6	5	5	6	5	5	5	4	6
18-Feb	5	5	4	4	4	4	3	3	3	4	3	3	3	3	3	2	2	3	2	1	1	1	0	1	5
19-Feb	1	2	1	1	1	1	1	1	2	3	3	3	3	3	3	3	2	2	1	1	1	1	1	1	3
20-Feb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
21-Feb	2	2	2	2	1	1	3	2	2	3	2	3	3	3	3	2	2	2	1	3	2	2	2	2	3
22-Feb	2	2	1	2	1	1	1	1	2	3	2	2	3	3	2	3	3	3	3	2	2	2	1	2	3
23-Feb	2	2	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2
24-Feb	1	1	1	1	1	1	1	2	1	2	2	2	3	3	3	3	2	2	2	1	1	1	2	1	3
25-Feb	2	2	2	2	1	1	2	1	1	1	2	2	2	3	3	3	2	3	1	1	1	1	2	1	3
26-Feb	1	2	2	2	2	1	1	2	2	1	2	1	5	6	6	6	5	6	5	5	5	4	4	4	6
27-Feb	4	3	3	2	3	2	1	1	1	2	2	3	2	2	2	2	2	1	1	3	1	1	1	1	4
28-Feb	1	1	1	1	1	1	1	1	1	2	3	3	3	4	4	4	4	3	3	3	2	2	2	2	4
	5	5	4	4	4	9	5	4	4	5	4	5	5	6	6	6	6	6	5	6	5	5	5	4	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Monday Creek - February 2026

Direction of Maximum Speed: 300 deg on Feb 26 14:00
Direction of Maximum Daily Speed Average: 33.2 deg on Feb 17

Direction of Minimum Speed: 316 deg on Feb 27 22:00

Direction of Minimum Daily Speed Average: 1.7 deg on Feb 25

Monthly Average Direction: 299.0 deg

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	56	65	106	97	95	109	125	135	126	130	141	153	157	152	147	150	135	142	145	148	156	155	177	166	137.0
2-Feb	167	171	170	166	177	180	186	189	191	197	186	206	232	227	246	241	244	258	29	50	280	287	302	297	214.7
3-Feb	303	317	24	25	51	23	27	63	59	196	287	272	245	213	226	212	204	197	199	191	189	187	187	186	211.8
4-Feb	180	192	189	198	207	210	227	240	256	268	271	282	264	265	281	270	270	274	275	267	265	280	265	255	252.8
5-Feb	241	235	175	214	279	284	358	24	334	15	2	326	320	327	340	352	358	24	45	67	74	80	82	71	349.4
6-Feb	88	110	96	94	67	88	125	131	128	134	131	148	130	151	153	131	133	142	140	187	197	193	202	151	135.1
7-Feb	285	191	255	208	213	248	243	343	32	40	29	44	30	32	58	73	39	42	65	65	75	62	63	54	52.9
8-Feb	40	348	339	323	86	325	300	308	265	99	266	301	304	310	303	305	317	320	329	344	352	338	340	329	320.0
9-Feb	325	344	303	292	135	299	229	111	82	82	84	39	50	41	39	40	52	40	52	50	37	60	57	68	40.9
10-Feb	63	52	17	66	119	131	117	113	120	101	93	35	208	212	187	194	197	199	201	207	209	209	215	219	181.7
11-Feb	220	215	220	225	215	201	211	215	227	236	253	250	255	265	252	261	248	218	217	209	227	229	234	235	234.6
12-Feb	240	247	249	249	268	265	265	265	268	262	262	259	241	239	243	227	226	225	216	221	230	235	254	249	246.2
13-Feb	241	237	257	258	258	265	269	262	266	263	271	287	289	288	287	277	276	241	210	216	232	268	210	148	265.1
14-Feb	197	220	200	183	169	188	192	124	169	189	229	276	287	291	278	275	291	296	272	277	261	267	271	243	262.6
15-Feb	237	231	243	308	302	265	278	284	295	345	358	56	358	22	29	23	24	25	37	41	48	52	45	27	10.6
16-Feb	31	53	44	32	57	143	82	85	95	65	78	77	71	67	75	64	58	65	75	65	69	59	66	60	65.8
17-Feb	59	48	43	48	43	43	45	35	38	40	44	37	39	40	23	27	28	20	26	26	20	19	18	15	33.2
18-Feb	12	17	16	14	10	9	3	358	359	2	11	19	16	356	2	14	30	330	328	316	288	293	251	253	3.7
19-Feb	181	152	142	164	122	131	177	193	226	244	262	240	242	242	247	246	245	244	229	212	203	209	192	182	231.3
20-Feb	172	176	99	104	97	79	110	61	72	318	335	36	28	29	43	63	25	29	45	68	51	47	35	28	53.1
21-Feb	42	27	36	28	42	4	22	36	38	33	32	65	67	31	33	41	75	54	37	52	75	66	63	69	45.4
22-Feb	67	64	66	78	91	118	129	103	108	127	119	119	118	120	121	121	125	123	126	130	129	131	117	111	113.1
23-Feb	128	137	127	134	128	178	218	184	256	288	310	277	306	307	288	301	303	290	296	299	299	275	268	265	276.4
24-Feb	270	274	273	279	277	264	269	271	263	277	277	274	257	259	264	253	265	253	220	189	162	152	165	170	255.8
25-Feb	141	138	141	138	136	158	299	324	299	289	293	304	306	268	252	255	254	246	75	61	125	109	39	36	248.2
26-Feb	46	51	68	73	52	76	86	347	341	289	12	326	296	300	311	330	318	309	319	336	339	337	336	339	332.2
27-Feb	343	337	337	324	320	302	337	330	3	39	360	355	5	40	54	51	68	61	48	51	26	316	130	101	2.9
28-Feb	102	89	111	79	162	96	89	88	104	215	204	227	239	224	224	221	215	210	203	219	218	220	221	221	216.1
	342.5	244.2	10.1	257.0	27.0	265.2	283.9	321.8	307.7	308.9	305.4	299.3	291.8	293.0	291.7	299.6	307.5	307.2	332.8	355.9	274.0	258.5	288.2	335.4	
	Diurnal Average																								

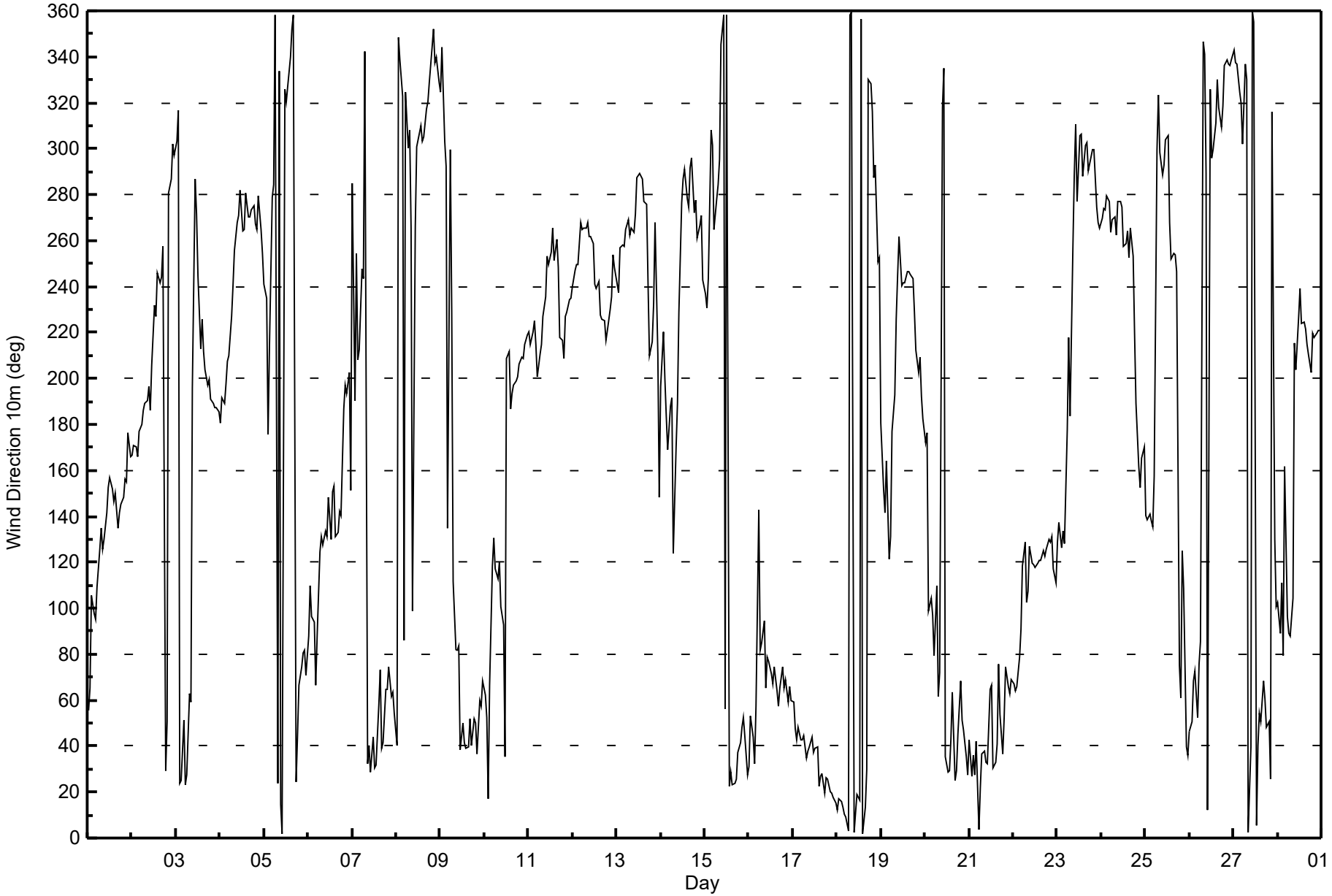
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Monday Creek - February 2026



Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 90 deg on Feb 27 22:00

Minimum Value: 7 deg on Feb 22 05:00

Percentiles: P_1 = 8 P_{10} = 11 Q_1 = 13 Median = 16 Q_3 = 22 P_{90} = 37 P_{99} = 73

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	13	15	24	8	11	19	20	17	15	17	15	20	16	18	14	16	12	12	12	13	15	16	20	17	24
2-Feb	18	17	17	17	18	17	18	18	19	15	17	21	19	13	16	14	13	16	90	85	33	27	17	18	90
3-Feb	19	23	17	17	26	24	20	24	39	80	18	26	30	20	21	21	20	18	17	19	21	19	19	19	80
4-Feb	20	24	20	23	17	25	22	18	15	11	11	10	12	20	15	12	11	9	8	10	14	11	12	15	25
5-Feb	12	16	32	23	35	16	41	12	21	29	22	34	19	16	19	18	18	18	26	12	10	17	14	12	41
6-Feb	14	26	11	14	18	10	19	18	15	17	17	18	29	25	20	12	10	11	17	18	17	16	19	69	69
7-Feb	77	15	45	21	27	17	25	49	13	18	11	19	18	24	32	12	18	14	13	15	20	13	15	11	77
8-Feb	26	18	14	72	53	61	37	19	53	28	70	13	14	16	16	15	17	17	16	17	16	15	14	14	72
9-Feb	15	29	31	51	75	67	32	28	9	11	19	18	17	16	14	12	16	10	15	12	17	14	12	13	75
10-Feb	19	19	44	37	21	12	19	27	22	27	20	27	67	14	17	19	18	14	15	15	15	14	12	16	67
11-Feb	17	17	21	15	13	13	16	12	14	14	17	14	17	14	17	16	18	18	10	15	15	13	13	12	21
12-Feb	14	12	12	13	10	12	10	10	12	12	13	18	12	15	15	15	13	14	15	13	14	13	15	14	18
13-Feb	13	14	15	15	11	11	10	10	10	12	15	14	13	13	13	13	12	24	21	9	34	47	33	37	47
14-Feb	35	16	17	15	19	21	56	37	71	37	23	25	14	17	21	19	12	11	11	18	9	9	10	18	71
15-Feb	35	12	30	35	34	54	30	10	15	26	26	46	40	19	14	11	10	14	16	12	12	15	10	14	54
16-Feb	11	22	59	46	41	44	48	37	29	37	9	14	18	13	14	12	11	9	10	9	11	11	10	11	59
17-Feb	13	12	11	11	11	12	12	10	10	11	12	12	12	15	12	15	16	13	11	12	13	14	14	15	16
18-Feb	16	13	16	16	19	18	19	18	18	19	17	18	22	25	25	18	10	25	15	21	9	14	22	30	30
19-Feb	30	19	35	14	53	27	23	18	23	17	23	23	15	16	16	15	13	11	9	13	9	11	11	10	53
20-Feb	12	14	30	33	63	32	39	37	56	43	74	20	16	12	19	18	11	17	18	18	38	38	37	11	74
21-Feb	12	17	13	18	26	19	15	9	12	12	16	23	30	20	16	18	11	19	10	18	10	13	12	12	30
22-Feb	10	10	8	9	7	14	12	12	14	14	14	17	16	16	14	14	14	13	13	14	13	13	15	13	17
23-Feb	16	12	13	12	9	41	26	16	39	17	33	38	39	23	22	19	18	11	11	16	20	10	8	8	41
24-Feb	8	7	8	9	11	10	8	13	11	14	22	23	23	21	18	17	18	16	15	18	16	14	15	18	23
25-Feb	13	11	12	23	12	23	58	19	28	23	14	22	59	24	16	17	12	21	45	48	41	36	37	12	59
26-Feb	17	57	27	16	19	18	40	18	24	39	64	60	18	13	16	18	20	16	16	18	15	15	14	15	64
27-Feb	17	13	15	19	18	14	32	21	27	27	48	34	34	61	32	27	24	14	7	16	29	90	68	39	90
28-Feb	48	20	53	61	56	57	23	23	34	59	25	22	19	19	18	14	16	15	14	16	14	13	15	13	61
	77	57	59	72	75	67	58	49	71	80	74	60	67	61	32	27	24	25	90	85	41	90	68	69	
	Diurnal Maximum																								

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS501
LEISMER
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - LEISMER (AMS501)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	640	32	32	100	29.2	0	4.6	0
H2S (ppb) Average	639	33	33	100	0.5	0	0.2	0
NO2 (ppb) Average	639	33	33	100	19.2	0	6.1	-
NO (ppb) Average	639	33	33	100	13.8	-	3.8	-
NOX (ppb) Average	639	33	33	100	27.1	-	7.7	-
Temperature 2 m (C) Average	672	0	0	100	8.2	-	3.2	-
Relative Humidity (%) Average	672	0	0	100	99	-	95.5	-
Wind Speed 10 m (km/h) Average	656	0	16	97.62	31	-	18	-
Wind Direction 10 m (deg) Average	656	0	16	97.62	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - LEISMER (AMS501)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	640	0.79	2.4	-	0	0	0.1	0.2	0.6	1.3	29.2
H2S (ppb) Average	639	0.09	0.1	-	0	0	0	0.1	0.1	0.2	0.5
NO2 (ppb) Average	639	2.39	2.4	-	0	0.5	0.9	1.7	3	5	19.2
NO (ppb) Average	639	0.95	1.8	-	0	0	0	0.2	1	2.9	13.8
NOX (ppb) Average	639	3.34	3.6	-	0	0.6	1.1	2.1	4.2	7.5	27.1
Temperature 2 m (C) Average	672	-11.88	9.9	-	-35.1	-26.1	-19.8	-10.1	-4.4	0.2	8.2
Relative Humidity (%) Average	672	77.85	14.2	-	31.1	57.9	69.9	79.2	90.6	94	99
Wind Speed 10 m (km/h) Average	656	8.6	6	-	0	3	5	7	11	16	31
Wind Direction 10 m (deg) Average	656	231.5	0	-	0	-	-	-	-	-	0

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - LEISMER (AMS501)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
Wind Speed, Wind Direction	08 Feb 2026 06:00	08 Feb 2026 11:00	6	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	20 Feb 2026 07:00	20 Feb 2026 07:00	1	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	23 Feb 2026 08:00	23 Feb 2026 09:00	2	Flat line in sensor output signal - Sensor frozen
Wind Speed, Wind Direction	27 Feb 2026 22:00	28 Feb 2026 04:00	7	Flat line in sensor output signal - Sensor frozen

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Leismer - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 29.2 ppb on Feb 5 08:00

Maximum Daily Average: 4.6 ppb on Feb 8

Minimum Value: 0.0 ppb on Feb 2 04:00

Minimum Daily Average: 0.0 ppb on Feb 11

Maximum Diurnal Average: 1.8 ppb at hour 15

Minimum Diurnal Average: 0.3 ppb at hour 3

Monthly Average: 0.79 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.2 Q_3 = 0.6 P_{90} = 1.3 P_{99} = 12.8

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.5	0.2	0.8	1.3	1.1	0.7	0.5	0.4	0.6	0.9	0.9	0.6	0.5	0.5	0.3	0.6	1.3	1.0	0.6	0.4	0.3	0.3	0.2	0.6	1.3
2-Feb	0.1	Z	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.5	0.4	0.1	0.5
3-Feb	0.1	0.0	Z	0.3	0.8	3.4	0.4	0.3	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.2	0.3	3.4
4-Feb	0.1	0.1	0.2	Z	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
5-Feb	0.1	0.1	0.0	0.0	Z	0.5	7.8	29.2	11.2	1.4	1.4	1.0	1.9	11.2	4.0	1.2	1.0	0.9	0.8	1.1	1.2	1.3	1.0	1.2	3.5	29.2
6-Feb	1.3	1.8	2.0	2.2	2.0	Z	1.2	0.8	0.6	0.5	0.4	0.6	0.7	0.7	0.8	0.8	0.6	0.6	0.3	0.2	0.3	0.2	0.2	0.3	0.8	2.2
7-Feb	Z	0.2	0.1	0.3	0.4	1.7	0.2	0.2	0.1	0.4	0.2	0.2	0.3	0.5	0.8	0.5	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	1.7
8-Feb	0.2	Z	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	5.6	18.6	10.3	8.2	14.2	12.1	10.0	11.8	2.9	0.8	2.4	4.1	0.4	3.2	4.6	18.6
9-Feb	0.4	0.2	Z	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.4
10-Feb	0.2	0.5	0.3	Z	0.2	0.1	0.1	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5
11-Feb	0.1	0.1	0.0	0.0	Z	0.0	0.1	0.1	0.1	0.2	C	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.2
12-Feb	0.1	0.1	0.2	0.1	0.1	Z	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.4	1.5	1.5	0.6	0.3	0.3	1.5
13-Feb	Z	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.1	0.6	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.6
14-Feb	0.1	Z	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.3	0.7	0.2	3.3
15-Feb	0.1	0.0	Z	0.1	0.0	0.0	0.0	2.1	2.1	0.3	0.6	0.5	0.6	0.3	0.4	0.4	1.5	1.7	1.4	0.9	0.7	0.4	0.5	2.5	0.7	2.5
16-Feb	1.7	1.4	1.2	Z	1.1	0.9	0.6	0.6	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.4	1.7
17-Feb	0.0	0.0	0.1	0.0	Z	0.5	0.4	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5
18-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	1.1	0.9	0.9	1.1	1.5	1.9	1.5	1.5	0.5	1.9
19-Feb	Z	1.2	0.7	0.5	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.2	1.2
20-Feb	0.3	Z	0.6	0.9	0.9	0.9	0.7	0.7	0.5	0.6	0.5	0.4	0.5	0.4	0.4	1.9	0.4	0.3	0.3	0.3	0.4	0.7	0.8	1.1	0.6	1.9
21-Feb	1.0	1.0	Z	0.5	0.9	0.7	0.6	0.5	0.7	0.9	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.4	1.0
22-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.4	0.6	0.7	0.6	0.2	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.2	0.7
23-Feb	0.0	0.1	0.0	0.0	Z	0.0	0.0	0.1	0.1	0.7	0.3	0.3	0.1	0.1	0.1	0.5	2.2	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.2	2.2
24-Feb	0.0	0.0	0.0	0.1	0.1	Z	0.2	0.2	0.4	0.5	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.3	0.2	0.2	0.2	0.2	0.5
25-Feb	Z	0.2	0.3	0.8	0.8	0.6	0.5	1.2	1.3	0.9	0.4	0.4	0.4	0.3	0.1	0.2	0.1	0.2	0.8	0.2	0.2	0.2	0.2	0.4	0.5	1.3
26-Feb	0.4	Z	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.0	8.9	19.0	25.4	15.5	4.6	13.3	0.7	3.3	4.7	3.5	2.5	0.9	4.5	25.4
27-Feb	3.1	4.2	Z	4.4	3.6	2.8	2.3	1.4	1.0	0.8	0.6	0.1	0.8	1.3	1.5	1.1	0.7	1.0	0.8	0.5	0.7	0.3	0.4	0.4	1.5	4.4
28-Feb	0.4	0.4	0.3	Z	0.6	1.3	2.0	1.4	0.6	0.5	0.3	0.3	0.6	0.4	0.4	0.3	0.1	0.9	1.1	1.5	1.0	0.6	0.6	0.7	0.7	2.0
	0.4	0.5	0.3	0.5	0.6	0.6	0.7	1.4	0.8	0.4	0.5	1.0	1.0	1.7	1.8	1.3	0.9	1.3	0.5	0.4	0.6	0.6	0.5	0.5	Diurnal Average	
	3.1	4.2	2.0	4.4	3.6	3.4	7.8	29.2	11.2	1.4	5.6	18.6	10.3	19.0	25.4	15.5	10.0	13.3	2.9	3.3	4.7	4.1	3.3	3.2	Diurnal Maximum	

Z - zerospan C - Calibration

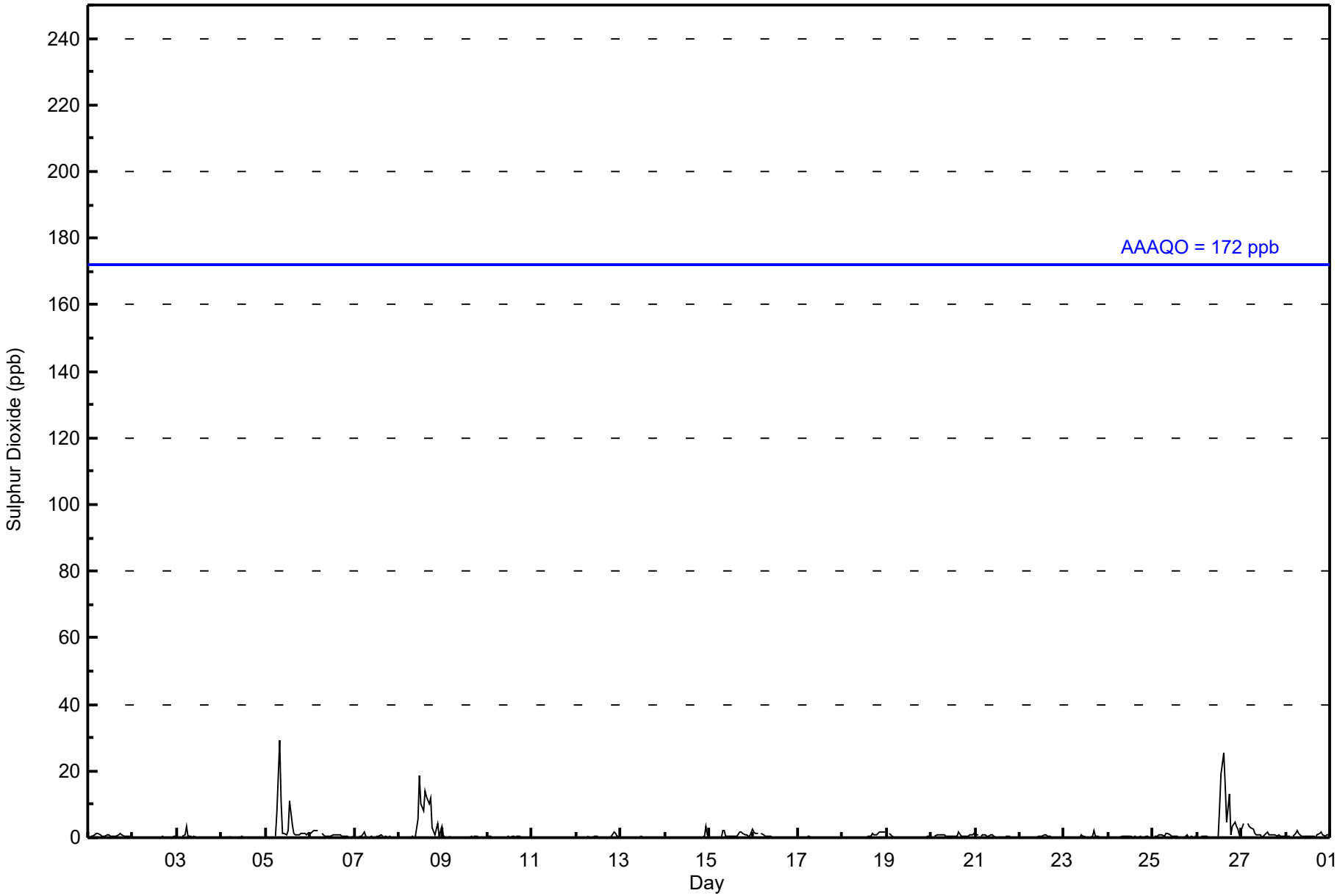
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Leismer - February 2026



Sulphur Dioxide (SO_2) - ppb

Leismer - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	629	98.28	98.28
11 - 20	9	1.41	99.69
21 - 60	2	0.31	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Leismer - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	25	21	28	21	12	77	59	34	28	42	35	26	52	80	16	58	614
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	9
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	25	21	28	21	12	77	59	34	28	42	35	26	52	80	22	63	625

Total Number of Valid Hours: 625

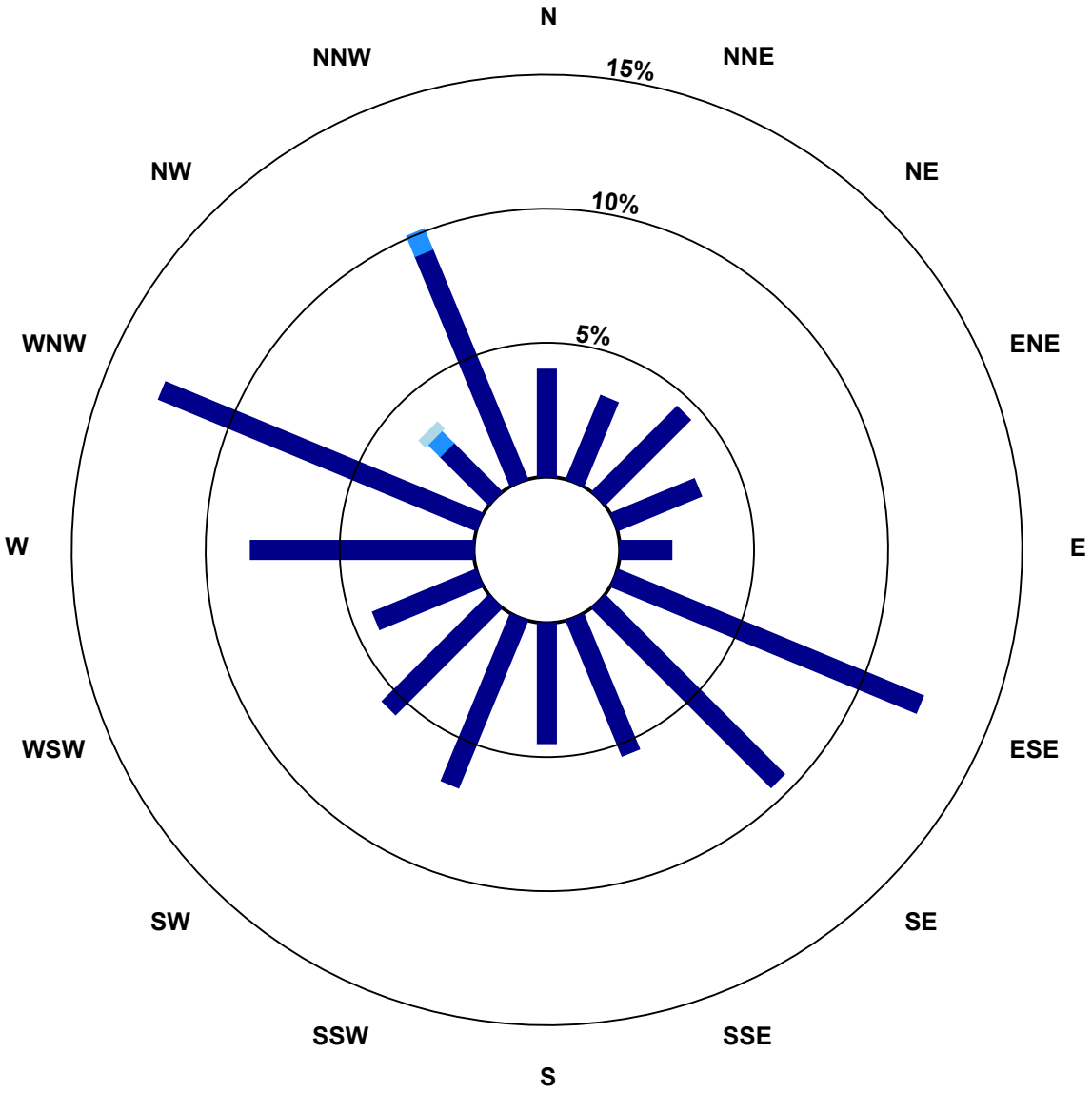
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Leismer



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

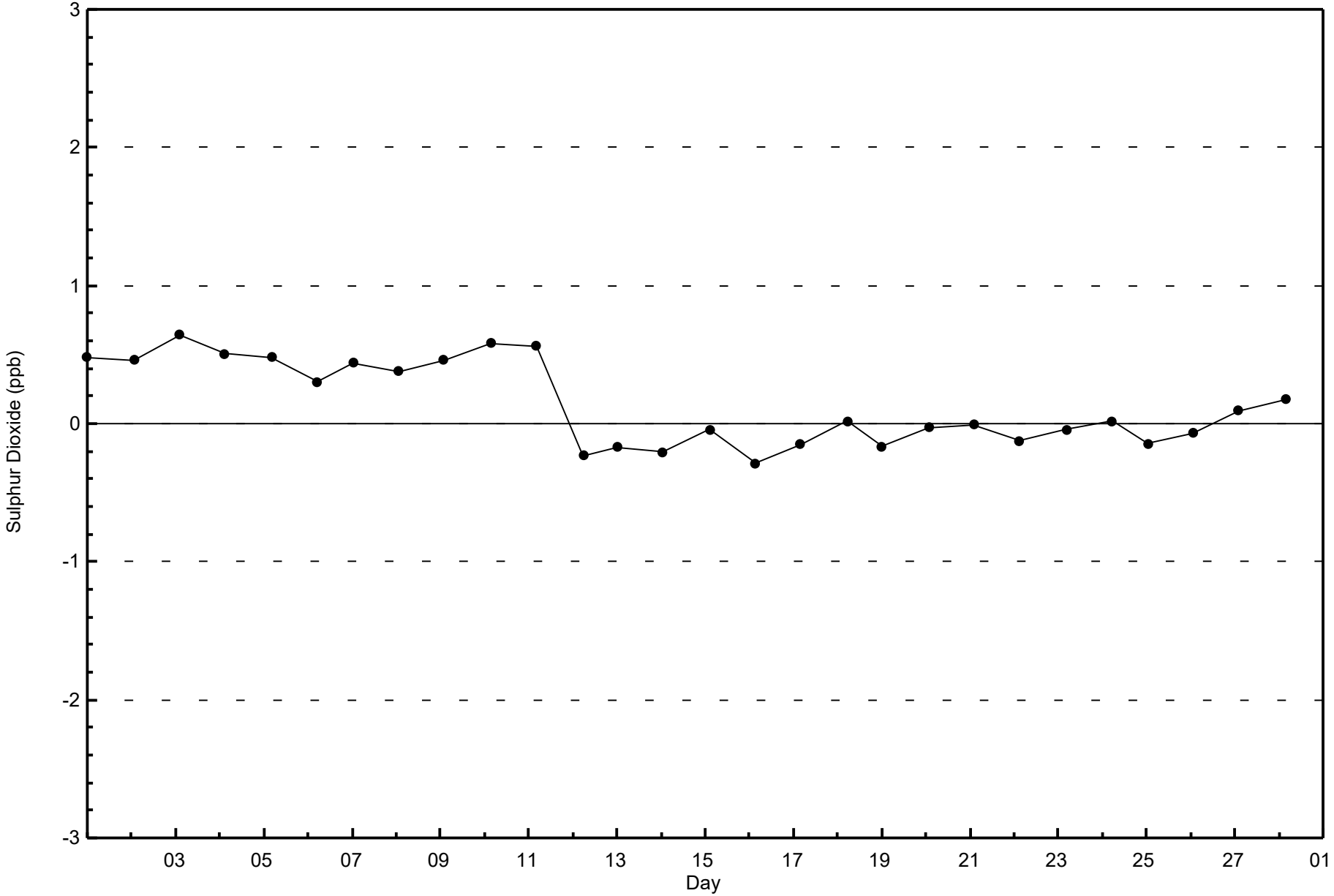
Total Number of Valid Hours: 625

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Leismer - February 2026

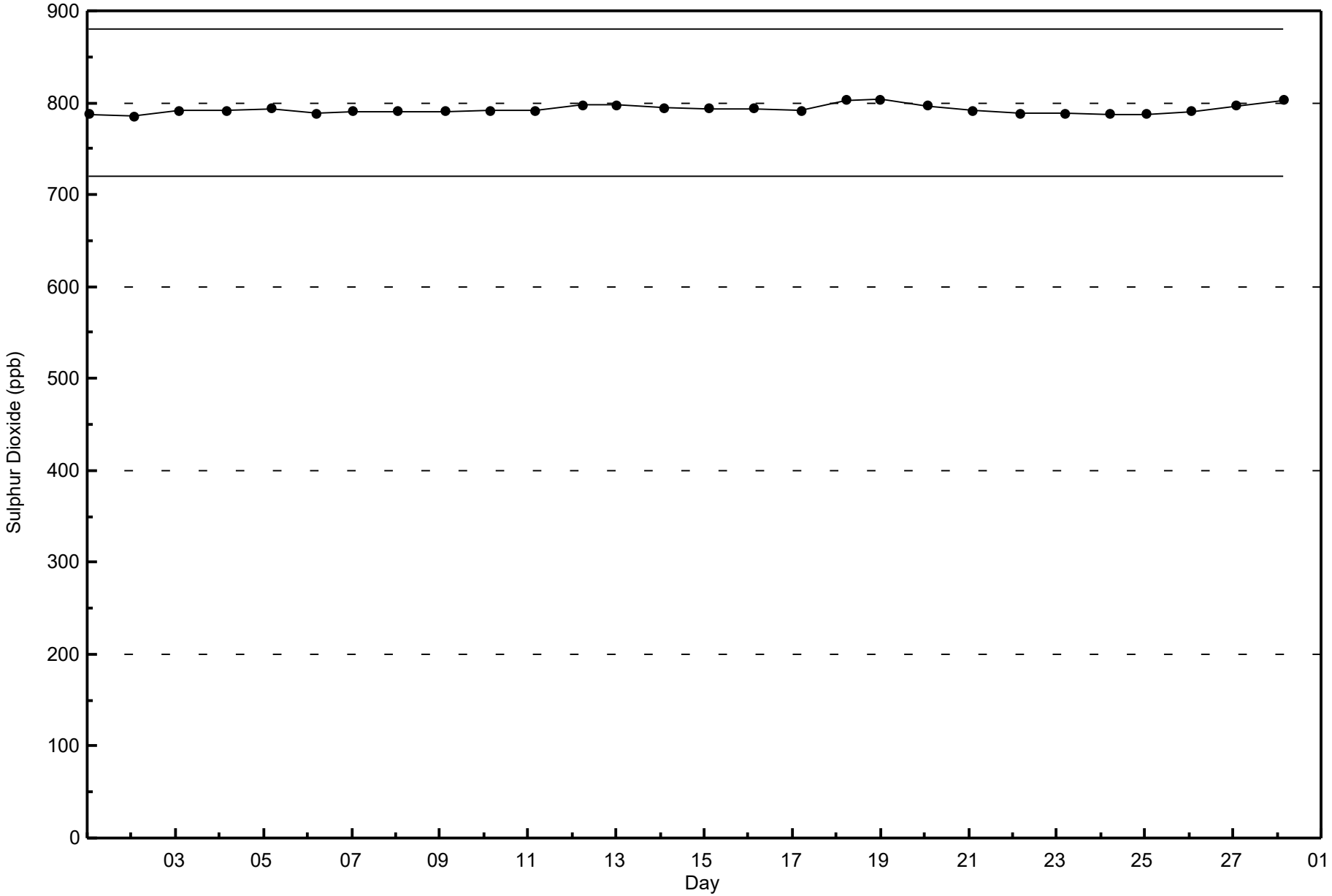


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Leismer - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Leismer - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 0.5 ppb on Feb 26 15:00

Maximum Daily Average: 0.2 ppb on Feb 8

Minimum Value: 0.0 ppb on Feb 5 02:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 0.1 ppb at hour 6

Minimum Diurnal Average: 0.1 ppb at hour 1

Monthly Average: 0.09 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.1 P_{90} = 0.2 P_{99} = 0.3

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	Z	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.2
2-Feb	0.0	0.0	Z	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
3-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
5-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2
6-Feb	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2
7-Feb	0.1	Z	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3
8-Feb	0.2	0.1	Z	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.4
9-Feb	0.2	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10-Feb	0.2	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	C	C	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
11-Feb	0.1	0.0	0.0	0.1	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1
12-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
13-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
14-Feb	0.0	0.0	Z	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1
15-Feb	0.0	0.0	0.0	Z	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2
16-Feb	0.1	0.1	0.1	0.1	Z	0.2	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	0.0	0.0	0.0	0.0	0.1	0.2
17-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2
19-Feb	0.1	Z	0.2	0.1	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	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.2
20-Feb	0.0	0.0	Z	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.2
21-Feb	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.2
22-Feb	0.0	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
23-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1
24-Feb	Z	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1
25-Feb	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
26-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.3	0.5	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
27-Feb	0.0	0.1	0.1	Z	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.2
28-Feb	0.1	0.1	0.1	0.2	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Diurnal Average	
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.5	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	Diurnal Maximum	

Z - zerospan C - Calibration

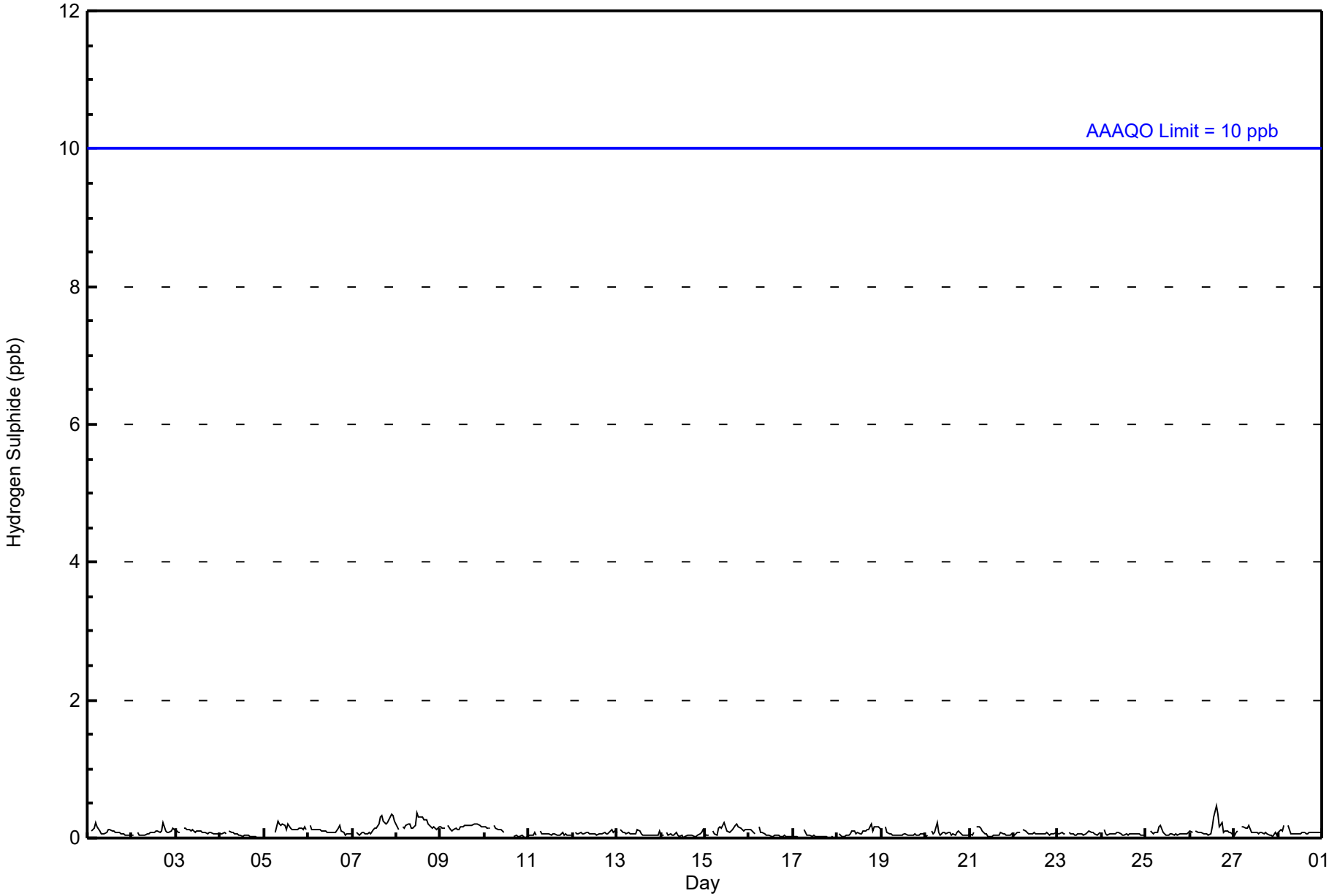
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Leismer - February 2026



Hydrogen Sulphide (H_2S) - ppb

Leismer - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	639	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Leismer - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	26	21	27	21	13	77	59	31	26	44	34	26	54	79	22	63	623
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	26	21	27	21	13	77	59	31	26	44	34	26	54	79	22	63	623

Total Number of Valid Hours: 623

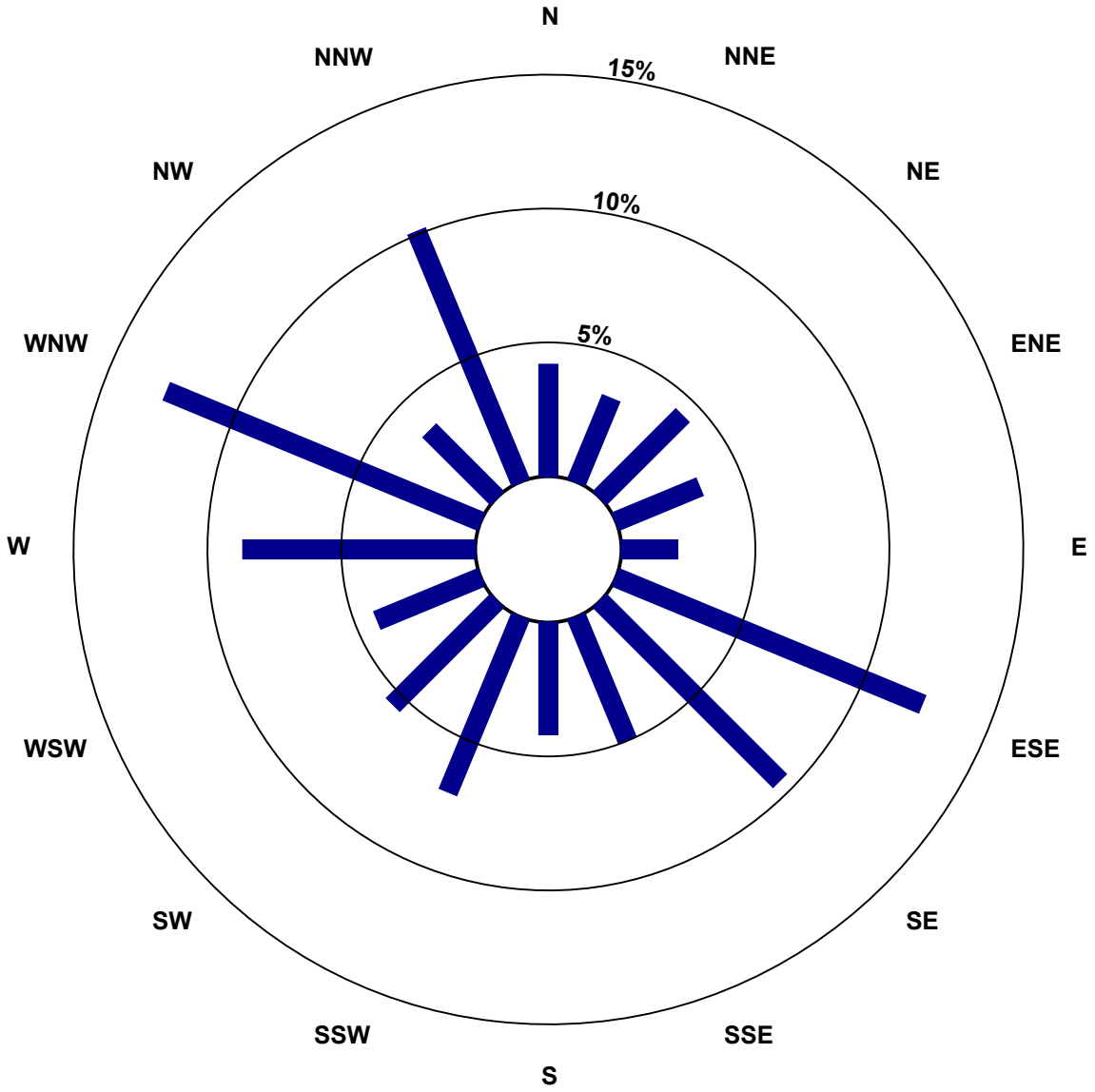
Total Number of Hours: 672

Wood Buffalo Environmental Association

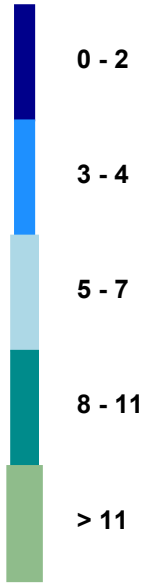
Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Leismer



Classes (ppb)



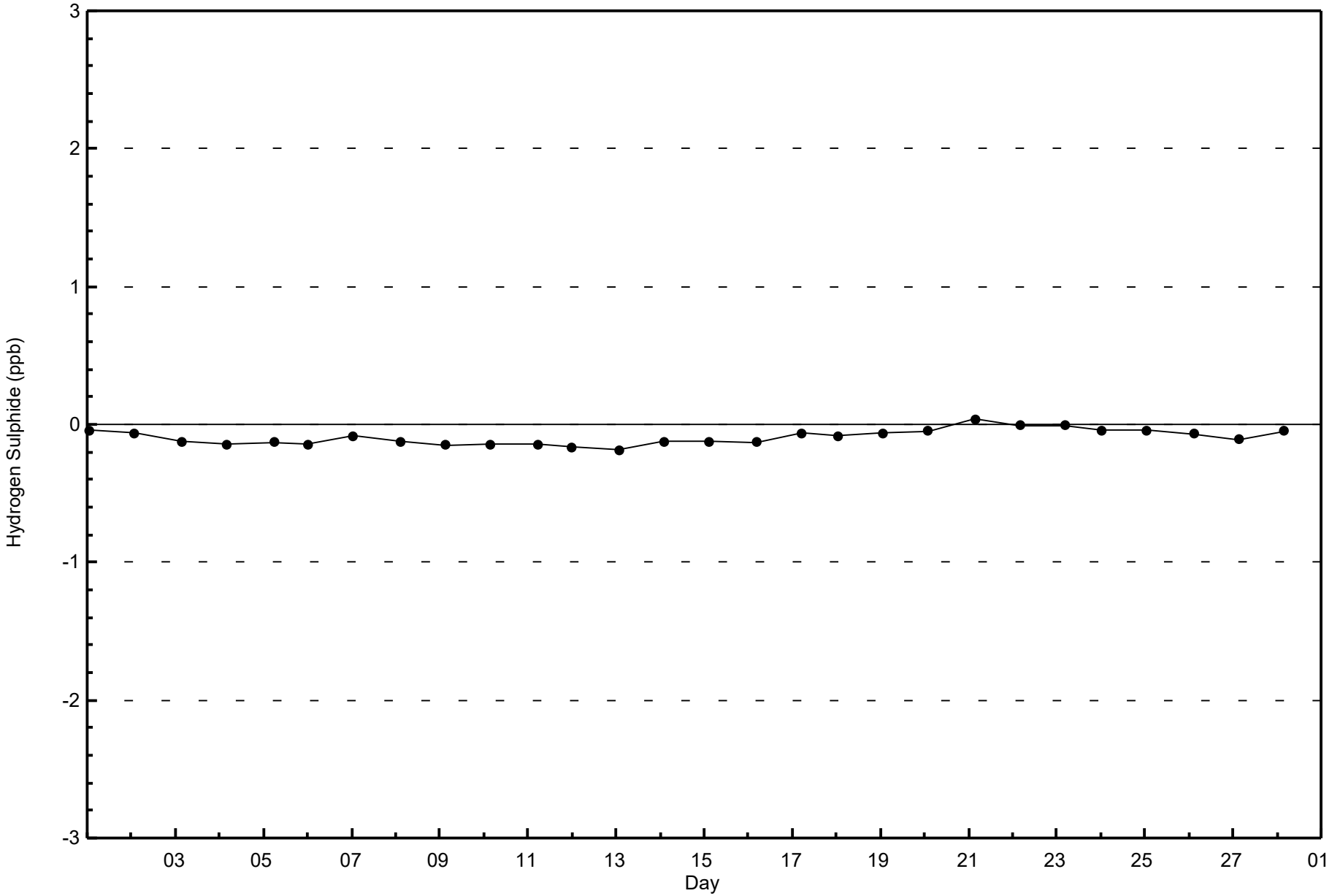
Total Number of Valid Hours: 623

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Leismer - February 2026

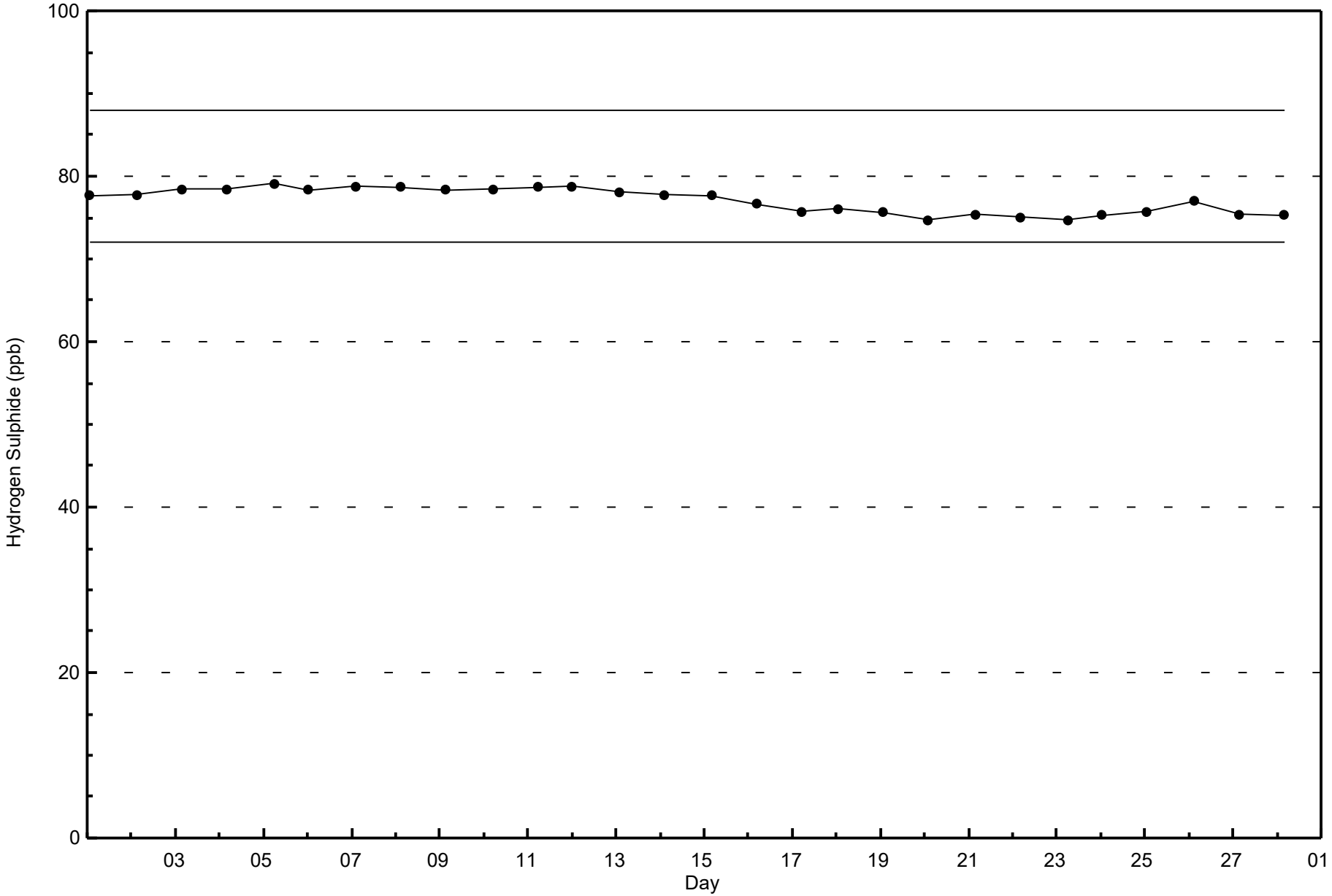


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Leismer - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Leismer - February 2026

Maximum Value: 13.8 ppb on Feb 18 19:00

Maximum Daily Average: 3.8 ppb on Feb 18

Minimum Value: 0.0 ppb on Feb 3 18:00

Minimum Daily Average: 0.0 ppb on Feb 12

Maximum Diurnal Average: 2.0 ppb at hour 9

Minimum Diurnal Average: 0.1 ppb at hour 1

Monthly Average: 0.95 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.2 Q_3 = 1.0 P_{90} = 2.9 P_{99} = 8.2

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.6	0.6	0.3	0.5	0.6	0.5	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6
2-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.4	0.3	0.8	4.8	1.1	0.0	0.0	0.5	0.1	0.1	0.4	4.8
3-Feb	Z	0.0	0.0	0.1	1.9	2.0	0.5	0.6	0.7	1.6	0.5	0.3	0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.0
4-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.5	0.5	0.6	0.7	1.6	4.3	2.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.3
5-Feb	0.0	0.0	Z	0.0	0.0	0.1	2.6	11.9	5.3	1.0	1.4	1.5	1.4	5.8	2.6	1.4	1.8	1.0	1.1	0.3	0.1	0.0	0.0	0.0	1.7	11.9
6-Feb	0.1	0.0	0.1	Z	0.0	0.2	0.1	0.3	0.2	0.2	0.3	0.8	1.1	1.4	0.9	0.7	0.5	0.6	1.9	1.5	0.0	0.6	0.0	0.0	0.5	1.9
7-Feb	0.0	0.0	0.0	0.0	Z	1.3	1.3	0.7	1.4	1.1	0.6	2.6	2.7	1.6	1.5	2.4	1.4	1.0	0.2	0.4	0.0	0.2	0.2	0.0	0.9	2.7
8-Feb	0.0	0.1	0.0	0.0	0.2	Z	0.4	0.0	0.1	0.3	3.8	13.4	7.2	6.7	8.0	6.1	5.2	5.7	1.5	1.0	1.0	1.5	0.1	1.5	2.8	13.4
9-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.1	1.9	2.2	1.0	0.4	0.7	1.0	1.0	1.4	0.6	0.4	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.5	2.2
10-Feb	0.0	Z	0.0	0.1	0.1	0.9	0.2	0.1	0.2	0.3	0.6	0.9	1.3	0.9	1.0	0.9	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.4	1.3
11-Feb	0.0	0.0	Z	0.0	0.0	0.4	0.2	0.3	0.1	0.7	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	1.4	0.0	0.0	0.0	0.0	0.0	0.2	1.4
12-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.1	0.3	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	0.3
13-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.9	5.8	2.3	0.4	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.4	5.8
14-Feb	0.0	0.0	0.0	0.3	0.1	Z	0.7	0.5	1.1	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.1	0.2	1.1
15-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.5	5.8	7.6	4.2	5.0	6.1	3.6	0.4	2.4	3.2	2.6	0.7	1.2	0.3	0.0	0.0	0.0	0.0	1.9	7.6
16-Feb	0.0	Z	0.0	0.0	0.1	1.3	1.0	0.4	1.1	0.8	0.4	0.5	0.6	0.2	0.3	1.0	0.4	1.1	0.9	0.1	0.0	0.0	0.4	0.0	0.5	1.3
17-Feb	0.0	0.0	Z	0.0	0.0	0.7	0.8	0.8	0.4	1.1	0.8	1.0	0.6	1.0	2.3	2.3	1.0	1.6	1.0	0.1	0.2	0.0	0.0	0.0	0.7	2.3
18-Feb	0.0	0.0	0.0	Z	0.4	1.2	1.3	3.8	8.4	8.4	4.3	4.4	5.7	3.7	3.9	3.7	6.7	5.5	13.8	4.4	3.9	3.4	0.4	0.7	3.8	13.8
19-Feb	0.1	0.1	0.0	0.0	Z	0.0	0.0	0.1	0.5	0.6	0.5	0.3	1.2	1.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3
20-Feb	0.0	0.0	0.0	0.0	0.8	Z	7.9	0.8	0.7	2.7	2.6	2.6	2.6	2.8	1.2	1.7	0.7	1.3	3.2	0.0	0.4	0.0	0.0	0.0	1.4	7.9
21-Feb	Z	0.0	0.1	1.3	1.8	0.8	3.1	0.8	1.1	2.1	1.2	0.4	0.9	1.3	0.8	0.5	0.2	0.3	1.2	0.1	0.3	0.0	0.0	0.0	0.8	3.1
22-Feb	0.1	Z	2.9	3.0	3.7	3.2	3.5	2.7	1.9	0.1	0.3	0.7	0.5	0.6	0.4	0.3	0.4	0.8	0.4	0.0	0.0	0.0	1.8	5.4	1.4	5.4
23-Feb	2.5	2.9	Z	3.2	3.1	1.5	0.0	1.1	2.1	0.9	1.4	0.3	0.2	0.1	0.2	0.7	3.4	1.5	1.3	0.1	0.0	0.0	0.0	0.0	1.1	3.4
24-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.3	0.8	0.8	0.6	0.5	0.5	0.3	0.2	0.1	0.0	0.5	0.0	0.1	0.0	0.0	0.0	0.2	0.8
25-Feb	0.0	0.1	0.0	0.0	Z	0.1	0.8	6.0	8.9	2.1	0.4	0.3	0.2	0.9	0.3	0.2	0.3	0.0	0.4	0.0	0.0	0.1	0.0	0.1	0.9	8.9
26-Feb	0.0	0.0	0.0	0.0	0.2	Z	0.1	0.1	0.3	0.1	0.2	C	C	C	C	C	4.0	6.5	1.2	0.1	0.2	0.0	0.0	0.1	0.7	6.5
27-Feb	Z	0.2	0.2	0.4	3.3	7.7	7.1	5.3	10.8	2.9	2.9	3.3	4.1	4.6	4.5	3.7	3.0	1.7	3.5	0.2	0.0	0.0	2.1	0.0	3.1	10.8
28-Feb	0.0	Z	2.0	1.1	2.9	0.6	1.8	0.7	0.8	1.0	0.6	0.5	0.5	0.4	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.9
	0.1	0.2	0.2	0.4	0.8	1.0	1.2	1.6	2.0	1.3	1.1	1.8	1.5	1.5	1.4	1.2	1.2	1.3	1.3	0.3	0.2	0.2	0.2	0.3	Diurnal Average	
	2.5	2.9	2.9	3.2	3.7	7.7	7.9	11.9	10.8	8.4	5.0	13.4	7.2	6.7	8.0	6.1	6.7	6.5	13.8	4.4	3.9	3.4	2.1	5.4	Diurnal Maximum	

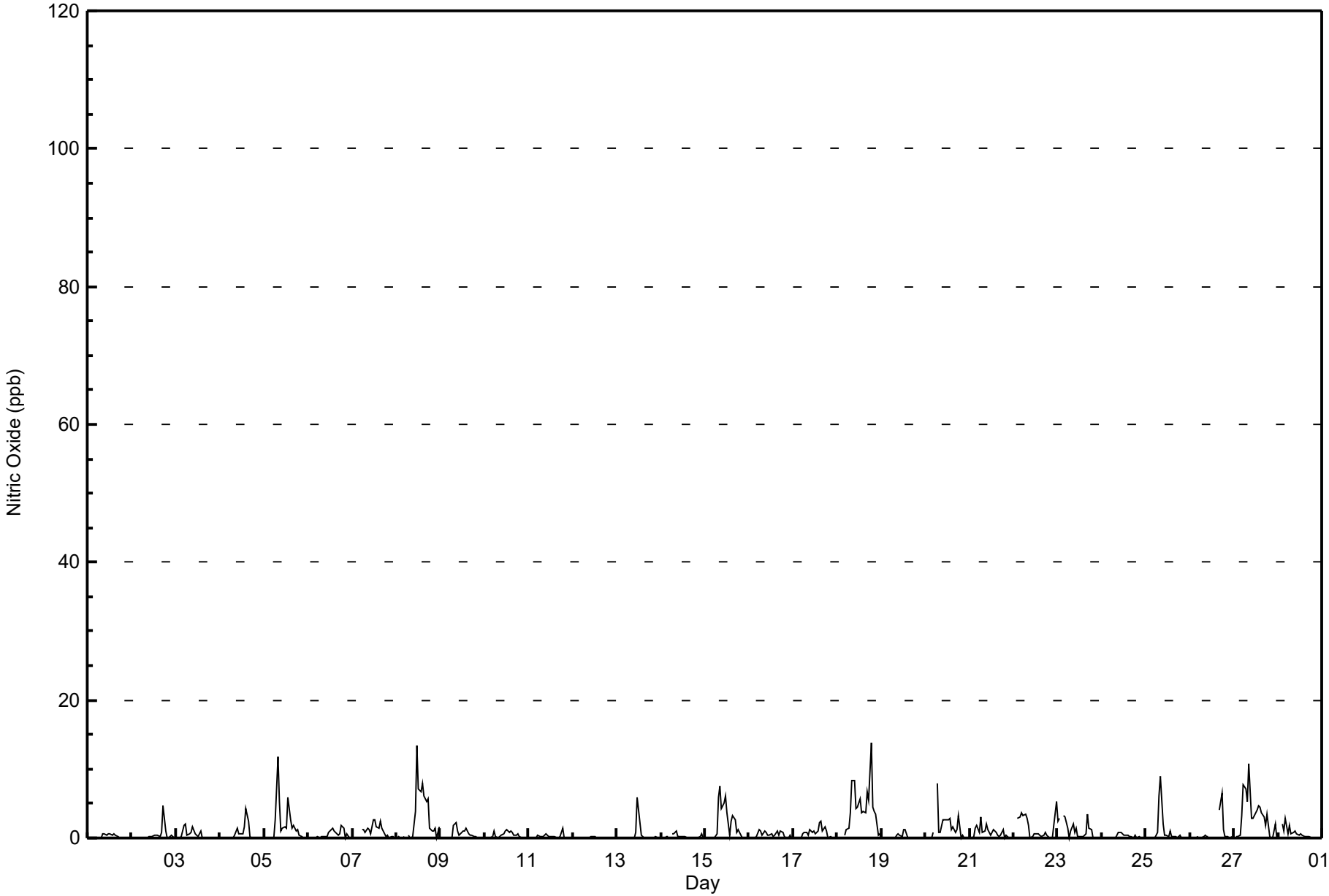
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Leismer - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	639	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Leismer - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	24	22	29	19	13	77	59	34	30	41	37	27	54	78	19	62	625
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	24	22	29	19	13	77	59	34	30	41	37	27	54	78	19	62	625

Total Number of Valid Hours: 625

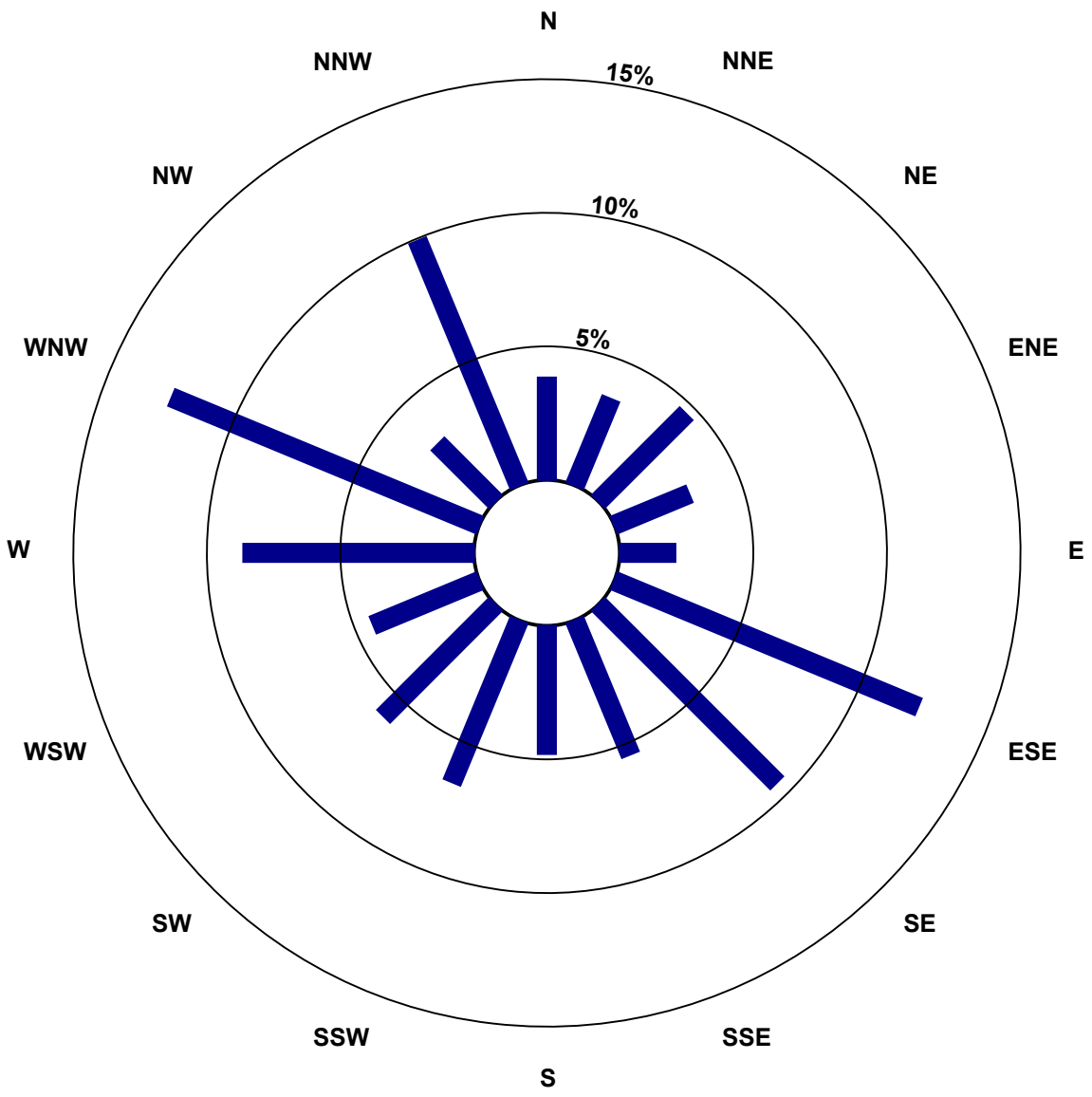
Total Number of Hours: 672

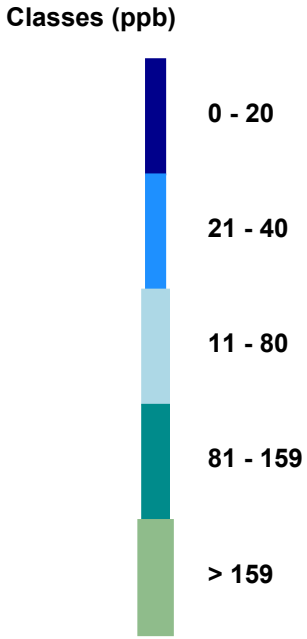
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Leismer





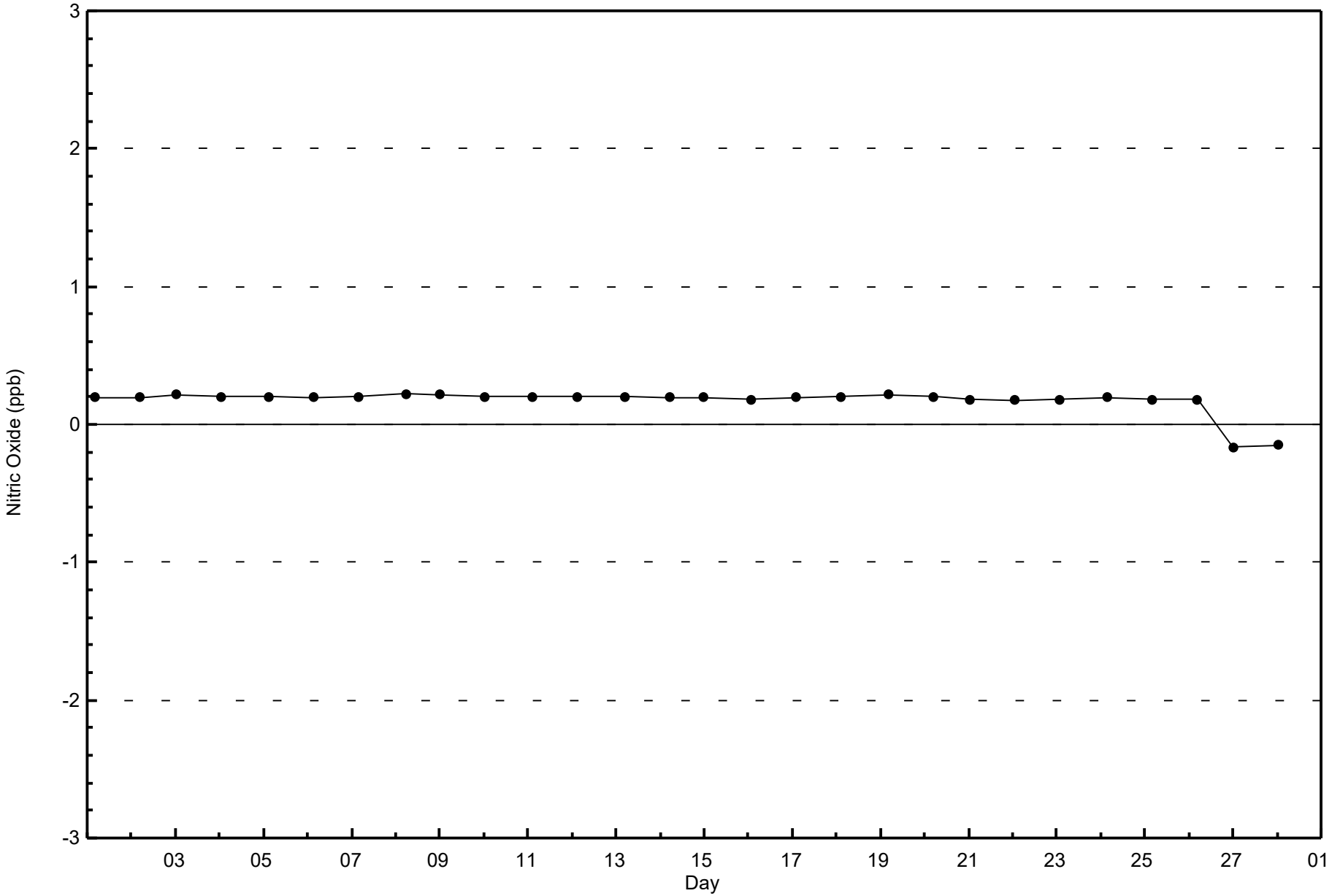
Total Number of Valid Hours: 625

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Leismer - February 2026

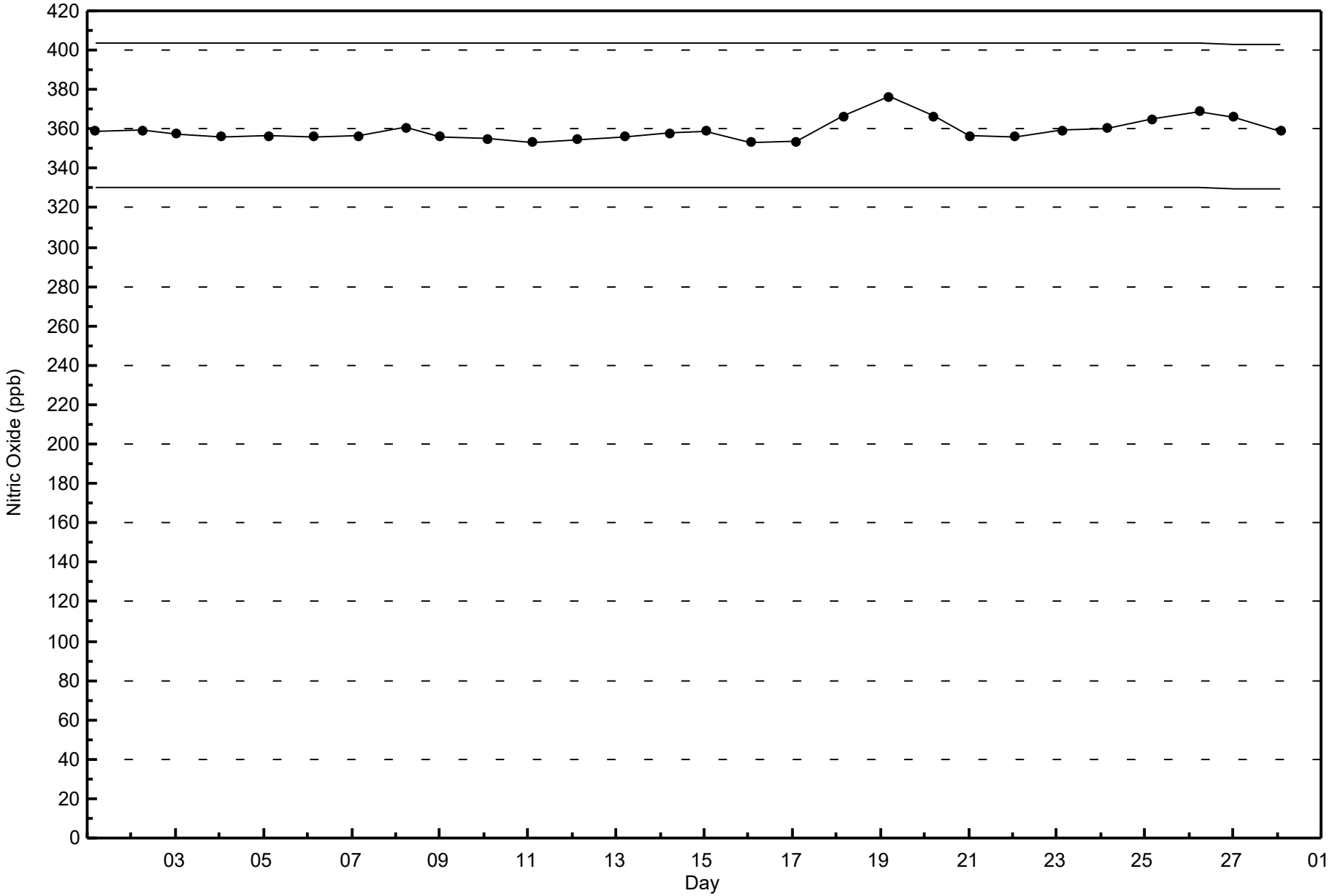


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Leismer - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Leismer - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 19.2 ppb on Feb 20 07:00

Maximum Daily Average: 6.1 ppb on Feb 7

Minimum Value: 0.0 ppb on Feb 9 06:00

Minimum Daily Average: 0.8 ppb on Feb 17

Maximum Diurnal Average: 3.7 ppb at hour 8

Minimum Diurnal Average: 1.7 ppb at hour 2

Monthly Average: 2.39 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.5 Q_1 = 0.9 Median = 1.7 Q_3 = 3.0 P_{90} = 5.0 P_{99} = 11.5

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.3	0.6	0.4	2.9	Z	3.4	2.6	1.7	2.5	2.2	2.2	2.5	2.2	2.2	2.6	2.5	3.0	3.0	2.7	3.0	2.1	1.6	1.3	1.2	2.1	3.4
2-Feb	1.1	1.0	0.8	0.8	0.8	Z	1.0	0.9	1.1	1.4	1.3	1.4	1.5	1.7	2.0	2.0	3.6	13.7	4.3	2.0	2.4	3.0	2.5	1.6	2.3	13.7
3-Feb	Z	1.1	0.8	1.1	2.0	2.0	1.3	1.9	1.6	2.8	1.1	0.9	0.5	0.8	0.5	0.4	0.3	0.3	0.3	0.5	0.6	0.7	1.3	1.7	1.1	2.8
4-Feb	1.6	Z	1.6	1.7	1.9	2.2	2.3	2.0	2.3	2.9	1.5	1.3	1.5	2.1	3.0	3.1	1.6	1.7	0.9	1.0	1.0	1.0	0.7	0.7	1.7	3.1
5-Feb	0.8	1.0	Z	1.6	1.2	1.2	3.7	9.5	5.5	2.7	2.8	2.3	2.4	5.2	3.1	2.5	2.3	1.7	2.7	1.9	2.9	2.4	2.3	2.3	2.8	9.5
6-Feb	2.5	2.2	2.5	Z	3.8	3.3	3.0	2.3	1.7	1.6	0.9	1.2	1.4	2.0	1.7	2.1	7.1	10.5	5.2	5.4	1.6	1.4	1.5	2.2	2.9	10.5
7-Feb	2.8	2.4	3.9	2.9	Z	4.6	4.8	2.6	2.4	1.7	1.4	3.7	4.1	3.0	5.2	12.6	12.9	10.0	9.1	11.5	11.2	10.7	9.6	6.6	6.1	12.9
8-Feb	3.7	2.1	1.5	1.6	2.3	Z	3.1	3.0	2.1	2.0	3.7	6.9	4.9	5.2	5.3	4.9	5.0	5.1	2.3	0.9	1.4	1.8	0.4	1.8	3.1	6.9
9-Feb	Z	0.6	0.3	0.1	0.1	0.0	0.3	2.9	2.4	1.2	0.6	0.7	1.0	1.4	2.4	2.0	2.4	3.5	2.9	2.1	1.4	1.2	1.1	1.0	1.4	3.5
10-Feb	1.1	Z	1.4	1.0	1.1	2.1	2.7	0.9	1.3	0.8	1.0	1.4	2.0	2.9	3.2	3.3	4.6	7.3	6.9	5.2	3.2	2.6	2.6	2.8	2.7	7.3
11-Feb	2.9	2.8	Z	2.9	2.3	4.0	2.7	2.3	1.6	1.8	1.2	0.6	0.7	0.6	0.6	0.6	0.7	1.1	4.6	1.1	0.9	0.9	0.8	0.7	1.7	4.6
12-Feb	0.7	0.8	0.7	Z	0.8	0.7	0.6	0.6	1.1	0.7	0.8	0.7	0.6	0.5	0.6	0.7	0.6	0.8	0.9	1.1	3.2	4.9	3.4	2.0	1.2	4.9
13-Feb	0.5	0.3	0.3	0.2	Z	0.5	0.5	0.7	0.7	0.6	1.9	3.4	3.1	0.8	0.4	0.4	0.3	1.0	3.3	1.0	0.6	1.1	0.9	1.3	1.0	3.4
14-Feb	1.2	0.8	0.9	1.6	1.9	Z	5.4	4.0	7.8	1.5	0.9	0.8	0.5	0.3	0.2	0.2	0.3	0.4	0.8	0.6	1.7	0.9	2.4	0.9	1.6	7.8
15-Feb	Z	1.0	0.7	1.0	0.9	0.6	1.6	10.0	11.2	8.1	8.5	6.0	2.8	0.7	2.9	3.2	5.1	3.5	4.4	4.4	2.5	2.3	1.8	4.5	3.8	11.2
16-Feb	4.9	Z	3.2	2.0	2.5	2.6	4.8	3.8	1.9	1.1	0.4	0.3	0.5	0.1	0.2	0.5	0.1	0.4	0.3	0.1	0.0	0.0	0.0	0.0	1.3	4.9
17-Feb	0.0	0.0	Z	0.1	0.4	0.9	2.2	2.1	1.7	0.9	1.1	1.0	1.5	0.7	1.3	0.7	0.8	0.2	1.0	0.8	1.0	0.3	0.3	0.3	0.8	2.2
18-Feb	0.3	0.4	0.7	Z	2.0	2.0	3.1	3.1	3.8	2.2	1.6	1.4	1.8	2.3	1.1	2.0	3.4	3.7	6.2	4.3	6.6	6.5	5.6	5.7	3.0	6.6
19-Feb	5.0	4.8	4.0	3.0	Z	2.0	1.7	1.7	1.5	0.9	0.4	0.4	0.6	1.5	0.3	0.2	0.4	0.3	0.9	1.1	1.3	1.3	1.4	1.7	1.6	5.0
20-Feb	1.6	2.9	4.7	4.6	5.3	Z	19.2	7.2	3.8	5.0	4.2	4.0	4.3	4.4	2.9	4.2	3.7	6.7	7.8	4.4	3.8	2.7	2.8	2.4	4.9	19.2
21-Feb	Z	3.0	3.0	4.1	5.3	5.8	4.9	2.9	2.4	1.7	1.1	0.5	1.2	0.5	0.8	0.7	0.8	1.8	2.8	1.9	1.5	0.3	0.2	0.3	2.1	5.8
22-Feb	0.1	Z	2.4	2.3	3.1	3.6	2.6	2.3	0.4	0.2	0.6	1.0	0.9	1.0	1.2	1.2	1.3	1.6	1.4	0.4	0.3	0.3	1.7	4.5	1.5	4.5
23-Feb	2.0	2.6	Z	3.7	4.1	3.1	0.4	4.8	4.8	1.5	1.2	0.8	0.7	0.6	0.7	1.6	5.2	4.4	3.0	1.8	1.2	1.2	1.2	1.6	2.3	5.2
24-Feb	1.3	1.3	1.2	Z	1.6	1.4	1.3	1.6	1.4	1.5	1.3	0.9	0.9	0.9	0.9	0.7	1.0	1.4	4.5	1.7	1.5	0.9	1.0	1.1	1.4	4.5
25-Feb	1.9	2.1	2.0	2.5	Z	4.5	5.6	10.7	9.9	3.2	1.4	1.0	0.9	1.6	1.0	1.1	1.5	1.1	3.1	1.8	1.1	2.5	1.0	1.3	2.7	10.7
26-Feb	1.2	1.0	1.0	1.0	1.2	Z	1.1	1.1	1.4	0.8	0.6	C	C	C	C	C	7.9	7.8	3.4	3.6	5.0	3.1	2.1	1.7	2.5	7.9
27-Feb	Z	3.4	3.6	4.0	5.7	8.1	8.2	12.8	11.5	3.0	2.3	2.7	2.1	2.9	4.3	2.8	2.3	3.8	2.6	2.1	1.7	1.6	9.0	4.9	4.6	12.8
28-Feb	2.8	Z	6.0	7.3	13.9	6.9	8.5	4.4	2.1	1.4	0.8	0.7	0.7	0.7	0.5	0.6	0.6	1.8	1.6	1.7	1.6	1.6	2.0	2.6	3.1	13.9
	1.8	1.7	2.0	2.3	2.8	2.8	3.5	3.7	3.3	2.0	1.7	1.8	1.7	1.7	1.8	2.1	2.8	3.5	3.2	2.4	2.3	2.1	2.2	2.1	Diurnal Average	
	5.0	4.8	6.0	7.3	13.9	8.1	19.2	12.8	11.5	8.1	8.5	6.9	4.9	5.2	5.3	12.6	12.9	13.7	9.1	11.5	11.2	10.7	9.6	6.6	Diurnal Maximum	

Z - zerospan C - Calibration

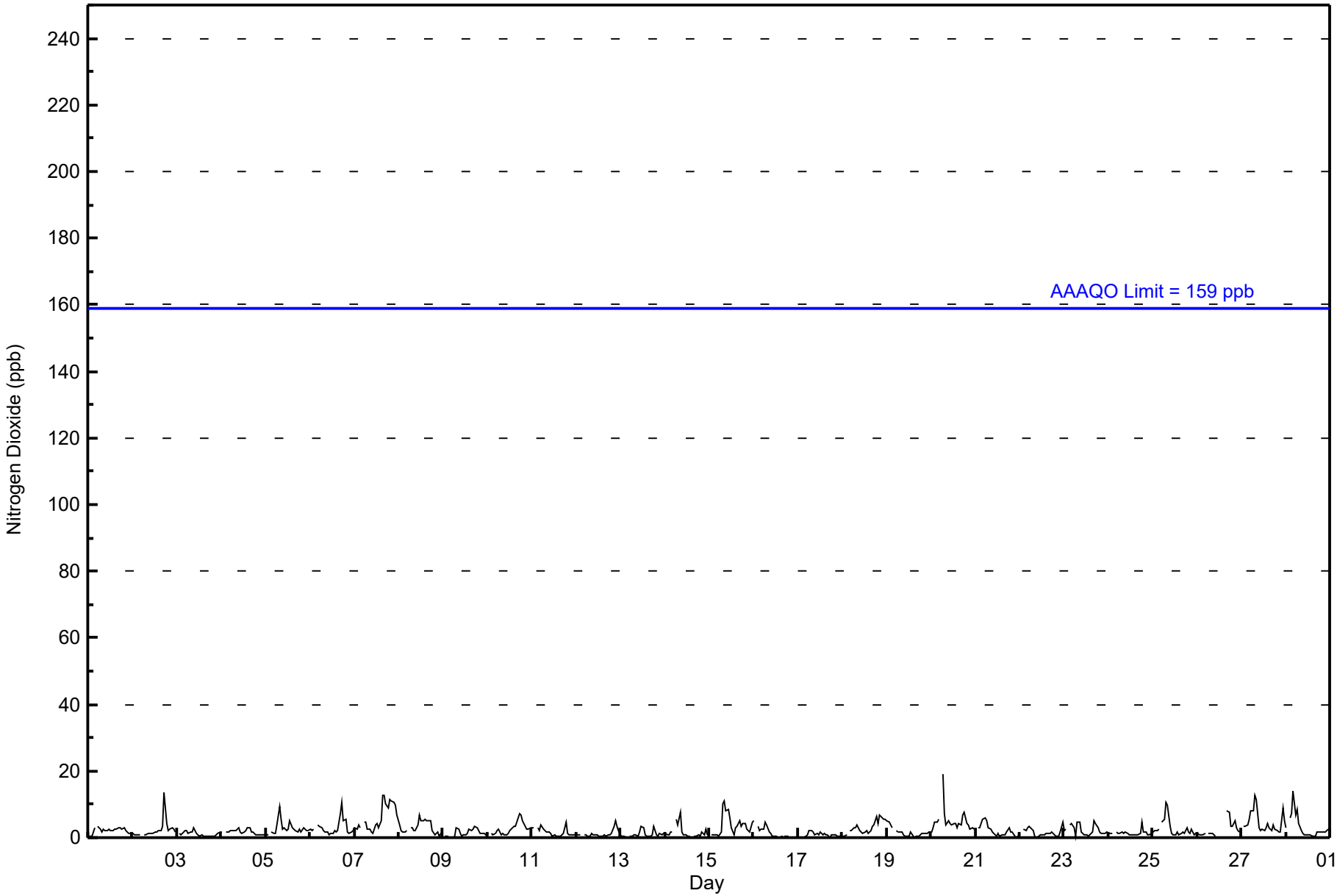
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Leismer - February 2026



Nitrogen Dioxide (NO_2) - ppb

Leismer - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	639	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Leismer - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	24	22	29	19	13	77	59	34	30	41	37	27	54	78	19	62	625
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	24	22	29	19	13	77	59	34	30	41	37	27	54	78	19	62	625

Total Number of Valid Hours: 625

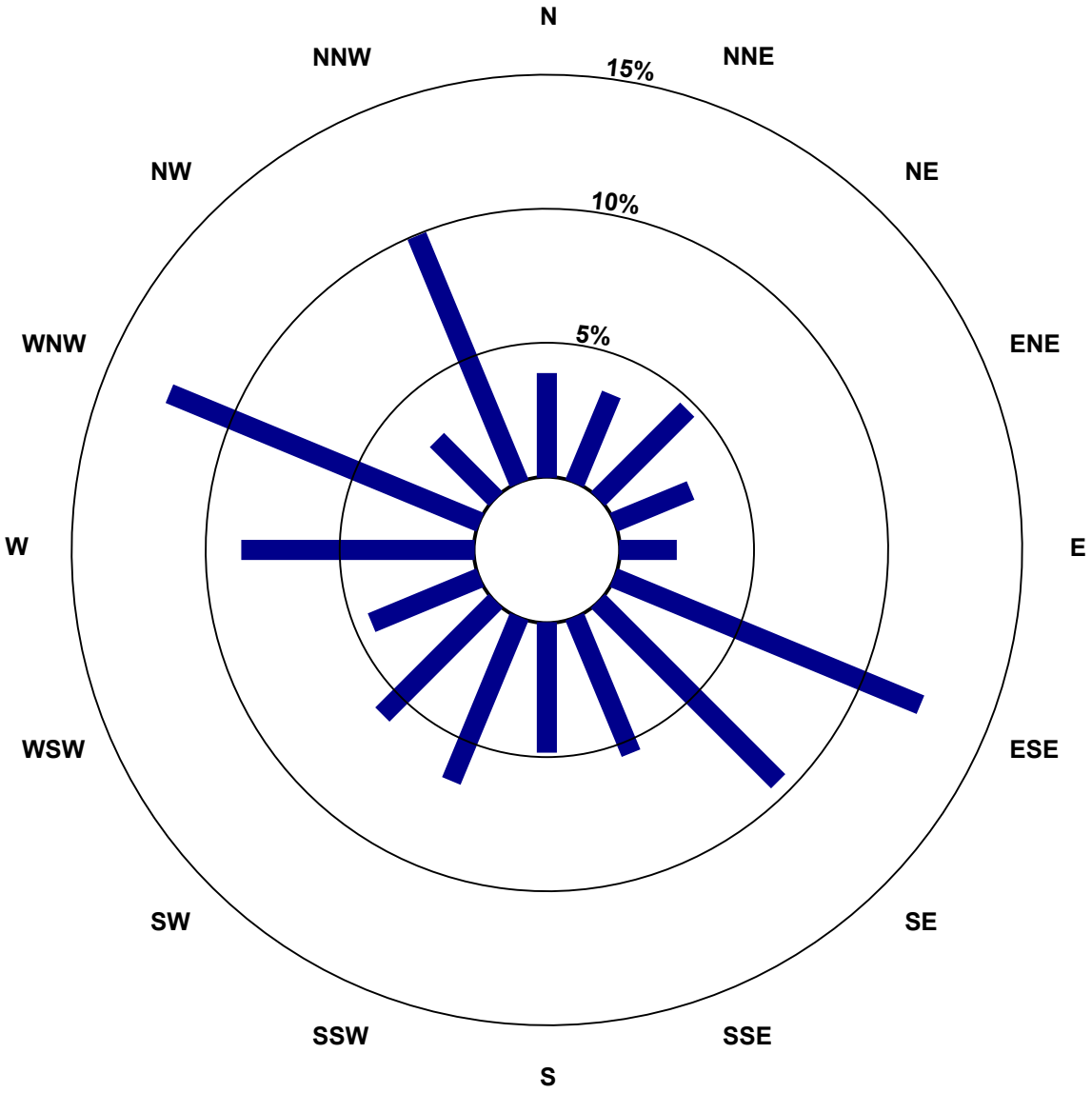
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Leismer



