

Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

August 2026

August 31, 2026

Alberta Environment and Protected Areas
11th Floor, Oxbridge Place
9820-106 Street
Edmonton Alberta T5K 2J6

Subject: **Peace Airshed Zone Association (PAZA)**
August 2026 Ambient Air Quality Monitoring Report

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of August 2026.

The representative of the Person Responsible for this monitoring program is:

Mandeep Dhaliwal, B.Sc., P.Chem.
Program Manager
Box 21135
Grande Prairie, Alberta T8V 6W7
Email: Mandeep@paza.ca
Phone: 403-608-9697

This report was prepared by Dr. Kevin McCullum, P.Eng., and reviewed by Mandeep Dhaliwal. PAZA has retained the services of WSP Canada Inc. to conduct continuous ambient monitoring and Dr. Kevin McCullum, P.Eng. to provide data validation and reporting.

This report is submitted by PAZA on behalf of the industrial member companies to satisfy the requirements of the facility Operating Approvals listed in Table A

The monthly summary report includes the operational summaries and hourly continuous monitoring and monthly passive results. The Milner station is being reported under the PAZA Monthly report.

Continuous Monitoring:

Eight (8) Stations including Henry Pirker (Grande Prairie), Dunes, Smoky Heights, Beaverlodge, Valleyview, Fox Creek, Happy Valley-Portable and Milner.
Detailed Summaries are included in the report.

Calibration and Data Submission:

Monthly report, hourly data and calibration reports for August 2026 were submitted to the ETS data system.

Table A. PAZA members with Facility Operating Approvals

Company	Facility	LSD	EPEA Approval No.
Advantage Oil & Gas Ltd.	Glacier	05-02-076-13-W6	00262479-00-00
Alberta Power (2000) Ltd. (an ATCO company)	Sturgeon	SW-06-069-21-W5	00010283-02-02
ATCO Power Canada	Poplar Hill	11-19-073-08-W6	00067774-01-01
ATCO Power Canada	Valleyview	SW-06-069-21-W5	00147709-01-01
AltaGas Ltd.	Pouce Coupe	03-03-081-13-W6	00247673-00-00
	Gordondale	02-26-068-25-W5	00287474-00-00
Apache Canada Ltd.	House Mountain	01-08-070-10-W5	00010137-02-02
ARC Resources Ltd.	ARC Ante Creek	02-26-068-25-W5	00266694-01-00
Birchcliff Energy Ltd.	Pouce Coupe	03-22-078-12-W6	00252529-00-00
Canadian Natural Resources Limited	Bonanza	11-25-081-11-W6	00000029-01-00
	Progress/Gordondale	01-01-077-10-W6	00010036-02-00
	Gold Creek	13-26-067-05-W6	00010446-02-00
	Teepee Creek	SE-2-074-04-W6	00001635-02-00
	Sturgeon/Valleyview	02-02-069-22-W5	00001633-02-00
Canfor Forest Products	Grande Prairie	SW-23-071-06-W6	00152645-01-00
Conocophillips Canada Energy Partnership	Wembley	06-19-073-08-W6	00000212-01-00
Encana Corporation	Sexsmith	04-08-075-07-W6	00010002-01-00
Enerplus Resources	Pouce Coupe	SW-06-069-21-W5	00001464-02-03
Exshaw Oil Corporation	Spirit River	03-10-077-07-W6	00344521-00-00
Grande Prairie Generation Inc.	Northern Prairie Power Project	04-19-073-08-W6	00238762-00-00
Inception Exploration Ltd.	Gold Creek	03-26-069-05-W6	00335317-00-02
KANATA Energy Group Ltd.	Valhalla	13-21-076-09-W6	00017620-02-02
Long Run Exploration	Eaglesham	01-25-076-01-W6	00241532-00-00
	Kakut	14-12-075-03-W6	00248469-00-00
	Donnelly	06-01-077-21-W5	00000087-02-00
	Puskwaskau	03-26-074-01-W6	00017524-01-00
Longview Oil Corp.	Sunset House	06-22-070-20-W5	00138884-01-00
Milner Power Limited Partnership	H.R. Milner thermal electric power plant	SE-15-058-08-W6	00009814-03-03
NorthRiver Midstream Inc.	Fourth Creek	16-11-082-09-W6	00000263-01-00
	Gordondale	11-26-079-09-W6	00011495-01-01
	Pouce Coupe/Bonanza	03-23-080-13-W6	00070203-01-01
Pembina Pipeline Corporation	Kakwa River	08-13-063-05 W6	00335342-01-00
Penn West Petroleum Ltd.	Tangent	13-29-080-23-W5	00001746-02-00
	Pouce Coupe	16-07-078-11-W6	00000614-01-00
Petrus Resources	Rycroft	08-25-077-06-W6	00011351-02-00
	Spirit River	08-34-077-06-W6	00011096-02-00
Strathcona Resources Ltd.	Jayar Sour Gas Processing Plant	06-08-062-03 W6	03612040-00-00
Suncor Energy Inc.	Progress	07-22-078-09-W6	00011428-02-00
Tidewater Midstream and Infrastructure Ltd.	Pipestone Sour Gas Plant	NW-35-70-9 W6	00403309-00-00
Veresen Energy	Hythe Brainard	11-18-074-12-W6	00010910-02-00
Weyerhaeuser Canada	Grande Prairie Pulp and Wood Plant	01-14-070-05-W6	00000113-02-00

Concentrations in excess of the Clean Air (Maximum Levels) Regulation:

- There were no readings above the 30min TRS AAAQG
- There were 24 readings above the 1hr $PM_{2.5}$ AAAQG and 7 above the 24hr AAAQO
- Two dustfall samples from CST Grande Cache

Summary of readings above the 1hr $PM_{2.5}$ AAAQG (80µg/m³) recorded as follows:

Reference Number	Station	Pollutant	Date	From MST	To MST	Average µg/m³	WS km/h	WD degrees
EDGE00457153	Fox Creek	$PM_{2.5}$	01-Aug-26	11:00	12:00	87.2	8.8	292
EDGE00457153	Fox Creek	$PM_{2.5}$	01-Aug-26	12:00	13:00	82.1	6.0	318
EDGE00457153	Fox Creek	$PM_{2.5}$	01-Aug-26	13:00	14:00	80.9	5.8	327
EDGE00457153	Fox Creek	$PM_{2.5}$	22-Aug-26	17:00	18:00	96.0	0.5	136
EDGE00457154	Happy Valley	$PM_{2.5}$	01-Aug-26	00:00	01:00	82.5	11.1	165
EDGE00457154	Happy Valley	$PM_{2.5}$	01-Aug-26	01:00	02:00	82.0	6.0	102
EDGE00457154	Happy Valley	$PM_{2.5}$	01-Aug-26	02:00	03:00	82.5	3.8	343
EDGE00457154	Happy Valley	$PM_{2.5}$	28-Aug-26	10:00	11:00	125.9	22.5	281
EDGE00457154	Happy Valley	$PM_{2.5}$	28-Aug-26	11:00	12:00	112.4	20.1	270
EDGE00457154	Happy Valley	$PM_{2.5}$	28-Aug-26	12:00	13:00	106.7	19.8	266
EDGE00457154	Happy Valley	$PM_{2.5}$	28-Aug-26	13:00	14:00	87.1	18.5	284
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	01:00	02:00	81.7	1.6	312
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	02:00	03:00	86.0	3.0	270
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	03:00	04:00	89.7	3.1	275
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	04:00	05:00	89.4	3.2	277
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	05:00	06:00	89.7	3.5	283
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	06:00	07:00	89.1	1.6	255
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	07:00	08:00	86.4	1.2	217
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	08:00	09:00	84.8	3.3	248
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	09:00	10:00	91.1	1.2	171
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	10:00	11:00	88.9	2.1	94
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	11:00	12:00	83.9	1.0	96
EDGE00457973	Milner	$PM_{2.5}$	22-Aug-26	16:00	17:00	83.8	4.6	253

Readings above the 24hr $PM_{2.5}$ AAAQO (29µg/m³) recorded as follows:

Reference Number	Site	Pollutant	Date	Average µg/m³	WS km/hr	WD degrees
EDGE00457151	Henry Pirker	$PM_{2.5}$	01-Aug-26	37.5	9.2	264
EDGE00457153	Fox Creek	$PM_{2.5}$	01-Aug-26	35.8	6.5	261
EDGE00457153	Fox Creek	$PM_{2.5}$	22-Aug-26	35.6	3.8	161
EDGE00457154	Happy Valley	$PM_{2.5}$	01-Aug-26	31.7	11.1	260
EDGE00457154	Happy Valley	$PM_{2.5}$	28-Aug-26	36.4	15.2	273
EDGE00457041	Milner	$PM_{2.5}$	01-Aug-26	55.4	6.3	255
EDGE00457973	Milner	$PM_{2.5}$	22-Aug-26	41.0	3.6	265

- Two readings above industrial dustfall guidelines (158mg/100cm^2/30d) at Flood Creek (167.2 mg/100cm^2/30d) and Wanyandie Flats (299.0 mg/100cm^2/30d)

Operational times less than 90 percent

All equipment operated above 90% for the month

Air Incidents

None to report

AEPA audit performed

None to report

Deviations from Authorized Monitoring Methods

None to report

Passive Monitoring

54 Stations throughout the PAZA zone

- Passive sample analyses were performed by Bureau Veritas Laboratories

There were 20 duplicates sampled in the month of August:

- Eight SO_2 duplicates located at Spirit River, Poplar, Wanham, Kinuso, Duvernay 3, Kakwa 1, Milner Powerline, Jayar3 Bone Yard
  - RPD ranging from 0% to 13% (no fails)
  - Duplicate sample at Milner Powerline were both <0.1ppb
- One O_3 duplicate at Crooked Creek
  - RPD of 3% (no fail)
- Seven NO_2 duplicates at Flyingshot, McLennan, Peavine, East Prairie, Kakwa 2, Milner Pipeline, Jayar5 Camp
  - RPD ranging from 6% to 25% (no fails)
- Four H_2S duplicates at Girouxville 4, Duvernay 3, Kakwa 3, Jayar1 Plant
  - RPD ranging from 0% to 3% (no fails)

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall at Milner
  - Total dustfall ranged from 26.0 to 109.6 mg/100cm^2/30day
  - RPD was 14 to 67% (one fail, 36.2 to 18.1 mg/100cm^2/30d)
- Ten Stations collected Total Dustfall and Fixed Dustfall at CST
  - Total dustfall ranged from 15.4 to 299.0 mg/100cm^2/30day
  - Two readings above industrial dustfall guidelines (158mg/100cm^2/30d) at Flood Creek (167.2 mg/100cm^2/30d) and Wanyandie Flats (299.0 mg/100cm^2/30d)

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.