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

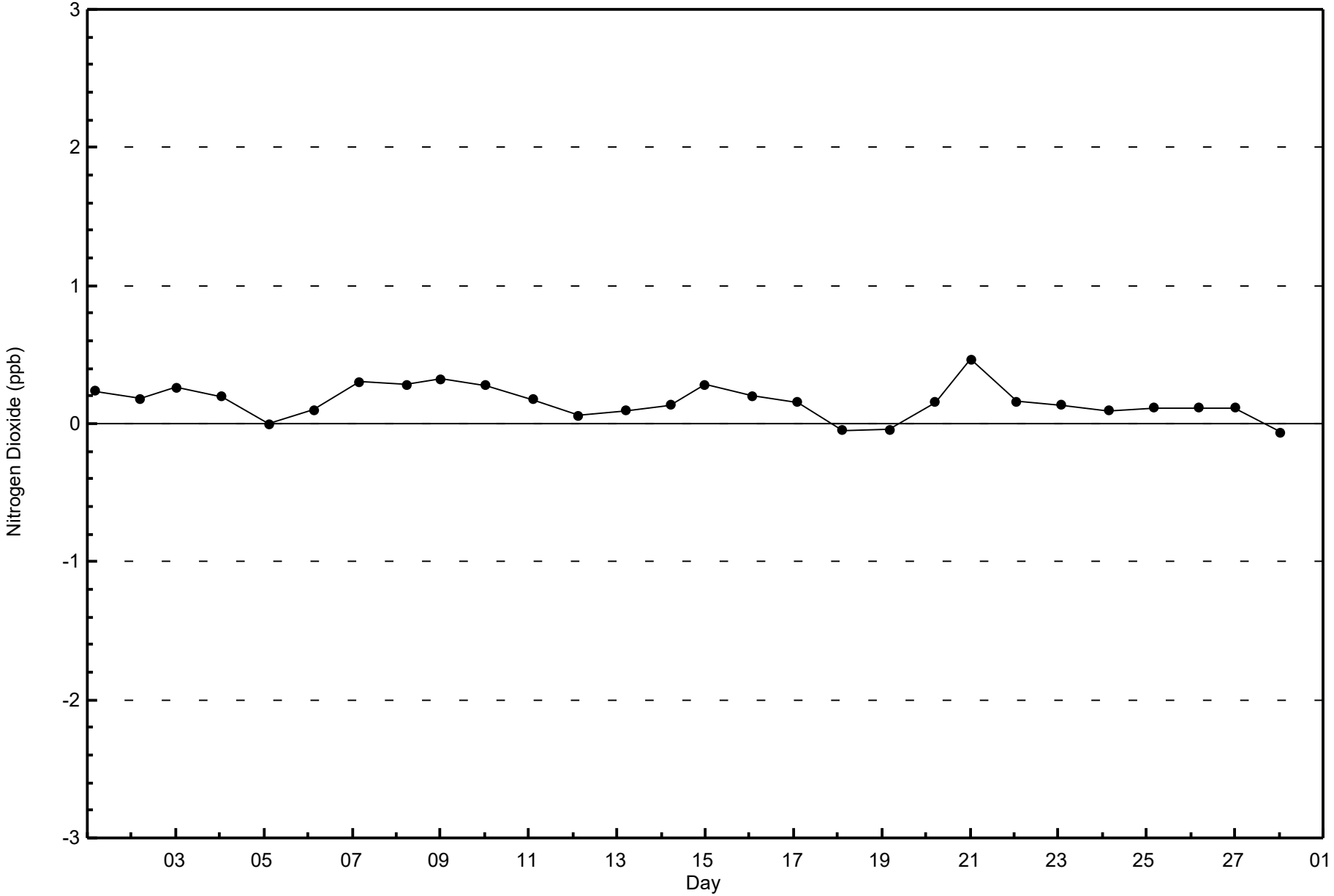
Total Number of Valid Hours: 625

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Leismer - February 2026

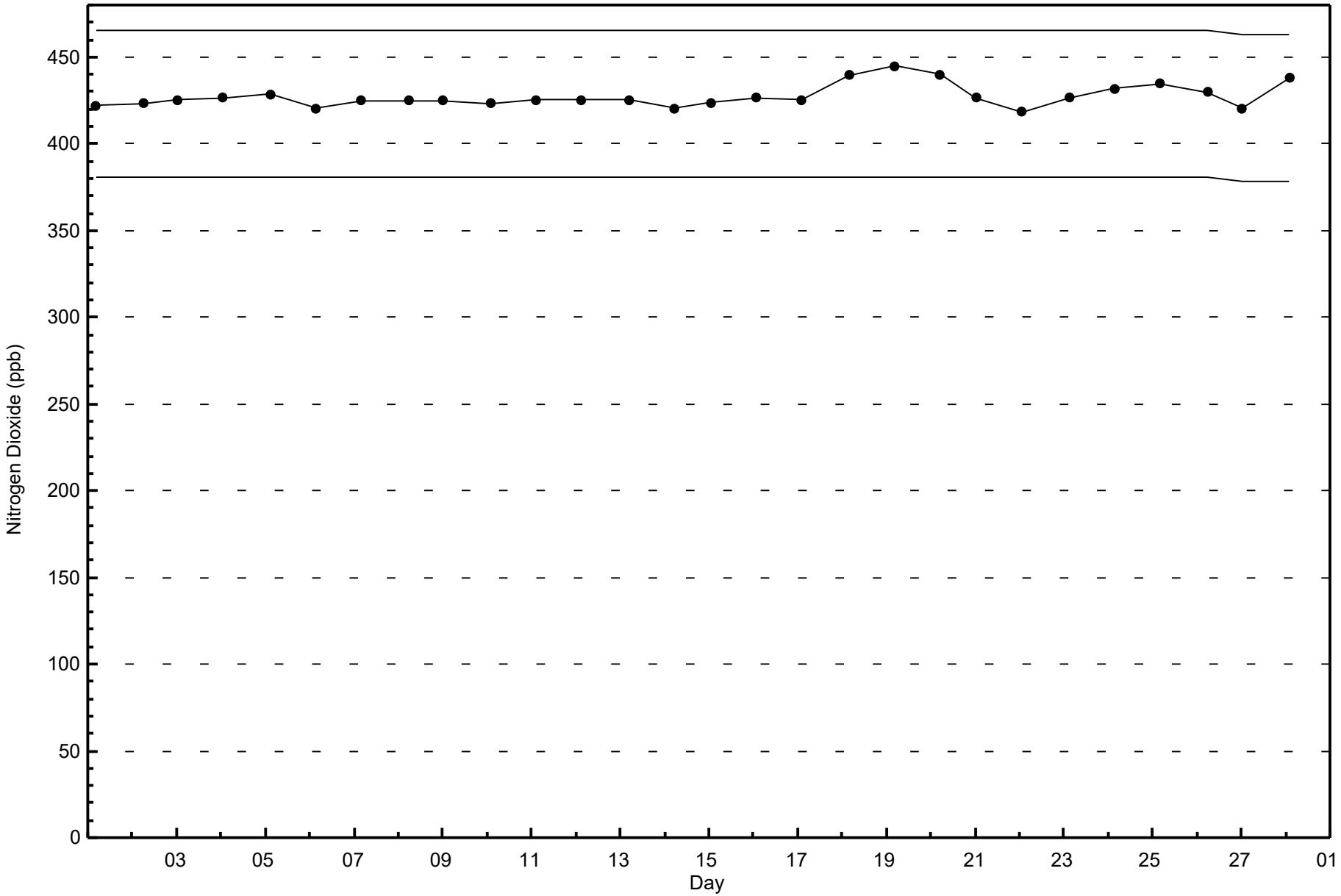


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Leismer - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Leismer - February 2026

Maximum Value: 27.1 ppb on Feb 20 07:00

Maximum Daily Average: 7.7 ppb on Feb 27

Minimum Value: 0.0 ppb on Feb 17 00:00

Minimum Daily Average: 1.2 ppb on Feb 12

Maximum Diurnal Average: 5.3 ppb at hour 9

Minimum Diurnal Average: 1.8 ppb at hour 2

Monthly Average: 3.34 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.6 Q_1 = 1.1 Median = 2.1 Q_3 = 4.2 P_{90} = 7.5 P_{99} = 18.7

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.3	0.6	0.4	2.9	Z	3.4	2.6	1.8	3.1	2.8	2.5	3.0	2.8	2.7	3.2	2.9	3.2	3.0	2.7	3.0	2.1	1.6	1.3	1.2	2.3	3.4
2-Feb	1.1	1.0	0.8	0.8	0.8	Z	1.0	0.9	1.1	1.5	1.5	1.6	1.8	2.0	2.4	2.3	4.4	18.5	5.4	2.0	2.4	3.5	2.6	1.7	2.7	18.5
3-Feb	Z	1.1	0.8	1.2	3.9	4.0	1.8	2.5	2.3	4.4	1.6	1.2	0.6	1.8	0.5	0.4	0.3	0.3	0.3	0.5	0.6	0.7	1.3	1.7	1.5	4.4
4-Feb	1.6	Z	1.6	1.7	1.9	2.2	2.3	2.0	2.7	4.4	2.0	1.9	2.2	3.7	7.3	5.5	1.8	1.8	0.9	1.0	1.0	1.0	0.7	0.7	2.3	7.3
5-Feb	0.8	1.0	Z	1.6	1.2	1.3	6.3	21.4	10.8	3.7	4.2	3.8	3.8	11.0	5.7	3.9	4.1	2.7	3.8	2.2	3.0	2.4	2.3	2.3	4.5	21.4
6-Feb	2.6	2.2	2.6	Z	3.8	3.5	3.1	2.6	1.9	1.8	1.2	2.0	2.5	3.4	2.6	2.8	7.6	11.1	7.1	6.9	1.6	2.0	1.5	2.2	3.4	11.1
7-Feb	2.8	2.4	3.9	2.9	Z	5.9	6.1	3.3	3.8	2.8	2.0	6.3	6.8	4.6	6.7	15.0	14.3	11.0	9.3	11.9	11.2	10.9	9.8	6.6	7.0	15.0
8-Feb	3.7	2.2	1.5	1.6	2.5	Z	3.5	3.0	2.2	2.3	7.5	20.3	12.1	11.9	13.3	11.0	10.2	10.8	3.8	1.9	2.4	3.3	0.5	3.3	5.9	20.3
9-Feb	Z	0.6	0.3	0.1	0.1	0.0	0.4	4.8	4.6	2.2	1.0	1.4	2.0	2.4	3.8	2.6	2.8	4.0	3.2	2.3	1.4	1.2	1.1	1.0	1.9	4.8
10-Feb	1.1	Z	1.4	1.1	1.2	3.0	2.9	1.0	1.5	1.1	1.6	2.3	3.3	3.8	4.2	4.2	5.1	7.8	7.4	5.4	3.2	2.6	2.6	2.8	3.1	7.8
11-Feb	2.9	2.8	Z	2.9	2.3	4.4	2.9	2.6	1.7	2.5	1.5	0.8	0.9	0.7	0.7	0.7	0.8	1.2	6.0	1.1	0.9	0.9	0.8	0.7	1.9	6.0
12-Feb	0.7	0.8	0.7	Z	0.8	0.7	0.6	0.6	1.2	0.8	1.1	0.8	0.7	0.6	0.7	0.7	0.6	0.8	0.9	1.1	3.2	4.9	3.4	2.0	1.2	4.9
13-Feb	0.5	0.3	0.3	0.2	Z	0.5	0.5	0.7	0.7	0.7	2.8	9.2	5.4	1.2	0.6	0.5	0.3	1.0	3.4	1.0	0.6	1.2	0.9	1.3	1.5	9.2
14-Feb	1.2	0.8	0.9	1.9	2.0	Z	6.1	4.5	8.9	1.8	1.1	1.0	0.7	0.5	0.3	0.3	0.3	0.4	0.8	0.6	1.7	1.0	3.0	1.0	1.8	8.9
15-Feb	Z	1.0	0.7	1.0	0.9	0.6	2.1	15.8	18.8	12.3	13.5	12.1	6.4	1.1	5.3	6.4	7.7	4.2	5.6	4.7	2.5	2.3	1.8	4.5	5.7	18.8
16-Feb	4.9	Z	3.2	2.0	2.6	3.9	5.8	4.2	3.0	1.9	0.8	0.8	1.1	0.3	0.5	1.5	0.5	1.5	1.2	0.2	0.0	0.0	0.4	0.0	1.8	5.8
17-Feb	0.0	0.0	Z	0.1	0.4	1.6	3.0	2.9	2.1	2.0	1.9	2.0	2.1	1.7	3.6	3.0	1.8	1.8	2.0	0.9	1.2	0.3	0.3	0.3	1.5	3.6
18-Feb	0.3	0.4	0.7	Z	2.4	3.2	4.4	6.9	12.2	10.6	5.9	5.8	7.5	6.0	5.0	5.7	10.1	9.2	20.0	8.7	10.5	9.9	6.0	6.4	6.9	20.0
19-Feb	5.1	4.9	4.0	3.0	Z	2.0	1.7	1.8	2.0	1.5	0.9	0.7	1.8	2.8	0.4	0.3	0.4	0.3	0.9	1.1	1.3	1.3	1.4	1.7	1.8	5.1
20-Feb	1.6	2.9	4.7	4.6	6.1	Z	27.1	8.0	4.5	7.7	6.8	6.6	6.9	7.2	4.1	5.9	4.4	8.0	11.0	4.4	4.2	2.7	2.8	2.4	6.3	27.1
21-Feb	Z	3.0	3.1	5.4	7.1	6.6	8.0	3.7	3.5	3.8	2.3	0.9	2.1	1.8	1.6	1.2	1.0	2.1	4.0	2.0	1.8	0.3	0.2	0.3	2.9	8.0
22-Feb	0.2	Z	5.3	5.3	6.8	6.8	6.1	5.0	2.3	0.3	0.9	1.7	1.4	1.6	1.6	1.5	1.7	2.4	1.8	0.4	0.3	0.3	3.5	9.9	2.9	9.9
23-Feb	4.5	5.5	Z	6.9	7.2	4.6	0.4	5.9	6.9	2.4	2.6	1.1	0.9	0.7	0.9	2.3	8.6	5.9	4.3	1.9	1.2	1.2	1.2	1.6	3.4	8.6
24-Feb	1.3	1.3	1.2	Z	1.6	1.4	1.3	1.7	1.7	2.3	2.1	1.5	1.4	1.4	1.2	0.9	1.1	1.4	5.0	1.7	1.6	0.9	1.0	1.1	1.6	5.0
25-Feb	1.9	2.2	2.0	2.5	Z	4.6	6.4	16.7	18.8	5.3	1.8	1.3	1.1	2.5	1.3	1.3	1.8	1.1	3.5	1.8	1.1	2.6	1.0	1.4	3.6	18.8
26-Feb	1.2	1.0	1.0	1.0	1.4	Z	1.2	1.2	1.7	0.9	0.8	C	C	C	C	C	11.9	14.3	4.6	3.7	5.2	3.1	2.1	1.8	3.2	14.3
27-Feb	Z	3.6	3.8	4.4	9.0	15.8	15.3	18.1	22.3	5.9	5.2	6.0	6.2	7.5	8.8	6.5	5.3	5.5	6.1	2.3	1.7	1.6	11.1	4.9	7.7	22.3
28-Feb	2.8	Z	8.0	8.4	16.8	7.5	10.3	5.1	2.9	2.4	1.4	1.2	1.2	1.1	0.7	0.8	0.7	1.9	1.6	1.7	1.6	1.6	2.0	2.6	3.7	16.8
	1.9	1.8	2.2	2.6	3.6	3.8	4.8	5.3	5.3	3.3	2.8	3.6	3.2	3.2	3.2	3.3	4.0	4.8	4.5	2.7	2.5	2.3	2.4	2.4	Diurnal Average	
	5.1	5.5	8.0	8.4	16.8	15.8	27.1	21.4	22.3	12.3	13.5	20.3	12.1	11.9	13.3	15.0	14.3	18.5	20.0	11.9	11.2	10.9	11.1	9.9	Diurnal Maximum	

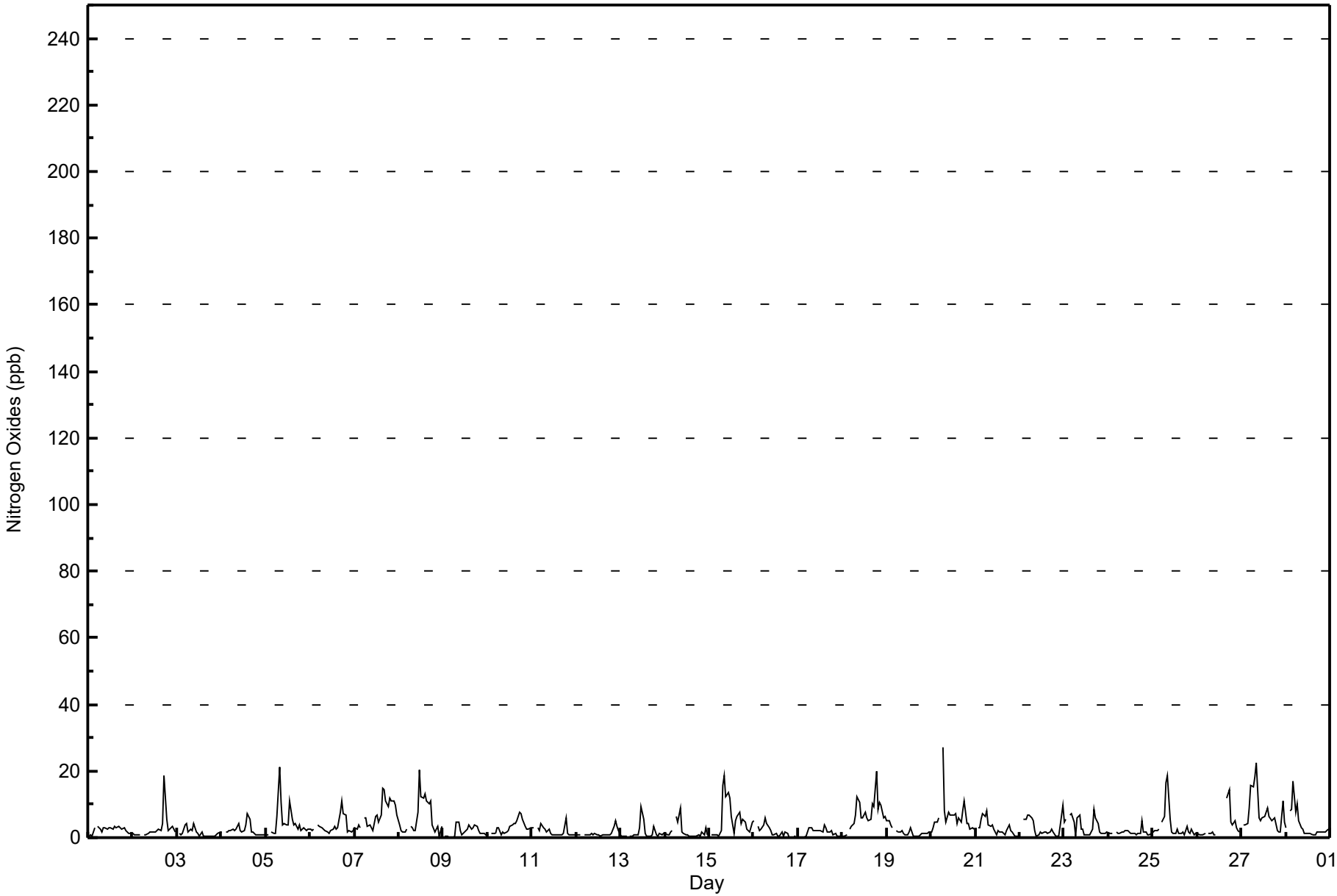
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Leismer - February 2026



Nitrogen Oxides (NO_X) - ppb

Leismer - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	636	99.53	99.53
21 - 40	3	0.47	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Leismer - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	23	22	29	19	13	77	59	34	30	41	37	27	54	78	18	62	623
21 - 40	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	24	22	29	19	13	77	59	34	30	41	37	27	54	78	19	62	625

Total Number of Valid Hours: 625

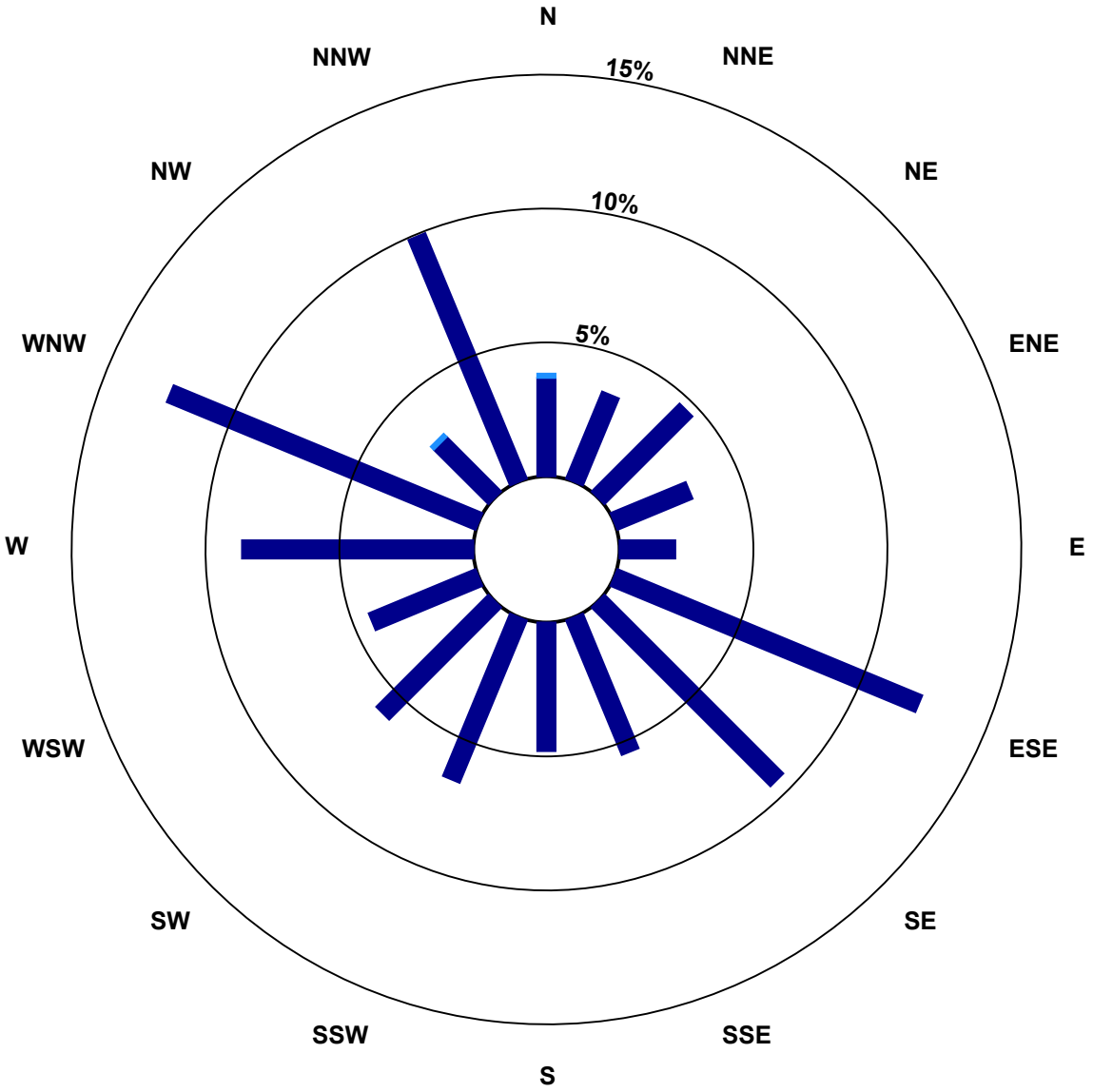
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Leismer



Classes (ppb)

- 0 - 20
- 21 - 40
- 11 - 80
- 81 - 159
- > 159

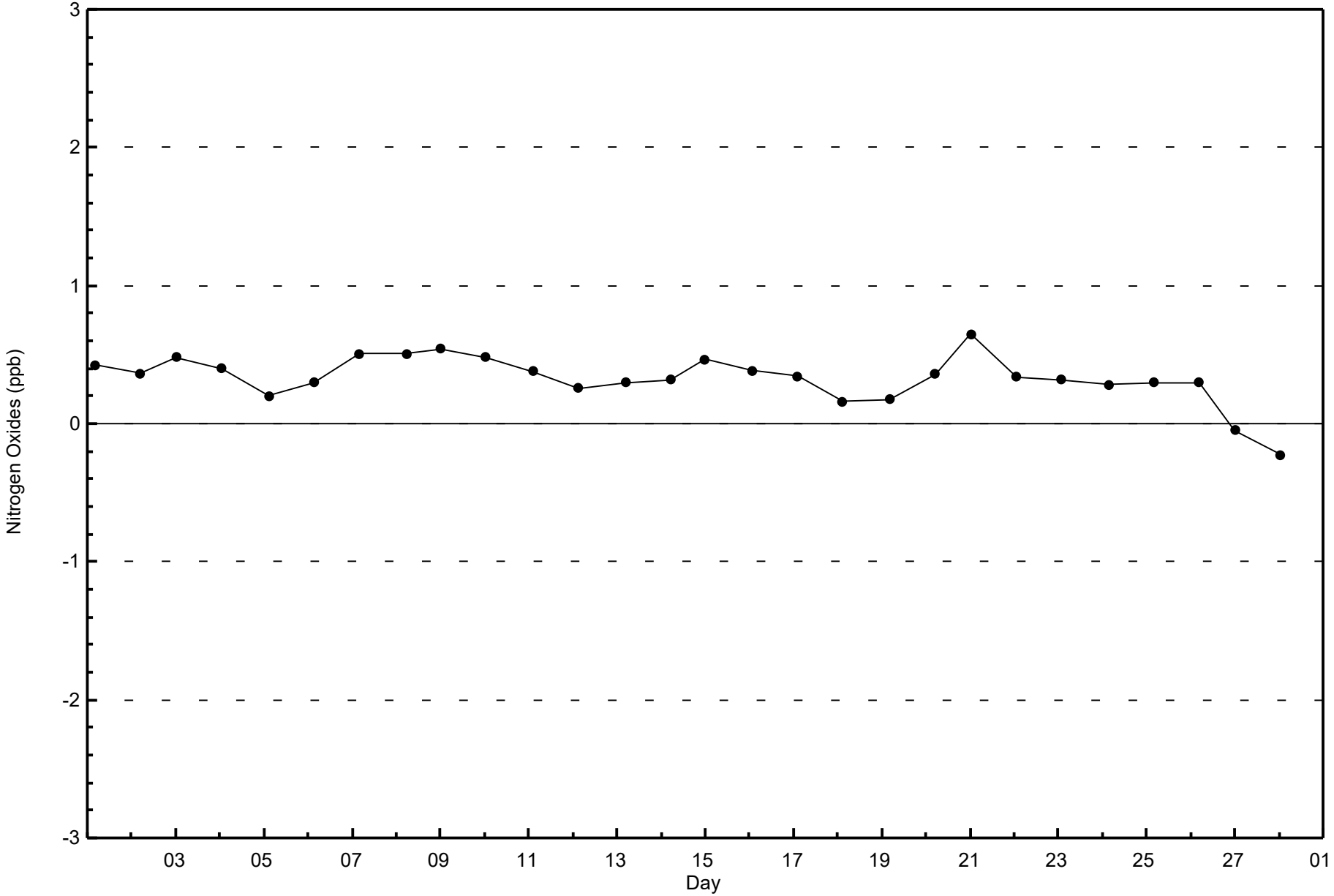
Total Number of Valid Hours: 625

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Leismer - February 2026

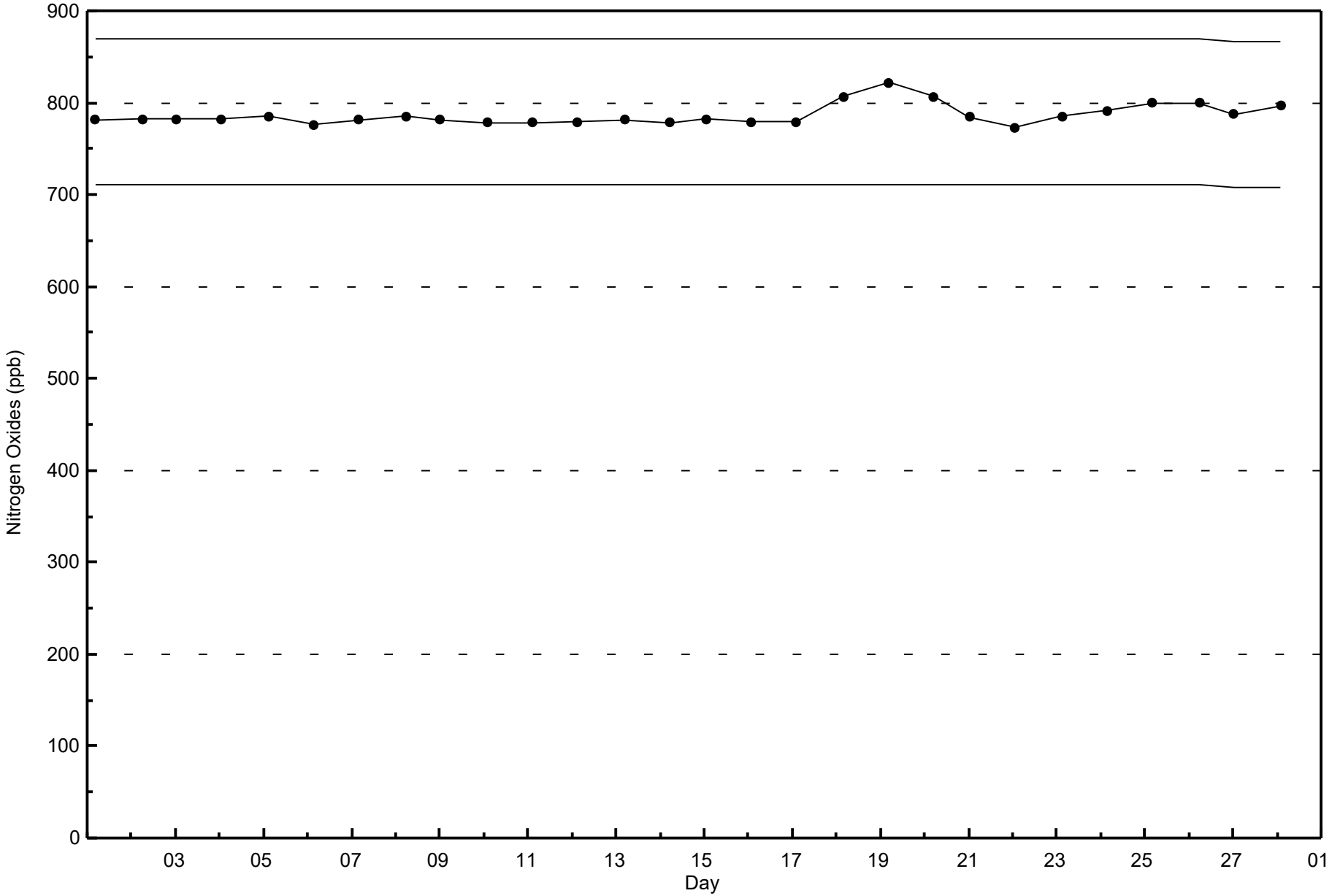


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Leismer - February 2026



Maximum Value: 8.2 C on Feb 4 15:00
Maximum Daily Average: 3.2 C on Feb 4

Minimum Value: -35.1 C on Feb 19 04:00
Minimum Daily Average: -30.5 C on Feb 18
Maximum Diurnal Average: -8.5 C at hour 15
Minimum Diurnal Average: -14.3 C at hour 8
Monthly Average: -11.88 C
Percentiles: P_1 = -34.3 P_{10} = -26.1 Q_1 = -19.8 Median = -10.1 Q_3 = -4.4 P_{90} = 0.2 P_{99} = 6.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

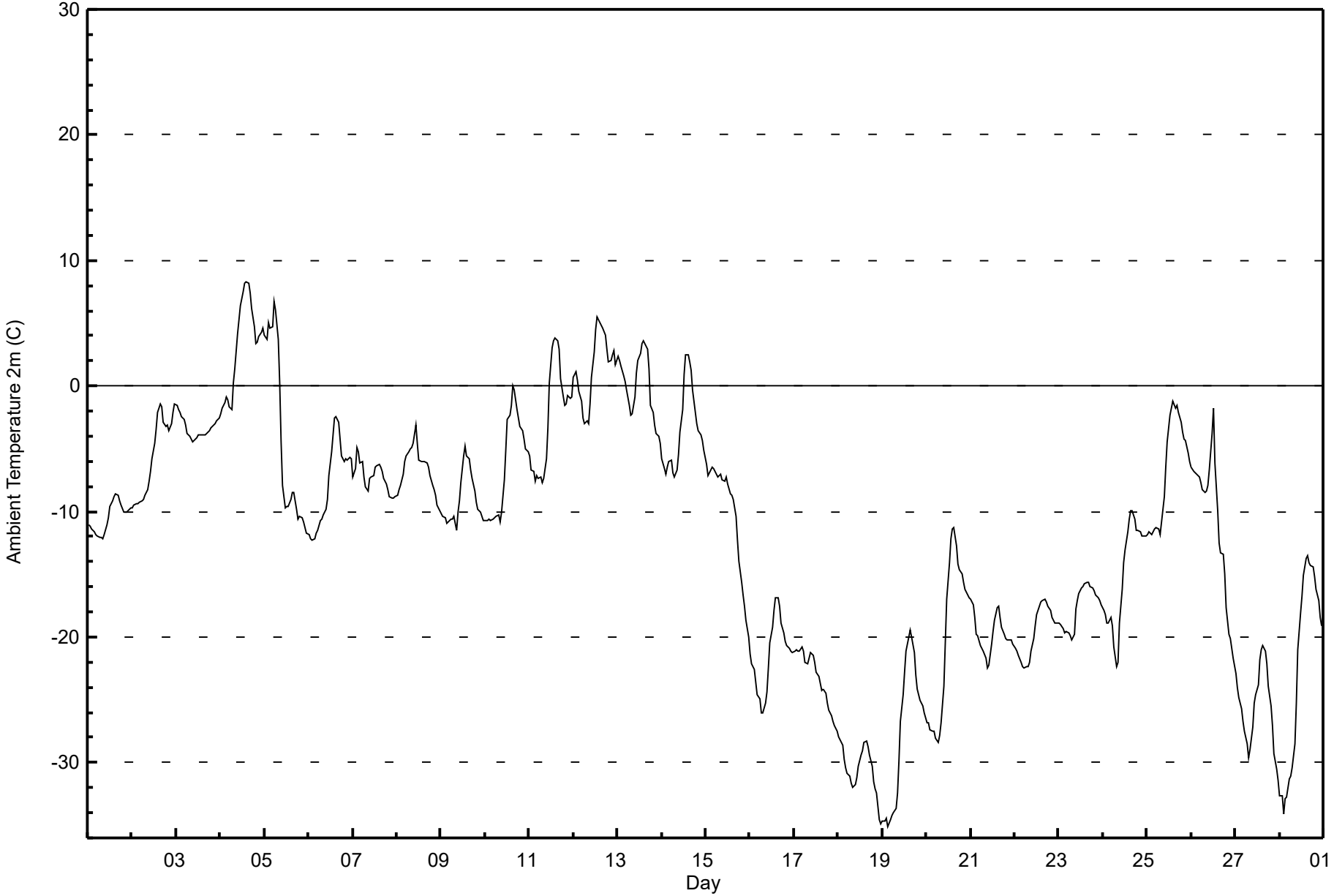
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-11.1	-11.2	-11.4	-11.6	-11.8	-11.9	-12.0	-12.1	-12.1	-11.8	-11.1	-10.5	-9.7	-9.1	-8.8	-8.6	-8.8	-9.1	-9.5	-10.0	-10.0	-10.0	-10.0	-9.7	-10.5	-8.6
2-Feb	-9.7	-9.5	-9.4	-9.4	-9.2	-9.2	-9.0	-8.7	-8.2	-7.6	-6.8	-5.8	-4.6	-3.5	-2.1	-1.4	-1.7	-2.8	-3.3	-3.2	-3.6	-3.0	-2.2	-1.4	-5.6	-1.4
3-Feb	-1.5	-1.9	-2.1	-2.4	-2.7	-3.1	-3.8	-4.0	-4.2	-4.4	-4.2	-4.1	-3.9	-3.9	-3.9	-3.9	-3.9	-3.6	-3.5	-3.3	-3.2	-2.9	-2.8	-2.6	-3.3	-1.5
4-Feb	-2.3	-1.8	-1.3	-0.8	-1.0	-1.7	-1.9	0.3	1.4	4.2	5.3	6.4	7.5	8.1	8.2	8.2	7.5	6.2	4.7	3.4	3.5	3.9	4.3	4.6	3.2	8.2
5-Feb	4.1	3.7	5.0	4.6	4.7	6.7	6.1	3.7	0.2	-4.5	-7.9	-9.7	-9.6	-9.6	-9.1	-8.5	-8.5	-9.8	-10.6	-10.4	-10.5	-10.8	-11.2	-11.7	-4.3	6.7
6-Feb	-11.9	-12.2	-12.3	-12.2	-11.7	-11.4	-10.8	-10.6	-10.3	-9.8	-9.0	-7.2	-5.2	-3.9	-2.6	-2.5	-2.9	-4.2	-5.6	-6.0	-5.8	-5.9	-5.7	-5.8	-7.7	-2.5
7-Feb	-7.3	-6.6	-4.9	-5.3	-6.1	-6.1	-7.2	-8.1	-8.3	-7.3	-7.2	-7.1	-6.4	-6.3	-6.3	-6.5	-6.8	-7.3	-7.8	-8.3	-8.8	-8.9	-9.0	-8.8	-7.2	-4.9
8-Feb	-8.7	-8.3	-7.9	-7.0	-6.0	-5.5	-5.2	-5.0	-5.0	-4.6	-3.1	-4.6	-5.9	-6.0	-6.0	-6.0	-6.1	-6.5	-7.1	-8.0	-8.3	-8.7	-9.5	-9.9	-6.6	-3.1
9-Feb	-10.1	-10.4	-10.4	-11.0	-10.8	-10.6	-10.6	-10.4	-11.5	-10.0	-9.2	-7.7	-5.6	-4.8	-5.5	-5.8	-6.7	-7.4	-8.4	-9.2	-9.8	-10.1	-10.4	-10.7	-9.1	-4.8
10-Feb	-10.7	-10.7	-10.6	-10.7	-10.6	-10.4	-10.3	-10.3	-10.9	-10.0	-7.5	-5.1	-2.7	-2.3	-1.5	0.0	-0.3	-1.9	-2.6	-3.3	-3.6	-4.3	-5.0	-5.2	-6.3	0.0
11-Feb	-5.5	-6.7	-6.8	-7.6	-7.1	-7.3	-7.3	-7.7	-7.4	-5.8	-3.3	0.2	3.1	3.6	3.9	3.6	2.9	0.6	-0.9	-1.5	-1.4	-0.8	-1.0	-0.9	-2.5	3.9
12-Feb	0.7	1.1	0.4	-0.4	-1.2	-2.6	-3.0	-2.8	-3.0	-1.5	0.7	2.7	4.5	5.5	5.1	4.8	4.6	4.1	2.9	1.9	2.1	2.5	2.8	1.7	1.4	5.5
13-Feb	2.4	2.1	1.6	0.8	0.4	-0.3	-1.5	-2.3	-2.2	-0.8	1.1	2.0	2.6	3.4	3.6	3.4	3.0	1.3	-1.6	-2.1	-3.1	-3.7	-4.0	-4.5	0.1	3.6
14-Feb	-5.8	-6.6	-7.0	-6.4	-6.0	-5.9	-7.0	-7.3	-6.7	-5.5	-3.7	-1.9	0.9	2.4	2.5	1.9	1.2	-0.3	-2.1	-3.0	-3.5	-3.9	-4.3	-5.2	-3.5	2.5
15-Feb	-6.2	-7.1	-6.9	-6.5	-6.5	-6.8	-7.2	-7.1	-7.1	-7.4	-7.6	-7.2	-7.8	-8.6	-8.8	-9.1	-10.4	-12.3	-14.0	-15.6	-16.6	-17.5	-18.7	-20.0	-10.1	-6.2
16-Feb	-21.3	-22.1	-22.6	-23.6	-24.6	-24.9	-26.1	-26.1	-25.3	-24.3	-22.4	-20.5	-19.3	-17.9	-16.9	-16.9	-17.6	-18.9	-19.6	-20.4	-20.7	-20.9	-21.2	-21.3	-21.5	-16.9
17-Feb	-21.2	-21.0	-21.1	-21.1	-20.8	-21.2	-22.0	-22.1	-21.6	-21.2	-21.4	-22.0	-22.8	-23.2	-23.6	-24.2	-24.2	-24.4	-25.2	-25.8	-26.3	-26.7	-27.1	-27.5	-23.2	-20.8
18-Feb	-28.0	-28.2	-28.6	-29.7	-30.4	-30.8	-31.0	-31.6	-31.9	-31.7	-31.2	-30.3	-29.4	-29.0	-28.4	-28.3	-28.7	-29.4	-30.3	-31.5	-32.1	-32.4	-34.6	-34.9	-30.5	-28.0
19-Feb	-34.6	-34.6	-34.5	-35.1	-34.5	-34.2	-34.0	-33.6	-32.4	-29.8	-26.7	-24.5	-22.8	-21.1	-20.0	-19.5	-20.0	-21.2	-23.0	-24.2	-25.0	-25.2	-25.5	-26.0	-27.6	-19.5
20-Feb	-26.8	-26.9	-27.4	-27.5	-27.5	-28.1	-28.4	-27.9	-26.8	-24.0	-20.5	-17.0	-14.1	-12.2	-11.4	-11.2	-12.7	-14.2	-14.6	-15.0	-15.6	-16.2	-16.7	-16.8	-20.0	-11.2
21-Feb	-17.0	-17.4	-18.5	-19.7	-19.9	-20.7	-20.9	-21.1	-21.7	-22.5	-22.3	-20.5	-19.5	-18.7	-17.7	-17.5	-18.4	-19.3	-19.7	-20.2	-20.3	-20.2	-20.3	-20.6	-19.8	-17.0
22-Feb	-20.8	-21.2	-21.5	-22.1	-22.3	-22.4	-22.4	-22.4	-22.0	-21.1	-20.1	-19.1	-18.2	-17.5	-17.2	-17.1	-17.0	-17.2	-17.5	-17.9	-18.4	-18.7	-18.9	-18.9	-19.7	-17.0
23-Feb	-18.9	-19.1	-19.3	-19.6	-19.6	-19.7	-19.9	-20.2	-19.8	-17.7	-17.1	-16.5	-16.1	-15.9	-15.7	-15.7	-15.7	-16.0	-16.1	-16.4	-16.6	-16.8	-17.1	-17.5	-17.6	-15.7
24-Feb	-17.9	-18.2	-18.8	-18.8	-18.4	-19.1	-20.7	-22.3	-22.0	-18.9	-16.2	-14.1	-13.0	-11.7	-10.6	-10.0	-10.0	-10.6	-11.5	-11.5	-11.7	-12.0	-12.0	-12.0	-15.1	-10.0
25-Feb	-11.8	-11.7	-11.8	-11.6	-11.4	-11.3	-11.4	-11.9	-10.8	-8.8	-6.5	-4.4	-2.4	-1.8	-1.2	-1.8	-1.5	-2.2	-2.9	-3.7	-4.3	-4.4	-5.4	-6.0	-6.7	-1.2
26-Feb	-6.5	-6.8	-6.9	-7.0	-7.2	-7.7	-8.3	-8.5	-8.4	-7.9	-6.7	-3.7	-1.7	-6.1	-10.0	-12.5	-13.3	-13.4	-14.9	-17.7	-19.8	-20.2	-20.9	-21.7	-10.7	-1.7
27-Feb	-23.0	-24.0	-24.8	-25.7	-26.7	-27.5	-28.5	-29.6	-29.0	-27.1	-25.3	-24.6	-23.8	-21.8	-21.0	-20.7	-21.1	-22.1	-23.9	-25.5	-27.0	-29.3	-30.6	-31.4	-25.6	-20.7
28-Feb	-32.6	-32.7	-34.1	-32.9	-32.8	-31.3	-31.1	-30.4	-28.5	-25.3	-21.0	-18.1	-16.7	-15.1	-13.8	-13.5	-14.0	-14.3	-14.4	-15.2	-16.2	-17.1	-18.4	-19.1	-22.4	-13.5
	-13.0	-13.2	-13.4	-13.6	-13.6	-13.7	-14.1	-14.3	-14.1	-13.1	-11.8	-10.5	-9.4	-8.8	-8.5	-8.5	-9.0	-9.9	-10.8	-11.5	-12.0	-12.3	-12.7	-13.0	Diurnal Average	
	4.1	3.7	5.0	4.6	4.7	6.7	6.1	3.7	1.4	4.2	5.3	6.4	7.5	8.1	8.2	8.2	7.5	6.2	4.7	3.4	3.5	3.9	4.3	4.6	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Leismer - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	164	24.40	24.40
-20 - 0	439	65.33	89.73
0 - 10	69	10.27	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 2m (RH2) - %

Leismer - February 2026

Maximum Value: 99.0 % on Feb 2 20:00

Maximum Daily Average: 95.5 % on Feb 3

Minimum Value: 31.1 % on Feb 13 17:00

Minimum Daily Average: 43.1 % on Feb 13

Maximum Diurnal Average: 83.1 % at hour 8

Minimum Diurnal Average: 69.5 % at hour 15

Monthly Average: 77.85 %

Percentiles: P_1 = 40.2 P_{10} = 57.9 Q_1 = 69.9 Median = 79.2 Q_3 = 90.6 P_{90} = 94.0 P_{99} = 98.3

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

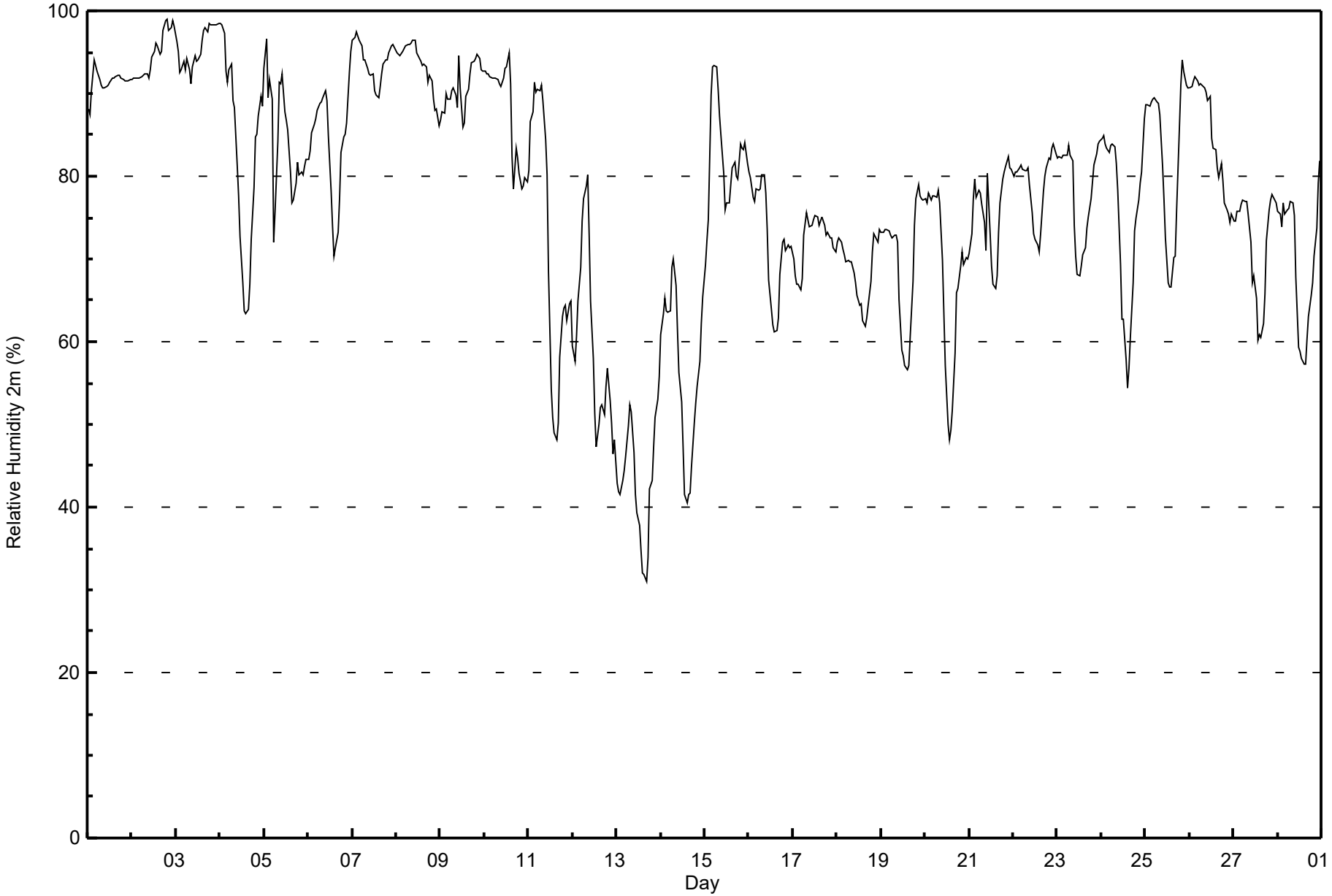
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	88.1	87.5	90.4	94.0	93.5	92.6	91.7	91.1	90.7	90.7	90.9	91.0	91.3	91.8	91.9	92.1	92.3	92.2	91.9	91.6	91.5	91.5	91.5	91.6	91.4	94.0
2-Feb	91.7	91.9	91.8	91.8	91.9	92.0	92.2	92.4	92.4	91.9	92.9	94.5	95.2	96.1	95.8	94.7	95.1	97.6	98.9	99.0	97.6	97.9	98.8	98.1	94.7	99.0
3-Feb	96.3	95.1	92.5	92.9	94.0	92.9	94.3	92.9	91.2	93.3	94.5	93.9	94.1	94.8	96.5	97.6	98.0	97.5	98.4	98.3	98.3	98.4	98.3	98.4	95.5	98.4
4-Feb	98.4	98.3	97.3	92.7	91.3	92.9	93.5	89.2	88.4	81.4	77.6	72.7	67.2	63.7	63.3	63.9	66.9	72.4	78.7	84.8	85.0	87.2	89.6	88.6	82.7	98.4
5-Feb	93.1	96.7	89.6	91.6	89.3	72.0	75.8	84.2	91.3	91.3	92.4	87.9	86.9	85.6	80.4	76.9	77.0	79.2	81.7	80.2	80.5	80.2	81.2	82.1	84.5	96.7
6-Feb	82.1	83.1	85.3	86.2	86.9	88.0	88.7	89.0	89.5	90.3	89.2	85.0	78.1	73.9	70.4	71.3	73.3	77.4	82.9	84.8	85.1	86.5	92.6	95.2	83.9	95.2
7-Feb	96.4	96.8	97.5	96.9	96.4	95.7	94.0	94.1	93.1	92.3	92.3	92.4	90.3	89.8	89.4	90.9	92.3	93.6	94.0	94.1	94.9	95.8	95.9	95.6	93.9	97.5
8-Feb	95.0	94.8	94.6	95.0	95.5	95.7	95.9	96.0	96.1	96.4	96.4	95.0	94.6	93.8	93.4	93.6	93.3	91.3	92.3	91.5	89.4	87.9	88.1	86.1	93.4	96.4
9-Feb	86.8	87.8	87.7	90.1	89.4	89.3	90.4	90.6	89.8	88.2	94.6	90.6	85.9	86.4	89.7	90.5	92.4	93.7	94.0	94.2	94.7	94.2	93.0	92.7	90.7	94.7
10-Feb	92.7	92.4	92.3	92.0	91.8	91.9	91.8	91.7	91.1	90.9	91.8	93.1	93.3	94.9	91.2	82.3	78.4	83.4	82.3	80.3	78.5	78.7	79.8	79.3	87.7	94.9
11-Feb	80.7	86.6	87.9	91.4	90.2	90.6	90.3	91.0	89.2	84.4	80.3	68.4	54.3	50.8	49.0	48.1	50.1	58.1	63.0	64.1	64.4	62.6	64.6	64.9	71.9	91.4
12-Feb	59.6	57.6	60.6	64.9	69.0	74.6	77.3	78.9	80.2	73.0	64.9	57.9	51.4	47.3	50.0	52.0	52.3	51.1	54.5	56.7	52.9	50.2	46.4	48.2	59.6	80.2
13-Feb	42.8	41.9	41.6	43.3	44.3	46.1	49.9	52.4	51.5	46.5	41.5	39.4	37.8	34.7	32.1	31.9	31.1	33.9	42.1	43.3	47.3	50.9	53.1	55.8	43.1	55.8
14-Feb	60.8	63.4	65.3	63.8	63.5	63.6	68.9	69.9	66.8	61.4	56.3	52.8	47.3	41.5	40.6	41.6	41.6	45.0	50.2	52.5	54.6	57.7	62.2	65.5	56.5	69.9
15-Feb	69.4	72.2	74.8	89.8	93.2	93.5	93.3	90.5	87.2	84.9	80.3	75.9	76.9	76.8	78.9	81.0	81.7	80.0	79.7	84.0	83.5	83.3	84.0	81.6	82.3	93.5
16-Feb	80.5	79.8	77.4	76.9	78.5	78.3	78.5	80.2	80.2	78.0	73.6	67.4	64.0	62.0	61.3	61.4	62.9	68.2	72.0	72.3	71.0	71.6	71.3	71.6	72.5	80.5
17-Feb	70.0	68.0	66.9	67.0	66.2	67.6	72.9	75.6	74.7	73.9	74.2	74.8	75.3	75.0	74.1	74.5	75.1	74.1	72.9	73.2	72.5	72.6	71.3	70.9	72.2	75.6
18-Feb	72.0	72.5	72.1	71.2	70.5	69.6	69.8	69.7	69.6	68.4	67.1	65.6	64.5	64.6	62.5	61.9	62.9	64.4	67.2	70.9	73.0	72.7	72.0	73.6	68.7	73.6
19-Feb	73.3	73.3	73.6	73.6	73.4	72.8	72.5	72.8	72.9	72.1	65.2	59.0	58.4	57.2	56.5	57.2	60.7	67.4	74.1	77.2	79.0	77.6	77.2	77.2	69.7	79.0
20-Feb	77.2	76.7	77.9	77.1	77.7	77.6	77.5	78.2	76.8	69.8	63.5	57.0	50.0	48.2	49.2	51.6	58.6	66.0	66.5	69.2	70.8	69.3	70.2	69.9	67.8	78.2
21-Feb	70.7	73.1	77.4	79.7	77.4	78.3	78.0	76.6	74.5	71.1	80.4	73.0	69.2	67.0	66.5	67.9	73.3	76.7	79.6	80.5	81.2	82.4	81.0	80.9	75.7	82.4
22-Feb	80.0	80.5	80.5	81.0	81.3	80.9	80.7	80.7	81.0	78.9	75.6	73.1	72.3	71.7	70.8	73.0	78.1	80.0	81.0	82.2	82.0	83.4	83.9	82.7	79.0	83.9
23-Feb	82.2	82.3	82.2	82.6	82.6	82.6	83.8	82.6	81.8	74.0	70.3	68.1	67.9	69.2	70.6	71.3	73.8	75.1	77.3	79.4	81.4	82.8	83.9	84.3	78.0	84.3
24-Feb	84.7	84.9	84.0	83.4	83.0	83.7	83.8	83.6	81.5	78.3	69.2	62.8	62.7	57.8	54.4	56.8	60.4	67.1	73.3	74.8	77.1	79.1	80.5	87.0	74.7	87.0
25-Feb	88.7	88.6	88.5	88.9	89.4	89.4	89.0	88.9	87.5	81.2	77.1	72.5	67.2	66.7	66.6	70.2	70.3	75.9	85.9	91.0	94.0	92.7	91.1	90.7	83.0	94.0
26-Feb	90.7	90.9	91.6	92.0	91.5	91.1	91.1	90.8	90.6	90.2	89.2	89.6	84.6	83.4	83.2	81.1	79.8	81.5	79.6	76.7	75.8	75.5	74.4	75.4	85.0	92.0
27-Feb	74.6	74.6	75.7	75.7	76.5	77.1	77.0	77.0	75.5	72.1	67.1	67.9	65.2	60.3	60.9	60.6	62.2	65.8	72.2	76.0	77.0	77.9	77.1	76.7	71.8	77.9
28-Feb	75.7	75.4	74.0	76.8	75.5	76.0	76.0	77.0	76.7	75.2	67.8	59.3	58.8	58.0	57.4	57.3	60.3	63.0	65.5	67.2	70.3	73.7	79.2	81.8	69.9	81.8
	80.5	80.9	81.1	82.2	82.3	82.0	82.8	83.1	82.6	80.0	77.7	74.3	71.6	70.1	69.5	69.8	71.2	74.0	76.8	78.2	78.7	79.1	79.7	80.2	Diurnal Average	
	98.4	98.3	97.5	96.9	96.4	95.7	95.9	96.0	96.1	96.4	96.4	95.0	95.2	96.1	96.5	97.6	98.0	97.6	98.9	99.0	98.3	98.4	98.8	98.4	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Leismer - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	7	1.04	1.04
40 - 60	69	10.27	11.31
60 - 80	270	40.18	51.49
80 - 100	326	48.51	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Leismer - February 2026

Maximum Speed: 31 km/h on Feb 26 22:00

Maximum Daily Speed Average: 16.4 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 20 08:00

Minimum Daily Speed Average: 1.0 km/h on Feb 20

Maximum Diurnal Speed Average: 5.3 km/h at hour 14

Minimum Diurnal Speed Average: 0.2 km/h at hour 3

Monthly Average Velocity: 1.6 km/h 323.5 deg

Percentiles: P_1 = 1 P_{10} = 3 Q_1 = 5 Median = 7 Q_3 = 11 P_{90} = 16 P_{99} = 29

Hours in Service: 672

Hours of Data: 656

Hours of Missing Data: 16

Percent Operational Time: 97.6

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE2	ESE4	SSE6	SE7	SE7	SE8	SE8	SE9	SE9	SE9	SSE10	SSE10	SSE9	SSE10	SSE11	SE10	SE10	SE11	SSE9	SSE8	SSE10	SSE9	SSE8	SSE8	SE8.1	SSE11
2-Feb	SSE7	SSE6	SSE7	SSE7	SSE8	SSE8	S7	S6	SSW7	SSW7	SW7	SW7	SW5	SW5	W9	WNW10	WNW6	NW3	NNE2	NNW3	WSW1	NNW5	NW6	NNW11	SW2.8	NNW11
3-Feb	NNW10	NNW12	NNW11	NNW10	NNW11	NNW15	NNW13	NNW11	NW7	NW7	WNW5	W5	SW5	WSW4	SSW6	SSW7	S9	S9	S9	S10	S10	S10	S10	S9	W2.9	NNW15
4-Feb	S11	SSW10	SSW12	SW12	SW10	SW8	SW7	WNW12	WNW18	WNW25	WNW22	WNW21	WNW21	WNW25	WNW25	WNW20	WNW15	WNW11	W6	S2	W4	W5	WSW3	WSW4	W10.4	WNW25
5-Feb	SW4	SW3	WNW8	W3	WNW7	WNW26	NW26	NW29	NNW30	NNW30	NNW22	NNW15	NNW17	NNW18	NNW14	NNW13	N9	NE6	NE6	ENE5	ESE5	SE8	SE8	SE8	NNW9.4	NNW30
6-Feb	SE8	SE8	SE9	ESE9	SE9	ESE10	SE9	ESE10	ESE8	ESE9	ESE8	SE10	ESE9	SE9	ESE10	SE9	SE7	SSE5	SSE4	SSE6	SSE7	SE4	S5	NNW1	SE7.4	ESE10
7-Feb	SSW4	WSW2	WNW6	WNW4	NW4	NW7	WNW1	E2	NE4	NNE3	ESE5	SE6	ESE7	SE6	ESE7	SE8	ESE7	ESE8	ESE8	ESE9	SE10	ESE8	ESE7	ESE6	ESE3.4	SE10
8-Feb	ESE5	ESE3	ESE4	SE6	SE5	UO	UO	UO	UO	UO	UO	NW23	NW21	NW22	NW22	NW20	NW19	NNW18	NNW17	NNW17	NNW15	NNW15	NNW14	NNW14	NW11.6	NW23
9-Feb	NW8	WNW6	W2	SW2	W5	WSW1	SSE4	SE4	ESE4	SE5	SE5	SE5	SE5	ESE5	ESE7	ESE7	ESE8	SE7	SE7	ESE7	ESE7	ESE7	ESE6	SE6	SE3.5	NNW8
10-Feb	ESE6	ESE4	ESE5	SE4	SE4	SE5	SE5	SE5	SE4	SSE4	SSE4	S4	S5	SSE6	SSE6	S7	SSW7	SSW5	SSW4	SSW5	SSW4	S5	SSW5	SSW5	SSE4.2	S7
11-Feb	SSW4	S5	SSW4	S3	S3	S4	S4	S4	SSW3	SSW4	SSW5	SW7	W10	W12	W12	WNW14	W7	SW3	W3	SW3	WSW3	WSW4	SSW5	SSW5	SW4.3	WNW14
12-Feb	WSW6	WSW7	WSW7	W8	W6	WSW4	WNW11	WNW11	W5	WNW8	WNW10	W9	WSW10	WSW11	SW8	SW8	SW9	SW10	SSW9	SW9	SW9	SW9	W8	W10	WSW7.6	WNW11
13-Feb	WNW21	W15	WNW15	WNW16	WNW14	W10	W6	W6	W9	WNW14	WNW22	WNW22	WNW21	WNW19	WNW24	WNW17	WNW12	WNW11	SSW3	WSW2	W2	WSW1	W3	WNW4	WNW11.9	WNW24
14-Feb	SSW3	S4	W1	W3	WNW4	WNW3	WSW2	W3	WNW4	WNW5	W6	WNW8	WNW15	WNW15	WNW16	WNW14	W10	WNW7	WNW12	WNW12	WNW12	WNW16	NW10	NNW8	WNW7.5	WNW16
15-Feb	WNW4	WSW2	W6	NW7	NW4	WNW4	NW5	NNW13	NNW12	NNW10	NNW10	N10	N15	N13	N10	N10	N13	NNE11	NE6	NE3	NE5	ENE6	E5	ENE6	N6.1	N15
16-Feb	ENE5	ENE6	ENE7	E3	NE5	ENE4	ESE3	ESE5	ESE8	ESE8	ESE11	ESE10	ESE11	ESE11	ESE9	ESE11	E11	E8	E8	E9	E10	ENE11	E11	ENE11	E7.8	E11
17-Feb	ENE9	ENE9	ENE11	NE13	NE14	NE15	NE11	NE14	NE15	NE16	NE16	NE16	NNE21	NNE21	NNE21	NNE21	NNE21	NNE21	NNE21	NNE22	NNE22	NNE20	NNE19	NNE19	NNE16.4	NNE22
18-Feb	NNE17	NNE18	NNE16	N17	N18	N18	N15	N16	N18	N17	N16	N16	NNW14	NNW14	NNW12	NNW12	NNW11	N9	NNW8	N5	NNW2	NNW3	WNW1	W3	N11.9	NNE18
19-Feb	WNW2	WNW2	WNW1	W2	W2	W1	W2	SW2	SW2	W5	W8	W7	WSW8	WSW7	SW7	SW6	SW7	SSW5	SSW4	SW5	SSW2	SSW2	S2	SSW3	WSW3.4	W8
20-Feb	SSW4	WSW0	SW1	S1	SW1	SSW1	UO	SW0	SSW1	W1	SW3	SSW4	W3	W1	WSW3	NNW2	SSE6	SE4	ESE5	ESE7	ENE5	E5	NE2	ENE4	SSE1.0	ESE7
21-Feb	NE3	NE3	NNE3	NE4	NE6	NE5	NE5	NE5	ENE8	ENE9	ENE9	E8	NE8	NE9	ENE7	ESE8	ESE9	E7	ENE6	ENE6	E8	ESE7	ESE6	ESE9	ENE5.9	ENE9
22-Feb	ESE10	ESE11	ESE9	ESE9	ESE9	ESE9	ESE7	ESE9	ESE10	ESE12	SE13	SE13	SE12	SE13	SE14	SE15	SE11	SE12	SE13	SE11	SE11	SE8	ESE8	ESE8	ESE10.5	SE15
23-Feb	SE7	SE6	ESE4	ESE4	ESE3	SSE1	SSE2	UO	UO	WNW6	NNW6	WNW5	WNW7	WNW9	WNW10	WNW13	NNW12	NW9	NNW8	NW6	WNW6	WNW5	W7	W6	WNW3.7	WNW13
24-Feb	W4	WNW9	WNW8	W7	W8	W7	WSW3	WSW2	WSW2	W6	WNW9	WNW10	W11	WNW10	W10	W7	W5	WSW2	S3	S4	S3	SSE4	SSE4	SSE5	W4.6	W11
25-Feb	SE6	ESE7	SE6	SE5	SE3	SE1	N3	NNW9	NW10	NW8	WNW7	W7	WNW8	W9	WNW10	WNW9	W4	WNW6	NW4	NNE3	E1	ESE5	ESE8	ESE8	WNW1.6	WNW10
26-Feb	ESE9	ESE9	ESE9	ESE7	ESE12	ESE11	ESE8	ESE7	ESE5	SSE6	SSE6	WSW5	WNW31	NW30	NW30	NNW29	NNW20	NNW25	NNW25	N27	N28	NNW31	NNW30	N22	NNW10.3	NNW31
27-Feb	N17	NNW12	NNW11	NNW13	NNW12	NNW9	N5	NNW3	N6	NNE6	NNW7	NNW10	NNW7	NNW6	N8	NNW9	NNE8	N8	NE7	NE5	NE3	UO	UO	UO	N7.8	N17
28-Feb	UO	UO	UO	UO	W0	WNW1	SW1	SSW2	S3	SSW4	SSW9	SW9	SSW10	SW11	SW13	SSW12	SSW11	SSW11	SSW9	SSW9	SW7	SW7	SSW6	SW6	SSW6.9	SW13
	ENE0.6	E0.6	NNE0.2	N0.4	N0.8	NNW1.4	NNW1.2	NNW2.1	NNW2.5	NNW2.7	NW2.3	WNW3.3	WNW5.1	WNW5.3	WNW5.2	WNW4.0	NW2.1	NNW1.6	NNE1.3	NE1.3	NE0.8	NNE0.8	NE0.7	NE1.0	Diurnal Average		
	WNW21	NNE18	NNE16	N17	N18	WNW26	NW26	NW29	NNW30	NNW30	WNW22	NW23	WNW31	NW30	NW30	NNW29	NNE21	NNW25	NNW25	N27	N28	NNW31	NNW30	N22	Diurnal Maximum		

UO - Unstable Operation

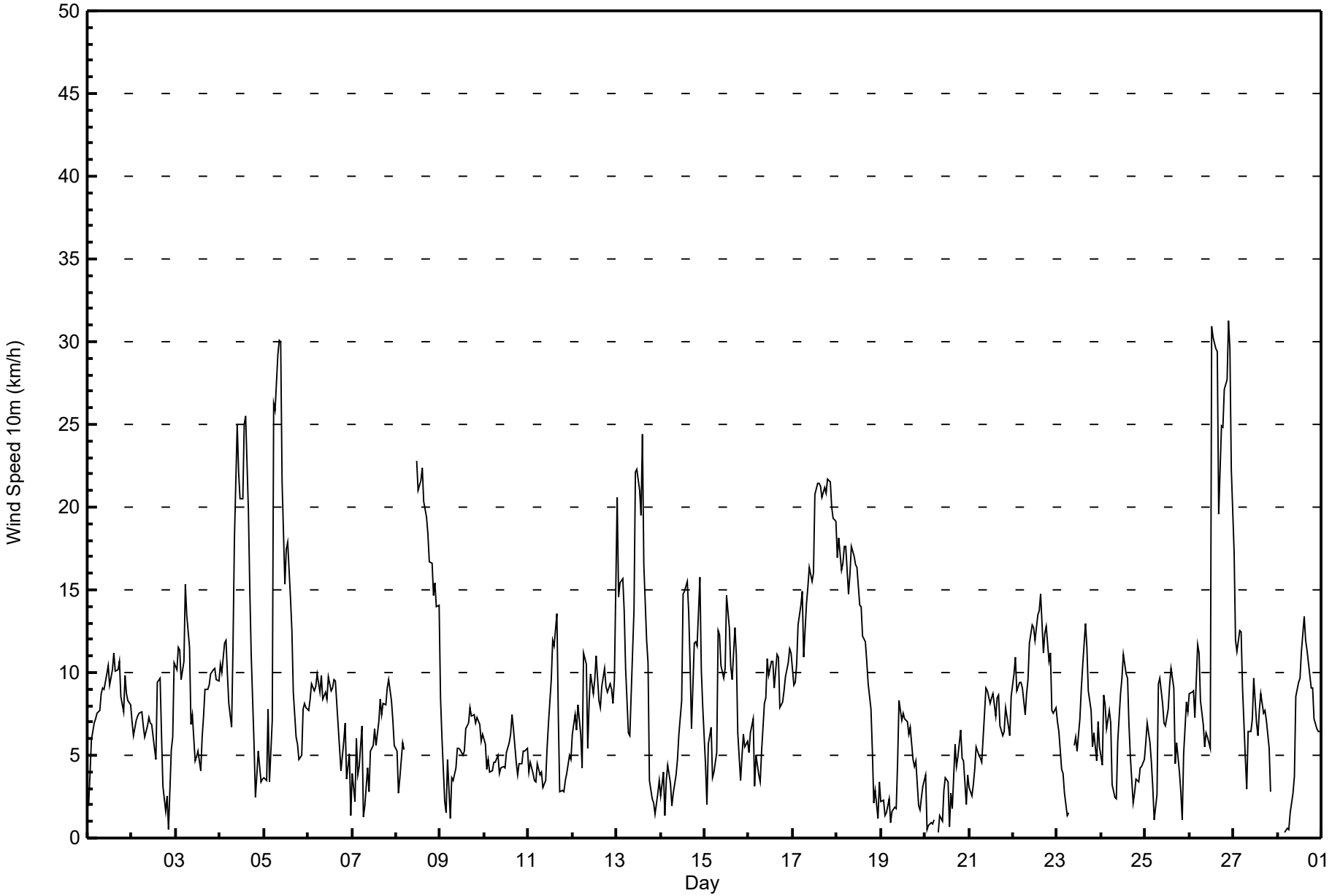
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Leismer - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	212	32.32	32.32
6 - 11	310	47.26	79.57
12 - 19	89	13.57	93.14
20 - 28	36	5.49	98.63
29 - 38	9	1.37	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 656

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Leismer - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	3	4	14	6	4	18	17	10	18	28	15	20	26	17	5	7	212
6 - 11	7	3	8	15	9	62	36	25	12	14	20	8	29	30	8	24	310
12 - 19	13	5	8	0	0	2	8	0	0	2	2	0	2	21	1	25	89
20 - 28	3	10	0	0	0	0	0	0	0	0	0	0	0	14	5	4	36
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	9
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	26	22	30	21	13	82	61	35	30	44	37	28	57	83	22	65	656

Total Number of Valid Hours: 656

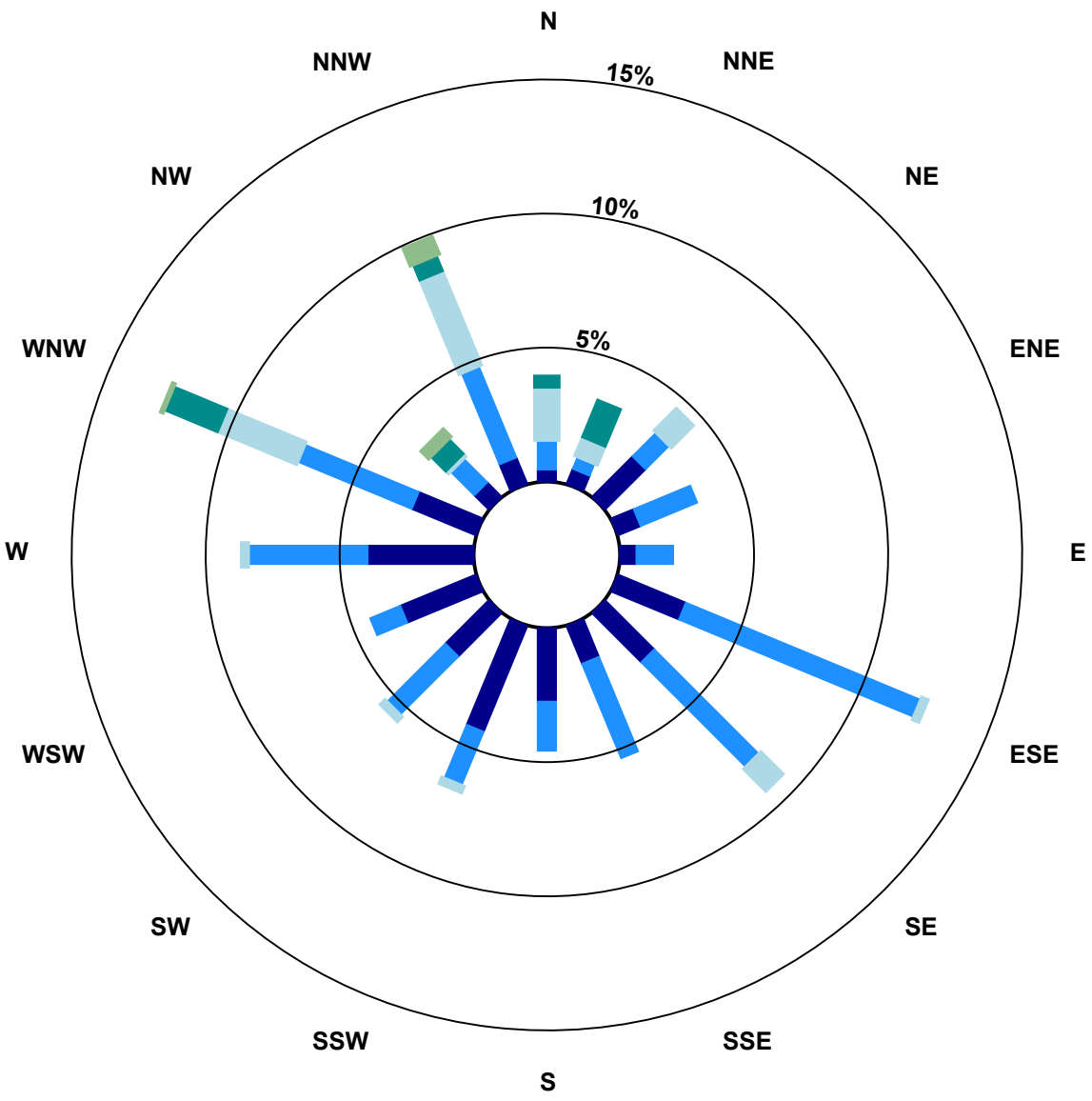
Total Number of Hours: 672

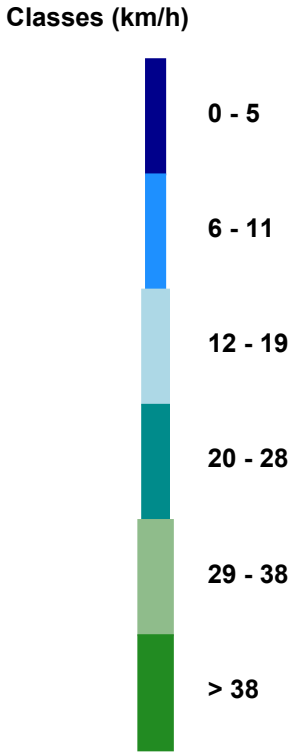
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Leismer





Total Number of Valid Hours: 656

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Leismer - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 8 km/h on Feb 26 13:00

Minimum Value: 1 km/h on Feb 11 07:00

Percentiles: $P_1 = 1$ $P_{10} = 1$ $Q_1 = 2$ Median = 2 $Q_3 = 3$ $P_{90} = 4$ $P_{99} = 6$

Hours in Service:	672
Hours of Data:	656
Hours of Missing Data:	16
Hours of Calibration:	0
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	1	2	2	1	1	3
2-Feb	1	1	1	1	1	1	1	1	2	2	3	2	2	2	3	3	2	1	1	2	1	2	3	2	3
3-Feb	2	2	3	2	3	3	2	2	3	2	2	2	2	2	2	2	2	3	2	3	3	3	2	2	3
4-Feb	3	3	3	4	3	3	2	5	4	4	4	5	5	6	5	5	3	2	2	2	2	2	1	2	6
5-Feb	1	1	3	2	4	6	5	6	6	6	5	3	5	5	2	2	2	2	2	2	2	2	2	2	6
6-Feb	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	2	1	2	2
7-Feb	1	2	1	2	2	1	2	1	1	2	1	1	1	1	2	2	2	2	2	3	2	2	2	1	3
8-Feb	1	1	2	1	2	UO	UO	UO	UO	UO	UO	5	4	5	4	4	4	4	3	3	2	3	2	3	5
9-Feb	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	2	3
10-Feb	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	2
11-Feb	1	1	1	1	1	1	1	1	1	1	1	3	4	4	5	5	4	1	2	1	2	2	1	1	5
12-Feb	2	3	2	3	3	2	2	2	2	3	3	3	3	4	3	3	3	3	2	3	3	3	3	3	4
13-Feb	5	4	4	4	4	3	3	2	3	6	5	5	5	5	6	5	4	2	2	1	2	2	1	1	6
14-Feb	1	1	2	1	1	2	2	2	1	2	3	4	4	4	4	4	4	2	2	1	2	3	2	2	4
15-Feb	2	2	3	2	1	1	2	3	3	2	2	2	2	2	2	3	3	3	3	2	2	2	2	2	3
16-Feb	1	2	2	2	2	2	1	2	2	2	3	2	3	3	3	3	3	2	3	3	3	4	4	4	4
17-Feb	4	3	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
18-Feb	4	4	4	3	3	3	3	3	4	3	3	3	3	3	2	2	2	2	1	2	1	1	2	1	4
19-Feb	1	1	1	1	1	1	1	1	1	3	3	3	3	3	3	3	3	2	1	1	1	1	1	1	3
20-Feb	1	1	1	1	1	1	UO	1	1	1	2	2	2	2	2	2	2	1	1	2	2	2	1	2	2
21-Feb	2	1	1	1	2	1	1	2	4	4	3	3	3	3	3	3	2	3	2	3	3	3	2	3	4
22-Feb	3	3	2	3	2	2	2	2	2	3	3	3	3	3	3	4	3	3	3	3	3	2	2	2	4
23-Feb	2	2	1	2	1	1	1	UO	UO	3	2	2	2	3	3	3	2	2	2	1	2	1	2	2	3
24-Feb	2	2	2	2	2	2	2	1	2	2	2	3	3	4	4	3	3	2	1	1	1	1	1	1	4
25-Feb	1	2	1	2	2	2	3	2	3	2	2	2	3	4	4	2	1	1	2	2	1	3	2	2	4
26-Feb	2	2	2	4	3	3	3	2	2	2	1	5	8	6	6	8	4	6	5	5	5	5	5	5	8
27-Feb	4	3	2	2	2	2	3	2	2	2	2	2	2	2	3	3	2	2	1	2	1	UO	UO	UO	4
28-Feb	UO	UO	UO	UO	1	1	1	1	1	2	3	4	3	5	4	4	3	3	2	3	2	2	1	1	5
	5	4	4	4	4	6	5	6	6	6	5	5	8	6	6	8	5	6	5	5	5	5	5	5	
	Diurnal Maximum																								

UO - Unstable Operation

Direction of Maximum Speed: 341 deg on Feb 26 22:00
Direction of Maximum Daily Speed Average: 30.8 deg on Feb 17

Direction of Minimum Speed: 227 deg on Feb 20 08:00

Direction of Minimum Daily Speed Average: 1.0 deg on Feb 20

Monthly Average Direction: 323.5 deg

Hours in Service:	672
Hours of Data:	656
Hours of Missing Data:	16
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	34	111	156	142	136	133	141	125	126	129	149	154	152	163	155	146	143	146	149	150	153	155	159	154	145.3
2-Feb	153	153	157	157	159	163	170	181	203	213	221	224	230	230	278	283	294	324	14	340	241	337	326	332	221.4
3-Feb	347	347	339	338	340	332	341	339	316	304	289	262	232	238	208	193	184	189	174	191	183	187	184	177	272.8
4-Feb	182	205	204	214	220	226	230	283	295	300	297	291	293	296	295	298	294	291	268	189	279	280	244	241	276.4
5-Feb	214	223	285	270	283	300	305	322	327	340	343	333	330	328	331	339	351	44	53	64	114	129	132	137	328.0
6-Feb	135	131	124	123	129	123	136	123	121	121	123	138	118	124	123	125	129	149	160	148	148	128	169	348	130.0
7-Feb	201	239	292	292	312	317	302	86	36	31	119	124	118	128	113	125	116	115	110	103	131	118	119	117	114.6
8-Feb	116	111	123	131	132	UO	UO	UO	UO	UO	UO	325	305	304	306	306	305	327	333	334	334	331	343	331	321.6
9-Feb	326	287	269	217	280	240	165	141	119	126	145	125	137	123	114	104	110	125	124	110	121	123	111	125	125.4
10-Feb	123	122	122	126	127	131	133	145	144	151	161	170	184	162	166	188	209	206	210	197	202	191	193	204	167.3
11-Feb	201	183	194	173	180	174	184	190	193	192	209	224	261	279	274	282	269	232	273	229	252	245	212	212	235.4
12-Feb	246	253	250	275	276	257	291	286	266	286	285	277	256	253	235	221	222	220	211	218	221	236	263	278	253.6
13-Feb	289	281	283	285	283	278	270	272	281	282	291	297	294	288	292	285	283	291	211	256	269	251	280	301	285.7
14-Feb	206	188	265	280	293	283	250	273	292	285	279	282	287	286	290	284	280	282	297	295	296	296	314	327	288.7
15-Feb	285	254	273	304	306	284	308	327	331	339	344	352	359	360	3	355	5	22	40	40	47	60	93	78	353.2
16-Feb	77	78	78	87	56	75	108	116	106	117	122	121	115	106	111	115	95	88	79	83	84	78	84	68	95.2
17-Feb	74	72	70	50	52	42	37	40	42	43	48	34	26	23	18	17	17	18	17	20	19	20	22	20	30.8
18-Feb	21	19	14	3	4	7	356	358	356	354	356	357	348	340	336	345	346	349	347	351	328	331	299	280	356.8
19-Feb	284	286	290	262	276	275	259	217	228	265	274	266	256	239	223	229	219	203	207	216	204	204	182	206	239.3
20-Feb	209	242	216	176	221	194	UO	227	202	273	224	205	271	273	257	344	165	142	112	106	72	79	40	73	147.1
21-Feb	53	41	33	34	41	34	42	35	62	70	77	79	45	34	59	103	112	93	72	77	93	109	102	104	71.5
22-Feb	109	110	109	104	105	107	106	103	107	120	124	127	126	138	132	126	130	126	130	126	124	127	115	116	120.2
23-Feb	126	130	114	121	114	165	166	UO	UO	301	332	292	292	289	291	300	330	321	329	321	288	296	276	273	302.0
24-Feb	269	282	284	281	279	281	256	239	245	275	290	284	281	282	271	269	259	243	181	182	176	161	161	149	265.3
25-Feb	138	122	128	132	141	135	357	346	320	306	289	276	284	280	285	288	278	286	316	16	87	105	107	103	301.0
26-Feb	108	112	115	115	112	114	114	120	123	150	154	243	302	319	321	327	337	331	341	354	353	341	343	352	344.7
27-Feb	349	346	344	345	340	346	356	342	353	13	335	336	344	344	352	344	17	4	37	46	39	UO	UO	UO	352.7
28-Feb	UO	UO	UO	UO	266	287	218	193	189	204	210	220	213	216	218	203	199	207	208	213	230	224	210	214	212.0
	72.0	95.6	21.6	359.1	359.2	337.1	327.6	345.0	346.1	331.8	307.0	298.4	301.6	301.7	299.0	302.6	309.7	334.2	17.1	39.9	56.0	18.3	54.2	38.3	
	Diurnal Average																								

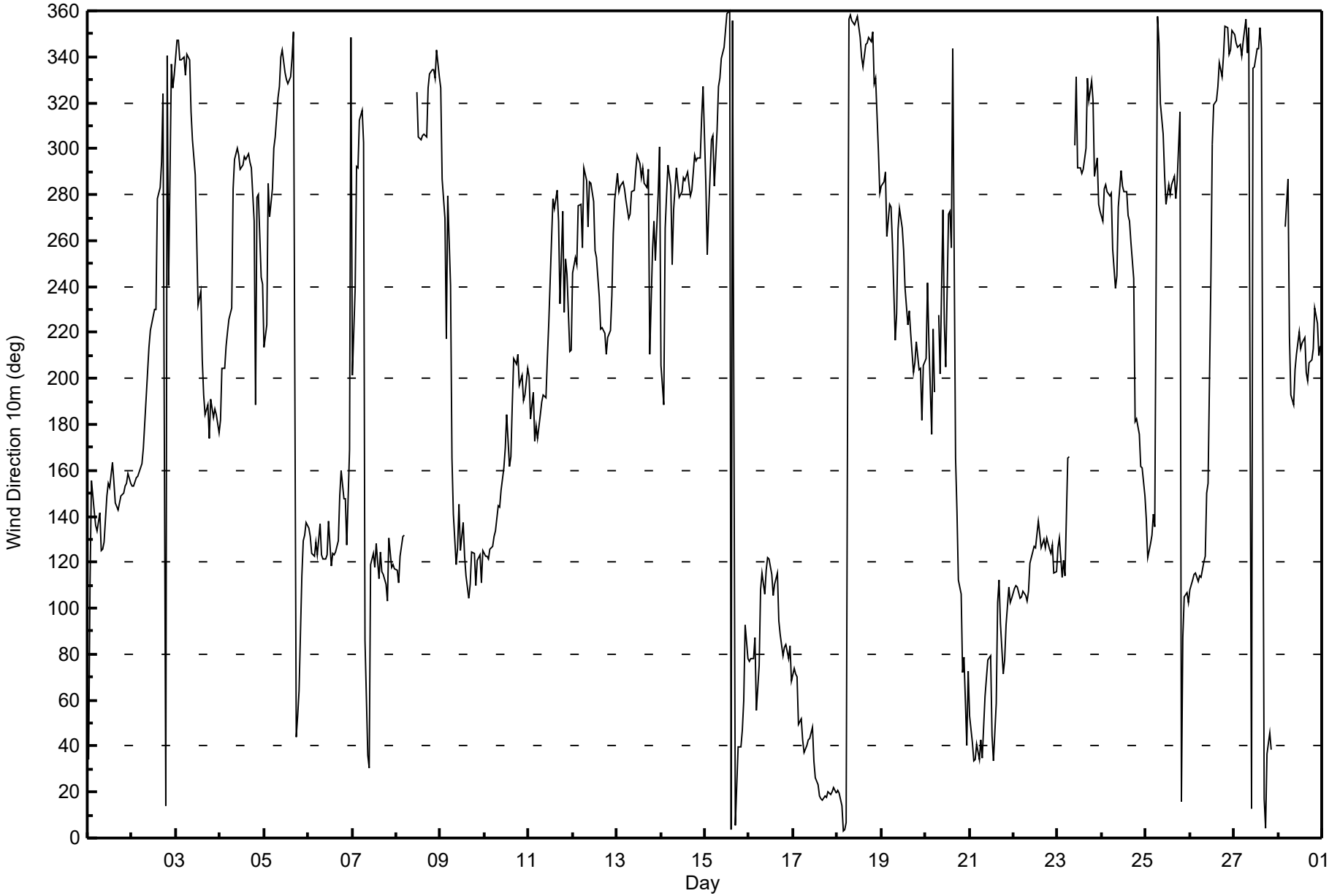
UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Leismer - February 2026



Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 106 deg on Feb 20 14:00

Minimum Value: 6 deg on Feb 14 19:00

Percentiles: P_1 = 9 P_{10} = 12 Q_1 = 15 Median = 19 Q_3 = 25 P_{90} = 36 P_{99} = 68

Hours in Service:	672
Hours of Data:	656
Hours of Missing Data:	16
Hours of Calibration:	0
Percent Operational Time:	97.6

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	49	21	17	15	17	17	16	17	14	16	15	15	16	17	13	16	15	15	14	14	14	14	12	11	49
2-Feb	12	11	11	10	10	10	13	14	17	18	28	25	31	31	26	19	17	33	24	45	54	17	23	11	54
3-Feb	14	11	12	12	13	10	11	12	29	23	40	43	40	64	28	24	17	19	14	18	17	17	16	15	64
4-Feb	17	21	19	21	23	24	37	31	10	9	10	13	14	11	12	11	10	9	40	36	43	25	35	37	43
5-Feb	16	35	29	51	20	10	10	13	12	12	14	13	20	12	12	10	22	23	27	28	23	15	16	18	51
6-Feb	17	17	16	15	15	15	17	16	17	15	16	18	15	14	12	15	16	10	18	11	12	20	13	88	88
7-Feb	17	55	13	39	30	21	75	57	17	55	32	17	17	34	23	18	20	17	18	20	19	17	16	19	75
8-Feb	18	28	19	18	26	UO	UO	UO	UO	UO	UO	12	13	11	12	12	11	12	11	10	11	10	10	10	28
9-Feb	21	21	59	60	25	56	17	26	19	27	17	15	23	23	16	20	18	18	19	20	17	17	21	25	60
10-Feb	17	19	16	20	17	18	22	19	19	17	16	16	25	19	25	22	14	10	13	12	14	10	13	15	25
11-Feb	19	17	11	18	18	10	10	12	17	14	17	29	38	28	29	21	28	43	38	63	43	47	15	18	63
12-Feb	33	33	35	27	35	41	11	13	26	16	19	35	39	35	32	26	24	23	19	22	27	31	32	24	41
13-Feb	15	18	17	14	18	23	32	33	19	20	14	13	12	17	14	19	17	10	26	39	48	44	22	26	48
14-Feb	22	15	50	24	18	29	39	43	28	23	24	19	15	20	17	21	20	18	6	7	8	9	20	19	50
15-Feb	20	34	30	21	27	25	19	12	10	15	14	17	14	15	15	19	16	14	20	17	16	19	23	23	34
16-Feb	24	19	20	45	20	34	31	20	17	18	18	24	21	26	31	24	22	24	25	26	24	25	24	26	45
17-Feb	28	27	27	21	21	20	20	18	22	20	22	19	16	17	15	15	16	17	15	17	17	16	16	17	28
18-Feb	17	15	19	18	20	20	19	19	19	18	20	21	18	18	17	16	16	15	13	15	13	12	25	15	25
19-Feb	17	17	34	31	26	43	26	17	24	32	26	31	34	41	36	37	23	15	12	13	16	18	16	15	43
20-Feb	11	56	71	80	43	52	UO	40	32	63	50	54	58	106	66	46	23	19	10	15	24	23	41	25	106
21-Feb	32	18	16	14	16	14	18	19	27	28	32	32	43	32	36	24	19	23	26	26	25	22	23	21	43
22-Feb	20	19	18	17	17	15	15	15	16	14	15	17	19	19	18	17	17	17	17	15	15	15	13	14	20
23-Feb	14	16	19	16	25	75	25	UO	UO	39	27	24	23	18	18	18	13	14	14	19	19	27	16	19	75
24-Feb	23	14	12	14	15	15	28	23	26	23	15	23	21	27	31	35	35	24	17	14	16	11	13	20	35
25-Feb	14	13	14	17	20	64	38	22	26	22	18	27	31	28	29	15	24	12	33	17	49	18	17	19	64
26-Feb	16	19	16	70	17	19	25	25	36	24	16	46	17	13	14	14	15	14	12	19	18	10	12	16	70
27-Feb	14	14	15	14	11	16	15	20	14	28	20	17	25	23	24	25	24	20	8	14	10	UO	UO	UO	28
28-Feb	UO	UO	UO	UO	42	38	33	16	20	25	23	28	31	28	25	25	19	17	15	17	25	23	13	13	42
	49	56	71	80	43	75	75	57	36	63	50	54	58	106	66	46	35	43	40	63	54	47	41	88	
	Diurnal Maximum																								

UO - Unstable Operation

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS505
SAWBONES BAY
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - SAWBONES BAY (AMS505)
FEBRUARY 2026

MONTHLY SUMMARY for
AMD SECTION III.B.1(c)

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	641	31	31	100	39.3	0	9.5	0
H2S (ppb) Average	639	33	33	100	2.8	0	1	0
NO2 (ppb) Average	639	33	33	100	34.2	0	14.8	-
NO (ppb) Average	639	33	33	100	32.7	-	8.4	-
NOX (ppb) Average	639	33	33	100	66.1	-	22	-
Temperature 2 m (C) Average	672	0	0	100	8.8	-	3.5	-
Relative Humidity (%) Average	672	0	0	100	96.9	-	92.4	-
Wind Speed 10 m (km/h) Average	672	0	0	100	28	-	20	-
Wind Direction 10 m (deg) Average	672	0	0	100	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - SAWBONES BAY (AMS505)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	641	1.9	5	-	0	0	0.2	0.4	1.2	3.4	39.3
H2S (ppb) Average	639	0.24	0.4	-	0	0	0.1	0.1	0.2	0.4	2.8
NO2 (ppb) Average	639	4.96	5.3	-	0	0.5	1.3	3.4	6.8	11.5	34.2
NO (ppb) Average	639	1.9	3.6	-	0	0	0	0.3	2.4	5.6	32.7
NOX (ppb) Average	639	6.85	8.3	-	0	0.5	1.4	4	8.7	17.1	66.1
Temperature 2 m (C) Average	672	-12.19	10.4	-	-38.8	-27.5	-20.2	-9.8	-3.8	0.4	8.8
Relative Humidity (%) Average	672	75.15	13.3	-	31.2	56.5	67.7	75.5	86.5	91.6	96.9
Wind Speed 10 m (km/h) Average	672	9.6	5	-	0	4	6	8	12	16	28
Wind Direction 10 m (deg) Average	672	282.3	0	-	0	-	-	-	-	-	0

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - SAWBONES BAY (AMS505)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
				No operational issues to report

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Sawbones Bay - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 39.3 ppb on Feb 13 09:00
Maximum Daily Average: 9.5 ppb on Feb 13

Minimum Value: 0.0 ppb on Feb 1 21:00
Minimum Daily Average: 0.0 ppb on Feb 17
Maximum Diurnal Average: 3.7 ppb at hour 9
Minimum Diurnal Average: 0.6 ppb at hour 4
Monthly Average: 1.90 ppb
Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.2 Median = 0.4 Q_3 = 1.2 P_{90} = 3.4 P_{99} = 29.7

Hours in Service:	672
Hours of Data:	641
Hours of Missing Data:	31
Hours of Calibration:	31
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.5	Z	0.3	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.5
2-Feb	0.1	0.1	Z	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.4	1.6	0.6	0.4	0.5	0.4	6.2	2.2	0.2	0.0	0.0	0.0	0.7	6.2
3-Feb	0.0	0.1	2.1	Z	3.0	4.7	4.4	3.1	2.3	2.2	1.8	1.5	1.1	2.5	2.1	1.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.3	1.5	4.7
4-Feb	0.2	0.3	0.4	0.4	Z	0.5	1.0	1.7	1.9	3.4	17.0	25.0	15.1	6.5	1.1	0.3	0.5	10.5	14.0	16.5	31.7	26.0	31.7	1.1	9.0	31.7
5-Feb	1.2	1.1	1.1	1.4	3.9	Z	0.3	0.1	0.2	0.2	0.1	0.1	0.3	0.4	0.4	0.6	0.8	0.7	0.9	1.7	2.4	3.1	3.3	3.8	1.2	3.9
6-Feb	Z	2.7	1.8	0.9	0.5	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.3	0.4	0.3	0.1	0.2	0.4	0.4	0.3	0.2	0.4	2.7
7-Feb	0.0	Z	0.4	0.5	0.5	0.4	0.6	0.1	0.1	1.3	2.9	2.8	2.0	1.6	1.9	1.0	0.4	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.7	2.9
8-Feb	0.0	0.1	Z	0.1	0.1	0.1	0.3	0.2	0.3	0.3	1.5	8.8	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.6	8.8
9-Feb	1.4	1.5	1.3	Z	0.9	0.6	0.6	0.4	0.4	0.4	0.3	0.4	1.1	1.2	0.9	0.4	0.5	0.7	0.7	0.6	0.4	0.4	0.3	0.3	0.7	1.5
10-Feb	0.3	0.2	0.2	0.2	Z	0.3	0.3	0.2	0.2	0.1	0.3	0.6	0.7	0.7	0.6	0.6	0.6	0.4	0.3	0.3	0.6	0.8	0.9	0.9	0.4	0.9
11-Feb	1.3	1.9	2.3	1.8	1.4	Z	1.5	1.3	1.2	1.1	0.7	1.4	2.2	2.6	1.1	6.4	0.4	0.5	1.1	1.8	1.5	1.1	1.4	2.0	1.7	6.4
12-Feb	Z	2.6	1.6	1.8	2.3	4.4	4.6	6.7	28.1	32.2	21.6	3.6	1.0	1.0	1.7	1.8	0.7	0.5	0.5	1.0	1.3	3.1	2.7	1.4	5.5	32.2
13-Feb	0.8	Z	0.6	0.5	16.7	24.1	17.8	34.1	39.3	29.5	8.6	4.7	8.0	6.0	2.4	13.7	2.8	3.0	0.4	1.7	0.9	0.6	0.6	0.7	9.5	39.3
14-Feb	1.2	0.8	Z	0.8	0.8	0.7	0.8	0.4	0.6	0.8	3.1	11.9	9.4	7.0	5.2	8.1	0.8	0.1	1.6	6.6	29.9	30.9	17.2	0.8	6.1	30.9
15-Feb	2.9	0.8	3.4	Z	0.5	0.2	0.2	0.2	0.1	3.3	3.6	2.1	1.1	1.0	0.9	0.5	0.5	1.1	0.8	1.0	2.2	5.3	3.7	2.5	1.6	5.3
16-Feb	2.1	1.2	0.6	0.3	Z	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.1
17-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	Z	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.7	0.3	0.7
19-Feb	1.2	Z	1.3	0.8	0.6	1.0	0.9	0.5	0.6	0.7	0.6	0.5	0.8	0.9	0.9	0.9	0.7	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.6	1.3
20-Feb	0.2	0.4	Z	0.5	0.4	0.4	0.5	0.4	0.4	0.4	4.5	9.4	8.3	6.9	6.1	6.2	4.7	5.3	2.0	0.8	0.6	0.5	0.3	0.3	2.6	9.4
21-Feb	0.2	0.6	1.0	Z	0.7	0.5	0.4	0.5	0.5	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.3	1.0
22-Feb	0.1	0.0	0.0	0.1	Z	0.1	0.1	0.3	0.3	0.3	0.3	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.3
23-Feb	0.0	0.1	0.1	0.1	0.2	Z	0.3	0.3	1.0	1.6	0.2	0.3	1.1	0.7	0.3	0.3	0.5	0.5	0.3	0.3	0.1	0.2	0.2	0.2	0.4	1.6
24-Feb	Z	22.7	19.4	0.9	0.6	0.4	1.1	27.5	23.3	9.5	7.3	0.9	2.5	0.7	3.2	1.0	1.9	0.4	0.4	0.4	0.4	0.4	0.3	0.2	5.4	27.5
25-Feb	0.2	Z	0.9	1.6	1.3	1.1	1.2	1.0	0.5	2.9	0.8	C	C	C	2.6	0.6	1.2	1.1	0.7	0.4	0.3	0.2	0.1	0.1	0.9	2.9
26-Feb	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	4.6	3.8	0.4	0.9	1.2	2.4	3.2	4.3	2.2	0.4	0.4	0.5	1.1	4.6
27-Feb	0.3	0.5	0.4	Z	0.4	0.5	0.5	0.4	0.3	0.4	0.4	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.6	0.6	0.7	0.4	0.7
28-Feb	0.6	0.2	0.4	0.2	Z	0.2	0.2	0.2	0.3	1.8	3.0	1.4	2.0	1.2	0.5	0.9	0.8	0.5	0.3	0.6	1.1	1.2	1.0	0.8	0.8	3.0
	0.7	1.7	1.7	0.6	1.5	1.7	1.4	2.9	3.7	3.3	2.8	2.9	2.3	1.8	1.2	1.7	0.8	1.1	1.3	1.5	2.8	2.7	2.4	0.6	Diurnal Average	
	2.9	22.7	19.4	1.8	16.7	24.1	17.8	34.1	39.3	32.2	21.6	25.0	15.1	7.0	6.1	13.7	4.7	10.5	14.0	16.5	31.7	30.9	31.7	3.8	Diurnal Maximum	

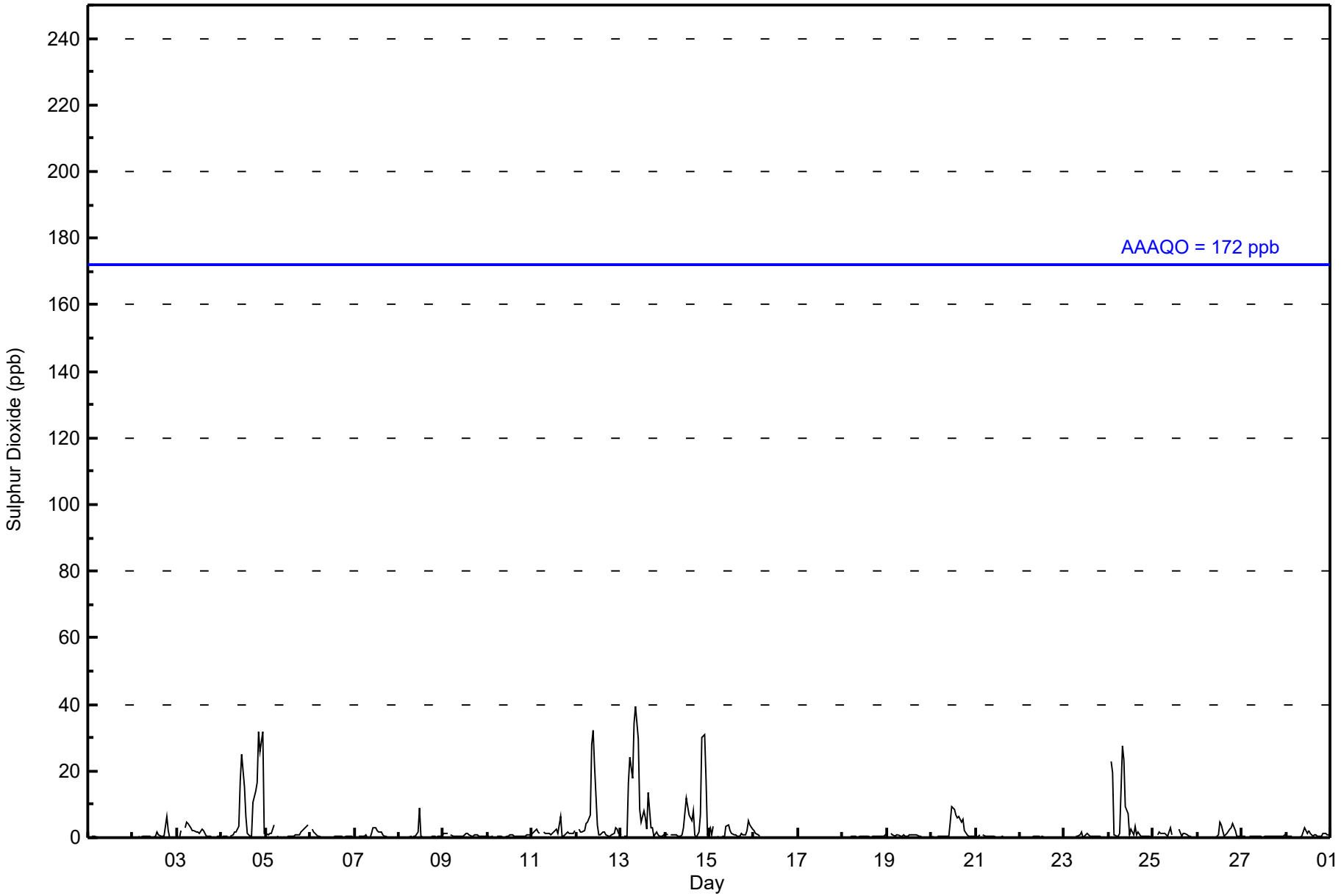
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Sawbones Bay - February 2026



Sulphur Dioxide (SO_2) - ppb
Sawbones Bay - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	614	95.79	95.79
11 - 20	11	1.72	97.50
21 - 60	16	2.50	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 641

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Sawbones Bay - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	50	76	52	22	25	26	29	28	75	60	44	11	21	45	13	37	614
11 - 20	0	0	0	0	0	0	0	0	0	0	0	5	6	0	0	0	11
21 - 60	0	0	0	0	0	0	0	0	0	0	0	6	10	0	0	0	16
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	50	76	52	22	25	26	29	28	75	60	44	22	37	45	13	37	641

Total Number of Valid Hours: 641

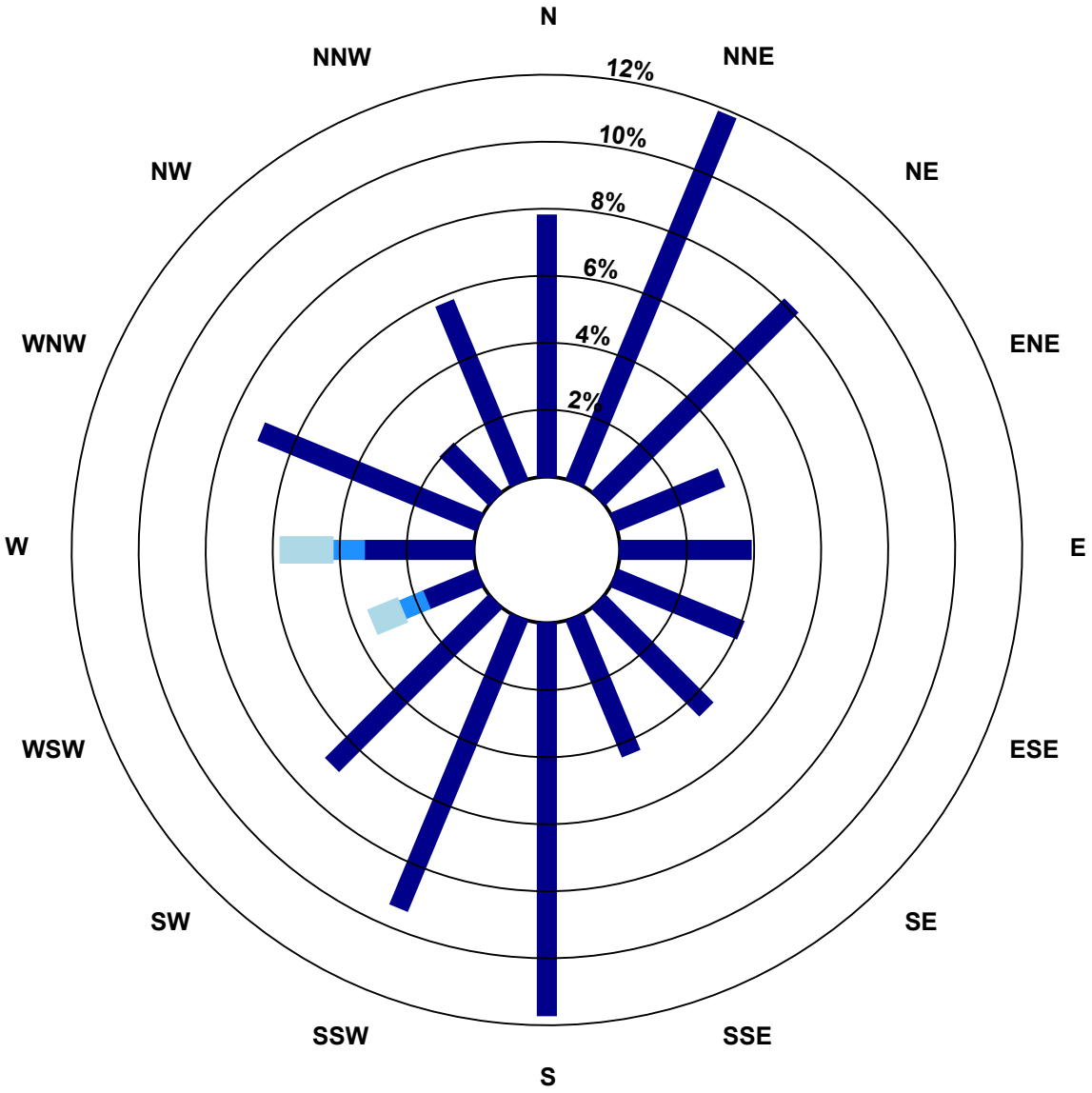
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Sawbones Bay



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

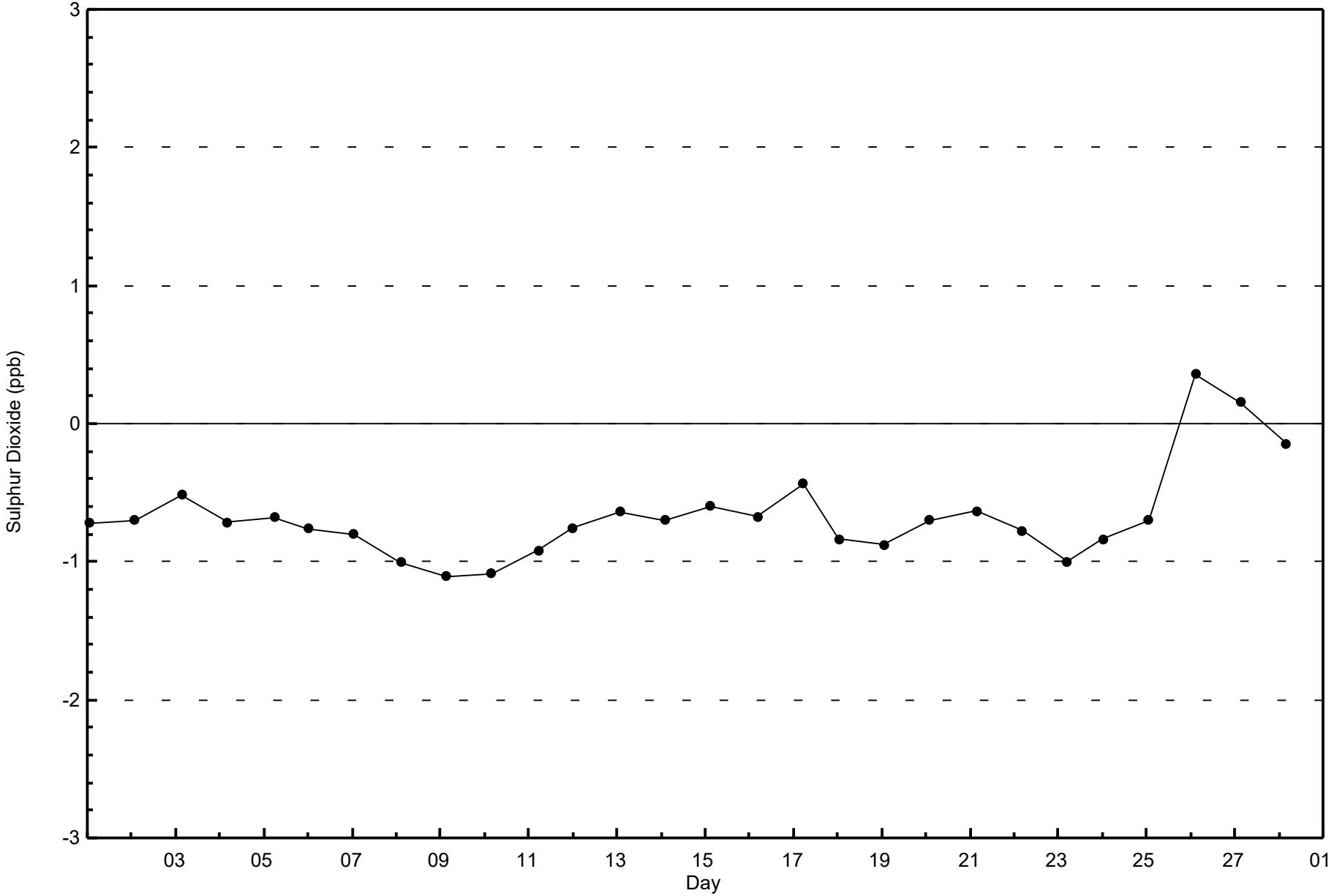
Total Number of Valid Hours: 641

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Sawbones Bay - February 2026

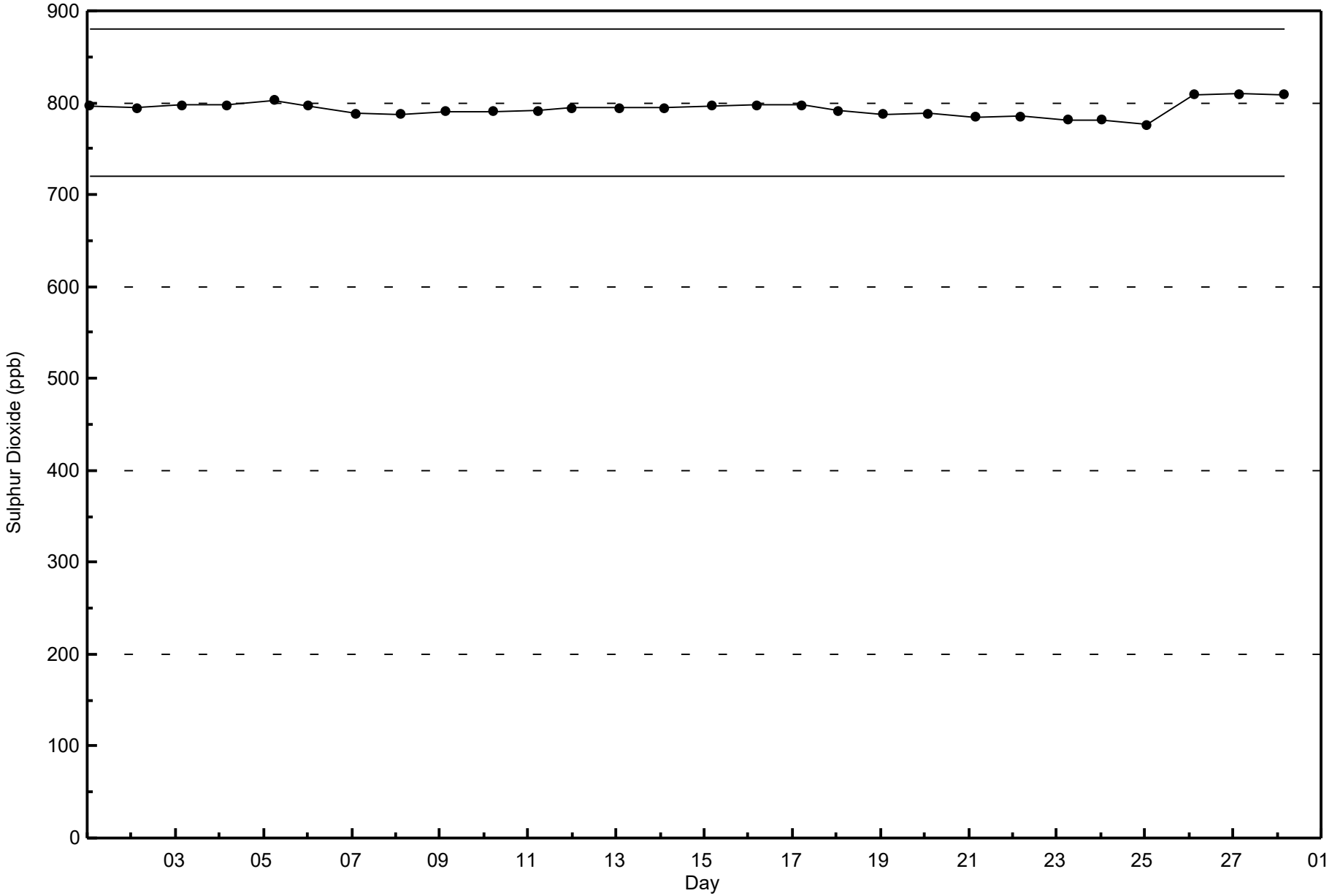


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Sawbones Bay - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H2S) - ppb

Sawbones Bay - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 2.8 ppb on Feb 13 07:00

Maximum Daily Average: 1.0 ppb on Feb 13

Minimum Value: 0.0 ppb on Feb 22 03:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 0.4 ppb at hour 12

Minimum Diurnal Average: 0.1 ppb at hour 24

Monthly Average: 0.24 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.1 Q_3 = 0.2 P_{90} = 0.4 P_{99} = 2.1

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
2-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.7	0.5	0.2	0.1	0.1	0.1	0.2	0.7
3-Feb	0.1	0.1	0.2	0.3	Z	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
4-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.2	0.2	0.6	1.5	2.1	1.4	1.0	0.8	0.1	0.7	1.7	1.8	1.5	2.4	1.4	1.7	0.1	0.9	2.4
5-Feb	Z	0.1	0.1	0.1	1.3	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	1.3
6-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2
7-Feb	0.1	0.7	Z	0.2	0.2	0.2	1.0	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.0
8-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.3	0.3	0.3	0.2	0.3	1.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	1.5
9-Feb	0.4	0.3	0.3	0.3	Z	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.4
10-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
11-Feb	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.2	0.3	0.1	0.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8
12-Feb	0.1	Z	0.1	0.1	0.2	0.6	0.5	0.4	1.2	1.7	1.7	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.4	1.7
13-Feb	0.1	0.1	Z	0.1	0.8	2.1	2.8	2.2	2.1	2.0	1.4	1.1	1.2	1.4	1.1	2.4	1.2	0.4	0.1	0.2	0.2	0.2	0.2	0.2	1.0	2.8
14-Feb	0.2	0.2	0.2	Z	0.1	0.1	0.2	0.3	0.2	0.2	0.2	1.5	1.5	1.3	1.0	1.3	0.4	0.0	0.6	1.7	1.8	2.5	1.0	0.2	0.7	2.5
15-Feb	0.3	0.1	0.6	0.9	Z	0.1	0.1	0.1	0.1	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.9
16-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
17-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1
19-Feb	0.4	0.3	Z	0.3	0.1	0.2	0.4	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
20-Feb	0.1	0.1	0.1	Z	0.2	0.2	0.4	0.3	0.2	0.3	0.8	0.6	0.3	0.4	0.2	0.5	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.8
21-Feb	0.1	0.1	0.2	0.2	Z	0.2	0.2	0.3	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	0.0	0.0	0.1	0.3
22-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1
23-Feb	Z	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
24-Feb	0.1	Z	1.0	0.3	0.3	0.2	0.2	1.2	2.1	0.8	C	C	C	C	C	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.4	2.1
25-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.2	0.1	0.4	0.2	0.8	0.4	0.1	0.1	0.1	0.4	1.2	0.3	0.1	0.1	0.1	0.1	0.1	0.2	1.2
26-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.9	0.5	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.0	0.0	0.2	0.9
27-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1
28-Feb	0.2	0.3	0.3	0.3	0.2	Z	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.4
	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	Diurnal Average	
	0.4	0.7	1.0	0.9	1.3	2.1	2.8	2.2	2.1	2.0	1.7	2.1	1.5	1.4	1.1	2.4	1.2	1.7	1.8	1.7	2.4	2.5	1.7	0.3	Diurnal Maximum	

Z - zerospan C - Calibration

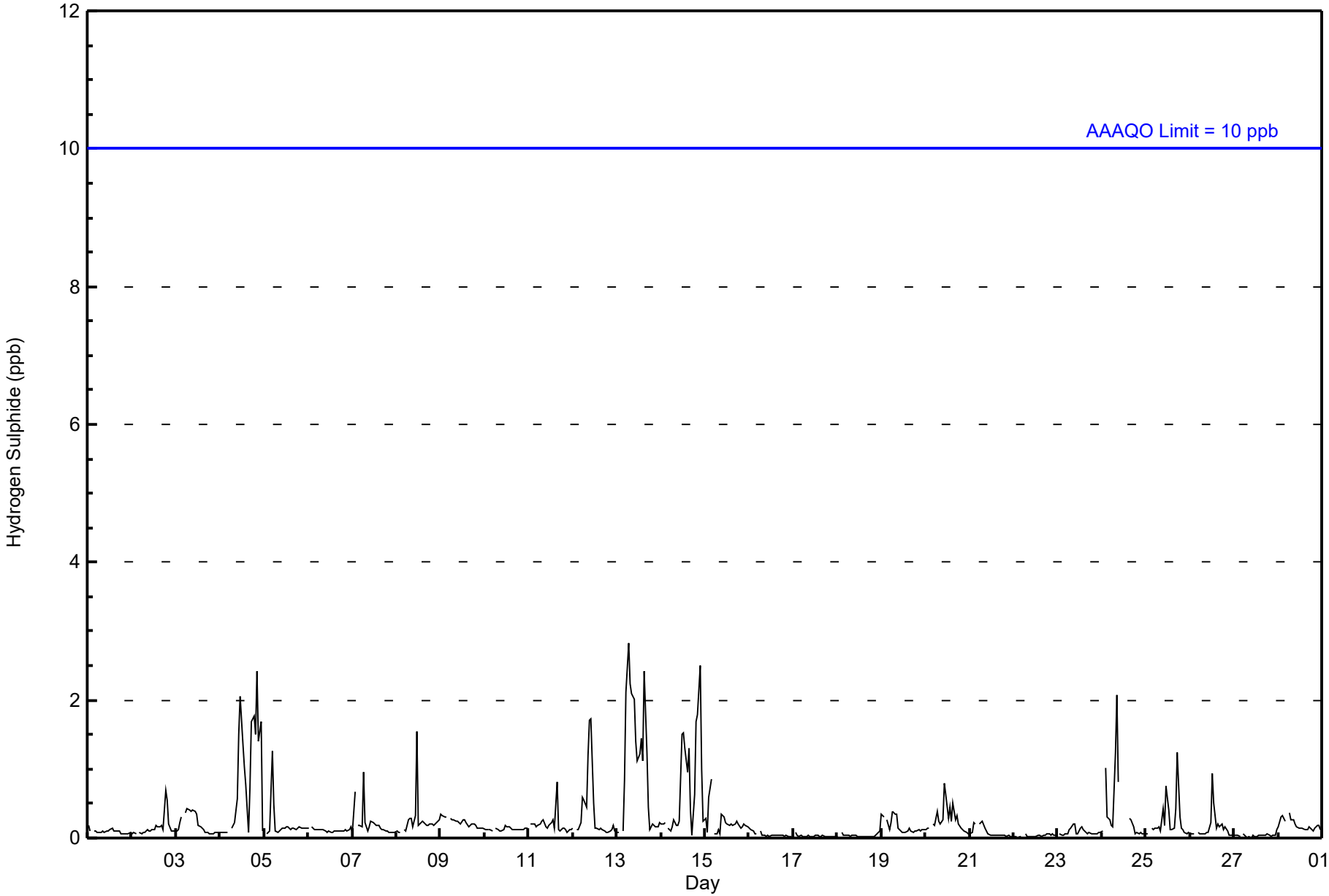
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H2S) - ppb

Sawbones Bay - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	637	99.69	99.69
3 - 4	2	0.31	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H2S) - ppb

Sawbones Bay - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	50	77	52	21	27	24	28	27	76	61	41	21	35	47	12	38	637
3 - 4	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	50	77	52	21	27	24	28	27	76	61	41	22	36	47	12	38	639

Total Number of Valid Hours: 639

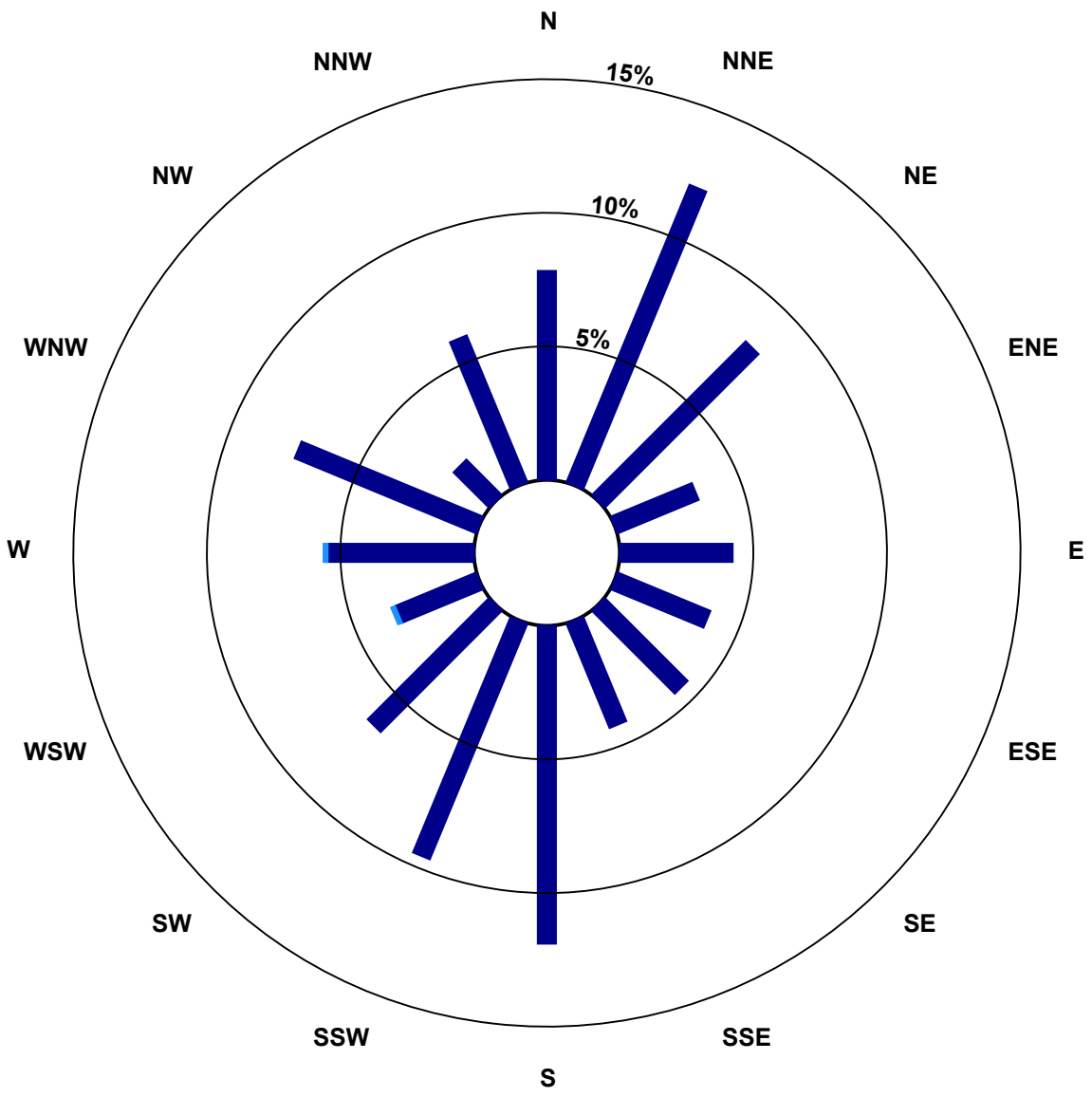
Total Number of Hours: 672

Wood Buffalo Environmental Association

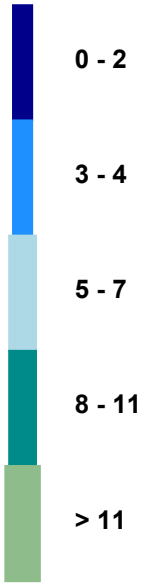
Wind Rose Feb 2026

Hydrogen Sulphide (H2S) - ppb

Sawbones Bay



Classes (ppb)



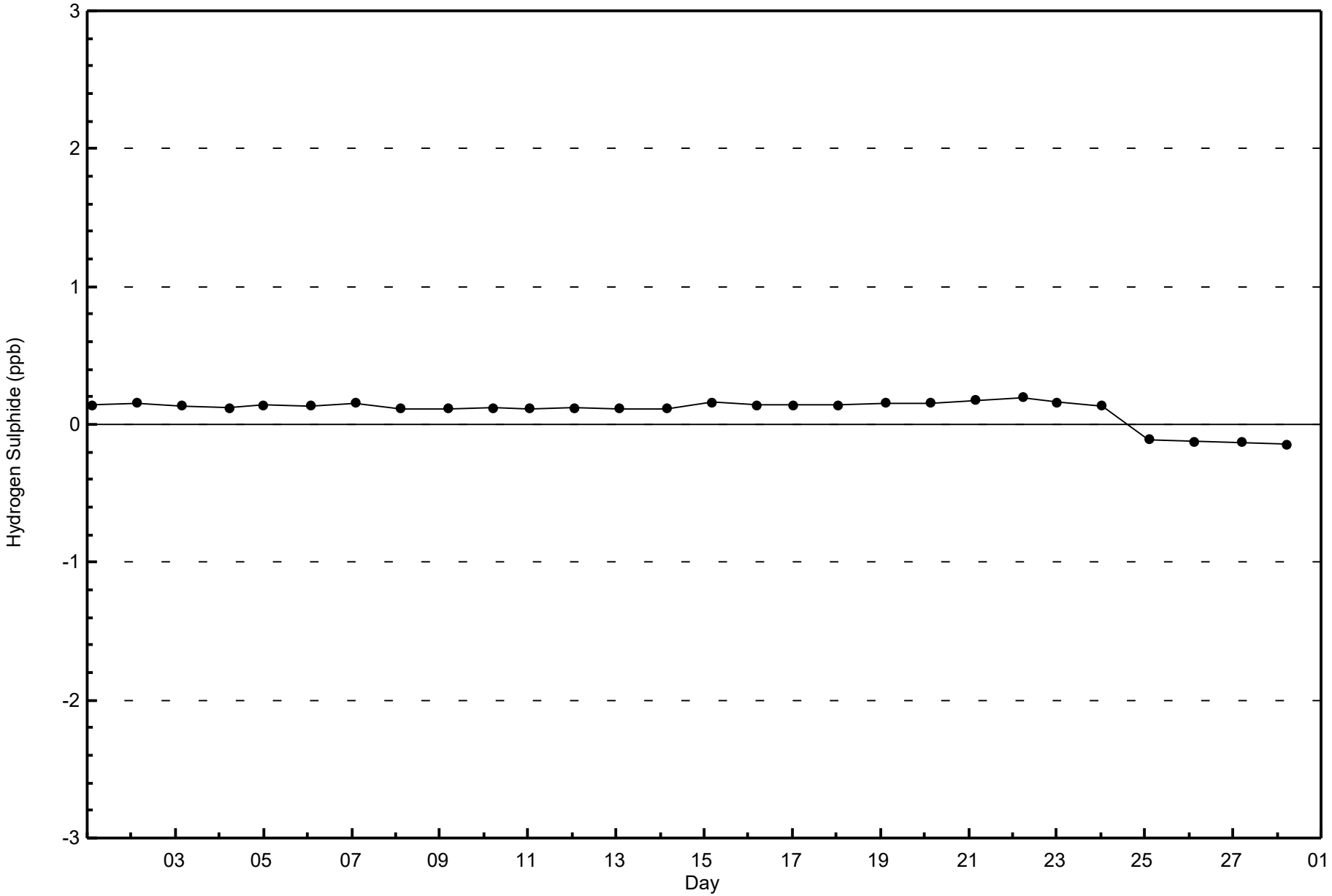
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H2S) - ppb

Sawbones Bay - February 2026

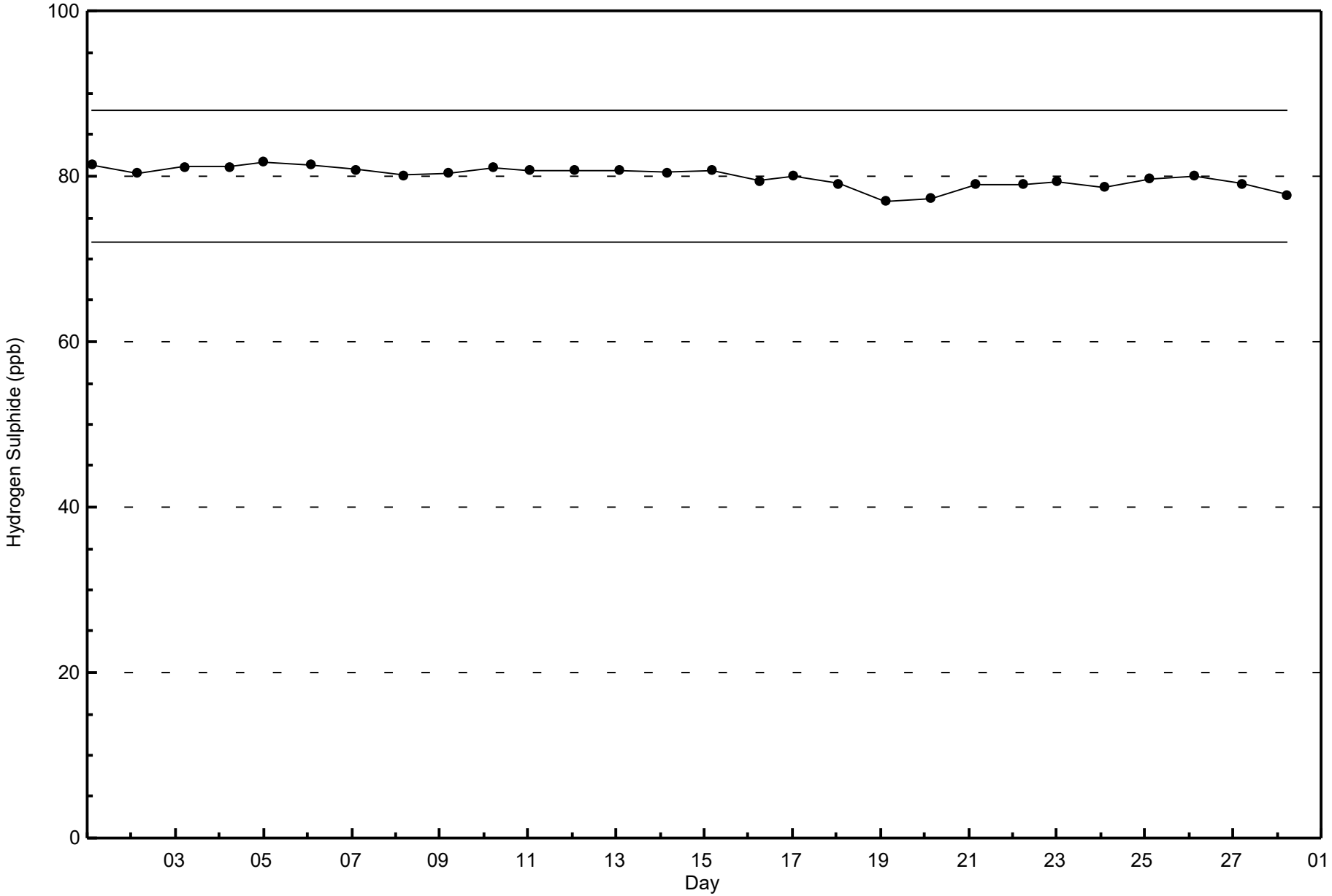


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H2S) - ppb

Sawbones Bay - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Sawbones Bay - February 2026

Maximum Value: 32.7 ppb on Feb 20 07:00

Maximum Daily Average: 8.4 ppb on Feb 19

Minimum Value: 0.0 ppb on Feb 1 19:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 4.5 ppb at hour 9

Minimum Diurnal Average: 0.5 ppb at hour 1

Monthly Average: 1.90 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.3 Q_3 = 2.4 P_{90} = 5.6 P_{99} = 16.9

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	0.0	0.1	0.1	0.0	Z	0.1	0.1	0.2	0.2	2.4	5.5	6.6	9.7	2.8	2.7	1.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	1.5	9.7
2-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.8	7.4	0.3	0.5	3.2	1.7	4.1	3.1	2.5	3.1	3.0	2.9	0.9	0.1	0.1	0.1	0.1	1.5	7.4
3-Feb	0.1	Z	0.0	0.0	0.1	0.0	0.1	0.2	0.4	1.3	1.7	1.6	2.5	3.5	1.6	1.3	0.4	1.4	0.8	0.0	0.0	0.0	0.1	0.0	0.7	3.5
4-Feb	0.0	0.1	Z	0.4	1.5	1.3	2.5	2.1	3.5	6.1	9.8	8.5	6.6	3.3	0.7	0.3	0.2	5.2	4.3	5.3	8.0	6.4	7.4	2.1	3.7	9.8
5-Feb	0.9	2.0	0.6	Z	2.0	2.3	0.1	0.1	0.1	0.1	0.3	0.3	0.7	0.6	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.3
6-Feb	0.0	0.1	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
7-Feb	0.0	0.1	1.1	0.3	0.2	Z	0.6	1.3	0.2	0.7	1.5	1.7	1.2	0.9	0.7	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1.7
8-Feb	Z	0.1	0.0	0.1	0.1	0.1	0.5	0.5	0.4	2.9	3.0	11.3	1.1	1.6	5.2	3.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	11.3
9-Feb	0.0	Z	0.0	0.0	0.1	0.0	0.1	0.0	0.8	2.9	1.9	1.0	1.2	1.2	0.7	0.2	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5	2.9
10-Feb	0.0	0.1	Z	0.1	0.0	0.1	0.1	0.0	0.1	0.6	2.8	11.9	6.9	6.5	2.2	2.5	1.3	0.6	0.2	0.1	0.3	0.2	0.8	0.2	1.6	11.9
11-Feb	0.9	1.4	1.7	Z	0.9	2.1	2.0	6.0	4.7	5.5	3.5	5.1	7.0	7.0	3.0	3.9	2.3	1.8	2.7	1.4	0.5	0.4	1.0	1.3	2.9	7.0
12-Feb	1.4	1.7	1.2	1.1	Z	2.4	2.0	8.3	14.3	10.4	5.7	3.9	2.1	2.3	1.6	3.0	2.3	1.5	1.1	0.8	0.7	0.3	1.1	0.3	3.0	14.3
13-Feb	0.2	0.2	0.4	1.1	2.7	Z	2.5	5.5	7.3	6.5	2.5	1.6	2.7	2.4	1.2	2.7	0.7	0.7	0.5	1.5	1.4	1.6	0.2	1.1	2.1	7.3
14-Feb	Z	0.1	0.1	0.2	0.1	0.1	7.8	17.2	10.9	8.4	3.5	6.8	4.4	3.2	3.0	2.8	0.4	0.1	0.3	1.1	5.4	5.2	3.6	0.1	3.7	17.2
15-Feb	0.7	Z	0.7	0.2	0.1	0.0	0.1	0.6	0.5	3.8	4.3	2.9	2.1	1.1	1.1	0.6	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.9	4.3
16-Feb	0.1	0.0	Z	0.0	0.0	0.0	0.1	0.7	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
17-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.3	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.1	0.0	0.0	0.0	0.0	1.6	2.2	0.3	2.2
19-Feb	3.1	15.1	18.3	13.1	3.1	Z	22.9	22.7	31.1	4.9	3.2	4.6	4.6	5.5	5.9	9.7	2.1	2.3	2.6	1.3	3.2	4.6	5.0	3.7	8.4	31.1
20-Feb	Z	2.1	2.6	3.9	4.6	10.0	32.7	13.6	11.3	8.2	8.4	14.9	11.9	8.2	6.0	5.0	2.2	0.8	0.1	0.1	0.2	0.1	0.0	0.0	6.4	32.7
21-Feb	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.8	3.8	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.8
22-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0
23-Feb	0.0	0.0	0.0	Z	1.6	0.3	4.8	7.2	3.5	1.4	C	C	C	C	C	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	7.2
24-Feb	0.1	4.2	4.2	0.5	Z	0.3	0.1	6.4	8.5	4.5	6.3	3.0	2.9	2.1	2.6	2.2	1.4	1.2	0.6	0.1	0.0	0.1	0.1	0.1	2.2	8.5
25-Feb	0.0	0.0	0.1	0.0	0.1	Z	0.2	0.3	0.5	3.1	2.5	4.8	4.1	3.8	3.2	4.0	4.6	0.6	0.1	0.7	0.9	0.2	0.0	0.1	1.5	4.8
26-Feb	Z	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.8	3.5	2.0	1.0	1.1	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.5
27-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.7	0.6	0.6	0.6	0.6	0.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	6.9	0.5	6.9
28-Feb	3.3	10.4	Z	8.4	5.1	16.3	8.5	9.8	18.4	13.0	6.5	3.5	3.4	3.8	4.6	3.1	5.9	8.8	6.0	3.6	4.6	8.4	9.3	1.0	7.2	18.4
	0.5	1.6	1.4	1.2	0.9	1.5	3.1	3.7	4.5	3.2	2.7	3.7	3.0	2.8	1.9	1.9	1.1	1.1	0.8	0.6	0.9	1.0	1.1	0.7	Diurnal Average	
	3.3	15.1	18.3	13.1	5.1	16.3	32.7	22.7	31.1	13.0	9.8	14.9	11.9	9.7	6.0	9.7	5.9	8.8	6.0	5.3	8.0	8.4	9.3	6.9	Diurnal Maximum	

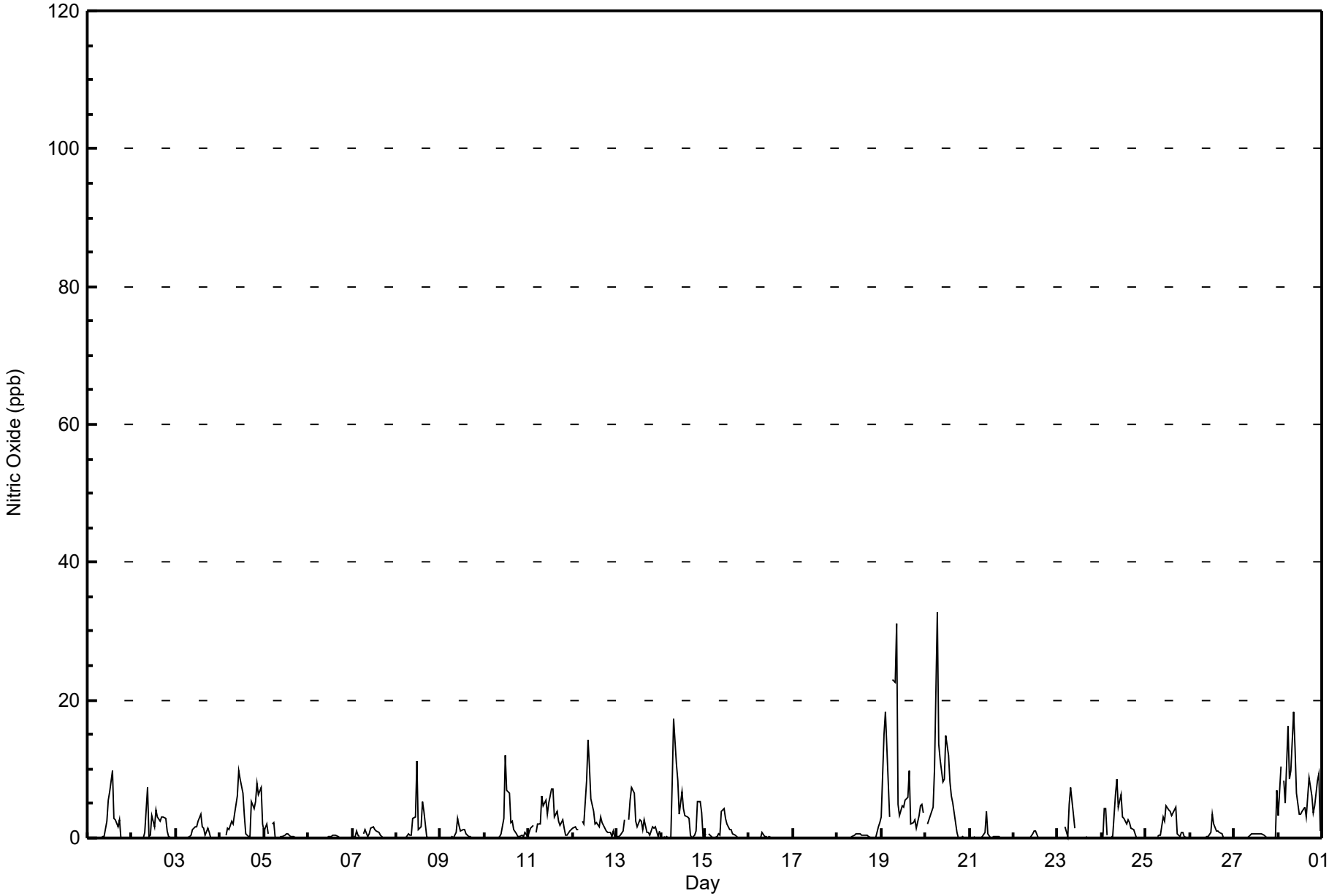
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Sawbones Bay - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Nitric Oxide (NO) - ppb

Sawbones Bay - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	635	99.37	99.37
21 - 40	4	0.63	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	50	75	51	22	27	26	29	28	72	58	45	23	37	44	11	37	635
21 - 40	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	4
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	50	75	51	22	27	26	29	28	75	59	45	23	37	44	11	37	639

Total Number of Valid Hours: 639

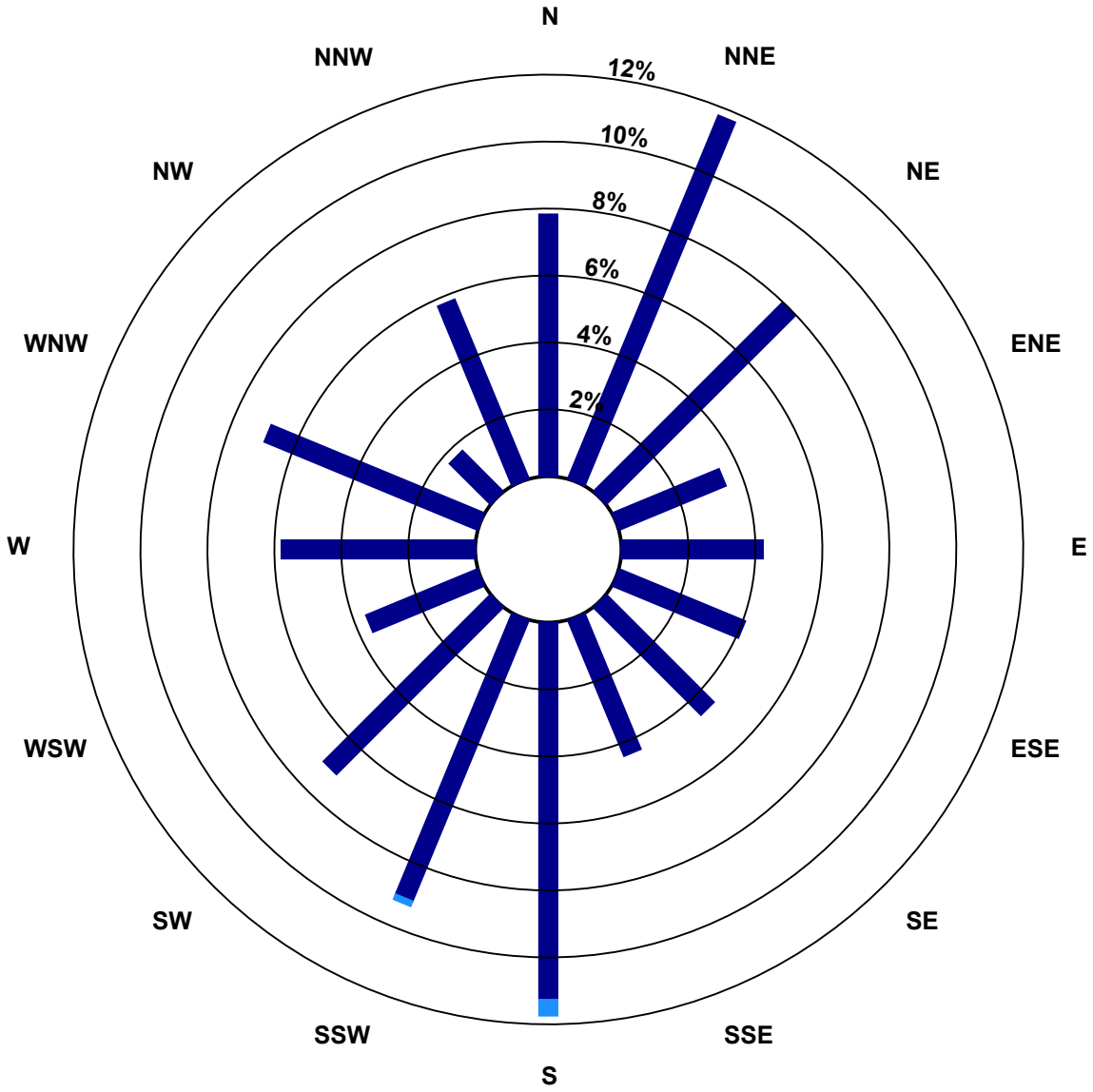
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Sawbones Bay



Classes (ppb)

- 0 - 20
- 21 - 40
- 11 - 80
- 81 - 159
- > 159

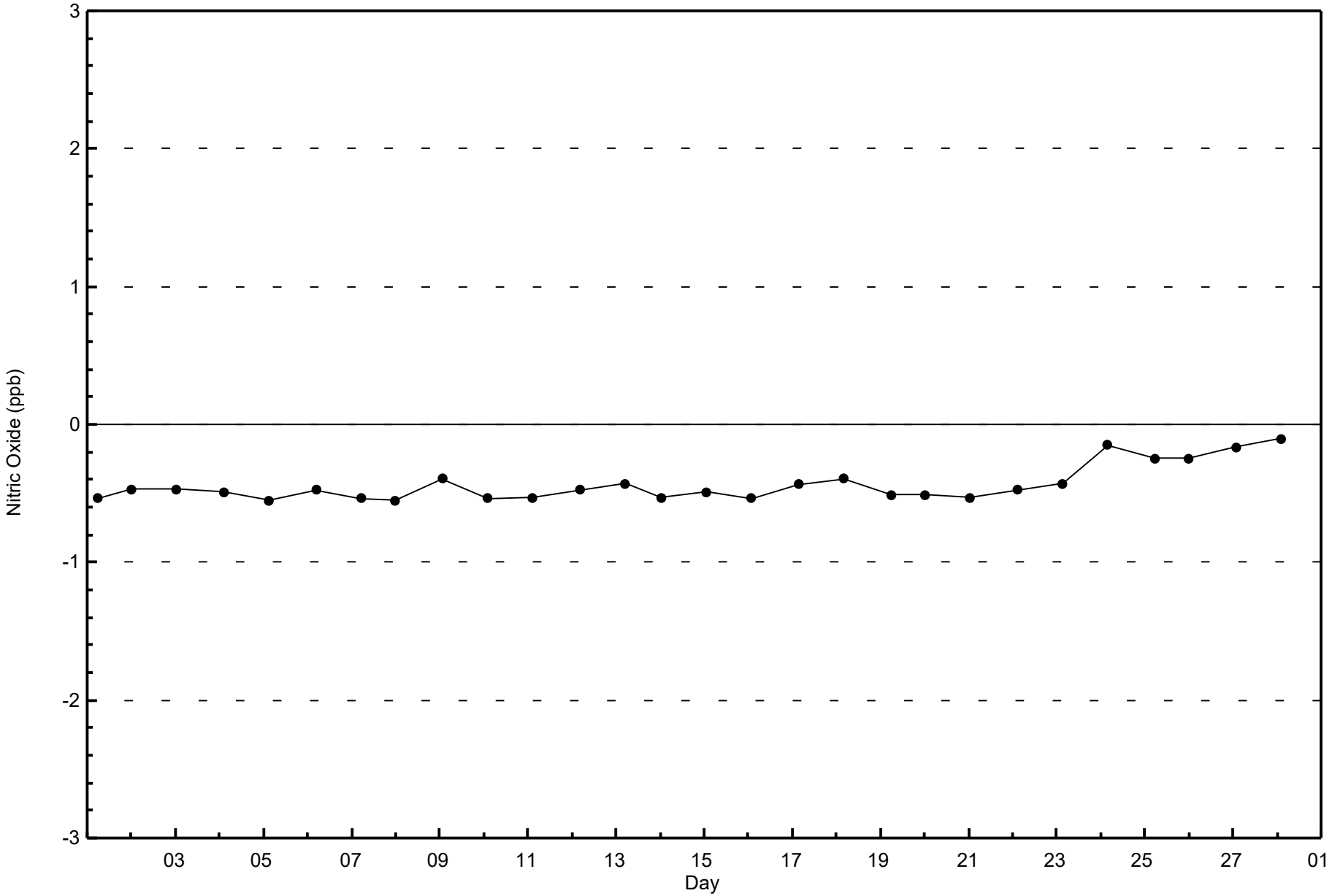
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Sawbones Bay - February 2026

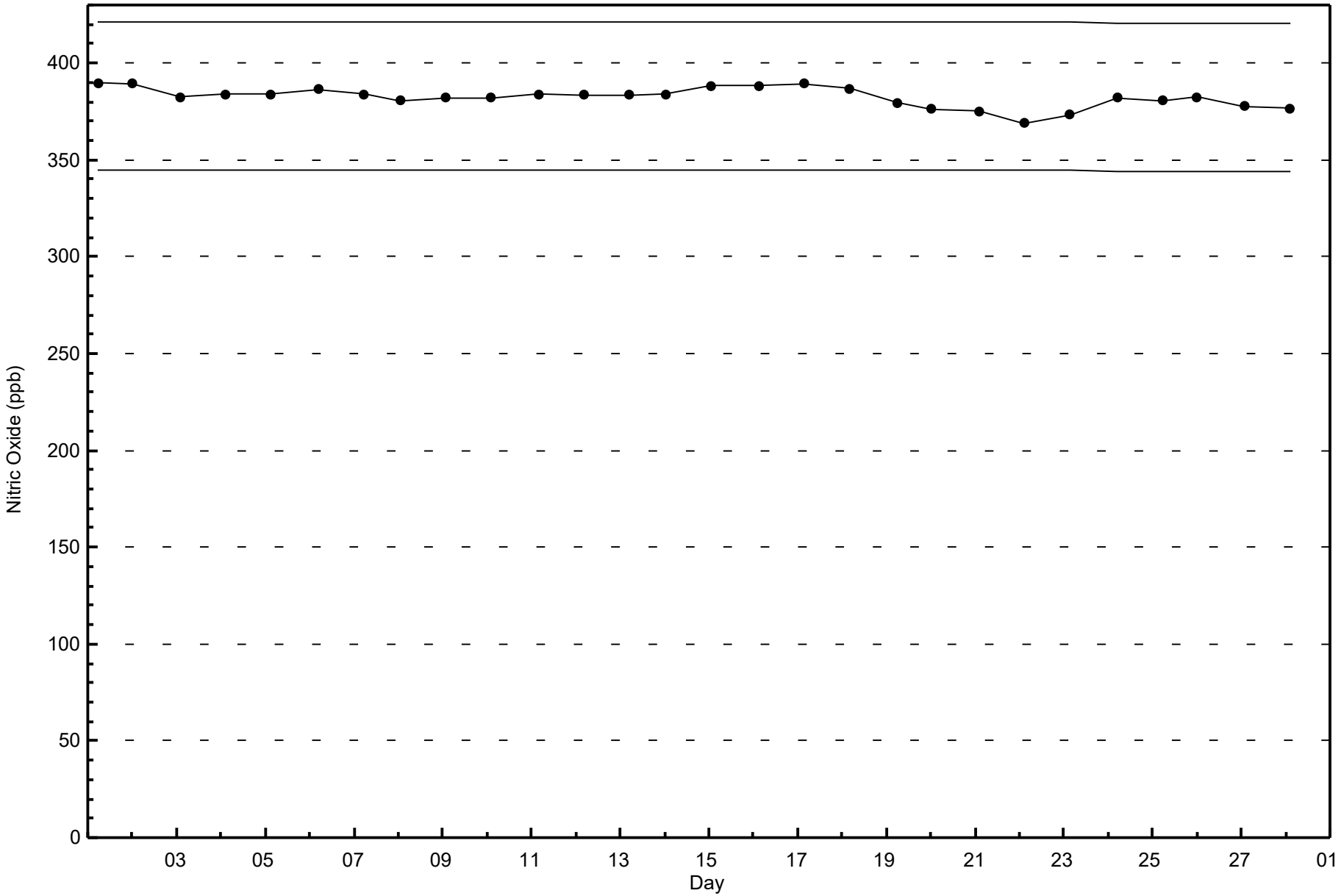


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Sawbones Bay - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Sawbones Bay - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 34.2 ppb on Feb 28 06:00 Maximum Daily Average: 14.8 ppb on Feb 28

Minimum Value: 0.0 ppb on Feb 17 17:00 Minimum Daily Average: 0.1 ppb on Feb 17
Maximum Diurnal Average: 8.3 ppb at hour 8 Minimum Diurnal Average: 3.5 ppb at hour 15
Monthly Average: 4.96 ppb Percentiles: P_1 = 0.1 P_{10} = 0.5 Q_1 = 1.3 Median = 3.4 Q_3 = 6.8 P_{90} = 11.5 P_{99} = 28.3

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.7	1.5	1.0	0.9	0.9	Z	1.3	1.2	1.6	1.5	3.7	5.6	6.1	8.0	3.5	3.0	2.2	3.6	0.7	0.6	0.3	0.6	1.1	1.6	2.3	8.0
2-Feb	Z	2.3	2.3	2.3	2.1	1.9	2.7	2.8	7.0	2.6	2.2	4.0	4.1	6.8	5.2	4.6	6.4	6.5	8.5	5.2	3.4	2.1	2.0	2.4	3.9	8.5
3-Feb	1.7	Z	3.1	4.0	3.0	4.6	7.5	8.2	6.8	5.7	4.8	5.1	5.2	6.5	4.9	5.0	2.5	3.0	1.8	0.8	1.0	1.9	2.5	2.4	4.0	8.2
4-Feb	2.6	2.0	Z	2.7	4.4	4.9	8.0	8.1	8.3	10.5	13.0	10.7	9.5	5.8	2.1	1.3	1.8	11.6	14.7	14.6	20.8	16.9	19.6	6.0	8.7	20.8
5-Feb	2.9	4.7	5.4	Z	7.3	5.9	1.1	0.4	0.6	1.6	1.7	1.4	2.2	1.7	0.7	1.1	1.5	1.6	1.9	3.0	3.5	3.3	3.3	3.4	2.6	7.3
6-Feb	3.4	3.2	2.9	1.8	Z	1.5	1.5	1.4	0.9	0.7	0.7	0.7	0.6	0.9	1.5	2.1	3.0	2.4	3.0	3.8	4.9	4.1	5.6	4.6	2.4	5.6
7-Feb	1.1	3.8	5.9	4.8	6.1	Z	6.1	5.0	2.4	3.0	4.1	3.6	2.7	2.3	2.4	2.0	1.5	1.0	0.7	0.5	0.4	0.4	0.4	0.5	2.6	6.1
8-Feb	Z	0.6	0.6	0.6	0.8	1.3	2.3	2.0	2.6	4.7	4.2	6.8	2.6	4.2	5.6	4.8	2.4	2.5	2.8	2.3	1.4	2.6	2.7	4.7	2.8	6.8
9-Feb	7.4	Z	5.5	5.0	4.8	4.5	7.6	5.5	5.7	5.4	2.9	1.5	1.9	2.0	1.8	1.6	2.4	2.7	2.3	1.8	1.4	1.2	1.1	0.9	3.3	7.6
10-Feb	0.9	0.7	Z	1.2	1.4	1.5	1.8	1.5	1.0	1.3	2.4	8.0	7.1	8.3	6.8	7.1	4.9	6.2	7.8	6.8	6.2	6.6	8.3	7.8	4.6	8.3
11-Feb	9.1	11.9	10.9	Z	4.7	7.9	10.0	13.7	10.7	10.0	6.1	7.7	8.9	10.1	5.7	8.4	6.5	9.3	12.4	8.0	4.7	3.6	6.6	7.1	8.4	13.7
12-Feb	6.2	6.9	5.1	4.9	Z	11.3	9.9	15.9	26.4	18.9	10.3	7.2	4.2	4.3	4.3	9.8	7.6	5.5	6.5	5.1	4.4	6.1	7.8	4.1	8.4	26.4
13-Feb	3.2	3.0	2.9	5.4	11.5	Z	9.2	16.2	19.7	14.4	5.5	3.6	5.2	5.0	3.0	7.2	4.1	8.3	6.2	12.8	12.6	8.6	10.3	16.2	8.4	19.7
14-Feb	Z	4.1	3.5	7.2	7.2	7.7	14.9	31.6	20.8	12.5	8.5	12.5	9.4	6.1	6.8	8.9	2.3	1.7	3.6	9.6	20.5	19.7	11.9	4.2	10.2	31.6
15-Feb	8.7	Z	5.3	5.8	2.9	2.8	7.0	7.0	4.4	11.9	9.8	5.8	4.5	3.6	4.0	3.4	3.2	4.9	3.9	3.7	4.1	6.1	5.4	5.1	5.4	11.9
16-Feb	4.8	4.1	Z	2.0	1.6	1.3	1.1	2.1	1.0	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.4	0.2	0.3	0.3	0.3	1.0	4.8
17-Feb	0.3	0.2	0.2	Z	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
18-Feb	0.1	0.0	0.1	0.0	Z	0.8	1.0	0.9	0.9	0.7	0.5	0.5	0.5	0.6	0.6	0.8	0.9	1.4	1.3	1.5	1.6	1.9	3.9	5.3	1.1	5.3
19-Feb	5.9	11.6	12.6	10.3	5.1	Z	19.8	17.2	13.8	3.9	1.8	2.5	3.3	4.2	5.4	9.4	3.6	6.7	11.1	6.9	7.4	9.3	16.0	14.6	8.8	19.8
20-Feb	Z	17.6	17.7	17.0	16.9	18.1	33.4	27.7	16.6	10.6	8.5	12.3	11.6	10.3	11.1	12.9	10.7	13.3	9.1	5.6	4.9	3.8	3.2	2.4	12.8	33.4
21-Feb	1.9	Z	8.1	8.2	8.6	6.5	5.7	5.4	4.1	3.4	1.1	0.3	0.3	0.5	0.6	0.9	0.6	0.5	0.5	0.4	0.2	0.3	0.3	0.3	2.6	8.6
22-Feb	0.2	0.2	Z	0.3	0.3	1.2	1.8	1.8	0.8	0.6	0.9	1.4	1.1	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.6	0.5	0.3	0.9	0.7	1.8
23-Feb	0.7	0.2	0.3	Z	3.5	2.4	7.7	11.5	8.4	3.1	C	C	C	C	C	1.1	1.3	1.5	0.9	0.8	0.7	1.2	1.5	1.9	2.7	11.5
24-Feb	3.2	12.9	10.5	3.1	Z	2.5	2.1	10.9	11.7	5.6	5.7	3.5	3.5	2.9	3.6	4.2	5.3	5.8	4.5	3.4	2.2	3.9	3.7	3.2	5.1	12.9
25-Feb	1.4	1.8	4.0	6.8	6.3	Z	7.7	6.8	3.2	5.5	4.0	7.0	5.9	5.4	5.2	6.6	9.9	7.1	7.0	5.8	13.3	5.3	1.1	0.9	5.6	13.3
26-Feb	Z	1.1	0.9	0.9	1.0	0.9	1.0	0.8	0.7	0.9	1.0	1.5	5.0	3.6	3.0	4.7	4.6	7.1	6.9	5.6	3.2	1.2	2.2	2.2	2.6	7.1
27-Feb	1.6	Z	2.0	1.7	1.9	2.0	1.8	1.3	1.2	1.3	1.3	1.0	1.0	1.1	1.1	1.4	1.7	2.4	2.7	1.9	1.7	2.3	2.9	12.4	2.2	12.4
28-Feb	17.3	29.7	Z	32.0	29.3	34.2	28.7	24.0	20.8	12.6	6.3	3.8	3.7	3.8	4.3	3.5	7.7	12.0	9.3	6.5	10.2	14.7	15.8	10.0	14.8	34.2
	3.8	5.4	4.8	5.4	5.5	5.5	7.2	8.3	7.2	5.5	4.1	4.4	4.1	4.0	3.5	4.2	3.6	4.6	4.7	4.2	4.9	4.6	5.0	4.5	Diurnal Average	
	17.3	29.7	17.7	32.0	29.3	34.2	33.4	31.6	26.4	18.9	13.0	12.5	11.6	10.3	11.1	12.9	10.7	13.3	14.7	14.6	20.8	19.7	19.6	16.2	Diurnal Maximum	

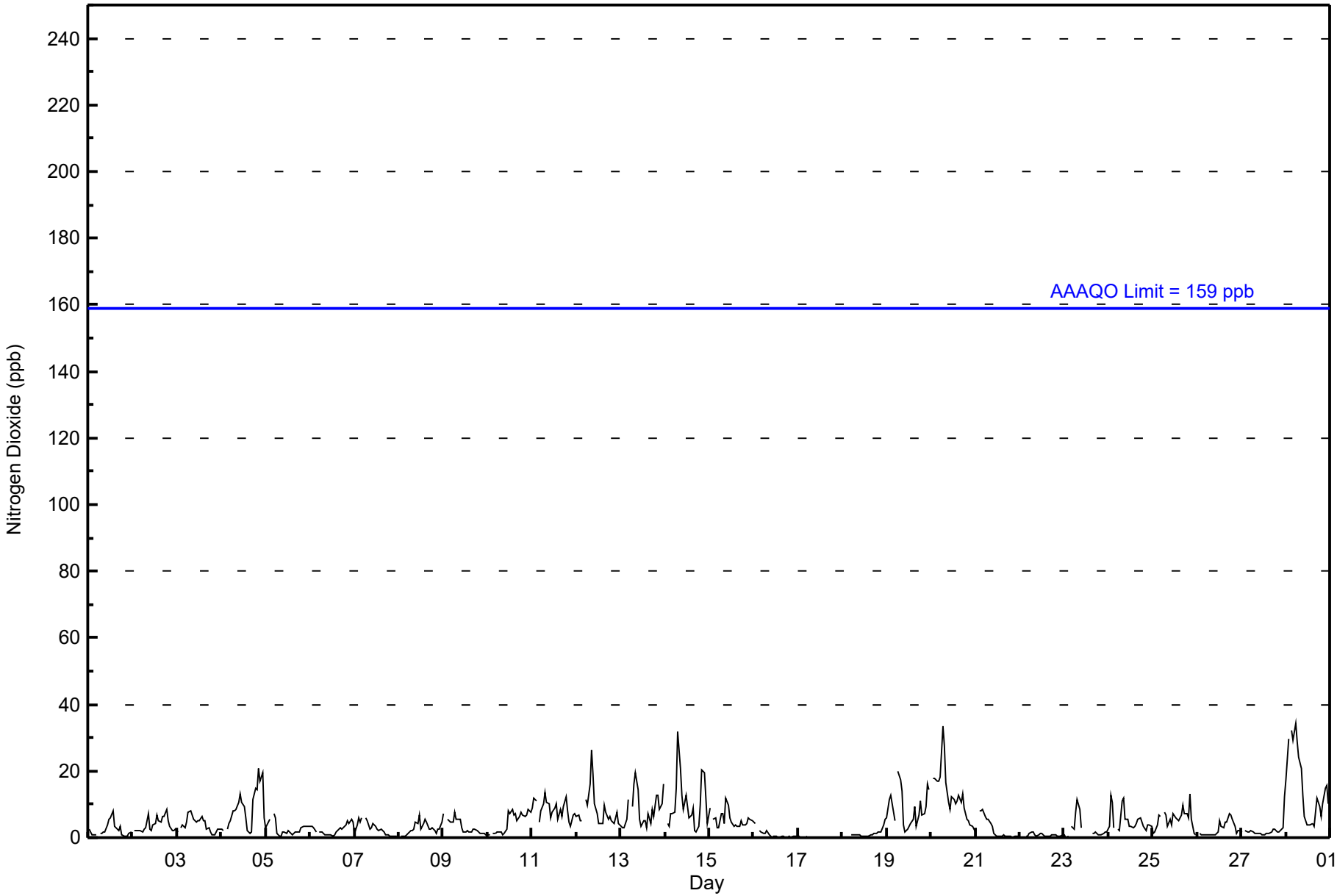
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Sawbones Bay - February 2026



Nitrogen Dioxide (NO_2) - ppb
Sawbones Bay - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	625	97.81	97.81
21 - 40	14	2.19	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Sawbones Bay - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	50	75	51	22	27	26	29	26	66	59	45	21	36	44	11	37	625
21 - 40	0	0	0	0	0	0	0	2	9	0	0	2	1	0	0	0	14
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	50	75	51	22	27	26	29	28	75	59	45	23	37	44	11	37	639

Total Number of Valid Hours: 639

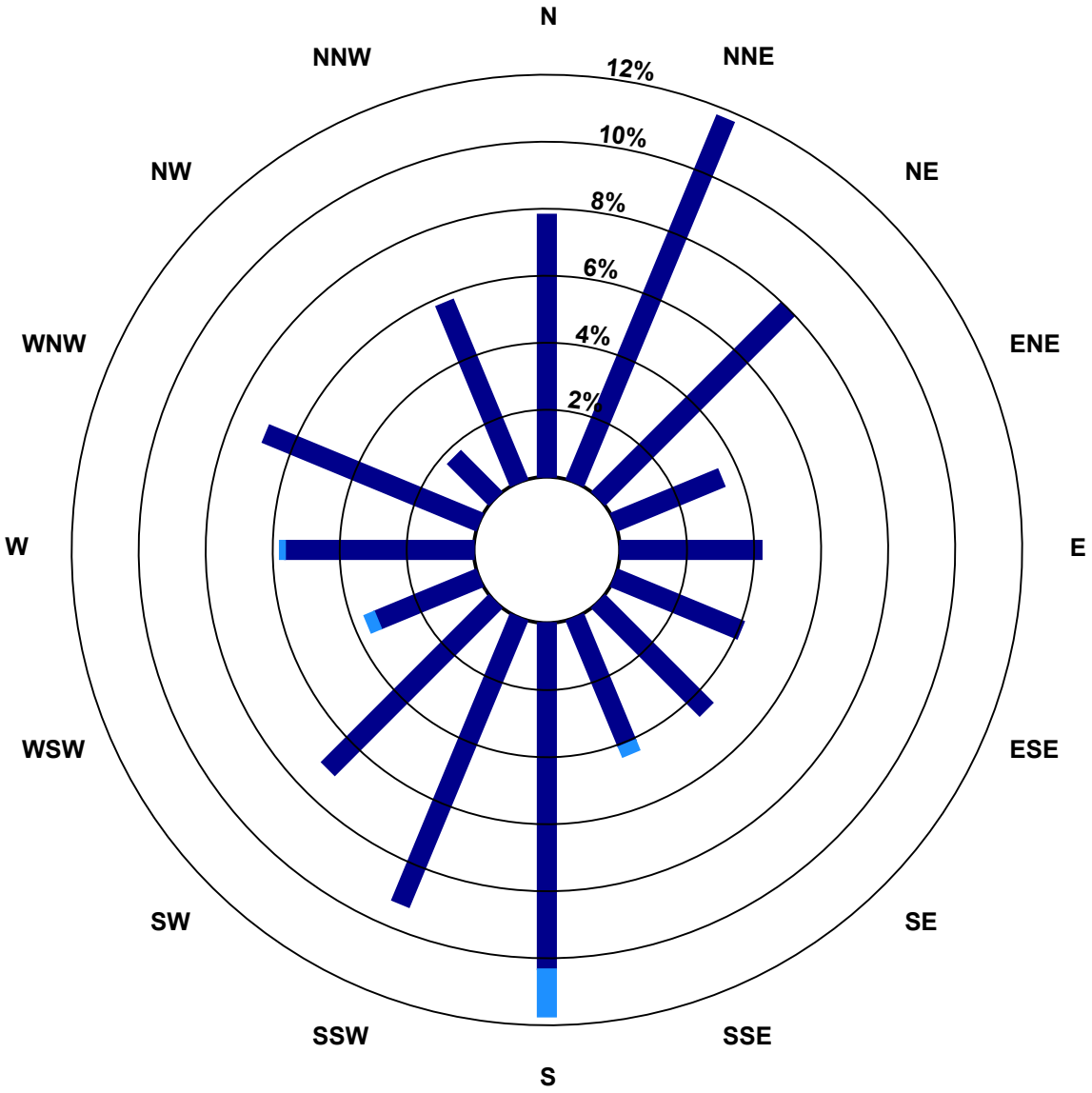
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Sawbones Bay



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

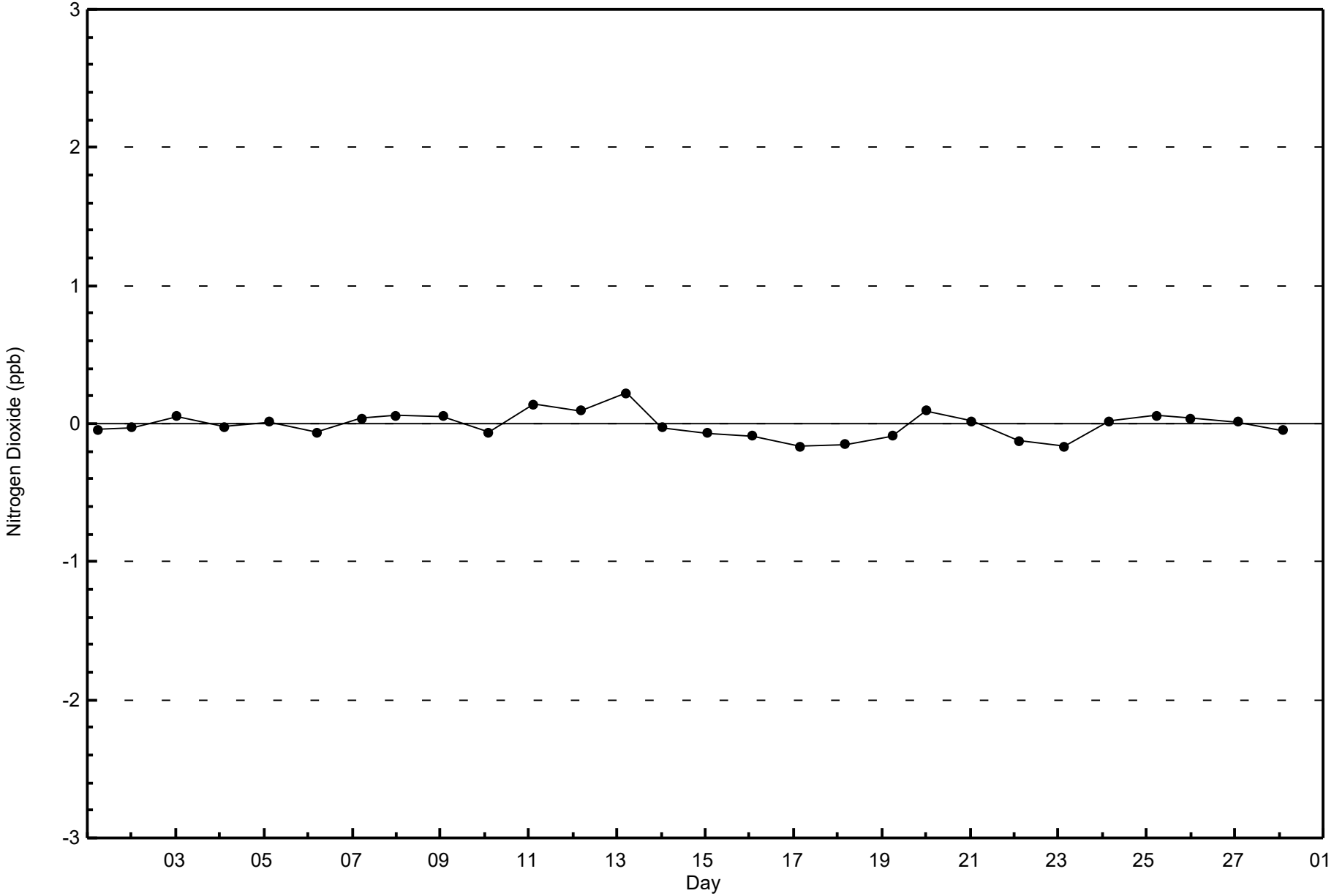
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Sawbones Bay - February 2026

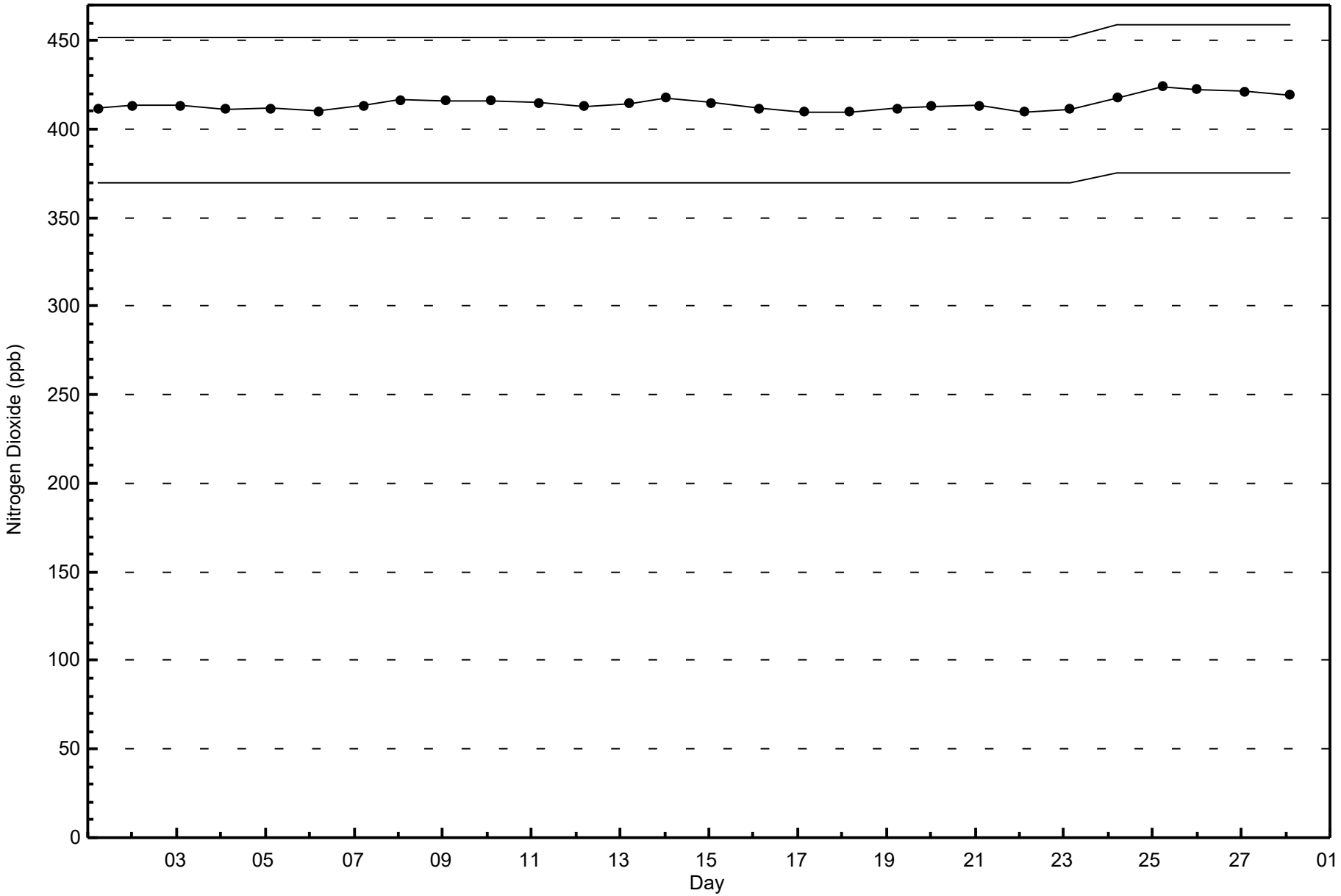


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Sawbones Bay - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Sawbones Bay - February 2026

Maximum Value: 66.1 ppb on Feb 20 07:00

Maximum Daily Average: 22.0 ppb on Feb 28

Minimum Value: 0.0 ppb on Feb 18 02:00

Minimum Daily Average: 0.1 ppb on Feb 17

Maximum Diurnal Average: 11.9 ppb at hour 8

Minimum Diurnal Average: 4.3 ppb at hour 1

Monthly Average: 6.85 ppb

Percentiles: P_1 = 0.1 P_{10} = 0.5 Q_1 = 1.4 Median = 4.0 Q_3 = 8.7 P_{90} = 17.1 P_{99} = 40.6

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.8	1.5	1.1	1.0	0.9	Z	1.4	1.3	1.8	1.7	6.1	11.1	12.7	17.7	6.3	5.7	3.8	6.2	0.7	0.6	0.3	0.6	1.1	1.6	3.8	17.7
2-Feb	Z	2.3	2.3	2.3	2.1	1.9	2.7	3.6	14.4	2.9	2.7	7.2	5.8	10.9	8.3	7.1	9.5	9.5	11.4	6.1	3.5	2.2	2.1	2.5	5.4	14.4
3-Feb	1.8	Z	3.1	4.0	3.1	4.6	7.6	8.4	7.2	7.0	6.5	6.7	7.7	10.0	6.5	6.3	2.9	4.4	2.6	0.8	1.0	1.9	2.6	2.4	4.7	10.0
4-Feb	2.6	2.1	Z	3.1	5.9	6.2	10.5	10.2	11.8	16.6	22.8	19.2	16.1	9.1	2.8	1.6	2.0	16.8	19.0	19.9	28.8	23.3	27.0	8.1	12.4	28.8
5-Feb	3.8	6.7	6.0	Z	9.3	8.2	1.2	0.5	0.7	1.7	2.0	1.7	2.9	2.3	0.9	1.3	1.6	1.6	1.9	3.0	3.5	3.3	3.3	3.4	3.1	9.3
6-Feb	3.4	3.3	2.9	1.8	Z	1.5	1.5	1.4	0.9	0.7	0.8	0.9	0.9	1.3	1.9	2.5	3.2	2.5	3.1	3.9	5.0	4.2	5.7	4.7	2.5	5.7
7-Feb	1.1	3.9	7.0	5.1	6.3	Z	6.7	6.3	2.6	3.7	5.6	5.3	3.9	3.2	3.1	2.3	1.7	1.1	0.8	0.6	0.5	0.5	0.5	0.6	3.1	7.0
8-Feb	Z	0.7	0.6	0.7	0.9	1.4	2.8	2.5	3.0	7.6	7.2	18.1	3.7	5.8	10.8	8.7	2.6	2.5	2.8	2.3	1.4	2.6	2.7	4.7	4.2	18.1
9-Feb	7.4	Z	5.5	5.0	4.9	4.5	7.7	5.5	6.5	8.3	4.8	2.5	3.1	3.2	2.5	1.8	2.7	2.7	2.3	1.8	1.4	1.3	1.1	0.9	3.8	8.3
10-Feb	0.9	0.8	Z	1.3	1.4	1.6	1.9	1.5	1.1	1.9	5.2	19.9	14.0	14.8	9.0	9.6	6.2	6.8	8.0	6.9	6.5	6.8	9.1	8.0	6.2	19.9
11-Feb	10.0	13.3	12.6	Z	5.6	10.0	12.0	19.7	15.4	15.5	9.6	12.8	15.9	17.1	8.7	12.3	8.8	11.1	15.1	9.4	5.2	4.0	7.6	8.4	11.3	19.7
12-Feb	7.6	8.6	6.3	6.0	Z	13.7	11.9	24.2	40.7	29.3	16.0	11.1	6.3	6.6	5.9	12.8	9.9	7.0	7.6	5.9	5.1	6.4	8.9	4.4	11.4	40.7
13-Feb	3.4	3.2	3.3	6.5	14.2	Z	11.7	21.7	27.0	20.9	8.0	5.2	7.9	7.4	4.2	9.9	4.8	9.0	6.7	14.3	14.0	10.2	10.5	17.3	10.5	27.0
14-Feb	Z	4.2	3.6	7.4	7.3	7.8	22.7	48.8	31.7	20.9	12.0	19.3	13.8	9.3	9.8	11.7	2.7	1.8	3.9	10.7	25.9	24.9	15.5	4.3	13.9	48.8
15-Feb	9.4	Z	6.0	6.0	3.0	2.8	7.1	7.6	4.9	15.7	14.1	8.7	6.6	4.7	5.1	4.0	3.5	5.1	4.0	3.8	4.2	6.2	5.5	5.2	6.2	15.7
16-Feb	4.9	4.1	Z	2.0	1.6	1.3	1.2	2.8	1.2	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.4	0.2	0.3	0.3	0.3	1.0	4.9
17-Feb	0.3	0.2	0.2	Z	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
18-Feb	0.1	0.0	0.1	0.0	Z	0.8	1.0	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.5	1.3	1.5	1.6	1.9	5.5	7.5	1.5	7.5
19-Feb	9.0	26.7	30.9	23.4	8.2	Z	42.7	39.9	44.9	8.8	5.0	7.1	7.9	9.7	11.3	19.1	5.7	9.0	13.7	8.2	10.6	13.9	21.0	18.3	17.2	44.9
20-Feb	Z	19.7	20.3	20.9	21.5	28.1	66.1	41.3	27.9	18.8	16.9	27.2	23.5	18.5	17.1	17.9	12.9	14.1	9.2	5.7	5.1	3.9	3.2	2.4	19.2	66.1
21-Feb	1.9	Z	8.2	8.3	8.7	6.6	5.8	5.5	4.9	7.2	1.7	0.4	0.4	0.6	0.7	1.0	0.7	0.5	0.5	0.4	0.2	0.3	0.3	0.3	2.8	8.7
22-Feb	0.2	0.2	Z	0.3	0.3	1.2	1.8	1.8	0.8	0.7	1.4	2.4	2.1	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.6	0.5	0.3	0.9	0.9	2.4
23-Feb	0.7	0.2	0.3	Z	5.1	2.7	12.5	18.7	11.9	4.5	C	C	C	C	C	1.2	1.3	1.5	0.9	0.8	0.7	1.2	1.5	1.9	3.8	18.7
24-Feb	3.3	17.1	14.7	3.6	Z	2.8	2.2	17.3	20.2	10.1	12.0	6.5	6.4	5.0	6.2	6.4	6.7	7.0	5.1	3.5	2.2	4.0	3.8	3.3	7.4	20.2
25-Feb	1.4	1.8	4.1	6.8	6.4	Z	7.9	7.1	3.7	8.6	6.5	11.8	10.0	9.2	8.4	10.6	14.5	7.7	7.1	6.5	14.2	5.5	1.1	1.0	7.0	14.5
26-Feb	Z	1.2	1.0	1.0	1.0	0.9	1.0	0.8	0.8	1.0	1.2	2.3	8.5	5.6	4.0	5.8	5.3	7.6	6.9	5.6	3.2	1.2	2.2	2.2	3.1	8.5
27-Feb	1.6	Z	2.0	1.7	1.9	2.0	1.8	1.3	1.5	1.8	2.0	1.6	1.6	1.7	1.7	1.9	2.1	2.5	2.7	1.9	1.7	2.3	2.9	19.3	2.7	19.3
28-Feb	20.6	40.1	Z	40.4	34.4	50.5	37.2	33.8	39.2	25.6	12.8	7.3	7.1	7.6	8.9	6.6	13.6	20.8	15.3	10.1	14.8	23.1	25.1	11.0	22.0	50.5
	4.3	7.0	6.2	6.6	6.4	7.0	10.4	11.9	11.7	8.7	6.8	8.1	7.0	6.8	5.4	6.1	4.7	5.7	5.5	4.8	5.8	5.6	6.1	5.2	Diurnal Average	
	20.6	40.1	30.9	40.4	34.4	50.5	66.1	48.8	44.9	29.3	22.8	27.2	23.5	18.5	17.1	19.1	14.5	20.8	19.0	19.9	28.8	24.9	27.0	19.3	Diurnal Maximum	