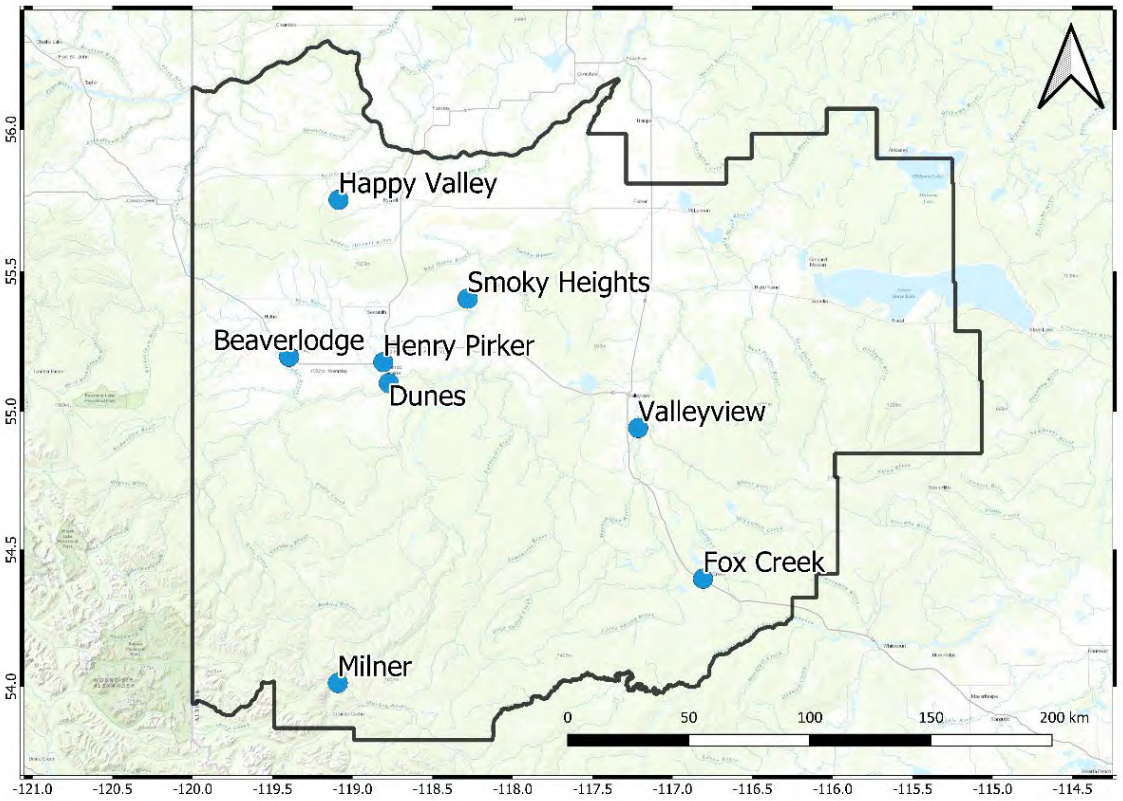


Mandeep Dhaliwal, B.Sc., P.Chem.
Program Manager

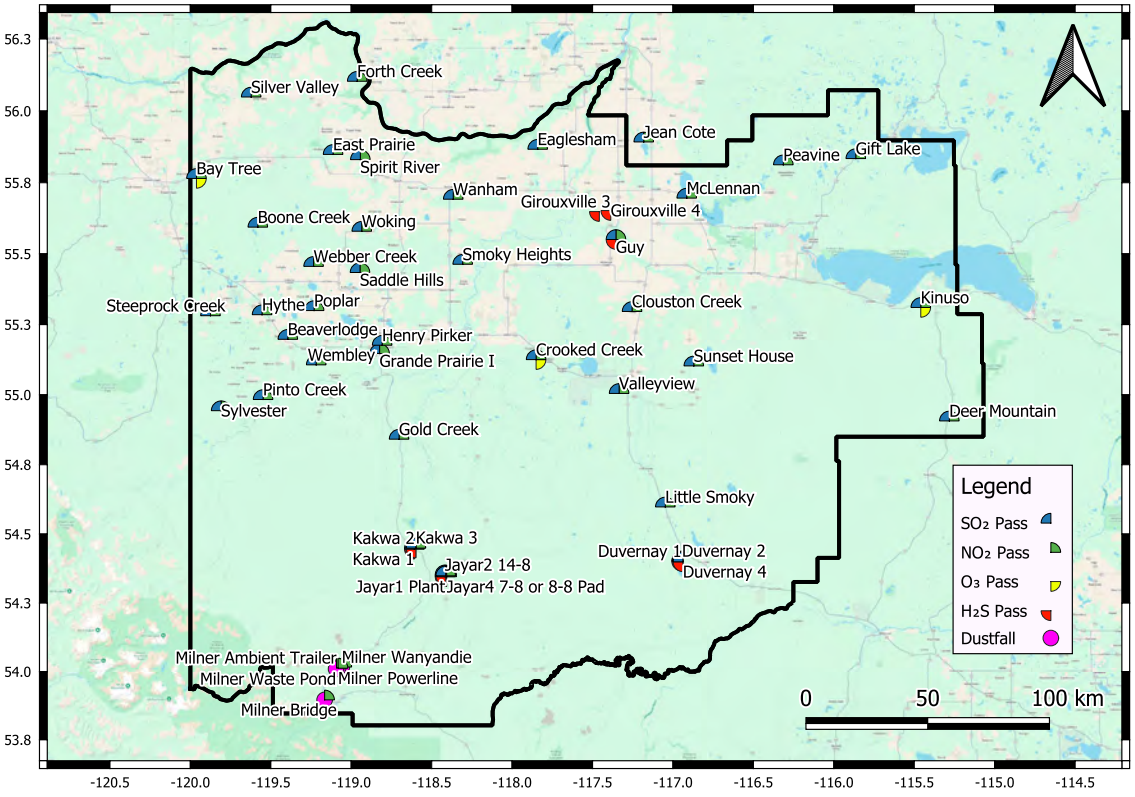
TABLE OF CONTENTS1 AUGUST 2026 MONTHLY STATION SUMMARIES 2

1.1 Beaverlodge Air Monitoring Station 2
1.2 Dunes Air Monitoring Station 2
1.3 Grande Prairie - Henry Pirker Air Monitoring Station 3
1.4 Smoky Heights Air Monitoring Station 3
1.5 Valleyview Air Monitoring Station 4
1.6 Fox Creek Air Monitoring Station 4
1.7 Happy Valley Air Monitoring Station 5
1.8 Milner Air Monitoring Station 5
2 BEAVERLODGE CHARTS 6
3 DUNES CHARTS 16
4 GRANDE PRAIRIE - HENRY PIRKER CHARTS 25
5 SMOKY HEIGHTS CHARTS 39
6 VALLEYVIEW CHARTS 47
7 FOX CREEK CHARTS 54
8 HAPPY VALLEY (PORTABLE) CHARTS 64
9 MILNER CHARTS 77
10 PASSIVE MONITORING DATA 84
11 DUSTFALL MONITORING DATA 93
12 END OF REPORT 95

PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 August 2026 Monthly Station Summaries

The following summaries are for the equipment and data results from the continuous ambient work

1.1 Beaverlodge Air Monitoring Station

PAZA - August 2026 Beaverlodge Station Report

	August				1-hour			24-hour			Exceedance				Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	0.6	0.0	94.4%	99.2%	16.0	-	Aug-20 07:00	1.8	-	Aug-15	-	-	-	-	Aug 01, 2026
NO_2 (ppb)	2.4	0.2	94.4%	99.2%	10.7	159	Aug-22 06:00	4.1	-	Aug-26	0	-	-	-	Aug 01, 2026
NO_X (ppb)	3.1	0.3	94.4%	99.2%	23.8	-	Aug-20 07:00	5.4	-	Aug-25	-	-	-	-	Aug 01, 2026
O_3 (ppb)	22.7	2.1	95.0%	99.6%	50.2	76	Aug-26 18:00	32.2	-	Aug-27	0	-	-	-	Aug 01, 2026
$PM_{2.5}$ (µg/m³)	8.3	0.4	99.5%	99.6%	78.5	80	Aug-01 04:00	27.3	29	Aug-01	0	-	0	-	Aug 04, 2026
SO_2 (ppb)	0.4	0.0	94.9%	99.6%	12.4	172	Aug-11 17:00	2.2	48	Aug-11	0	-	0	0	Aug 04, 2026

	Average	Minimum	Valid	Operational	Maximum
Temp (°C)	16.4	6.8	99.6%	99.6%	31.0
RH (%)	66.8	22.5	99.6%	99.6%	100.1
WS (km/hr)	8.7	0.1	99.6%	99.6%	32.1
WD (deg)	272	3.2	99.6%	99.6%	359.7

Note: Valid hours must be greater than 75%
Operational hours must be greater than 90%

Average Wind Direction 272 W

Update Summary:

Parameter	Make	Model	Equipment summary
$NO/NO_2/NO_X$	Thermo	42iQ	Aug 1, AIC near limit, additional span check performed, still at limit, calibration performed and target adjusted (2hrs); Aug 28, communication loss of data, 3hrs removed; Aug 30, AIC over limit, additional check also over limit, calibration flagged for early Sept. spans noted as consistent through month, limit needs adjusting, no additional data removed (1hr)
O_3	Thermo	49iQ	Aug 28, communication loss of data, 3hrs removed
$PM_{2.5}$	API	T640	Aug 28, communication loss of data, 3hrs removed; no readings above AAAQG or AAAQO
SO_2	Thermo	43i-TLE	Aug 28, communication loss of data, 3hrs removed
Met Equip	RM Young	05305VK	Aug 28, communication loss of data, 3hrs removed

1.2 Dunes Air Monitoring Station

PAZA - August 2026 Dunes Station Report

	August				30min / 1-hour			24-hour			Exceedance				Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
$PM_{2.5}$ (µg/m³)	6.3	0.0	97.7%	98.1%	66.9	80	Aug-01 01:00	25.7	29	Aug-01	0	-	0	-	Aug-06-2026
SO_2 (ppb)	0.3	0.0	93.6%	98.1%	8.0	172	Aug-04 15:00	1.3	48	Aug-04	0	-	0	0	Aug-06-2026
TRS (ppb)	0.5	0.0	93.6%	98.1%	1.8	5	Aug-07 05:00	0.8	-	Aug-15	0	-	-	-	Aug-06-2026

	Average	Minimum	Valid	Operational	Maximum
Temp (°C)	16.0	4.1	98.1%	98.1%	30.1
RH (%)	70.3	25.6	98.1%	98.1%	99.9
WS (km/hr)	4.2	0.1	98.1%	98.1%	23.5
WD (deg)	265	0.6	98.1%	98.1%	356.8

Note: Valid hours must be greater than 75%
Operational hours must be greater than 90%

Average Wind Direction 265 W

Update Summary:

Parameter	Make	Model	Equipment summary
$PM_{2.5}$	Thermo	SHARP 5030	Aug 22-23, communication failure, 14hrs removed; no readings above AAAQG or AAAQO
SO_2	Thermo	43i	Aug 22-23, communication failure, 14hrs removed
TRS	Thermo	43i	Aug 22-23, communication failure, 14hrs removed
Met Equip	Gil/RMYoung	MetPak/RMY86004	Aug 22-23, communication failure, 14hrs removed

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - August 2026 Henry Pirker Station Report

Parameter	August Average	Minimum	Valid	Operational	1-hour Max	1-hour Objective	1-hour Max Day and Time	8-hour / 24-hour Max	8-hour / 24-hour Objective	8-hour / 24-hour Max Day	Exceedance 1hr	Exceedance 8hr	Exceedance 24hr	Exceedance 30d	Calibration Date
NO (ppb)	1.5	0.0	95.0%	99.9%	25.7	-	Aug-21 08:00	4.3	-	Aug-20	-	-	-	-	Aug 05, 2026
NO_2 (ppb)	4.5	0.6	95.0%	99.9%	17.6	159	Aug-26 09:00	7.8	-	Aug-26	0	-	-	-	Aug 05, 2026
NO_X (ppb)	6.0	0.9	95.0%	99.9%	37.7	-	Aug-21 08:00	10.5	-	Aug-25	-	-	-	-	Aug 05, 2026
O_3 (ppb)	20.1	0.1	95.3%	100.0%	54.1	76	Aug-26 15:00	31.1	-	Aug-06	0	-	-	-	Aug 05, 2026
$PM_{2.5}$ (µg/m³)	9.0	0.4	99.9%	100.0%	79.7	80	Aug-01 03:00	**37.5**	**29**	**Aug-01**	0	-	**1**	-	Aug 07, 2026
SO_2 (ppb)	0.1	0.0	95.3%	100.0%	4.8	172	Aug-16 06:00	0.5	48	Aug-16	0	-	0	0	Aug 05, 2026
H_2S (ppb)	0.2	0.0	95.3%	100.0%	1.3	10	Aug-20 08:00	0.3	3	Aug-11	0	-	0	-	Aug 07, 2026
CH_4 (ppm)	2.2	2.0	95.3%	100.0%	3.7	-	Aug-29 07:00	2.3	-	Aug-22	-	-	-	-	Aug 10, 2026
THC (ppm)	2.2	2.0	95.3%	100.0%	3.7	-	Aug-29 07:00	2.3	-	Aug-22	-	-	-	-	Aug 10, 2026
NMHC (ppm)	0.0	0.0	95.3%	100.0%	0.2	-	Aug-05 10:00	0.0	-	Aug-05	-	-	-	-	Aug 10, 2026
CO (ppm)	0.2	0.1	95.4%	100.0%	0.7	13	Aug-28 20:00	**0.3**	**5**	**Aug-28**	0	**0**	-	-	Aug 10, 2026