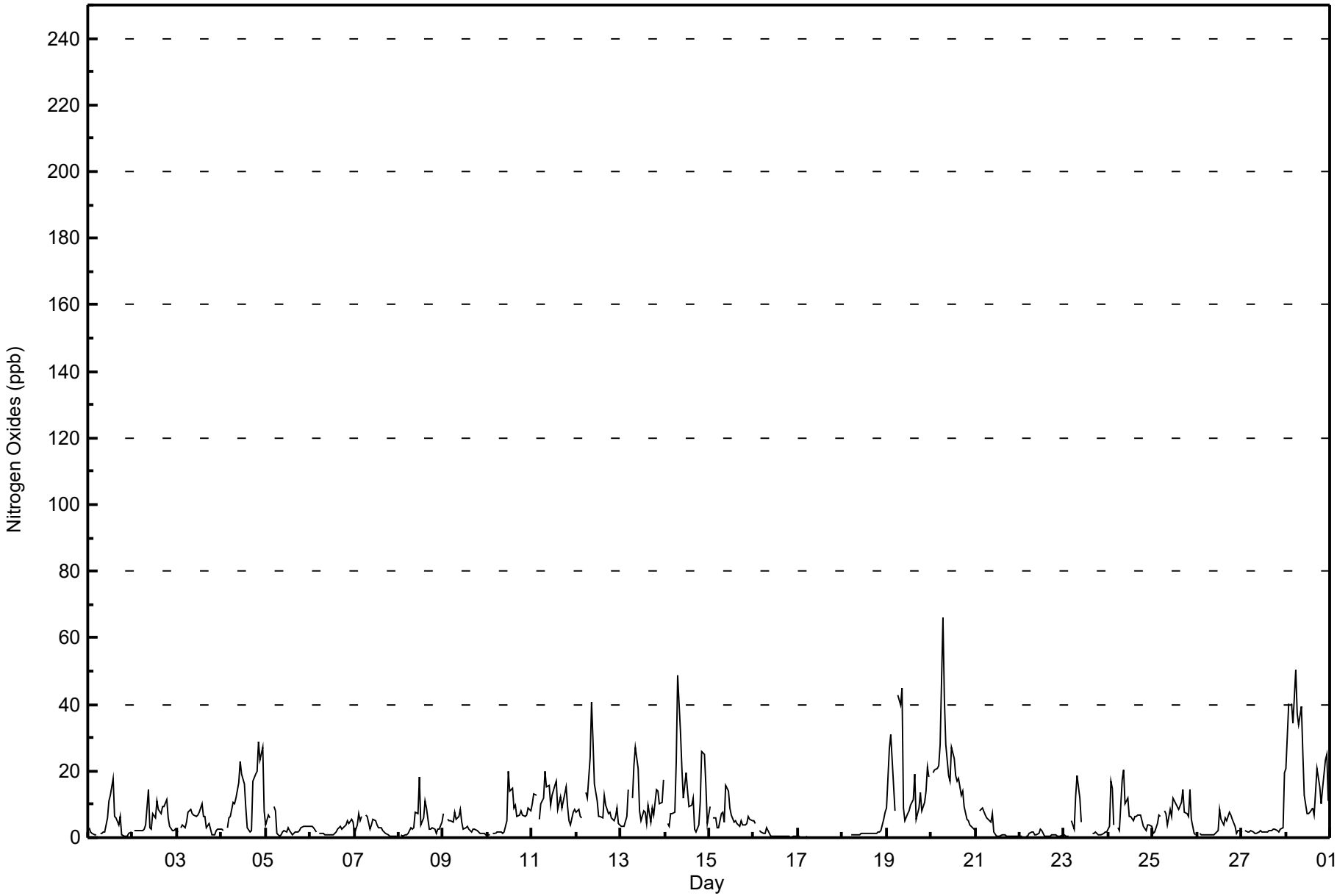
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Sawbones Bay - February 2026



Nitrogen Oxides (NO_X) - ppb
Sawbones Bay - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	596	93.27	93.27
21 - 40	36	5.63	98.90
11 - 80	7	1.10	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Sawbones Bay - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	50	75	51	22	27	26	29	24	54	54	45	16	32	43	11	37	596
21 - 40	0	0	0	0	0	0	0	3	16	5	0	6	5	1	0	0	36
11 - 80	0	0	0	0	0	0	0	1	5	0	0	1	0	0	0	0	7
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	50	75	51	22	27	26	29	28	75	59	45	23	37	44	11	37	639

Total Number of Valid Hours: 639

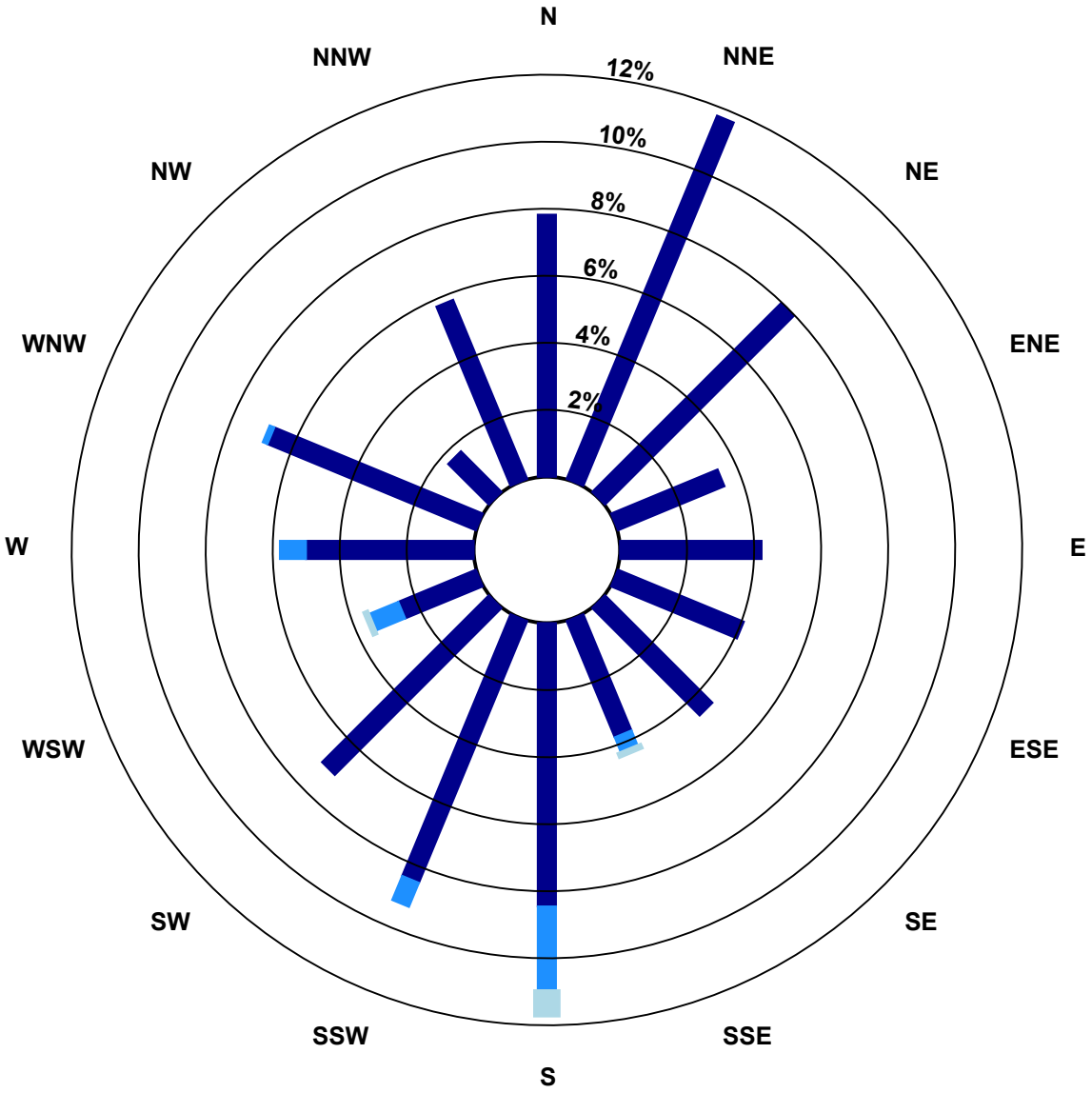
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Sawbones Bay



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

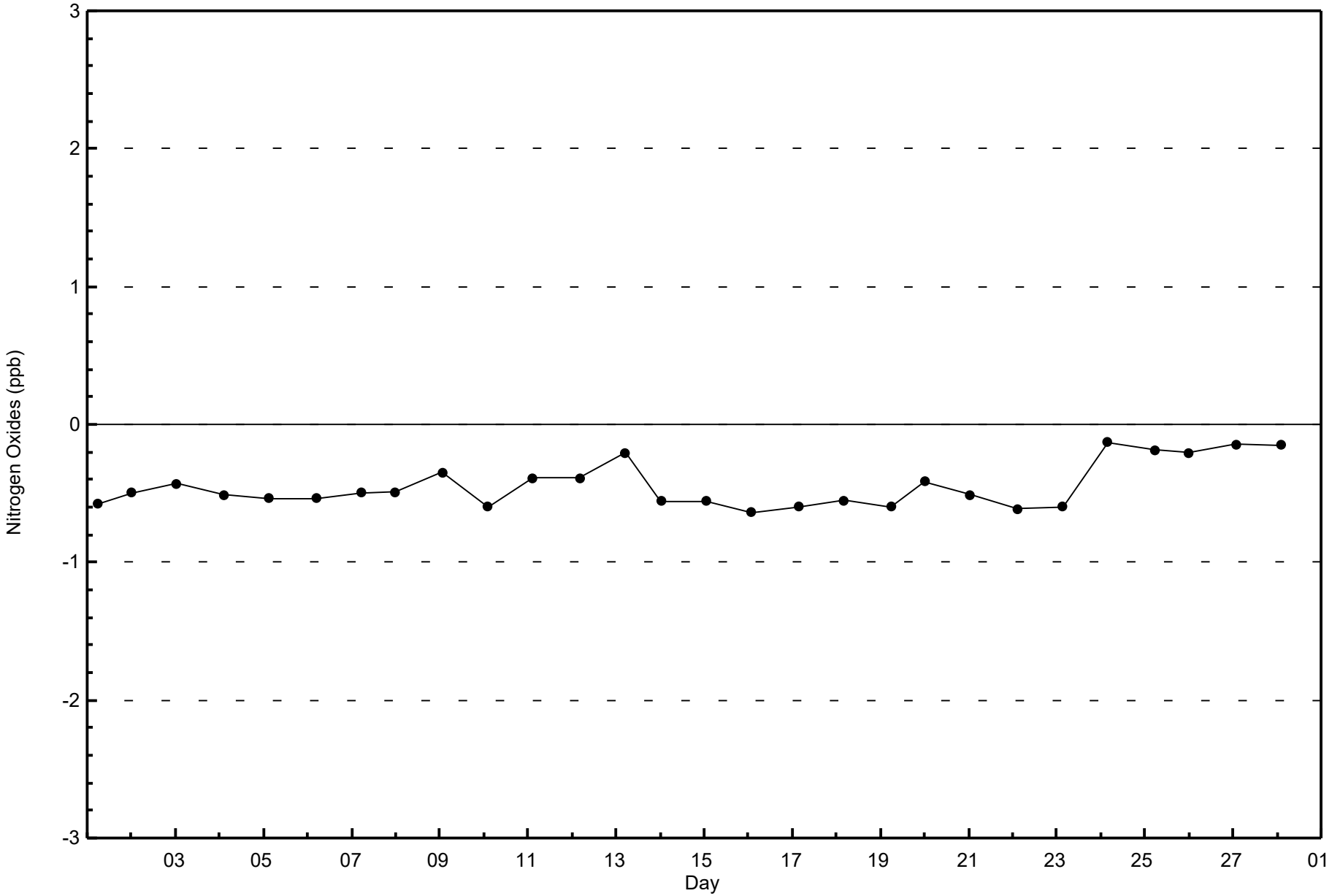
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Sawbones Bay - February 2026

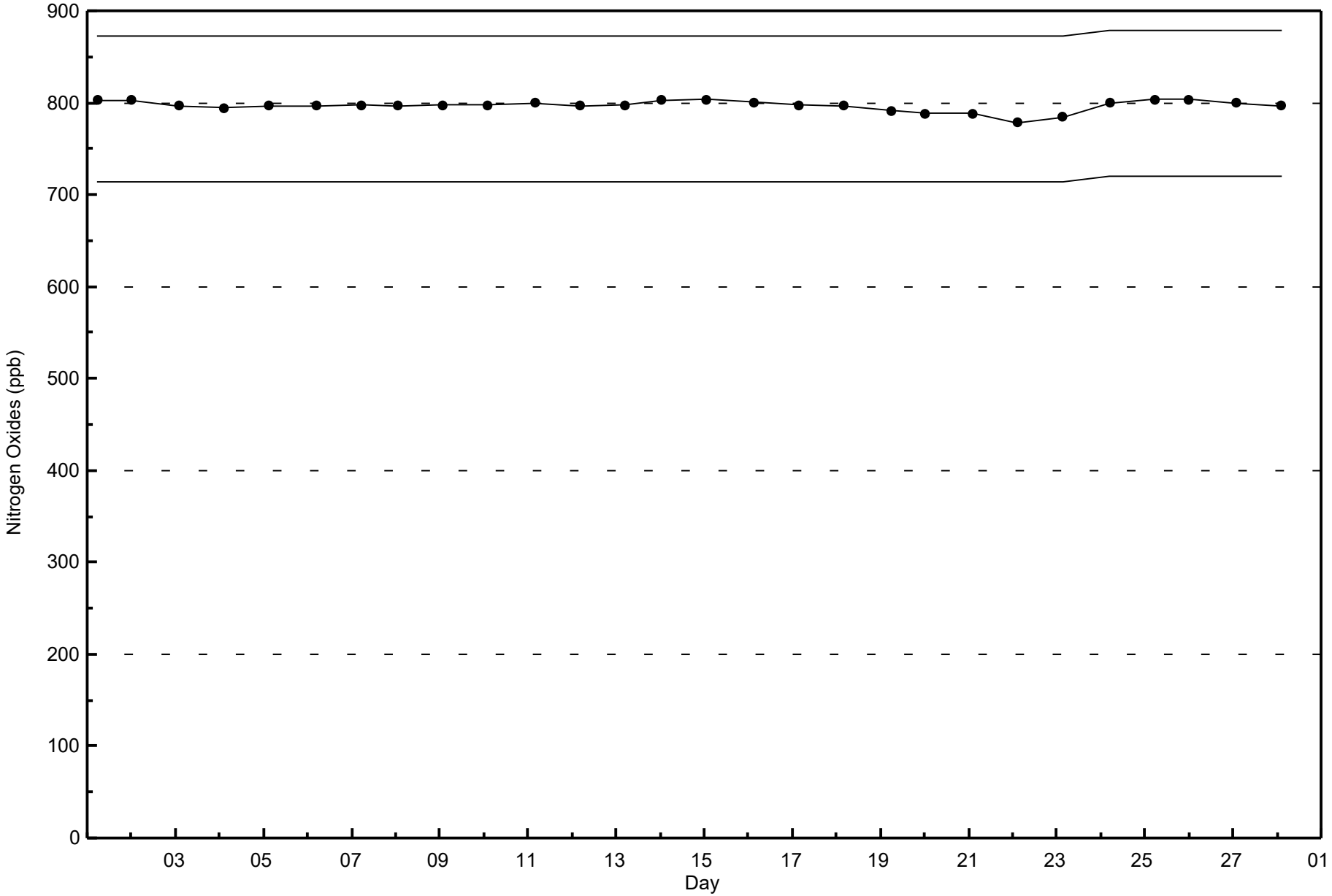


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Sawbones Bay - February 2026



Maximum Value: 8.8 C on Feb 4 15:00

Maximum Daily Average: 3.5 C on Feb 4

Minimum Value: -38.8 C on Feb 28 07:00

Minimum Daily Average: -30.1 C on Feb 18

Maximum Diurnal Average: -8.5 C at hour 15

Minimum Diurnal Average: -14.9 C at hour 8

Monthly Average: -12.19 C

Percentiles: P_1 = -35.4 P_{10} = -27.5 Q_1 = -20.2 Median = -9.8 Q_3 = -3.8 P_{90} = 0.4 P_{99} = 6.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

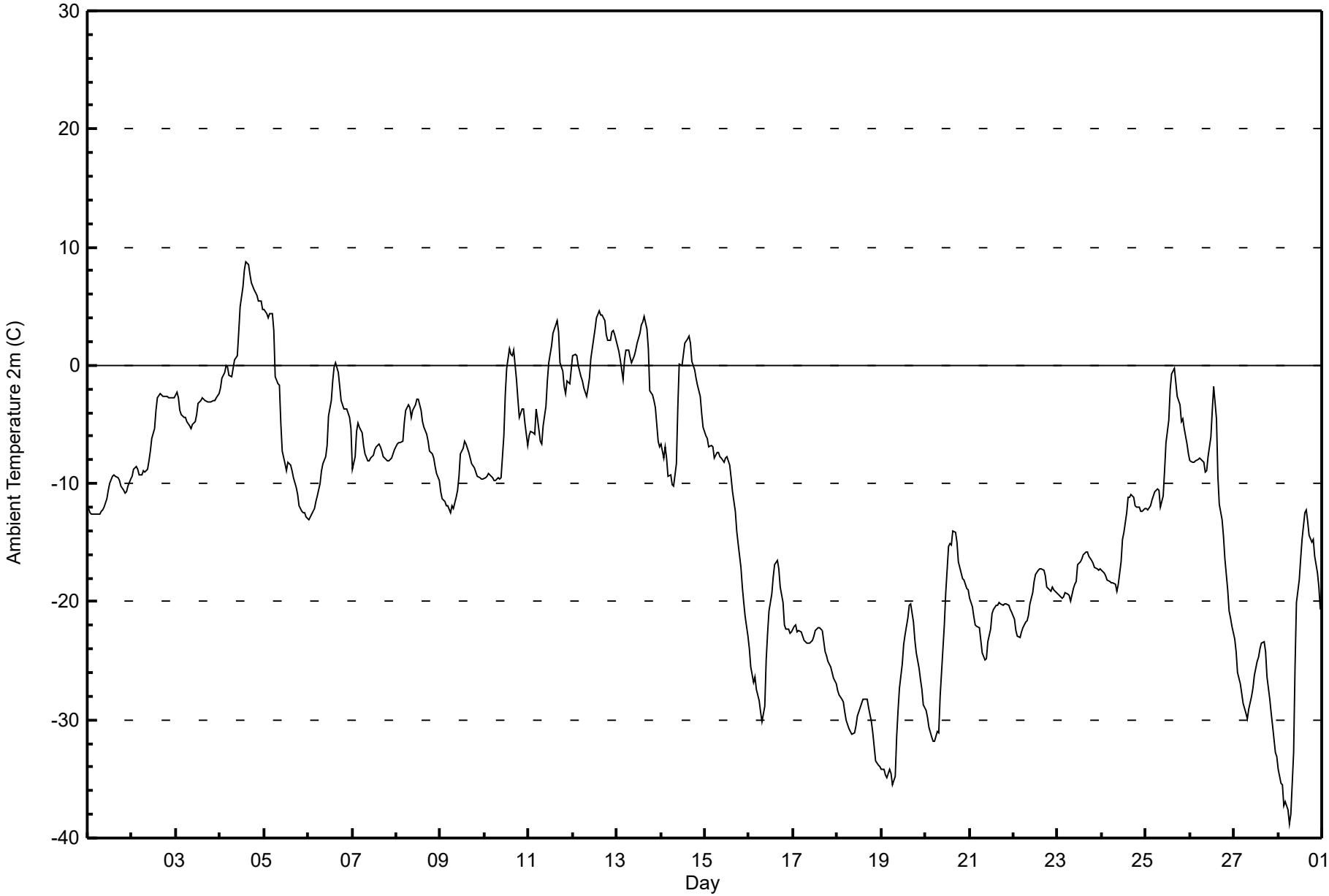
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-12.2	-12.4	-12.6	-12.6	-12.6	-12.5	-12.5	-12.4	-12.2	-12.0	-11.3	-10.6	-10.0	-9.4	-9.3	-9.4	-9.6	-9.8	-10.3	-10.6	-10.8	-10.7	-10.2	-9.6	-11.1	-9.3
2-Feb	-9.3	-8.8	-8.6	-8.8	-9.3	-9.2	-8.9	-9.0	-8.8	-8.0	-7.2	-6.2	-5.3	-3.8	-2.8	-2.4	-2.5	-2.6	-2.7	-2.7	-2.7	-2.8	-2.7	-2.7	-5.7	-2.4
3-Feb	-2.3	-2.7	-3.8	-4.1	-4.4	-4.5	-4.8	-5.1	-5.4	-5.0	-4.7	-4.1	-3.3	-3.0	-2.8	-2.9	-3.0	-3.1	-3.1	-3.1	-3.0	-3.0	-2.8	-2.3	-3.6	-2.3
4-Feb	-1.9	-1.1	-0.6	-0.1	-0.1	-0.9	-1.0	-0.3	0.4	0.8	2.8	5.0	6.7	8.0	8.8	8.5	7.7	7.0	6.4	6.1	5.9	5.5	5.5	4.8	3.5	8.8
5-Feb	4.8	4.4	4.0	4.3	4.3	3.0	-1.0	-1.5	-1.7	-4.9	-7.2	-8.3	-8.9	-8.2	-8.4	-9.0	-9.5	-10.3	-11.0	-11.9	-12.4	-12.5	-12.5	-12.9	-5.3	4.8
6-Feb	-13.0	-12.9	-12.6	-12.1	-11.5	-11.0	-10.0	-8.9	-8.3	-7.8	-6.8	-4.3	-3.0	-1.4	-0.2	0.2	-0.6	-1.8	-3.0	-3.7	-3.6	-3.6	-4.4	-5.3	-6.2	0.2
7-Feb	-8.8	-7.8	-5.6	-4.9	-5.2	-5.7	-6.8	-7.4	-8.1	-8.0	-7.8	-7.6	-7.2	-6.9	-6.7	-6.9	-7.2	-7.7	-8.0	-8.0	-8.1	-7.8	-7.5	-7.1	-7.2	-4.9
8-Feb	-6.7	-6.6	-6.5	-6.4	-4.9	-3.8	-3.3	-3.6	-4.4	-3.8	-3.4	-2.9	-2.9	-3.9	-4.8	-5.3	-5.8	-6.4	-7.3	-7.5	-7.9	-8.6	-9.2	-9.8	-5.7	-2.9
9-Feb	-10.7	-11.2	-11.5	-11.8	-11.9	-12.5	-11.9	-12.1	-11.2	-10.6	-9.4	-7.5	-7.0	-6.4	-6.6	-7.3	-7.9	-8.3	-8.7	-9.1	-9.4	-9.5	-9.6	-9.7	-9.7	-6.4
10-Feb	-9.5	-9.4	-9.2	-9.2	-9.5	-9.7	-9.7	-9.5	-9.6	-9.5	-5.9	-2.5	-0.2	1.5	0.9	0.9	1.3	-1.2	-2.8	-4.4	-3.6	-3.7	-4.9	-6.8	-5.3	1.5
11-Feb	-5.9	-5.6	-5.7	-5.8	-3.6	-4.6	-6.4	-6.6	-5.1	-3.4	-1.3	0.3	1.7	2.7	3.1	3.8	2.8	0.2	-0.5	-1.8	-2.4	-1.3	-1.6	-0.4	-2.0	3.8
12-Feb	0.8	0.9	0.8	0.0	-1.0	-1.3	-1.9	-2.6	-2.0	-1.1	0.5	2.2	3.0	4.0	4.6	4.2	4.3	3.8	2.6	2.1	2.1	2.9	2.9	2.6	1.4	4.6
13-Feb	1.7	1.1	0.4	-1.2	0.4	1.3	1.3	0.7	0.3	0.9	1.2	1.8	2.8	3.4	3.7	4.1	3.1	1.4	-2.2	-2.6	-3.0	-3.6	-6.4	-6.9	0.2	4.1
14-Feb	-6.7	-7.8	-6.9	-7.9	-9.4	-9.3	-10.1	-10.2	-8.4	-3.5	0.1	-0.1	1.0	1.9	2.3	2.4	1.9	0.3	-0.4	-1.1	-1.6	-2.6	-4.0	-5.3	-3.6	2.4
15-Feb	-6.0	-6.2	-6.9	-6.8	-7.0	-7.8	-7.4	-7.3	-7.7	-7.8	-8.2	-7.8	-7.8	-8.4	-9.6	-10.7	-12.3	-14.0	-15.0	-17.1	-18.8	-20.0	-21.3	-22.9	-11.0	-6.0
16-Feb	-24.0	-25.5	-26.8	-26.4	-27.5	-28.4	-29.4	-30.1	-28.8	-25.0	-22.6	-20.8	-19.3	-17.9	-16.9	-16.5	-17.2	-18.7	-20.1	-21.9	-22.3	-22.4	-22.7	-22.6	-23.1	-16.5
17-Feb	-22.1	-21.9	-22.6	-22.4	-22.6	-23.0	-23.3	-23.5	-23.5	-23.6	-23.3	-23.0	-22.5	-22.2	-22.2	-22.3	-22.5	-24.2	-24.6	-25.1	-25.6	-26.0	-26.5	-26.9	-23.6	-21.9
18-Feb	-27.5	-27.9	-28.3	-28.5	-29.3	-30.1	-30.7	-31.0	-31.2	-31.1	-30.6	-29.7	-29.0	-28.7	-28.3	-28.2	-28.2	-29.0	-30.2	-31.1	-32.3	-33.5	-33.9	-34.0	-30.1	-27.5
19-Feb	-34.2	-34.2	-34.6	-34.9	-34.2	-34.6	-35.5	-34.8	-31.5	-29.2	-27.3	-25.2	-23.6	-22.8	-21.4	-20.3	-20.2	-21.7	-23.3	-24.4	-25.6	-26.6	-27.4	-28.8	-28.2	-20.2
20-Feb	-29.2	-29.8	-30.7	-31.5	-31.8	-31.8	-30.9	-31.1	-28.0	-24.0	-22.0	-19.2	-15.3	-15.0	-15.2	-14.0	-14.2	-15.0	-16.7	-17.5	-18.0	-18.1	-18.9	-19.0	-22.4	-14.0
21-Feb	-19.7	-20.5	-21.2	-22.0	-22.1	-22.3	-23.3	-24.4	-24.9	-24.9	-23.4	-22.3	-21.1	-20.6	-20.3	-20.3	-20.1	-20.2	-20.3	-20.2	-20.2	-20.3	-20.6	-20.8	-21.5	-19.7
22-Feb	-21.5	-22.4	-23.0	-23.1	-22.6	-22.2	-21.7	-21.6	-21.1	-20.2	-19.2	-18.3	-17.7	-17.3	-17.2	-17.3	-17.4	-17.9	-18.7	-19.0	-19.1	-18.7	-18.9	-19.2	-19.8	-17.2
23-Feb	-19.4	-19.5	-19.7	-19.6	-19.3	-19.3	-19.4	-20.0	-18.9	-18.5	-18.3	-16.9	-16.6	-16.4	-16.0	-15.8	-15.8	-16.1	-16.5	-16.8	-17.1	-17.2	-17.3	-17.2	-17.8	-15.8
24-Feb	-17.5	-17.5	-17.8	-18.2	-18.3	-18.4	-18.4	-18.6	-19.2	-18.6	-16.6	-14.8	-14.2	-12.5	-11.2	-11.1	-11.0	-11.2	-11.9	-12.0	-12.0	-12.3	-12.3	-12.1	-14.9	-11.0
25-Feb	-12.2	-12.2	-11.8	-11.4	-11.0	-10.6	-10.4	-10.5	-12.0	-11.0	-8.9	-6.6	-4.7	-2.0	-0.7	-0.2	-1.4	-2.6	-3.3	-4.8	-4.5	-5.4	-6.7	-7.5	-7.2	-0.2
26-Feb	-8.1	-8.3	-8.2	-8.0	-8.0	-7.9	-7.9	-8.2	-9.0	-8.9	-7.8	-6.0	-3.8	-1.8	-4.5	-9.3	-11.7	-13.0	-14.5	-16.4	-19.0	-20.8	-21.4	-22.1	-10.6	-1.8
27-Feb	-23.1	-24.2	-25.9	-26.9	-27.8	-28.6	-29.4	-30.0	-29.1	-28.0	-27.3	-26.2	-25.1	-24.7	-23.9	-23.5	-23.4	-24.2	-26.4	-28.2	-29.5	-30.5	-32.8	-33.2	-27.2	-23.1
28-Feb	-34.1	-35.4	-35.5	-37.3	-37.0	-37.6	-38.8	-38.0	-32.8	-25.5	-20.0	-18.2	-16.4	-14.7	-12.5	-12.2	-13.2	-14.4	-14.9	-14.8	-16.2	-17.6	-18.8	-20.7	-24.0	-12.2
	-13.5	-13.8	-14.0	-14.2	-14.2	-14.4	-14.8	-14.9	-14.4	-13.3	-12.0	-10.7	-9.6	-8.8	-8.5	-8.6	-9.1	-10.0	-11.0	-11.7	-12.2	-12.5	-13.1	-13.5	Diurnal Average	
	4.8	4.4	4.0	4.3	4.3	3.0	1.3	0.7	0.4	0.9	2.8	5.0	6.7	8.0	8.8	8.5	7.7	7.0	6.4	6.1	5.9	5.5	5.5	4.8	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Sawbones Bay - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	176	26.19	26.19
-20 - 0	421	62.65	88.84
0 - 10	75	11.16	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 2m (RH2) - %

Sawbones Bay - February 2026

Maximum Value: 96.9 % on Feb 5 08:00

Maximum Daily Average: 92.4 % on Feb 7

Minimum Value: 31.2 % on Feb 13 16:00

Minimum Daily Average: 44.3 % on Feb 13

Maximum Diurnal Average: 80.2 % at hour 8

Minimum Diurnal Average: 67.6 % at hour 16

Monthly Average: 75.15 %

Percentiles: P_1 = 40.3 P_{10} = 56.5 Q_1 = 67.7 Median = 75.5 Q_3 = 86.5 P_{90} = 91.6 P_{99} = 95.3

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

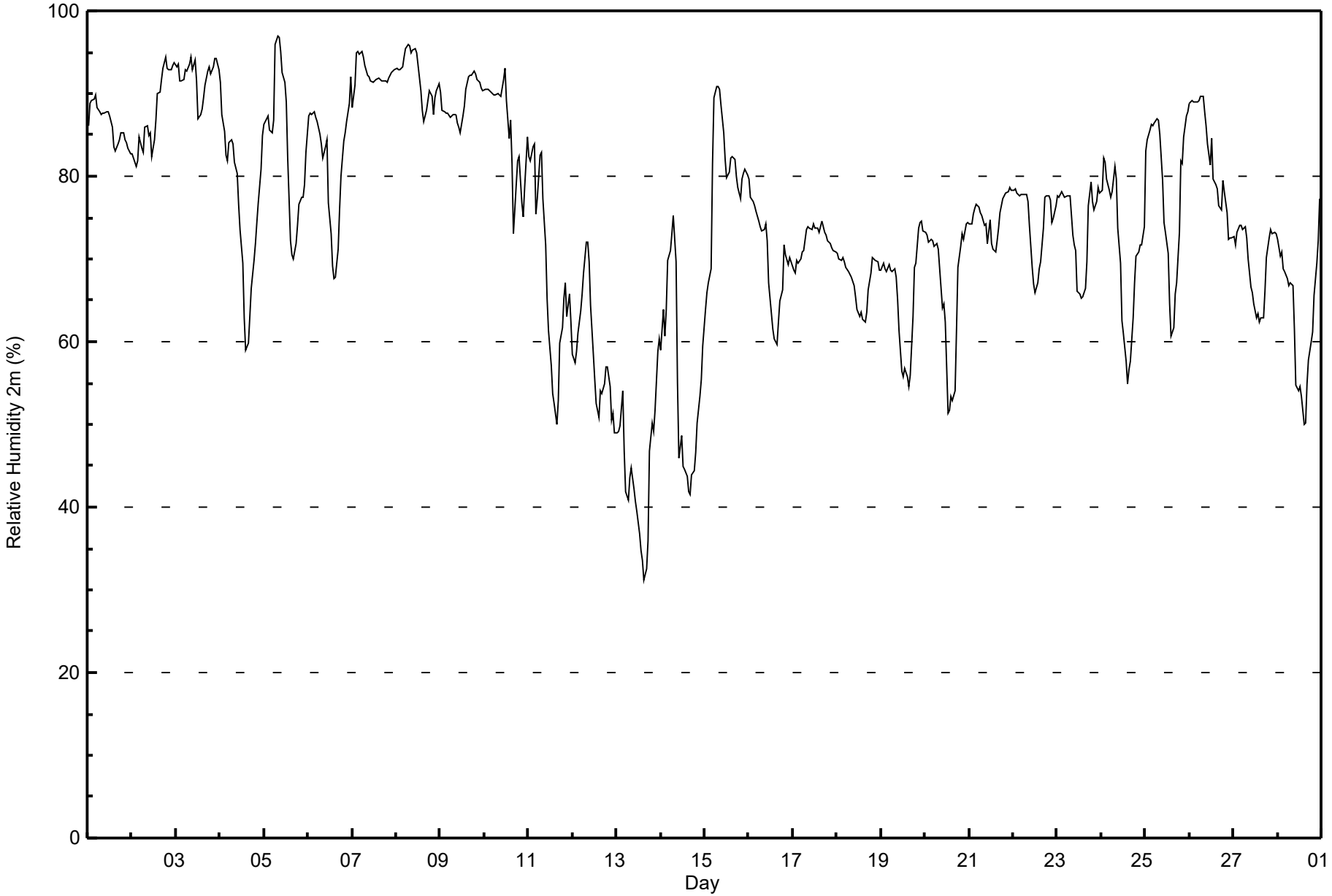
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	86.1	88.8	89.2	89.3	89.8	88.3	87.8	87.5	87.6	87.6	87.8	87.7	87.3	85.9	83.5	83.1	83.9	84.4	85.3	85.2	84.4	84.1	83.5	82.7	86.3	89.8
2-Feb	82.7	82.2	81.2	81.9	84.7	83.4	82.9	86.0	86.2	84.9	85.3	82.4	84.4	86.8	90.1	90.2	91.6	93.0	94.3	93.0	92.9	93.0	93.4	93.8	87.5	94.3
3-Feb	93.2	93.5	91.5	91.5	91.6	92.9	92.7	93.5	94.4	92.9	94.0	91.6	86.9	87.5	88.1	89.5	90.9	92.8	93.3	92.4	93.2	94.3	94.2	93.0	92.0	94.4
4-Feb	91.3	87.5	85.4	82.5	81.9	84.0	84.5	83.9	81.6	80.3	76.5	73.5	69.5	63.0	59.0	59.8	63.0	66.5	69.9	71.8	74.4	76.8	80.9	84.9	76.4	91.3
5-Feb	86.2	86.9	87.3	85.6	85.3	86.8	95.9	96.9	96.8	95.2	92.6	91.4	89.0	82.2	72.1	70.5	70.0	71.9	74.0	76.7	77.4	77.4	79.0	82.9	83.8	96.9
6-Feb	87.3	87.6	87.5	87.9	87.2	86.5	85.1	83.9	82.2	83.6	84.4	76.9	73.1	69.1	67.7	67.8	71.2	75.9	80.0	84.3	85.2	86.6	88.9	92.0	81.7	92.0
7-Feb	88.4	91.0	94.9	95.0	94.7	95.1	94.4	93.4	92.1	92.1	91.5	91.3	91.6	91.7	91.8	91.7	91.6	91.5	91.5	91.3	91.8	92.6	92.7	92.9	92.4	95.1
8-Feb	93.0	92.9	92.9	93.2	94.5	95.4	95.9	95.7	94.8	95.3	95.4	94.9	93.5	90.3	87.9	86.6	88.0	89.2	90.3	89.7	87.5	89.5	90.3	91.3	92.0	95.9
9-Feb	90.2	88.0	87.7	87.6	87.6	87.2	87.4	87.4	87.5	86.5	85.9	85.3	87.3	88.4	90.5	92.1	92.2	92.2	92.8	92.3	91.7	91.3	90.7	90.4	89.2	92.8
10-Feb	90.5	90.5	90.5	90.4	90.0	89.9	89.9	90.0	89.9	89.6	91.6	93.0	89.1	84.6	86.8	81.5	73.1	79.1	81.8	82.3	76.8	75.1	78.6	84.8	85.8	93.0
11-Feb	82.4	81.9	83.5	84.0	75.5	77.3	82.6	82.8	77.3	71.8	65.3	61.4	57.1	53.8	52.5	50.0	52.9	59.8	61.6	65.2	67.1	63.0	65.8	62.3	68.2	84.0
12-Feb	58.4	57.4	58.8	61.1	63.7	65.8	68.4	72.1	72.0	69.6	64.3	58.4	55.4	52.6	50.8	54.1	53.7	54.9	57.0	56.9	54.5	50.5	51.4	49.0	58.8	72.1
13-Feb	49.0	49.1	49.8	54.0	46.7	41.9	40.9	43.5	44.7	42.1	40.7	39.4	36.8	34.8	33.6	31.2	32.6	35.9	46.7	50.2	49.2	51.7	58.9	60.3	44.3	60.3
14-Feb	59.0	63.9	60.8	63.8	69.8	71.0	73.1	75.3	69.6	55.0	46.0	48.6	44.9	44.7	43.8	41.9	41.4	43.9	44.5	46.6	50.2	53.5	55.5	59.5	55.3	75.3
15-Feb	64.0	66.0	67.1	68.8	81.6	89.5	90.8	90.8	90.4	88.6	85.2	82.1	79.8	80.5	82.2	82.4	82.1	80.1	78.7	77.2	79.6	80.4	80.8	80.1	80.4	90.8
16-Feb	79.6	77.4	77.0	76.5	75.8	74.7	74.0	73.3	73.5	74.3	72.2	67.2	63.4	61.6	60.4	59.7	62.3	64.9	66.3	71.7	70.5	69.4	70.1	69.7	70.2	79.6
17-Feb	68.6	68.2	69.8	69.5	70.0	70.9	71.0	73.6	74.0	73.8	73.6	74.2	73.7	73.8	73.2	74.0	74.7	73.2	72.9	72.2	71.8	71.4	71.1	70.9	72.1	74.7
18-Feb	70.6	70.0	69.9	70.1	69.6	69.0	68.4	68.1	67.7	66.7	65.5	63.9	63.1	63.6	62.7	62.3	63.6	66.2	68.3	70.2	70.0	69.8	69.7	68.7	67.4	70.6
19-Feb	68.7	69.6	68.8	68.5	69.4	68.7	68.4	68.9	67.7	65.1	61.3	56.4	55.7	56.8	55.8	54.5	55.9	63.1	69.0	69.6	73.8	74.4	74.6	73.4	65.8	74.6
20-Feb	73.3	72.9	72.0	72.4	72.2	71.6	71.9	71.2	68.9	64.1	64.5	62.4	51.3	51.7	53.3	52.8	54.0	61.3	69.0	71.5	73.1	72.4	74.3	74.4	66.5	74.4
21-Feb	74.3	74.3	75.4	76.2	76.7	76.2	75.5	75.3	74.1	74.3	71.9	74.8	71.8	71.2	70.8	72.1	73.7	75.5	77.3	77.7	78.0	78.2	78.7	78.3	75.1	78.7
22-Feb	78.3	78.4	77.9	77.6	77.7	77.8	77.9	77.8	77.0	74.0	69.0	67.0	66.0	67.2	68.8	69.6	73.8	77.4	77.5	77.5	77.1	74.4	75.0	76.4	74.6	78.4
23-Feb	77.7	77.4	78.1	77.8	77.5	77.7	77.6	77.7	72.9	71.7	71.0	66.1	65.7	65.2	65.4	66.4	69.7	76.5	79.3	76.9	76.0	77.0	78.6	78.0	74.1	79.3
24-Feb	78.3	82.1	81.8	79.6	78.3	77.5	78.2	81.3	79.6	73.7	69.4	62.6	61.0	57.5	54.9	56.6	57.7	62.9	67.1	70.4	70.8	71.7	71.6	73.9	70.8	82.1
25-Feb	83.0	84.5	85.7	86.2	86.2	86.5	87.0	86.9	85.1	79.5	74.5	73.3	70.7	64.5	60.7	61.7	65.8	67.1	73.2	81.8	81.6	84.8	87.3	87.8	78.5	87.8
26-Feb	88.8	89.2	89.0	88.9	89.1	89.1	89.7	89.6	87.8	86.1	83.9	81.4	84.6	79.6	79.0	78.5	76.4	75.9	79.4	78.1	75.6	72.4	72.5	72.6	82.4	89.7
27-Feb	72.6	71.7	73.2	74.1	74.1	73.6	73.9	72.6	70.1	66.6	65.9	64.6	62.9	63.4	62.3	62.8	62.9	66.2	70.2	72.6	73.6	73.1	73.2	73.0	69.5	74.1
28-Feb	72.4	70.3	70.8	68.8	68.5	67.7	66.7	67.1	66.8	61.5	54.7	54.1	54.7	53.4	49.9	50.1	54.9	57.8	60.1	61.2	65.5	69.5	72.3	77.3	63.2	77.3
	78.1	78.3	78.5	78.7	78.9	79.1	79.7	80.2	79.0	76.7	74.4	72.3	70.4	68.8	67.8	67.6	68.7	71.4	74.0	75.2	75.5	75.7	76.9	77.6	Diurnal Average	
	93.2	93.5	94.9	95.0	94.7	95.4	95.9	96.9	96.8	95.3	95.4	94.9	93.5	91.7	91.8	92.1	92.2	93.0	94.3	93.0	93.2	94.3	94.2	93.8	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Sawbones Bay - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	7	1.04	1.04
40 - 60	80	11.90	12.95
60 - 80	327	48.66	61.61
80 - 100	258	38.39	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Sawbones Bay - February 2026

Maximum Speed: 28 km/h on Feb 26 15:00

Maximum Daily Speed Average: 19.7 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 7 07:00

Minimum Daily Speed Average: 0.7 km/h on Feb 20

Maximum Diurnal Speed Average: 4.8 km/h at hour 14

Minimum Diurnal Speed Average: 0.3 km/h at hour 3

Monthly Average Velocity: 1.4 km/h 280.6 deg

Percentiles: P_1 = 1 P_{10} = 4 Q_1 = 6 Median = 8 Q_3 = 12 P_{90} = 16 P_{99} = 26

Hours in Service: 672

Hours of Data: 672

Hours of Missing Data: 0

Percent Operational Time: 100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NE8	NE5	NE4	ENE4	E5	ESE5	ESE6	ESE6	ESE7	ESE9	SE8	SE10	SE11	SSE10	SE9	SE10	SE10	SE9	SE8	SE9	SSE9	SSE10	SSE9	SSE9	SE6.7	SE11
2-Feb	SSE9	SSE8	SSE10	SSE9	SSE7	SSE10	SSE10	SSE11	S12	S12	S11	S10	S9	SSW10	SSW11	SW13	SW11	SSW11	WSW7	WNW6	WNW9	WNW9	NW7	WNW6	SSW6.9	SW13
3-Feb	WNW10	NNE10	NNE8	N6	N6	N6	NNE8	NNE5	NE4	NE2	N5	SE1	SSW7	SSW8	S7	SSW8	S9	S11	S10	S10	S11	S14	S14	S13	S2.4	S14
4-Feb	SSE14	S15	S13	S15	SSW15	SSW11	SSW12	SSW13	SW16	WSW16	WSW20	W23	WSW15	W19	WNW28	WNW23	WNW18	W14	WSW14	WSW15	WSW14	WSW16	WSW13	SW10	WSW12.8	WNW28
5-Feb	SW14	SW12	S2	SW7	WSW7	WNW7	N12	N10	N12	N16	NNW14	N13	N13	NNW13	NNW15	NNW12	N10	NNE9	NNE8	NE9	ENE7	ENE8	ENE8	E10	N6.0	N16
6-Feb	E6	ESE4	E6	E8	E8	E8	ESE7	E8	E8	E8	E7	SE11	ESE8	ESE8	ESE8	SE8	SE7	SE7	SE6	S9	SSE6	SE5	SSE6	SSE2	ESE6.3	SE11
7-Feb	ENE1	S8	S7	S6	S4	S2	W0	NNW4	NNE6	NNE8	NNE5	NNE6	NNE5	NNE5	NNE6	NNE7	NNE7	NNE8	NE7	NE9	ENE7	ENE5	NE5	NE5	NE3.3	NE9
8-Feb	NE4	NNE4	NNE4	N3	ENE3	NE1	WNW3	WNW7	WNW3	S3	SSW3	WNW14	WNW15	WNW19	WNW19	WNW18	NW13	NNW9	NNW10	NNW10	NW9	N7	N9	N8	NW6.5	WNW19
9-Feb	N8	N7	NNE3	E3	ESE3	E2	SE4	ESE5	E4	E5	ENE5	NE1	NE3	NE4	NNE8	NNE9	NNE9	NE8	NE7	NE7	NE6	NE6	NE6	ENE6	NE4.8	NNE9
10-Feb	ENE6	NE5	NE4	E4	ESE4	SE4	SE4	ESE4	E4	ESE4	SE4	SSE4	S5	S6	S6	S8	S9	S8	S9	S9	S13	S12	S8	S6	SSE4.6	S13
11-Feb	S9	S8	S9	S12	SSW14	SSW11	SSW10	SSW10	SSW11	SSW10	SW14	SW15	SW17	SW17	SW16	SW14	SSW12	SSW10	SSW12	SSW10	SSW11	SSW11	SSW10	SSW10	SSW11.5	SW17
12-Feb	SW14	SW14	SW15	SW15	SW13	WSW14	WSW13	WSW10	WSW13	W15	W19	SW11	SW14	SW17	SSW14	SSW8	SSW10	SSW11	SSW11	SSW12	SSW16	SW18	SW19	SW16	SW13.2	W19
13-Feb	SW15	SW15	SW14	SW9	WSW15	W22	W26	W26	W24	W26	W23	W20	W19	W21	W23	W23	W14	WSW4	SSW7	SSW5	SW8	SW9	S6	SSW5	WSW14.4	W26
14-Feb	SSW4	S6	S7	S7	S7	S5	S7	S5	S6	S8	SSW8	W14	W12	W18	WSW10	WSW11	WNW13	WNW13	W13	W14	W14	WSW16	W16	WNW10	WSW7.7	W18
15-Feb	SW6	SSW4	WSW5	WNW10	WNW15	WNW7	WNW7	WNW10	WNW9	N8	N7	NNE6	NNE8	NNE10	NNE10	NNE10	N11	NNE12	NNE9	NNE7	NNE7	NNE5	NNE6	NNE4	NNW5.3	WNW15
16-Feb	NNE5	NNE4	NNE5	NNE4	NE4	NE2	E3	E3	ENE4	ENE4	ENE6	E7	E8	ENE9	ENE10	NE11	NE11	NE12	NE8	NE7	NE8	NE11	NE11	NE15	NE6.8	NE15
17-Feb	NE13	NNE11	NNE16	NNE16	NNE17	NNE18	NNE19	NNE18	NNE18	NNE20	NNE22	NNE23	NNE23	NNE23	NNE26	NNE26	NNE22	N21	N20	N21	N21	N22	N21	N21	NNE19.7	NNE26
18-Feb	N19	N20	N21	N17	N19	N16	NNW15	NNW15	NNW15	NNW15	NNW14	N15	N13	NNW13	NNW11	NNW11	N10	NNE9	N6	NNW6	NW8	NNW5	W2	WNW9	N12.2	N21
19-Feb	WNW7	S2	SSE2	S5	SSW10	SSW7	S4	SSW5	S6	SW10	SW12	SW12	SW12	SW14	SW14	SW11	SW11	SSW8	SSW8	SSW8	S7	S8	S7	S7	SSW7.7	SW14
20-Feb	S5	SSE8	S3	S1	S5	SSE6	S8	S6	S6	SSW4	W4	WNW2	S3	WNW4	NW4	N1	N3	NNE4	NNE7	NE5	NNE6	NNE6	NNE5	N7	SE0.7	S8
21-Feb	NNE6	N5	N7	N8	NNE8	N8	N12	NNE12	NNE13	NNE12	NE12	NE12	NE11	NNE12	NNE13	NE11	NE9	NNE8	NNE8	NE7	NE7	NE7	NE7	NE7	NNE9.0	NNE13
22-Feb	NE5	NE4	NE5	ENE6	E7	E7	E5	ENE6	ENE9	ESE10	SE10	ESE9	ESE10	ESE12	ESE13	ESE13	ESE12	E11	E13	E10	ESE8	SE9	SE8	ESE8	E8.0	ESE13
23-Feb	SE6	SE5	ESE5	SE5	SSE6	SSE2	S5	SSE2	SSW4	WNW9	NW7	NW4	WNW8	WNW11	WNW11	WNW12	NW10	NW9	NNW7	NNW7	NNW6	NW6	WNW8	WNW14	WNW4.0	WNW14
24-Feb	WNW14	W12	W15	WNW17	WNW17	WNW17	WNW14	W19	WSW13	W12	WSW10	SW11	W12	SW10	SW13	SW11	W4	SSW6	S8	S8	S7	SSE6	SSE8	SSE10	WSW8.4	W19
25-Feb	SE8	SE7	ESE8	SE6	SE5	SSE6	E1	NW7	NNW7	WNW5	W5	WSW5	W8	SW11	SW11	SW11	SW8	W6	W0	E2	SSW4	NNE3	NNE5	NNE7	SW1.9	SW11
26-Feb	NE6	NE5	NE5	ENE9	NE9	ENE10	E7	N5	N6	NNW4	N3	N3	W8	WNW26	WNW28	NW28	NW20	WNW24	NW18	NNW19	NNW21	NNW17	NW17	NNW15	NW10.1	WNW28
27-Feb	NNW14	NNW11	NNW9	NNW7	NW6	NNW8	NNW6	NNW8	NNW9	N13	NNW8	NNW7	N8	N7	NNE4	NNE7	NNE7	NNE7	NE8	NNE7	NNE8	N4	NE3	SSW1	N6.8	NNW14
28-Feb	SSW1	S4	S4	SSE2	S3	SSE3	S5	S5	S6	S6	S8	SSW13	SSW12	SSW13	SSW14	SSW16	SSW12	SSW11	SSW12	SSW14	SSW10	SSW9	SSW9	S8	SSW8.3	SSW16
	W0.5	S0.6	SE0.3	S0.5	SW0.8	W0.7	W0.7	WNW1.8	WNW1.4	NW1.8	WNW2.3	W2.4	W3.0	W4.8	WNW4.3	WNW3.6	WNW2.3	NW1.6	NNW0.6	WNW0.6	W1.1	WSW1.1	W0.8	W0.6	Diurnal Average	
	N19	N20	N21	N17	N19	W22	W26	W26	W24	W26	W23	W23	NNE23	WNW26	WNW28	NW28	NNE22	WNW24	N20	N21	NNW21	N22	N21	N21	Diurnal Maximum	

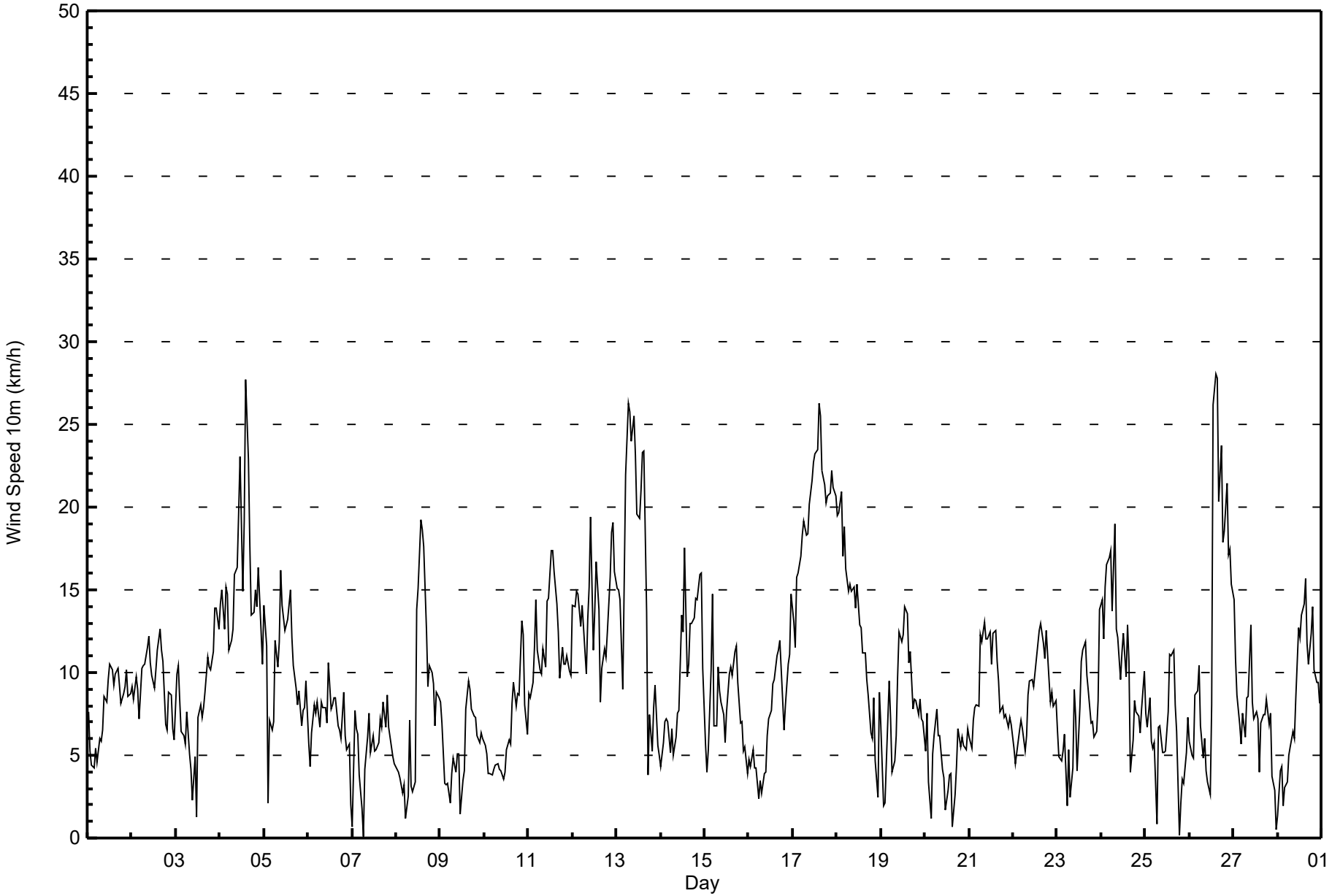
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Sawbones Bay - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	143	21.28	21.28
6 - 11	334	49.70	70.98
12 - 19	158	23.51	94.49
20 - 28	37	5.51	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Sawbones Bay - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	9	18	22	7	12	8	9	7	21	11	0	3	6	6	1	3	143
6 - 11	22	39	28	15	15	15	21	22	48	34	18	6	3	21	7	20	334
12 - 19	13	13	5	0	1	4	0	1	11	17	29	13	18	16	3	14	158
20 - 28	9	8	0	0	0	0	0	0	0	0	0	1	11	5	2	1	37
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	53	78	55	22	28	27	30	30	80	62	47	23	38	48	13	38	672

Total Number of Valid Hours: 672

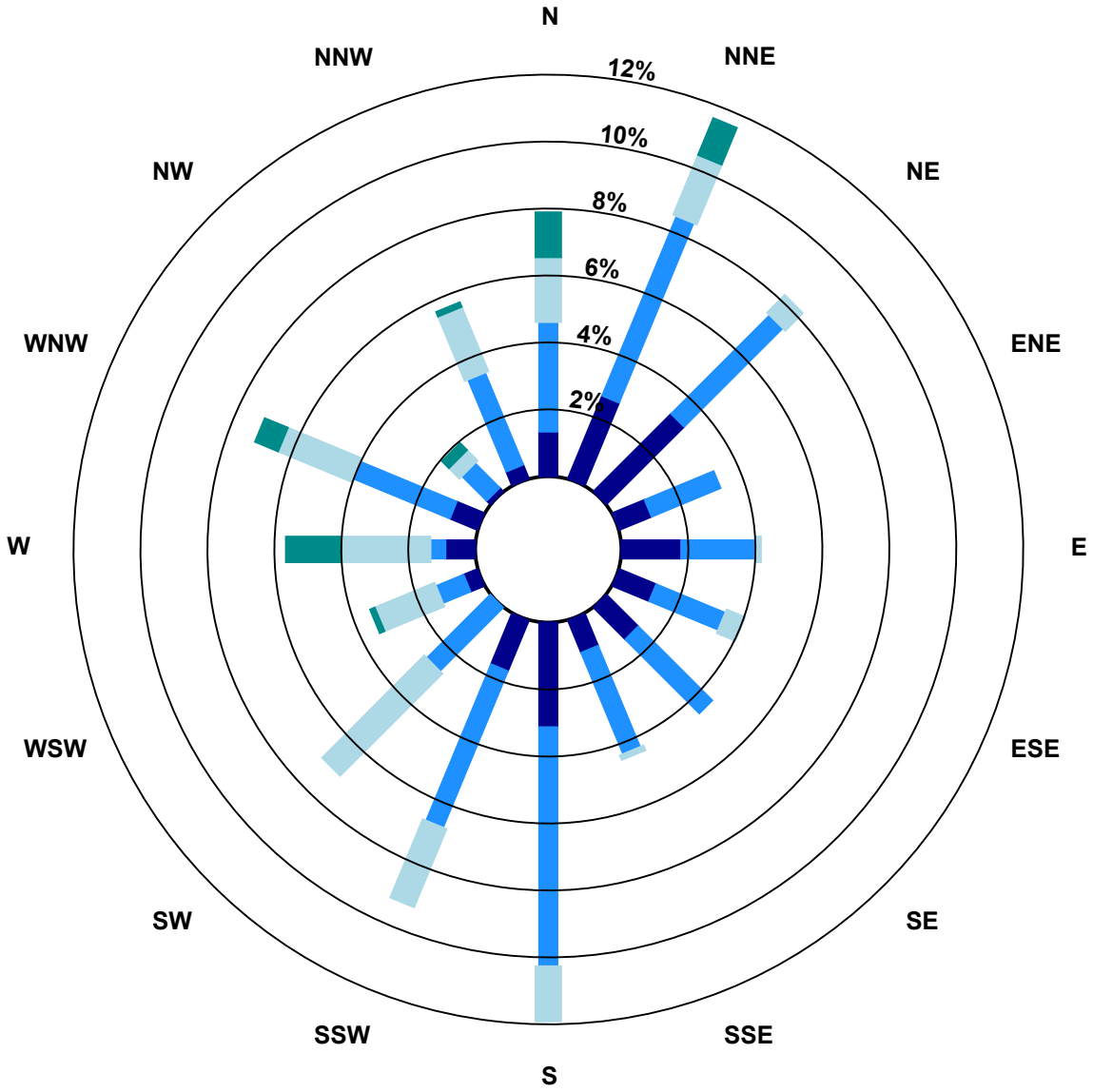
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Sawbones Bay



Classes (km/h)

0 - 5

6 - 11

12 - 19

20 - 28

29 - 38

> 38

Total Number of Valid Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Sawbones Bay - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 7 km/h on Feb 26 13:00

Minimum Value: 0 km/h on Feb 16 09:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 6

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	2	1	3	1	1	2	1	1	1	2	2	3	3	3	3	3	3	3	2	2	2	2	2	2	3
2-Feb	2	2	3	2	2	2	2	2	2	3	3	3	3	3	3	4	3	3	3	2	2	1	1	3	4
3-Feb	2	2	2	1	1	1	2	2	1	2	2	2	2	2	3	2	3	3	3	3	3	3	3	3	3
4-Feb	4	4	4	4	4	3	3	4	3	4	5	5	4	6	5	5	3	3	4	4	4	6	3	4	6
5-Feb	3	4	2	2	2	5	2	2	4	4	2	2	2	3	3	3	2	2	2	2	2	1	2	2	5
6-Feb	2	1	1	1	1	1	1	1	2	1	2	3	2	2	3	2	2	2	1	2	2	2	1	2	3
7-Feb	3	2	2	1	1	2	1	2	1	2	1	1	1	1	2	1	2	2	1	2	2	1	1	1	3
8-Feb	1	1	1	1	1	2	1	2	3	1	2	3	4	3	3	3	3	2	2	2	3	1	2	2	4
9-Feb	1	1	1	2	1	1	2	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	2
10-Feb	1	1	1	1	1	1	1	2	1	1	1	2	1	2	1	2	2	1	1	1	2	2	1	1	2
11-Feb	1	1	1	2	3	2	1	1	3	2	3	4	4	4	4	4	3	1	2	2	3	3	2	2	4
12-Feb	3	4	3	3	3	4	4	4	4	4	4	3	4	4	4	2	3	3	3	3	4	4	4	4	4
13-Feb	3	3	3	3	5	6	5	5	5	5	5	5	4	5	5	5	5	4	4	3	3	2	2	2	6
14-Feb	3	1	1	1	2	2	1	2	1	2	2	3	3	3	4	4	3	2	4	2	3	4	3	4	4
15-Feb	2	2	3	3	2	3	3	2	2	2	2	2	2	2	2	2	3	3	3	3	1	2	1	2	3
16-Feb	1	1	1	1	1	1	1	1	0	1	2	2	2	3	3	2	2	2	2	1	2	3	3	3	3
17-Feb	3	3	3	3	4	4	4	4	4	4	5	5	5	6	7	5	5	4	4	5	5	5	5	5	7
18-Feb	4	5	5	4	4	4	3	3	3	3	3	3	3	3	3	2	2	2	1	1	1	2	1	3	5
19-Feb	3	1	1	2	2	3	3	2	1	3	3	3	3	4	3	3	3	2	1	1	1	1	1	1	4
20-Feb	2	1	2	1	3	2	1	2	2	1	2	1	2	2	3	1	2	1	1	1	1	1	1	1	3
21-Feb	2	1	1	2	2	2	2	3	3	3	4	3	3	3	3	3	2	2	2	2	2	2	2	2	4
22-Feb	1	1	1	1	1	1	1	1	1	2	3	3	3	3	3	3	3	2	2	2	2	2	2	2	3
23-Feb	2	1	1	1	1	3	3	3	3	2	2	3	3	3	3	2	2	1	2	2	1	1	2	2	3
24-Feb	2	3	2	3	2	3	3	3	3	4	3	3	4	3	3	4	2	3	2	1	1	2	2	2	4
25-Feb	2	1	2	2	1	1	1	1	2	4	2	2	2	3	3	3	3	3	1	1	2	2	1	1	4
26-Feb	1	1	2	2	2	2	2	2	2	2	3	2	7	5	5	6	4	7	5	4	5	4	4	4	7
27-Feb	3	2	1	1	2	1	1	1	2	3	2	3	3	2	2	2	2	1	2	2	1	2	1	1	3
28-Feb	2	2	2	2	2	2	1	1	1	2	3	4	3	4	4	4	4	3	3	4	3	2	2	1	4
	4	5	5	4	5	6	5	5	5	5	5	5	7	6	7	6	5	7	5	5	5	6	5	5	
	Diurnal Maximum																								

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Sawbones Bay - February 2026

Direction of Maximum Speed: 303 deg on Feb 26 15:00
Direction of Maximum Daily Speed Average: 18.8 deg on Feb 17

Direction of Minimum Speed: 259 deg on Feb 7 07:00

Direction of Minimum Daily Speed Average: 0.7 deg on Feb 20

Monthly Average Direction: 280.6 deg

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	36	41	56	72	83	106	108	119	110	106	138	144	146	153	138	133	136	141	132	143	153	155	158	164	129.5
2-Feb	158	161	163	164	156	160	167	167	171	181	179	181	190	204	210	214	214	207	249	282	303	296	304	289	195.7
3-Feb	298	13	14	350	6	0	17	24	34	42	6	130	211	204	189	194	176	191	183	178	176	173	176	172	181.7
4-Feb	167	177	182	185	199	194	199	213	227	237	255	261	246	277	284	290	286	266	247	245	251	255	249	224	240.9
5-Feb	220	217	170	227	254	299	359	357	356	358	347	357	360	328	338	329	354	16	31	45	60	73	68	80	353.5
6-Feb	93	105	91	85	84	89	106	88	98	90	101	145	121	115	120	124	135	138	140	172	162	146	167	150	117.6
7-Feb	61	172	187	184	174	188	259	327	28	31	15	23	26	30	33	29	30	33	48	48	62	60	55	48	46.0
8-Feb	47	17	13	4	70	56	282	298	294	172	194	285	300	295	294	298	316	341	345	328	322	2	356	4	318.1
9-Feb	7	11	29	93	116	86	131	104	90	79	64	53	52	42	22	27	30	37	43	39	45	50	48	59	47.3
10-Feb	59	48	55	80	110	130	125	108	90	108	143	158	170	183	185	186	183	175	173	181	188	189	189	189	161.0
11-Feb	189	189	189	189	192	201	202	202	208	204	220	224	227	228	223	235	211	197	205	199	203	206	202	202	208.4
12-Feb	221	228	223	225	234	242	238	238	252	260	264	226	222	225	213	202	202	204	199	196	206	216	228	223	225.7
13-Feb	218	217	217	214	243	260	262	262	262	262	274	273	271	273	279	266	276	252	195	212	223	217	180	196	253.9
14-Feb	197	181	186	182	175	179	177	179	174	180	204	268	269	268	247	258	290	301	276	280	259	256	277	283	249.9
15-Feb	217	198	249	282	287	297	294	293	302	6	4	32	22	17	30	21	9	14	15	21	21	25	31	12	347.9
16-Feb	17	16	15	13	35	53	81	89	71	74	75	81	84	74	70	54	55	56	56	41	52	48	43	45	54.6
17-Feb	43	26	25	31	26	24	25	22	23	21	25	24	22	23	25	20	20	6	10	10	5	7	5	360	18.8
18-Feb	359	0	7	2	359	359	348	348	343	347	343	355	357	342	340	348	2	13	357	338	314	328	272	290	350.6
19-Feb	283	177	165	173	209	198	174	195	188	221	225	215	215	223	220	219	215	203	205	201	188	183	177	174	207.4
20-Feb	176	166	176	172	172	167	169	174	175	196	278	293	182	300	304	6	355	33	32	44	25	32	19	3	134.4
21-Feb	12	4	6	8	13	7	4	17	21	23	47	50	35	20	22	37	41	28	18	44	49	41	43	52	27.0
22-Feb	42	34	41	66	81	83	81	76	76	107	126	118	116	114	113	111	112	90	86	89	103	131	126	118	99.1
23-Feb	134	134	118	141	162	147	182	149	212	297	317	315	294	293	300	298	308	304	328	327	327	311	296	288	293.8
24-Feb	287	268	275	291	291	292	293	266	250	265	240	226	277	235	226	220	265	201	189	182	170	149	153	159	252.0
25-Feb	140	127	123	139	139	147	86	326	335	286	264	246	267	214	231	220	233	269	281	96	197	21	17	18	219.6
26-Feb	34	36	40	72	45	72	79	356	353	332	359	9	261	294	303	305	306	300	320	332	333	328	323	327	326.1
27-Feb	338	343	334	328	320	334	342	337	346	4	344	339	351	356	14	22	33	24	34	25	17	8	40	210	355.3
28-Feb	211	174	177	166	172	164	175	175	178	188	184	205	212	209	200	199	200	194	196	200	203	200	198	187	195.4
	281.1	181.6	134.8	177.1	230.8	263.0	275.5	294.0	297.5	306.0	285.6	268.4	269.7	274.6	281.5	285.4	303.6	319.8	332.8	303.5	267.1	237.0	265.6	278.7	
	Diurnal Average																								

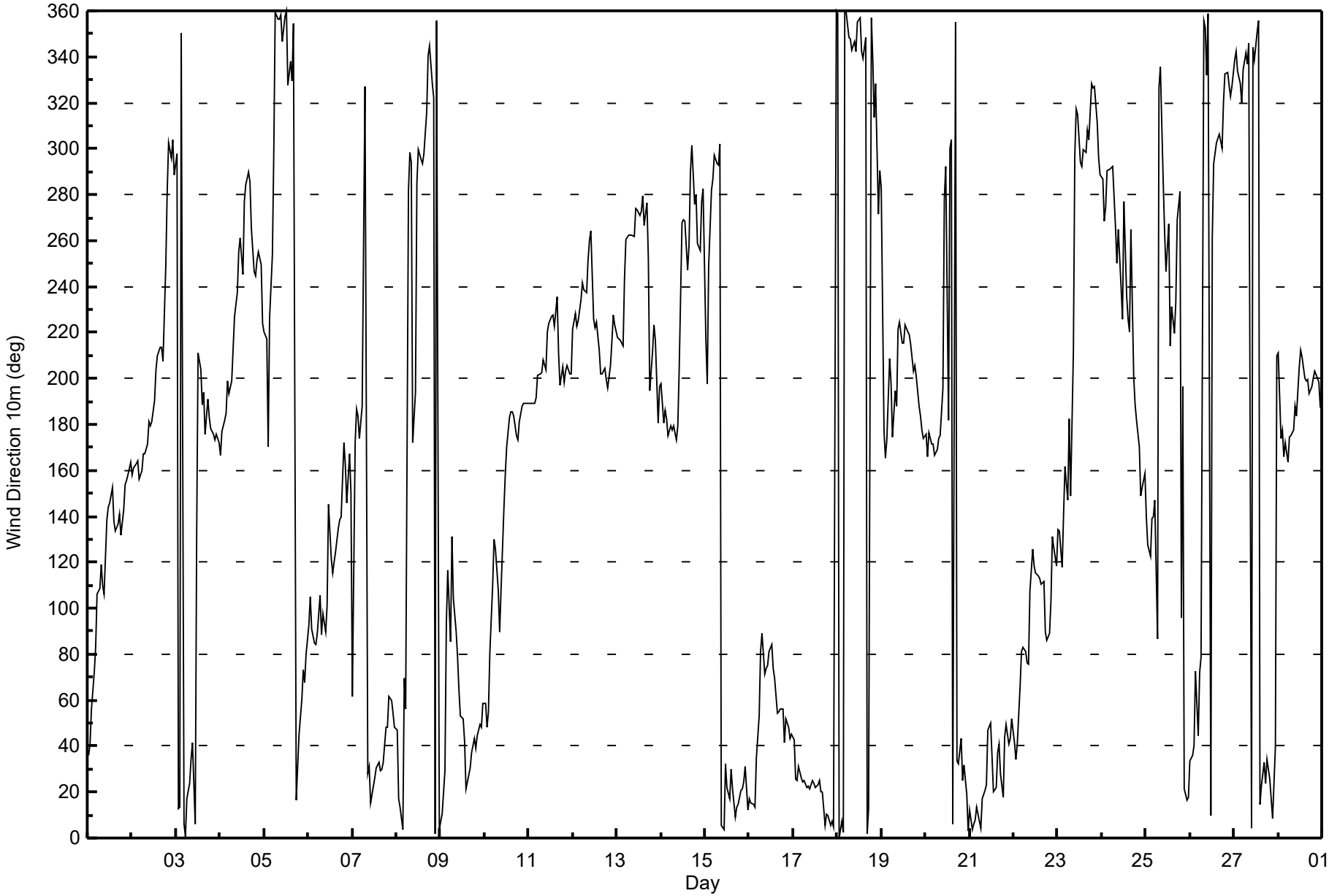
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Sawbones Bay - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Sawbones Bay - February 2026

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 98 deg on Feb 25 19:00

Minimum Value: 0 deg on Feb 11 02:00

Percentiles: P_1 = 0 P_{10} = 10 Q_1 = 13 Median = 16 Q_3 = 20 P_{90} = 31 P_{99} = 76

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	18	23	24	12	10	26	16	17	18	17	21	20	20	18	21	21	19	18	18	17	15	15	16	15	26
2-Feb	14	14	14	15	14	14	13	14	13	12	14	16	16	14	14	14	15	15	31	26	16	8	14	12	31
3-Feb	18	17	16	15	15	15	14	15	21	60	44	71	19	23	23	17	17	16	17	15	15	13	13	14	71
4-Feb	15	18	17	16	15	14	13	18	14	16	14	11	21	20	12	9	10	21	16	17	16	16	18	17	21
5-Feb	13	15	75	24	36	66	14	14	16	18	15	17	16	22	21	16	21	12	14	14	18	13	12	13	75
6-Feb	21	28	12	13	10	14	17	15	17	13	19	21	25	20	20	19	17	14	19	11	13	16	10	81	81
7-Feb	92	12	17	14	21	65	85	49	10	12	14	19	23	22	18	14	18	13	12	12	15	14	12	11	92
8-Feb	16	10	14	25	33	54	32	12	62	20	36	16	11	11	10	11	12	15	13	13	15	14	15	15	62
9-Feb	14	12	35	31	32	49	45	17	28	14	16	70	24	40	16	13	12	15	13	13	12	12	12	17	70
10-Feb	15	19	18	20	19	19	24	26	19	23	26	20	18	21	13	12	10	11	5	7	8	0	0	0	26
11-Feb	0	0	0	0	3	1	0	0	9	11	15	15	16	17	14	23	13	10	11	10	15	16	13	13	23
12-Feb	17	16	14	15	14	16	18	21	19	18	13	22	17	15	15	14	14	15	14	13	16	15	15	16	22
13-Feb	13	13	13	16	16	15	11	11	12	13	16	18	17	16	15	13	13	78	60	16	12	15	26	26	78
14-Feb	53	16	9	7	6	13	7	14	10	13	21	18	17	17	26	23	16	8	17	13	18	13	17	30	53
15-Feb	29	81	51	26	8	9	10	10	22	19	29	27	26	14	12	16	19	14	14	17	13	9	10	20	81
16-Feb	5	6	6	12	7	26	18	24	6	11	14	22	24	21	17	18	13	11	12	12	12	11	12	12	26
17-Feb	13	15	13	12	12	13	13	14	13	13	13	13	13	14	13	14	17	19	18	18	20	20	20	21	21
18-Feb	21	20	17	20	20	19	18	18	15	17	20	23	27	19	21	21	22	13	21	7	8	25	66	12	66
19-Feb	23	52	58	29	15	28	41	29	19	18	18	18	19	17	16	18	15	12	10	10	8	7	7	5	58
20-Feb	27	6	19	57	25	8	8	14	9	27	49	64	70	43	25	53	26	8	6	9	8	14	21	19	70
21-Feb	16	20	19	15	16	20	20	17	13	17	24	21	26	17	17	20	17	16	15	13	11	13	15	11	26
22-Feb	15	12	10	11	8	9	8	8	9	20	21	25	23	18	17	16	16	14	10	11	17	18	19	17	25
23-Feb	22	18	14	18	11	67	62	70	57	17	23	48	35	19	14	11	14	9	20	13	11	10	10	7	70
24-Feb	8	17	13	9	9	9	14	9	18	20	25	20	28	30	21	20	44	31	12	10	15	15	14	11	44
25-Feb	16	16	16	17	16	13	79	16	23	63	45	36	36	18	31	20	31	19	98	36	55	55	13	12	98
26-Feb	13	22	20	14	19	15	23	35	29	34	59	37	49	17	13	12	15	15	14	14	14	13	11	13	59
27-Feb	15	18	14	10	20	9	16	12	19	21	24	36	29	28	36	18	14	9	10	7	6	19	11	75	75
28-Feb	67	13	9	43	54	15	9	7	8	23	18	20	21	21	21	18	15	13	14	14	12	13	13	9	67
	92	81	75	57	54	67	85	70	62	63	59	71	70	43	36	53	44	78	98	36	55	55	66	81	
	Diurnal Maximum																								

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS507
KIRBY SOUTH
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - KIRBY SOUTH (AMS 507)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	639	32	33	99.85	9.6	0	2.2	0
H2S (ppb) Average	636	35	36	99.85	1.6	0	0.4	0
THC (ppm) Average	636	35	36	99.85	2.8	-	2.6	-
NO2 (ppb) Average	638	34	34	100	79.6	0	19.7	-
NO (ppb) Average	638	34	34	100	102.2	-	34	-
NOX (ppb) Average	638	34	34	100	171.8	-	53.6	-
Temperature 2 m (C) Average	672	0	0	100	8.1	-	2.1	-
Relative Humidity (%) Average	672	0	0	100	97.4	-	95.3	-
Wind Speed 10 m (km/h) Average	621	0	51	92.41	27	-	23	-
Wind Direction 10 m (deg) Average	621	0	51	92.41	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - KIRBY SOUTH(AMS507)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	639	0.7	1.1	-	0	0	0.1	0.3	0.7	1.7	9.6
H2S (ppb) Average	636	0.1	0.1	-	0	0	0	0.1	0.1	0.2	1.6
THC (ppm) Average	636	2.39	0.1	-	2.1	2.3	2.3	2.4	2.4	2.5	2.8
NO2 (ppb) Average	638	4.14	6.3	-	0.2	0.9	1.4	2.5	4.2	8.3	79.6
NO (ppb) Average	638	2.48	10.3	-	0	0	0	0.3	1.4	3.8	102.2
NOX (ppb) Average	638	6.61	15.5	-	0.2	0.9	1.6	2.9	5.6	11.7	171.8
Temperature 2 m (C) Average	672	-10.59	9.9	-	-33.3	-25.1	-19.1	-8.6	-2.5	0.9	8.1
Relative Humidity (%) Average	672	77.08	13.6	-	33	59.4	70.5	77.1	88.6	94.6	97.4
Wind Speed 10 m (km/h) Average	621	12	5	-	2	6	8	11	15	19	27
Wind Direction 10 m (deg) Average	621	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - KIRBY SOUTH (AMS507)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
H2S, SO2, THC	20 Feb 2026 15:00	20 Feb 2026 15:00	1	Maintenance - sample manifold cleaned
Wind Speed, Wind Direction	07 Feb 2026 10:00	09 Feb 2026 12:00	51	Flat line in sensor output signal - Sensor frozen

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Kirby South - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 9.6 ppb on Feb 4 14:00 Maximum Daily Average: 2.2 ppb on Feb 13

Minimum Value: 0.0 ppb on Feb 2 21:00 Minimum Daily Average: 0.1 ppb on Feb 3

Maximum Diurnal Average: 1.3 ppb at hour 11 Minimum Diurnal Average: 0.4 ppb at hour 18

Monthly Average: 0.70 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.1 Median = 0.3 Q_3 = 0.7 P_{90} = 1.7 P_{99} = 5.9

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	32
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.5	0.8	1.3	1.3	1.0	1.1	1.1	1.1	0.9	1.2	1.1	0.5	0.6	0.4	0.6	0.3	0.3	0.1	0.2	0.5	0.5	0.1	0.1	0.7	1.3
2-Feb	0.2	Z	0.4	0.5	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.5
3-Feb	0.3	0.2	Z	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.3
4-Feb	0.1	0.1	0.2	Z	0.0	0.1	0.0	0.1	0.8	3.0	3.0	2.3	5.8	9.6	3.3	0.0	0.0	0.1	0.0	0.3	0.5	0.0	0.5	0.0	1.3	9.6
5-Feb	0.0	0.0	0.0	0.5	Z	0.7	0.1	0.2	0.2	0.2	0.5	0.5	0.5	0.8	0.4	0.4	0.5	0.8	1.1	0.9	0.7	0.7	0.6	0.5	0.5	1.1
6-Feb	0.3	0.3	0.4	0.3	0.5	Z	0.7	0.6	0.6	0.6	0.7	0.7	0.5	0.5	0.7	0.6	0.6	0.6	0.8	1.0	0.7	0.3	0.1	0.1	0.5	1.0
7-Feb	Z	0.5	0.2	0.2	0.1	1.5	0.1	0.3	0.1	0.1	0.5	0.9	2.0	0.3	0.4	0.6	0.9	0.9	0.5	0.5	0.4	0.3	0.2	0.2	0.5	2.0
8-Feb	0.2	Z	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.8	1.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.4	0.3	0.1	0.0	0.2	1.1
9-Feb	0.1	0.4	Z	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	1.9	0.7	0.6	0.3	0.4	0.3	0.8	0.9	0.5	0.5	0.7	0.4	0.2	0.4	1.9
10-Feb	0.2	0.2	0.2	Z	0.6	0.6	0.7	0.6	0.7	0.5	0.4	0.8	0.9	0.7	0.5	0.9	0.6	0.4	0.4	0.5	0.7	1.1	1.1	1.0	0.6	1.1
11-Feb	0.9	0.8	0.6	0.4	Z	0.2	0.0	0.1	0.0	0.1	0.2	0.2	1.6	1.7	2.0	0.3	0.2	0.0	0.2	0.2	0.1	0.2	0.3	0.3	0.5	2.0
12-Feb	0.2	0.1	0.4	5.1	6.0	Z	6.6	1.0	2.2	2.6	0.9	1.6	0.3	0.7	0.3	0.2	0.2	0.1	0.2	0.5	0.5	0.5	2.1	1.2	1.5	6.6
13-Feb	Z	6.9	5.6	2.2	7.1	5.2	0.8	5.6	1.5	3.5	4.5	1.1	0.1	0.2	0.3	3.8	1.9	0.5	0.1	0.0	0.1	0.2	0.1	0.1	2.2	7.1
14-Feb	0.1	Z	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.6	0.1	0.1	0.1	1.2	0.6	0.1	0.1	0.2	0.1	0.3	0.1	0.0	0.2	1.2
15-Feb	0.2	0.1	Z	0.1	0.2	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.4	0.3	0.7	2.1	2.2	1.3	2.4	1.7	2.2	1.9	5.0	3.6	1.1	5.0
16-Feb	3.1	2.0	0.9	Z	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.4	3.1
17-Feb	0.0	0.1	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.5	0.7	0.6	0.6	0.3	0.7	0.6	0.2	0.7
18-Feb	0.6	0.8	0.8	1.0	0.7	Z	1.1	2.1	1.4	2.2	1.9	1.4	1.0	0.9	0.6	0.3	0.4	0.6	0.6	0.7	0.8	0.9	1.1	1.4	1.0	2.2
19-Feb	Z	1.4	0.7	0.6	0.5	0.2	0.1	0.2	0.1	0.4	1.8	1.1	0.1	0.8	1.5	0.1	C	C	C	C	0.0	0.0	0.3	0.6	0.5	1.8
20-Feb	0.7	Z	0.8	0.6	0.5	0.4	0.3	0.3	0.9	1.7	7.1	5.6	3.3	1.5	M	0.5	0.4	0.3	0.3	1.3	1.4	1.8	1.2	0.9	1.4	7.1
21-Feb	0.7	0.5	Z	0.6	1.1	1.7	1.6	2.6	2.2	0.7	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.6	2.6
22-Feb	0.1	0.1	0.1	Z	0.1	0.3	0.1	0.2	0.2	0.4	0.2	0.3	0.3	0.6	0.5	0.4	0.1	0.1	0.2	0.1	0.0	0.2	0.1	0.2	0.2	0.6
23-Feb	0.3	0.4	0.4	0.3	Z	0.4	0.3	0.3	0.2	0.2	0.3	0.8	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.2	0.1	0.1	0.1	0.3	0.8
24-Feb	0.1	0.0	0.0	0.0	0.0	Z	0.0	0.1	0.1	0.5	1.1	1.2	1.4	0.3	1.2	0.9	0.2	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.3	1.4
25-Feb	Z	0.4	0.5	0.6	0.4	0.3	0.2	0.4	0.0	0.1	0.2	0.2	0.7	1.5	0.4	0.6	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	1.5
26-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	1.2	3.0	1.6	5.4	6.0	1.0	0.2	0.2	0.6	0.8	0.8	1.4	0.8	1.4	2.5	2.6	3.6	1.4	6.0
27-Feb	3.1	2.4	Z	3.5	2.8	3.3	3.5	2.8	2.9	3.8	2.5	1.2	1.0	1.0	0.8	1.1	1.5	2.0	1.3	0.5	0.3	0.3	0.1	0.1	1.8	3.8
28-Feb	0.1	0.5	0.3	Z	0.0	0.1	0.6	0.3	0.4	0.5	0.6	0.6	0.3	0.2	0.6	0.6	0.3	0.4	0.5	0.4	0.5	0.5	0.6	0.5	0.4	0.6
	0.5	0.8	0.6	0.8	1.0	0.7	0.7	0.8	0.7	0.9	1.3	1.1	0.8	0.9	0.6	0.6	0.5	0.4	0.5	0.4	0.5	0.5	0.6	0.6	Diurnal Average	
	3.1	6.9	5.6	5.1	7.1	5.2	6.6	5.6	3.0	3.8	7.1	6.0	5.8	9.6	3.3	3.8	2.2	2.0	2.4	1.7	2.2	2.5	5.0	3.6	Diurnal Maximum	

Z - zerospan C - Calibration M - Maintenance

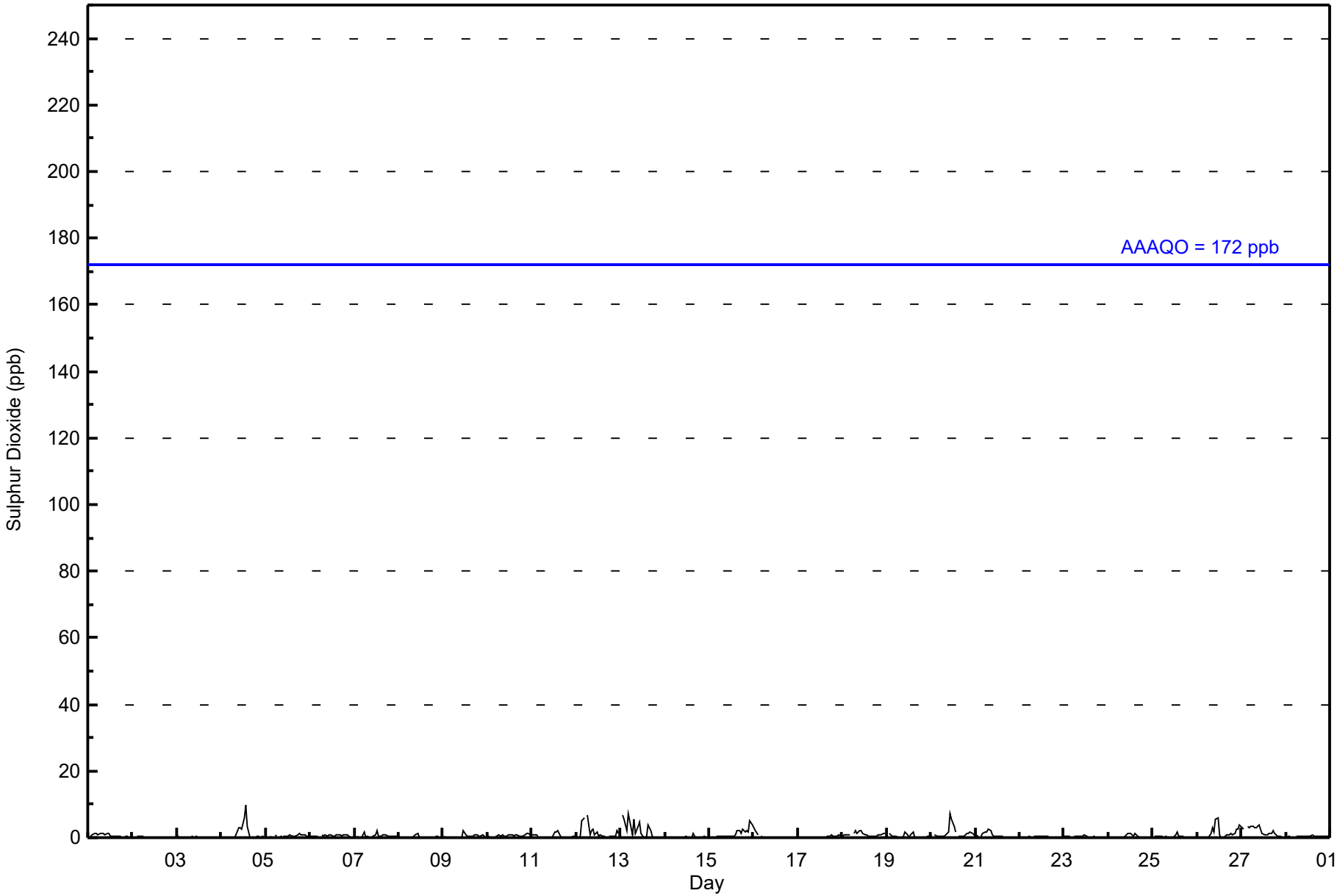
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Kirby South - February 2026



Sulphur Dioxide (SO_2) - ppb
Kirby South - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	639	100.00	100.00
11 - 20	0	0.00	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Kirby South - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	18	35	45	30	15	25	16	18	36	49	111	48	73	28	15	28	590
11 - 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	18	35	45	30	15	25	16	18	36	49	111	48	73	28	15	28	590

Total Number of Valid Hours: 590

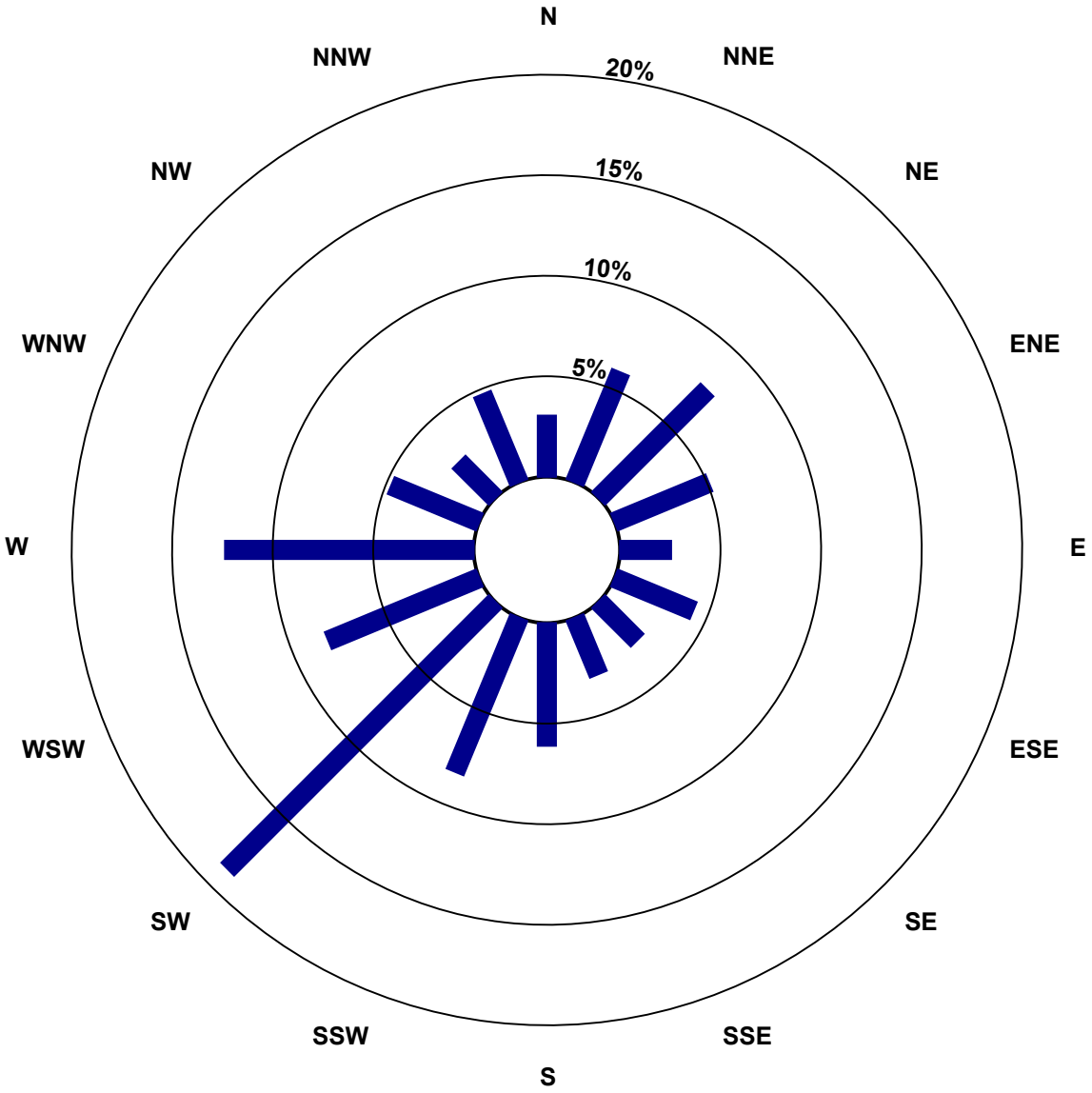
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Kirby South



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

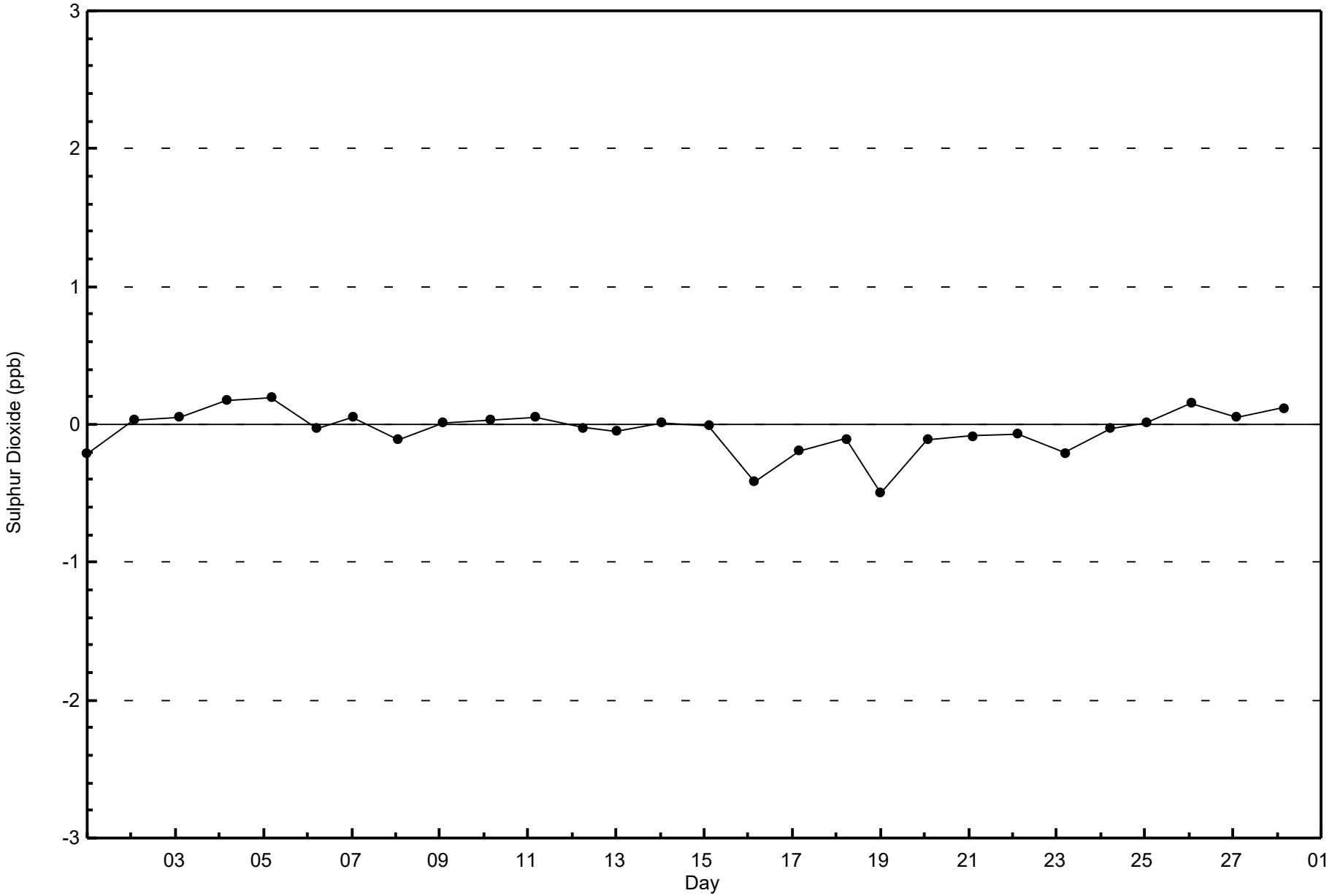
Total Number of Valid Hours: 590

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Kirby South - February 2026

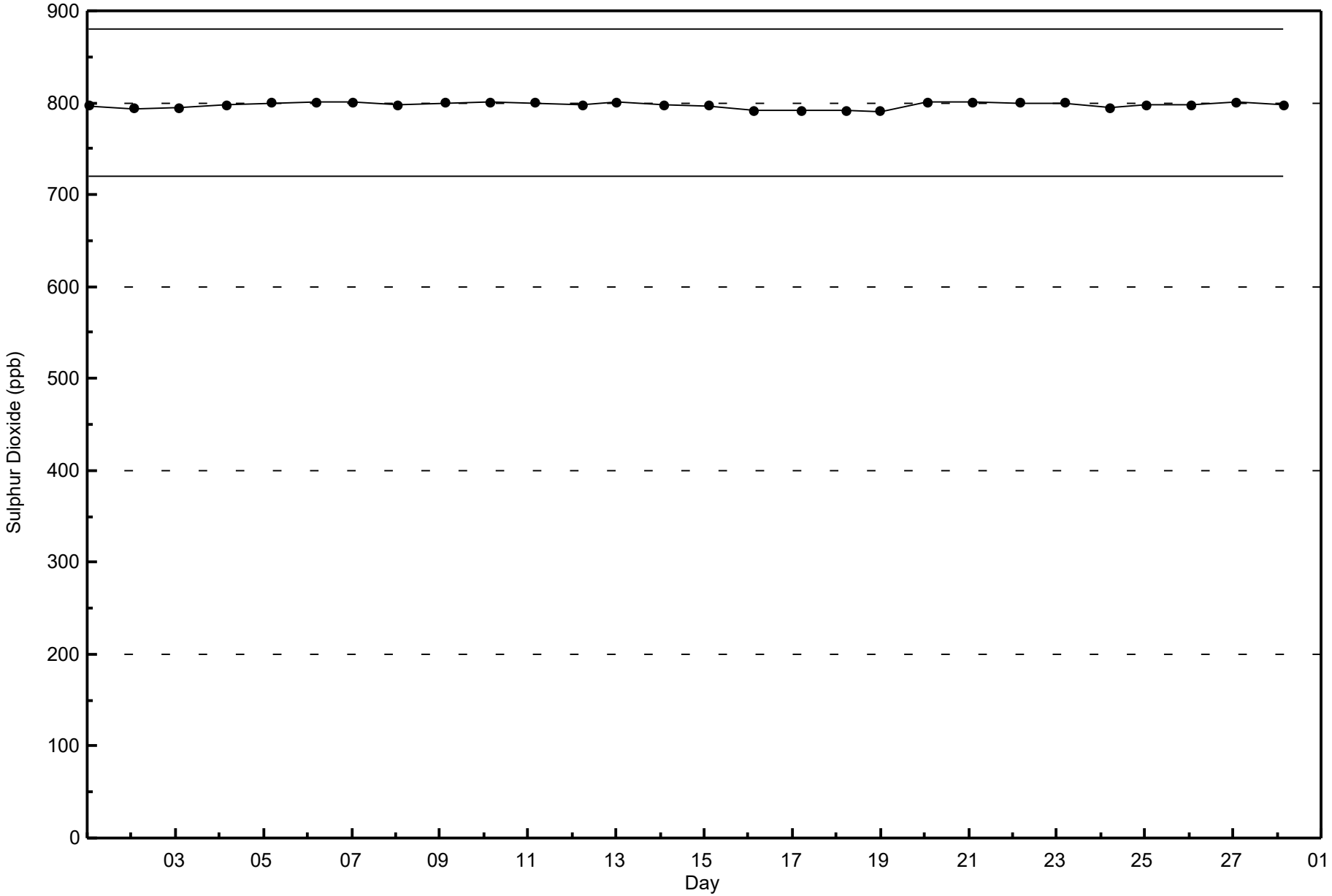


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Kirby South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Kirby South - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 1.6 ppb on Feb 27 18:00 Maximum Daily Average: 0.4 ppb on Feb 27

Minimum Value: 0.0 ppb on Feb 4 17:00 Minimum Daily Average: 0.0 ppb on Feb 17
Maximum Diurnal Average: 0.1 ppb at hour 6 Minimum Diurnal Average: 0.1 ppb at hour 14
Monthly Average: 0.10 ppb Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.1 P_{90} = 0.2 P_{99} = 0.6

Hours in Service:	672
Hours of Data:	636
Hours of Missing Data:	36
Hours of Calibration:	35
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.1	Z	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
2-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2
3-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
4-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.1
5-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
10-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11-Feb	0.2	0.2	0.3	0.2	0.2	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.3
12-Feb	Z	0.1	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
13-Feb	0.1	Z	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2
14-Feb	0.2	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.2
15-Feb	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.3
16-Feb	0.1	0.1	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
17-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1
19-Feb	0.1	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	C	C	C	C	C	C	C	0.0	0.0	0.0	0.0	--	0.2
20-Feb	0.0	0.0	Z	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.1	M	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
21-Feb	0.1	0.1	0.1	Z	0.2	0.2	0.2	0.3	0.2	0.2	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	0.1	0.3
22-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
23-Feb	0.0	0.0	0.0	0.0	0.1	Z	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.3	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
24-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1
25-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
26-Feb	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.7	0.1	0.7
27-Feb	0.5	0.7	0.6	Z	0.6	0.9	0.8	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.6	0.9	0.3	0.3	0.1	0.1	0.2	0.4	1.6
28-Feb	0.1	0.2	0.2	0.1	Z	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Diurnal Average	
	0.5	0.7	0.6	0.2	0.6	0.9	0.8	0.3	0.4	0.2	0.2	0.2	0.1	0.1	0.3	0.3	0.3	1.6	0.9	0.3	0.3	0.2	0.2	0.7	Diurnal Maximum	

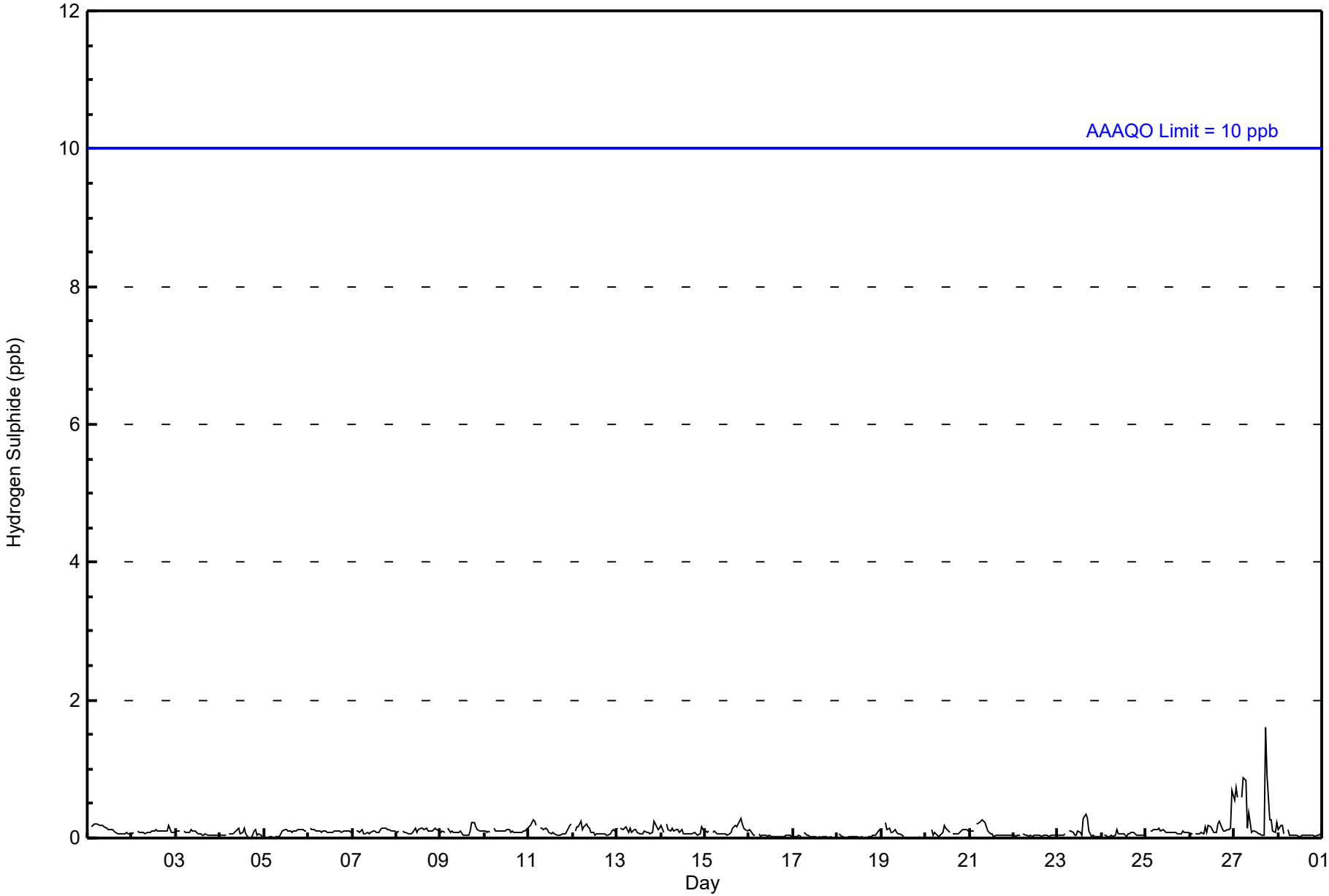
Z - zerospan C - Calibration M - Maintenance
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Kirby South - February 2026



Hydrogen Sulphide (H_2S) - ppb

Kirby South - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	636	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 636

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Kirby South - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	18	35	45	29	15	26	17	18	36	48	110	45	74	28	16	27	587
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	18	35	45	29	15	26	17	18	36	48	110	45	74	28	16	27	587

Total Number of Valid Hours: 587

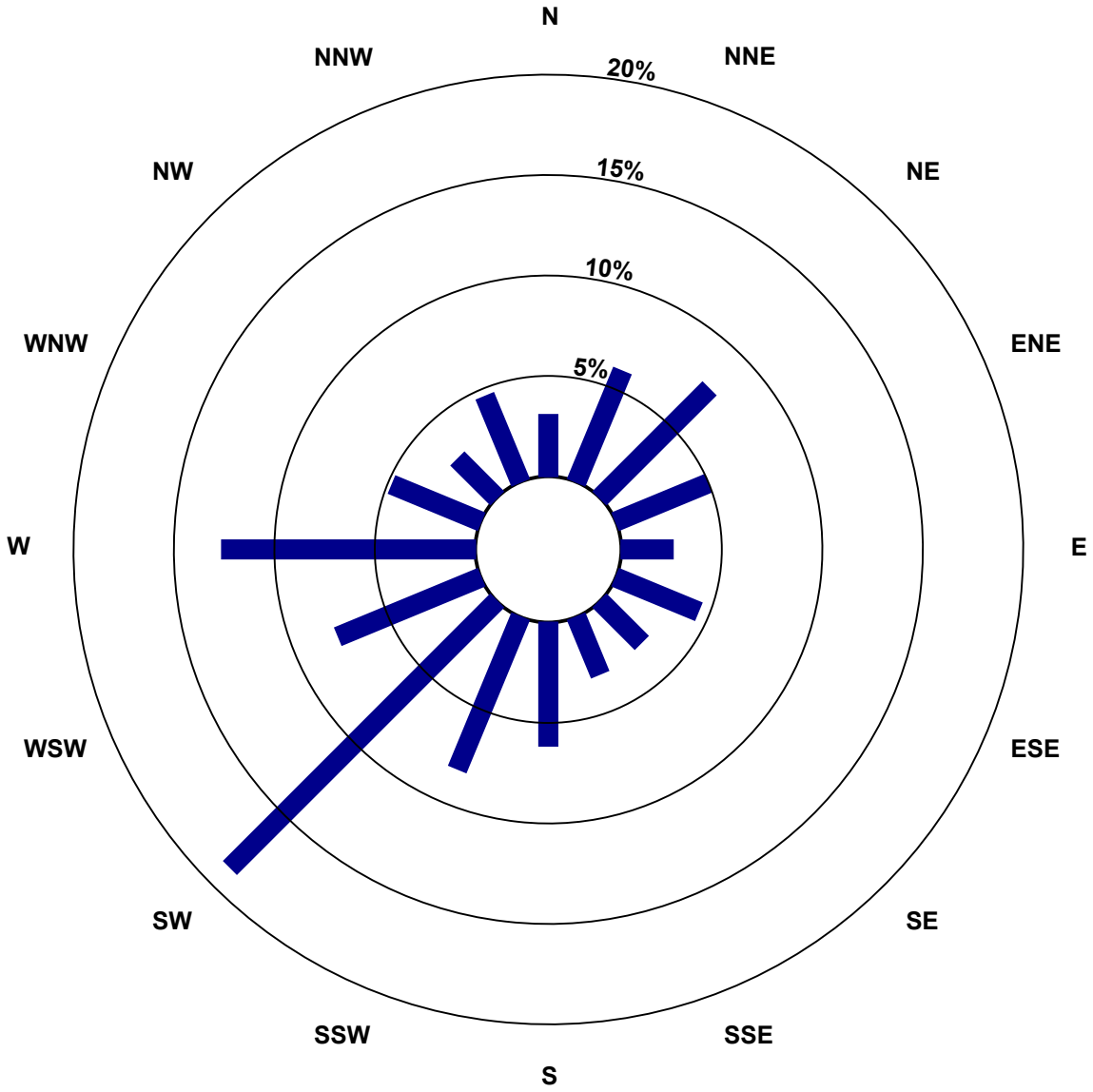
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Kirby South



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

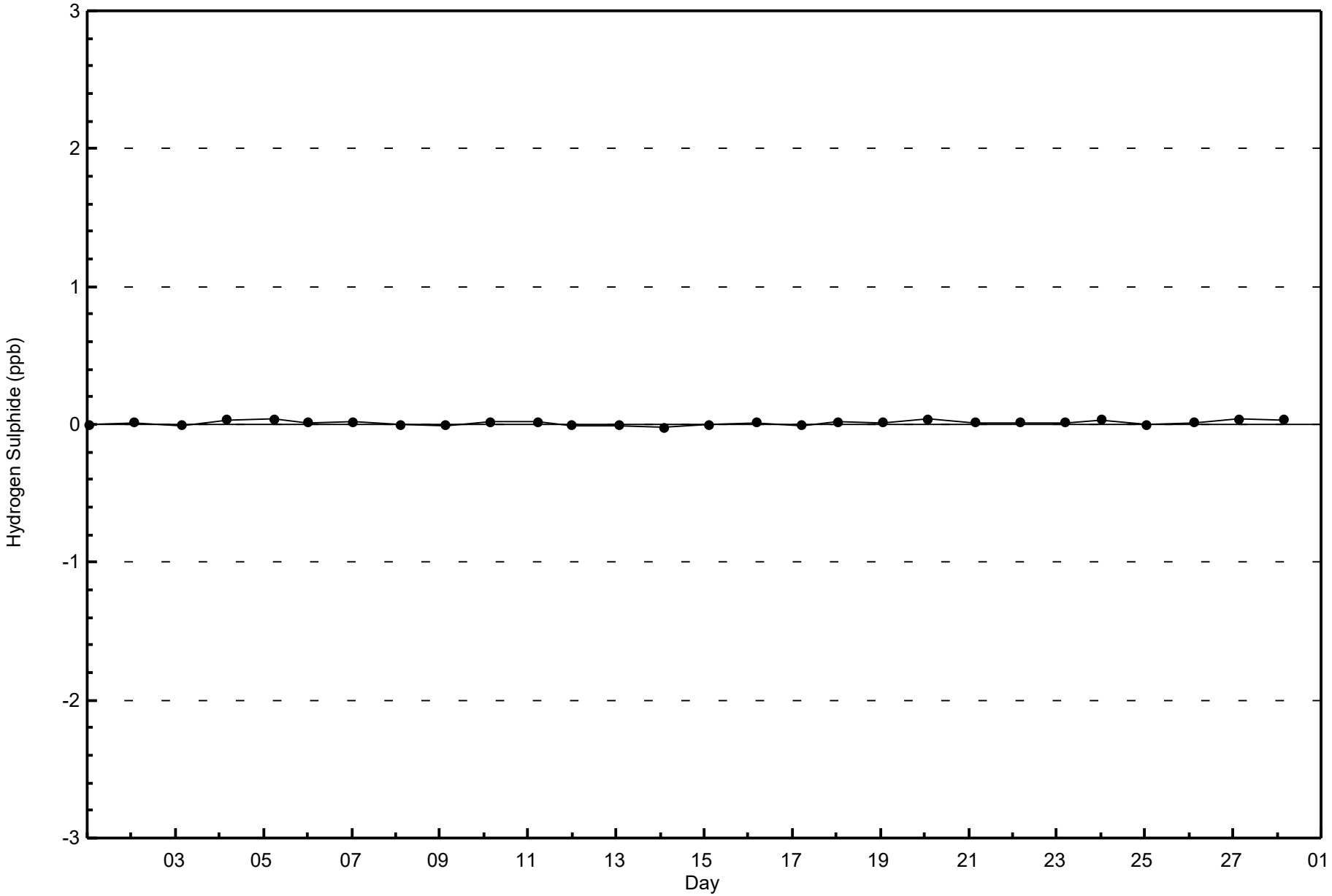
Total Number of Valid Hours: 587

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Kirby South - February 2026

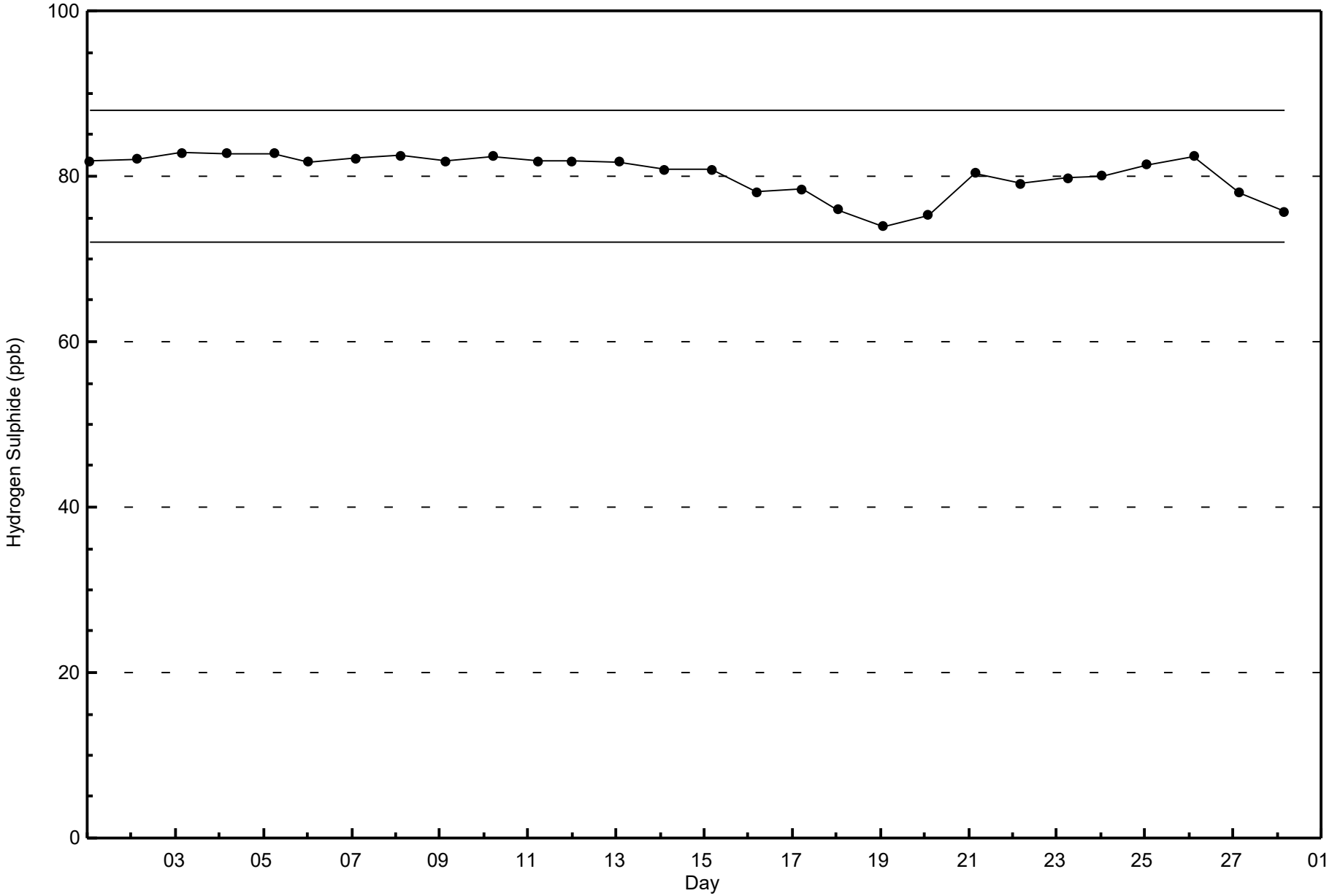


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Kirby South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbons (THC) - ppm

Kirby South - February 2026

Maximum Value: 2.8 ppm on Feb 27 06:00

Maximum Daily Average: 2.6 ppm on Feb 27

Minimum Value: 2.1 ppm on Feb 26 13:00

Minimum Daily Average: 2.3 ppm on Feb 12

Maximum Diurnal Average: 2.4 ppm at hour 5

Minimum Diurnal Average: 2.3 ppm at hour 13

Monthly Average: 2.39 ppm

Percentiles: P_1 = 2.2 P_{10} = 2.3 Q_1 = 2.3 Median = 2.4 Q_3 = 2.4 P_{90} = 2.5 P_{99} = 2.7

Hours in Service:	672
Hours of Data:	636
Hours of Missing Data:	36
Hours of Calibration:	35
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5
2-Feb	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.5	2.6	2.4	2.4	2.4	2.5	2.4	2.6
3-Feb	2.4	2.5	Z	2.5	2.4	2.4	2.5	2.5	2.7	2.6	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.7
4-Feb	2.3	2.3	2.3	Z	2.3	2.3	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.3	2.4	2.3	2.2	2.2	2.3	2.3	2.4
5-Feb	2.2	2.2	2.2	2.2	Z	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.6
6-Feb	2.4	2.4	2.4	2.4	2.4	Z	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.5
7-Feb	Z	2.4	2.5	2.5	2.5	2.4	2.5	2.5	2.4	2.4	2.5	2.5	2.4	2.4	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5
8-Feb	2.4	Z	2.6	2.5	2.4	2.4	2.3	2.3	2.4	2.4	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.4	2.6
9-Feb	2.5	2.3	Z	2.4	2.4	2.5	2.4	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5
10-Feb	2.4	2.4	2.4	Z	2.4	2.3	2.4	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.4	2.5
11-Feb	2.4	2.4	2.4	2.4	Z	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
12-Feb	2.3	2.4	2.4	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.3	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
13-Feb	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.5	2.4	2.4	2.3	2.4	2.3	2.3	2.5
14-Feb	2.3	Z	2.4	2.4	2.6	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.4	2.4	2.4	2.4	2.6
15-Feb	2.5	2.4	Z	2.4	2.4	2.4	2.4	2.4	2.3	2.5	2.4	2.5	2.3	2.3	2.5	2.7	2.6	2.6	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.7
16-Feb	2.4	2.4	2.4	Z	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
17-Feb	2.4	2.4	2.4	2.3	Z	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.4	2.6
18-Feb	2.6	2.6	2.6	2.6	2.6	Z	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.4	2.5	2.5	2.4	2.3	2.3	2.5	2.4	2.8	2.6	2.5	2.8
19-Feb	Z	2.6	2.5	2.5	2.5	2.4	2.4	2.4	2.3	2.3	2.3	2.2	2.2	C	C	C	C	C	C	C	2.3	2.4	2.4	2.4	--	2.6
20-Feb	2.4	Z	2.4	2.5	2.4	2.6	2.4	2.5	2.5	2.5	2.5	2.4	2.4	2.3	M	2.3	2.3	2.3	2.5	2.7	2.6	2.5	2.5	2.7	2.5	2.7
21-Feb	2.6	2.6	Z	2.7	2.7	2.6	2.7	2.8	2.7	2.5	2.5	2.4	2.4	2.5	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.5	2.8
22-Feb	2.3	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.3	2.4
23-Feb	2.3	2.3	2.3	2.3	Z	2.3	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.5	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.5
24-Feb	2.4	2.4	2.4	2.4	2.4	Z	2.4	2.5	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.5
25-Feb	Z	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.4	2.5	2.5	2.4	2.5
26-Feb	2.4	Z	2.4	2.4	2.4	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.3	2.5
27-Feb	2.5	2.6	Z	2.6	2.7	2.8	2.8	2.7	2.6	2.5	2.6	2.6	2.5	2.5	2.5	2.6	2.5	2.6	2.5	2.5	2.7	2.7	2.5	2.8	2.6	2.8
28-Feb	2.5	2.4	2.6	Z	2.6	2.5	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.6
	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	Diurnal Average	
	2.6	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.7	2.6	2.6	2.6	2.5	2.5	2.5	2.7	2.6	2.6	2.5	2.7	2.7	2.7	2.8	2.8	Diurnal Maximum	

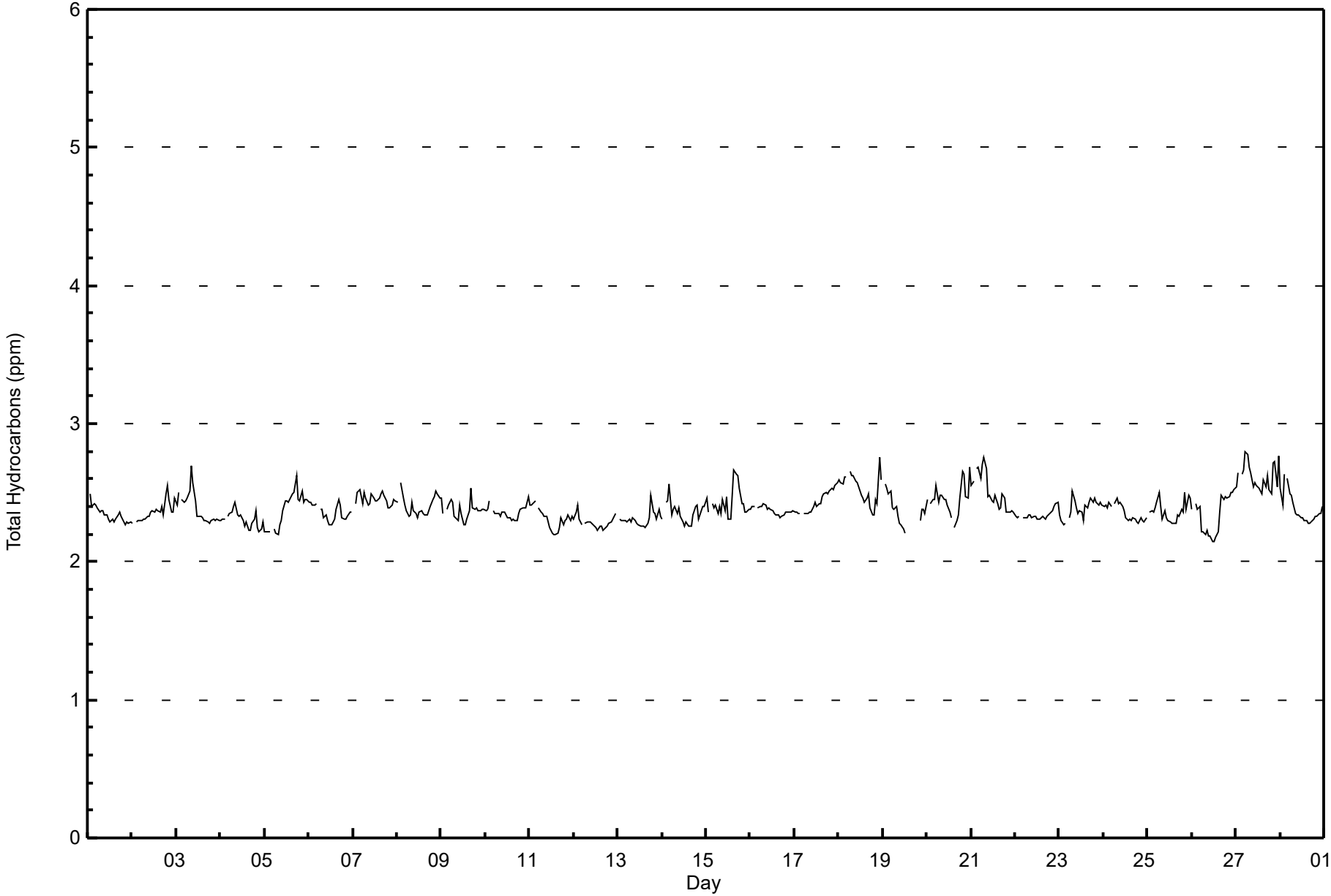
Z - zerospan C - Calibration M - Maintenance

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbons (THC) - ppm

Kirby South - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Total Hydrocarbons (THC) - ppm

Kirby South - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	0	0.00	0.00
2.1 - 3.0	636	100.00	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 636

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbons (THC) - ppm

Kirby South - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.1 - 3.0	18	35	45	30	15	25	16	18	36	49	110	46	73	28	15	28	587
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	18	35	45	30	15	25	16	18	36	49	110	46	73	28	15	28	587

Total Number of Valid Hours: 587

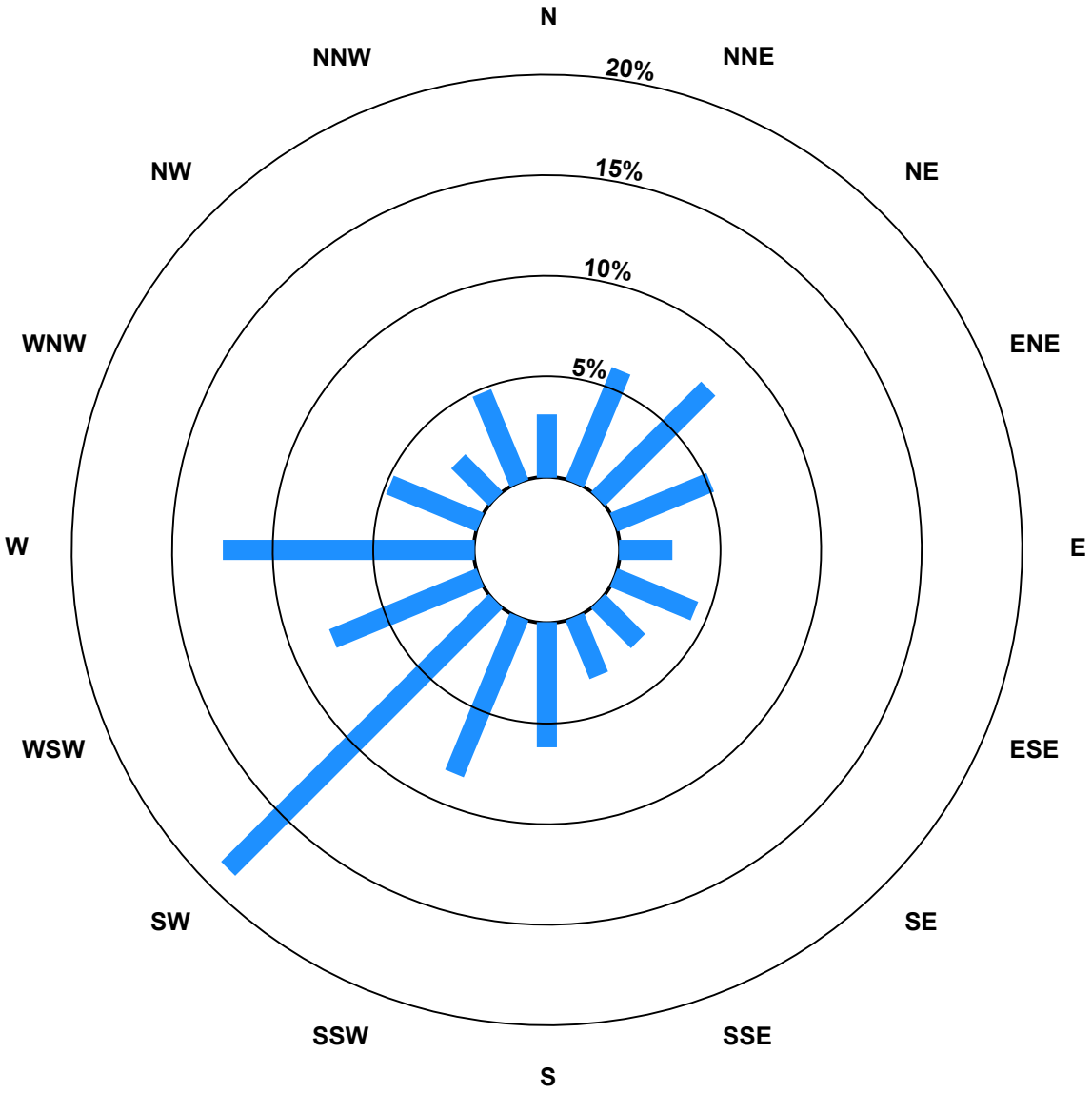
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbons (THC) - ppm

Kirby South



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

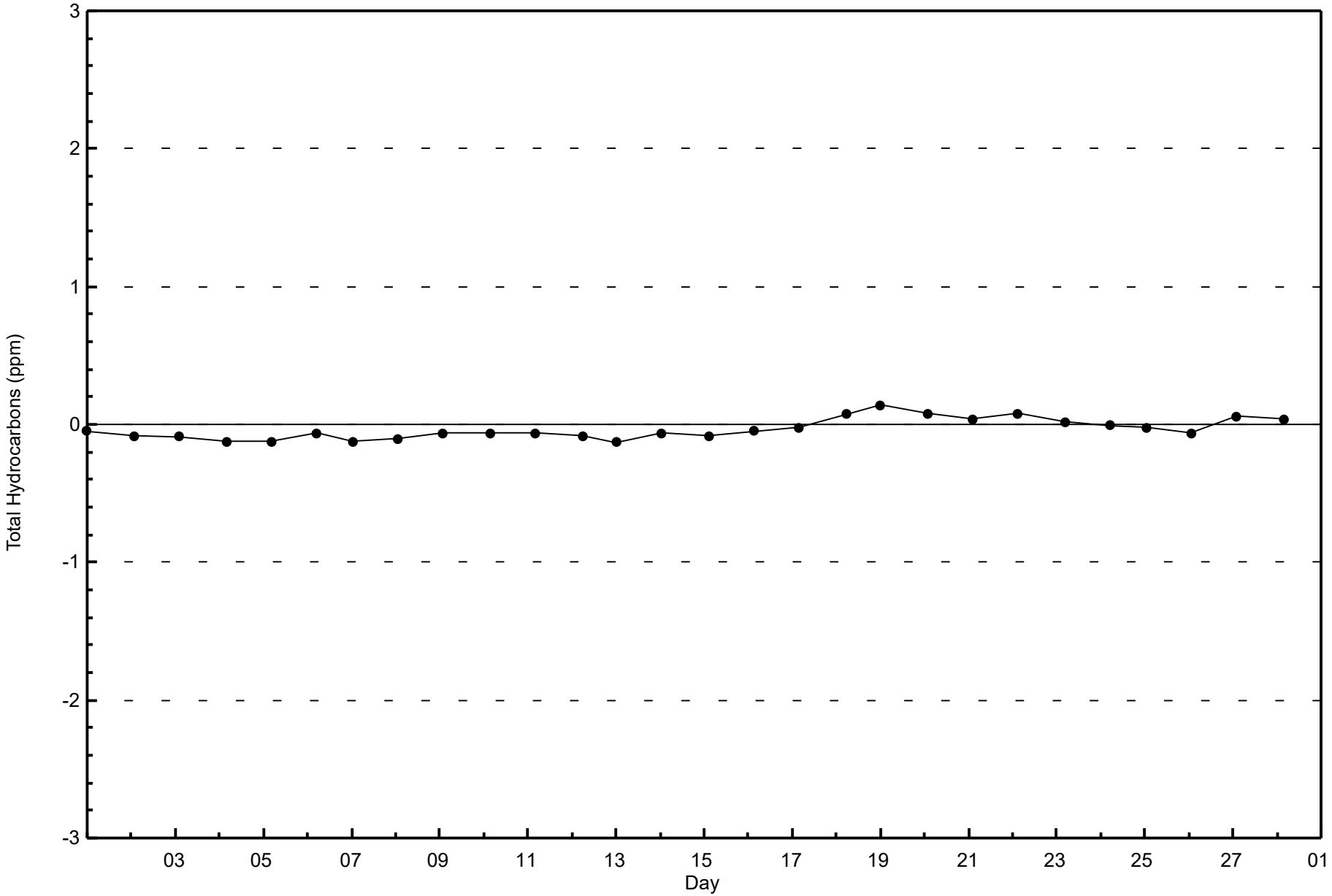
Total Number of Valid Hours: 587

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbons (THC) - ppm

Kirby South - February 2026

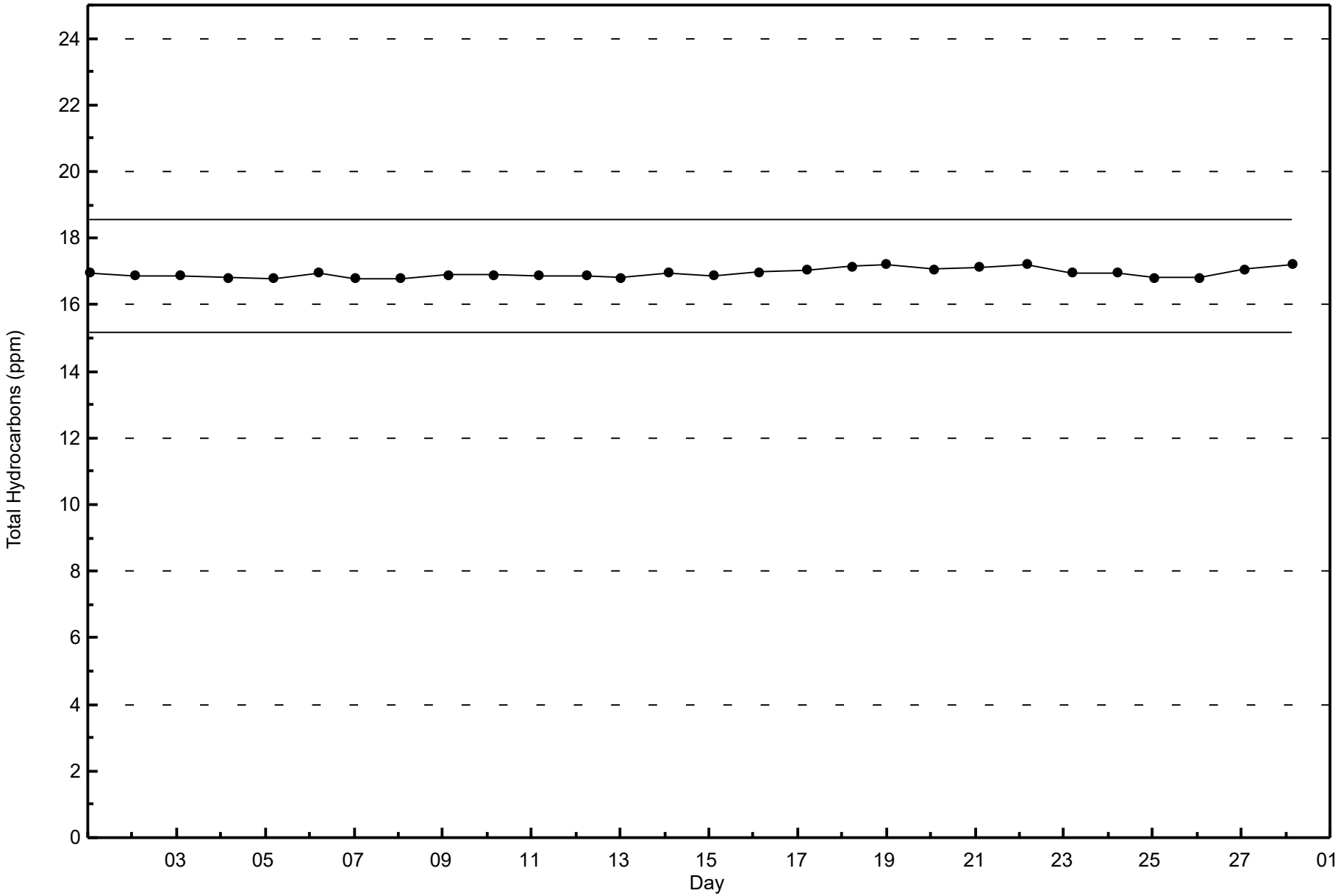


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbons (THC) - ppm

Kirby South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitric Oxide (NO) - ppb

Kirby South - February 2026

Maximum Value: 102.2 ppb on Feb 27 06:00

Maximum Daily Average: 34.0 ppb on Feb 27

Minimum Value: 0.0 ppb on Feb 1 01:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 5.5 ppb at hour 2

Minimum Diurnal Average: 0.7 ppb at hour 17

Monthly Average: 2.48 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.3 Q_3 = 1.4 P_{90} = 3.8 P_{99} = 71.9

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.1	0.2	0.6	0.6	0.5	0.5	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6
2-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.1	0.1	1.4	2.2	1.4	3.1	1.3	0.5	0.4	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.5	3.1
3-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	0.6	0.5	0.2	0.1	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8
4-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	3.7	3.2	6.7	9.1	3.2	0.2	0.1	0.1	1.4	1.2	0.4	0.1	0.3	0.0	1.5	9.1
5-Feb	0.0	0.0	Z	0.5	0.2	0.5	0.0	0.1	0.5	0.7	0.3	0.8	1.0	0.7	0.6	0.5	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.3	1.0
6-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.8	0.7	0.6	0.5	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8
7-Feb	0.1	0.4	0.1	0.1	Z	1.1	0.1	0.1	0.2	0.6	1.4	2.4	3.4	1.5	2.0	1.1	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.4
8-Feb	0.0	0.0	0.0	0.0	0.0	Z	0.0	0.1	0.1	1.3	2.0	0.9	1.7	2.0	3.1	1.9	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.1
9-Feb	Z	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.2	1.3	0.4	2.4	0.9	0.8	1.1	2.1	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.4
10-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.6	1.8	2.2	5.5	4.9	1.6	1.0	0.5	0.1	0.0	0.0	0.1	0.5	0.4	6.2	1.2	6.2
11-Feb	6.0	10.5	Z	14.1	7.6	8.9	3.7	4.3	6.3	7.0	6.2	2.1	1.5	1.4	1.5	0.4	0.2	0.5	0.6	2.3	1.2	4.5	11.3	12.7	5.0	14.1
12-Feb	11.9	0.6	0.5	Z	3.4	1.5	3.4	0.6	1.4	1.8	0.7	1.2	0.5	0.5	0.2	0.6	2.1	1.3	0.0	0.0	1.2	3.3	2.3	0.4	1.7	11.9
13-Feb	0.1	4.1	3.3	1.3	Z	2.9	0.3	3.3	0.9	2.5	3.6	1.0	0.5	0.6	0.8	2.5	1.3	0.5	0.0	2.1	13.4	8.8	3.8	4.6	2.7	13.4
14-Feb	6.9	0.7	3.8	9.6	2.7	Z	4.0	1.6	5.4	4.0	1.7	0.7	0.3	1.5	1.2	1.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.0	9.6
15-Feb	Z	1.5	3.0	0.4	0.8	0.0	0.1	0.2	1.0	1.0	1.5	1.0	1.2	2.1	0.3	0.8	1.1	2.3	0.2	0.0	0.0	0.0	0.0	0.0	0.8	3.0
16-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	2.3	1.9	3.4	2.8	3.1	0.1	0.4	0.2	0.1	0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.7	3.4
17-Feb	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
18-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.2	0.7	0.8	0.9	0.9	1.1	0.7	0.8	0.7	0.4	0.2	0.3	0.3	1.3	7.9	5.8	1.0	7.9
19-Feb	2.7	6.8	3.3	6.4	Z	4.9	6.1	10.4	7.8	3.9	4.0	2.9	1.2	2.1	2.4	1.0	0.2	0.2	0.4	1.6	0.1	0.1	0.0	0.0	3.0	10.4
20-Feb	0.0	0.0	0.0	0.0	0.1	Z	0.0	0.1	1.0	C	C	C	C	C	C	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	1.0
21-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8	1.8	1.5	1.3	1.0	0.4	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8
22-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	1.3	0.7	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3
23-Feb	0.0	0.0	Z	0.0	0.1	1.3	2.0	1.6	1.8	0.7	0.6	1.1	0.5	0.3	0.2	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0
24-Feb	0.0	0.0	0.0	Z	0.1	0.0	0.1	0.2	0.7	1.4	2.1	2.6	3.1	1.9	3.3	1.8	1.9	1.0	0.0	0.0	0.3	0.0	0.0	0.0	0.9	3.3
25-Feb	0.0	0.0	0.0	0.1	Z	1.2	1.4	1.4	1.4	3.8	1.3	1.3	1.8	2.8	3.8	3.5	2.1	0.3	0.0	0.1	0.1	0.0	0.0	0.0	1.2	3.8
26-Feb	0.0	0.0	0.0	0.0	0.6	Z	3.7	2.4	12.8	3.3	13.9	15.3	10.6	3.4	1.1	1.8	1.0	0.2	0.0	0.0	0.0	0.0	2.0	96.4	7.3	96.4
27-Feb	Z	100.6	79.3	56.3	59.1	102.2	88.6	1.5	39.5	2.4	9.2	8.7	6.4	2.7	1.2	0.5	1.3	92.2	79.8	13.6	17.0	2.1	1.0	16.7	34.0	102.2
28-Feb	2.7	Z	6.4	0.4	0.5	0.2	0.1	0.4	3.5	3.2	4.7	1.3	1.4	0.6	0.6	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.2	4.9	1.4	6.4
	1.3	5.5	4.2	3.7	3.3	5.4	4.1	1.1	3.3	1.9	2.5	2.2	2.1	1.6	1.2	0.9	0.7	3.6	3.0	0.8	1.2	0.7	1.1	5.3	Diurnal Average	
	11.9	100.6	79.3	56.3	59.1	102.2	88.6	10.4	39.5	7.0	13.9	15.3	10.6	9.1	3.8	3.5	2.4	92.2	79.8	13.6	17.0	8.8	11.3	96.4	Diurnal Maximum	

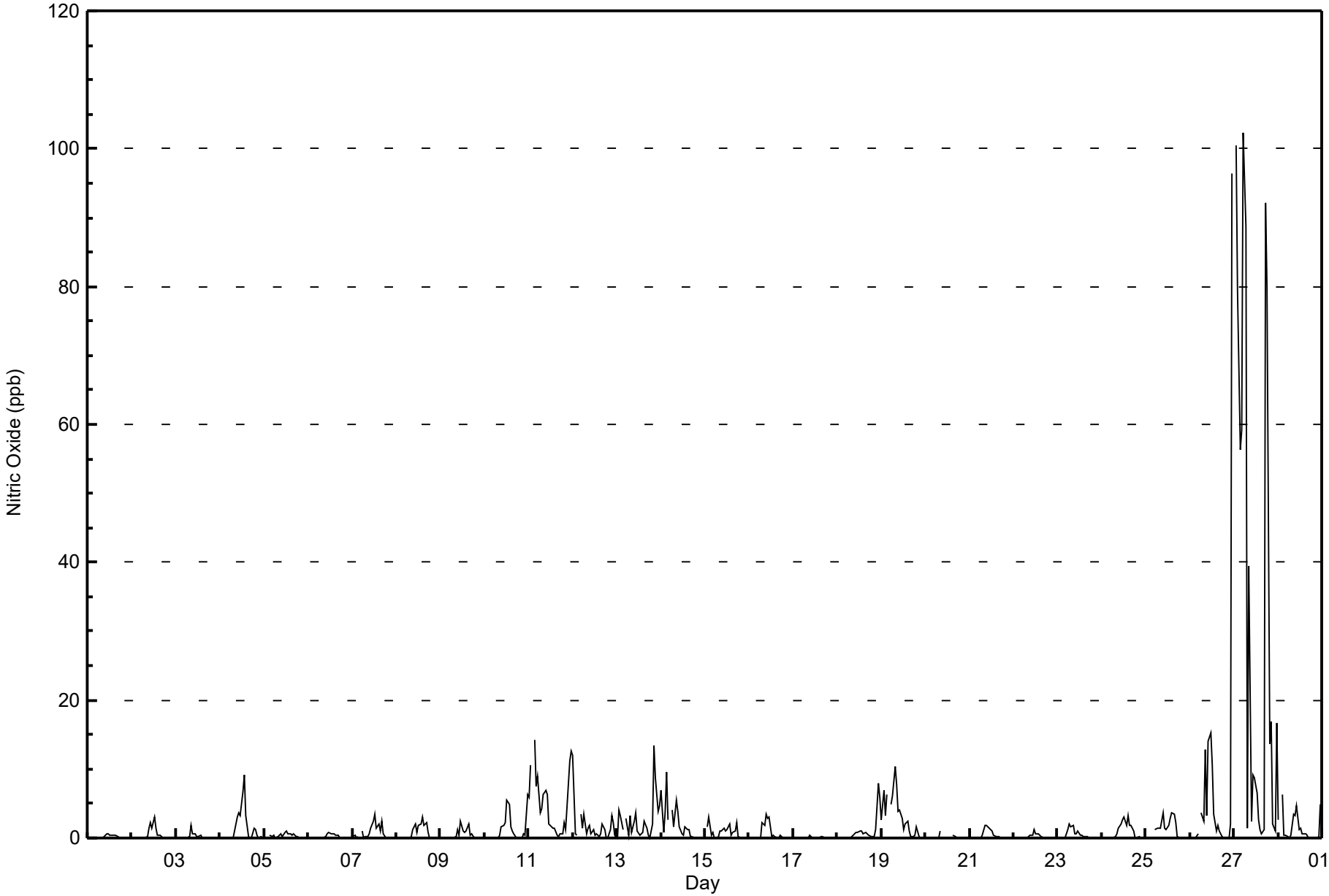
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitric Oxide (NO) - ppb

Kirby South - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	628	98.43	98.43
21 - 40	1	0.16	98.59
11 - 80	4	0.63	99.22
81 - 159	5	0.78	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitric Oxide (NO) - ppb

Kirby South - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	18	36	44	29	15	22	18	18	37	50	107	46	76	27	16	20	579
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
11 - 80	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	4
81 - 159	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4	5
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	18	36	44	31	15	22	18	18	37	50	107	46	76	27	16	28	589

Total Number of Valid Hours: 589

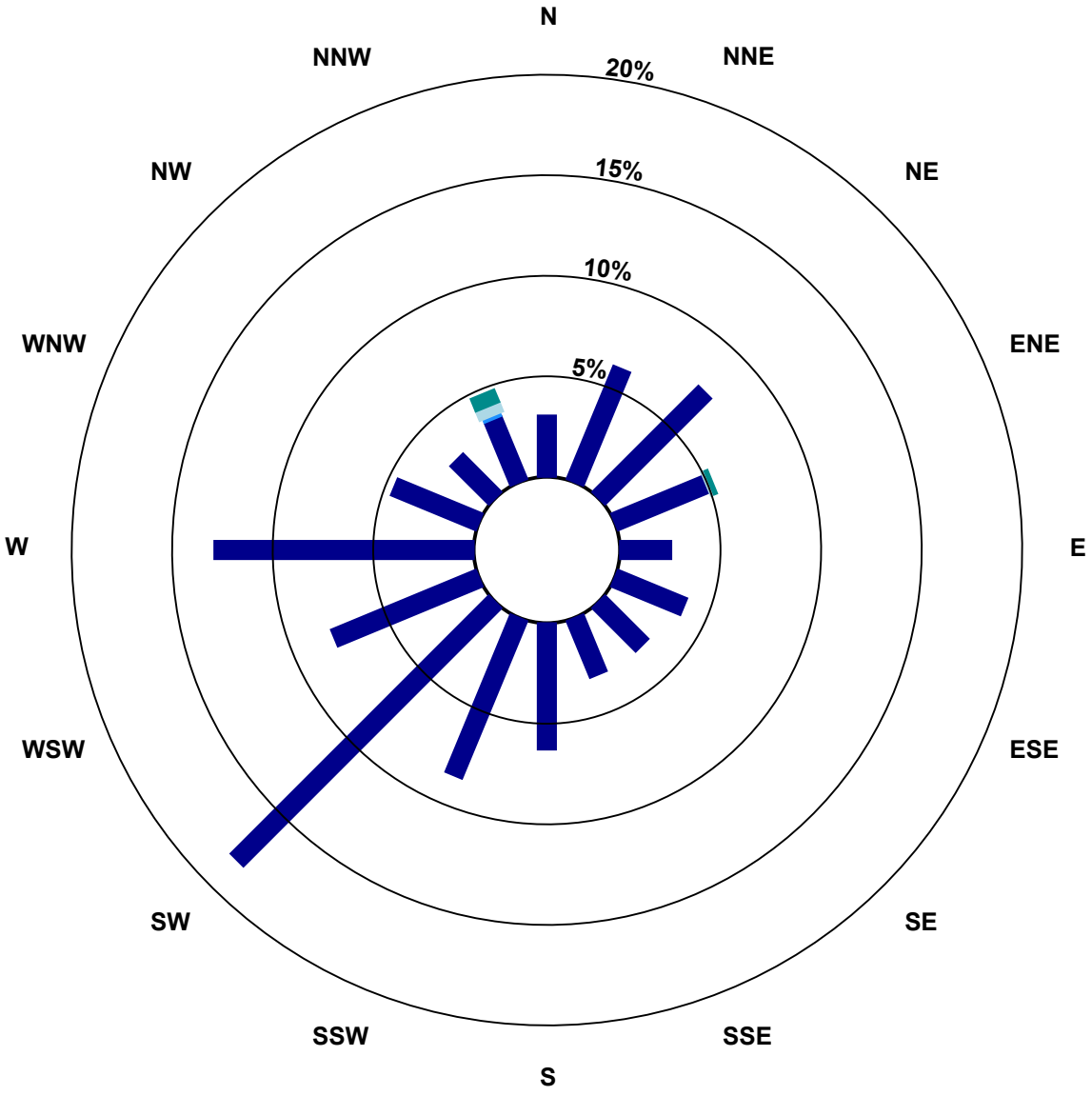
Total Number of Hours: 672

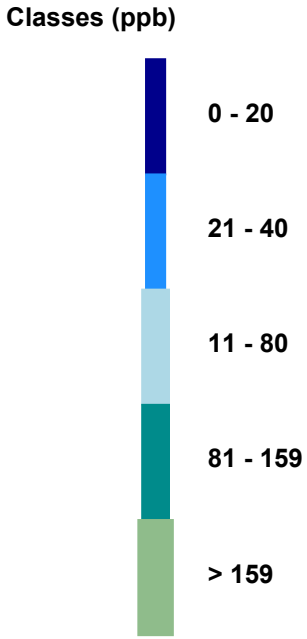
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitric Oxide (NO) - ppb

Kirby South





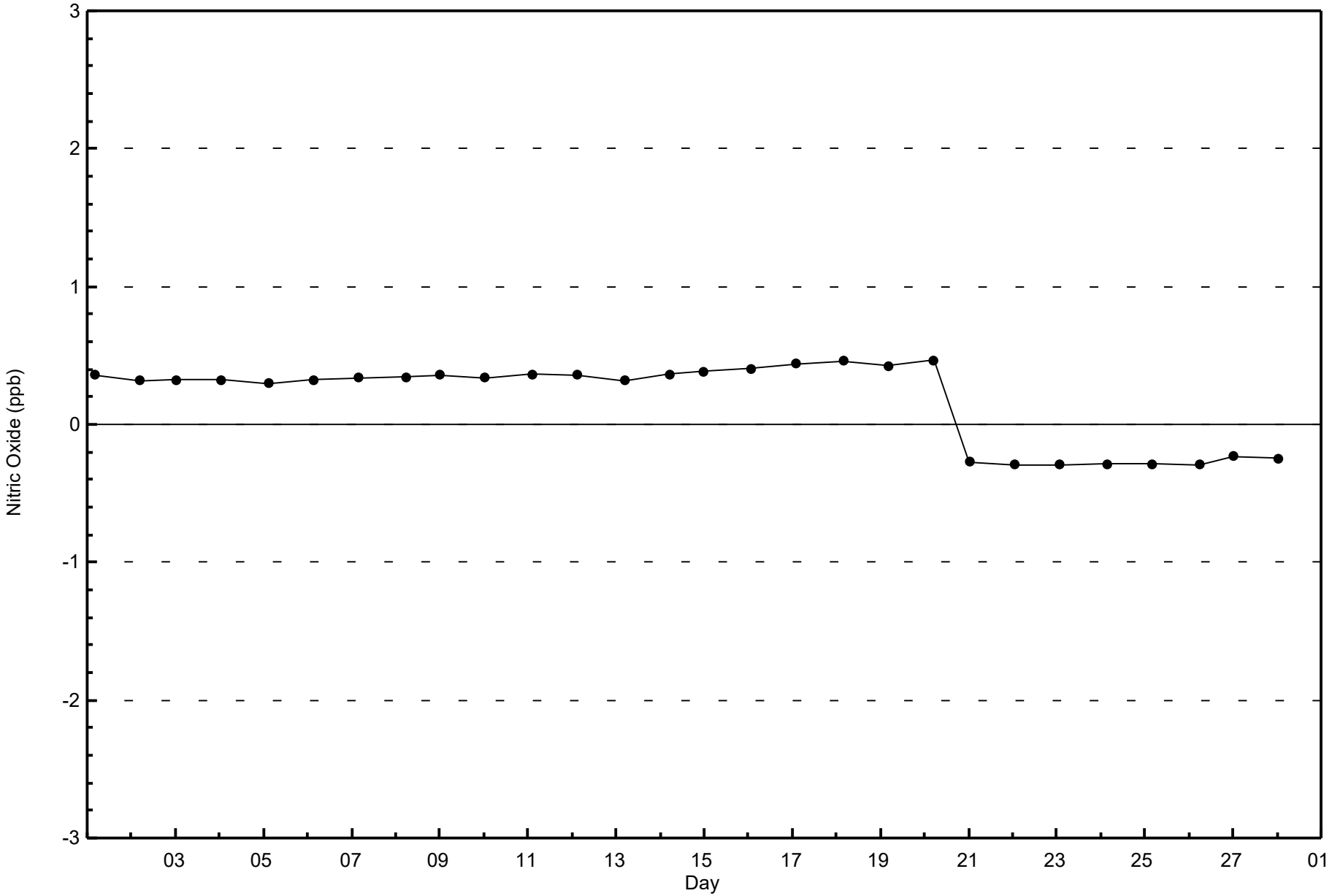
Total Number of Valid Hours: 589

Wood Buffalo Environmental Association

Zero Responses

Nitric Oxide (NO) - ppb

Kirby South - February 2026

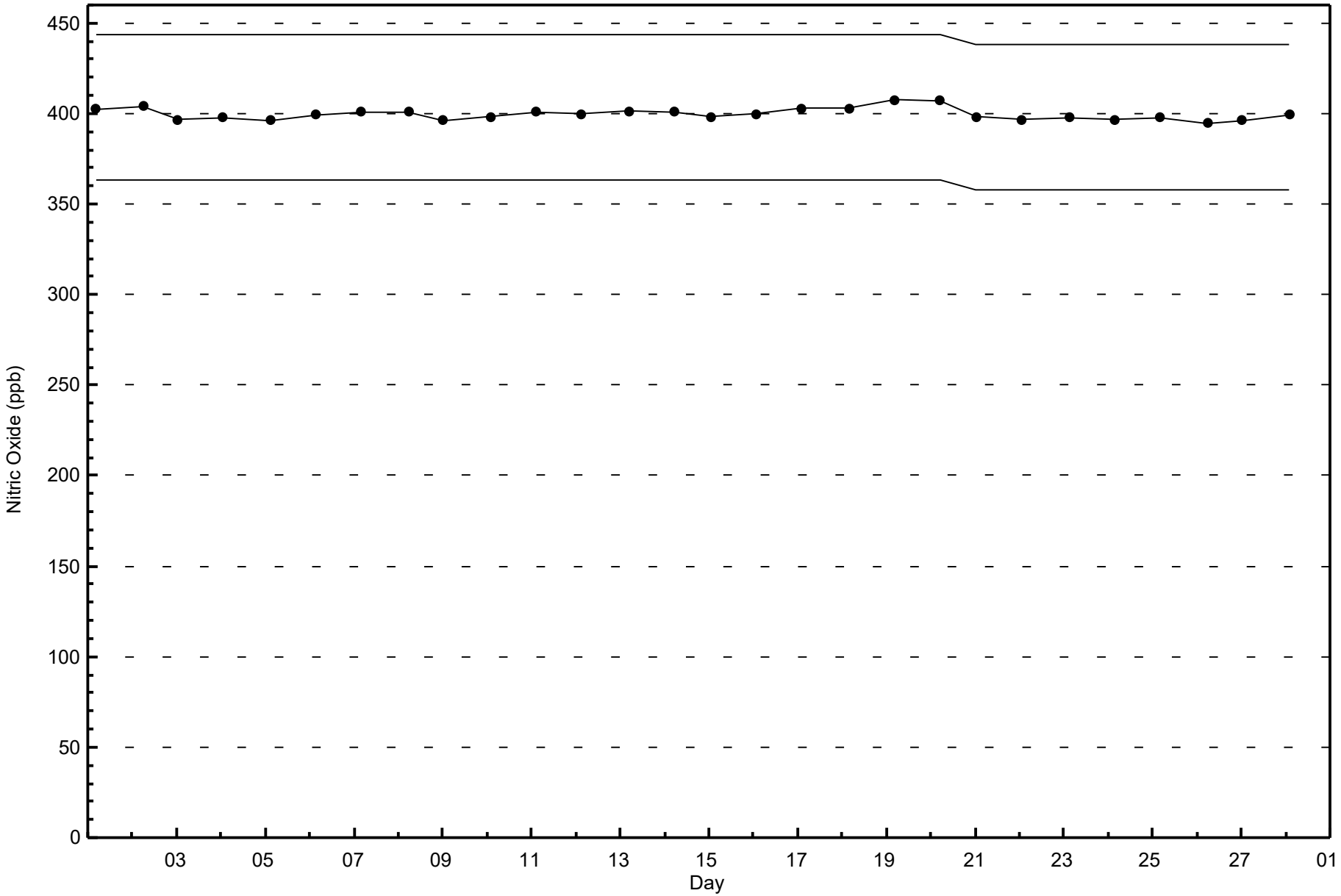


Wood Buffalo Environmental Association

Span Responses

Nitric Oxide (NO) - ppb

Kirby South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Kirby South - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 79.6 ppb on Feb 27 18:00
Maximum Daily Average: 19.7 ppb on Feb 27

Minimum Value: 0.2 ppb on Feb 17 00:00
Minimum Daily Average: 0.8 ppb on Feb 22
Maximum Diurnal Average: 6.1 ppb at hour 6
Minimum Diurnal Average: 2.2 ppb at hour 15
Monthly Average: 4.14 ppb
Percentiles: P_1 = 0.3 P_{10} = 0.9 Q_1 = 1.4 Median = 2.5 Q_3 = 4.2 P_{90} = 8.3 P_{99} = 29.9

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.9	1.1	2.2	3.9	Z	3.5	2.6	2.5	2.7	2.7	3.7	3.1	2.4	2.4	2.5	2.7	1.9	1.7	0.9	0.8	1.4	1.6	1.4	1.3	2.2	3.9
2-Feb	1.7	1.8	1.9	1.8	1.6	Z	1.5	1.3	1.5	2.6	3.7	2.9	3.7	2.9	2.4	2.6	2.8	2.8	2.7	2.9	3.1	2.7	2.6	2.8	2.4	3.7
3-Feb	Z	2.5	2.1	1.4	1.1	1.0	0.9	1.2	1.8	1.6	1.8	1.4	0.9	1.0	0.7	0.7	0.6	0.6	0.6	1.3	1.9	2.1	2.4	2.4	1.4	2.5
4-Feb	2.1	Z	2.3	2.5	2.7	2.8	2.8	2.9	4.1	5.5	5.3	4.3	6.6	9.1	4.2	1.6	1.5	2.1	4.2	4.4	1.5	0.8	1.3	1.0	3.3	9.1
5-Feb	0.9	0.8	Z	1.4	1.3	1.9	1.0	0.9	1.3	1.4	1.5	1.6	2.0	1.5	1.3	1.2	1.3	1.8	3.3	3.3	2.7	2.5	2.2	1.9	1.7	3.3
6-Feb	1.9	2.1	1.9	Z	3.2	3.6	3.2	2.7	2.3	1.9	2.0	1.8	1.7	1.8	2.1	2.2	3.0	3.2	3.8	4.2	4.0	3.6	3.7	3.4	2.8	4.2
7-Feb	3.8	3.9	3.6	3.6	Z	5.0	3.4	2.9	3.0	2.3	2.9	3.8	4.8	2.4	2.8	3.4	5.4	5.5	3.7	2.7	2.2	1.9	1.8	1.7	3.3	5.5
8-Feb	1.5	1.8	1.7	1.6	1.5	Z	1.6	1.9	2.0	2.9	3.3	2.3	2.8	2.9	3.8	3.1	3.8	2.5	1.4	1.4	1.9	1.7	1.3	1.0	2.2	3.8
9-Feb	Z	1.2	0.8	0.5	0.8	0.6	0.5	0.8	0.8	2.1	0.9	2.6	1.6	1.5	1.8	2.9	2.7	5.9	5.8	4.0	2.6	2.4	2.0	1.7	2.0	5.9
10-Feb	1.9	Z	2.5	3.0	3.9	4.3	4.3	4.6	4.3	4.2	3.6	4.2	6.2	7.7	5.5	4.3	4.5	5.0	5.9	6.6	7.6	8.3	8.4	16.7	5.5	16.7
11-Feb	16.2	20.7	Z	26.9	17.1	21.5	15.9	16.1	15.1	14.3	10.5	3.8	2.7	2.6	2.9	1.9	2.1	4.6	4.5	7.5	5.6	13.5	23.5	24.8	11.9	26.9
12-Feb	22.1	3.7	3.5	Z	7.8	4.3	9.1	2.8	3.9	3.7	1.7	2.2	1.4	1.4	1.2	3.0	9.0	9.2	1.3	1.3	7.7	14.3	9.4	4.2	5.6	22.1
13-Feb	3.0	10.2	8.2	4.1	Z	7.6	1.8	8.7	3.4	4.6	5.2	1.9	1.1	1.4	1.4	5.0	4.0	5.0	1.5	6.9	31.7	25.0	14.2	18.1	7.6	31.7
14-Feb	22.6	4.9	16.3	19.7	8.3	Z	18.3	9.9	16.8	6.7	3.8	2.7	1.3	3.1	2.7	2.8	1.7	1.3	1.5	1.1	0.9	1.4	1.1	1.1	6.5	22.6
15-Feb	Z	11.1	11.8	4.3	5.3	2.9	4.1	2.5	2.6	2.8	2.4	2.1	2.3	3.4	1.5	3.4	5.9	5.6	7.9	5.9	5.4	4.2	4.2	3.8	4.6	11.8
16-Feb	4.3	Z	2.4	1.5	0.9	1.2	1.1	4.1	2.0	3.5	2.2	2.5	0.5	1.0	0.6	0.4	0.5	0.6	0.6	0.9	0.5	0.6	0.3	0.2	1.4	4.3
17-Feb	0.3	0.2	Z	0.3	0.3	0.3	0.3	0.3	0.4	0.8	0.3	0.4	0.5	0.3	0.7	1.1	1.5	1.7	2.1	2.1	1.7	1.2	1.3	1.2	0.8	2.1
18-Feb	1.0	1.2	1.6	Z	1.3	1.3	1.7	2.1	1.7	1.5	1.1	0.8	0.9	1.0	0.8	0.9	1.2	1.9	2.2	2.6	3.0	3.7	8.5	7.3	2.1	8.5
19-Feb	4.5	7.2	5.1	6.1	Z	4.3	6.5	9.0	6.5	2.8	2.0	1.9	1.2	2.9	4.9	3.7	2.5	3.0	3.5	5.1	1.7	1.8	2.0	2.6	3.9	9.0
20-Feb	3.1	3.8	3.9	3.8	4.2	Z	3.8	3.9	4.5	C	C	C	C	C	C	3.0	3.5	3.3	3.2	6.6	7.6	8.5	7.4	5.4	--	8.5
21-Feb	Z	4.7	4.2	3.7	5.1	7.9	9.2	11.6	7.8	3.9	2.1	1.7	1.4	0.9	0.6	0.7	1.2	1.0	1.1	0.8	0.4	0.3	0.4	0.3	3.1	11.6
22-Feb	0.3	Z	0.4	0.3	0.6	1.3	0.7	0.9	1.4	1.5	1.0	1.4	1.0	1.8	1.6	0.8	0.5	0.4	0.4	0.3	0.3	0.8	0.4	0.4	0.8	1.8
23-Feb	0.6	1.2	Z	1.4	1.7	5.9	8.9	10.9	5.0	1.4	1.1	1.9	1.1	0.9	0.9	0.8	1.3	1.2	1.4	1.3	1.4	1.6	1.4	1.3	2.4	10.9
24-Feb	1.3	1.3	1.4	Z	1.3	1.4	1.5	2.9	2.2	2.1	2.4	2.6	3.0	2.5	3.7	3.8	6.2	6.8	2.0	1.6	1.8	1.0	1.0	1.5	2.4	6.8
25-Feb	2.6	4.4	4.7	4.6	Z	8.8	10.0	7.6	4.4	2.4	2.5	2.2	2.5	3.8	4.9	5.7	5.9	2.5	1.4	1.9	2.4	2.0	1.8	1.9	4.0	10.0
26-Feb	1.7	1.1	1.1	1.0	1.5	Z	4.5	3.9	11.5	3.7	11.7	12.3	7.6	3.0	2.6	4.0	5.6	4.5	3.1	2.0	2.0	2.9	3.0	7.7	4.4	12.3
27-Feb	Z	13.6	26.6	38.2	34.1	45.6	44.1	3.8	15.8	4.2	4.8	9.2	4.1	2.3	1.5	1.3	1.9	79.6	55.7	12.6	16.9	9.3	8.3	18.5	19.7	79.6
28-Feb	10.0	Z	14.0	3.8	4.0	2.4	3.2	2.9	6.1	3.6	3.6	1.5	1.4	1.0	1.1	1.3	1.3	1.4	1.4	1.5	1.9	1.9	2.5	4.1	3.3	14.0
	4.7	4.5	5.2	5.8	4.8	6.1	5.9	4.5	4.8	3.4	3.2	2.9	2.5	2.5	2.2	2.4	3.0	5.9	4.5	3.3	4.4	4.3	4.2	4.9	Diurnal Average	
	22.6	20.7	26.6	38.2	34.1	45.6	44.1	16.1	16.8	14.3	11.7	12.3	7.6	9.1	5.5	5.7	9.0	79.6	55.7	12.6	31.7	25.0	23.5	24.8	Diurnal Maximum	

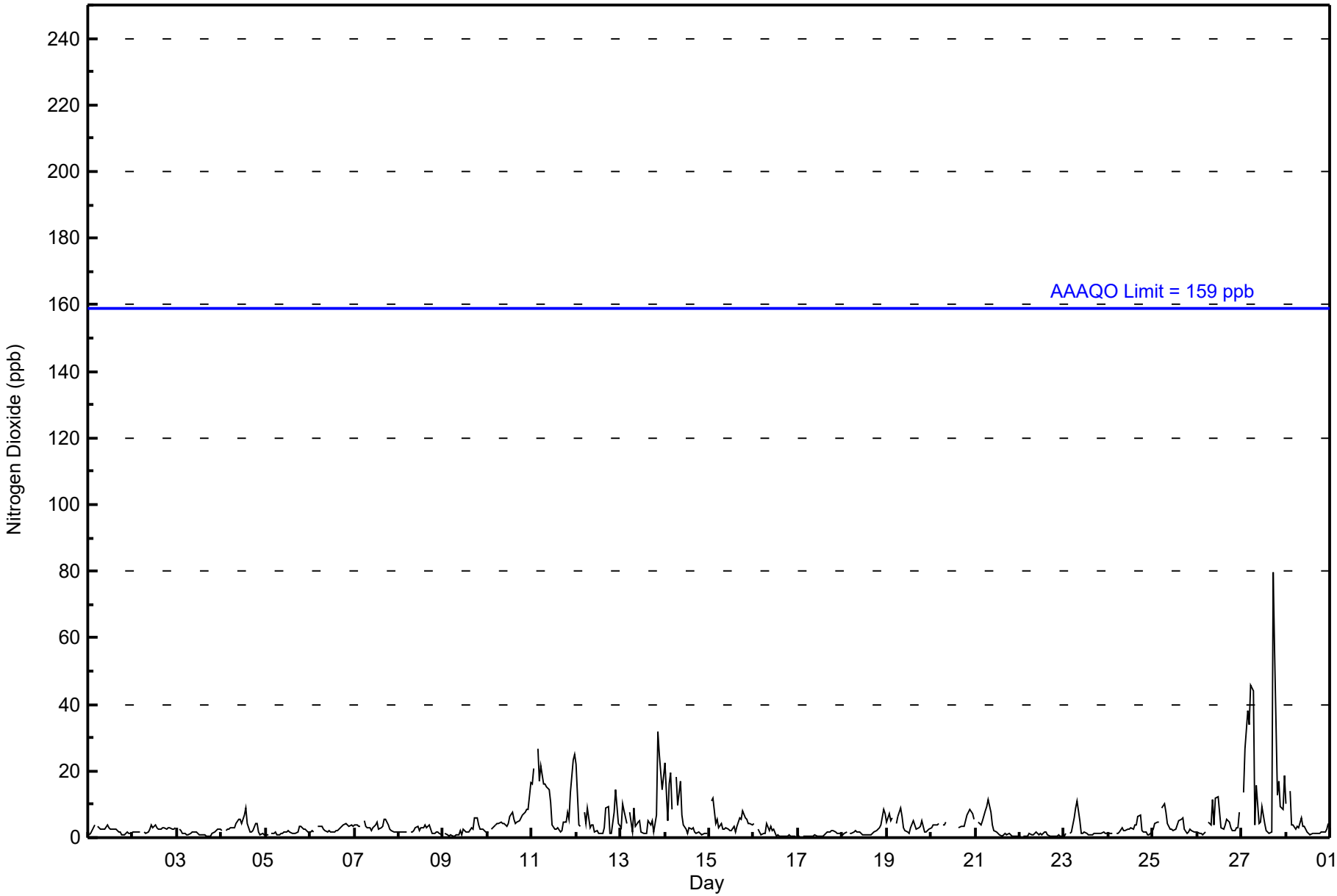
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Kirby South - February 2026



Nitrogen Dioxide (NO_2) - ppb
Kirby South - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	622	97.49	97.49
21 - 40	12	1.88	99.37
11 - 80	4	0.63	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Kirby South - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	18	36	44	29	15	22	18	18	37	50	98	46	76	27	16	23	573
21 - 40	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	3	12
11 - 80	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	4
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	18	36	44	31	15	22	18	18	37	50	107	46	76	27	16	28	589

Total Number of Valid Hours: 589

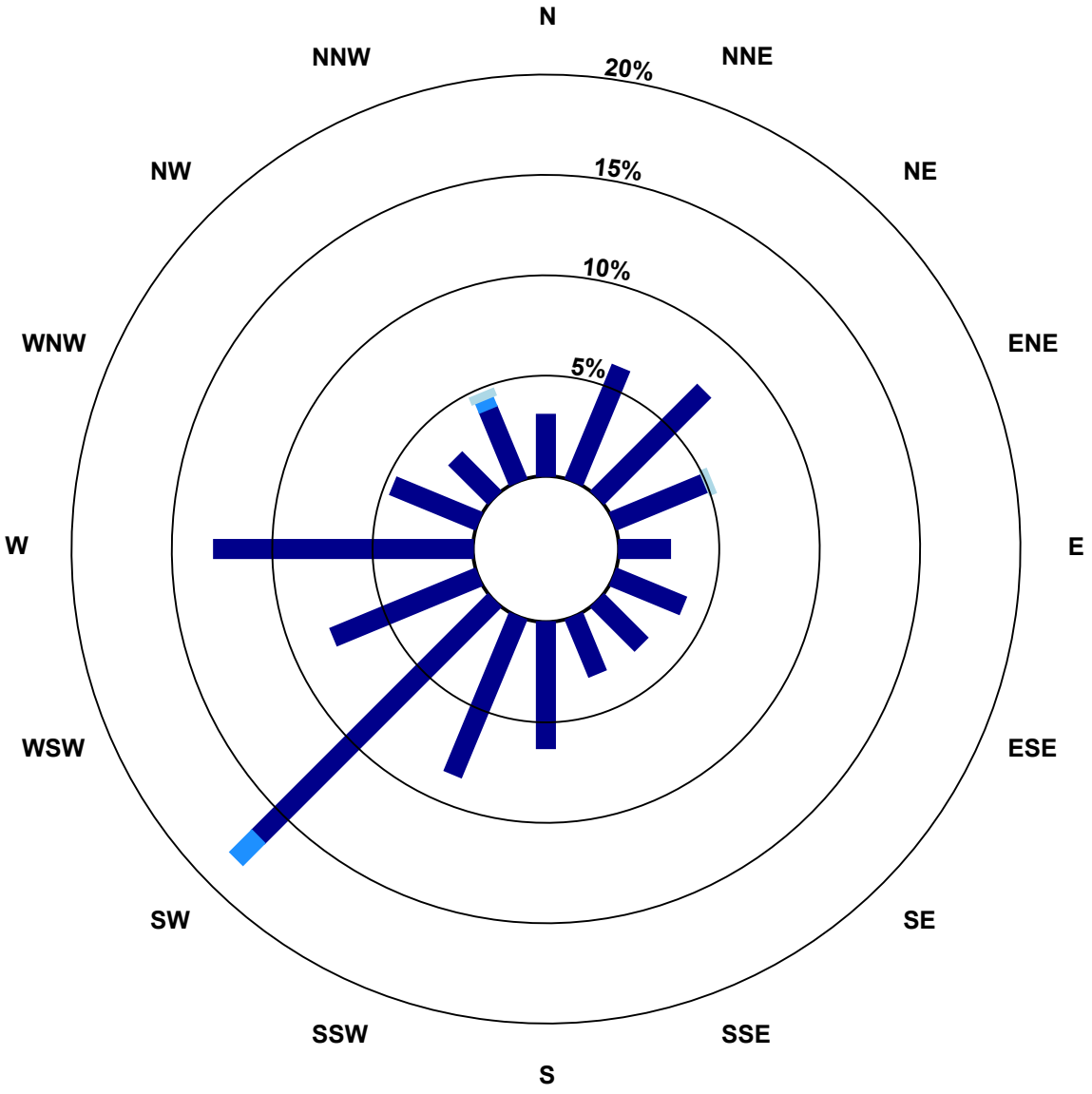
Total Number of Hours: 672

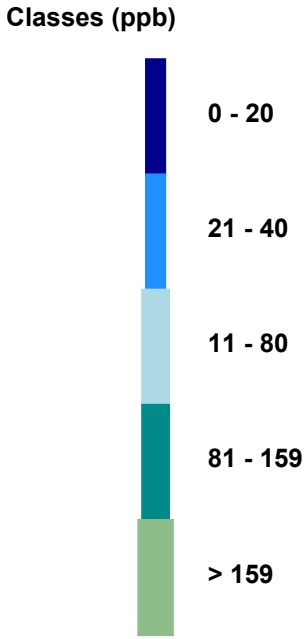
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Kirby South





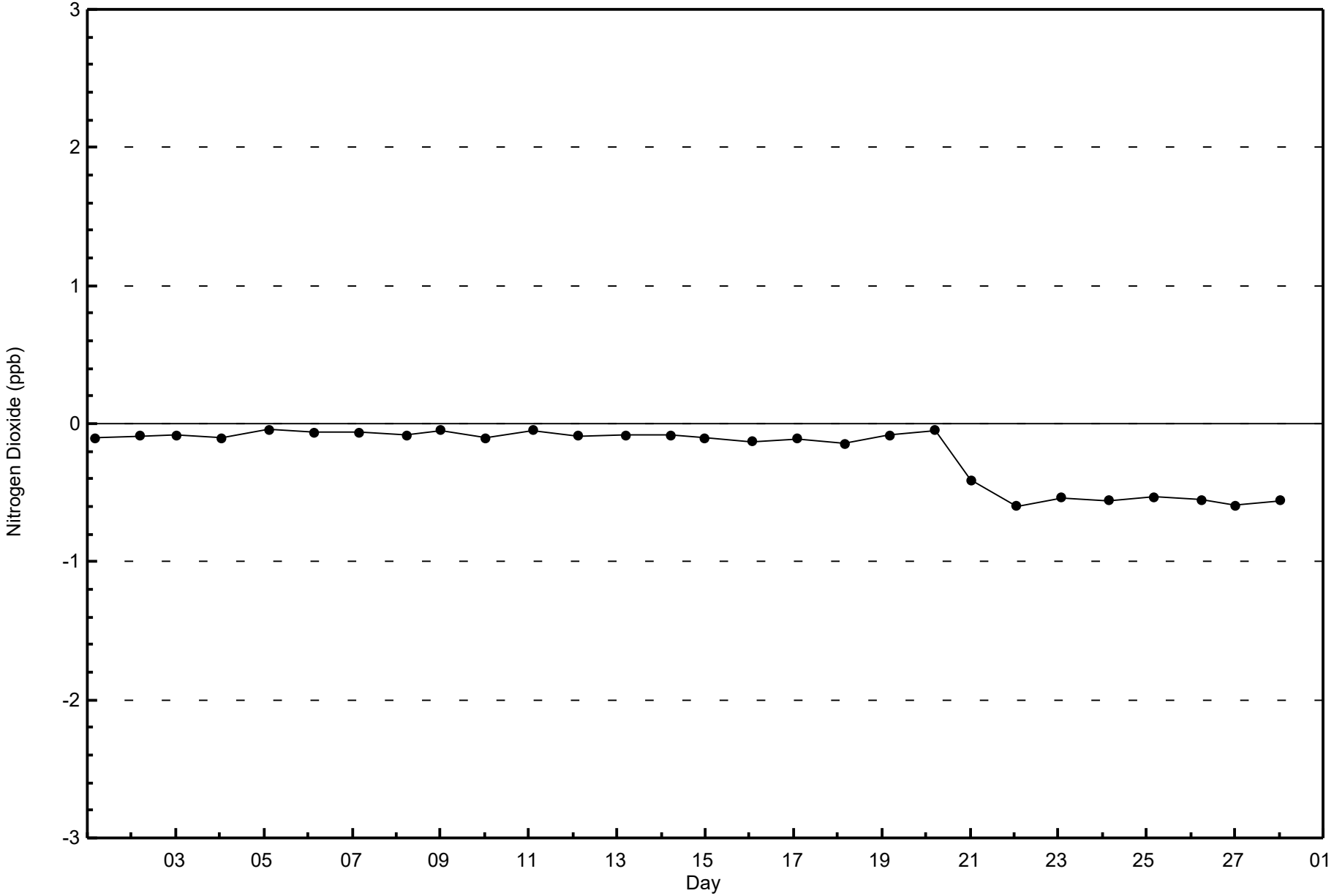
Total Number of Valid Hours: 589

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Kirby South - February 2026

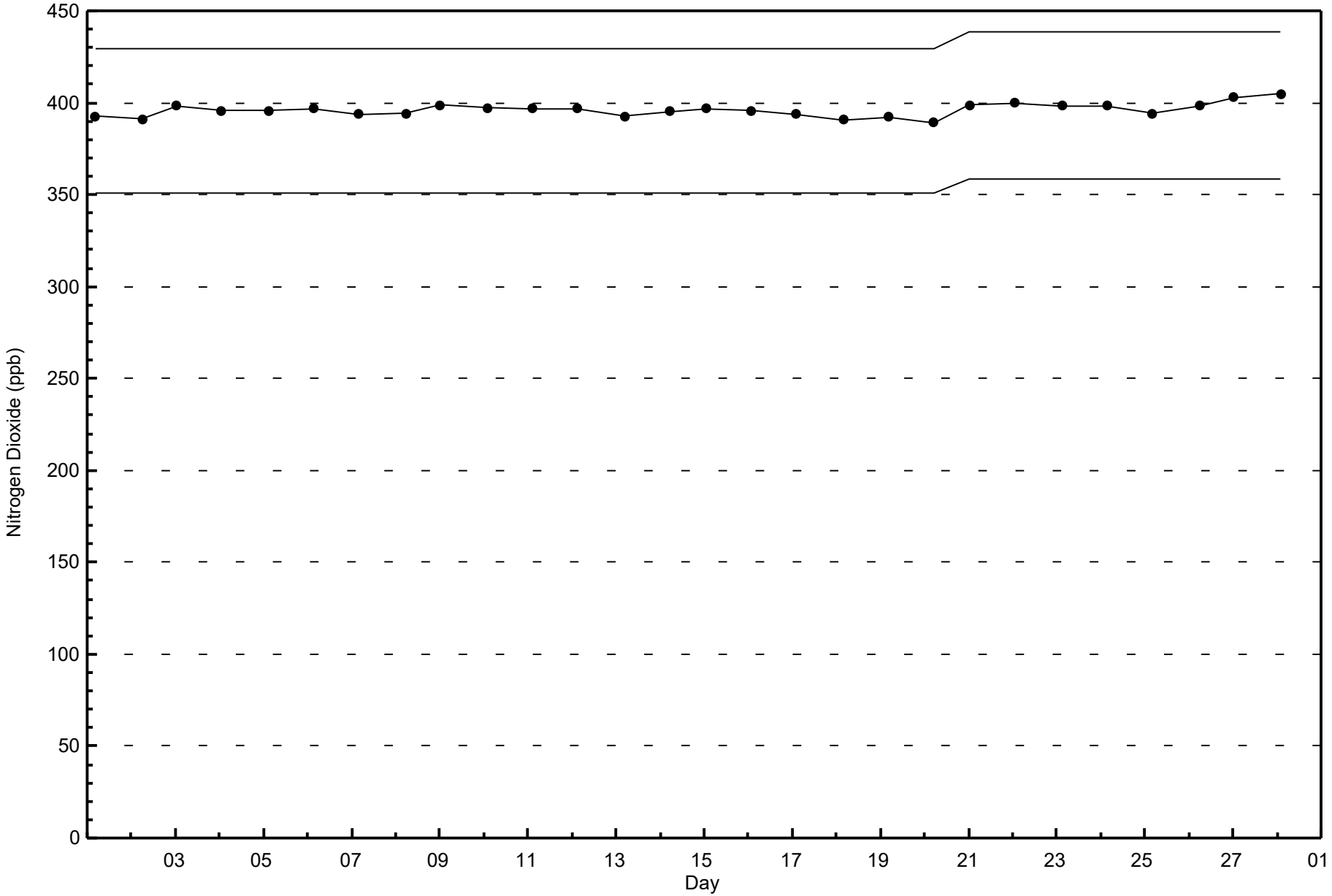


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Kirby South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Kirby South - February 2026

Maximum Value: 171.8 ppb on Feb 27 18:00

Maximum Daily Average: 53.6 ppb on Feb 27

Minimum Value: 0.2 ppb on Feb 17 02:00

Minimum Daily Average: 0.9 ppb on Feb 17

Maximum Diurnal Average: 11.5 ppb at hour 6

Minimum Diurnal Average: 3.3 ppb at hour 16

Monthly Average: 6.61 ppb

Percentiles: P_1 = 0.3 P_{10} = 0.9 Q_1 = 1.6 Median = 2.9 Q_3 = 5.6 P_{90} = 11.7 P_{99} = 100.6