	Average	Minimum	Valid	Operational	Maximum		
Temp (°C)	17.0	5.5	100.0%	100.0%	29.8		Jul 27, 2026
RH (%)	62.9	27.6	100.0%	100.0%	89.3		Jul 27, 2026
SR (W/m²)	173.5	0.0	100.0%	100.0%	815.6		Jul 27, 2026
WS (km/hr)	5.4	0.1	100.0%	100.0%	23.3		Jul 27, 2026
WD (deg)	261	0.4	100.0%	100.0%	359.5	Average Wind Direction 261 W	Jul 27, 2026

Note: Valid hours must be greater than 75%
Operational hours must be greater than 90%

Update Summary:

Parameter	Make	Model	Equipment summary
$NO/NO_2/NO_X$	Thermo	42i	Aug 29, AIC came in at limit, additional manual AIC run to verify ok (1hr)
O_3	TECO	49i	No operational issues noted during the month
$PM_{2.5}$	API	T640	No operational issues noted during the month; no readings above AAAQG and 1x24hr reading above AAAQO
SO_2	Thermo	43i-TLE	No operational issues noted during the month
H_2S	TEI	450i	No operational issues noted during the month
$THC/CH_4/NMHC$	MOCON	9000	No operational issues noted during the month
CO	Thermo	48i-TLE	No operational issues noted during the month
Met Equip	MetOne	50.5	No operational issues noted during the month

1.4 Smoky Heights Air Monitoring Station

PAZA - August 2026 Smoky Heights Station Report

Parameter	August Average	Minimum	Valid	Operational	30min / 1-hour Max	30min / 1-hour Objective	30min / 1-hour Max Day and Time	24-hour Max	24-hour Objective	24-hour Max Day	Exceedance 1hr	Exceedance 8hr	Exceedance 24hr	Exceedance 30d	Calibration Date
$PM_{2.5}$ (µg/m³)	7.3	0.0	99.5%	99.6%	54.5	80	Aug-18 22:00	23.3	29	Aug-01	0	-	0	-	Aug 12, 2026
SO_2 (ppb)	0.2	0.0	94.9%	99.5%	2.8	172	Aug-23 10:00	0.4	48	Aug-24	0	-	0	0	Aug 12, 2026
TRS (ppb)	0.1	0.0	94.8%	99.5%	0.7	5	Aug-20 00:00	0.3	-	Aug-22	0	-	-	-	Aug 12, 2026

	Average	Minimum	Valid	Operational	Maximum		
Temp (°C)	15.6	3.4	99.6%	99.6%	28.5		
WS (km/hr)	8.3	0.3	99.6%	99.6%	36.2		Jul 02, 2026
WD (deg)	261	0.2	99.6%	99.6%	359.5	Average Wind Direction 261 WNW	Jul 02, 2026

Note: Valid hours must be greater than 75%
Operational hours must be greater than 90%

Update Summary:

Parameter	Make	Model	Equipment summary
$PM_{2.5}$	Sharp	5030	Aug 2, data communication fail, 3hrs removed; no readings above AAAQG or AAAQO
SO_2	TECO	43i	Aug 2, data communication fail, 3hrs removed; Aug 28 manual AIC triggered to check, ok no issues (1hr)
TRS	TEI	43I APSAA	Aug 2, data communication fail, 3hrs removed; Aug 28 AIC came in at target, manual AIC triggered to check, also at target, flagged to watch (1hr)
Met Equip	MetOne	50.5	Aug 2, data communication fail, 3hrs removed

1.5 Valleyview Air Monitoring Station

PAZA - August 2026 Valleyview Station Report

Parameter	August Average	Minimum	Valid	Operational	1-hour Max	1-hour Objective	1-hour Max Day and Time	24-hour Max	24-hour Objective	24-hour Max Day	Exceedance 1hr	Exceedance 8hr	Exceedance 24hr	Exceedance 30d	Calibration Date
SO_2 (ppb)	0.1	0.0	95.4%	100.0%	1.6	172	Aug-19 17:00	0.3	48	Aug-19	0	-	0	0	Aug 11, 2026
H_2S (ppb)	0.2	0.0	95.3%	100.0%	1.7	10	Aug-02 21:00	0.4	3	Aug-04	0	-	0	-	Aug 11, 2026

	Average	Minimum	Valid	Operational	Maximum
Temp (°C)	16.1	4.0	100.0%	100.0%	31.1
RH (%)	77.0	30.2	100.0%	100.0%	100.2
WS (km/hr)	3.8	0.1	100.0%	100.0%	29.1
WD (deg)	274	0.0	100.0%	100.0%	360.0

Note: Valid hours must be greater than 75%
Operational hours must be greater than 90%

Average Wind Direction 274 NW

Update Summary:

Parameter	Make	Model	Equipment summary
SO_2	TEI	43i-APSCB	No operational issues noted during the month
H_2S	TEI	450i-APHAA / 43C	No operational issues noted during the month
Met Equip	RMYoung	RMY86004	No operational issues noted during the month

1.6 Fox Creek Air Monitoring Station

PAZA - August 2026 Fox Creek Station Report

Parameter	August Average	Minimum	Valid	Operational	1-hour Max	1-hour Objective	1-hour Max Day and Time	8-hour / 24-hour Max	8-hour / 24-hour Objective	8-hour / 24-hour Max Day	Exceedance 1hr	Exceedance 8hr	Exceedance 24hr	Exceedance 30d	Calibration Date
NO (ppb)	4.4	0.0	93.2%	97.7%	40.2	-	Aug-31 06:00	9.6	-	Aug-25	-	-	-	-	**Aug 17, 2026**
NO_2 (ppb)	4.3	0.2	93.2%	97.7%	30.2	159	Aug-25 21:00	10.2	-	Aug-26	0	-	-	-	**Aug 17, 2026**
NO_X (ppb)	8.9	0.0	93.2%	97.7%	54.0	-	Aug-31 06:00	17.7	-	Aug-25	-	-	-	-	**Aug 17, 2026**
O_3 (ppb)	17.2	0.0	94.9%	99.5%	42.7	76	Aug-06 00:00	25.5	-	Aug-06	0	-	-	-	**Aug 17, 2026**
$PM_{2.5}$ (µg/m³)	9.9	0.8	99.9%	100.0%	**96.0**	**80**	**Aug-22 18:00**	**35.8**	**29**	**Aug-01**	**4**	-	**2**	-	**Aug 17, 2026**
SO_2 (ppb)	0.2	0.0	94.8%	99.5%	11.2	172	Aug-04 07:00	1.3	48	Aug-04	0	-	0	0	**Aug 17, 2026**
H_2S (ppb)	0.2	0.0	85.6%	90.1%	1.0	10	Aug-27 20:00	0.3	3	Aug-28	0	-	0	-	**Aug 18, 2026**

	Average	Minimum	Valid	Operational	Maximum	
Temp (°C)	16.0	2.6	100.0%	100.0%	30.2	**Jul 20, 2026**
WS (km/hr)	4.5	0.3	100.0%	100.0%	23.6	**Jul 20, 2026**
WD (deg)	252	0.4	100.0%	100.0%	358.6	**Jul 20, 2026**

Note: Valid hours must be greater than 75%
Operational hours must be greater than 90%

Average Wind Direction 252 WSW

Update Summary:

Parameter	Make	Model	Equipment summary
$NO/NO_2/NO_X$	Thermo	42IQ	Aug 15, manual span check triggered to check operation, no issues (2hrs); Aug 28, data flatlined until manual AIC trigger (12hrs not valid, 1hr maintenance); Aug 29, AIC failed, manual check ran and passed ok (2hrs)
O_3	TECO	S	Aug 1, 22, 27, manual span check triggered to check operation, no issues (4hrs)
$PM_{2.5}$	API	T640	No operational issues noted during the month, 4x1hr readings above AAAQG and 2x24hr readings above AAAQO
SO_2	TEI	43I-TLE	Aug 15, span failed, manual check also failed (2hrs), perm tube suspected cause; Aug 17 verified perm tube was cause of fail during calibration; Aug 28 & 29, manual span triggered to check operation, no issues (2hrs)
H_2S	TEI	450i	Aug 1, failed daily AIC, manual check performed ok (1hr); Aug 22, failed daily AIC, triggered manual AIC, failed also, Aug 23, failed daily AIC, removal calibration failed, all data back to Aug 21 removed as suspect (56hrs), install calibration Aug 23 replaced perm tube and SOX scrubber (6hrs); Aug 27, failed daily AIC, manual check performed also failed, performed removal calibration which passed, installed different perm tube (11hrs); Aug 29-31, span out due to perm tube settling.
Met Equip	MetOne	50.5	No operational issues noted during the month

1.7 Happy Valley Air Monitoring Station

PAZA - August 2026 Happy Valley Station Report

Parameter	August Average	Minimum	Valid	30min / 1-hour Operational	Max	Objective	Max Day and Time	24-hour Max	Objective	Max Day	Exceedance 1hr	8hr	24hr	30d	Calibration Date
NO (ppb)	0.6	0.0	95.2%	100.0%	14.2	-	Aug-20 00:00	1.6	-	Aug-08	-	-	-	-	Aug 27, 2026
NO_2 (ppb)	2.3	0.4	95.2%	100.0%	14.3	159	Aug-01 04:00	4.0	-	Aug-01	0	-	-	-	Aug 27, 2026
NO_X (ppb)	2.9	0.4	95.2%	100.0%	19.4	-	Aug-20 00:00	5.2	-	Aug-08	-	-	-	-	Aug 27, 2026
O_3 (ppb)	20.2	0.2	95.3%	100.0%	47.5	76	Aug-05 22:00	27.1	-	Aug-06	0	-	-	-	Aug 27, 2026
$PM_{2.5}$ (µg/m³)	9.6	0.4	99.7%	100.0%	**125.9**	**80**	**Aug-28 11:00**	**36.4**	**29**	**Aug-28**	**7**	-	**2**	-	Aug 28, 2026
SO_2 (ppb)	0.4	0.0	95.3%	100.0%	24.2	172	Aug-08 18:00	1.6	48	Aug-08	0	-	0	0	Aug 27, 2026
TRS (ppb)	0.6	0.2	95.3%	100.0%	2.4	5	Aug-19 23:00	0.9	-	Aug-26	0	-	-	-	Aug 28, 2026
CH4 (ppm)	2.0	1.9	95.3%	100.0%	2.9	-	Aug-21 04:00	2.1	-	Aug-15	-	-	-	-	Aug 28, 2026
THC (ppm)	2.1	1.9	95.3%	100.0%	4.4	-	Aug-21 04:00	2.2	-	Aug-21	-	-	-	-	Aug 28, 2026
NMHC (ppm)	0.0	0.0	95.3%	100.0%	1.5	-	Aug-21 04:00	0.1	-	Aug-21	-	-	-	-	Aug 28, 2026

	Average	Minimum	Valid	Operational	Maximum
Temp (°C)	15.6	3.9	100.0%	100.0%	30.0
WS (km/hr)	8.3	0.3	99.9%	99.9%	24.3
WD (deg)	260	0.6	99.9%	99.9%	353.6

Note: Valid hours must be greater than 75%
Operational hours must be greater than 90%

Average Wind Direction 260 W

Update Summary:

Parameter	Make	Model	Equipment summary
$NO/NO_2/NO_X$	TEI	42i	No operational issues noted during the month
O_3	TEI	49I	No operational issues noted during the month
$PM_{2.5}$	API	T640	No operational issues noted during the month; 7x1hr readings above AAAQG and 2x24hr readings above AAAQO
SO_2	TEI	43I	No operational issues noted during the month
TRS	TEI	43I	No operational issues noted during the month
$THC/CH_4/NMHC$	TEI	55i	No operational issues noted during the month
Met Equip	MetOne	50.5	No operational issues noted during the month

1.8 Milner Air Monitoring Station

PAZA - August 2026 Milner Station Report

Parameter	August Average	Minimum	Valid	Operational	1-hour Max	Objective	Max Day and Time	24-hour Max	Objective	Max Day	Exceedance 1hr	8hr	24hr	30d	Calibration Date
NO (ppb)	0.5	0.0	95.2%	100.0%	23.3	-	Aug-31 08:00	2.7	-	Aug-31	-	-	-	-	Aug 19, 2026
NO_2 (ppb)	1.2	0.0	95.2%	100.0%	7.7	159	Aug-30 04:00	2.1	-	Aug-27	0	-	-	-	Aug 19, 2026
NO_X (ppb)	1.7	0.0	95.2%	100.0%	28.1	-	Aug-31 08:00	4.4	-	Aug-31	-	-	-	-	Aug 19, 2026
$PM_{2.5}$ (µg/m³)	8.5	0.2	99.9%	100.0%	**91.1**	**80**	**Aug-01 10:00**	**55.4**	**29**	**Aug-01**	**12**	-	**2**	-	Aug 19, 2026

	Average	Minimum	Valid	Operational	Maximum
WS (km/hr)	5.6	0.2	100.0%	100.0%	33.7
WD (deg)	249	1.1	100.0%	100.0%	358.1

Note: Valid hours must be greater than 75%
Operational hours must be greater than 90%

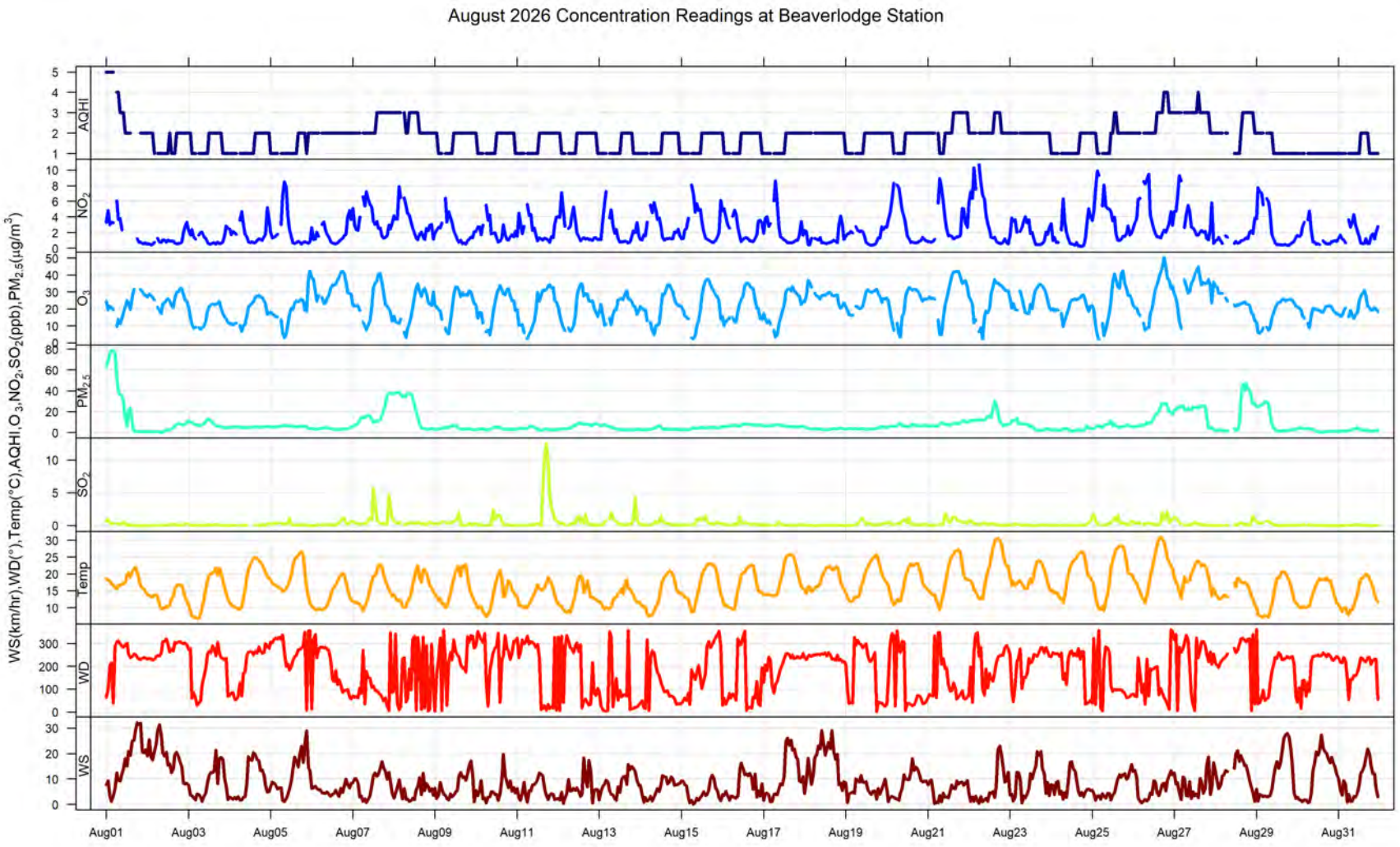
Average Wind Direction 249 WSW

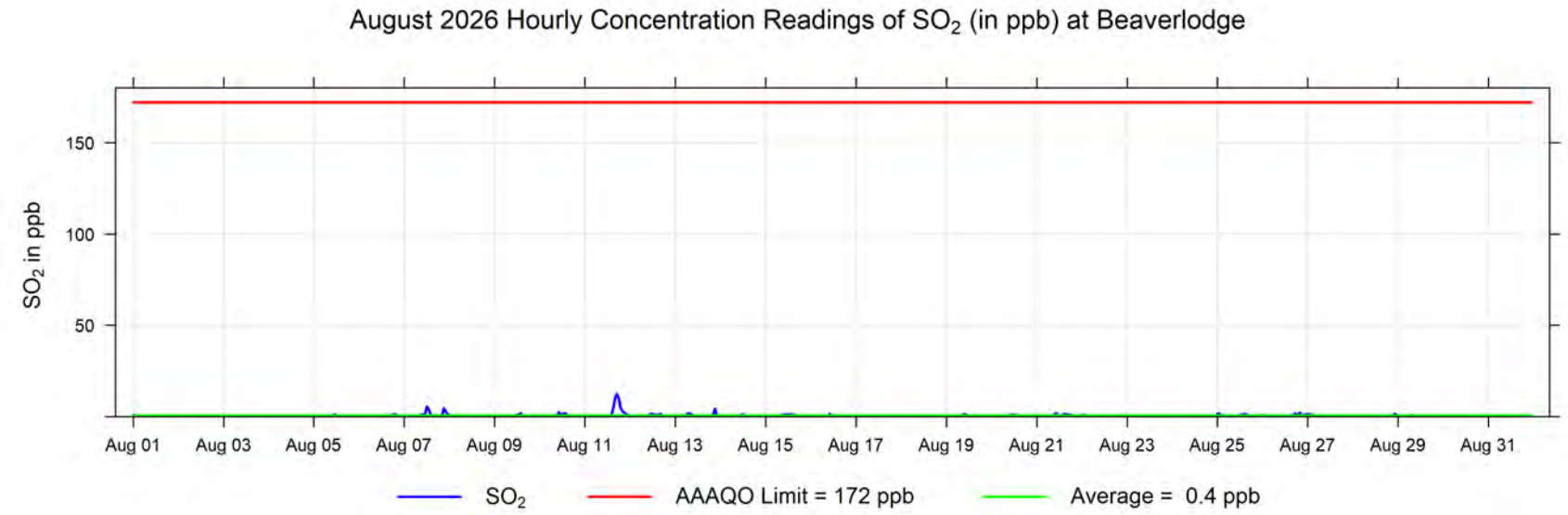
Update Summary:

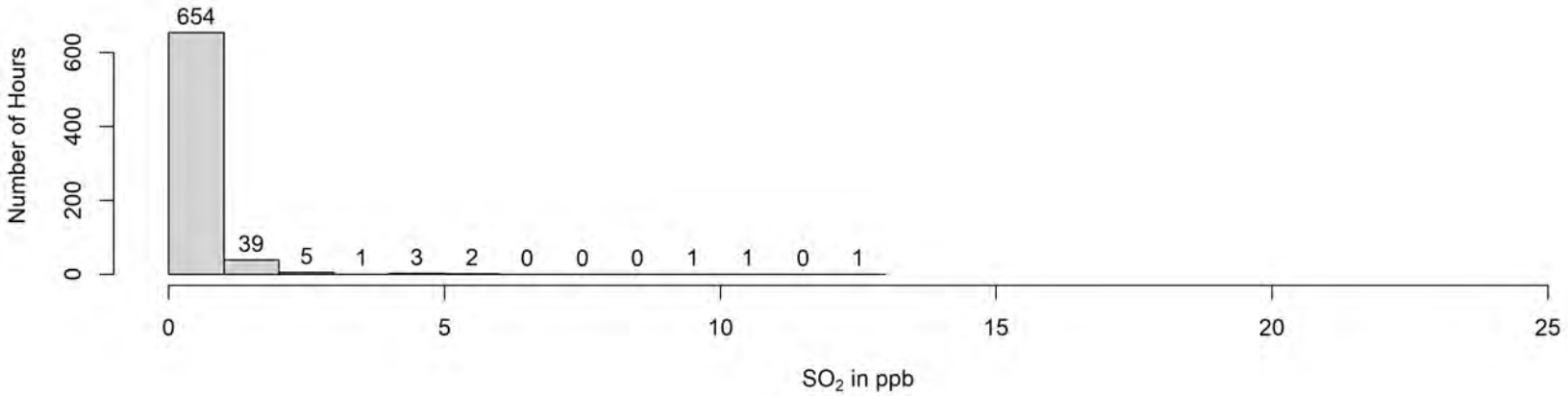
Parameter	Make	Model	Equipment summary
$NO/NO_2/NO_X$	Thermo	42i	No operational issues noted during the month
$PM_{2.5}$	API	T640	No operational issues noted during the month; 12x1hr readings above AAAQG and 2x24hr readings above AAAQO
Met Equip	MetOne	50.5	No operational issues noted during the month