Hours in Service:	672
Hours of Data:	638
Hours of Missing Data:	34
Hours of Calibration:	34
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.9	1.1	2.2	3.9	Z	3.5	2.6	2.6	2.8	2.9	4.3	3.7	2.9	2.9	2.9	3.1	2.0	1.7	0.9	0.8	1.4	1.6	1.4	1.3	2.3	4.3
2-Feb	1.7	1.8	1.9	1.8	1.6	Z	1.5	1.4	1.6	4.0	5.9	4.3	6.8	4.2	2.9	3.0	3.0	2.8	2.7	2.9	3.2	2.7	2.6	2.8	2.9	6.8
3-Feb	Z	2.5	2.1	1.4	1.1	1.0	0.9	1.4	3.6	2.2	2.3	1.6	1.0	1.4	0.8	0.7	0.6	0.6	0.6	1.3	1.9	2.1	2.4	2.4	1.6	3.6
4-Feb	2.1	Z	2.3	2.5	2.7	2.8	2.8	2.9	5.1	8.6	9.0	7.5	13.3	18.2	7.4	1.8	1.6	2.2	5.6	5.6	1.9	0.9	1.6	1.0	4.8	18.2
5-Feb	0.9	0.8	Z	1.9	1.5	2.4	1.0	1.0	1.8	2.1	1.8	2.4	3.0	2.2	1.9	1.7	1.8	2.0	3.5	3.3	2.7	2.5	2.2	1.9	2.0	3.5
6-Feb	1.9	2.1	1.9	Z	3.2	3.6	3.2	2.7	2.4	2.2	2.6	2.6	2.4	2.4	2.6	2.6	3.5	3.2	3.8	4.2	4.0	3.6	3.7	3.4	2.9	4.2
7-Feb	3.9	4.3	3.7	3.7	Z	6.1	3.5	3.0	3.2	2.9	4.3	6.2	8.2	3.9	4.8	4.5	7.8	6.1	3.7	2.7	2.2	1.9	1.8	1.7	4.1	8.2
8-Feb	1.5	1.8	1.7	1.6	1.5	Z	1.6	2.0	2.1	4.2	5.3	3.2	4.5	4.9	6.9	5.0	6.1	3.3	1.4	1.4	1.9	1.7	1.3	1.0	2.9	6.9
9-Feb	Z	1.2	0.8	0.5	0.9	0.7	0.5	0.9	1.0	3.4	1.3	5.0	2.5	2.3	2.9	5.0	3.0	6.4	5.8	4.0	2.6	2.4	2.0	1.7	2.5	6.4
10-Feb	1.9	Z	2.5	3.0	3.9	4.3	4.3	4.7	4.7	5.8	5.4	6.4	11.7	12.6	7.1	5.3	5.0	5.1	5.9	6.6	7.7	8.8	8.8	22.9	6.7	22.9
11-Feb	22.2	31.2	Z	41.0	24.7	30.4	19.6	20.4	21.4	21.3	16.7	5.9	4.2	4.0	4.4	2.3	2.3	5.1	5.1	9.8	6.8	18.0	34.8	37.5	16.9	41.0
12-Feb	34.0	4.3	4.0	Z	11.2	5.8	12.5	3.4	5.3	5.5	2.4	3.4	1.9	1.9	1.4	3.6	11.1	10.5	1.3	1.3	8.9	17.6	11.7	4.6	7.3	34.0
13-Feb	3.1	14.3	11.5	5.4	Z	10.5	2.1	12.0	4.3	7.1	8.8	2.9	1.6	2.0	2.2	7.5	5.3	5.5	1.5	9.0	45.1	33.8	18.0	22.7	10.3	45.1
14-Feb	29.5	5.6	20.1	29.3	11.0	Z	22.3	11.5	22.2	10.7	5.5	3.4	1.6	4.6	3.9	4.0	2.0	1.4	1.5	1.1	0.9	1.4	1.1	1.1	8.5	29.5
15-Feb	Z	12.6	14.8	4.7	6.1	2.9	4.2	2.7	3.6	3.8	3.9	3.1	3.5	5.5	1.8	4.2	7.0	7.9	8.1	5.9	5.4	4.2	4.2	3.8	5.4	14.8
16-Feb	4.3	Z	2.4	1.5	0.9	1.2	1.1	6.4	3.9	6.9	5.0	5.6	0.6	1.4	0.8	0.5	0.6	1.1	0.7	0.9	0.5	0.6	0.3	0.2	2.1	6.9
17-Feb	0.3	0.2	Z	0.3	0.3	0.3	0.3	0.3	0.4	1.1	0.3	0.5	0.6	0.4	0.8	1.2	1.6	1.7	2.1	2.1	1.7	1.2	1.3	1.2	0.9	2.1
18-Feb	1.0	1.2	1.6	Z	1.3	1.3	1.7	2.2	1.9	2.2	1.9	1.7	1.8	2.1	1.5	1.7	1.9	2.3	2.4	2.9	3.3	5.0	16.4	13.1	3.1	16.4
19-Feb	7.2	14.0	8.4	12.5	Z	9.2	12.6	19.4	14.3	6.7	6.0	4.8	2.4	5.0	7.3	4.7	2.7	3.2	3.9	6.7	1.8	1.9	2.0	2.6	6.9	19.4
20-Feb	3.1	3.8	3.9	3.8	4.3	Z	3.8	4.0	5.5	C	C	C	C	C	C	3.3	3.8	3.3	3.2	6.6	7.6	8.5	7.4	5.4	--	8.5
21-Feb	Z	4.7	4.2	3.7	5.1	7.9	9.2	12.0	9.6	5.7	3.6	3.0	2.4	1.3	0.7	0.8	1.4	1.0	1.1	0.8	0.4	0.3	0.4	0.3	3.5	12.0
22-Feb	0.3	Z	0.4	0.3	0.6	1.3	0.7	1.0	1.6	1.8	1.3	2.7	1.7	2.4	2.0	1.0	0.5	0.4	0.4	0.3	0.3	0.8	0.4	0.4	1.0	2.7
23-Feb	0.6	1.2	Z	1.4	1.8	7.2	10.9	12.5	6.8	2.1	1.7	3.0	1.6	1.2	1.1	0.9	1.5	1.3	1.4	1.3	1.4	1.6	1.4	1.3	2.8	12.5
24-Feb	1.3	1.3	1.4	Z	1.4	1.4	1.6	3.1	2.9	3.5	4.5	5.2	6.1	4.4	7.0	5.6	8.1	7.8	2.0	1.6	2.1	1.0	1.0	1.5	3.3	8.1
25-Feb	2.6	4.4	4.7	4.7	Z	10.0	11.4	9.0	5.8	6.2	3.8	3.5	4.3	6.6	8.7	9.2	8.0	2.8	1.4	2.0	2.5	2.0	1.8	1.9	5.1	11.4
26-Feb	1.7	1.1	1.1	1.0	2.1	Z	8.2	6.3	24.3	7.0	25.6	27.6	18.2	6.4	3.7	5.8	6.6	4.7	3.1	2.0	2.0	2.9	5.0	104.1	11.8	104.1
27-Feb	Z	114.2	105.9	94.5	93.2	147.8	132.7	5.3	55.3	6.6	14.0	17.9	10.5	5.0	2.7	1.8	3.2	171.8	135.5	26.2	33.9	11.4	9.3	35.2	53.6	171.8
28-Feb	12.7	Z	20.4	4.2	4.5	2.6	3.3	3.3	9.6	6.8	8.3	2.8	2.8	1.6	1.7	1.8	1.5	1.5	1.4	1.5	1.9	1.9	2.7	9.0	4.7	20.4
	6.0	10.0	9.3	9.5	8.0	11.5	10.0	5.6	8.1	5.3	5.8	5.2	4.5	4.1	3.4	3.3	3.7	9.5	7.5	4.1	5.6	5.1	5.3	10.2	Diurnal Average	
	34.0	114.2	105.9	94.5	93.2	147.8	132.7	20.4	55.3	21.3	25.6	27.6	18.2	18.2	8.7	9.2	11.1	171.8	135.5	26.2	45.1	33.8	34.8	104.1	Diurnal Maximum	

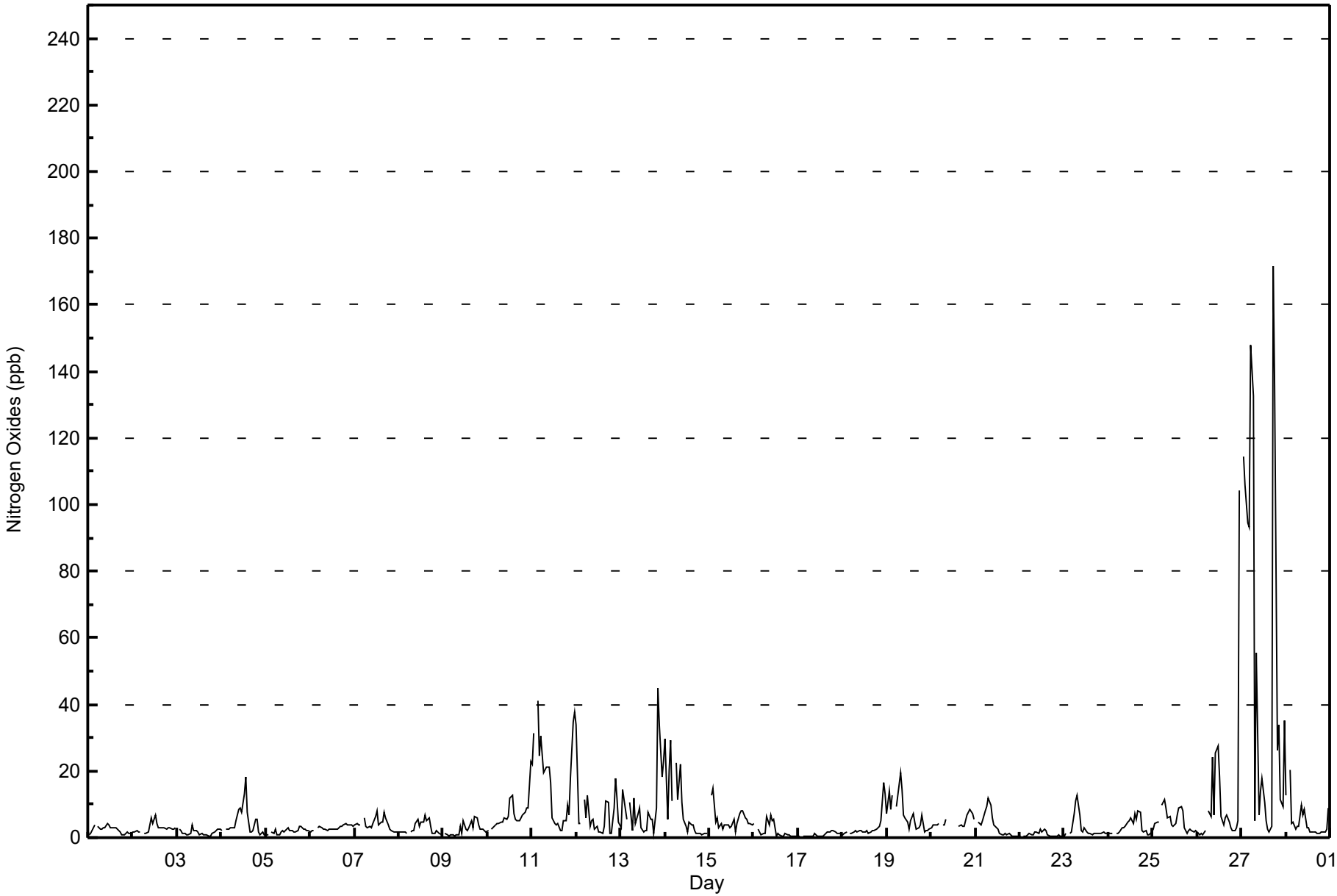
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Kirby South - February 2026



Nitrogen Oxides (NO_X) - ppb
Kirby South - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	604	94.67	94.67
21 - 40	22	3.45	98.12
11 - 80	3	0.47	98.59
81 - 159	8	1.25	99.84
> 159	1	0.16	100.00

Total Number of Valid Hours: 638

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Kirby South - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	18	36	42	29	14	22	18	18	37	50	89	45	74	27	16	20	555
21 - 40	0	0	2	0	1	0	0	0	0	0	16	1	2	0	0	0	22
11 - 80	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	3
81 - 159	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7	8
> 159	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Totals	18	36	44	31	15	22	18	18	37	50	107	46	76	27	16	28	589

Total Number of Valid Hours: 589

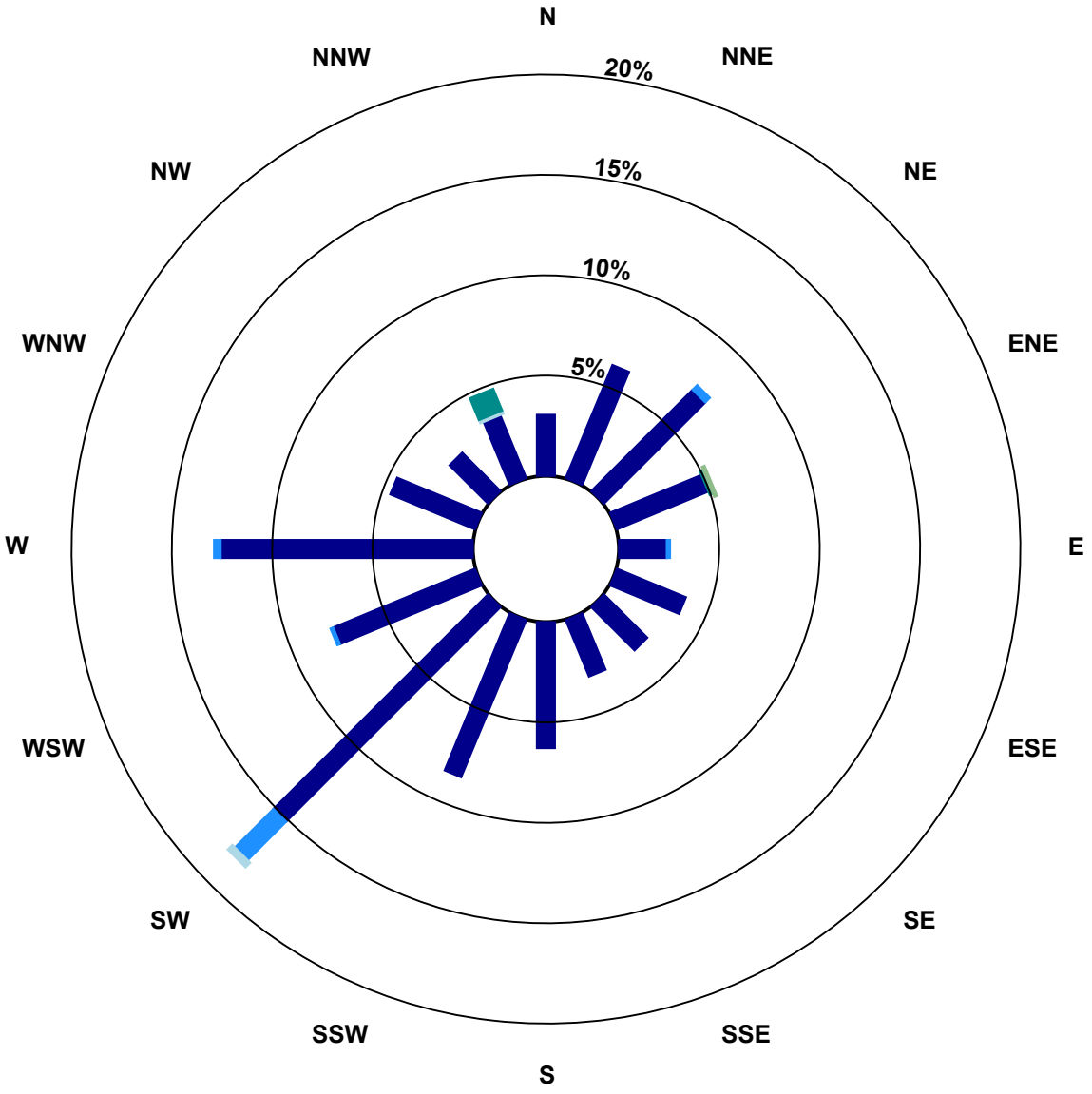
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Kirby South



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

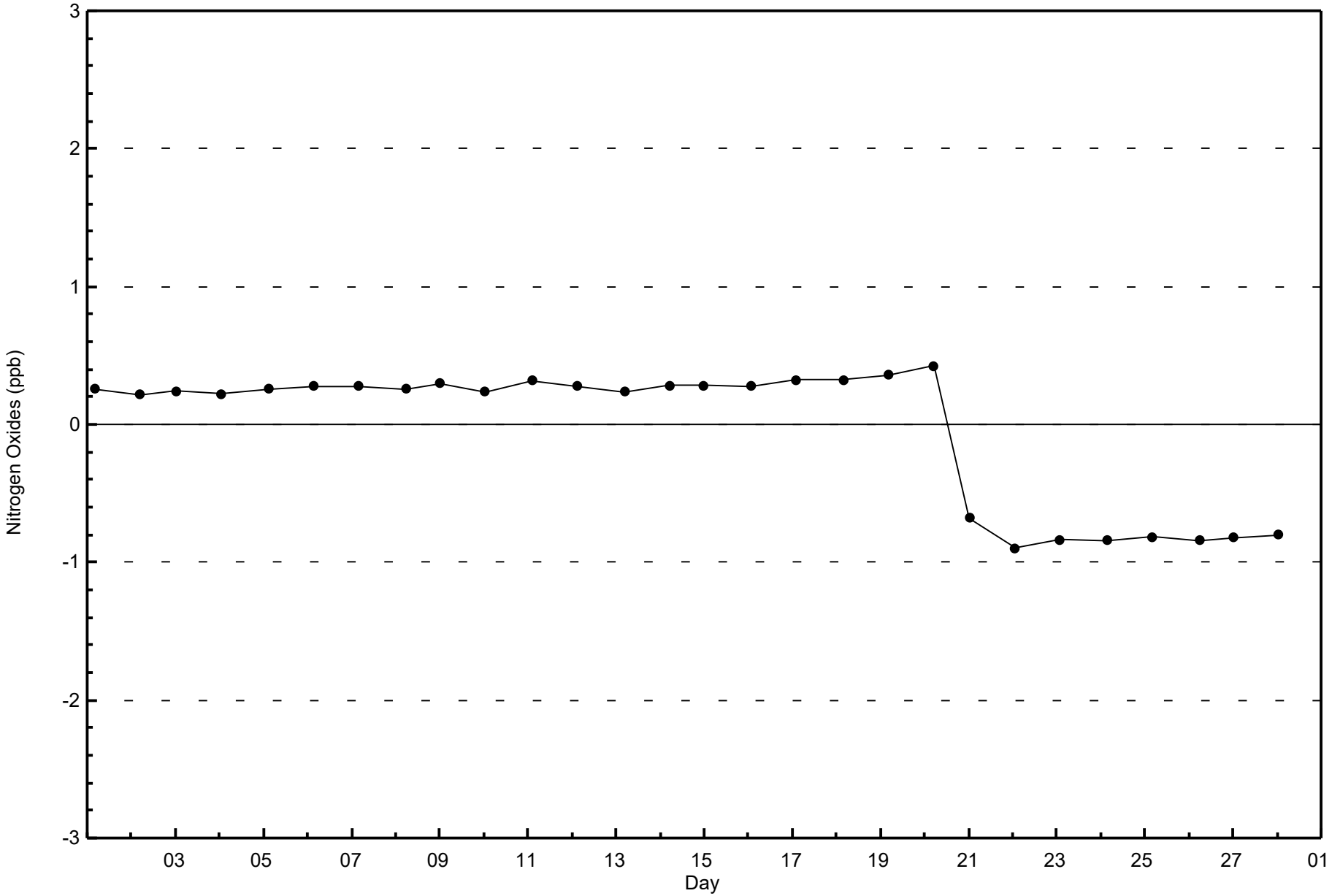
Total Number of Valid Hours: 589

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Kirby South - February 2026

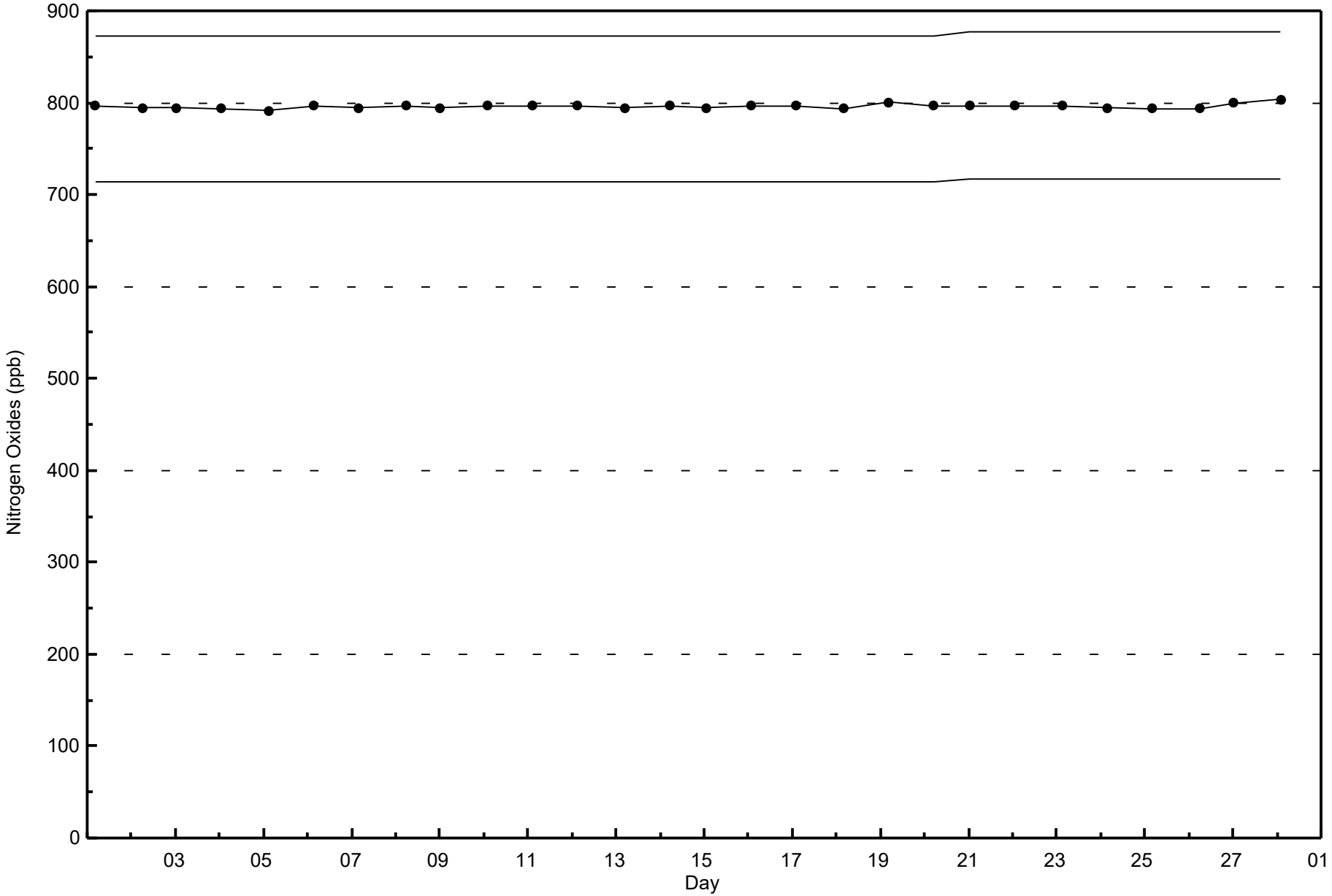


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Kirby South - February 2026



Maximum Value: 8.1 C on Feb 5 05:00

Maximum Daily Average: 2.1 C on Feb 4

Minimum Value: -33.3 C on Feb 19 05:00

Minimum Daily Average: -28.3 C on Feb 18

Maximum Diurnal Average: -7.3 C at hour 15

Minimum Diurnal Average: -12.5 C at hour 8

Monthly Average: -10.59 C

Percentiles: P_1 = -32.5 P_{10} = -25.1 Q_1 = -19.1 Median = -8.6 Q_3 = -2.5 P_{90} = 0.9 P_{99} = 6.1

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

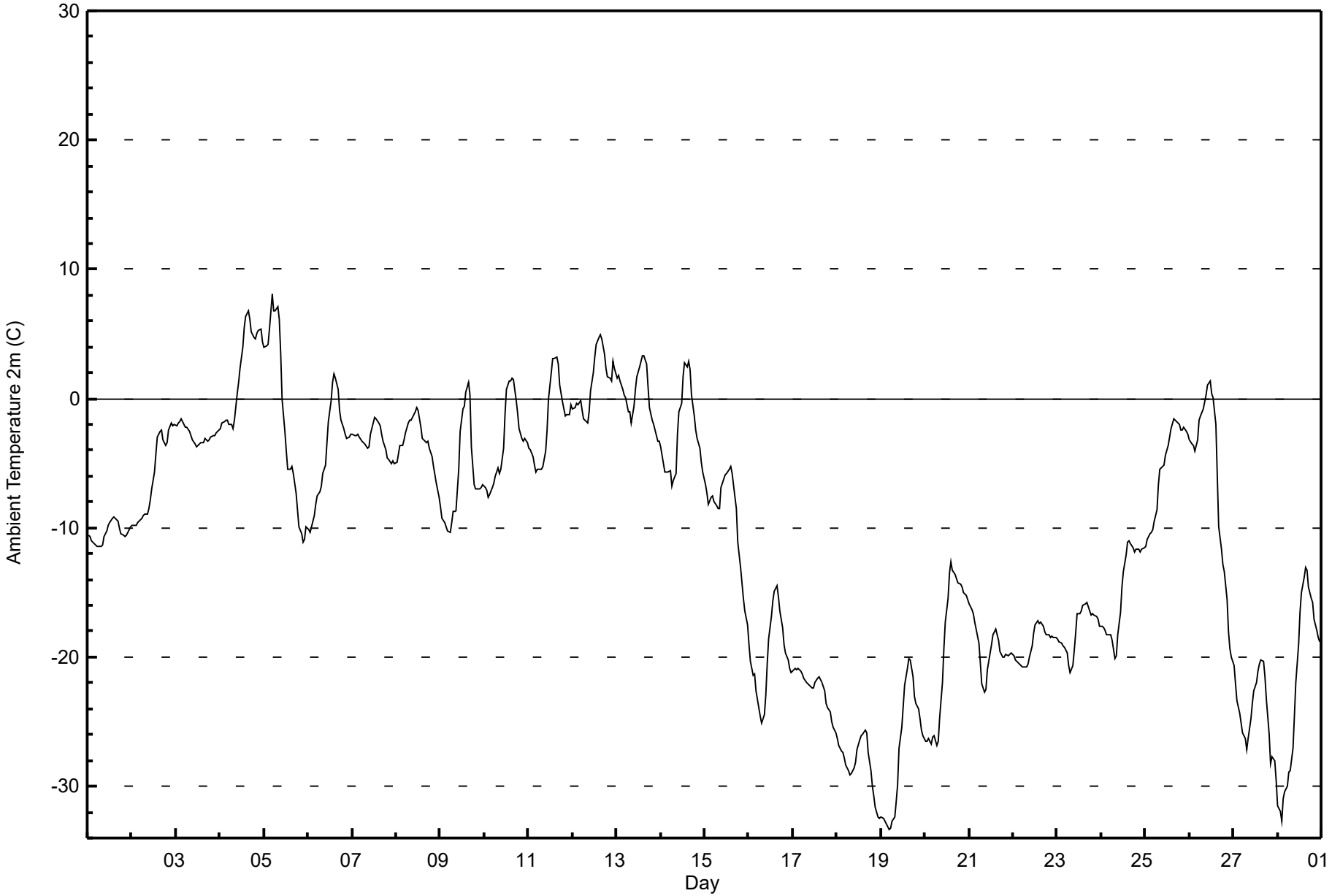
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-10.6	-10.7	-11.0	-11.2	-11.3	-11.4	-11.4	-11.4	-11.3	-10.7	-10.2	-9.9	-9.6	-9.3	-9.2	-9.3	-9.5	-10.1	-10.4	-10.6	-10.7	-10.6	-10.4	-9.9	-10.4	-9.2
2-Feb	-9.8	-9.8	-9.8	-9.6	-9.4	-9.3	-9.1	-9.0	-8.9	-8.5	-7.9	-7.0	-5.7	-4.2	-3.0	-2.6	-2.5	-3.2	-3.6	-3.4	-2.5	-1.8	-2.1	-2.0	-6.0	-1.8
3-Feb	-2.1	-1.8	-1.8	-1.6	-2.0	-2.2	-2.2	-2.6	-2.9	-3.2	-3.5	-3.7	-3.6	-3.4	-3.5	-3.4	-3.1	-3.2	-3.2	-3.0	-2.9	-2.9	-2.7	-2.5	-2.8	-1.6
4-Feb	-2.3	-1.9	-1.8	-1.7	-1.7	-2.0	-2.0	-2.3	-1.6	0.3	1.3	2.4	4.0	5.5	6.4	6.8	6.2	5.2	4.8	4.6	5.0	5.2	5.4	4.4	2.1	6.8
5-Feb	4.0	4.1	4.2	5.4	8.1	6.8	6.8	7.2	6.1	3.5	-0.1	-2.6	-4.1	-5.4	-5.5	-5.2	-5.8	-7.3	-8.7	-9.9	-10.4	-11.1	-10.9	-10.0	-1.7	8.1
6-Feb	-10.1	-10.3	-9.9	-9.1	-8.1	-7.5	-7.2	-6.8	-5.8	-5.2	-3.4	-1.8	-0.1	1.3	1.9	1.6	0.8	-0.9	-1.7	-2.3	-2.8	-3.1	-3.0	-2.8	-4.0	1.9
7-Feb	-2.8	-2.9	-2.9	-2.8	-3.0	-3.3	-3.4	-3.5	-3.9	-3.8	-2.7	-1.9	-1.5	-1.5	-1.9	-2.1	-2.8	-3.3	-3.9	-4.6	-4.7	-5.1	-4.8	-5.0	-3.3	-1.5
8-Feb	-4.9	-4.3	-3.6	-3.6	-3.2	-2.6	-1.9	-1.7	-1.6	-1.5	-1.0	-0.7	-0.9	-2.2	-3.0	-3.2	-3.4	-3.3	-3.8	-4.5	-5.2	-6.0	-6.6	-7.6	-3.4	-0.7
9-Feb	-8.4	-9.3	-9.6	-10.0	-10.2	-10.4	-9.5	-8.7	-8.7	-7.1	-5.4	-2.6	-0.8	-0.6	0.5	1.2	0.3	-3.8	-6.6	-7.0	-7.0	-7.0	-6.8	-6.7	-6.0	1.2
10-Feb	-6.9	-7.1	-7.6	-7.4	-6.9	-6.6	-6.0	-5.4	-5.8	-5.5	-3.8	-1.2	0.8	1.3	1.4	1.6	1.5	-0.2	-1.2	-2.4	-3.1	-3.3	-3.1	-3.4	-3.3	1.6
11-Feb	-3.8	-3.9	-4.5	-5.1	-5.6	-5.5	-5.4	-5.5	-5.2	-4.0	-2.5	0.0	2.0	3.1	3.1	3.2	2.7	1.0	-0.3	-0.8	-1.4	-1.3	-1.2	-0.5	-1.7	3.2
12-Feb	-0.8	-0.7	-0.4	-0.5	-0.2	-1.0	-1.6	-1.8	-1.9	-1.1	0.6	2.0	3.2	4.2	4.8	4.9	4.7	3.4	2.3	1.7	1.6	1.4	2.8	2.3	1.2	4.9
13-Feb	1.6	1.8	1.4	0.7	0.3	0.0	-1.0	-1.1	-1.9	-0.6	0.7	1.7	2.4	2.9	3.4	3.3	2.7	0.9	-0.7	-1.7	-2.0	-2.5	-3.3	-3.3	0.2	3.4
14-Feb	-3.7	-5.0	-5.7	-5.6	-5.7	-5.6	-6.7	-6.3	-5.8	-2.8	-1.0	-0.3	1.7	2.8	2.5	2.9	2.2	0.3	-1.3	-2.5	-3.1	-3.9	-4.9	-5.7	-2.6	2.9
15-Feb	-6.7	-7.4	-8.2	-7.7	-7.5	-7.9	-8.3	-8.5	-8.6	-6.9	-6.2	-5.9	-5.8	-5.5	-5.3	-5.7	-7.6	-8.6	-11.1	-13.0	-14.3	-15.5	-16.4	-17.6	-9.0	-5.3
16-Feb	-19.0	-20.3	-21.4	-21.4	-22.6	-24.0	-24.5	-25.1	-24.5	-22.9	-20.6	-18.6	-16.9	-15.7	-14.9	-14.5	-15.4	-16.4	-17.8	-19.0	-19.7	-20.2	-20.9	-21.2	-19.9	-14.5
17-Feb	-21.0	-20.9	-21.0	-20.9	-21.1	-21.3	-21.6	-21.9	-22.1	-22.2	-22.4	-22.4	-21.9	-21.7	-21.6	-21.8	-21.9	-22.6	-23.6	-23.9	-24.3	-25.0	-25.4	-25.8	-22.4	-20.9
18-Feb	-26.3	-26.9	-27.3	-27.4	-27.8	-28.4	-28.8	-29.1	-29.0	-28.6	-28.2	-27.2	-26.4	-26.1	-25.9	-25.7	-25.9	-27.4	-28.8	-29.9	-30.7	-31.6	-32.3	-32.5	-28.3	-25.7
19-Feb	-32.3	-32.4	-32.7	-33.0	-33.3	-33.2	-32.7	-32.3	-31.1	-29.8	-27.1	-25.4	-23.8	-22.2	-20.9	-20.1	-20.3	-21.5	-23.1	-23.5	-24.0	-24.7	-25.6	-26.0	-27.1	-20.1
20-Feb	-26.6	-26.6	-26.3	-26.7	-26.2	-26.1	-26.8	-26.5	-24.7	-22.0	-19.3	-17.3	-15.4	-13.5	-12.6	-13.3	-13.6	-13.9	-14.3	-14.4	-14.6	-15.0	-15.3	-15.6	-19.4	-12.6
21-Feb	-15.9	-16.3	-16.7	-17.2	-17.9	-18.9	-20.4	-22.1	-22.7	-22.6	-21.0	-19.6	-19.1	-18.3	-17.9	-18.3	-18.7	-19.6	-20.0	-20.0	-19.8	-19.9	-19.8	-19.7	-19.3	-15.9
22-Feb	-19.9	-20.2	-20.3	-20.5	-20.7	-20.8	-20.8	-20.8	-20.6	-20.0	-19.1	-18.2	-17.5	-17.2	-17.4	-17.3	-17.7	-18.0	-18.3	-18.3	-18.4	-18.4	-18.4	-18.5	-19.1	-17.2
23-Feb	-18.6	-18.8	-18.9	-19.1	-19.3	-19.6	-20.7	-21.2	-20.7	-19.5	-18.2	-16.7	-16.6	-16.5	-16.0	-15.9	-15.8	-16.1	-16.7	-16.7	-16.8	-16.9	-17.1	-17.7	-17.9	-15.8
24-Feb	-17.7	-17.7	-17.9	-18.3	-18.3	-18.3	-18.7	-20.1	-19.9	-18.2	-16.5	-14.6	-13.4	-12.1	-11.1	-11.0	-11.2	-11.5	-11.9	-11.7	-11.6	-11.8	-11.6	-11.5	-14.9	-11.0
25-Feb	-11.5	-10.9	-10.5	-10.4	-10.1	-9.5	-8.6	-6.7	-5.5	-5.3	-5.1	-4.4	-3.6	-2.9	-2.3	-1.6	-1.6	-1.8	-2.0	-2.4	-2.4	-2.2	-2.6	-2.8	-5.3	-1.6
26-Feb	-3.2	-3.5	-3.6	-4.0	-3.2	-1.7	-1.3	-0.8	-0.3	0.3	1.0	1.4	0.4	0.1	-2.0	-6.0	-9.9	-11.7	-12.9	-13.4	-15.5	-18.1	-19.4	-20.0	-6.1	1.4
27-Feb	-20.6	-22.0	-23.4	-24.3	-25.1	-25.9	-26.3	-27.2	-26.3	-24.8	-23.6	-22.7	-21.9	-21.1	-20.5	-20.2	-20.3	-21.5	-23.2	-26.0	-28.3	-27.7	-28.0	-29.5	-24.2	-20.2
28-Feb	-31.5	-32.0	-32.7	-30.9	-30.4	-30.0	-28.9	-28.8	-27.0	-24.6	-22.0	-19.0	-16.6	-15.0	-13.8	-13.1	-13.2	-14.6	-15.5	-15.8	-17.0	-18.0	-18.5	-18.8	-22.0	-13.1
	-11.8	-12.1	-12.3	-12.3	-12.2	-12.4	-12.5	-12.5	-12.2	-11.3	-10.3	-9.1	-8.2	-7.6	-7.3	-7.3	-7.8	-8.9	-9.9	-10.5	-11.0	-11.3	-11.5	-11.8	Diurnal Average	
	4.0	4.1	4.2	5.4	8.1	6.8	6.8	7.2	6.1	3.5	1.3	2.4	4.0	5.5	6.4	6.8	6.2	5.2	4.8	4.6	5.0	5.2	5.4	4.4	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Kirby South - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	149	22.17	22.17
-20 - 0	440	65.48	87.65
0 - 10	83	12.35	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Relative Humidity 2m (RH2) - %

Kirby South - February 2026

Maximum Value: 97.4 % on Feb 8 12:00

Maximum Daily Average: 95.3 % on Feb 7

Minimum Value: 33.0 % on Feb 13 15:00

Minimum Daily Average: 44.0 % on Feb 13

Maximum Diurnal Average: 81.4 % at hour 8

Minimum Diurnal Average: 69.7 % at hour 15

Monthly Average: 77.08 %

Percentiles: P_1 = 39.8 P_{10} = 59.4 Q_1 = 70.5 Median = 77.1 Q_3 = 88.6 P_{90} = 94.6 P_{99} = 97.0

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

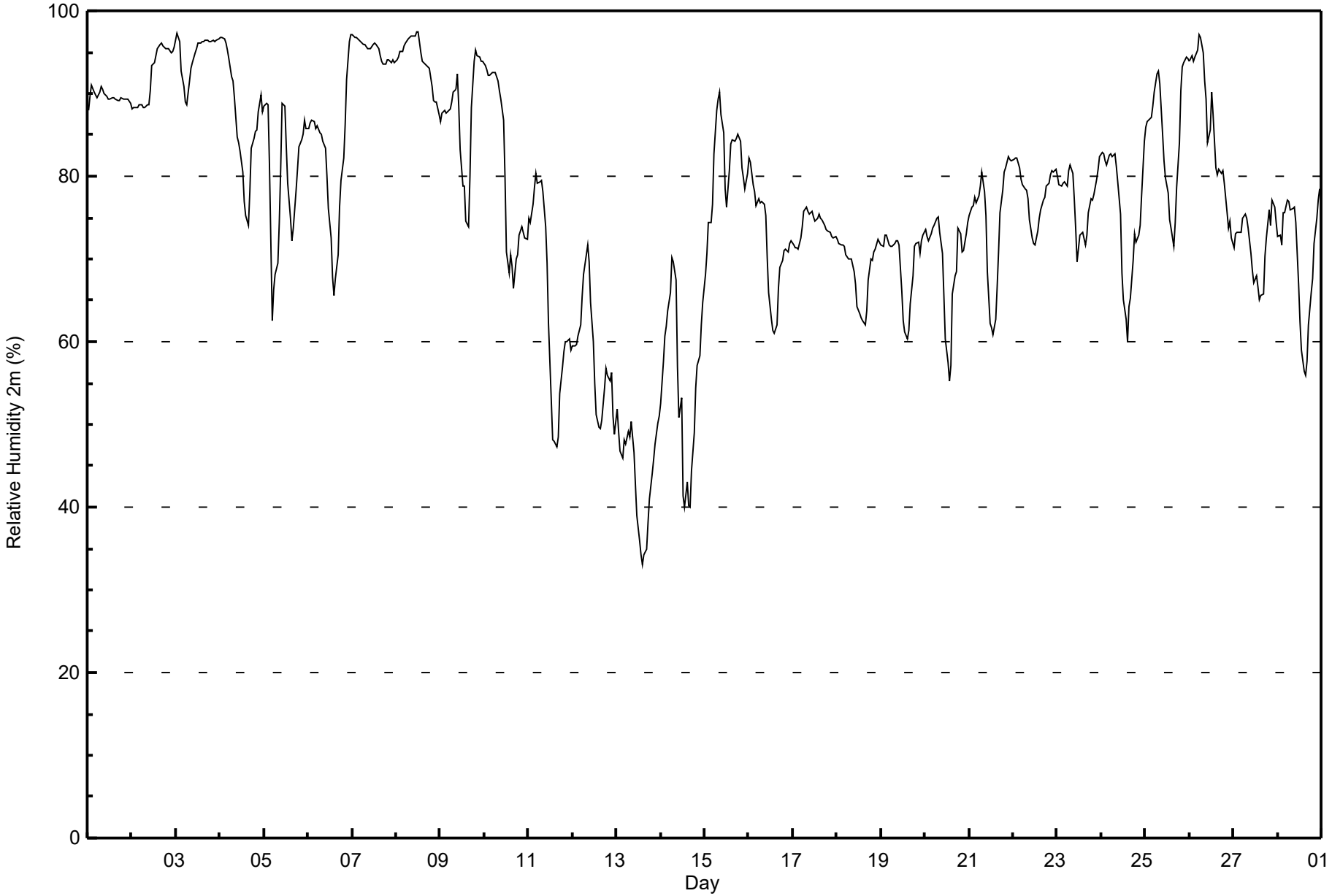
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	88.0	89.7	91.0	90.2	89.8	89.5	90.2	90.9	90.5	90.1	89.7	89.3	89.4	89.4	89.5	89.3	89.2	89.2	89.4	89.3	89.3	89.3	89.3	88.9	89.6	91.0
2-Feb	88.2	88.3	88.3	88.3	88.7	88.6	88.2	88.3	88.6	88.7	90.4	93.4	93.8	94.6	95.5	95.9	96.2	95.8	95.4	95.4	95.4	95.0	95.1	95.6	92.1	96.2
3-Feb	97.3	96.8	96.3	92.7	90.8	89.0	88.7	91.6	93.1	93.8	94.9	95.4	96.1	96.1	96.3	96.3	96.4	96.4	96.2	96.3	96.4	96.3	96.4	96.6	94.8	97.3
4-Feb	96.7	96.8	96.7	96.1	95.2	94.2	92.1	91.6	89.4	84.8	84.0	83.0	80.6	76.9	75.3	74.2	78.1	83.4	84.6	85.5	85.5	87.7	89.9	87.8	87.1	96.8
5-Feb	88.5	88.8	88.7	81.3	62.6	66.2	68.2	69.5	74.3	80.8	88.7	88.5	83.6	79.1	74.9	72.2	73.7	78.3	80.9	83.5	84.4	85.1	86.8	85.8	79.8	88.8
6-Feb	85.8	86.4	86.7	86.7	85.7	86.0	85.3	85.1	84.3	83.3	80.0	76.2	72.5	67.9	65.5	67.6	70.4	76.4	79.6	82.2	86.2	91.6	96.3	97.1	81.9	97.1
7-Feb	97.1	96.8	96.7	96.6	96.4	96.2	96.0	95.9	95.5	95.4	95.5	96.0	96.1	96.0	95.4	94.6	93.8	93.5	93.6	94.0	94.1	93.7	94.0	93.7	95.3	97.1
8-Feb	94.1	94.4	95.0	95.1	95.8	96.2	96.7	96.8	97.0	96.9	97.0	97.4	97.4	94.8	94.0	93.8	93.5	93.2	93.0	90.8	89.2	89.0	89.1	87.5	94.1	97.4
9-Feb	86.6	87.6	88.0	87.6	87.9	88.2	89.0	90.1	90.4	92.3	88.4	83.3	78.8	78.7	74.6	73.9	80.0	88.3	94.0	95.3	94.6	94.4	93.8	93.9	87.5	95.3
10-Feb	93.3	92.9	92.2	92.2	92.5	92.5	92.5	91.5	90.4	89.4	86.7	79.8	70.9	68.3	70.5	69.1	66.5	70.1	70.4	72.8	74.0	73.3	72.6	72.3	80.7	93.3
11-Feb	74.9	74.4	76.5	78.7	80.3	79.2	79.3	79.5	78.2	73.9	69.6	62.2	52.9	48.1	48.0	47.3	48.5	53.7	57.0	58.7	60.0	60.0	60.4	59.0	65.0	80.3
12-Feb	59.5	59.4	59.7	60.7	62.0	65.4	68.2	70.5	71.6	69.7	64.8	59.9	55.0	51.1	49.7	49.6	50.6	54.5	56.8	56.0	55.2	56.3	51.1	48.9	58.6	71.6
13-Feb	51.9	49.2	46.8	45.9	48.1	47.7	49.2	48.5	50.4	46.6	42.7	39.0	35.9	34.2	33.0	34.2	35.0	38.1	41.0	44.1	45.8	47.7	50.2	51.0	44.0	51.9
14-Feb	52.5	57.6	60.6	61.8	63.7	66.0	70.3	69.6	67.4	57.0	50.9	53.2	41.4	40.1	43.0	40.1	40.0	44.4	49.0	54.5	57.1	58.4	62.0	64.8	55.2	70.3
15-Feb	68.2	70.6	74.4	74.3	76.5	82.7	88.0	89.4	90.2	87.4	85.2	78.5	76.2	80.7	84.0	84.4	84.2	84.5	85.1	84.3	81.1	79.8	78.5	80.4	81.2	90.2
16-Feb	82.3	81.7	79.1	78.2	76.5	77.2	76.8	76.9	76.6	75.3	70.2	65.9	62.7	61.3	61.0	62.0	66.4	69.0	69.8	71.0	71.3	70.8	71.8	72.3	71.9	82.3
17-Feb	71.7	71.3	71.3	71.3	72.5	73.9	75.7	76.3	75.8	75.4	75.8	75.0	74.5	75.0	75.4	75.0	74.7	74.1	73.5	73.4	73.3	72.8	72.5	72.7	73.9	76.3
18-Feb	72.3	71.9	71.8	71.7	71.5	70.6	70.0	69.9	69.9	68.5	67.0	64.2	63.4	62.9	62.5	62.0	63.7	67.5	70.0	69.8	70.9	71.2	72.4	72.0	68.7	72.4
19-Feb	71.6	71.6	72.9	72.9	71.7	71.6	71.6	71.9	72.2	72.2	71.6	66.1	62.6	61.2	60.3	61.4	64.6	67.9	71.6	71.8	72.0	70.8	72.2	72.9	69.5	72.9
20-Feb	73.5	72.7	72.1	73.0	73.7	74.1	75.0	75.0	73.2	70.7	65.7	60.3	57.5	55.3	57.2	65.7	68.0	68.4	73.7	73.1	70.8	71.1	73.0	74.4	69.5	75.0
21-Feb	75.3	76.3	76.4	77.5	76.8	77.6	78.8	80.5	78.1	75.2	68.5	62.3	61.6	60.8	62.7	66.7	70.8	75.6	78.4	80.5	81.1	82.4	82.1	81.9	74.5	82.4
22-Feb	82.0	82.2	82.2	81.0	79.7	79.0	78.4	78.3	77.2	74.8	72.5	71.9	71.8	73.3	75.0	75.9	77.2	77.5	78.7	79.1	80.1	80.6	80.5	80.8	77.9	82.2
23-Feb	80.0	78.9	78.9	79.1	79.3	78.8	80.6	81.3	80.3	77.3	73.8	69.7	72.8	73.1	73.2	71.7	73.0	75.5	77.3	77.1	77.9	79.7	80.8	82.4	77.2	82.4
24-Feb	83.0	82.7	81.8	81.4	82.6	82.8	82.4	82.7	81.2	79.2	75.4	68.4	65.1	62.7	60.0	64.3	65.3	69.9	73.0	72.0	72.9	74.1	77.7	84.2	75.2	84.2
25-Feb	86.0	86.7	86.9	87.2	88.4	90.2	92.3	92.7	91.3	85.1	81.9	79.9	78.0	74.7	73.7	71.6	74.5	78.7	84.1	90.3	93.2	93.8	94.4	94.2	85.4	94.4
26-Feb	93.9	94.6	93.9	94.4	95.2	97.1	96.7	94.9	91.6	89.4	84.0	85.6	90.1	87.5	80.9	80.1	80.8	80.3	80.6	79.1	75.6	73.6	74.7	72.5	86.1	97.1
27-Feb	71.3	73.1	73.3	73.3	73.3	75.0	75.5	75.0	73.7	70.8	68.6	67.2	67.9	66.6	65.1	65.6	65.8	70.4	72.6	76.0	74.1	77.1	76.2	74.4	71.7	77.1
28-Feb	72.8	72.8	71.6	75.6	75.7	77.1	77.0	76.0	76.1	76.3	74.4	66.9	62.4	59.0	56.5	56.0	57.7	62.1	65.9	67.7	71.9	75.0	77.0	78.5	70.1	78.5
	79.9	80.2	80.3	80.2	79.7	80.4	81.2	81.4	81.0	79.3	77.1	74.2	71.8	70.3	69.7	70.0	71.4	74.2	76.3	77.3	77.6	78.2	79.0	79.2	Diurnal Average	
	97.3	96.8	96.7	96.6	96.4	97.1	96.7	96.8	97.0	96.9	97.0	97.4	97.4	96.1	96.3	96.3	96.4	96.4	96.2	96.3	96.4	96.3	96.4	97.1	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Kirby South - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	7	1.04	1.04
40 - 60	65	9.67	10.71
60 - 80	318	47.32	58.04
80 - 100	282	41.96	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Kirby South - February 2026

Maximum Speed: 27 km/h on Feb 17 09:00

Maximum Daily Speed Average: 23.1 km/h on Feb 17

Minimum Speed Value: 2 km/h on Feb 25 20:00

Minimum Daily Speed Average: 4.1 km/h on Feb 15

Maximum Diurnal Speed Average: 6.4 km/h at hour 13

Minimum Diurnal Speed Average: 1.9 km/h at hour 1

Monthly Average Velocity: 3.4 km/h 250.9 deg

Percentiles: $P_1 = 3$ $P_{10} = 6$ $Q_1 = 8$ Median = 11 $Q_3 = 15$ $P_{90} = 19$ $P_{99} = 26$

Hours in Service:	672
Hours of Data:	621
Hours of Missing Data:	51
Percent Operational Time:	92.4

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	NNE6	NE5	ESE5	ESE5	ESE6	ESE6	SSE7	ESE8	SE7	SSE9	SSE12	SSE13	SSE13	SSE12	SSE12	SSE12	SE10	SE11	SE12	SSE12	S14	S13	S13	S11	SSE8.6	S14
2-Feb	S11	S10	S10	S11	S11	S12	SSW13	SSW13	SSW15	SSW17	SSW14	SW14	SW12	SW12	SW13	SW15	SW14	SW13	SW11	SW12	WSW12	W13	W10	NW7	SW10.7	SSW17
3-Feb	WNW5	NW6	NW7	NNW10	NNW12	NNW10	NNW10	N11	N7	N5	WNW7	SW7	SW8	SW7	SW10	SSW10	S11	S12	S13	S14	S14	S15	S17	SSW17	SW4.4	SSW17
4-Feb	S17	SSW21	SSW19	SSW20	SSW16	SW15	SW15	SW16	WSW17	WSW21	W18	WSW18	WSW17	W18	W19	W19	W14	W11	W11	WSW11	W16	W15	WSW14	SW13	WSW14.4	WSW21
5-Feb	SW11	SW9	SW11	WSW16	W23	W21	WNW22	WNW24	NW20	NNW22	NNW20	NNW19	NNW18	NNW17	NNW12	N12	N11	N7	NE6	E5	E5	E7	ESE6	ESE4	NW8.1	WNW24
6-Feb	E5	E6	E8	ESE7	E7	SE8	ESE9	SE10	SSE12	SSE13	SSE11	S16	S14	S11	SSE9	SSE7	SE7	SSE7	S10	S15	SSW16	SSW15	SW18	SW17	SSE8.6	SW18
7-Feb	WSW14	WSW11	SW14	SW12	WSW12	WSW9	SW7	WSW5	SW4	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	SW14
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	----	----
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	W7	W6	WNW8	NW6	NNE6	NE10	ENE10	ENE10	ENE8	ENE9	E7	E8	----	ENE10
10-Feb	E7	ESE4	ESE4	SE4	S4	S4	S5	SSW7	SSW9	SSW10	SSW8	SSW10	SSW13	SSW13	SSW11	SSW11	S11	S13	S14	SSW11	SSW11	SSW12	SSW12	SW12	SSW8.3	S14
11-Feb	SW11	SW11	SW10	SW10	SW11	SW11	SW11	SW9	SW10	SW10	SW12	SW14	WSW18	WSW18	WSW18	WSW19	SW15	SW12	SW13	SW13	SW14	SW11	SW12	SW12	SW12.5	WSW19
12-Feb	SW13	SW13	SW13	WSW16	W21	W17	W16	W17	W17	W18	W17	W16	WSW16	WSW20	WSW18	SW15	SW14	SSW13	SSW13	SSW15	SSW14	SW14	WSW18	WSW16	WSW14.6	W21
13-Feb	WSW17	WSW19	W19	W20	WSW17	W20	W17	W18	WSW15	W21	W22	W24	WNW22	W20	W19	WSW17	W15	SW11	SW13	SW10	SW11	SW11	SW10	SW11	WSW15.8	W24
14-Feb	SW10	SW9	SW8	SW10	SW7	SW12	SW7	SW9	SW9	SW10	SW10	W13	WNW16	WNW12	WNW10	W10	W14	W15	W12	W14	W14	W11	W11	W10	WSW9.9	WNW16
15-Feb	WSW7	SW9	SW9	WSW8	W8	W6	W7	WNW8	WNW9	NNW9	NW8	NNW7	W7	WNW6	NNE7	NNE9	NNE12	NNE9	NNE12	NE12	NE10	NE11	NE12	NE12	NNW4.1	NNE12
16-Feb	NE11	NE10	ENE8	ENE8	ENE7	ENE7	NE8	ENE7	ENE9	E11	ENE11	ENE11	ENE11	ENE13	ENE11	ENE14	NE14	ENE14	ENE15	ENE14	ENE15	ENE17	NE18	NE18	ENE11.7	NE18
17-Feb	NE15	NE18	NE20	NE21	NE23	NE24	NE23	NE25	NE27	NE26	NE25	NNE27	NE26	NE25	NNE26	NNE23	NNE23	NNE24	NNE25	NNE24	NNE24	NNE25	NNE22	NNE21	NE23.1	NE27
18-Feb	NNE20	NNE21	NNE21	NNE18	NNE18	NNE17	N14	N17	NNE15	N15	N16	N13	N11	NNW10	NNW10	NNW10	NNW10	WNW11	WNW9	WNW9	NW7	WNW6	W8	W9	N11.3	NNE21
19-Feb	W11	W8	W8	WSW9	SW10	SW10	SW9	WSW10	WSW10	WSW12	W17	WSW14	WSW14	WSW15	WSW15	SW13	SSW13	SW12	SW12	SW15	SW14	SW14	SW10	SW8	WSW11.2	W17
20-Feb	SW9	SW8	SW10	SW7	SW8	SW7	SSW8	SW10	SW10	SW9	SW9	SW8	SW7	SW6	SW3	SSW7	SW6	SW4	WNW4	NNE4	NE4	NE7	NE7	NNE6	SW4.5	SW10
21-Feb	NE9	NE8	NE9	NNE8	NNE9	NNE9	NNE10	NNE12	NNE13	NE13	NE15	NE14	NE12	NE12	NE12	NE12	NE11	NNE11	NE11	ENE12	ENE11	ENE12	ENE8	ENE10	NE10.7	NE15
22-Feb	E11	ESE8	ESE9	ESE11	SE12	SE9	SE8	ESE10	SE10	SE12	SE12	ESE13	SE14	ESE12	ESE13	ESE13	ESE15	ESE14	ESE12	ESE12	ESE10	SE10	SE8	ESE7	ESE10.8	ESE15
23-Feb	SSE9	S9	S9	SSW8	S6	SSW7	SW5	WSW3	W6	W10	W7	W6	WNW9	W11	WNW9	WNW11	NW10	NW10	NW9	NW9	WNW8	WNW7	WNW7	W8	W5.3	W11
24-Feb	W10	W11	W10	W10	W12	W12	W11	W12	W12	W13	W14	W12	WSW15	SW16	WSW14	WSW12	SW11	SW10	SSW8	SSW9	SSW8	S9	SSW11	S9	WSW9.5	SW16
25-Feb	S10	S11	S10	SSW11	SW13	SW12	WSW12	W15	WNW15	NW15	WNW15	W15	W14	W13	WSW11	WSW12	WSW8	SSW4	S2	SE2	S3	SSE2	E3	ENE4	WSW6.7	WNW15
26-Feb	ENE5	E4	ENE4	ESE4	S3	SW8	SW11	WSW17	W18	WSW17	W22	WSW19	W26	WNW23	WNW25	NW26	NW21	NW22	NW17	NNW20	NNW21	NNW21	NNW20	NNW18	WNW12.0	NW26
27-Feb	NNW15	NNW13	NNW14	NNW12	NNW10	NNW8	NNW9	N8	NNW7	NNE9	N8	N9	N7	N8	N7	N8	NE7	ENE7	ENE6	E4	NE5	NNE7	NE6	NE5	N7.1	NNW15
28-Feb	NE2	E2	SW5	SW5	SW7	SW9	SW8	SW7	SW9	SW10	SW13	SSW14	SW16	SW17	SSW17	SSW17	SSW18	SSW16	SSW19	SSW19	SSW15	SSW13	SSW15	SW15	SSW11.6	SSW19
	SW1.9	SW2.2	SW2.5	SW3.3	WSW3.8	WSW4.2	WSW4.0	W4.3	W4.1	W4.5	W5.4	W5.5	WSW6.4	W6.0	W5.2	W4.4	W2.6	WSW2.2	SW1.9	SSW2.4	SW2.5	SW2.1	SW2.8	SW2.5	Diurnal Average	
	NNE20	SSW21	NNE21	NE21	W23	NE24	NE23	NE25	NE27	NE26	NE25	NNE27	W26	NE25	NNE26	NW26	NNE23	NNE24	NNE25	NNE24	NNE24	NNE25	NNE22	NNE21	Diurnal Maximum	

UO - Unstable Operation

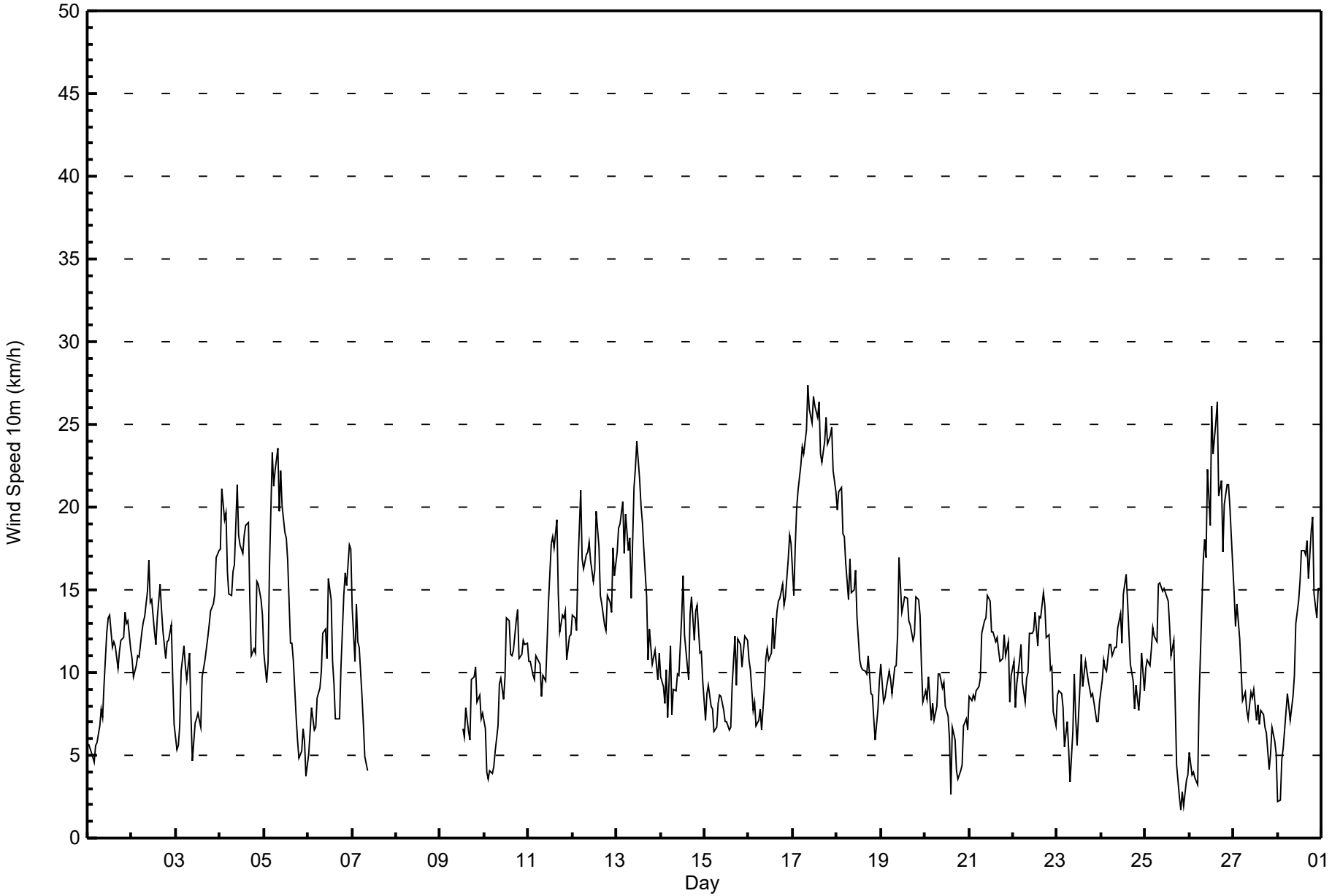
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Kirby South - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	43	6.92	6.92
6 - 11	281	45.25	52.17
12 - 19	242	38.97	91.14
20 - 28	55	8.86	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 621

Total Number of Hours: 672



Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Kirby South - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	1	1	5	3	7	6	2	1	6	1	6	2	0	2	0	0	43
6 - 11	11	14	16	19	9	12	11	8	17	19	67	11	27	17	10	13	281
12 - 19	6	8	15	9	0	8	5	9	16	29	47	35	39	4	2	10	242
20 - 28	0	14	11	0	0	0	0	0	0	2	0	2	11	5	4	6	55
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	18	37	47	31	16	26	18	18	39	51	120	50	77	28	16	29	621

Total Number of Valid Hours: 621

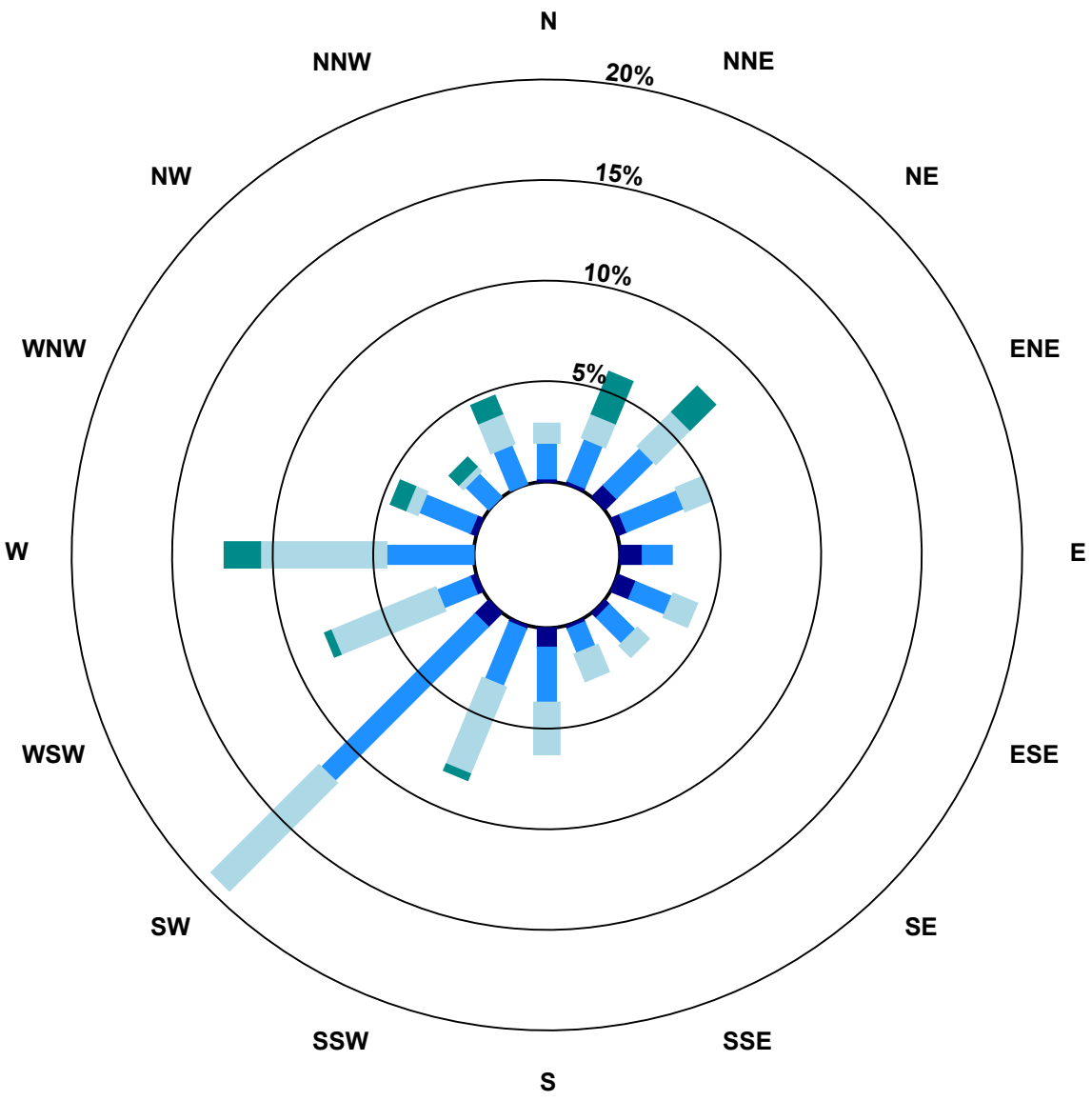
Total Number of Hours: 672

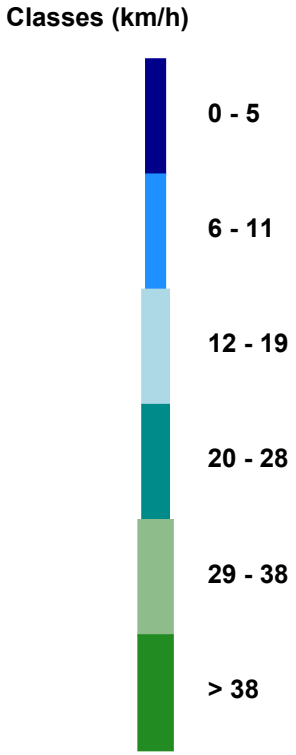
Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Kirby South





Total Number of Valid Hours: 621

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Kirby South - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 8 km/h on Feb 26 13:00

Minimum Value: 0 km/h on Feb 28 02:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 2 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 6

Hours in Service:	672
Hours of Data:	621
Hours of Missing Data:	51
Hours of Calibration:	0
Percent Operational Time:	92.4

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	1	1	1	1	1	2	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2-Feb	3	2	2	3	2	3	3	3	3	3	3	3	3	2	3	3	3	2	2	1	2	2	2	1	3
3-Feb	1	1	1	3	3	3	3	3	2	2	2	2	3	2	3	3	3	3	3	3	3	4	4	4	4
4-Feb	4	5	4	4	4	3	3	3	3	3	4	4	3	3	4	4	2	2	2	2	3	3	3	2	5
5-Feb	2	2	2	5	4	4	4	5	5	6	6	5	5	5	4	3	3	2	1	1	1	1	1	1	6
6-Feb	1	1	2	1	1	2	2	2	3	3	3	4	3	3	2	2	1	1	3	3	4	4	3	3	4
7-Feb	4	3	3	2	2	2	2	2	1	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	4
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	3	3	2	1	2	2	2	2	2	2	2	1	3
10-Feb	1	1	1	1	1	1	1	1	2	2	2	2	3	3	2	3	2	2	2	2	2	2	2	2	3
11-Feb	2	2	2	2	2	2	2	2	2	2	3	3	4	4	4	4	3	2	2	2	2	2	3	2	4
12-Feb	2	2	2	4	3	3	3	3	3	3	3	3	4	4	4	4	4	3	3	3	3	3	4	3	4
13-Feb	3	4	4	3	3	3	3	4	3	4	4	5	5	4	5	4	4	2	2	2	2	2	2	2	5
14-Feb	2	2	2	2	2	2	2	3	2	2	2	3	3	3	2	3	3	2	2	2	2	2	1	2	3
15-Feb	1	2	2	2	3	2	2	2	2	3	3	2	2	2	2	3	3	3	3	2	2	3	3	2	3
16-Feb	2	2	2	2	2	2	1	1	1	2	3	3	3	3	2	3	3	3	3	3	3	4	5	4	5
17-Feb	4	4	4	4	5	5	5	6	6	6	5	6	6	6	6	6	5	6	6	5	6	6	5	5	6
18-Feb	5	5	5	4	4	4	4	4	4	4	4	4	3	3	3	3	2	2	2	1	1	1	1	2	5
19-Feb	1	3	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	3
20-Feb	2	2	2	2	3	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	3
21-Feb	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	2	2	3	3	3	3	2	3	3
22-Feb	2	2	2	2	3	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	3
23-Feb	2	2	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	2
24-Feb	2	2	2	2	2	2	2	2	2	3	3	3	3	4	3	3	2	2	2	2	1	2	2	2	4
25-Feb	2	2	2	3	3	2	2	4	4	4	3	3	3	3	3	3	2	1	2	1	2	2	1	1	4
26-Feb	1	1	1	1	3	2	2	4	4	5	4	4	8	5	7	7	6	6	4	5	6	6	5	6	8
27-Feb	5	4	3	3	3	2	2	2	2	3	2	3	2	3	3	2	2	1	1	1	1	1	1	1	5
28-Feb	1	0	2	1	1	1	2	1	2	3	3	3	4	4	4	4	4	4	4	4	3	2	2	2	4
	5	5	5	5	5	5	5	6	6	6	6	6	8	6	7	7	6	6	6	5	6	6	5	6	
	Diurnal Maximum																								

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Kirby South - February 2026

Direction of Maximum Speed: 39 deg on Feb 17 09:00
Direction of Maximum Daily Speed Average: 34.1 deg on Feb 17

Direction of Minimum Speed: 144 deg on Feb 25 20:00
Direction of Minimum Daily Speed Average: 4.1 deg on Feb 15

Monthly Average Direction: 250.9 deg

Hours in Service:	672
Hours of Data:	621
Hours of Missing Data:	51
Percent Operational Time:	92.4

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	24	49	102	110	104	113	152	119	126	153	157	160	161	155	156	149	137	137	143	159	172	171	181	175	148.6
2-Feb	178	180	177	184	183	186	192	195	203	209	212	217	222	223	227	231	231	223	230	236	258	276	279	304	216.5
3-Feb	282	314	316	334	339	337	339	352	11	10	284	229	234	219	216	194	189	188	190	186	186	189	190	192	228.0
4-Feb	189	196	201	198	205	216	226	229	241	257	259	248	252	263	273	275	275	272	264	250	268	269	257	226	241.3
5-Feb	222	227	216	239	272	268	282	298	312	328	341	330	342	339	344	351	354	5	55	92	91	99	111	113	309.3
6-Feb	91	95	99	108	95	124	113	139	147	147	160	177	173	170	161	150	124	151	174	188	196	205	218	222	163.9
7-Feb	250	238	234	235	239	248	236	244	225	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	268	263	301	316	18	54	61	64	75	78	85	81	--
10-Feb	93	115	102	134	171	182	190	201	195	194	192	201	210	212	206	192	188	183	188	194	201	204	209	221	193.5
11-Feb	215	218	222	222	226	222	218	219	221	218	220	228	244	242	246	239	235	225	228	224	228	225	222	220	227.9
12-Feb	223	231	233	258	266	262	261	264	264	267	269	259	238	240	237	229	218	210	200	194	211	221	238	242	241.3
13-Feb	238	258	260	267	256	264	270	264	248	267	268	273	282	275	275	258	263	234	227	229	222	222	224	216	257.2
14-Feb	217	236	228	226	233	215	220	218	218	229	232	260	282	301	294	259	265	274	268	272	275	270	266	267	254.8
15-Feb	237	229	227	238	262	264	277	288	289	327	320	340	274	299	26	17	12	15	33	42	44	48	50	43	342.5
16-Feb	46	50	62	58	61	68	56	66	68	79	78	74	72	68	70	57	56	61	60	62	58	61	56	56	62.1
17-Feb	53	42	48	48	46	44	45	42	39	43	36	33	35	34	32	29	26	23	26	24	21	21	20	19	34.1
18-Feb	18	20	20	18	15	12	9	11	13	4	8	2	356	343	331	344	338	300	300	303	308	299	276	268	355.6
19-Feb	274	264	264	241	231	226	236	238	237	240	268	255	238	244	249	229	208	219	227	228	220	216	217	216	236.7
20-Feb	215	221	218	218	222	232	199	215	219	226	234	222	229	215	235	200	221	234	296	22	37	47	50	24	222.7
21-Feb	37	35	35	29	29	33	25	21	27	45	42	43	46	34	46	43	42	33	37	58	64	66	65	72	42.0
22-Feb	82	102	104	116	127	131	132	120	126	136	128	121	124	120	112	102	106	109	108	116	118	138	136	121	117.6
23-Feb	153	169	172	195	183	209	217	258	265	277	281	264	289	275	296	302	309	311	307	309	302	296	289	276	269.7
24-Feb	279	278	280	276	276	276	279	271	266	273	274	261	246	233	239	239	236	217	203	201	193	187	196	181	247.9
25-Feb	173	171	169	198	214	229	242	265	287	307	282	280	268	277	256	252	253	212	171	144	190	167	94	62	245.9
26-Feb	72	90	75	112	189	214	221	243	264	242	265	256	272	289	295	314	324	312	315	331	334	333	337	340	296.9
27-Feb	342	336	334	336	338	329	335	359	346	19	356	353	351	5	2	7	34	76	65	83	50	32	41	46	0.9
28-Feb	55	94	233	228	232	214	215	216	218	224	222	213	216	216	212	210	197	202	204	211	211	212	213	218	212.4
	221.4	228.5	224.0	235.4	250.9	245.1	251.5	263.2	263.0	267.4	271.4	259.2	258.6	263.7	267.1	265.2	265.4	239.8	218.8	211.6	228.2	225.2	228.6	228.2	
	Diurnal Average																								

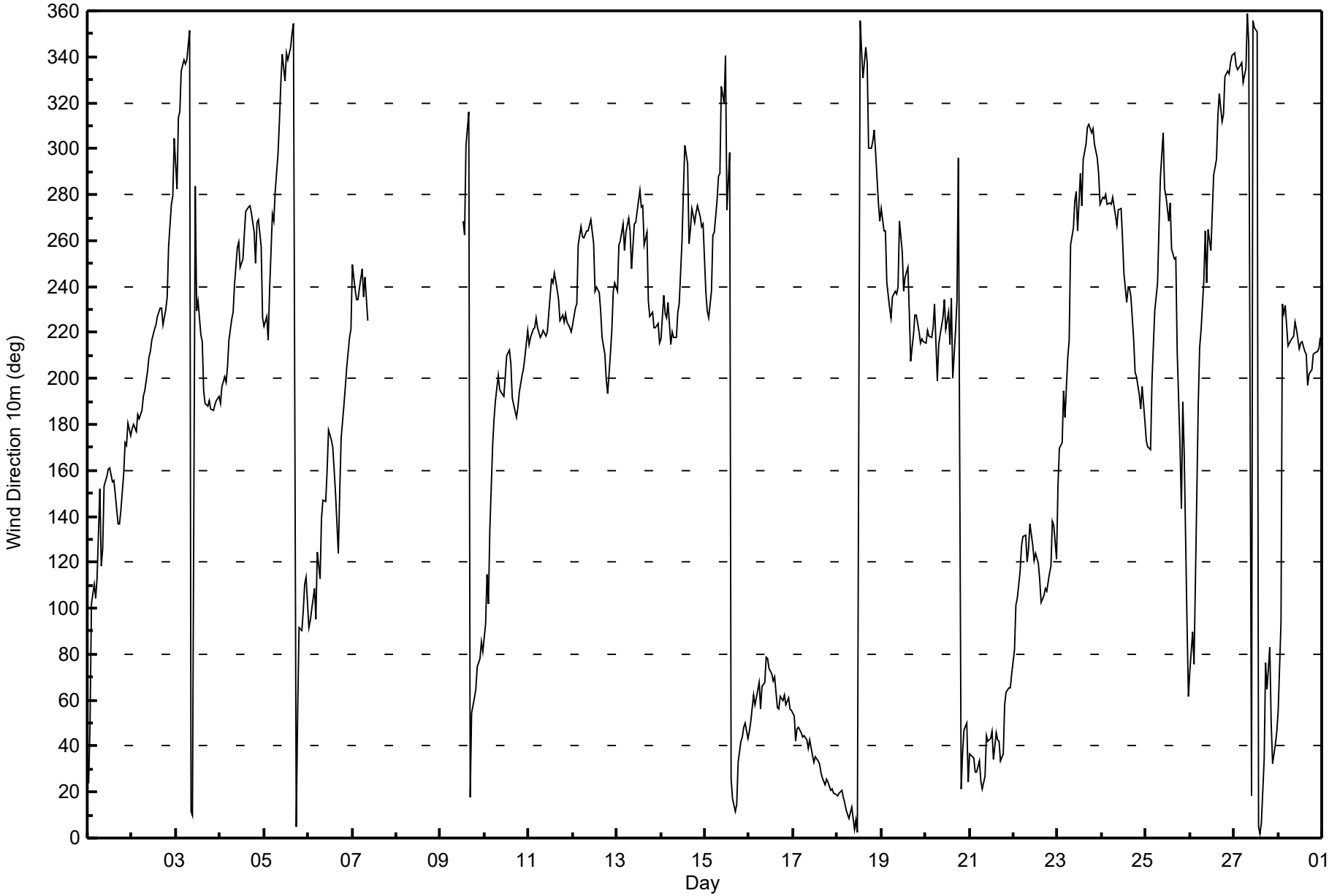
UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Kirby South - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Kirby South - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 73 deg on Feb 25 22:00

Minimum Value: 6 deg on Feb 28 06:00

Percentiles: P_1 = 8 P_{10} = 10 Q_1 = 12 Median = 14 Q_3 = 17 P_{90} = 21 P_{99} = 38

Hours in Service:	672
Hours of Data:	621
Hours of Missing Data:	51
Hours of Calibration:	0
Percent Operational Time:	92.4

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	15	23	17	15	14	19	19	15	20	21	15	16	15	15	15	16	15	13	13	16	14	15	14	15	23
2-Feb	16	16	16	15	16	14	14	15	14	13	14	14	15	14	13	13	11	11	10	8	15	9	11	15	16
3-Feb	14	21	17	16	17	17	19	20	16	35	37	21	17	35	21	20	19	16	15	16	16	16	14	15	37
4-Feb	15	17	13	15	15	15	13	15	12	9	10	13	12	10	12	11	9	8	7	14	14	11	17	10	17
5-Feb	10	10	13	25	11	10	14	14	17	16	17	16	18	19	21	21	19	19	20	20	20	17	22	38	38
6-Feb	17	15	14	22	18	12	15	17	16	15	17	17	14	19	18	17	11	21	16	13	14	14	12	12	22
7-Feb	31	21	12	12	12	12	13	15	12	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	31
8-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--
9-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	9	20	35	19	29	13	16	12	14	14	18	14	35
10-Feb	20	17	22	21	18	18	20	12	14	13	13	14	14	12	12	13	13	11	12	11	12	13	12	12	22
11-Feb	12	10	11	11	12	11	10	13	11	13	14	14	13	14	15	12	13	10	10	14	11	11	12	12	15
12-Feb	11	12	13	15	9	13	11	10	9	9	10	15	14	15	13	15	14	15	13	12	16	13	17	13	17
13-Feb	12	13	13	10	14	9	9	10	11	10	10	13	13	15	15	16	14	17	8	11	11	11	11	9	17
14-Feb	11	19	11	11	10	11	14	12	10	11	17	14	13	17	24	25	16	8	9	8	9	14	8	10	25
15-Feb	15	11	11	15	25	14	33	16	16	18	27	25	25	29	23	17	18	21	13	14	15	13	13	11	33
16-Feb	12	14	12	13	17	16	12	12	11	15	17	18	20	17	18	14	13	12	12	13	13	12	13	12	20
17-Feb	15	12	12	13	13	13	12	12	12	12	12	13	12	13	12	14	13	14	13	13	14	13	13	13	15
18-Feb	13	13	13	13	13	15	16	15	15	17	15	19	21	25	20	18	18	14	10	10	12	16	8	6	25
19-Feb	6	11	11	16	9	10	13	13	14	17	13	19	18	15	15	20	14	13	9	9	10	10	10	11	20
20-Feb	10	10	11	14	19	16	11	9	10	12	14	14	22	26	53	25	17	12	20	29	16	14	15	15	53
21-Feb	13	12	12	12	13	12	13	11	15	14	16	17	20	19	20	14	13	13	14	14	14	14	14	13	20
22-Feb	16	14	13	14	14	13	15	12	14	14	18	15	17	18	15	15	13	13	14	13	14	14	16	13	18
23-Feb	14	16	15	15	23	19	37	35	23	14	18	33	22	13	27	19	13	14	13	13	14	12	13	8	37
24-Feb	8	8	13	12	8	8	8	8	9	8	9	19	18	16	17	17	16	14	11	11	13	14	13	16	19
25-Feb	14	15	16	16	13	13	10	17	14	19	14	13	18	13	20	19	14	23	62	47	44	73	23	22	73
26-Feb	22	22	19	15	59	14	13	14	13	15	13	16	20	17	16	15	16	17	14	17	17	15	17	16	59
27-Feb	17	17	14	16	17	18	16	15	21	21	22	23	27	27	35	23	21	14	12	22	9	10	8	8	35
28-Feb	26	24	17	12	13	6	7	9	11	13	12	16	19	18	17	18	16	13	12	13	13	11	10	10	26
	31	24	22	25	59	19	37	35	23	35	37	33	27	35	53	25	29	23	62	47	44	73	23	38	
	Diurnal Maximum																								

UO - Unstable Operation

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT

AMS511
BLACKGOLD
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BLACKGOLD (AMS511)
FEBRUARY 2026

MONTHLY SUMMARY

Parameter	Hours of Data	Hours of Calibration	Hours without Data	Operational Time	Maximum 1-Hour Value	1-Hour Exceedances	Maximum 24-Hour Value	24-Hour Exceedances
SO2 (ppb) Average	640	32	32	100	11.8	0	4.3	0
H2S (ppb) Average	639	33	33	100	0.7	0	0.2	0
THC (ppm) Average	640	32	32	100	2.7	-	2.5	-
NO2 (ppb) Average	609	32	63	95.39	17	0	8	-
NO (ppb) Average	609	32	63	95.39	13.4	-	2.1	-
NOX (ppb) Average	609	32	63	95.39	25.5	-	9.4	-
Temperature 2 m (C) Average	672	0	0	100	9.1	-	3.8	-
Relative Humidity (%) Average	672	0	0	100	97.5	-	93.7	-
Wind Speed 10 m (km/h) Average	671	0	1	99.85	21	-	13	-
Wind Direction 10 m (deg) Average	671	0	1	99.85	-	-	-	-

Note : Operational time includes periods of data collection and instrument calibration

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BLACKGOLD (AMS511)
FEBRUARY 2026

MONTHLY SUMMARY FOR AIR QUALITY/ METEOROLOGICAL MONITORING MEASUREMENTS

					Percentile						
Parameter	Number	Mean	StnDev	Total	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb) Average	640	1.02	1.7	-	0	0.1	0.2	0.4	1	2.5	11.8
H2S (ppb) Average	639	0.1	0.1	-	0	0	0	0.1	0.1	0.2	0.7
THC (ppm) Average	640	2.42	0.1	-	2.2	2.3	2.4	2.4	2.5	2.5	2.7
NO2 (ppb) Average	609	2.85	2.2	-	0.1	0.8	1.3	2.4	3.7	5.4	17
NO (ppb) Average	609	0.59	1.2	-	0	0	0	0.1	0.6	1.7	13.4
NOX (ppb) Average	609	3.44	3	-	0.1	0.9	1.5	2.6	4.3	6.9	25.5
Temperature 2 m (C) Average	672	-11.1	10.4	-	-39.4	-26	-19.2	-8.9	-3	1.1	9.1
Relative Humidity (%) Average	672	75.95	13.5	-	30.7	56.9	69.7	77	86.4	92.3	97.5
Wind Speed 10 m (km/h) Average	671	7.4	4	-	0	3	4	7	10	13	21
Wind Direction 10 m (deg) Average	671	-	-	-	-	-	-	-	-	-	-

WOOD BUFFALO ENVIRONMENTAL ASSOCIATION - BLACKGOLD (AMS511)
FEBRUARY 2026

OPERATIONAL NOTES

Parameter	Period Start	Period End	Duration (Hours)	Notes
NO2	18 Feb 2026 07:00	19 Feb 2026 13:00	31	Unstable Operation - station temp fluctuating
Wind Speed, Wind Direction	16 Feb 2026 08:00	16 Feb 2026 08:00	1	Flat line in sensor output signal - Sensor frozen

Wood Buffalo Environmental Association

Summary of Hour Averages

Sulphur Dioxide (SO_2) - ppb

Blackgold - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 11.8 ppb on Feb 11 13:00 Maximum Daily Average: 4.3 ppb on Feb 12

Minimum Value: 0.0 ppb on Feb 9 07:00 Minimum Daily Average: 0.0 ppb on Feb 17
Maximum Diurnal Average: 1.8 ppb at hour 11 Minimum Diurnal Average: 0.5 ppb at hour 18
Monthly Average: 1.02 ppb Percentiles: P_1 = 0.0 P_{10} = 0.1 Q_1 = 0.2 Median = 0.4 Q_3 = 1.0 P_{90} = 2.5 P_{99} = 9.9

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	1.2	2.0	Z	1.4	1.0	0.7	0.7	1.0	1.0	1.1	0.8	0.9	1.0	1.0	0.6	0.5	1.0	0.3	0.1	0.1	0.9	0.8	1.4	1.6	0.9	2.0
2-Feb	1.7	1.8	1.6	Z	0.9	0.8	0.6	0.8	2.4	1.8	0.3	0.2	0.4	0.6	2.8	1.7	0.8	1.6	0.6	0.2	0.1	0.1	0.1	0.2	1.0	2.8
3-Feb	0.1	0.2	0.1	0.1	Z	0.3	0.3	0.3	0.1	0.2	0.6	0.6	0.5	0.7	0.6	0.7	0.6	0.2	0.3	0.2	0.4	0.2	0.4	0.4	0.4	0.7
4-Feb	0.3	2.2	1.6	2.0	0.3	Z	0.3	4.5	11.0	10.5	5.2	3.7	7.5	2.8	4.8	1.1	0.8	0.2	0.2	2.0	6.1	0.3	3.0	3.1	3.2	11.0
5-Feb	Z	3.7	1.7	2.0	0.5	0.3	0.3	0.1	0.1	0.5	0.6	0.8	0.6	0.4	0.5	0.8	1.1	1.2	1.1	0.8	0.7	1.1	1.2	1.5	0.9	3.7
6-Feb	1.8	Z	1.3	0.8	0.6	0.5	0.5	0.6	1.1	1.9	0.7	0.5	0.9	2.0	2.8	0.9	0.7	0.6	0.6	1.1	2.9	1.1	0.5	0.3	1.1	2.9
7-Feb	0.2	0.1	Z	0.5	0.7	1.7	0.3	0.6	0.2	0.2	0.2	0.8	2.0	3.6	3.2	2.0	1.1	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.9	3.6
8-Feb	0.1	0.1	0.0	Z	0.3	0.4	0.4	0.3	0.3	0.3	1.7	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.3	1.7
9-Feb	0.2	0.3	0.3	0.0	Z	0.2	0.0	0.0	0.1	0.2	1.6	0.5	1.4	0.9	0.4	0.1	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.3	1.6
10-Feb	0.1	0.0	0.1	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.3	0.8	0.9	0.6	0.5	0.6	0.3	0.9	2.6	9.7	1.1	0.9	0.8	0.8	0.9	9.7
11-Feb	Z	1.0	0.9	1.3	0.6	0.6	0.9	2.5	1.4	3.6	5.6	5.1	11.8	10.4	4.3	7.9	3.4	0.2	0.3	1.0	3.3	0.3	1.0	1.6	3.0	11.8
12-Feb	4.8	Z	1.5	1.9	7.1	6.3	10.4	5.7	1.0	6.3	10.0	11.7	7.5	6.3	0.9	0.4	0.1	0.2	0.3	0.8	0.8	1.1	9.4	4.0	4.3	11.7
13-Feb	1.1	3.0	Z	7.7	0.8	0.7	0.8	3.2	7.2	7.1	0.8	0.2	0.2	0.2	0.1	0.4	4.6	0.3	0.2	0.2	0.2	0.1	0.0	0.1	1.7	7.7
14-Feb	0.0	0.1	0.1	Z	0.0	0.2	0.2	0.2	0.4	0.2	6.4	3.6	0.1	0.2	0.3	0.3	0.1	0.1	0.2	0.3	1.6	1.8	0.5	0.5	0.8	6.4
15-Feb	0.4	0.2	1.4	0.9	Z	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.8	0.8	0.7	0.5	1.0	1.0	1.1	1.8	5.2	3.1	0.9	5.2
16-Feb	1.4	0.8	0.3	0.3	0.2	Z	0.1	0.2	0.2	0.2	0.3	1.4	2.1	1.6	1.1	0.4	0.4	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.5	2.1
17-Feb	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.5	0.1	0.0	0.1	0.1	0.5
19-Feb	0.2	0.4	Z	0.5	0.4	0.5	1.1	1.9	0.6	2.5	5.3	1.3	2.8	1.9	3.5	0.9	0.4	0.2	0.1	0.1	0.1	0.0	0.1	1.5	1.1	5.3
20-Feb	2.0	1.1	0.4	Z	0.2	0.1	0.0	0.1	0.2	0.5	1.1	1.4	1.9	2.5	3.6	4.5	4.3	1.9	0.7	0.9	1.0	0.5	0.4	0.3	1.3	4.5
21-Feb	0.3	0.3	0.7	1.0	Z	0.4	0.3	0.4	0.4	0.5	0.3	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	1.0
22-Feb	0.1	0.1	0.1	0.2	0.1	Z	0.2	0.1	0.1	0.4	0.8	0.6	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.8
23-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.1	0.2	0.1	0.1	C	C	C	C	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
24-Feb	0.1	Z	0.1	0.3	0.9	0.2	0.3	0.8	1.4	0.9	3.6	2.3	3.6	1.8	3.2	3.3	1.3	0.3	0.3	0.3	0.4	0.5	0.9	1.0	1.2	3.6
25-Feb	1.5	0.5	Z	1.2	1.0	0.8	0.5	0.6	0.4	0.4	0.4	1.6	1.1	3.9	0.6	1.7	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.9	3.9
26-Feb	0.3	0.4	0.5	Z	0.4	0.4	0.4	0.5	0.2	0.3	0.4	3.5	0.7	0.2	0.4	0.9	1.2	1.9	1.8	1.7	1.4	0.9	1.7	1.7	0.9	3.5
27-Feb	2.1	0.8	1.0	1.7	Z	2.0	1.7	1.5	1.9	1.6	1.2	0.9	0.6	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.8	2.1
28-Feb	0.0	0.0	0.0	0.2	0.1	Z	0.1	0.1	0.6	0.8	0.6	0.3	0.5	0.2	0.6	1.5	0.4	0.2	1.2	0.5	0.5	0.6	0.7	0.9	0.5	1.5
	0.8	0.8	0.6	1.0	0.7	0.8	0.7	0.9	1.2	1.5	1.8	1.6	1.7	1.6	1.3	1.2	0.9	0.5	0.5	0.8	0.9	0.5	1.0	0.9	Diurnal Average	
	4.8	3.7	1.7	7.7	7.1	6.3	10.4	5.7	11.0	10.5	10.0	11.7	11.8	10.4	4.8	7.9	4.6	1.9	2.6	9.7	6.1	1.8	9.4	4.0	Diurnal Maximum	