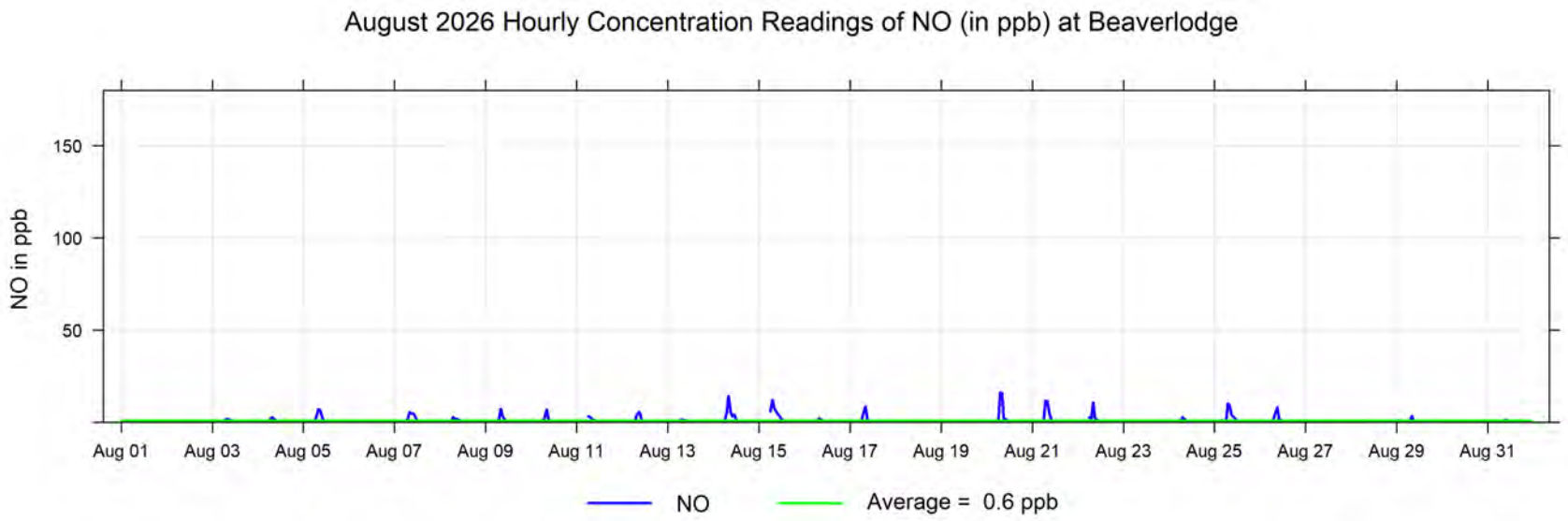
2 Beaverlodge Charts

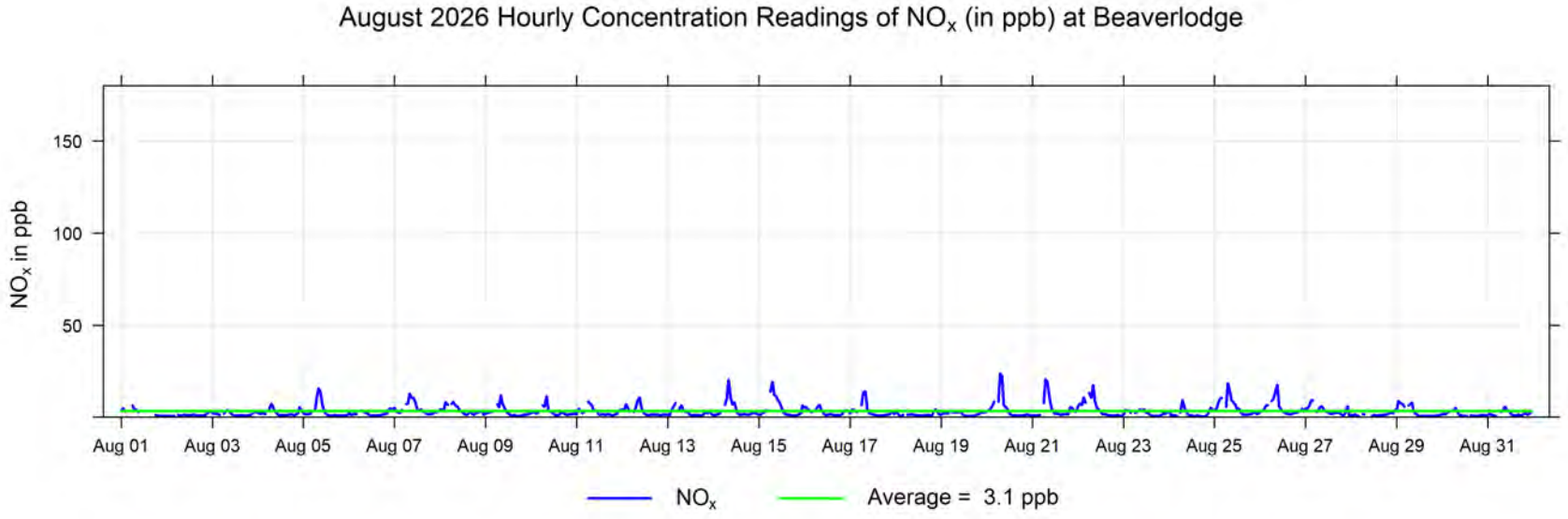
The following pages include the charts and histograms for Beaverlodge Station

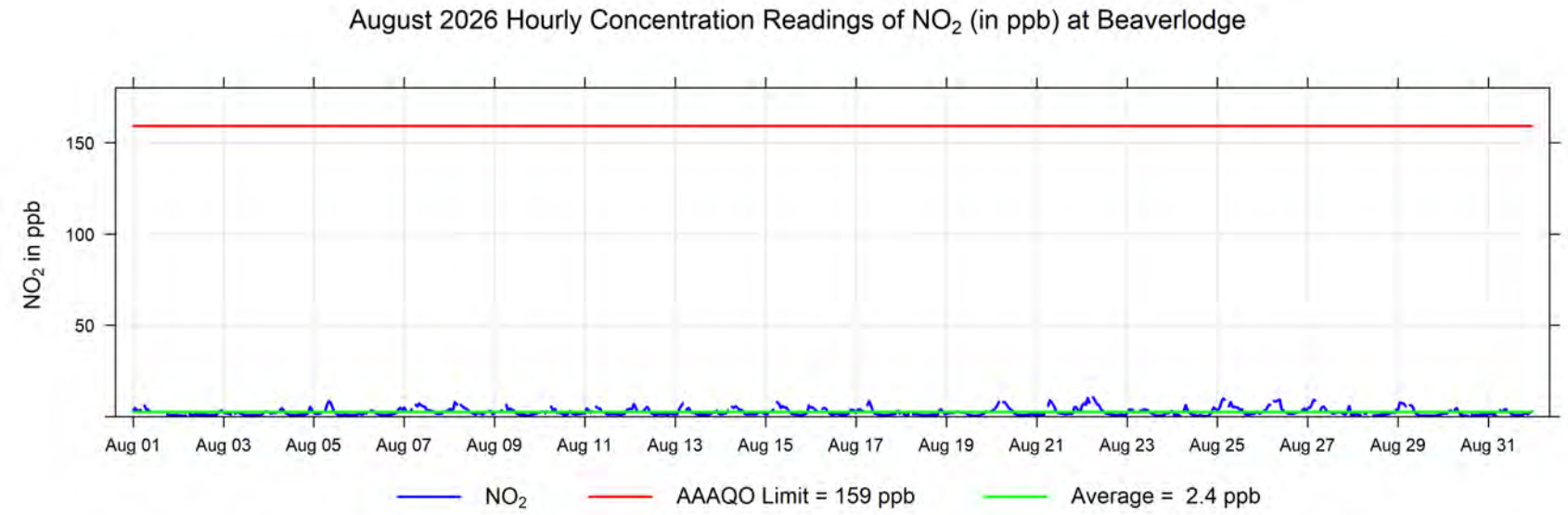


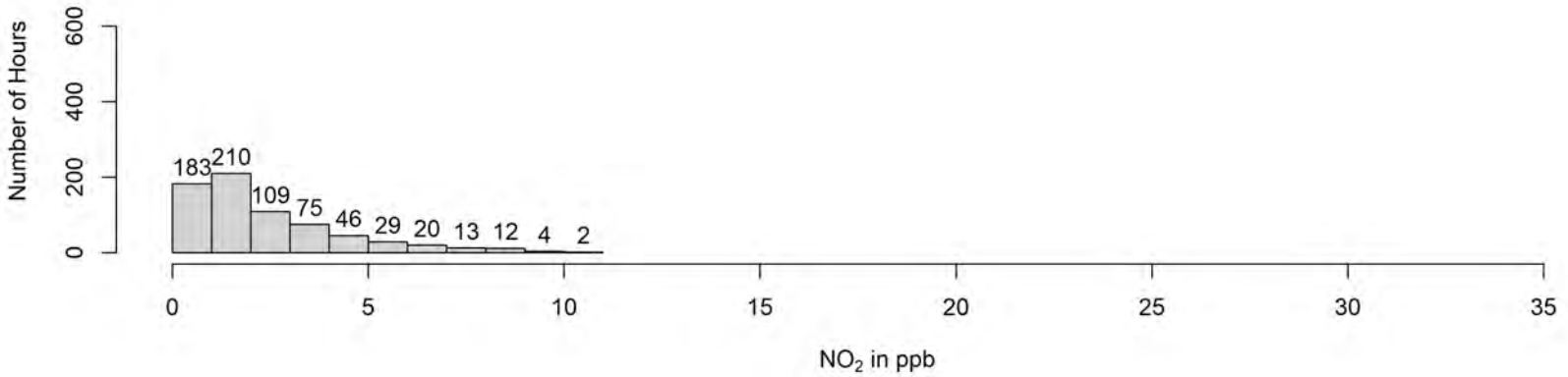

August 2026 Hourly Concentration Readings of SO_2 (in ppb) at Beaverlodge
SO_2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
SO_2
AAAQO Limit = 172 ppb
Average = 0.4 ppb

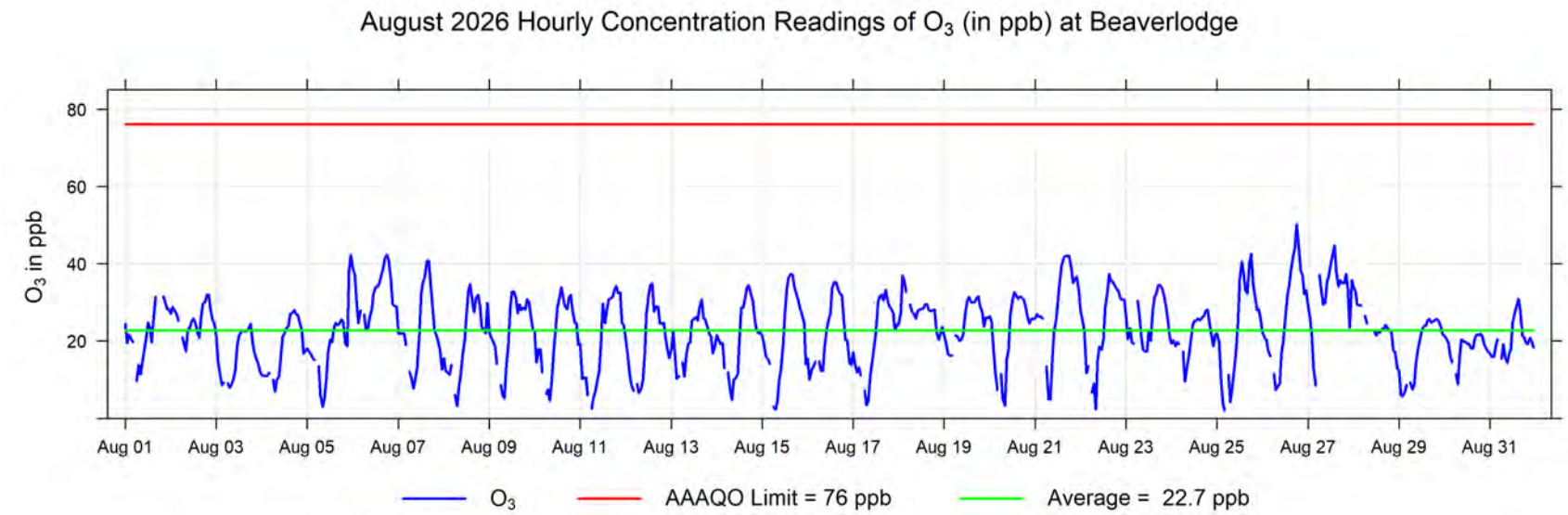

Number of Hours
0
200
400
600
654
39
5
1
3
2
0
0
0
1
1
0
1
0
5
10
15
20
25
SO_2 in ppb

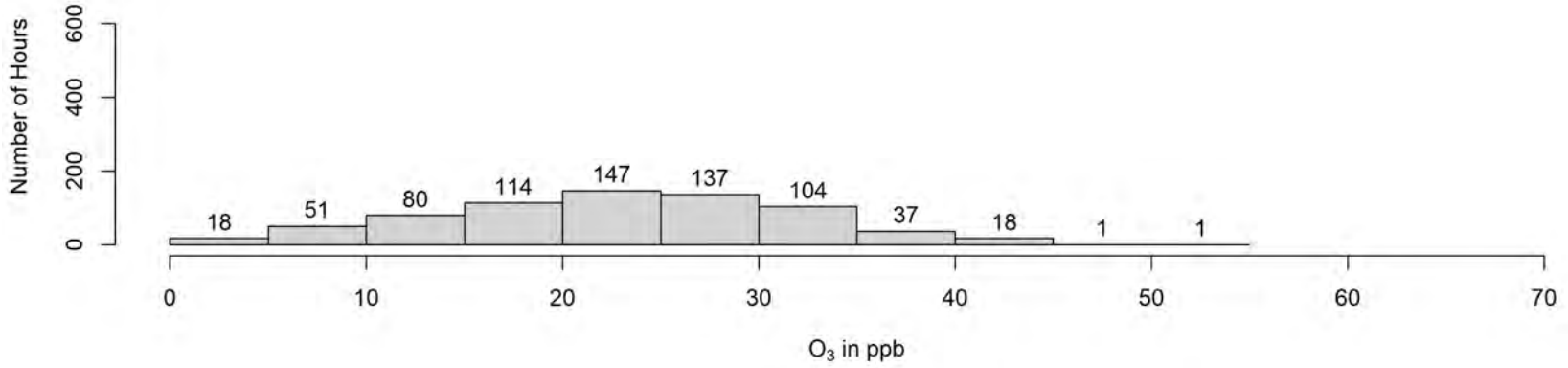

August 2026 Hourly Concentration Readings of NO (in ppb) at Beaverlodge
NO in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NO
Average = 0.6 ppb

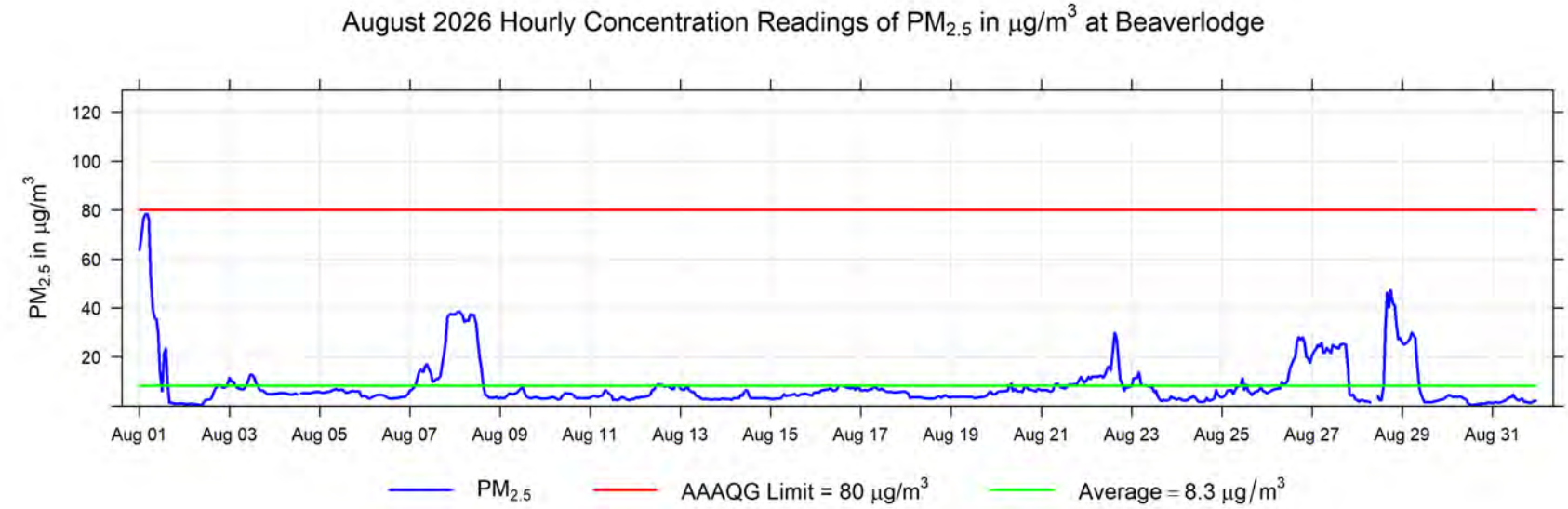

August 2026 Hourly Concentration Readings of NOx (in ppb) at Beaverlodge
NOx in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NOx
Average = 3.1 ppb

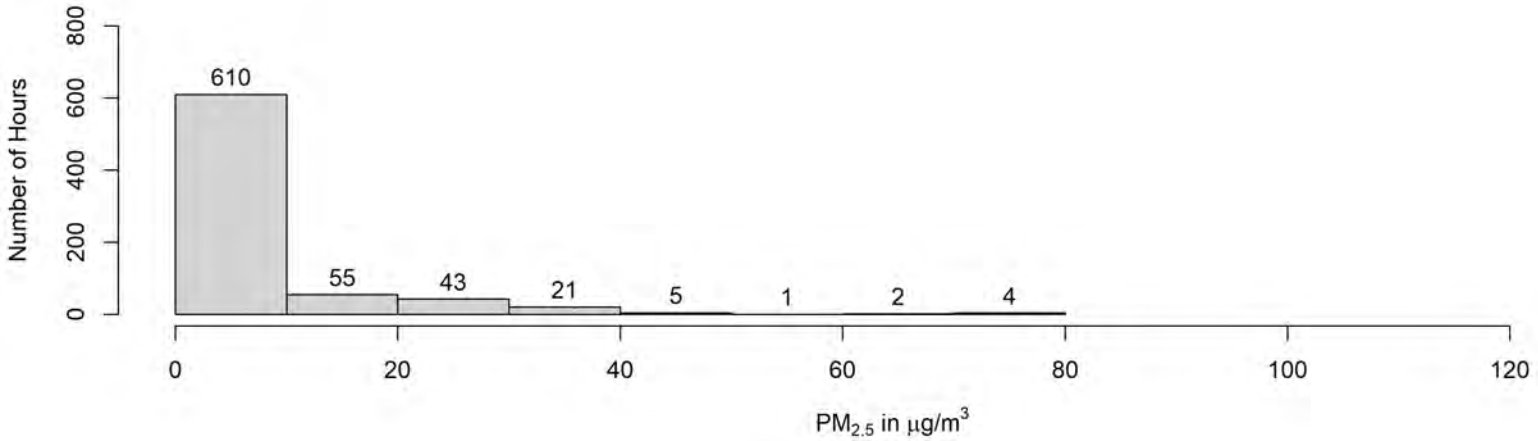

August 2026 Hourly Concentration Readings of NO2 (in ppb) at Beaverlodge
NO2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NO2
AAAQO Limit = 159 ppb
Average = 2.4 ppb

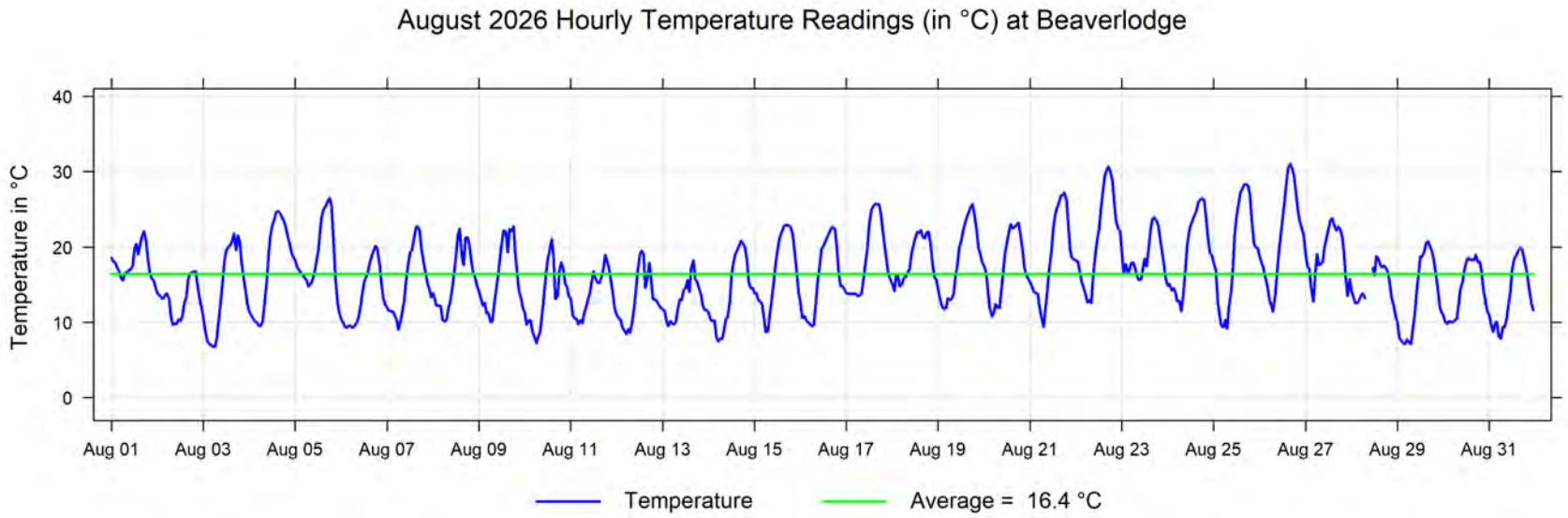

Number of Hours
0
200
400
600
183
210
109
75
46
29
20
13
12
4
2
0
5
10
15
20
25
30
35
NO2 in ppb

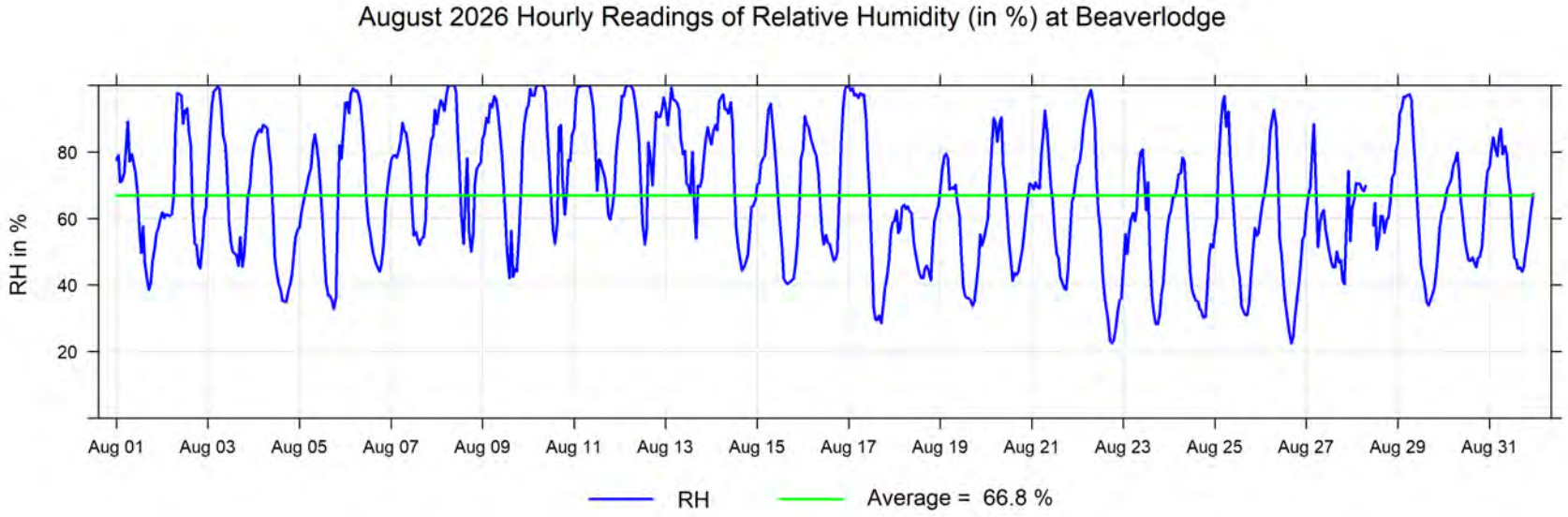

August 2026 Hourly Concentration Readings of O_3 (in ppb) at Beaverlodge
O_3 in ppb
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
O_3
AAAQO Limit = 76 ppb
Average = 22.7 ppb