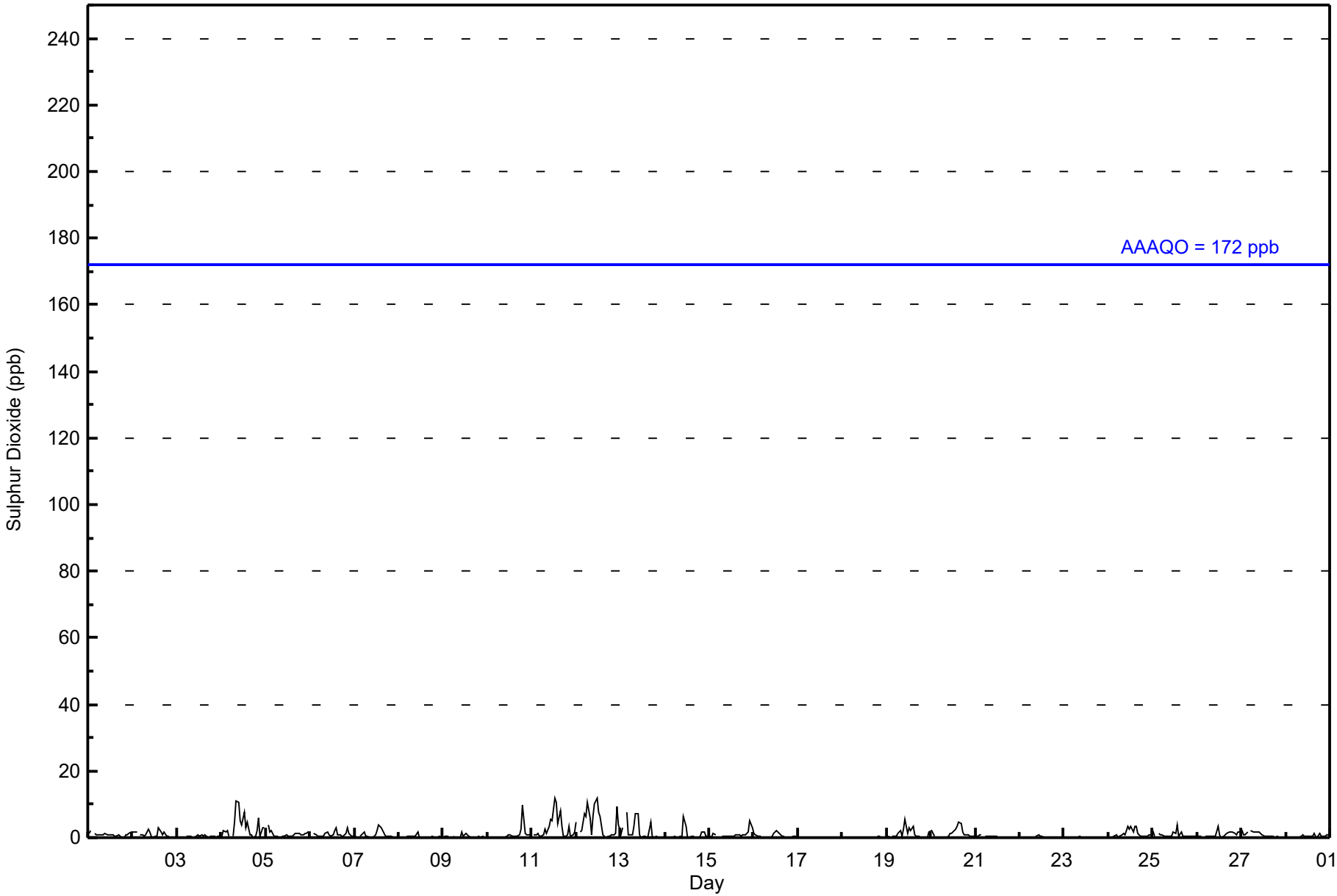
Z - zerospan C - Calibration
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb

Wood Buffalo Environmental Association

Hourly Averages

Sulphur Dioxide (SO_2) - ppb

Blackgold - February 2026



Sulphur Dioxide (SO_2) - ppb

Blackgold - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 10	637	99.53	99.53
11 - 20	3	0.47	100.00
21 - 60	0	0.00	100.00
61 - 110	0	0.00	100.00
111 - 172	0	0.00	100.00
> 172	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Sulphur Dioxide (SO_2) - ppb

Blackgold - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 10	46	43	69	27	19	21	16	17	28	42	94	55	64	24	41	30	636
11 - 20	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	3
21 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 - 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	46	43	69	27	19	21	16	17	28	42	95	57	64	24	41	30	639

Total Number of Valid Hours: 639

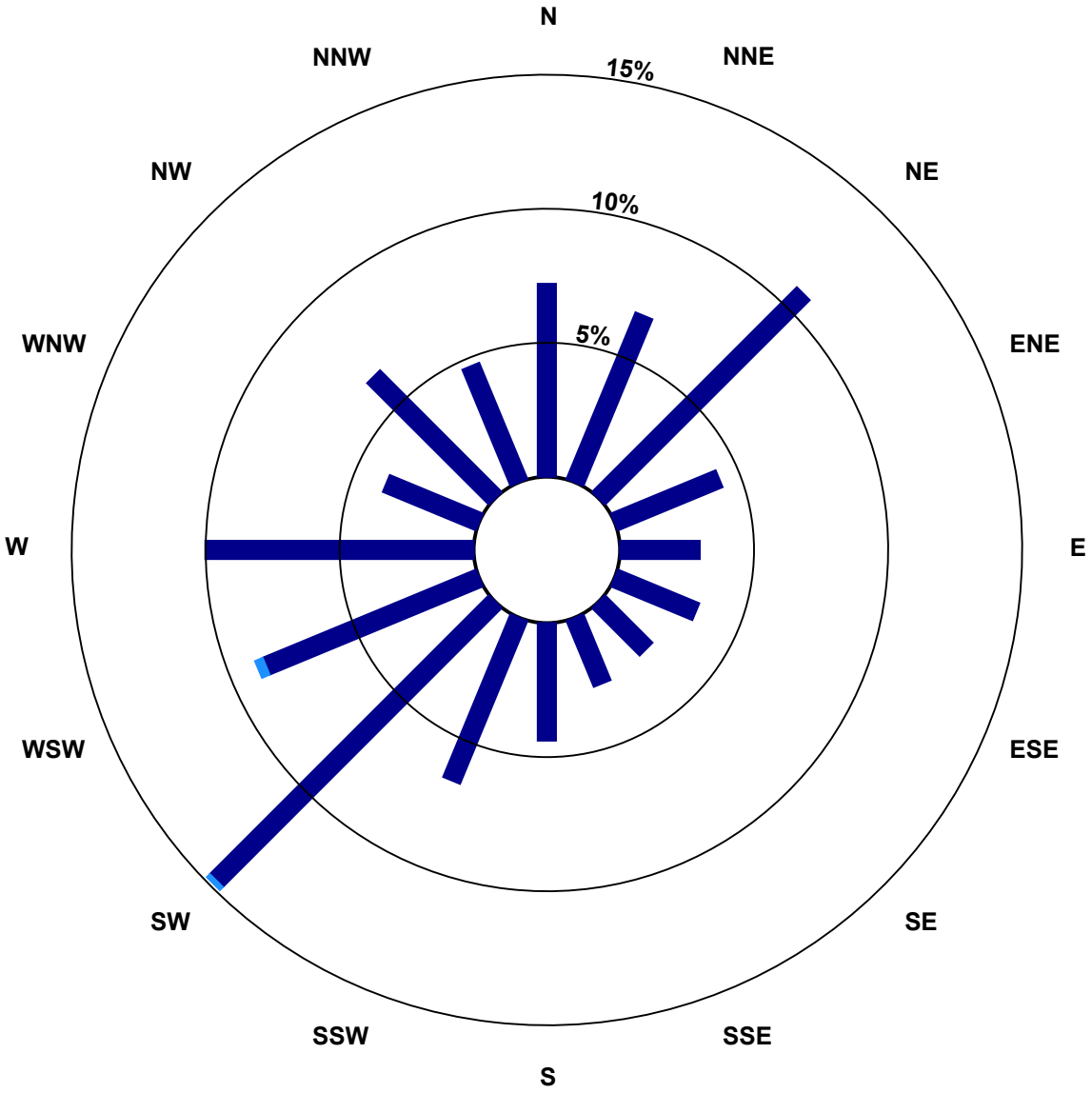
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Sulphur Dioxide (SO_2) - ppb

Blackgold



Classes (ppb)

0 - 10

11 - 20

21 - 60

61 - 110

111 - 172

> 172

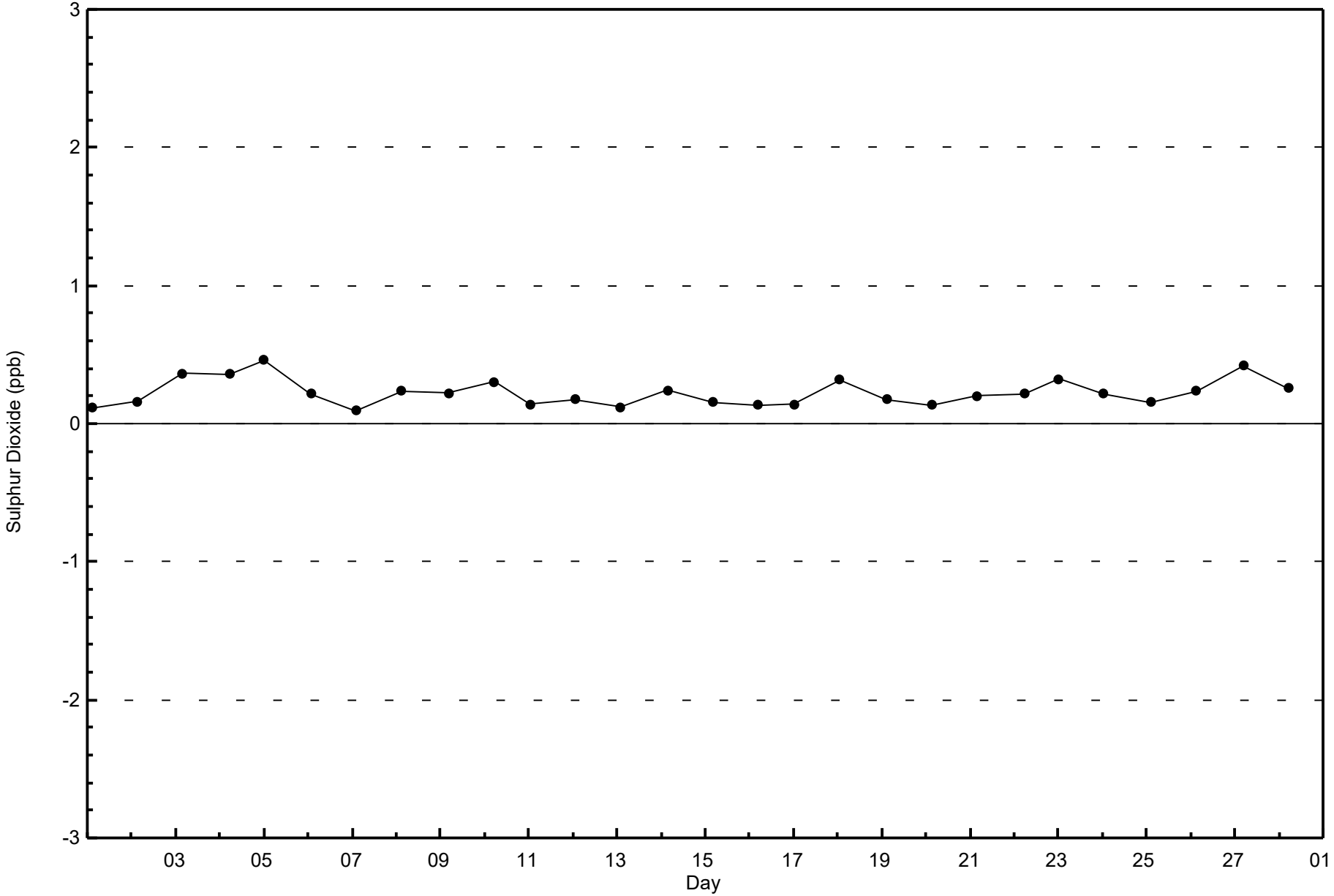
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Sulphur Dioxide (SO_2) - ppb

Blackgold - February 2026

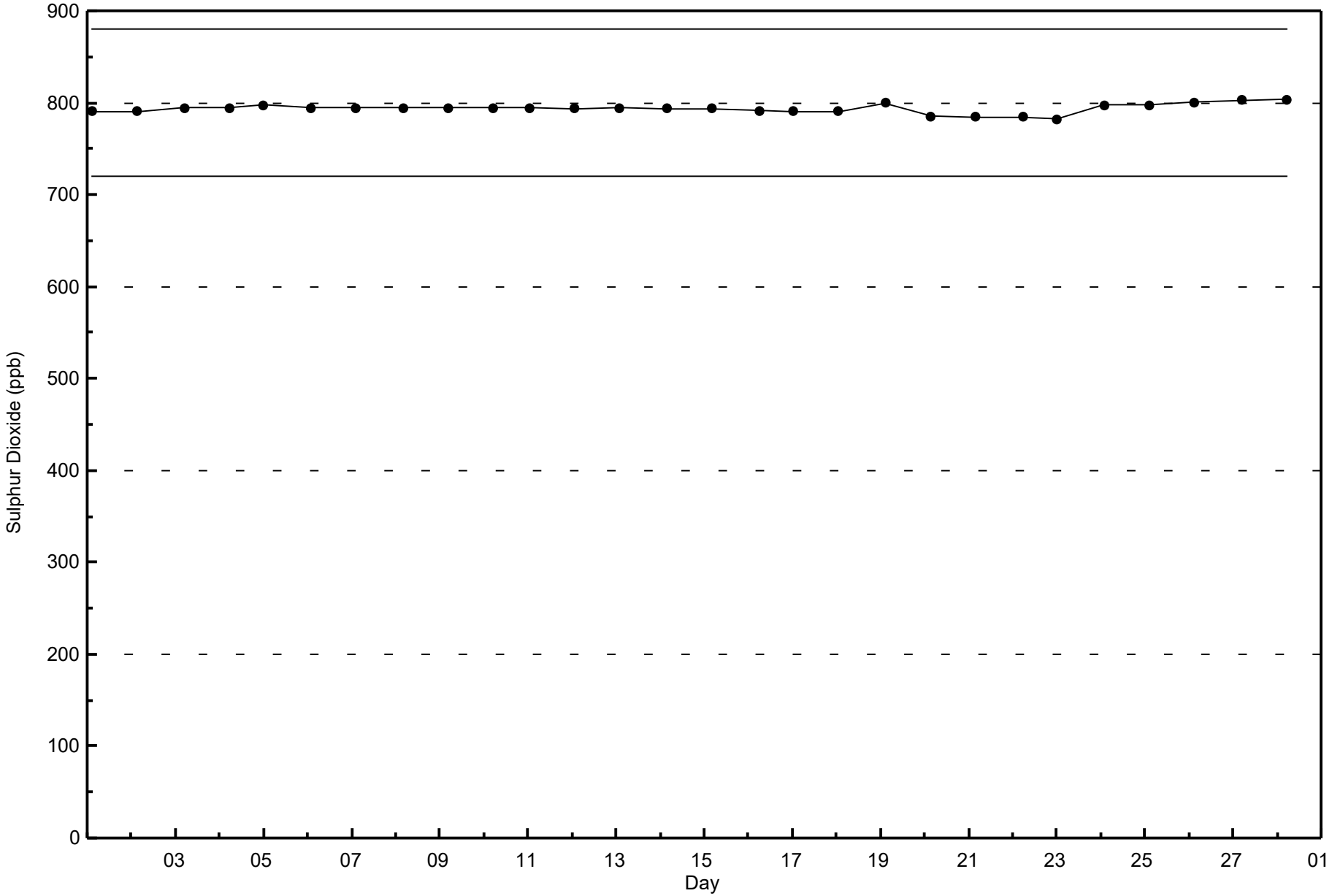


Wood Buffalo Environmental Association

Span Responses

Sulphur Dioxide (SO_2) - ppb

Blackgold - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Hydrogen Sulphide (H_2S) - ppb

Blackgold - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 0.7 ppb on Feb 14 20:00

Maximum Daily Average: 0.2 ppb on Feb 14

Minimum Value: 0.0 ppb on Feb 5 06:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 0.1 ppb at hour 8

Minimum Diurnal Average: 0.1 ppb at hour 1

Monthly Average: 0.10 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.1 P_{90} = 0.2 P_{99} = 0.3

Hours in Service:	672
Hours of Data:	639
Hours of Missing Data:	33
Hours of Calibration:	33
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	0.2	0.3	0.2	Z	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3
2-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3
3-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2
4-Feb	Z	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2
5-Feb	0.1	Z	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1
6-Feb	0.0	0.0	Z	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2
7-Feb	0.1	0.1	0.2	Z	0.2	0.2	0.1	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.4
8-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
9-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2
10-Feb	Z	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.3
11-Feb	0.1	Z	0.1	0.2	0.2	0.0	0.1	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
12-Feb	0.1	0.0	Z	0.1	0.2	0.1	0.2	0.3	0.1	0.3	0.3	0.3	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.3
13-Feb	0.1	0.1	0.2	Z	0.2	0.2	0.2	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.3
14-Feb	0.1	0.1	0.1	0.1	Z	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.6	0.7	0.2	0.3	0.3	0.2	0.2	0.7
15-Feb	0.2	0.1	0.2	0.2	0.2	Z	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
16-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
17-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Feb	0.0	0.0	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1
19-Feb	0.1	0.1	0.1	Z	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
20-Feb	0.0	0.0	0.0	0.0	Z	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.2
21-Feb	0.0	0.0	0.1	0.2	0.2	Z	0.3	0.2	0.2	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	0.1	0.1	0.3
22-Feb	Z	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1
23-Feb	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1
24-Feb	0.1	0.1	Z	0.2	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.3
25-Feb	0.1	0.0	0.0	Z	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
26-Feb	0.1	0.1	0.2	0.2	Z	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3
27-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.2	0.1	0.1	0.1	C	C	C	C	C	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
28-Feb	Z	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.2
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Diurnal Average	
	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.6	0.7	0.2	0.3	0.3	0.2	Diurnal Maximum	

Z - zerospan C - Calibration

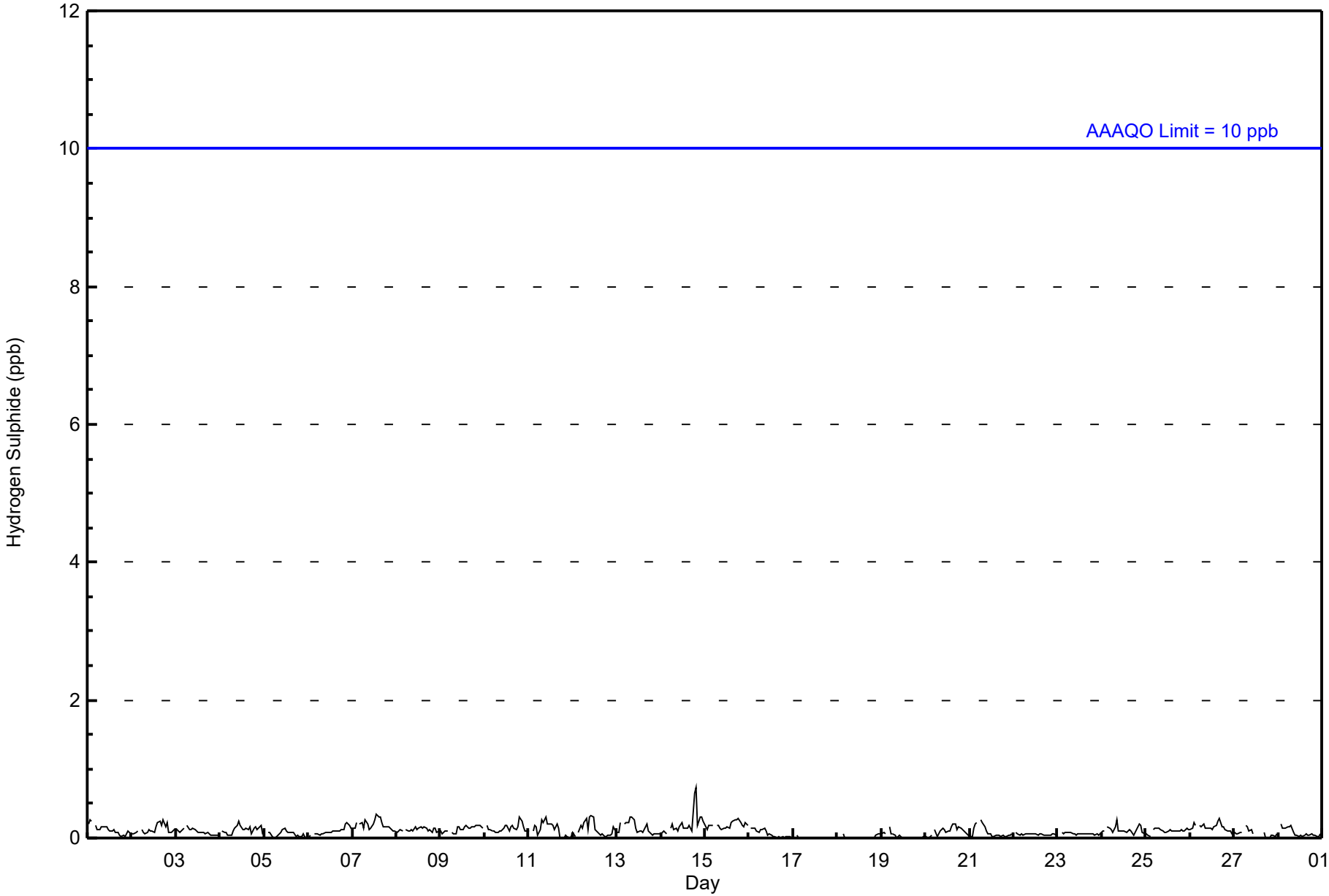
Alberta Ambient Air Quality Objective (AAAQO): 1-hour 10 ppb 24-hr 3 ppb

Wood Buffalo Environmental Association

Hourly Averages

Hydrogen Sulphide (H_2S) - ppb

Blackgold - February 2026



Hydrogen Sulphide (H_2S) - ppb

Blackgold - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 2	639	100.00	100.00
3 - 4	0	0.00	100.00
5 - 7	0	0.00	100.00
8 - 11	0	0.00	100.00
> 11	0	0.00	100.00

Total Number of Valid Hours: 639

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Hydrogen Sulphide (H_2S) - ppb

Blackgold - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2	43	38	71	26	20	22	17	16	28	43	95	57	64	25	44	29	638
3 - 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 - 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	43	38	71	26	20	22	17	16	28	43	95	57	64	25	44	29	638

Total Number of Valid Hours: 638

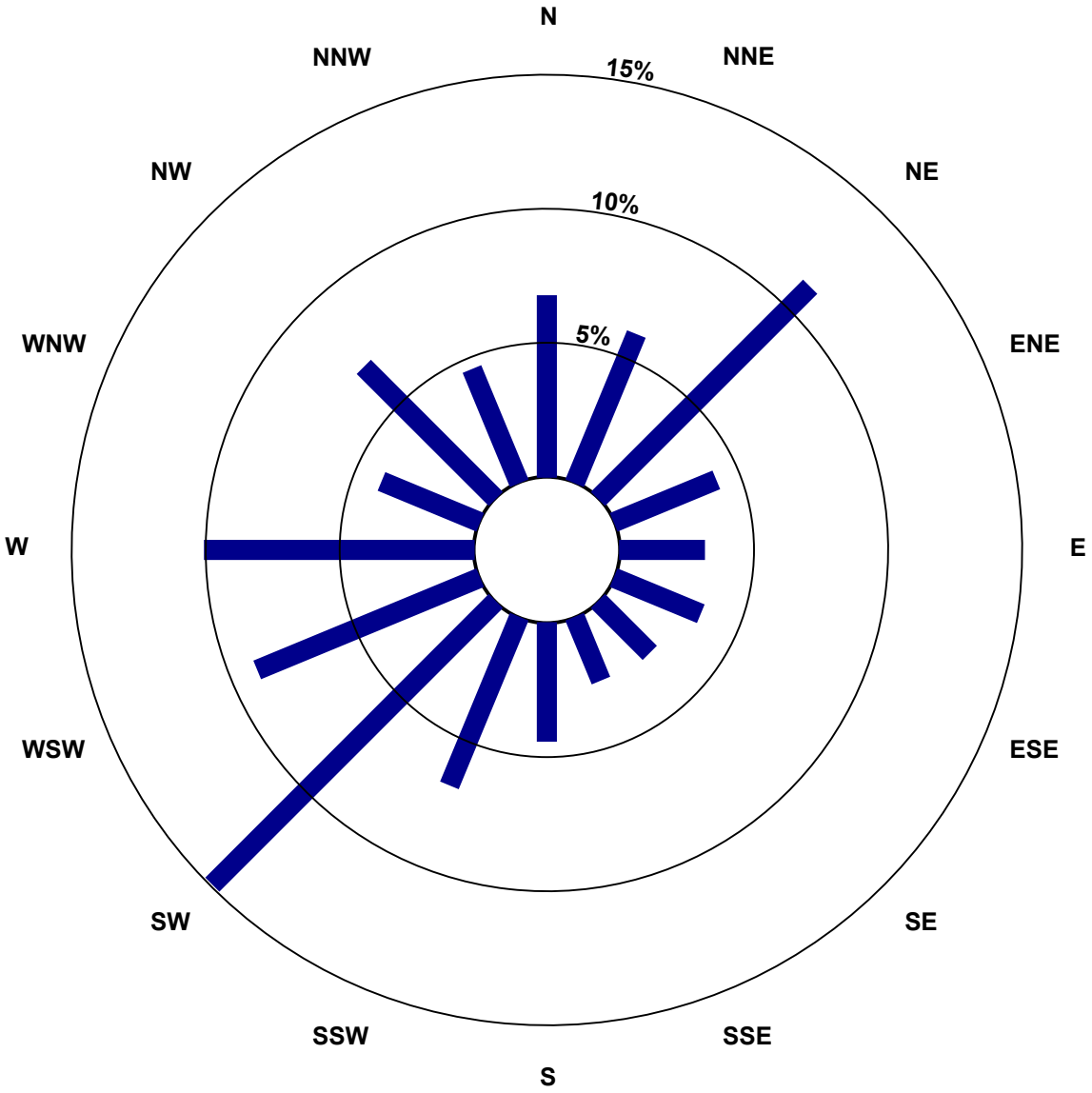
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Hydrogen Sulphide (H_2S) - ppb

Blackgold



Classes (ppb)

0 - 2

3 - 4

5 - 7

8 - 11

> 11

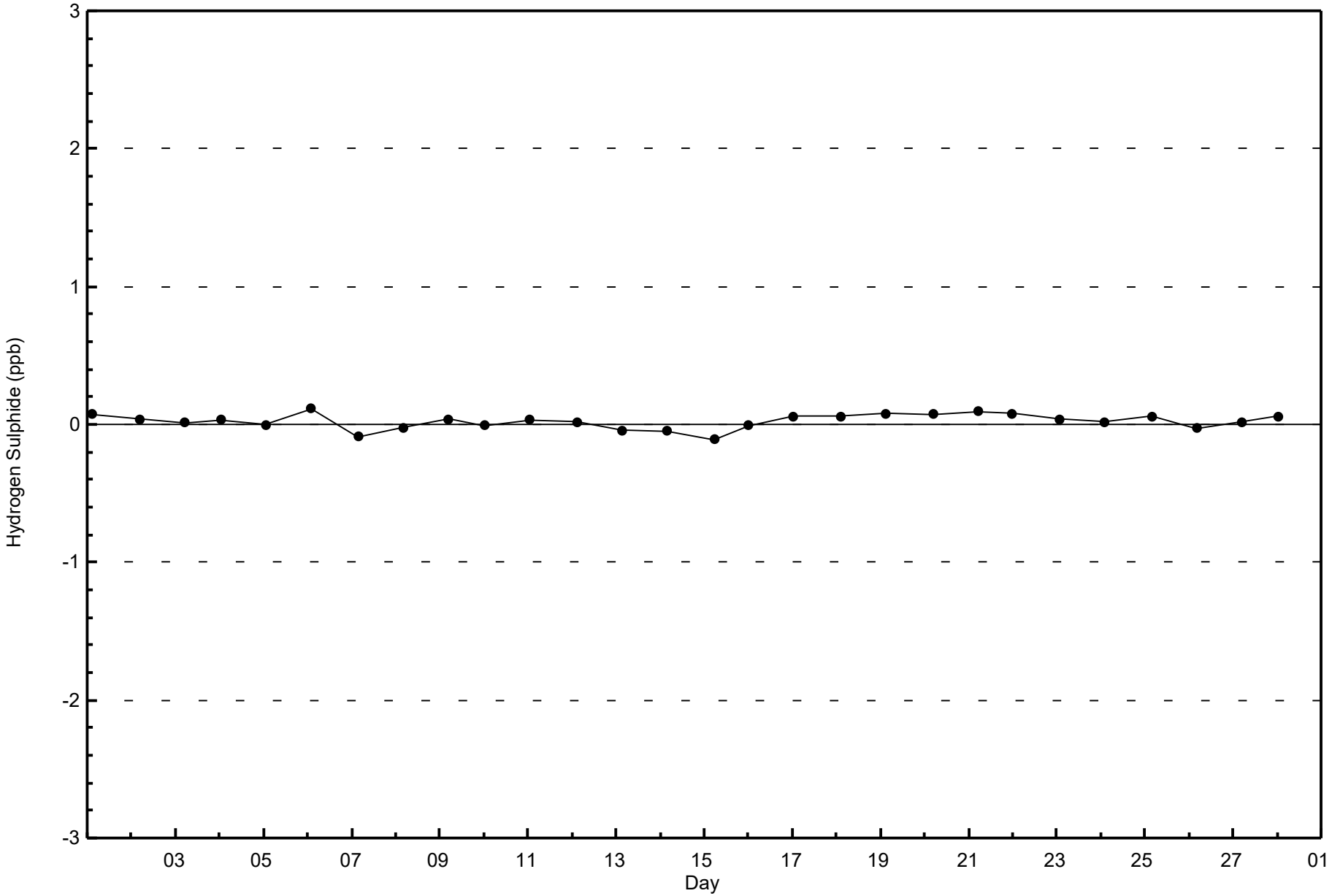
Total Number of Valid Hours: 638

Wood Buffalo Environmental Association

Zero Responses

Hydrogen Sulphide (H_2S) - ppb

Blackgold - February 2026

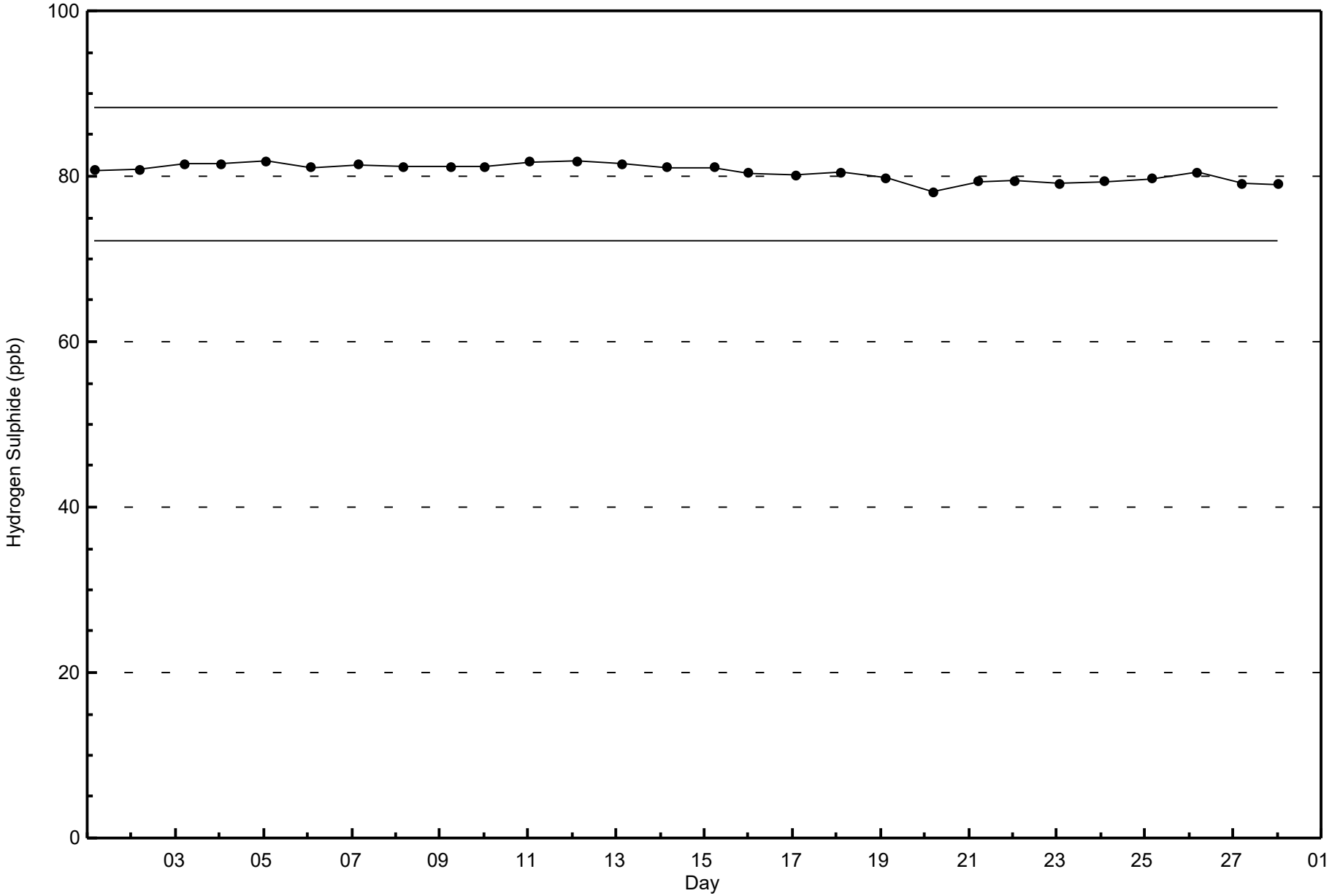


Wood Buffalo Environmental Association

Span Responses

Hydrogen Sulphide (H_2S) - ppb

Blackgold - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Total Hydrocarbon (THC) - ppm

Blackgold - February 2026

Maximum Value: 2.7 ppm on Feb 28 08:00

Maximum Daily Average: 2.5 ppm on Feb 20

Minimum Value: 2.2 ppm on Feb 26 13:00

Minimum Daily Average: 2.3 ppm on Feb 26

Maximum Diurnal Average: 2.5 ppm at hour 8

Minimum Diurnal Average: 2.4 ppm at hour 18

Monthly Average: 2.42 ppm

Percentiles: P_1 = 2.3 P_{10} = 2.3 Q_1 = 2.4 Median = 2.4 Q_3 = 2.5 P_{90} = 2.5 P_{99} = 2.6

Hours in Service:	672
Hours of Data:	640
Hours of Missing Data:	32
Hours of Calibration:	32
Percent Operational Time:	100.0

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	2.5	2.5	Z	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.5
2-Feb	2.4	2.4	2.4	Z	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.5	2.5	2.5	2.4	2.5
3-Feb	2.5	2.4	2.4	2.4	Z	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5
4-Feb	2.4	2.4	2.4	2.4	2.4	Z	2.4	2.4	2.4	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.4	2.3	2.4	2.5
5-Feb	Z	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5
6-Feb	2.4	Z	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.5	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.5
7-Feb	2.4	2.4	Z	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5
8-Feb	2.4	2.4	2.4	Z	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.4	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.5
9-Feb	2.4	2.4	2.4	2.4	Z	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.5
10-Feb	2.4	2.4	2.4	2.4	2.4	Z	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.5	2.7	2.6	2.5	2.5	2.5	2.7
11-Feb	Z	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.5
12-Feb	2.4	Z	2.3	2.3	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.5
13-Feb	2.4	2.4	Z	2.4	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.5
14-Feb	2.3	2.4	2.4	Z	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.5	2.5	2.4	2.4	2.5
15-Feb	2.3	2.3	2.4	2.4	Z	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
16-Feb	2.4	2.4	2.5	2.5	2.5	Z	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5
17-Feb	Z	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.4	2.5
18-Feb	2.5	Z	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
19-Feb	2.6	2.6	Z	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.6
20-Feb	2.5	2.5	2.5	Z	2.5	2.5	2.5	2.5	2.6	2.6	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6
21-Feb	2.5	2.5	2.5	2.5	Z	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6
22-Feb	2.5	2.5	2.5	2.5	2.5	Z	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5
23-Feb	Z	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	C	C	C	C	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4
24-Feb	2.4	Z	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.5	2.5	2.4	2.3	2.4	2.5
25-Feb	2.3	2.3	Z	2.3	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.3	2.4	2.4	2.3	2.4	2.4
26-Feb	2.3	2.3	2.3	Z	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.3	2.4
27-Feb	2.4	2.4	2.4	2.4	Z	2.4	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.5
28-Feb	2.5	2.5	2.5	2.6	2.6	Z	2.7	2.7	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.7
	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	Diurnal Average	
	2.6	2.6	2.5	2.6	2.6	2.6	2.7	2.7	2.6	2.6	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.7	2.6	2.5	2.5	Diurnal Maximum	

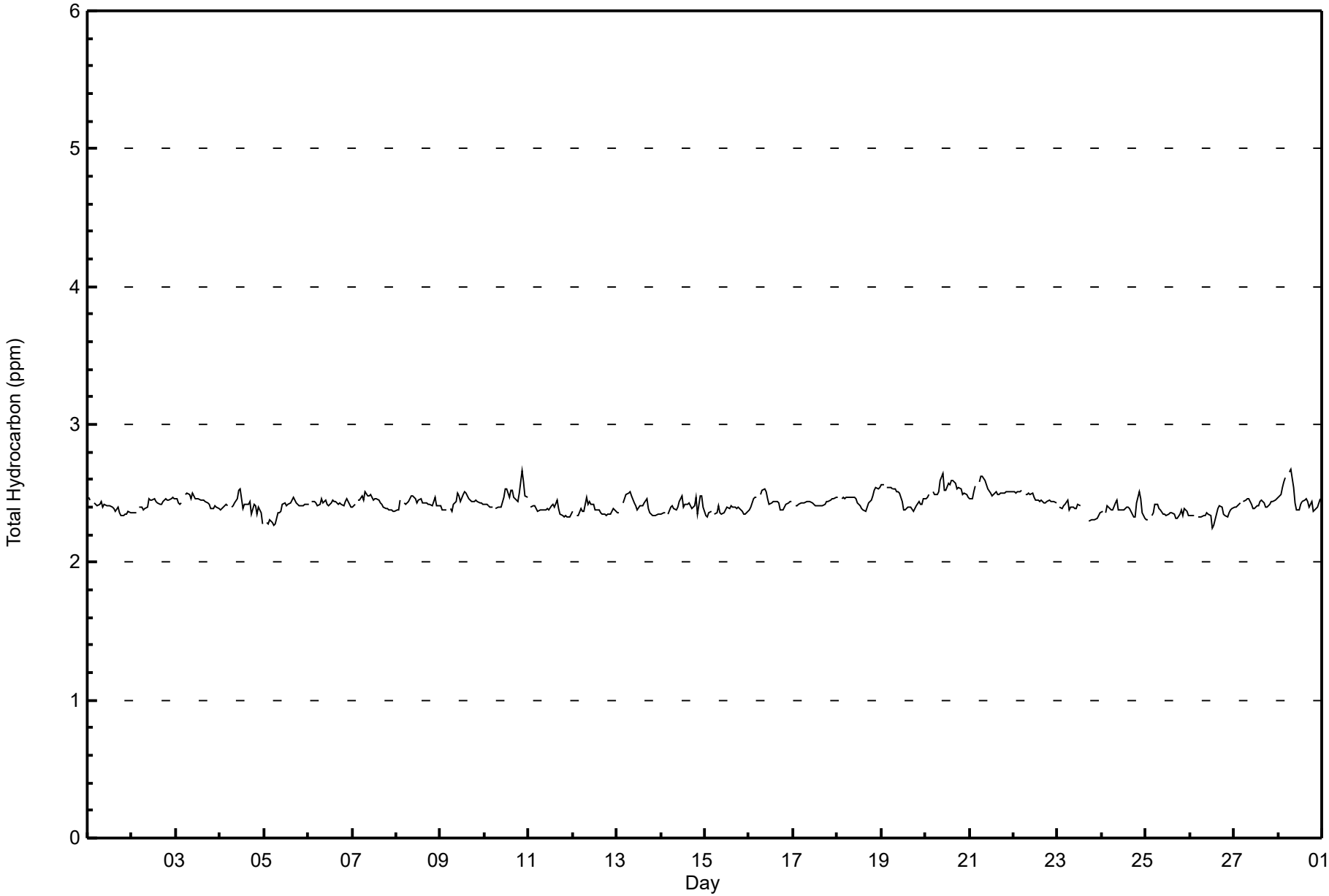
Z - zerospan C - Calibration

Wood Buffalo Environmental Association

Hourly Averages

Total Hydrocarbon (THC) - ppm

Blackgold - February 2026



Wood Buffalo Environmental Association

Cumulative Frequency Distribution

Total Hydrocarbon (THC) - ppm

Blackgold - February 2026

Concentration Ranges (ppm)	Number of Hours	%	Cumulative %
0 - 2.0	0	0.00	0.00
2.1 - 3.0	640	100.00	100.00
3.1 - 10.0	0	0.00	100.00
> 10.0	0	0.00	100.00

Total Number of Valid Hours: 640

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Total Hydrocarbon (THC) - ppm

Blackgold - February 2026

Concentration Ranges (ppm)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.1 - 3.0	46	43	69	27	19	21	16	17	28	42	95	57	64	24	41	30	639
3.1 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	46	43	69	27	19	21	16	17	28	42	95	57	64	24	41	30	639

Total Number of Valid Hours: 639

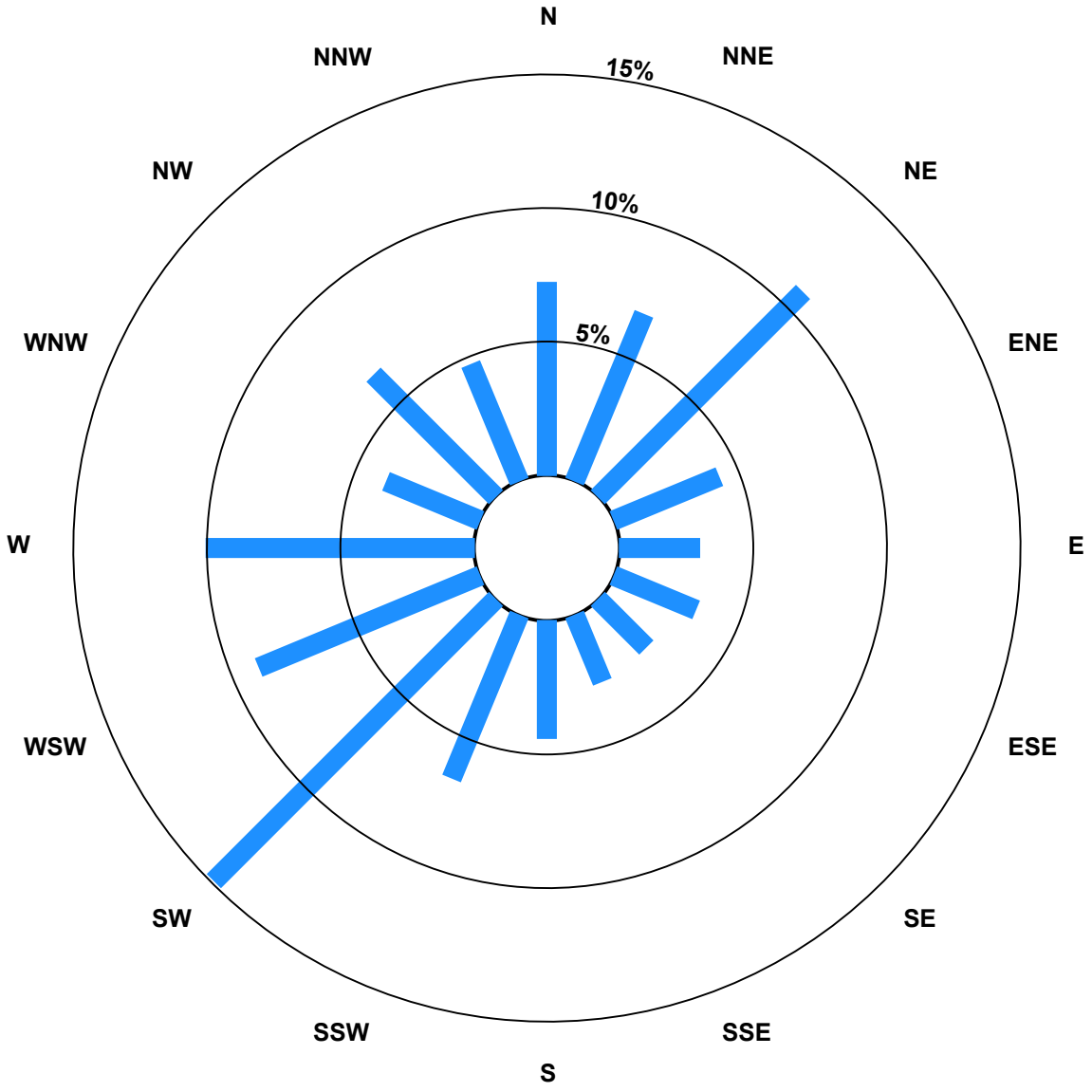
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Total Hydrocarbon (THC) - ppm

Blackgold



Classes (ppm)

0 - 2.0

2.1 - 3.0

3.1 - 10.0

> 10.0

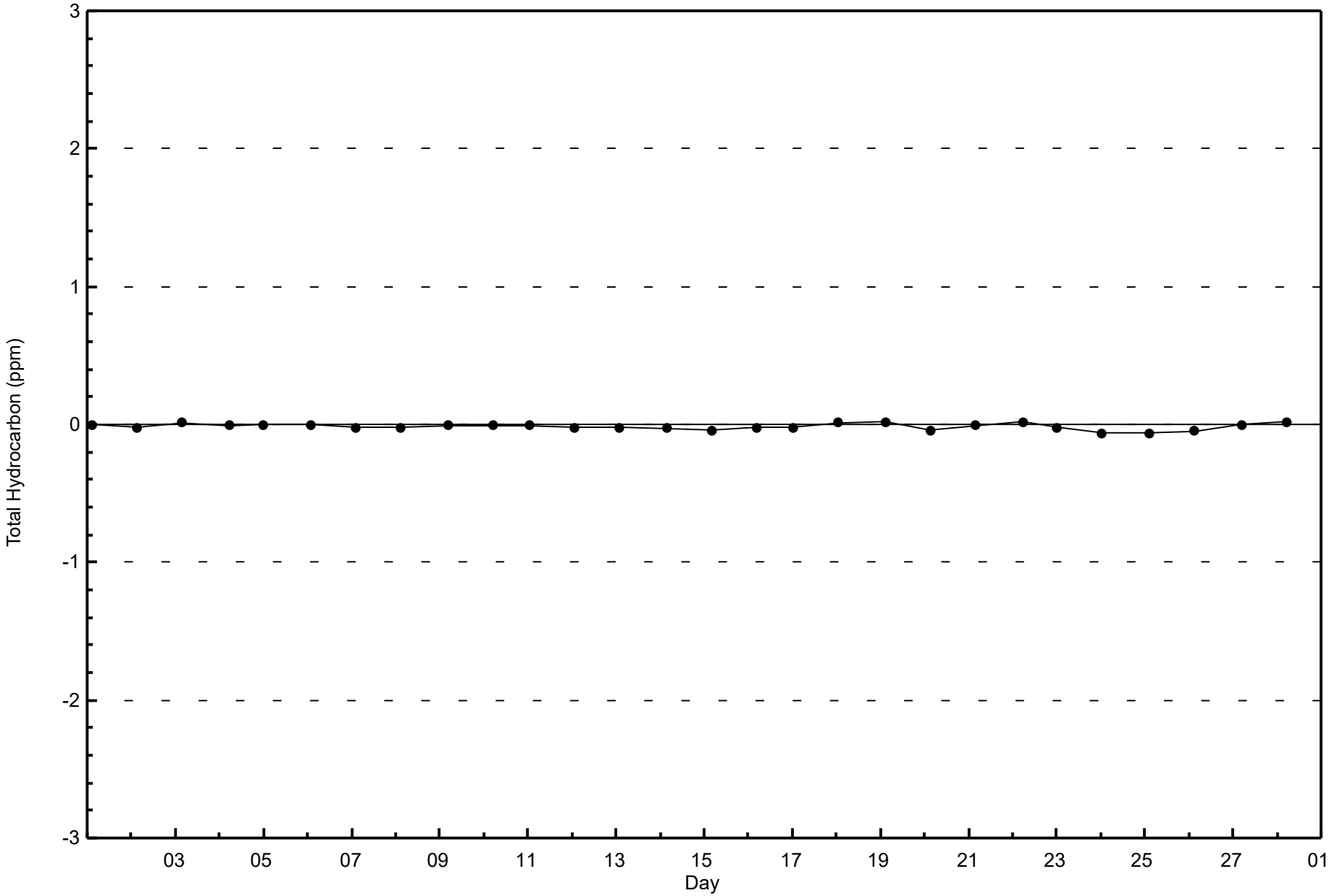
Total Number of Valid Hours: 639

Wood Buffalo Environmental Association

Zero Responses

Total Hydrocarbon (THC) - ppm

Blackgold - February 2026

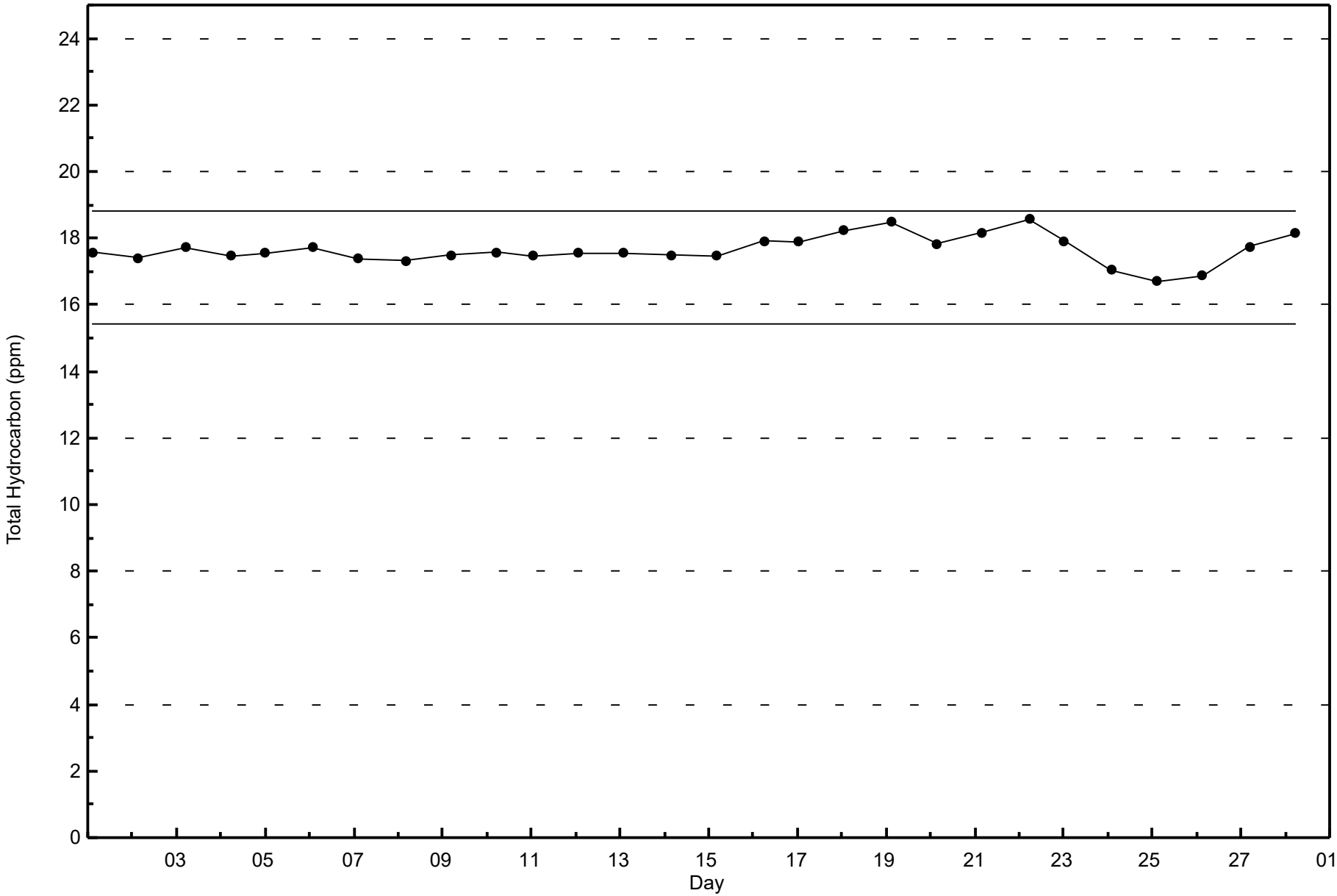


Wood Buffalo Environmental Association

Span Responses

Total Hydrocarbon (THC) - ppm

Blackgold - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxide (NO) - ppb

Blackgold - February 2026

Maximum Value: 13.4 ppb on Feb 12 11:00

Maximum Daily Average: 2.1 ppb on Feb 12

Minimum Value: 0.0 ppb on Feb 1 02:00

Minimum Daily Average: 0.0 ppb on Feb 17

Maximum Diurnal Average: 1.8 ppb at hour 11

Minimum Diurnal Average: 0.1 ppb at hour 6

Monthly Average: 0.59 ppb

Percentiles: P_1 = 0.0 P_{10} = 0.0 Q_1 = 0.0 Median = 0.1 Q_3 = 0.6 P_{90} = 1.7 P_{99} = 4.4

Hours in Service:	672
Hours of Data:	609
Hours of Missing Data:	63
Hours of Calibration:	32
Percent Operational Time:	95.4

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.5	0.7	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
2-Feb	0.0	Z	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.6	0.4	0.4	0.7	0.6	1.2	0.8	0.3	0.4	0.0	0.3	0.0	0.0	0.2	0.1	0.3	1.2
3-Feb	0.0	0.1	Z	0.1	0.3	0.1	0.1	0.1	0.7	2.2	0.4	0.3	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	2.2
4-Feb	0.0	0.1	0.1	Z	0.0	0.1	0.1	1.6	4.0	3.6	1.9	1.5	3.0	1.2	1.5	0.6	0.3	0.1	0.1	0.2	0.6	0.2	0.3	0.5	0.9	4.0
5-Feb	0.4	0.8	0.2	0.1	Z	0.1	0.1	0.1	0.2	0.3	0.5	0.6	0.4	0.3	0.4	0.5	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.8
6-Feb	0.1	0.1	0.1	0.1	0.1	Z	0.2	0.1	0.2	0.4	0.4	0.8	1.1	1.1	1.0	0.6	0.3	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.3	1.1
7-Feb	Z	0.0	0.5	0.2	0.1	0.4	0.0	1.5	1.2	0.6	0.8	1.1	1.8	2.6	1.7	0.8	0.3	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.6	2.6
8-Feb	0.0	Z	0.2	0.0	0.0	0.0	0.3	0.3	0.4	1.0	2.7	0.7	0.7	0.9	0.6	1.1	0.2	0.0	0.0	0.1	0.1	0.4	0.0	0.2	0.4	2.7
9-Feb	0.1	0.1	Z	0.0	0.0	0.0	0.0	0.0	0.5	1.3	1.6	1.3	2.2	3.0	2.0	0.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.0
10-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.1	0.1	0.2	0.9	2.5	3.4	3.3	1.3	0.8	0.8	0.3	0.2	0.5	0.2	0.1	0.1	0.0	0.1	0.6	3.4
11-Feb	0.1	0.1	0.0	0.3	Z	0.1	0.2	0.8	0.4	1.6	2.1	2.2	4.3	4.0	1.3	2.0	0.6	0.1	0.1	0.2	0.8	0.1	0.2	0.2	1.0	4.3
12-Feb	0.9	0.3	0.3	0.4	0.6	Z	1.9	0.8	0.5	6.8	13.4	11.8	3.7	3.9	0.4	0.2	0.1	0.1	0.0	0.0	0.1	0.0	2.3	0.8	2.1	13.4
13-Feb	Z	0.6	2.0	0.8	0.1	0.2	0.3	0.4	1.0	1.4	0.4	0.2	0.2	0.7	0.4	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.0
14-Feb	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.6	1.5	0.2	1.2	0.3	0.9	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.1	0.3	1.6
15-Feb	0.0	0.1	Z	0.2	0.1	0.1	0.5	0.5	1.0	0.2	0.4	0.6	0.7	0.5	0.8	0.7	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.3	1.0
16-Feb	0.0	0.0	0.0	Z	0.0	0.0	0.7	0.2	1.7	2.5	1.5	3.6	3.1	2.1	1.2	0.5	0.3	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.8	3.6
17-Feb	0.0	0.0	0.0	0.0	Z	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18-Feb	0.0	0.0	0.0	0.0	0.0	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	0.0
19-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	C	C	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	--	0.0
20-Feb	0.1	Z	0.1	0.1	0.1	0.0	0.1	1.6	2.5	3.0	3.5	4.4	4.0	3.2	3.3	3.0	2.1	0.8	0.5	0.3	0.1	0.1	0.1	0.1	1.4	4.4
21-Feb	0.1	0.1	Z	0.1	0.1	0.0	0.5	0.2	1.2	1.5	1.3	0.8	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.0	0.1	0.1	0.0	0.1	0.3	1.5
22-Feb	0.1	0.0	0.0	Z	0.0	0.1	0.0	0.1	0.2	0.3	0.6	0.4	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.6
23-Feb	0.1	0.0	0.0	0.0	Z	0.0	0.0	0.5	0.7	0.4	1.2	0.3	0.3	2.5	0.6	0.2	0.2	0.3	0.1	0.1	0.0	0.0	0.1	0.0	0.3	2.5
24-Feb	0.3	0.4	0.2	0.2	0.2	Z	1.5	4.5	7.9	2.0	3.6	3.0	3.4	3.1	4.4	1.8	0.5	0.1	0.0	0.1	0.1	0.1	0.1	0.1	1.6	7.9
25-Feb	Z	0.1	0.1	0.1	0.1	0.1	0.5	2.5	2.4	3.1	1.3	1.0	0.6	1.2	0.4	0.5	0.4	0.2	0.0	0.1	0.0	0.1	0.0	0.5	0.7	3.1
26-Feb	0.1	Z	0.1	0.1	0.1	0.1	0.2	1.8	1.2	0.6	3.9	2.3	1.0	1.7	1.1	2.1	1.7	1.7	0.1	0.1	0.0	0.0	0.0	0.1	0.9	3.9
27-Feb	0.1	0.0	Z	0.1	0.1	0.1	1.6	2.7	1.2	1.4	0.8	0.7	0.5	0.4	0.4	0.5	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.5	2.7
28-Feb	0.0	0.0	0.0	Z	0.1	0.1	0.0	1.0	1.8	1.4	0.7	0.6	0.6	0.4	0.4	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	1.8
	0.1	0.1	0.2	0.1	0.1	0.1	0.3	0.8	1.2	1.5	1.8	1.7	1.4	1.4	1.0	0.8	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	Diurnal Average	
	0.9	0.8	2.0	0.8	0.6	0.4	1.9	4.5	7.9	6.8	13.4	11.8	4.3	4.0	4.4	3.0	2.1	1.7	0.5	0.3	0.8	0.4	2.3	0.8	Diurnal Maximum	

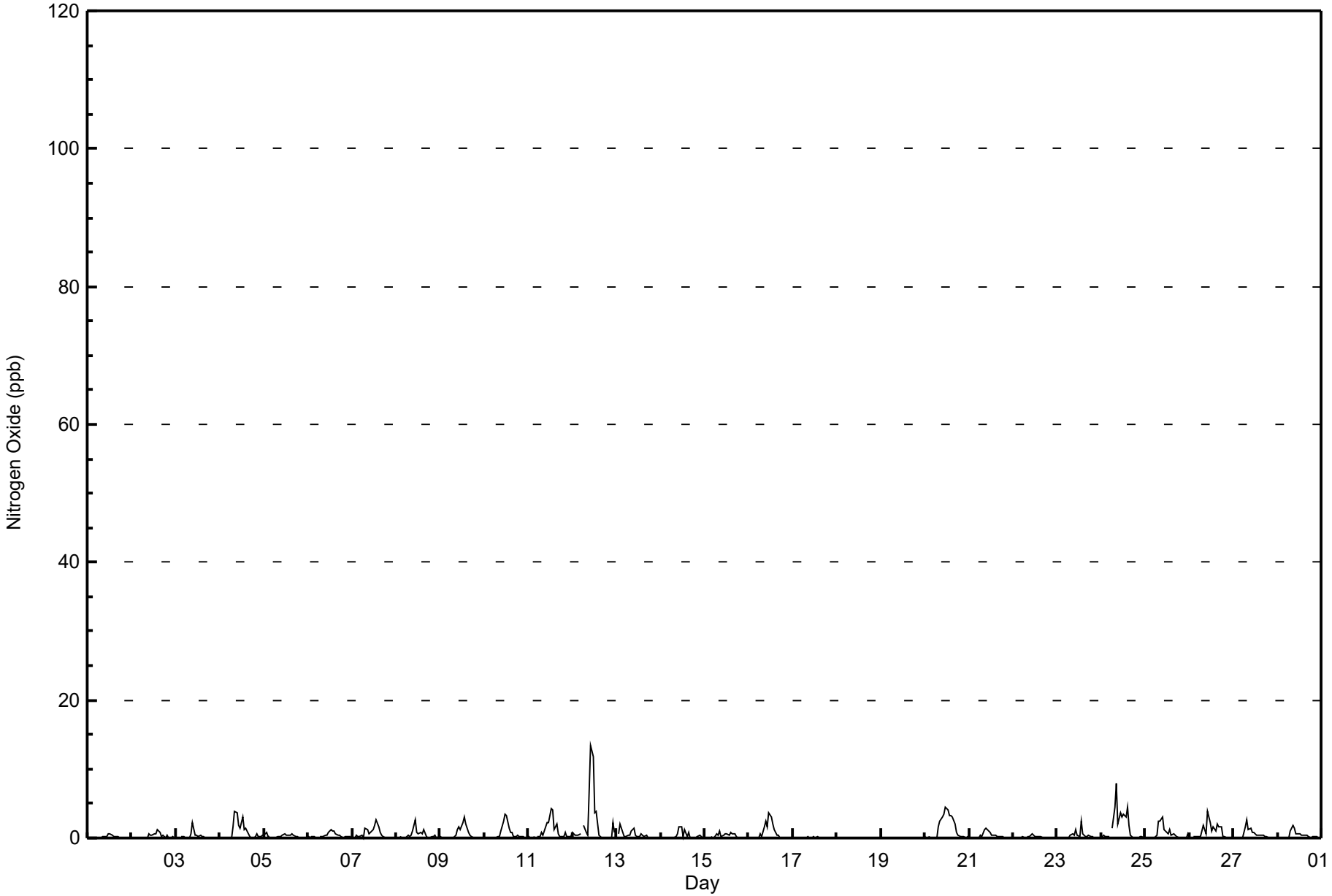
Z - zerospan C - Calibration UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxide (NO) - ppb

Blackgold - February 2026



Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	609	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 609

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxide (NO) - ppb

Blackgold - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	36	42	68	27	21	22	17	17	27	43	83	51	64	24	39	27	608
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	36	42	68	27	21	22	17	17	27	43	83	51	64	24	39	27	608

Total Number of Valid Hours: 608

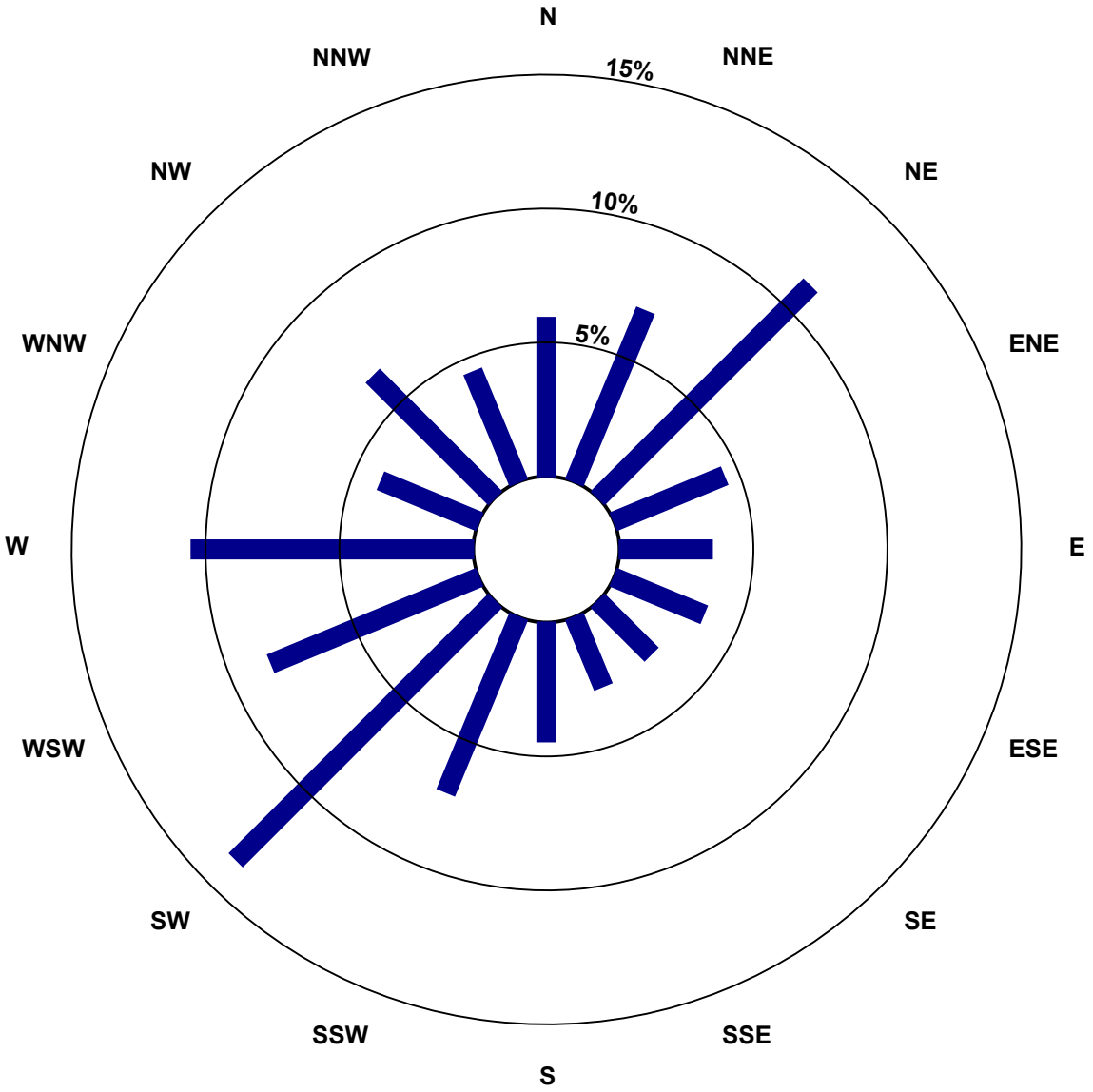
Total Number of Hours: 672

Wood Buffalo Environmental Association

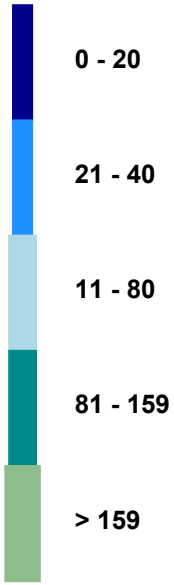
Wind Rose Feb 2026

Nitrogen Oxide (NO) - ppb

Blackgold



Classes (ppb)



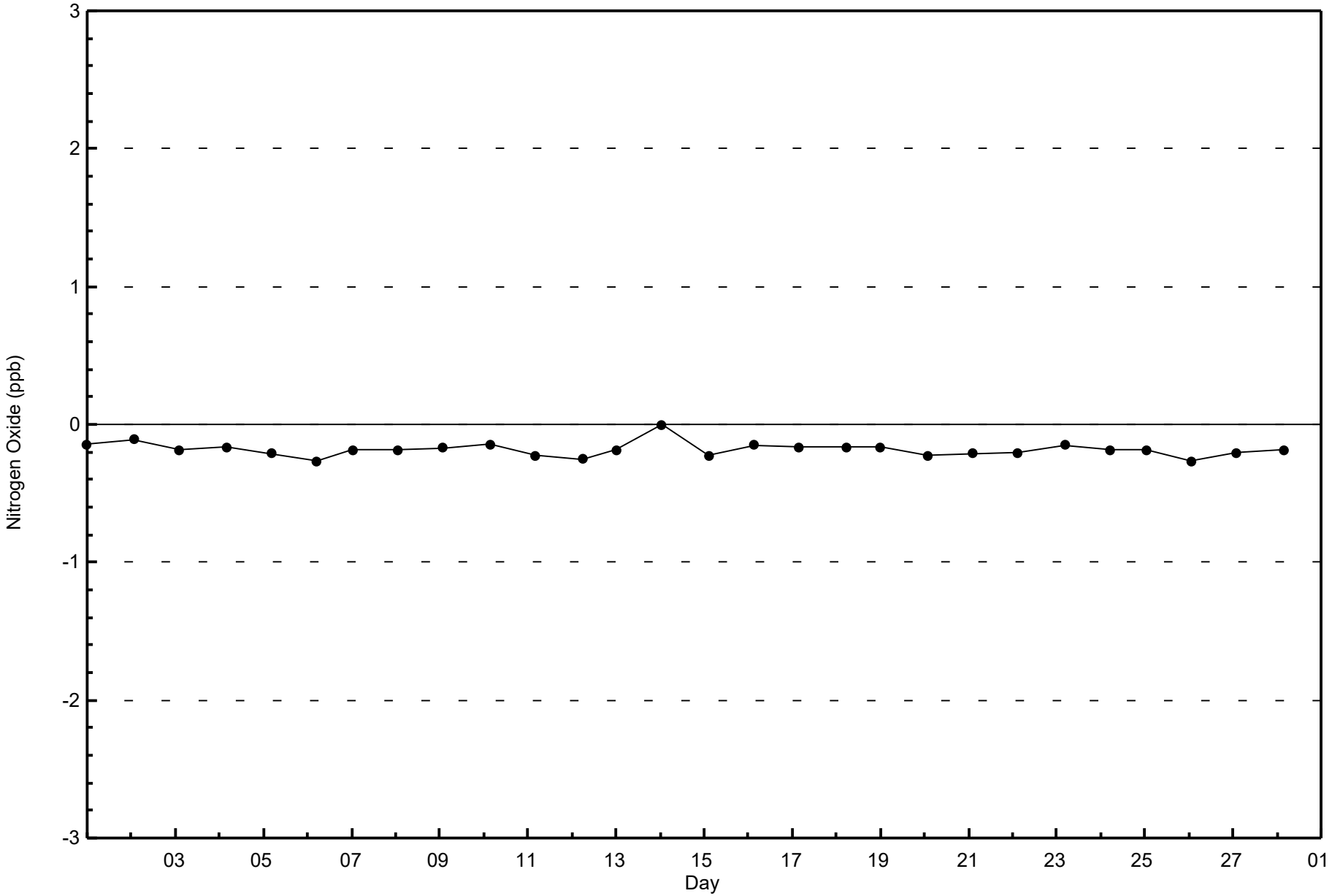
Total Number of Valid Hours: 608

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxide (NO) - ppb

Blackgold - February 2026

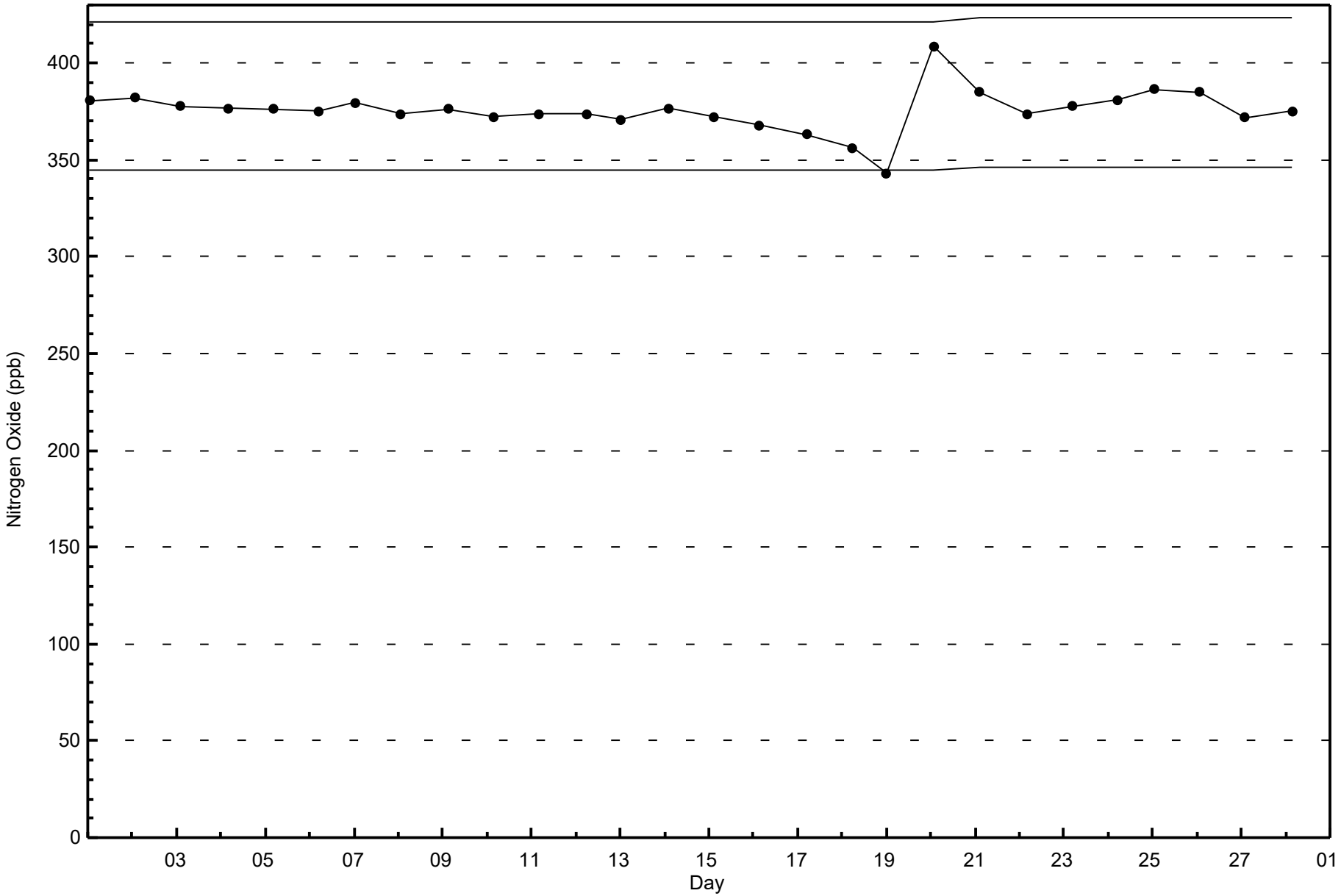


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxide (NO) - ppb

Blackgold - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Dioxide (NO_2) - ppb

Blackgold - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 17.0 ppb on Feb 20 20:00 Maximum Daily Average: 8.0 ppb on Feb 20

Minimum Value: 0.1 ppb on Feb 17 06:00 Minimum Daily Average: 0.3 ppb on Feb 17
Maximum Diurnal Average: 4.2 ppb at hour 8 Minimum Diurnal Average: 2.3 ppb at hour 13
Monthly Average: 2.85 ppb Percentiles: P_1 = 0.2 P_{10} = 0.8 Q_1 = 1.3 Median = 2.4 Q_3 = 3.7 P_{90} = 5.4 P_{99} = 11.8

Hours in Service:	672
Hours of Data:	609
Hours of Missing Data:	63
Hours of Calibration:	32
Percent Operational Time:	95.4

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	4.4	3.9	3.9	2.8	2.7	3.3	2.1	3.8	2.8	2.2	2.9	2.7	2.2	2.2	2.0	3.8	1.9	0.8	0.7	2.1	1.2	1.7	2.0	2.5	4.4
2-Feb	2.2	Z	2.5	2.8	2.0	2.1	2.1	2.5	2.4	2.4	2.0	2.1	2.5	2.5	3.1	2.8	2.5	3.4	3.5	4.7	2.3	2.5	4.4	3.1	2.7	4.7
3-Feb	2.5	2.4	Z	2.1	2.8	1.7	1.8	1.9	2.1	3.2	1.2	1.4	1.0	1.4	1.2	1.1	1.0	0.8	0.6	0.8	1.8	1.8	2.3	2.6	1.7	3.2
4-Feb	2.4	2.8	2.5	Z	2.5	2.7	2.6	5.4	9.0	7.5	4.3	3.1	4.6	2.5	3.3	2.8	2.3	1.4	2.6	2.7	4.2	1.8	2.5	2.6	3.4	9.0
5-Feb	1.6	3.2	1.7	2.1	Z	1.0	1.0	1.9	2.1	1.6	2.1	2.0	1.1	0.8	1.4	2.7	4.0	2.6	2.7	3.4	1.9	2.8	3.2	3.4	2.2	4.0
6-Feb	3.6	3.9	3.8	2.6	2.6	Z	3.1	4.3	4.0	4.0	1.9	1.6	1.9	2.5	3.0	2.6	3.2	4.8	4.2	3.9	4.6	3.8	4.2	4.4	3.4	4.8
7-Feb	Z	2.9	4.9	3.1	2.9	3.0	2.5	6.7	5.3	2.4	2.8	2.7	4.2	6.1	6.2	5.0	3.8	2.4	2.4	1.6	1.3	1.2	1.0	0.9	3.3	6.7
8-Feb	1.5	Z	3.4	3.3	3.1	3.2	3.6	3.9	4.8	3.5	3.9	2.5	2.4	2.6	2.3	3.3	2.4	2.0	1.8	1.8	2.0	2.1	1.6	0.9	2.7	4.8
9-Feb	0.9	1.0	Z	1.2	0.6	1.7	0.8	0.9	2.5	2.5	2.0	1.6	2.3	3.2	3.7	2.7	3.0	3.6	2.9	3.8	3.6	3.3	2.8	2.5	2.3	3.8
10-Feb	2.0	1.8	1.7	Z	1.6	1.2	1.2	2.0	1.3	1.8	2.4	2.9	3.6	3.6	4.2	3.8	2.8	4.3	6.4	9.3	7.9	7.2	5.4	5.1	3.6	9.3
11-Feb	5.6	4.1	4.4	3.7	Z	2.7	2.7	4.1	2.8	4.0	4.6	4.0	6.1	6.1	3.0	4.6	2.7	0.8	1.1	1.7	3.5	0.9	1.4	2.1	3.3	6.1
12-Feb	4.4	2.4	2.0	2.1	4.5	Z	6.8	5.9	2.8	9.5	12.1	13.0	5.1	5.0	0.9	1.0	1.5	0.9	1.1	1.5	1.8	2.8	8.4	5.0	4.4	13.0
13-Feb	Z	3.6	8.2	5.4	2.0	2.4	3.1	4.3	5.1	4.5	1.3	0.6	0.7	1.4	0.8	1.2	3.1	0.8	0.7	0.5	0.3	0.5	0.5	0.4	2.2	8.2
14-Feb	0.6	Z	0.9	0.6	0.6	1.1	2.4	2.6	3.0	2.5	4.2	3.9	0.7	2.6	1.1	2.2	0.4	0.6	0.8	1.6	2.3	4.0	2.2	1.2	1.8	4.2
15-Feb	1.0	0.7	Z	1.3	1.0	0.8	2.4	2.0	2.9	0.9	1.0	1.4	1.8	1.7	3.8	4.4	4.3	4.1	5.2	4.7	4.1	3.6	5.8	5.2	2.8	5.8
16-Feb	4.3	3.7	3.4	Z	3.7	3.3	5.4	3.4	5.5	5.4	2.1	3.2	2.6	2.0	1.4	0.8	1.4	1.3	1.0	1.2	0.8	1.5	1.2	1.2	2.6	5.5
17-Feb	0.9	0.6	0.3	0.2	Z	0.1	0.2	0.1	0.4	0.1	0.1	0.4	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.1	0.1	0.3	0.2	0.2	0.3	0.9
18-Feb	0.2	0.4	0.5	0.6	0.6	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	0.6
19-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	C	C	C	C	C	1.6	1.3	1.4	1.2	1.6	5.4	--	5.4
20-Feb	6.1	Z	4.9	5.0	5.7	4.5	4.1	8.9	7.1	5.0	5.3	5.7	5.9	6.5	7.8	9.2	10.5	11.9	15.2	17.0	14.3	12.2	6.0	4.5	8.0	17.0
21-Feb	2.4	2.3	Z	9.1	9.2	8.7	9.7	6.0	5.4	2.9	2.1	1.4	0.8	0.8	1.1	1.0	1.4	1.3	1.0	1.0	1.1	0.7	0.7	0.9	3.1	9.7
22-Feb	0.8	1.0	0.9	Z	2.0	2.6	2.3	2.4	2.2	1.2	1.5	1.1	0.7	0.7	0.7	0.8	0.5	0.5	0.6	1.0	1.7	1.4	2.0	0.9	1.3	2.6
23-Feb	0.9	2.2	2.1	2.0	Z	4.8	2.1	3.7	2.5	1.1	1.4	0.9	0.9	2.4	1.2	0.8	0.9	1.9	1.7	1.7	1.0	0.9	1.3	1.2	1.7	4.8
24-Feb	2.5	3.0	2.6	1.9	2.6	Z	3.6	5.0	7.0	2.4	3.0	2.7	3.0	2.5	3.8	2.8	1.9	1.2	1.7	2.4	3.2	3.3	2.5	2.0	2.9	7.0
25-Feb	Z	1.9	2.9	4.0	4.2	4.8	6.1	8.9	6.7	5.1	2.4	1.8	1.4	2.2	1.2	1.6	1.2	1.7	1.4	2.2	1.7	1.6	2.7	4.3	3.1	8.9
26-Feb	1.6	Z	2.2	2.2	2.8	2.9	2.1	5.8	2.2	1.7	3.4	4.1	2.3	2.7	2.7	5.6	6.8	7.8	5.1	3.7	2.4	2.4	2.6	2.1	3.4	7.8
27-Feb	2.3	1.4	Z	2.4	2.0	3.1	7.7	7.6	3.4	2.0	1.1	1.0	0.8	0.6	0.7	0.8	1.2	2.2	3.2	3.2	2.8	2.3	2.4	2.8	2.5	7.7
28-Feb	4.3	6.4	8.0	Z	9.1	8.8	8.2	7.5	4.3	2.2	1.2	1.0	0.8	0.8	0.8	1.1	0.9	1.1	1.6	1.4	2.0	2.7	3.3	4.1	3.5	9.1
	2.4	2.6	3.1	2.8	3.1	3.0	3.5	4.2	3.9	3.2	2.8	2.7	2.3	2.5	2.4	2.6	2.6	2.5	2.6	2.9	2.8	2.6	2.7	2.6	Diurnal Average	
	6.1	6.4	8.2	9.1	9.2	8.8	9.7	8.9	9.0	9.5	12.1	13.0	6.1	6.5	7.8	9.2	10.5	11.9	15.2	17.0	14.3	12.2	8.4	5.4	Diurnal Maximum	

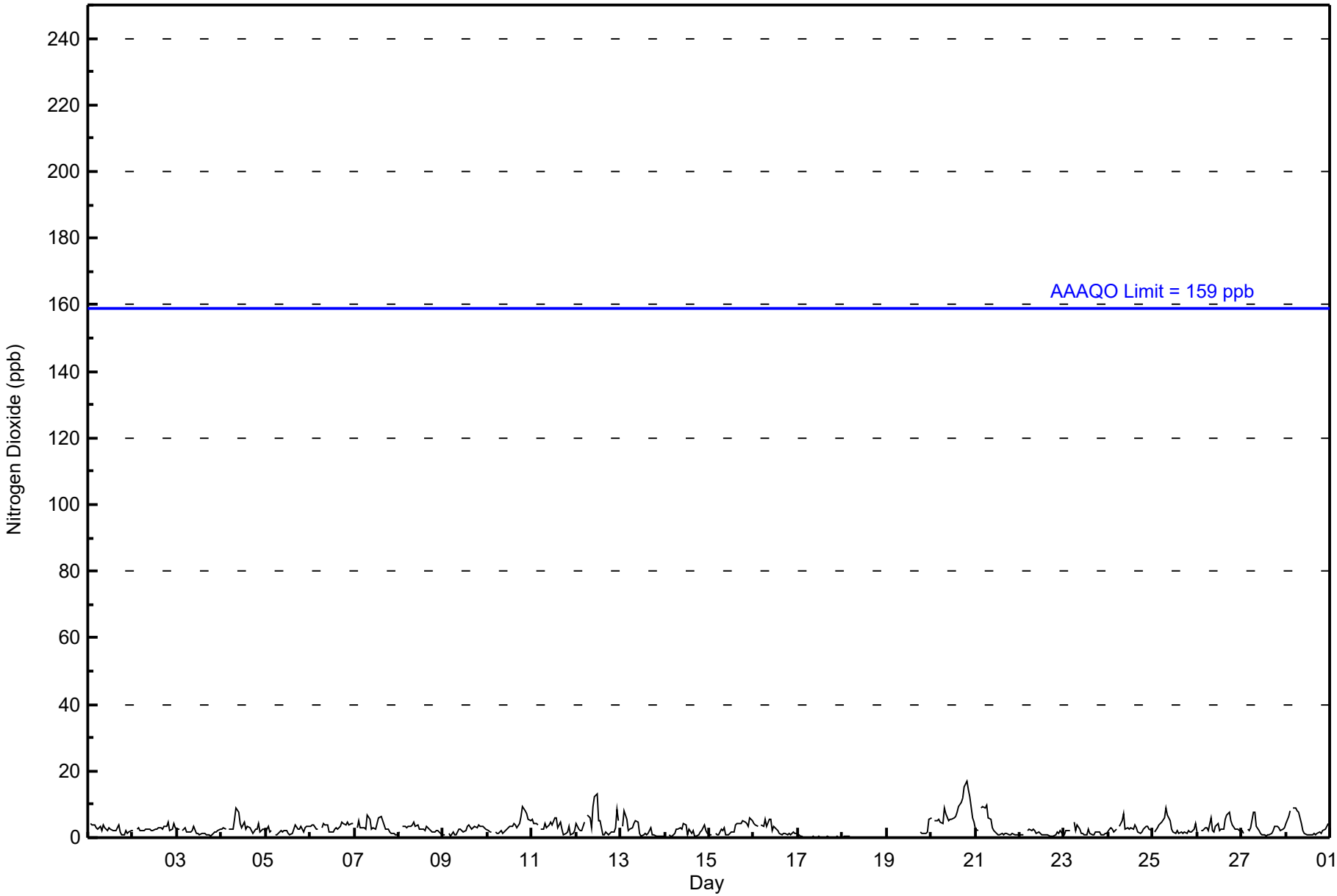
Z - zerospan C - Calibration UO - Unstable Operation
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Dioxide (NO_2) - ppb

Blackgold - February 2026



Nitrogen Dioxide (NO_2) - ppb
Blackgold - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	609	100.00	100.00
21 - 40	0	0.00	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 609

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Dioxide (NO_2) - ppb

Blackgold - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	36	42	68	27	21	22	17	17	27	43	83	51	64	24	39	27	608
21 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	36	42	68	27	21	22	17	17	27	43	83	51	64	24	39	27	608

Total Number of Valid Hours: 608

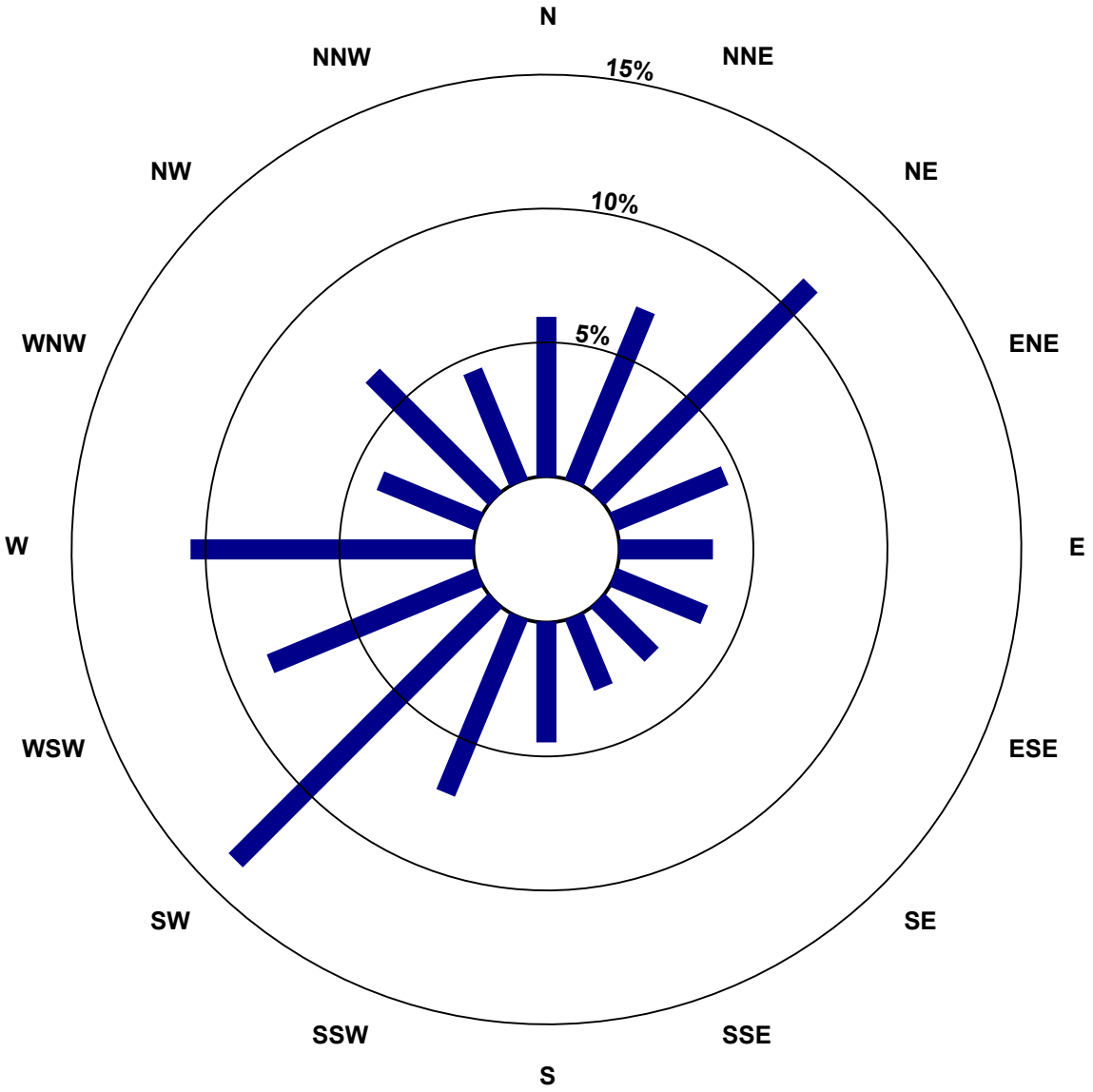
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Dioxide (NO_2) - ppb