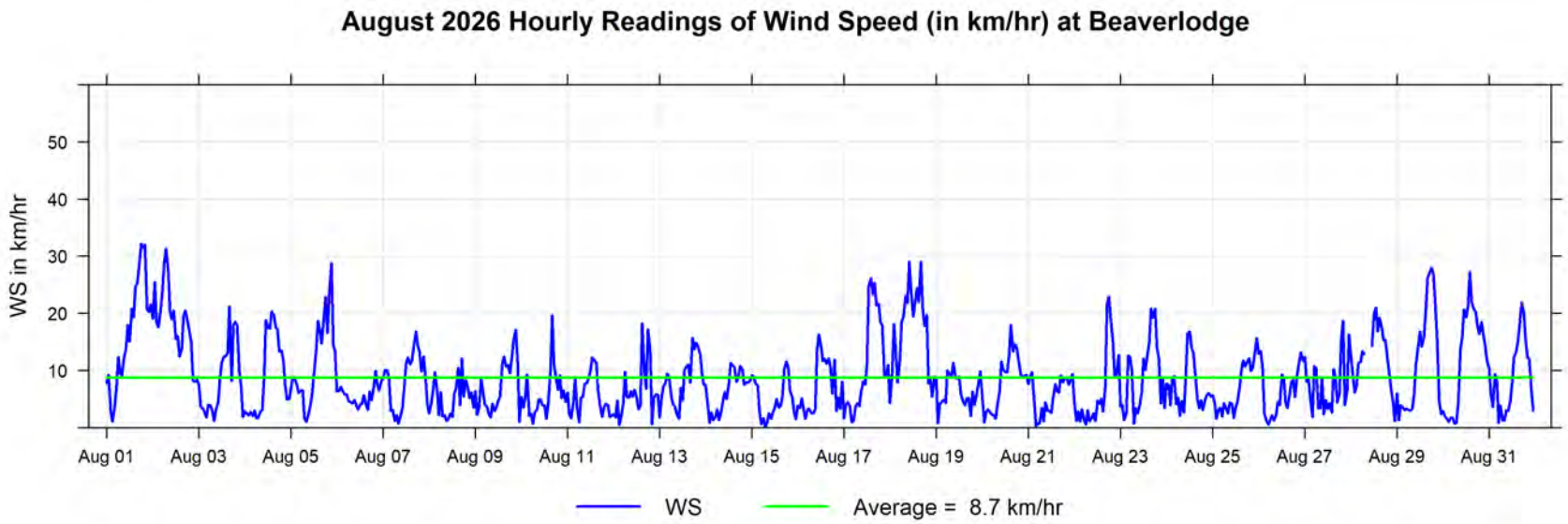

Number of Hours
0
200
400
600
18
51
80
114
147
137
104
37
18
1
1
0
10
20
30
40
50
60
70
O_3 in ppb

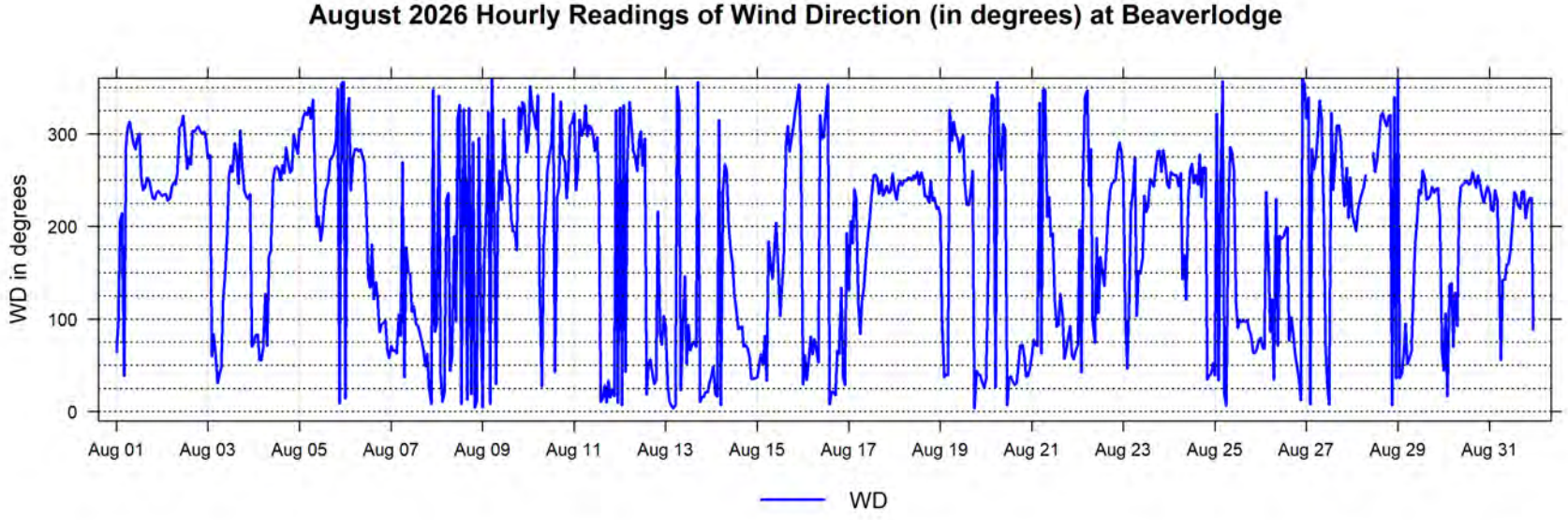

August 2026 Hourly Concentration Readings of PM2.5 in µg/m3 at Beaverlodge
PM2.5 in µg/m3
120
100
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
PM2.5
AAAQG Limit = 80 µg/m3
Average = 8.3 µg/m3

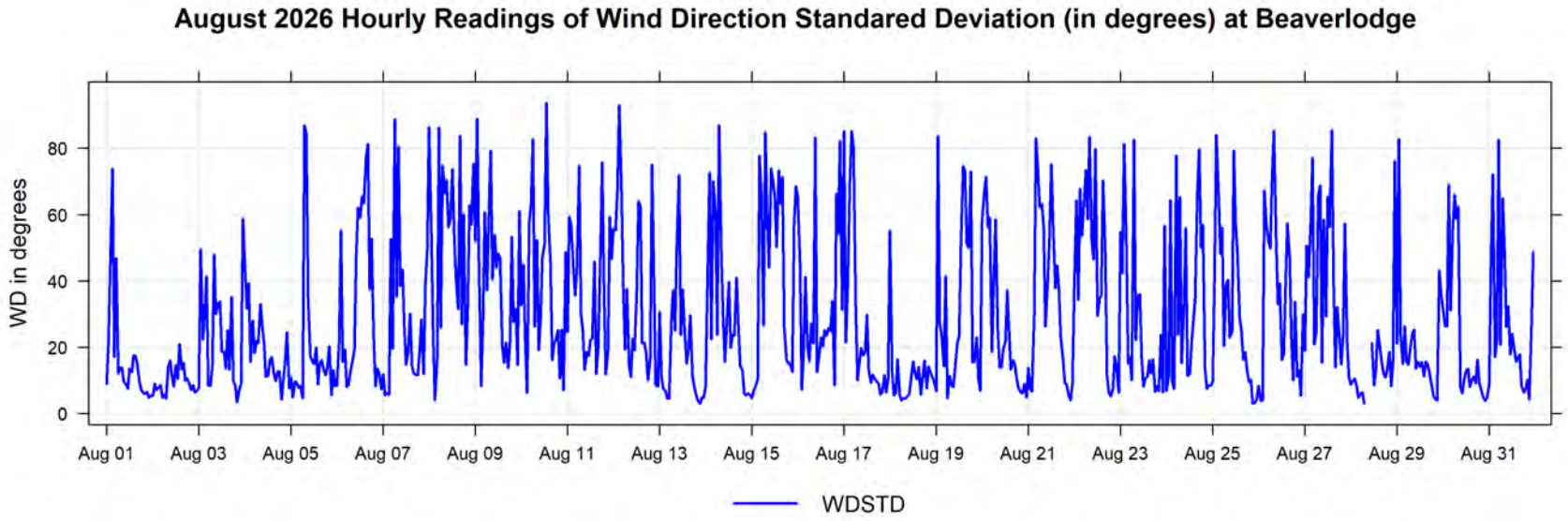

Number of Hours
800
600
400
200
0
610
55
43
21
5
1
2
4
0
20
40
60
80
100
120
PM2.5 in µg/m3

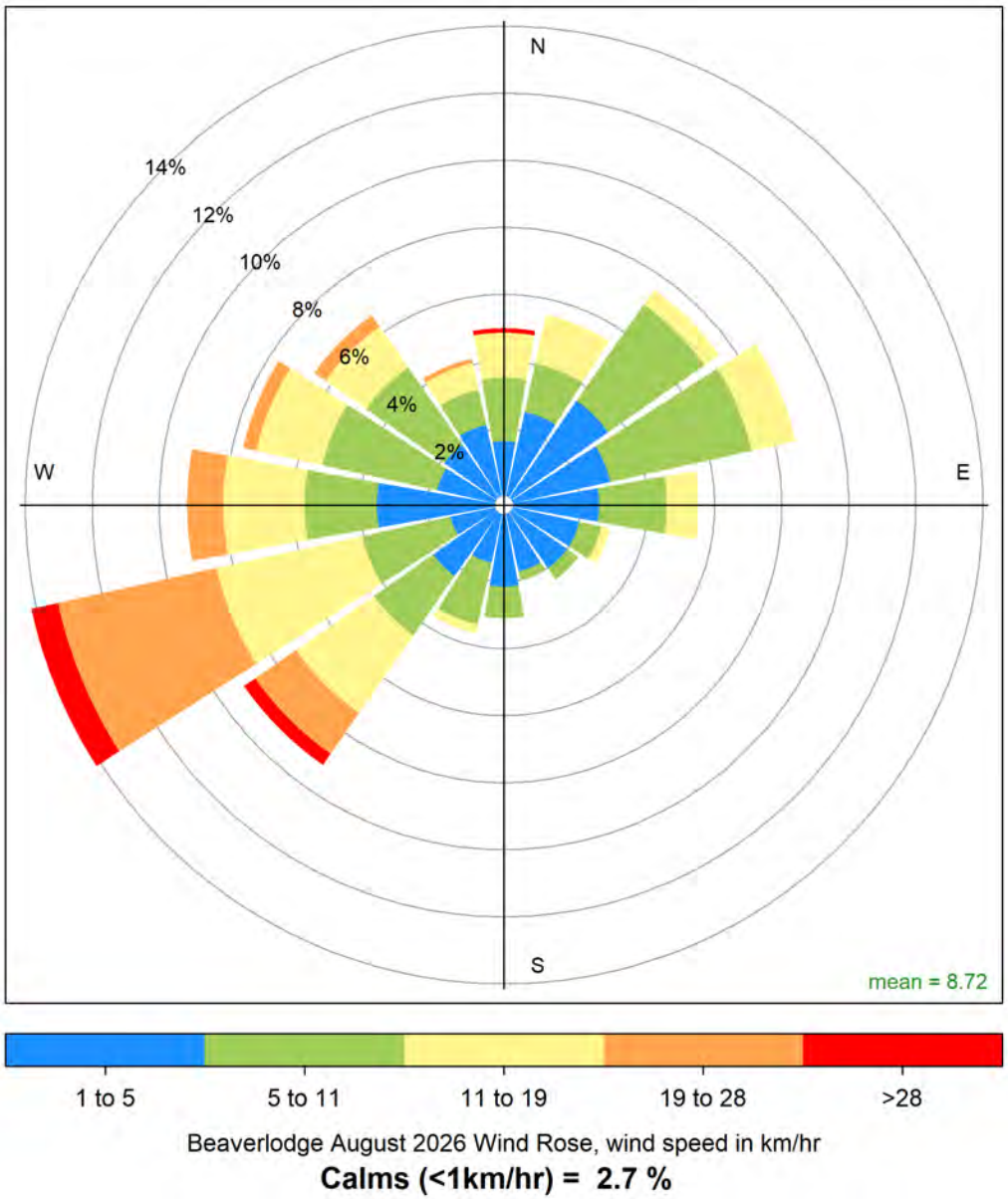

August 2026 Hourly Temperature Readings (in °C) at Beaverlodge
Temperature in °C
40
30
20
10
0
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
Temperature
Average = 16.4 °C