Blackgold



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

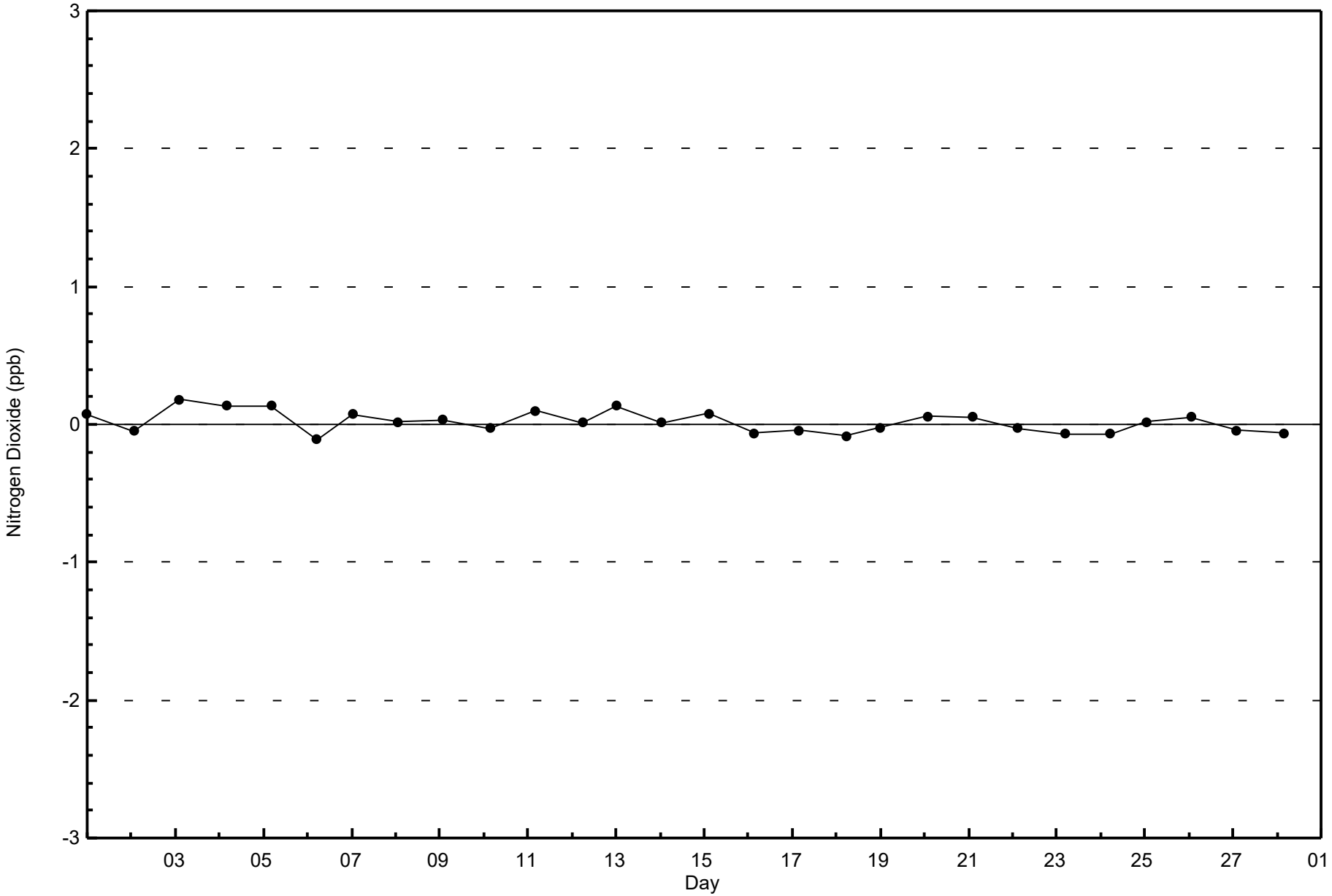
Total Number of Valid Hours: 608

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Dioxide (NO_2) - ppb

Blackgold - February 2026

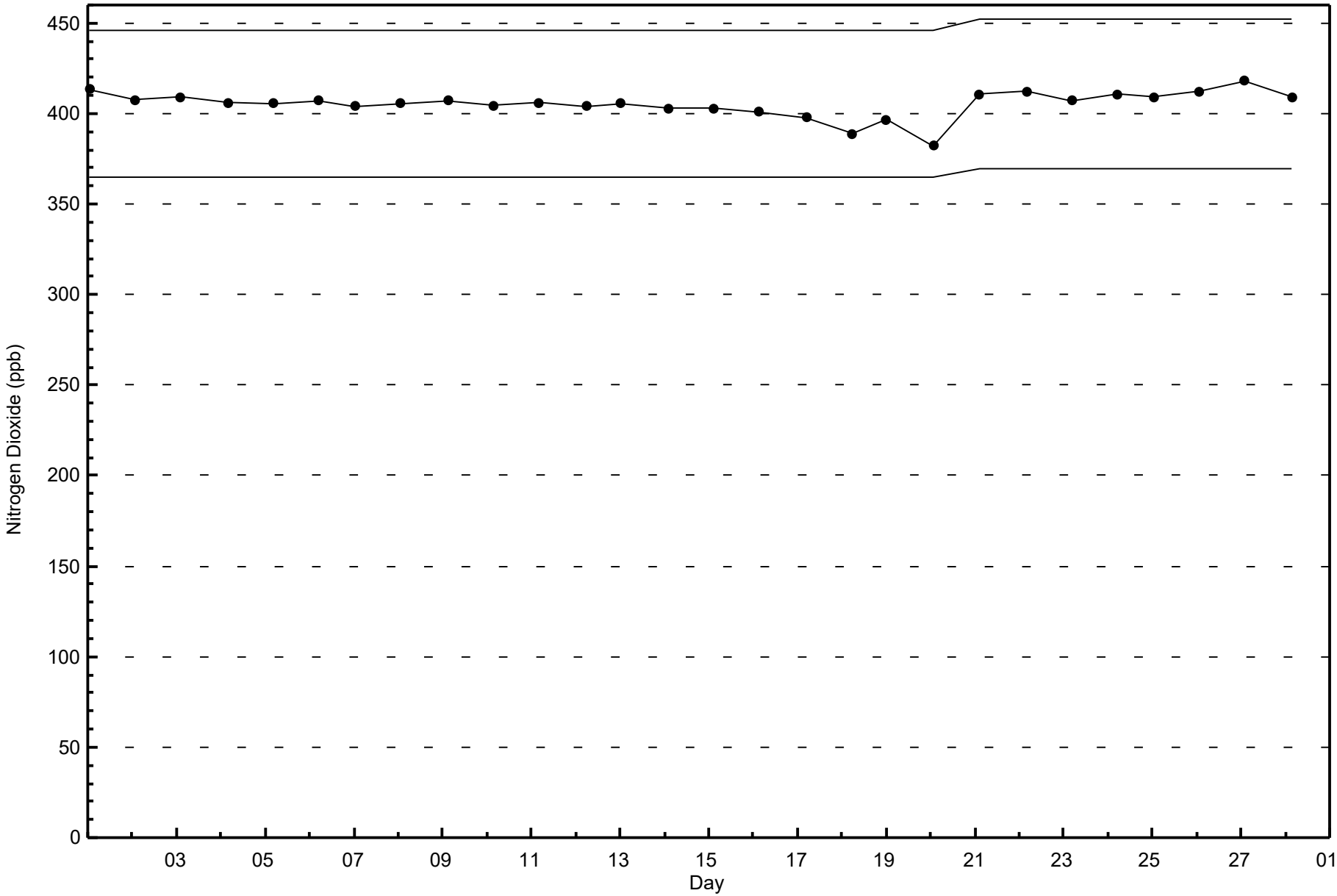


Wood Buffalo Environmental Association

Span Responses

Nitrogen Dioxide (NO_2) - ppb

Blackgold - February 2026



Wood Buffalo Environmental Association

Summary of Hour Averages

Nitrogen Oxides (NO_X) - ppb

Blackgold - February 2026

Maximum Value: 25.5 ppb on Feb 12 11:00

Maximum Daily Average: 9.4 ppb on Feb 20

Minimum Value: 0.1 ppb on Feb 17 08:00

Minimum Daily Average: 0.3 ppb on Feb 17

Maximum Diurnal Average: 5.1 ppb at hour 9

Minimum Diurnal Average: 2.5 ppb at hour 1

Monthly Average: 3.44 ppb

Percentiles: P_1 = 0.2 P_{10} = 0.9 Q_1 = 1.5 Median = 2.6 Q_3 = 4.3 P_{90} = 6.9 P_{99} = 14.3

Hours in Service:	672
Hours of Data:	609
Hours of Missing Data:	63
Hours of Calibration:	32
Percent Operational Time:	95.4

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	Z	4.4	3.9	3.9	2.8	2.7	3.3	2.1	3.9	3.1	2.5	3.4	3.4	2.6	2.5	2.2	3.9	1.9	0.8	0.7	2.1	1.2	1.7	2.0	2.7	4.4
2-Feb	2.2	Z	2.5	2.8	2.1	2.1	2.1	2.5	2.5	3.0	2.4	2.5	3.2	3.1	4.3	3.6	2.8	3.8	3.5	5.0	2.3	2.5	4.6	3.2	3.0	5.0
3-Feb	2.5	2.5	Z	2.2	3.1	1.8	1.9	2.0	2.8	5.4	1.6	1.7	1.3	1.7	1.5	1.3	1.1	0.8	0.6	0.8	1.8	1.8	2.4	2.6	2.0	5.4
4-Feb	2.4	2.9	2.6	Z	2.5	2.8	2.7	7.0	13.0	11.1	6.2	4.6	7.6	3.7	4.8	3.4	2.6	1.5	2.7	2.9	4.8	2.0	2.8	3.1	4.3	13.0
5-Feb	2.0	4.0	1.9	2.2	Z	1.1	1.1	2.0	2.3	1.9	2.6	2.6	1.5	1.1	1.8	3.2	4.5	2.8	2.9	3.5	2.0	2.9	3.3	3.5	2.5	4.5
6-Feb	3.7	4.0	3.9	2.7	2.7	Z	3.3	4.4	4.2	4.4	2.3	2.4	3.0	3.6	4.0	3.2	3.5	5.2	4.3	4.0	4.7	3.9	4.3	4.5	3.7	5.2
7-Feb	Z	2.9	5.4	3.3	3.0	3.4	2.5	8.2	6.5	3.0	3.6	3.8	6.0	8.7	7.9	5.8	4.1	2.5	2.4	1.7	1.4	1.2	1.0	0.9	3.9	8.7
8-Feb	1.5	Z	3.6	3.3	3.1	3.2	3.9	4.2	5.2	4.5	6.6	3.2	3.1	3.5	2.9	4.4	2.6	2.0	1.8	1.9	2.1	2.5	1.6	1.1	3.1	6.6
9-Feb	1.0	1.1	Z	1.2	0.6	1.7	0.8	0.9	3.0	3.8	3.6	2.9	4.5	6.2	5.7	3.5	3.4	3.7	2.9	3.8	3.6	3.3	2.8	2.5	2.9	6.2
10-Feb	2.0	1.8	1.7	Z	1.6	1.2	1.3	2.1	1.5	2.7	4.9	6.3	6.9	4.9	5.0	4.6	3.1	4.5	6.9	9.5	8.0	7.3	5.4	5.2	4.3	9.5
11-Feb	5.7	4.2	4.4	4.0	Z	2.8	2.9	4.9	3.2	5.6	6.7	6.2	10.4	10.1	4.3	6.6	3.3	0.9	1.2	1.9	4.3	1.0	1.6	2.3	4.3	10.4
12-Feb	5.3	2.7	2.3	2.5	5.1	Z	8.7	6.7	3.3	16.3	25.5	24.8	8.8	8.9	1.3	1.2	1.6	1.0	1.1	1.5	1.9	2.8	10.7	5.8	6.5	25.5
13-Feb	Z	4.2	10.2	6.2	2.1	2.6	3.4	4.7	6.1	5.9	1.7	0.8	0.9	2.1	1.2	1.4	3.6	0.8	0.7	0.5	0.3	0.5	0.5	0.4	2.6	10.2
14-Feb	0.6	Z	0.9	0.6	0.6	1.1	2.4	2.6	3.2	3.2	5.8	5.4	0.9	3.8	1.4	3.1	0.4	0.6	0.8	1.6	2.4	4.3	2.4	1.3	2.2	5.8
15-Feb	1.0	0.8	Z	1.5	1.1	0.9	2.9	2.5	3.9	1.1	1.4	2.0	2.5	2.2	4.6	5.1	4.9	4.3	5.3	4.7	4.1	3.6	5.8	5.2	3.1	5.8
16-Feb	4.3	3.7	3.4	Z	3.7	3.3	6.1	3.6	7.2	7.9	3.6	6.8	5.7	4.1	2.6	1.3	1.7	1.4	1.0	1.2	0.8	1.6	1.2	1.2	3.4	7.9
17-Feb	0.9	0.6	0.3	0.2	Z	0.1	0.3	0.1	0.5	0.2	0.2	0.5	0.3	0.3	0.2	0.3	0.4	0.2	0.2	0.1	0.1	0.3	0.2	0.2	0.3	0.9
18-Feb	0.2	0.4	0.5	0.6	0.6	Z	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	--	0.6
19-Feb	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	UO	C	C	C	C	C	1.6	1.3	1.4	1.2	1.6	5.4	--	5.4
20-Feb	6.2	Z	5.0	5.1	5.8	4.5	4.2	10.5	9.6	8.0	8.8	10.1	9.9	9.7	11.1	12.2	12.6	12.7	15.7	17.3	14.4	12.3	6.1	4.6	9.4	17.3
21-Feb	2.5	2.4	Z	9.2	9.3	8.7	10.2	6.2	6.6	4.4	3.4	2.2	1.2	1.2	1.5	1.3	1.6	1.5	1.2	1.0	1.2	0.8	0.7	1.0	3.4	10.2
22-Feb	0.9	1.0	0.9	Z	2.0	2.7	2.3	2.5	2.4	1.5	2.1	1.5	1.0	0.9	0.9	0.9	0.5	0.5	0.6	1.1	1.7	1.4	2.0	0.9	1.4	2.7
23-Feb	1.0	2.2	2.1	2.0	Z	4.8	2.1	4.2	3.2	1.5	2.6	1.2	1.2	4.9	1.8	1.0	1.1	2.2	1.8	1.8	1.0	0.9	1.4	1.2	2.1	4.9
24-Feb	2.8	3.4	2.8	2.1	2.8	Z	5.1	9.5	14.9	4.4	6.6	5.7	6.4	5.6	8.2	4.6	2.4	1.3	1.7	2.5	3.3	3.4	2.6	2.1	4.5	14.9
25-Feb	Z	2.0	3.0	4.1	4.3	4.9	6.6	11.4	9.1	8.2	3.7	2.8	2.0	3.4	1.6	2.1	1.6	1.9	1.4	2.3	1.7	1.7	2.7	4.8	3.8	11.4
26-Feb	1.7	Z	2.3	2.3	2.9	3.0	2.3	7.6	3.4	2.3	7.3	6.4	3.3	4.4	3.8	7.7	8.5	9.5	5.2	3.8	2.4	2.4	2.6	2.2	4.2	9.5
27-Feb	2.4	1.4	Z	2.5	2.1	3.2	9.3	10.3	4.6	3.4	1.9	1.7	1.3	1.0	1.1	1.3	1.7	2.5	3.3	3.2	2.8	2.3	2.4	2.8	3.0	10.3
28-Feb	4.3	6.4	8.0	Z	9.2	8.9	8.2	8.5	6.1	3.6	1.9	1.6	1.4	1.2	1.2	1.6	1.2	1.2	1.7	1.5	2.1	2.8	3.4	4.2	3.9	9.2
	2.5	2.7	3.3	2.9	3.2	3.1	3.8	5.0	5.1	4.6	4.6	4.3	3.8	4.0	3.4	3.3	3.0	2.7	2.7	3.0	2.9	2.7	2.9	2.8	Diurnal Average	
	6.2	6.4	10.2	9.2	9.3	8.9	10.2	11.4	14.9	16.3	25.5	24.8	10.4	10.1	11.1	12.2	12.6	12.7	15.7	17.3	14.4	12.3	10.7	5.8	Diurnal Maximum	

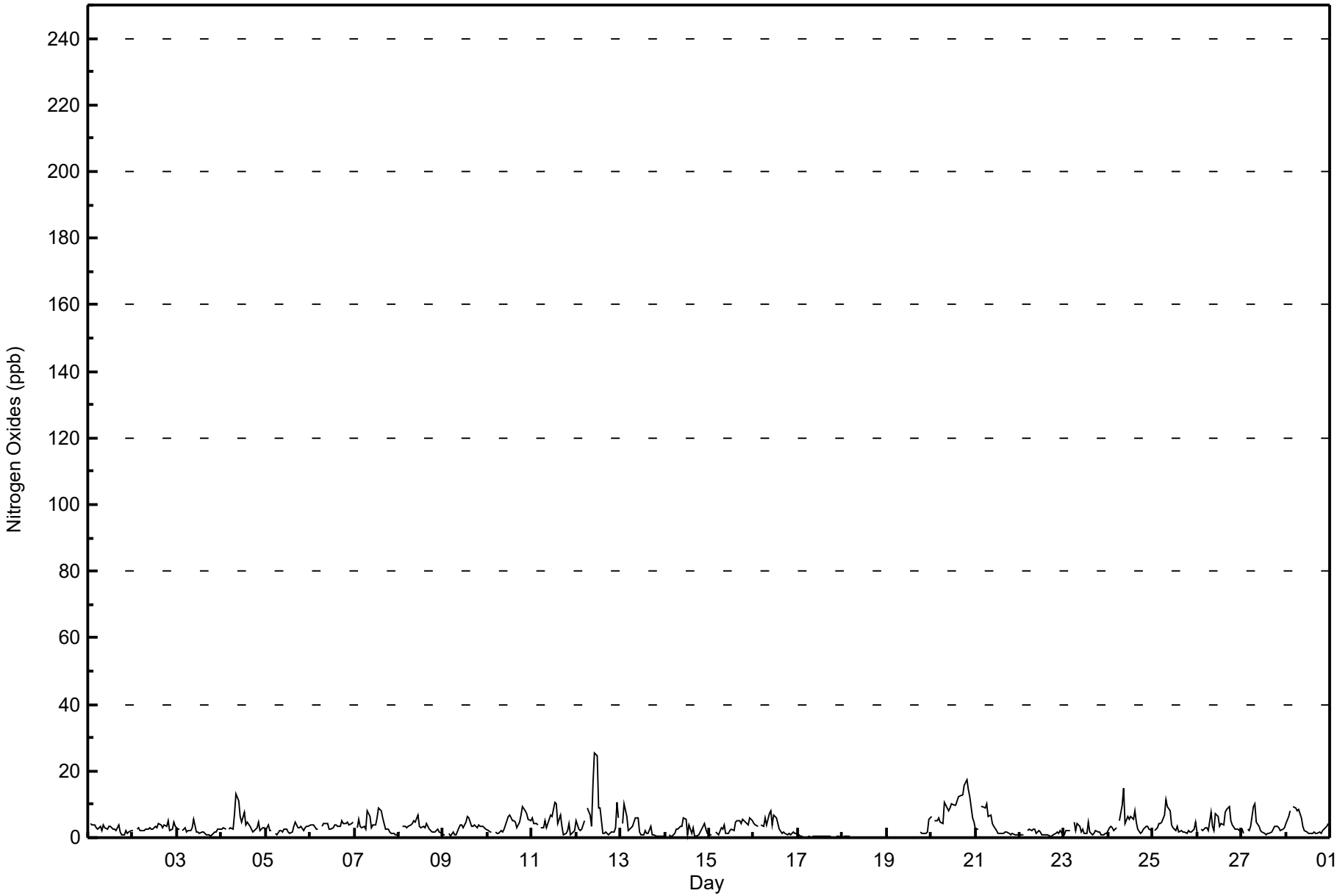
Z - zerospan C - Calibration UO - Unstable Operation

Wood Buffalo Environmental Association

Hourly Averages

Nitrogen Oxides (NO_X) - ppb

Blackgold - February 2026



Nitrogen Oxides (NO_X) - ppb
Blackgold - February 2026

Concentration Ranges (ppb)	Number of Hours	%	Cumulative %
0 - 20	607	99.67	99.67
21 - 40	2	0.33	100.00
11 - 80	0	0.00	100.00
81 - 159	0	0.00	100.00
> 159	0	0.00	100.00

Total Number of Valid Hours: 609

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Nitrogen Oxides (NO_X) - ppb

Blackgold - February 2026

Concentration Ranges (ppb)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 20	36	42	68	27	21	22	17	17	27	43	83	49	64	24	39	27	606
21 - 40	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
11 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	36	42	68	27	21	22	17	17	27	43	83	51	64	24	39	27	608

Total Number of Valid Hours: 608

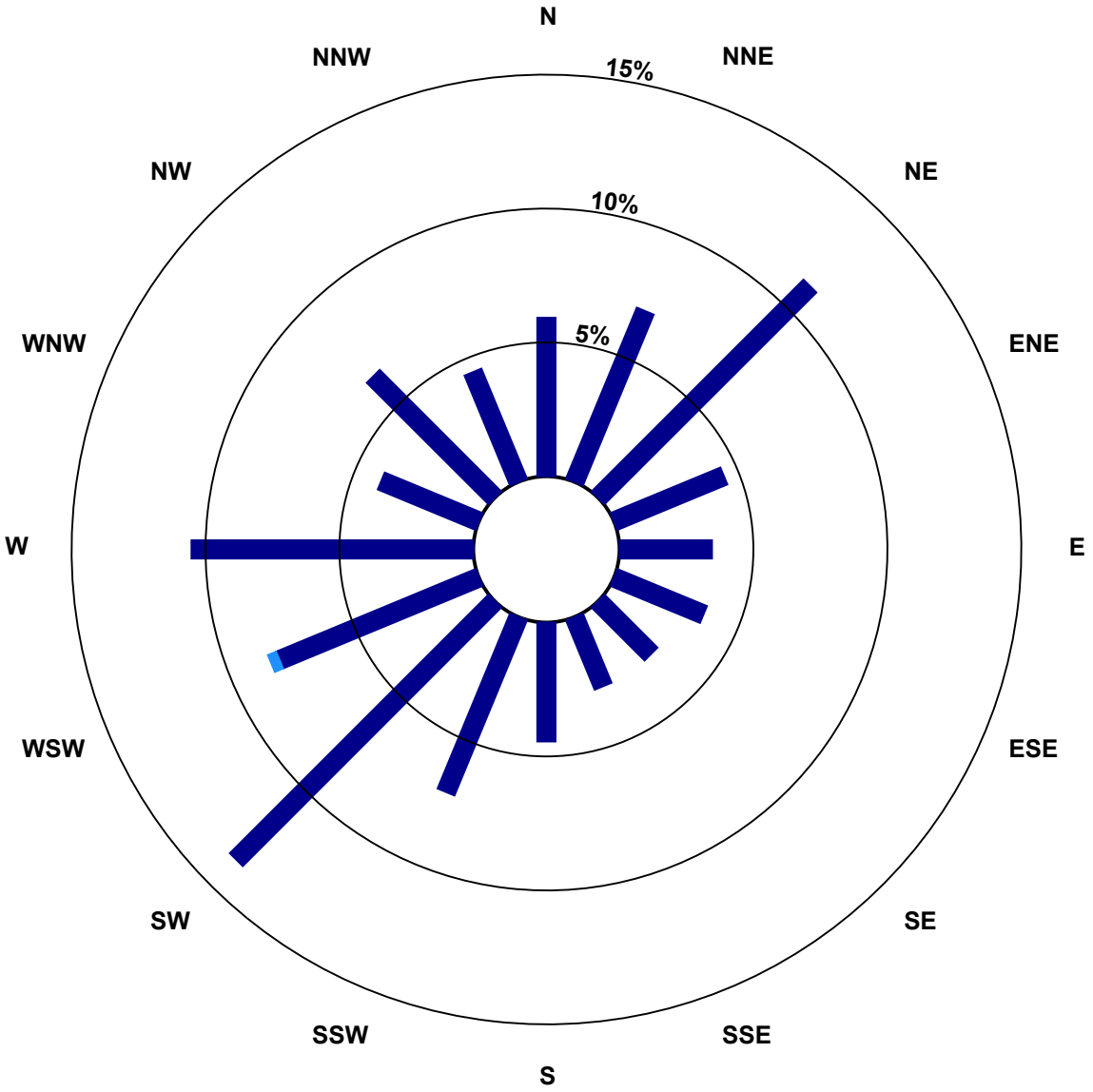
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Nitrogen Oxides (NO_X) - ppb

Blackgold



Classes (ppb)

0 - 20

21 - 40

11 - 80

81 - 159

> 159

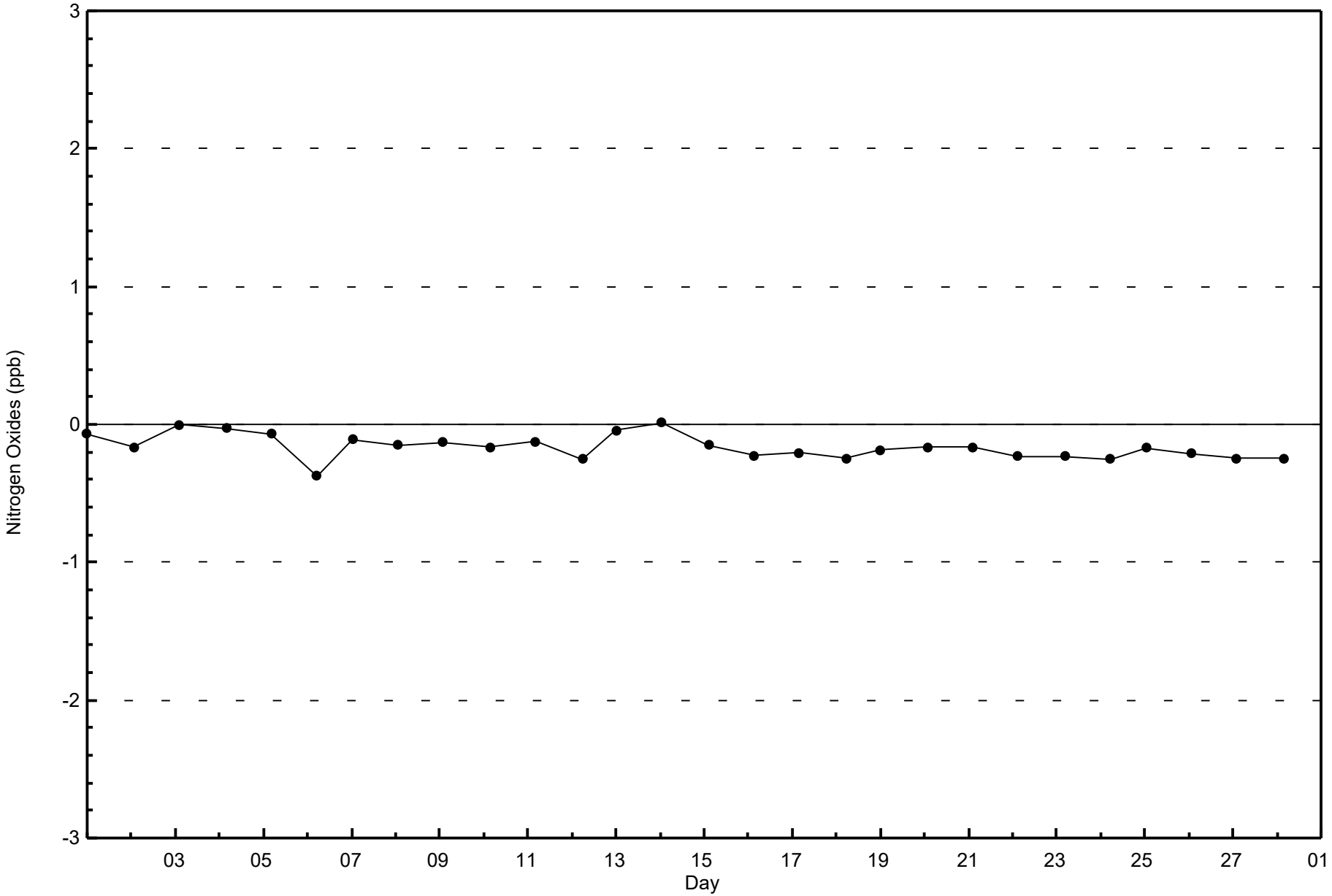
Total Number of Valid Hours: 608

Wood Buffalo Environmental Association

Zero Responses

Nitrogen Oxides (NO_X) - ppb

Blackgold - February 2026

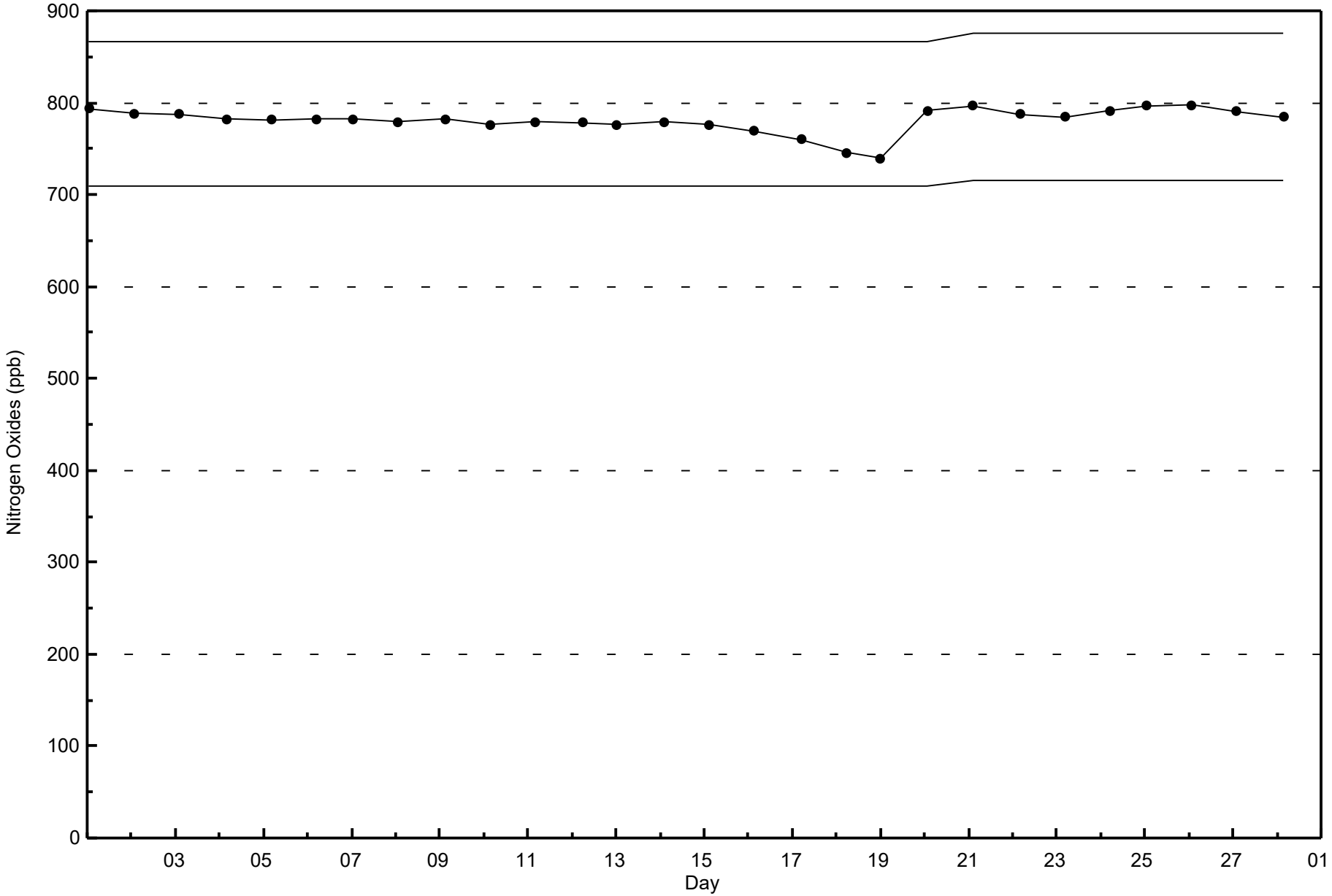


Wood Buffalo Environmental Association

Span Responses

Nitrogen Oxides (NO_X) - ppb

Blackgold - February 2026



Maximum Value: 9.1 C on Feb 4 15:00

Maximum Daily Average: 3.8 C on Feb 4

Minimum Value: -39.4 C on Feb 28 07:00

Minimum Daily Average: -28.7 C on Feb 18

Maximum Diurnal Average: -7.5 C at hour 15

Minimum Diurnal Average: -13.8 C at hour 8

Monthly Average: -11.10 C

Percentiles: P_1 = -36.6 P_{10} = -26.0 Q_1 = -19.2 Median = -8.9 Q_3 = -3.0 P_{90} = 1.1 P_{99} = 6.2

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

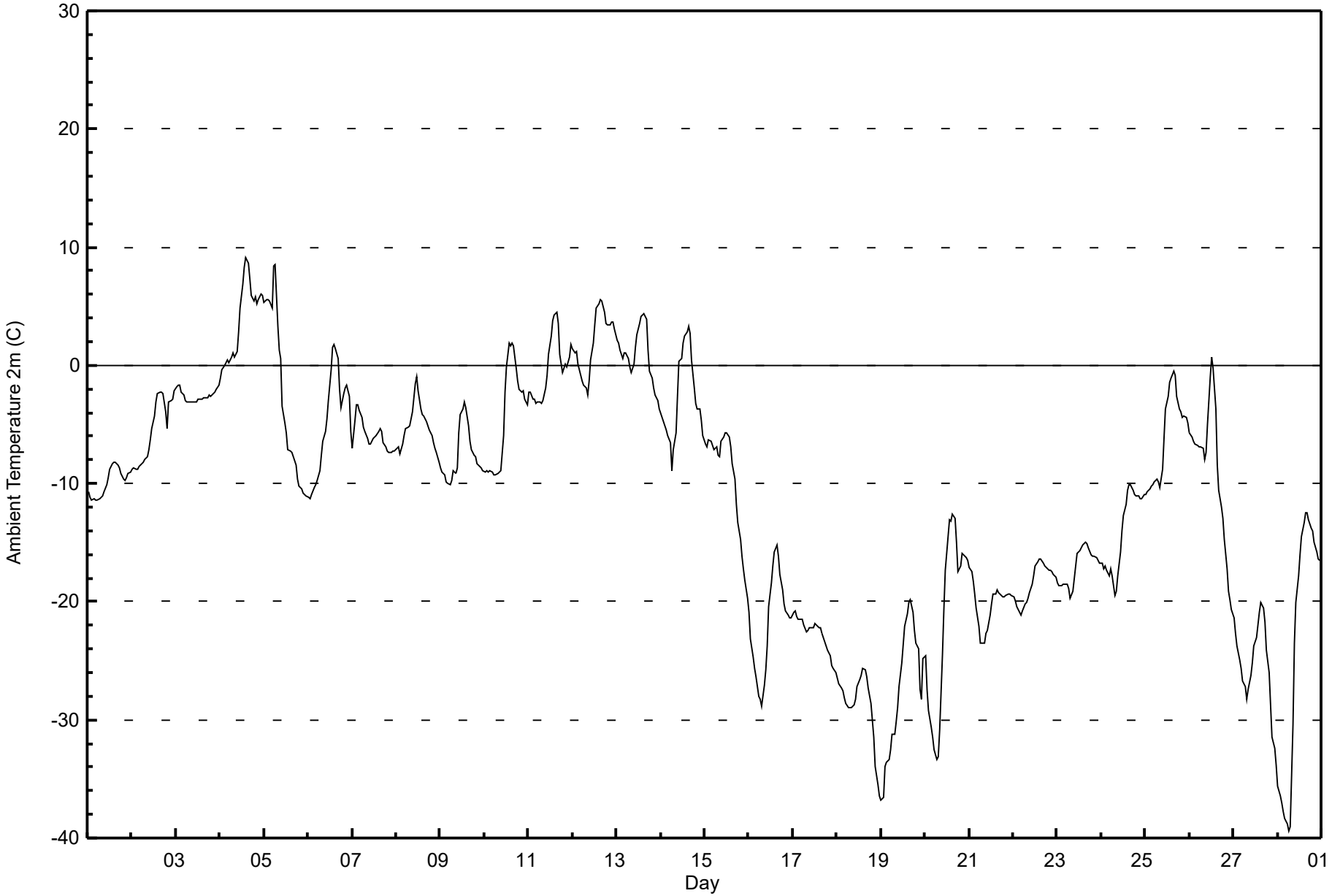
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	-10.7	-11.2	-11.3	-11.3	-11.4	-11.4	-11.3	-11.2	-11.1	-10.7	-10.1	-9.5	-8.8	-8.3	-8.2	-8.2	-8.4	-8.7	-9.1	-9.6	-9.7	-9.5	-9.2	-9.0	-9.9	-8.2
2-Feb	-8.8	-8.7	-8.8	-8.8	-8.6	-8.3	-8.2	-8.0	-7.7	-7.1	-6.3	-5.4	-4.3	-3.1	-2.4	-2.3	-2.3	-2.4	-3.9	-5.4	-3.1	-3.0	-2.8	-2.2	-5.5	-2.2
3-Feb	-1.8	-1.6	-1.7	-2.2	-2.5	-3.0	-3.1	-3.2	-3.1	-3.1	-3.1	-3.1	-2.9	-2.8	-2.8	-2.8	-2.8	-2.8	-2.5	-2.6	-2.4	-2.3	-2.0	-1.6	-2.6	-1.6
4-Feb	-1.1	-0.4	0.0	0.2	0.5	0.3	0.7	1.1	0.6	1.2	2.8	4.8	6.8	8.3	9.1	8.6	7.3	5.9	5.5	5.8	5.3	5.5	6.0	5.9	3.8	9.1
5-Feb	5.4	5.6	5.5	5.4	4.9	8.4	8.5	3.3	1.3	0.6	-3.5	-4.9	-5.7	-7.1	-7.2	-7.4	-7.8	-8.5	-9.7	-10.3	-10.5	-10.8	-10.9	-11.1	-2.8	8.5
6-Feb	-11.2	-11.2	-11.0	-10.3	-10.1	-9.8	-9.0	-7.6	-6.4	-5.6	-4.5	-3.0	-0.4	1.5	1.8	1.4	0.6	-2.0	-3.5	-2.3	-1.9	-1.7	-2.6	-5.6	-4.8	1.8
7-Feb	-7.0	-4.7	-3.4	-3.4	-3.8	-4.5	-5.2	-5.6	-6.2	-6.6	-6.6	-6.2	-6.0	-6.0	-5.6	-5.4	-5.6	-6.5	-6.9	-7.3	-7.4	-7.4	-7.3	-7.2	-5.9	-3.4
8-Feb	-7.1	-6.9	-7.5	-6.7	-6.0	-5.3	-5.3	-5.2	-4.5	-4.0	-1.6	-1.0	-2.2	-3.6	-4.1	-4.3	-4.8	-5.1	-5.4	-6.0	-6.6	-7.0	-7.4	-8.2	-5.2	-1.0
9-Feb	-8.7	-9.1	-9.3	-9.8	-10.0	-10.1	-9.7	-8.9	-9.2	-8.7	-5.7	-4.1	-3.7	-3.1	-3.6	-5.2	-6.4	-7.1	-7.6	-7.8	-8.3	-8.5	-8.6	-8.9	-7.6	-3.1
10-Feb	-9.0	-8.9	-9.0	-8.9	-9.0	-9.2	-9.3	-9.2	-9.0	-8.9	-6.0	-2.3	-0.1	1.9	1.7	1.9	1.7	-0.2	-1.3	-2.0	-2.2	-2.2	-2.8	-3.4	-4.4	1.9
11-Feb	-2.3	-2.3	-2.9	-2.9	-3.2	-3.1	-3.1	-3.2	-3.0	-2.0	-0.8	0.9	2.5	3.8	4.2	4.4	3.5	0.9	-0.7	-0.3	0.1	-0.2	0.7	1.7	-0.3	4.4
12-Feb	1.4	1.1	1.1	0.1	-0.8	-1.3	-1.7	-1.9	-2.5	-1.3	0.5	1.9	3.5	4.8	5.3	5.5	5.5	4.5	3.6	3.4	3.4	3.7	3.7	3.1	1.9	5.5
13-Feb	2.1	1.8	1.3	0.6	1.1	1.1	0.6	-0.1	-0.6	0.1	1.5	2.6	3.5	4.1	4.3	4.4	3.9	1.3	-0.5	-1.1	-1.9	-2.5	-3.0	-3.7	0.9	4.4
14-Feb	-4.0	-4.8	-5.1	-5.5	-5.9	-6.5	-9.0	-7.2	-5.7	-2.6	0.3	0.6	1.9	2.4	2.9	3.3	2.7	0.4	-2.0	-3.2	-3.7	-3.7	-4.7	-5.9	-2.7	3.3
15-Feb	-6.7	-6.9	-6.4	-6.4	-6.8	-7.1	-6.9	-7.6	-7.7	-6.4	-6.0	-5.7	-5.7	-6.1	-6.9	-8.3	-9.6	-11.7	-13.4	-14.8	-16.1	-17.3	-18.2	-19.7	-9.5	-5.7
16-Feb	-20.9	-23.2	-24.7	-25.7	-26.3	-28.0	-28.3	-28.9	-27.1	-25.8	-23.7	-20.4	-18.4	-17.0	-15.8	-15.2	-16.2	-17.8	-19.0	-20.2	-20.7	-21.1	-21.3	-21.3	-22.0	-15.2
17-Feb	-20.9	-20.8	-21.3	-21.5	-21.5	-21.5	-21.9	-22.5	-22.4	-22.2	-22.2	-22.1	-21.9	-22.0	-22.3	-22.3	-22.6	-23.3	-23.7	-24.1	-24.5	-25.4	-25.7	-26.0	-22.7	-20.8
18-Feb	-26.5	-27.0	-27.3	-27.5	-28.1	-28.7	-29.0	-28.9	-28.9	-28.7	-28.2	-27.1	-26.6	-26.2	-25.7	-25.7	-26.3	-27.3	-28.6	-30.0	-31.5	-34.0	-35.4	-36.4	-28.7	-25.7
19-Feb	-36.8	-36.5	-33.9	-33.6	-33.3	-32.6	-31.2	-31.2	-30.2	-29.0	-27.1	-25.1	-23.6	-22.1	-21.0	-20.0	-19.9	-20.9	-22.5	-23.6	-24.0	-27.5	-28.2	-24.8	-27.4	-19.9
20-Feb	-24.6	-27.4	-29.3	-30.7	-31.5	-32.5	-33.4	-33.1	-30.9	-24.4	-20.6	-17.3	-14.5	-13.1	-13.1	-12.6	-12.9	-15.0	-17.5	-17.0	-15.9	-16.1	-16.3	-16.5	-21.5	-12.6
21-Feb	-17.1	-17.5	-18.3	-19.4	-20.5	-22.0	-23.5	-23.5	-23.5	-22.6	-22.5	-21.1	-20.2	-19.4	-19.4	-19.1	-19.2	-19.4	-19.6	-19.6	-19.5	-19.4	-19.4	-19.5	-20.2	-17.1
22-Feb	-19.6	-19.9	-20.4	-20.9	-21.1	-20.7	-20.2	-20.1	-19.7	-19.2	-18.5	-17.8	-17.0	-16.6	-16.4	-16.4	-16.8	-17.0	-17.1	-17.3	-17.4	-17.5	-17.7	-18.0	-18.5	-16.4
23-Feb	-18.4	-18.6	-18.7	-18.5	-18.5	-18.6	-18.9	-19.7	-19.2	-18.0	-16.9	-15.9	-15.7	-15.4	-15.2	-15.0	-15.0	-15.4	-16.0	-16.1	-16.1	-16.3	-16.5	-16.8	-17.1	-15.0
24-Feb	-16.7	-17.2	-17.0	-17.4	-17.9	-17.2	-17.9	-19.5	-19.1	-17.8	-15.8	-14.0	-12.8	-11.7	-10.6	-10.1	-10.1	-10.6	-11.0	-11.1	-11.0	-11.3	-11.3	-10.9	-14.2	-10.1
25-Feb	-11.0	-10.7	-10.4	-10.2	-10.1	-9.9	-9.7	-9.8	-10.3	-8.8	-6.2	-3.7	-2.6	-1.4	-1.0	-0.5	-0.8	-2.6	-3.6	-4.0	-4.4	-4.3	-4.4	-4.9	-6.1	-0.5
26-Feb	-5.7	-6.1	-6.4	-6.7	-6.8	-6.8	-6.9	-7.1	-8.0	-7.4	-5.1	-0.9	0.7	-0.3	-3.7	-8.4	-10.6	-12.0	-12.9	-14.7	-17.2	-19.1	-19.8	-20.6	-8.9	0.7
27-Feb	-21.3	-22.7	-23.7	-24.9	-25.7	-26.7	-27.2	-28.2	-27.4	-26.3	-25.1	-23.7	-23.0	-22.0	-20.9	-20.0	-20.5	-21.7	-24.1	-26.0	-28.8	-31.5	-32.4	-33.8	-25.3	-20.0
28-Feb	-35.6	-36.4	-37.1	-37.7	-38.3	-38.9	-39.4	-39.1	-30.3	-23.5	-20.0	-17.9	-16.0	-14.5	-13.3	-12.4	-12.4	-13.1	-13.8	-14.0	-15.0	-15.8	-16.4	-16.5	-23.6	-12.4
	-12.3	-12.6	-12.7	-13.0	-13.3	-13.4	-13.6	-13.8	-13.3	-12.1	-10.7	-9.3	-8.3	-7.7	-7.5	-7.6	-8.1	-9.2	-10.2	-10.8	-11.1	-11.6	-11.9	-12.2	Diurnal Average	
	5.4	5.6	5.5	5.4	4.9	8.4	8.5	3.3	1.3	1.2	2.8	4.8	6.8	8.3	9.1	8.6	7.3	5.9	5.5	5.8	5.3	5.5	6.0	5.9	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Ambient Temperature 2m (AT2) - C

Blackgold - February 2026



Concentration Ranges (C)	Number of Hours	%	Cumulative %
-50 - -20	150	22.32	22.32
-20 - 0	430	63.99	86.31
0 - 10	92	13.69	100.00
10 - 20	0	0.00	100.00
> 20	0	0.00	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Maximum Value: 97.5 % on Feb 8 12:00

Maximum Daily Average: 93.7 % on Feb 3

Minimum Value: 30.7 % on Feb 13 16:00

Minimum Daily Average: 42.8 % on Feb 13

Maximum Diurnal Average: 80.3 % at hour 9

Minimum Diurnal Average: 68.7 % at hour 16

Monthly Average: 75.95 %

Percentiles: P_1 = 39.0 P_{10} = 56.9 Q_1 = 69.7 Median = 77.0 Q_3 = 86.4 P_{90} = 92.3 P_{99} = 96.3

Hours in Service:	672
Hours of Data:	672
Hours of Missing Data:	0
Hours of Calibration:	0
Percent Operational Time:	100.0

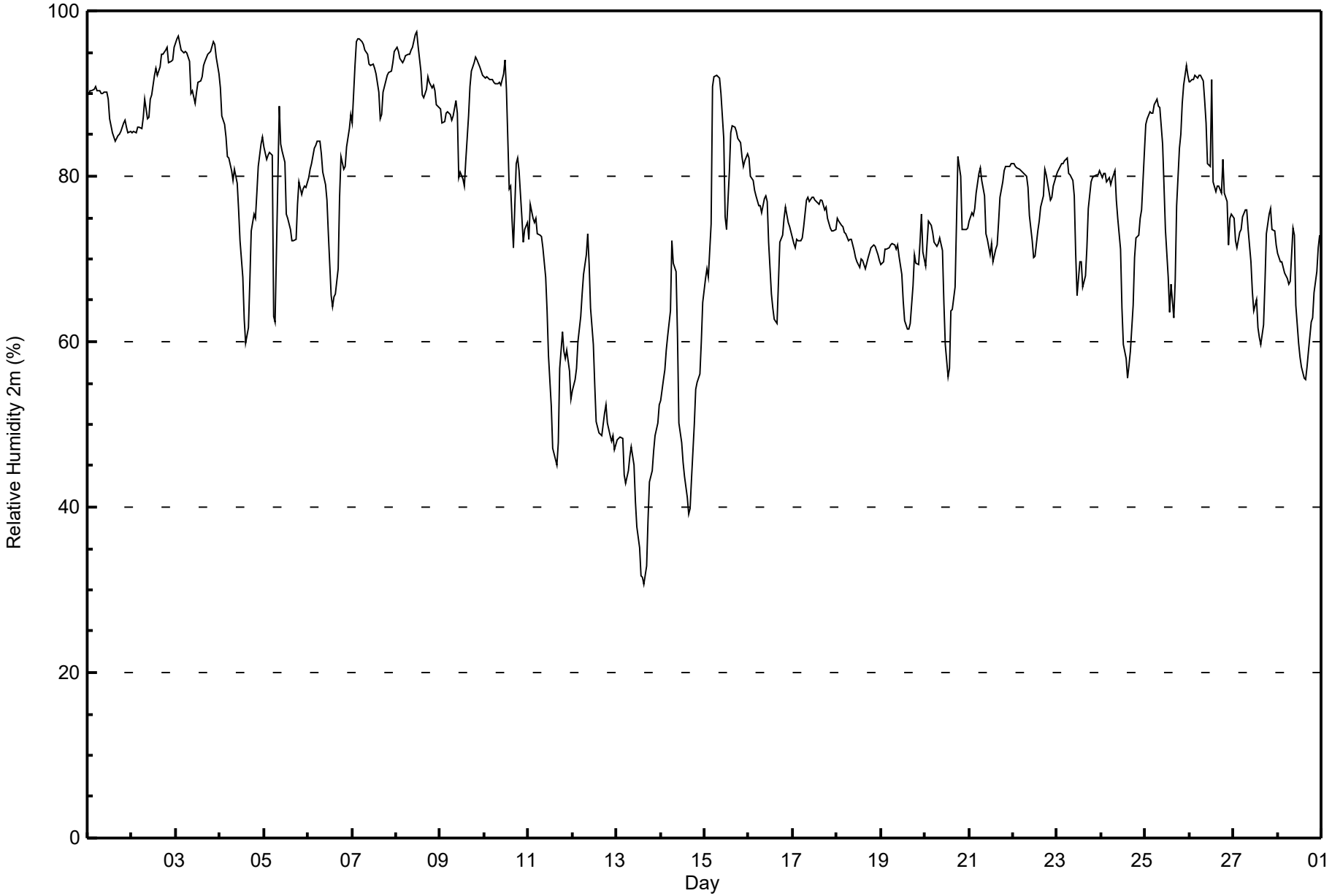
Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	89.8	90.4	90.3	90.5	90.8	90.3	90.3	90.0	90.0	90.2	90.1	89.3	87.0	85.3	84.8	84.3	84.9	85.1	85.4	86.5	86.7	85.9	85.3	85.4	87.8	90.8
2-Feb	85.3	85.5	85.3	86.0	86.0	85.8	87.2	89.3	87.0	87.1	89.4	89.8	92.2	93.0	92.2	93.3	94.7	94.8	95.3	95.7	93.8	93.8	94.2	95.7	90.5	95.7
3-Feb	96.6	97.0	96.2	95.3	95.0	95.1	95.0	93.8	90.0	90.3	88.9	90.2	91.4	91.5	92.1	93.3	93.9	94.7	94.9	95.1	96.3	96.0	94.4	92.4	93.7	97.0
4-Feb	90.6	87.2	86.3	84.8	82.3	82.2	80.6	79.5	80.9	79.1	75.9	72.3	67.8	62.6	59.8	61.7	67.3	73.3	75.4	74.9	77.9	81.2	83.9	84.8	77.2	90.6
5-Feb	83.6	82.1	82.5	82.8	82.6	63.1	62.3	79.6	88.4	83.8	83.1	81.7	75.4	74.9	73.6	72.3	72.3	72.4	76.5	79.4	77.9	78.5	78.8	78.6	77.8	88.4
6-Feb	79.8	80.9	81.6	83.4	83.8	84.3	84.2	82.7	80.5	79.0	77.1	73.0	65.6	64.3	65.5	65.7	68.9	77.5	82.4	80.9	81.2	83.5	85.7	87.5	78.3	87.5
7-Feb	86.4	93.4	96.2	96.6	96.7	96.2	96.0	95.3	94.8	93.6	93.4	93.5	93.1	92.4	90.1	86.9	87.4	90.1	91.6	92.2	92.5	92.8	93.7	95.1	92.9	96.7
8-Feb	95.6	95.1	94.3	93.7	94.1	94.6	94.7	94.8	95.2	95.7	97.1	97.5	95.7	92.7	89.8	89.5	90.5	92.0	91.4	90.7	91.1	90.3	88.7	88.3	93.0	97.5
9-Feb	88.2	86.4	86.7	87.6	87.8	87.4	86.8	87.3	89.2	87.7	79.9	80.6	79.7	78.9	81.9	87.4	90.9	92.8	93.7	94.5	94.0	93.2	92.6	92.1	87.8	94.5
10-Feb	91.9	92.0	91.8	91.7	91.6	91.3	91.2	91.3	91.3	91.1	92.4	94.1	90.5	78.4	78.8	74.7	71.4	81.6	82.2	80.6	75.1	72.1	73.6	74.4	84.8	94.1
11-Feb	72.3	76.6	74.8	74.4	74.9	73.1	72.9	72.6	71.4	67.9	63.7	58.4	52.2	47.2	46.5	45.1	47.9	56.8	61.2	58.9	57.9	59.0	56.4	53.0	62.3	76.6
12-Feb	54.0	55.4	56.7	60.0	63.1	65.8	68.2	70.5	73.0	69.3	64.0	59.6	54.8	50.3	49.0	48.8	48.7	51.3	52.4	50.2	48.6	48.0	48.6	47.0	56.6	73.0
13-Feb	48.1	48.3	48.5	48.2	43.8	43.0	44.3	46.1	47.2	45.1	40.7	37.6	35.0	31.7	31.5	30.7	32.8	38.5	43.1	44.4	46.8	48.7	50.2	52.4	42.8	52.4
14-Feb	52.9	55.4	56.6	59.0	60.6	63.7	72.3	69.5	68.4	60.8	50.2	47.8	45.4	43.7	41.2	39.1	39.9	43.5	49.9	54.3	55.2	56.1	60.0	64.7	54.6	72.3
15-Feb	67.7	68.8	67.9	74.2	90.8	92.0	92.2	92.0	91.9	90.0	84.6	75.2	73.5	80.5	85.3	86.2	86.0	85.4	84.6	84.0	82.3	81.2	81.8	82.7	82.5	92.2
16-Feb	82.2	80.0	79.5	78.2	77.6	76.4	76.4	75.6	77.4	77.7	76.9	72.0	65.8	64.1	62.7	62.3	67.2	72.0	72.8	74.9	76.3	74.5	73.8	73.2	73.7	82.2
17-Feb	71.8	71.4	72.3	72.1	72.1	72.6	73.9	77.2	77.4	76.9	77.5	77.5	77.1	76.9	76.6	77.2	77.2	76.0	76.3	75.0	73.7	73.3	73.3	73.5	74.9	77.5
18-Feb	74.9	74.5	74.1	73.9	73.3	73.0	72.2	72.3	72.4	71.0	70.2	69.7	68.9	70.1	69.8	68.9	69.5	70.2	71.4	71.6	71.7	71.5	70.5	69.8	71.5	74.9
19-Feb	69.4	69.6	71.2	71.3	71.4	71.6	71.8	71.7	71.1	71.8	70.4	68.2	65.0	62.5	61.5	61.5	62.2	66.8	70.5	69.6	69.3	72.0	75.5	70.8	69.0	75.5
20-Feb	69.1	71.9	74.6	74.1	73.2	72.0	71.5	71.8	72.6	71.0	64.7	59.6	55.8	56.7	63.8	63.9	66.6	74.5	82.4	80.1	73.6	73.6	73.5	73.7	70.2	82.4
21-Feb	74.6	75.6	75.3	76.1	78.0	80.3	81.1	79.5	77.6	73.1	72.3	70.5	71.9	69.6	71.1	71.7	74.4	77.4	79.4	80.7	81.1	81.2	81.3	81.5	76.5	81.5
22-Feb	81.5	81.2	81.0	80.8	80.7	80.6	80.2	80.0	78.7	75.2	72.2	70.2	70.3	73.4	74.6	76.3	77.6	80.9	80.1	78.2	77.1	77.5	78.8	80.0	77.8	81.5
23-Feb	80.5	80.8	81.6	81.6	81.9	82.2	80.3	80.2	79.4	77.6	70.7	65.6	69.7	69.7	66.6	68.0	71.4	76.2	79.4	79.8	80.0	80.2	80.3	80.6	76.8	82.2
24-Feb	79.8	80.4	80.3	79.4	79.8	79.0	79.7	80.6	77.1	75.0	71.1	64.0	59.6	58.0	55.6	57.1	58.8	64.4	70.2	72.5	72.8	75.0	76.0	82.9	72.0	82.9
25-Feb	86.3	86.9	87.8	87.6	87.6	88.7	89.4	88.5	88.3	83.8	78.8	73.6	67.9	63.6	67.0	62.9	67.4	76.4	83.3	85.1	88.7	91.0	93.4	92.3	81.9	93.4
26-Feb	91.4	91.6	91.7	92.2	91.9	92.2	92.3	91.6	89.1	86.4	81.5	81.2	91.7	79.4	78.1	78.9	78.9	78.0	82.1	78.0	77.0	71.7	74.9	75.5	84.0	92.3
27-Feb	75.0	72.2	71.3	73.2	73.5	75.1	75.9	76.0	73.6	69.6	66.1	63.8	65.1	61.8	60.5	59.7	62.1	67.2	73.0	75.4	76.1	73.5	73.4	71.7	70.2	76.1
28-Feb	70.6	69.7	69.7	69.0	68.3	67.6	67.0	67.3	73.7	72.8	64.5	59.8	58.1	56.9	55.7	55.4	57.0	58.7	62.3	63.0	65.9	68.5	71.3	72.8	65.2	73.7
	78.2	78.6	78.8	79.2	79.8	79.3	79.6	80.2	80.3	78.3	75.3	72.7	70.9	68.9	68.8	68.7	70.3	73.9	76.5	76.6	76.4	76.6	77.3	77.6	Diurnal Average	
	96.6	97.0	96.2	96.6	96.7	96.2	96.0	95.3	95.2	95.7	97.1	97.5	95.7	93.0	92.2	93.3	94.7	94.8	95.3	95.7	96.3	96.0	94.4	95.7	Diurnal Maximum	

Wood Buffalo Environmental Association

Hourly Averages

Relative Humidity 2m (RH2) - %

Blackgold - February 2026



Concentration Ranges (%)	Number of Hours	%	Cumulative %
0 - 20	0	0.00	0.00
20 - 40	9	1.34	1.34
40 - 60	78	11.61	12.95
60 - 80	310	46.13	59.08
80 - 100	275	40.92	100.00

Total Number of Valid Hours: 672

Total Number of Hours: 672

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Speed 10m (WS10) - km/h

Blackgold - February 2026

Maximum Speed: 21 km/h on Feb 26 14:00

Maximum Daily Speed Average: 12.8 km/h on Feb 17

Minimum Speed Value: 0 km/h on Feb 10 09:00

Minimum Daily Speed Average: 0.7 km/h on Feb 20

Maximum Diurnal Speed Average: 4.2 km/h at hour 14

Minimum Diurnal Speed Average: 0.4 km/h at hour 19

Monthly Average Velocity: 1.9 km/h 264.9 deg

Percentiles: P_1 = 1 P_{10} = 3 Q_1 = 4 Median = 7 Q_3 = 10 P_{90} = 13 P_{99} = 18

Hours in Service: 672

Hours of Data: 671

Hours of Missing Data: 1

Percent Operational Time: 99.9

Day	Hourly Period Ending At (MST)																								Daily	Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average	Maximum
1-Feb	E5	ENE6	E4	E4	E5	E4	ESE6	ESE7	ESE6	ESE8	SE10	SE11	SSE11	SSE10	SE11	SE11	SE10	SE10	SE11	SSE8	SSE7	SSE10	SSE9	SSE7	SE7.3	SE11
2-Feb	SSE7	SSE7	SSE8	SSE8	SSE7	S11	S9	S8	S10	S8	SSW8	SSW7	SW10	SW9	SW10	SW9	SW10	SW6	NW2	WNW4	WNW6	NW4	WNW3	W3	SSW5.6	S11
3-Feb	WNW3	WNW4	NNW5	NNW4	NW3	NNE3	N3	N5	NNW3	NW4	W5	SW4	SW5	SSW6	SW6	S7	S9	S8	S9	S12	S11	S12	S12	S12	SSW3.6	S12
4-Feb	SSE10	S10	S15	SSW15	SSW15	SSW13	SW13	SW12	SW10	WSW8	W7	W9	SW9	W11	W10	W7	W5	WNW6	W5	WSW5	WSW7	W7	WSW6	SW7	SW7.9	S15
5-Feb	SW8	SW7	SW5	WSW5	W5	WNW15	WNW17	N7	NNW9	NNW17	NW17	NW15	NW15	NW13	NNW9	NNW8	N6	NNE5	NE3	NE3	ENE5	ENE6	ENE6	NE6	NW5.9	NNW17
6-Feb	ENE5	E4	ENE6	E6	NE4	NE5	ENE3	E4	ESE6	SE7	SE8	SE9	ESE7	SE5	SSE6	ESE4	E5	SSW1	SSE2	S6	SSW8	SSW6	SW2	N3	ESE3.5	SE9
7-Feb	WSW3	SSW5	SW6	SW7	SW6	SW5	SW4	W2	N1	NE4	NE5	NE4	NNE5	NNE5	ENE4	NE6	NNE6	NE6	NE7	NE7	NE5	NE4	NE4	NE4	NE1.6	SW7
8-Feb	NNE3	N4	NW6	ENE2	N2	NNW2	NNW3	NW4	SSE1	ENE2	W5	WNW12	WNW10	NW11	NW12	NW9	NW8	NW9	NW9	NNW7	NNW5	NNW5	NW8	NW8	NW5.6	WNW12
9-Feb	NW7	WNW7	WNW4	W2	SW2	W3	S3	SE3	NNE3	NE3	E1	N2	NE5	NE6	NNE6	NE7	NE7	NE6	NE5	NE5	NNE6	NE5	NNE5	NNE3	NNE2.8	NE7
10-Feb	NNE4	N3	N3	NNE2	NNW2	NE2	NE2	N2	SSE0	NNW2	E2	ESE2	SSW2	SSW6	S7	SSW7	SSW7	S7	SSW7	SSW7	SSW9	SSW9	SSW7	SSW6	SSW2.6	SSW9
11-Feb	SSW8	SSW7	SSW7	SW7	SW7	SW8	SW9	SW8	SW8	SW9	SW10	SW11	WSW11	WSW11	SW10	WSW10	SW6	SSW6	SSW6	SW7	SW8	SW7	SW10	SW10	SW8.1	WSW11
12-Feb	SW9	SW9	SW8	SW8	WSW6	WSW7	WSW9	WSW8	W9	WSW7	WSW9	WSW11	WSW14	SW14	SW12	SW9	SSW12	SW12	SSW10	SSW12	SW13	SW17	WSW16	WSW14	SW10.2	SW17
13-Feb	SW13	SW14	WSW13	WSW13	W15	W16	W16	WSW13	WSW14	WSW15	W19	W19	W17	W19	W19	W15	W10	SSW5	SW6	SW7	SW6	SW6	SW7	SW5	WSW12.0	W19
14-Feb	SW6	SW7	SW6	SW6	SW5	WSW5	WSW3	SW6	SW8	SW8	WSW11	W11	W14	W13	W11	W12	WNW12	WNW8	WSW6	WSW6	WSW8	WSW10	W9	WSW6	WSW7.6	W14
15-Feb	SW7	SW8	WSW8	W9	W6	W4	W7	W7	W7	NW6	NW6	NW7	NW7	NNW6	NNE7	N6	NNE6	NE8	NE6	NE5	NE5	NE5	NE6	NNE4	NW3.4	W9
16-Feb	NNE4	NE2	NNE1	N2	NNE2	SE1	N1	UO	NE3	NE4	ENE4	ENE7	ENE8	ENE9	ENE8	NE9	NE9	NE7	NE6	NE6	NE6	NE8	NE9	NE10	NE5.3	NE10
17-Feb	NE9	NNE9	NE11	NE12	NE14	NE13	NNE14	NE14	NE13	NE16	NNE13	NNE15	NNE14	NNE14	NNE14	NNE14	N14	N13	NNE13	N13	N13	N14	N13	N12	NNE12.8	NNE16
18-Feb	N11	N11	N11	N10	N12	N10	N10	N9	N9	N9	N10	N9	N9	N8	NNW7	NW9	NW9	NW7	NNW6	NW4	NW3	W2	WSW3	WSW4	NNW7.2	N12
19-Feb	WSW3	SW5	WSW7	SW8	SW8	SW7	SW11	SW10	SW10	SW12	WSW13	SW11	WSW13	SW12	SW13	SW10	SW9	SW6	SSW6	SW6	SW6	SSW3	SSW4	SW6	SW8.1	WSW13
20-Feb	SW6	S3	ENE1	NNW1	WSW2	WSW2	SW2	W2	WSW3	SW4	W5	WSW4	W3	N1	NNE4	ENE2	NE4	NE2	N1	NE2	NNE4	NE4	NNE4	NNE4	NW0.7	SW6
21-Feb	NNE3	N3	N4	N5	N3	N3	N3	NNE4	NE6	NNE9	NNE10	NE10	NE10	NE9	NNE8	NE8	ENE8	NE6	NE7	NE6	ENE7	ENE5	NE6	E4	NE5.7	NE10
22-Feb	ENE6	ENE5	NE6	ENE6	NE5	E3	E4	E5	ESE7	ESE10	ESE11	ESE12	ESE10	E10	ESE11	E11	E13	E10	ESE11	ESE11	ESE10	ESE8	ESE6	E7	E7.9	ESE13
23-Feb	ESE7	E4	E4	E3	ENE3	WSW1	SSW4	S3	W7	W7	NW6	W3	WNW6	W8	W10	WNW9	NW8	WNW7	WNW6	WNW5	WNW5	W6	W7	W8	W3.6	W10
24-Feb	W11	W10	W12	W10	WSW9	W12	W11	W8	W11	W12	WSW9	W10	WSW12	SW12	WSW13	WSW11	WSW8	SSW6	SSW6	S6	S7	S5	S5	S7	WSW8.0	WSW13
25-Feb	SE6	SE8	SE8	SE6	SSE3	SE1	NW4	NW5	NW4	NW4	WNW7	W9	W12	WSW12	SW11	SW8	SW7	SW2	WSW1	W2	S1	E1	NE2	NE5	WSW2.4	WSW12
26-Feb	NE5	NE4	ENE4	NE4	NNE5	NE4	NNE2	NNW4	NW5	WNW2	N3	W6	W19	WNW21	NW18	NW17	NW12	WNW19	NW13	NNW15	NNW14	NNW12	NNW14	NNW14	NW8.1	WNW21
27-Feb	NNW11	NNW8	NNW9	NW6	NW4	W6	NW5	NW5	NW6	NNW5	NNW6	NNW5	N5	NNW4	N4	ENE5	ENE6	NE5	NE4	NNE4	N3	NW1	WSW3	W3	NNW3.9	NNW11
28-Feb	WSW3	WSW3	WSW4	W4	WSW3	WSW3	SW2	WSW4	SW8	SW9	SW10	SW13	SW12	SW13	SW13	SSW14	SSW14	SSW11	S11	SSW10	SSW11	SSW11	SW10	SW11	SW8.3	SSW14
	WSW0.9	WSW1.3	WSW1.6	WSW1.5	W1.6	W2.3	W2.7	W2.1	W2.3	WNW2.1	W2.8	W3.5	W4.2	W4.2	W3.7	W2.5	W1.2	W1.1	SW0.4	WSW0.8	SW1.2	SW1.3	WSW1.5	WSW1.4	Diurnal Average	
	SW13	SW14	S15	SSW15	W15	W16	WNW17	NE14	WSW14	NNW17	W19	W19	W19	WNW21	W19	NW17	SSW14	WNW19	NW13	NNW15	NNW14	SW17	WSW16	WSW14	Diurnal Maximum	

UO - Unstable Operation

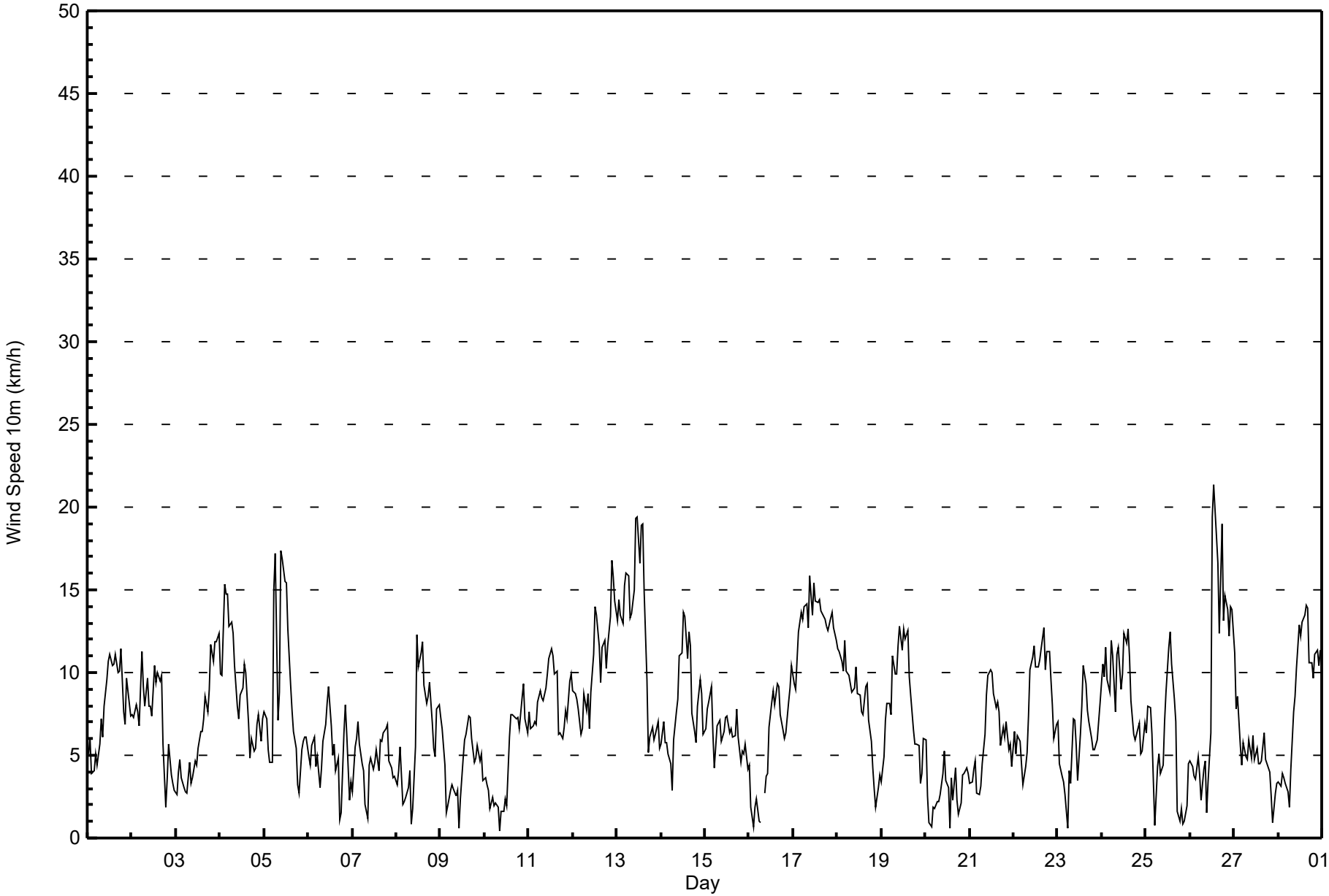
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Speed 10m (WS10) - km/h

Blackgold - February 2026



Wind Speed Ranges (km/h)	Number of Hours	%	Cumulative %
0 - 5	230	34.28	34.28
6 - 11	337	50.22	84.50
12 - 19	103	15.35	99.85
20 - 28	1	0.15	100.00
29 - 38	0	0.00	100.00
> 38	0	0.00	100.00

Total Number of Valid Hours: 671

Total Number of Hours: 672

Wood Buffalo Environmental Association

Frequency Distribution

Wind Speed 10m (WS10) - km/h

Blackgold - February 2026

Wind Speed Ranges (km/h)	Wind Direction																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	**Totals**
0 - 5	24	24	35	15	17	3	4	4	6	7	13	22	18	9	15	14	230
6 - 11	16	9	32	14	5	17	14	14	17	29	71	25	33	10	20	11	337
12 - 19	8	10	4	0	0	2	0	0	5	8	16	13	17	5	9	6	103
20 - 28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
29 - 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	48	43	71	29	22	22	18	18	28	44	100	60	68	25	44	31	671

Total Number of Valid Hours: 671

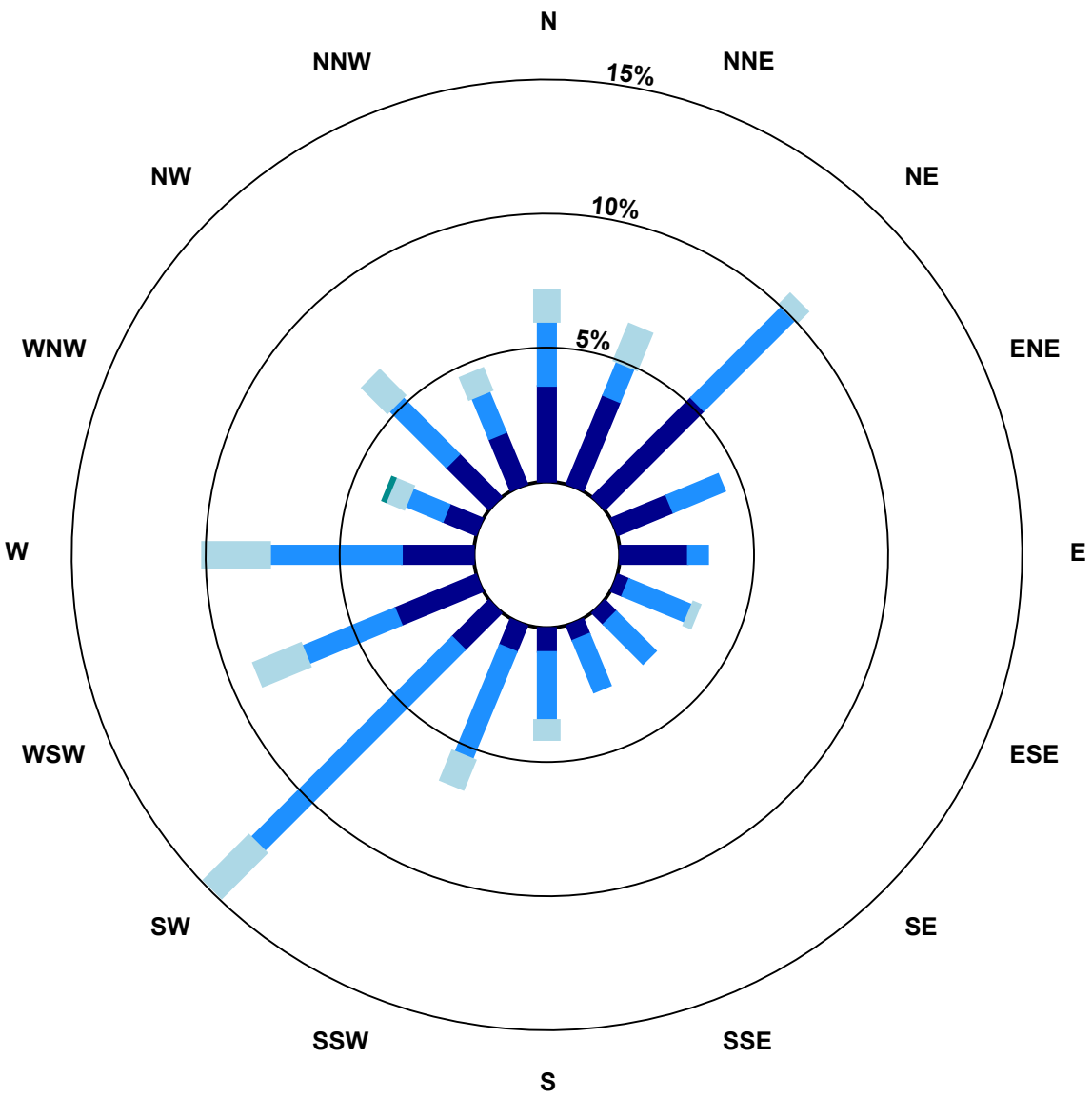
Total Number of Hours: 672

Wood Buffalo Environmental Association

Wind Rose Feb 2026

Wind Speed 10m (WS10) - km/h

Blackgold



Classes (km/h)

0 - 5

6 - 11

12 - 19

20 - 28

29 - 38

> 38

Total Number of Valid Hours: 671

Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Speed 10m (WS10) - km/h

Blackgold - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0
Maximum Value: 7 km/h on Feb 26 14:00

Minimum Value: 0 km/h on Feb 28 00:00

Percentiles: P_1 = 1 P_{10} = 1 Q_1 = 1 Median = 2 Q_3 = 3 P_{90} = 4 P_{99} = 6

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	0
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	1	1	1	1	1	1	1	2	1	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2	3
2-Feb	2	2	2	2	1	2	2	2	2	2	2	2	3	3	3	3	3	2	1	2	1	1	1	1	3
3-Feb	1	1	2	1	1	2	1	2	2	1	2	2	2	2	3	2	2	2	3	3	2	3	3	3	3
4-Feb	3	3	4	5	4	3	4	4	4	3	3	3	3	5	4	3	2	2	2	2	2	3	3	2	5
5-Feb	2	2	2	2	2	6	5	3	4	6	5	4	5	4	2	2	2	2	1	1	2	2	2	2	6
6-Feb	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	2	3	3	2	3	3
7-Feb	2	1	3	2	1	1	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	3
8-Feb	1	2	2	1	1	1	1	1	1	0	3	4	3	4	4	3	2	3	3	2	1	1	2	2	4
9-Feb	2	2	1	1	1	1	1	1	1	1	1	2	1	2	1	2	2	2	1	2	2	1	1	1	2
10-Feb	1	1	1	1	1	1	1	1	1	1	1	1	3	2	2	2	1	1	1	1	2	2	2	2	3
11-Feb	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	4	2	1	1	2	2	2	3	3	4
12-Feb	3	3	3	3	2	3	3	3	3	3	3	4	4	4	4	3	3	4	3	3	4	5	4	3	5
13-Feb	3	4	3	3	3	4	4	3	3	5	4	5	4	4	5	4	4	1	2	2	1	1	1	1	5
14-Feb	1	1	1	2	1	1	1	2	3	2	3	3	3	3	3	3	3	3	1	2	2	2	3	2	3
15-Feb	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	1	2
16-Feb	1	1	1	2	1	1	1	UO	1	1	2	2	2	2	2	3	3	2	2	1	2	2	3	3	3
17-Feb	3	3	4	4	4	5	5	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5
18-Feb	4	4	4	3	4	4	4	3	4	3	3	3	3	3	3	3	3	3	2	1	1	0	1	0	4
19-Feb	1	2	2	2	2	2	3	2	3	3	3	3	3	3	3	3	2	2	1	1	2	1	1	2	3
20-Feb	2	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	2	1	1	1	1	2
21-Feb	1	1	1	1	1	1	1	2	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	3
22-Feb	2	1	2	2	1	1	1	1	2	2	3	3	3	2	3	3	3	2	3	3	2	2	1	1	3
23-Feb	1	1	1	1	1	1	1	2	2	1	2	2	2	3	2	3	2	1	1	1	1	1	1	1	3
24-Feb	2	2	2	2	2	2	2	2	3	3	2	3	4	4	3	3	3	2	1	1	1	1	1	2	4
25-Feb	1	2	2	2	1	1	2	1	1	1	2	2	2	3	3	2	2	2	1	0	1	1	2	1	3
26-Feb	1	1	1	1	1	1	1	1	1	1	2	7	7	7	6	6	4	5	4	4	5	4	4	5	7
27-Feb	4	3	3	2	2	2	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	0	4
28-Feb	0	1	1	1	1	1	1	1	2	3	3	4	4	4	4	4	4	4	3	3	3	3	3	3	4
	4	4	4	5	4	6	5	4	4	6	5	7	7	7	6	6	5	5	5	5	5	5	5	5	
	Diurnal Maximum																								

UO - Unstable Operation

Wood Buffalo Environmental Association

Summary of Hour Averages

Wind Direction 10m (WD10) - deg

Blackgold - February 2026

Direction of Maximum Speed: 296 deg on Feb 26 14:00
Direction of Maximum Daily Speed Average: 22.4 deg on Feb 17

Direction of Minimum Speed: 161 deg on Feb 10 09:00

Direction of Minimum Daily Speed Average: 0.7 deg on Feb 20

Monthly Average Direction: 264.9 deg

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
1-Feb	89	73	79	81	95	101	120	120	114	122	136	140	149	147	143	142	131	140	144	149	157	156	163	149	133.8
2-Feb	154	154	152	163	163	173	177	176	185	189	193	205	220	220	224	223	221	218	323	299	291	304	289	272	199.5
3-Feb	286	302	331	336	325	26	350	351	330	325	275	228	214	196	218	190	184	191	178	178	177	174	177	177	201.2
4-Feb	165	189	190	193	204	208	218	229	236	248	260	261	236	273	265	266	266	283	269	258	249	270	252	226	231.0
5-Feb	225	230	225	242	272	287	295	2	338	333	324	313	323	326	337	339	360	18	41	48	60	67	68	55	324.8
6-Feb	69	90	78	97	50	55	57	88	106	124	125	134	108	136	149	102	99	201	162	179	192	206	224	8	117.6
7-Feb	247	193	235	220	215	228	218	260	7	38	38	43	26	28	65	56	30	37	55	46	56	44	45	42	42.3
8-Feb	24	358	307	68	5	344	333	313	167	61	270	294	302	308	304	305	310	317	313	329	340	329	318	324	316.0
9-Feb	318	301	293	265	229	268	180	141	29	46	87	359	50	43	19	38	48	34	39	36	33	46	33	24	21.8
10-Feb	26	11	11	26	339	42	46	3	161	330	87	109	198	193	189	195	193	184	196	203	201	200	204	213	194.5
11-Feb	211	204	209	221	215	214	220	229	226	232	232	233	246	247	234	254	228	201	202	214	232	216	221	226	225.8
12-Feb	233	230	228	227	242	238	247	253	274	253	252	243	237	230	228	222	211	214	210	211	218	228	241	237	232.1
13-Feb	234	236	246	255	264	262	262	258	255	255	265	275	274	277	277	277	259	209	219	224	222	227	228	220	256.6
14-Feb	227	227	226	224	220	247	257	235	235	225	243	263	276	271	272	274	282	290	243	245	239	257	263	256	254.3
15-Feb	232	232	241	270	275	267	273	273	276	317	321	311	322	329	23	1	17	36	49	35	41	37	40	25	320.1
16-Feb	24	55	14	4	28	134	11	UO	51	49	69	61	76	76	75	56	47	40	55	42	43	44	49	47	52.7
17-Feb	49	33	35	38	37	36	33	35	34	34	32	24	20	19	18	14	7	10	12	10	8	5	2	1	22.4
18-Feb	357	1	5	360	359	360	358	359	358	354	1	360	353	354	327	312	315	315	331	317	308	264	242	248	346.1
19-Feb	256	235	237	229	228	229	236	235	232	235	242	233	241	234	236	221	222	216	213	216	217	199	208	222	230.2
20-Feb	224	179	59	338	254	239	223	264	240	234	272	251	279	4	24	67	50	34	8	40	33	40	29	16	321.6
21-Feb	14	5	2	351	2	354	350	18	38	32	33	40	49	42	25	42	61	42	38	43	57	59	39	84	36.0
22-Feb	61	59	56	71	51	84	101	87	102	121	119	114	115	100	102	100	101	99	105	115	113	118	108	93	100.6
23-Feb	102	99	91	96	63	238	199	189	259	266	313	279	293	268	274	299	307	293	290	287	290	278	278	271	280.6
24-Feb	262	263	265	261	251	265	274	260	263	270	246	260	242	234	241	237	237	213	192	190	186	170	174	173	243.2
25-Feb	139	142	145	145	153	128	321	323	320	306	288	264	270	255	228	236	222	228	251	276	184	96	51	38	239.3
26-Feb	49	51	61	56	31	50	32	341	325	292	356	266	272	296	311	317	316	294	316	329	331	330	330	333	320.1
27-Feb	342	344	328	317	315	274	304	311	325	343	337	331	7	332	352	57	69	52	39	28	6	306	256	260	341.3
28-Feb	246	253	251	259	247	241	236	241	229	228	217	228	228	226	214	196	195	200	190	208	208	210	215	226	217.3
	249.2	237.8	249.7	241.7	264.8	260.4	266.2	274.6	272.1	282.9	277.5	271.2	272.6	272.6	270.1	275.5	269.8	276.4	225.4	237.0	230.5	228.6	255.1	257.7	
	Diurnal Average																								

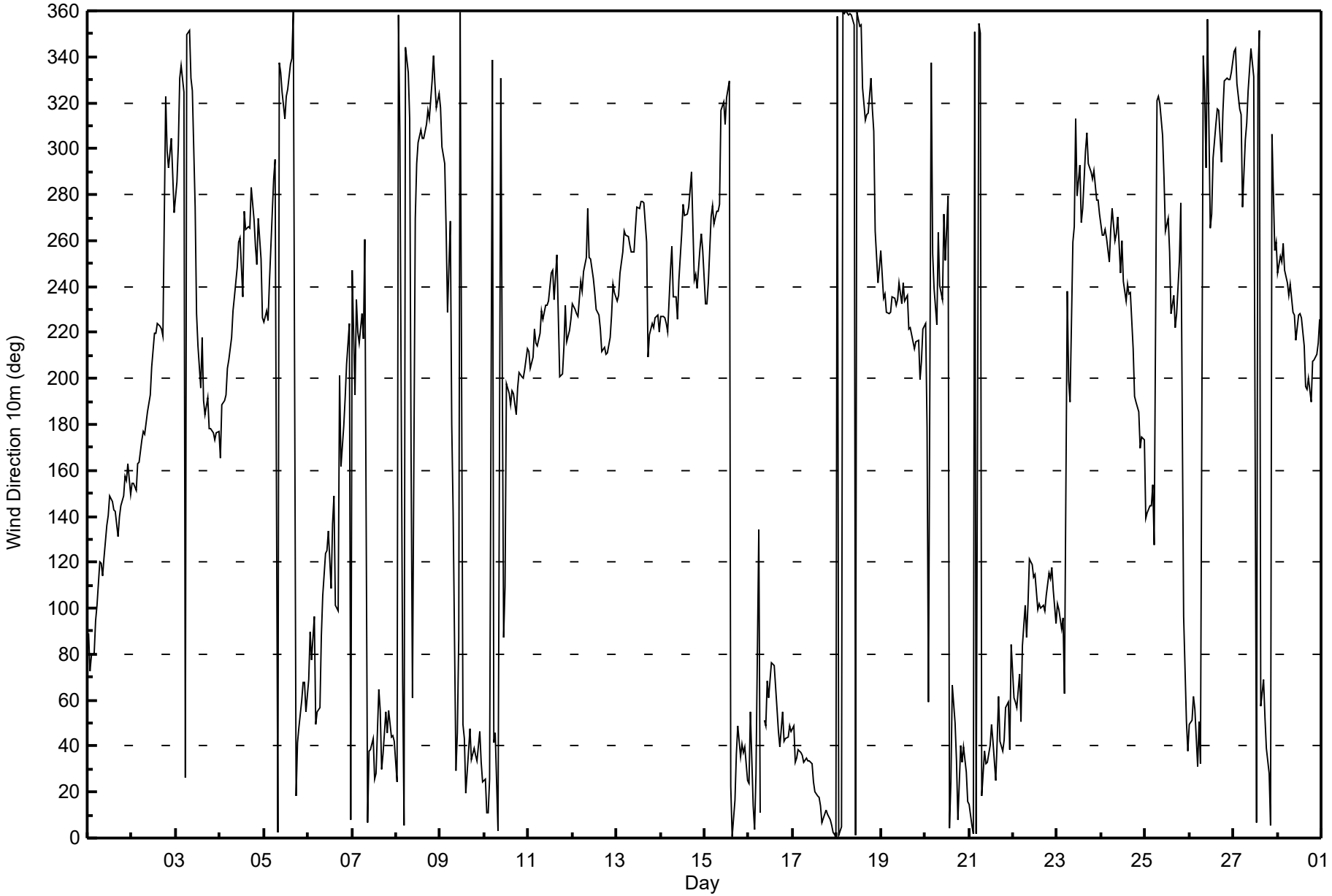
UO - Unstable Operation
All monthly, daily, and diurnal averages have been calculated using vector methods

Wood Buffalo Environmental Association

Hourly Averages

Wind Direction 10m (WD10) - deg

Blackgold - February 2026



Wood Buffalo Environmental Association

Summary of Hour Standard Deviations

Wind Direction 10m (WD10) - deg

Blackgold - February 2026

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0

Maximum Value: 96 deg on Feb 10 09:00

Minimum Value: 7 deg on Feb 19 00:00

Percentiles: P_1 = 10 P_{10} = 13 Q_1 = 16 Median = 22 Q_3 = 28 P_{90} = 40 P_{99} = 85

Hours in Service:	672
Hours of Data:	671
Hours of Missing Data:	1
Hours of Calibration:	0
Percent Operational Time:	99.9

Day	Hourly Period Ending At (MST)																								Daily
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Maximum
1-Feb	22	18	24	15	20	21	16	13	15	15	14	15	15	16	16	18	12	13	14	16	15	16	15	14	24
2-Feb	16	14	14	14	13	13	13	13	16	16	18	23	22	22	26	23	23	28	47	41	17	24	18	32	47
3-Feb	29	24	24	25	39	46	33	29	55	35	40	47	35	34	30	27	18	20	19	15	14	15	15	14	55
4-Feb	16	24	16	19	18	20	25	31	33	40	37	33	29	34	37	35	41	31	39	41	34	36	42	28	42
5-Feb	27	36	30	54	44	32	18	29	26	26	23	21	22	25	25	24	26	24	30	35	20	20	20	22	54
6-Feb	18	18	19	15	26	20	32	30	24	19	18	16	32	42	27	38	16	47	88	13	18	39	79	36	88
7-Feb	61	20	43	23	26	25	25	62	80	24	28	36	34	31	36	23	23	23	21	23	31	21	25	22	80
8-Feb	22	24	21	50	44	39	27	27	69	30	55	19	24	22	21	21	21	22	22	21	23	24	21	22	69
9-Feb	21	18	25	54	50	52	36	45	24	33	81	85	33	34	20	21	24	23	20	23	24	21	20	26	85
10-Feb	21	33	33	57	28	38	56	45	96	42	53	23	91	16	13	15	13	8	9	12	14	16	16	20	96
11-Feb	28	22	25	30	30	26	28	32	31	31	28	29	32	34	32	34	31	13	15	25	30	25	27	27	34
12-Feb	28	27	30	30	33	35	29	33	26	36	26	22	19	24	20	21	20	20	17	19	20	19	15	13	36
13-Feb	15	15	14	15	13	12	12	14	14	15	13	15	16	16	15	16	17	19	16	18	17	18	15	16	19
14-Feb	13	12	15	17	17	30	35	24	15	17	22	17	13	13	16	13	16	13	23	18	16	13	15	16	35
15-Feb	16	13	14	18	19	31	10	13	17	22	24	31	25	25	29	23	25	21	19	17	19	16	20	23	31
16-Feb	20	55	13	48	43	63	27	UO	15	22	27	25	27	28	31	24	24	18	19	17	16	19	19	20	63
17-Feb	21	20	23	21	21	22	21	21	22	23	24	23	25	25	24	25	23	26	26	26	26	28	25	24	28
18-Feb	23	25	24	22	23	24	22	24	25	22	24	31	27	26	36	22	22	20	18	19	16	31	8	7	36
19-Feb	12	15	12	13	15	15	13	15	14	14	17	19	22	20	20	23	20	18	13	14	18	24	21	18	24
20-Feb	21	40	70	80	14	32	24	44	39	35	22	43	33	80	40	51	29	26	35	79	21	23	16	39	80
21-Feb	29	20	19	16	25	20	28	24	19	26	26	27	28	32	29	26	22	25	22	20	18	24	18	32	32
22-Feb	20	17	17	15	16	19	15	12	17	16	16	14	20	20	18	15	15	14	14	14	12	13	14	12	20
23-Feb	16	15	13	16	26	85	19	17	27	14	33	63	30	32	15	19	20	11	9	11	15	11	8	9	85
24-Feb	12	13	10	12	13	12	10	20	13	16	23	25	20	23	21	20	24	18	14	12	12	13	13	15	25
25-Feb	13	13	17	13	21	80	39	23	24	28	21	28	20	19	22	22	19	47	48	27	88	59	52	19	88
26-Feb	23	22	27	31	26	24	53	39	35	90	58	87	15	18	22	22	23	19	23	21	22	22	22	21	90
27-Feb	21	25	26	23	25	14	15	13	21	40	39	53	35	51	55	65	25	15	13	16	20	55	24	11	65
28-Feb	11	14	10	15	11	37	36	11	11	17	22	21	21	23	25	22	18	18	18	22	20	20	19	18	37
	61	55	70	80	50	85	56	62	96	90	81	87	91	80	55	65	41	47	88	79	88	59	79	39	
	Diurnal Maximum																								

UO - Unstable Operation

ELECTRONIC TRANSFER SYSTEM
AIRDATA
SUBMISSION REPORT

March 31, 2026
8:57:43 AM
Request # 4915692

Submitted by: EN6138
Submission Date: Mar 31, 2026 8:57:37 AM

File Type	File Name
Calibration Report	CAL-WBEA-202602.pdf

Total Number of Files: 1

*** End of Report ***

Freedom To Create. Spirit To Achieve.

ELECTRONIC TRANSFER SYSTEM
AIRDATA
SUBMISSION REPORT

March 31, 2026
8:58:33 AM
Request # 4915693

Submitted by: EN6138
Submission Date: Mar 31, 2026 8:58:27 AM

File Type	File Name
Airshed Monitoring Report	WBEA-202602.pdf

Total Number of Files: 1

*** End of Report ***

ELECTRONIC TRANSFER SYSTEM
AIRDATA
SUBMISSION REPORT

March 31, 2026
9:00:19 AM
Request # 4915695

Submitted by: EN6138
Submission Date: Mar 31, 2026 8:59:57 AM

File Type	File Name
Ambient Data	AMB-WBEA-202602-V00.xml

Total Number of Files: 1

*** End of Report ***



End of Report