August 2026 Hourly Readings of Relative Humidity (in %) at Beaverlodge
RH in %
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
RH
Average = 66.8 %


August 2026 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge
WS in km/hr
50
40
30
20
10
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WS
Average = 8.7 km/hr


August 2026 Hourly Readings of Wind Direction (in degrees) at Beaverlodge
WD in degrees
300
200
100
0
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WD


August 2026 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Beaverlodge
WD in degrees
0
20
40
60
80
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WDSTD

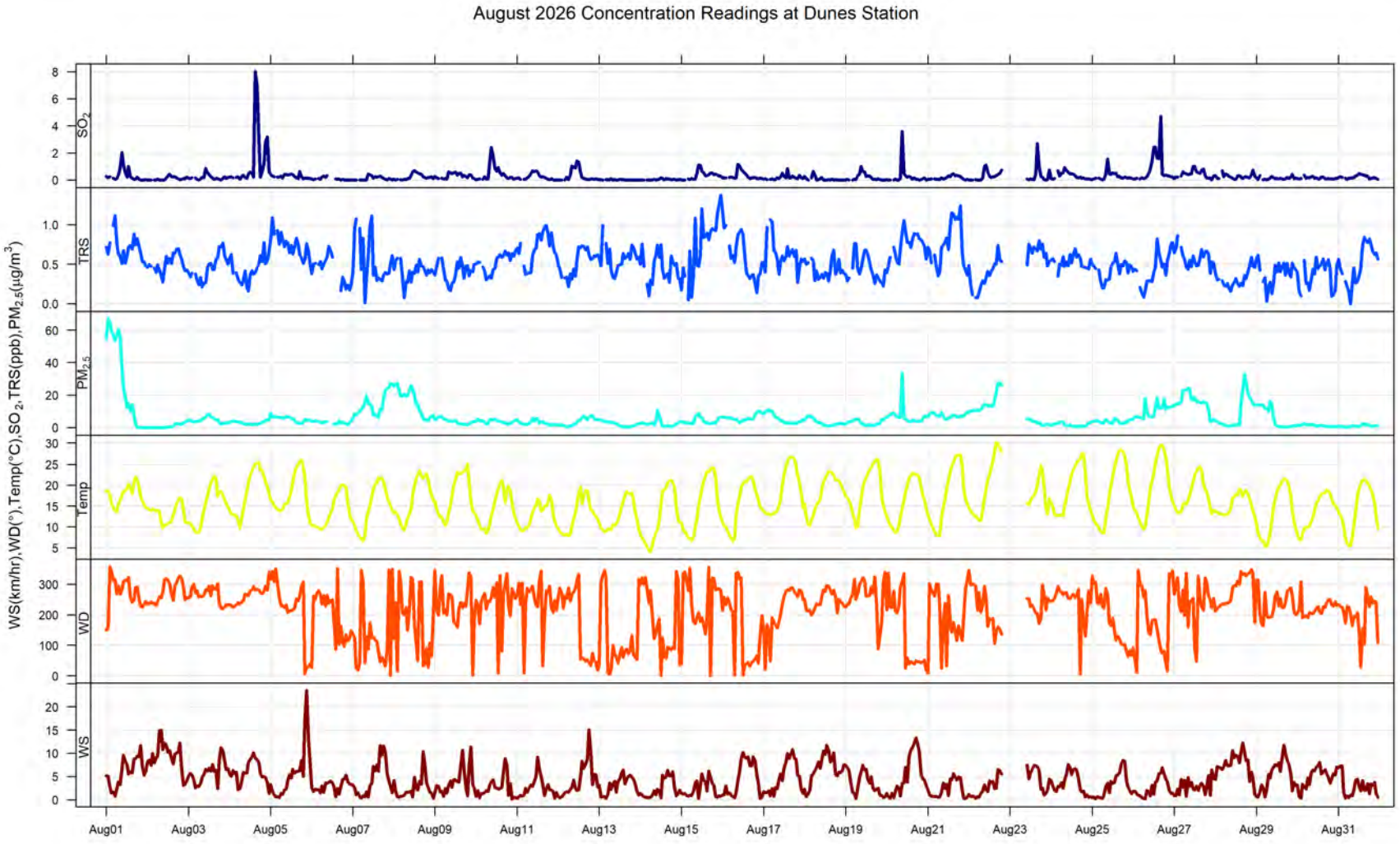


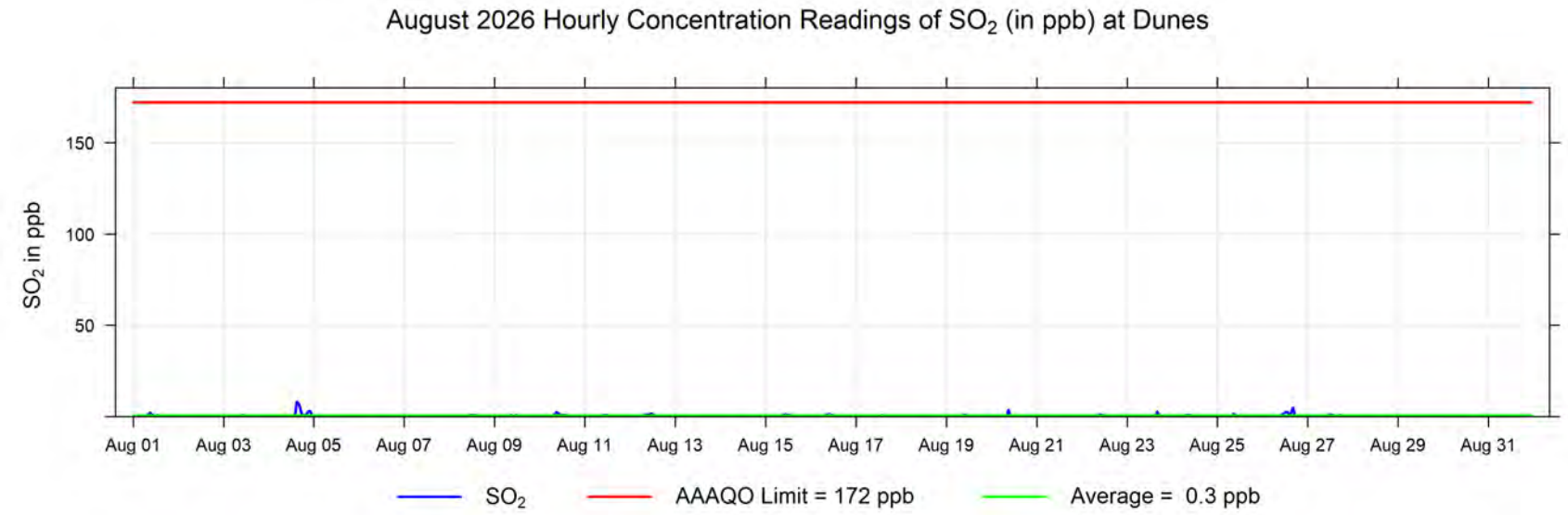
Beaverlodge August 2026 Wind Rose, wind speed in km/hr

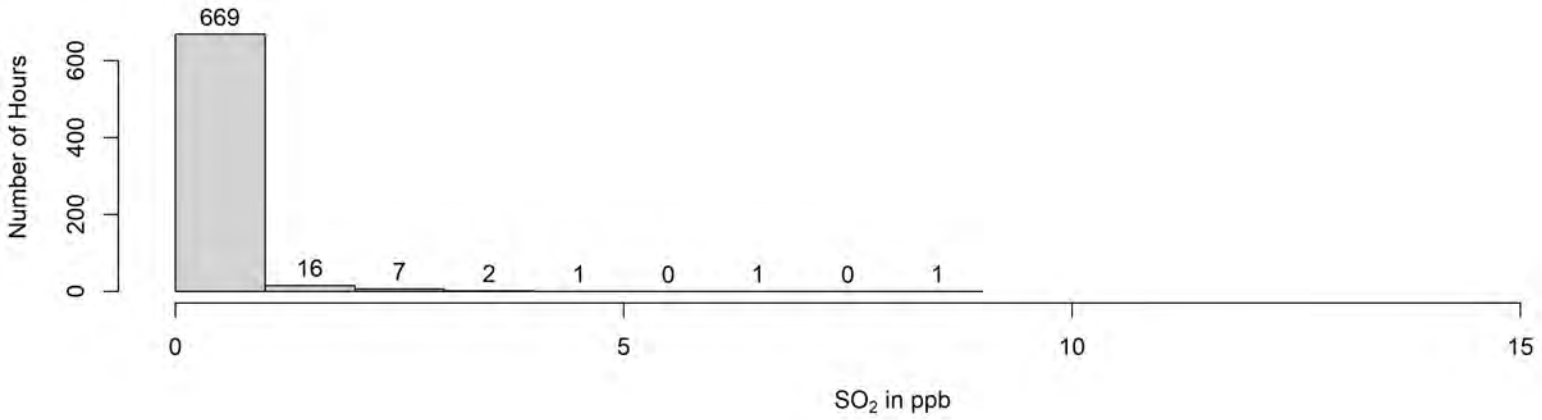
Calms (<1km/hr) = 2.7 %

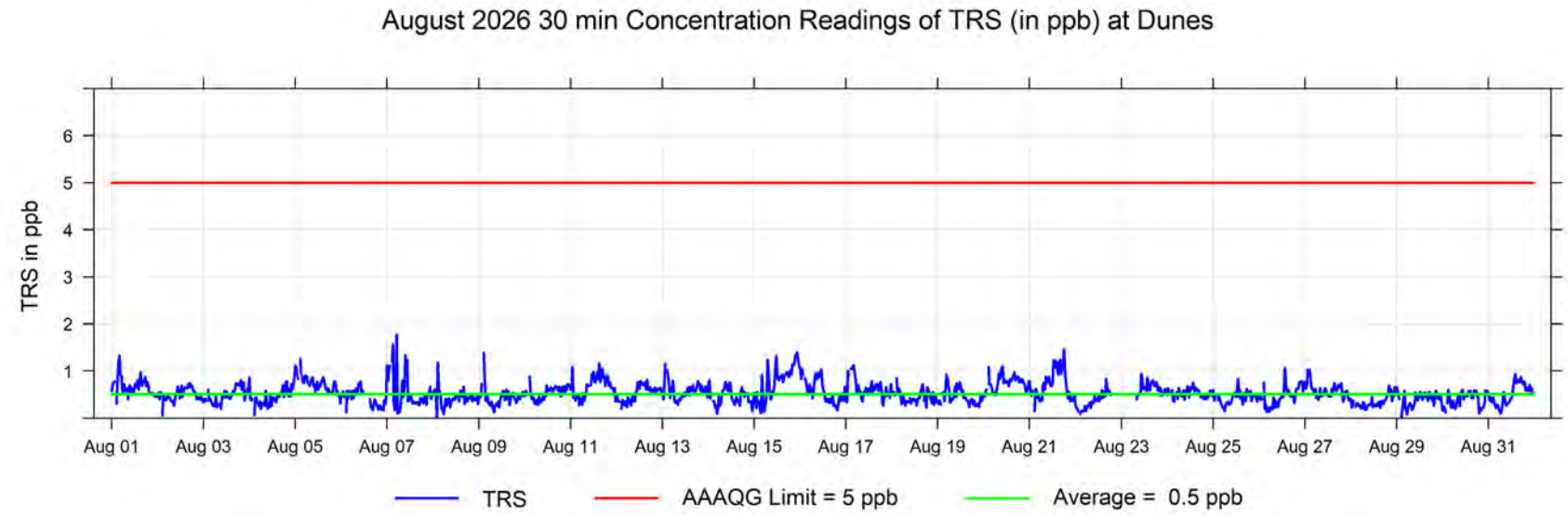
3 Dunes Charts

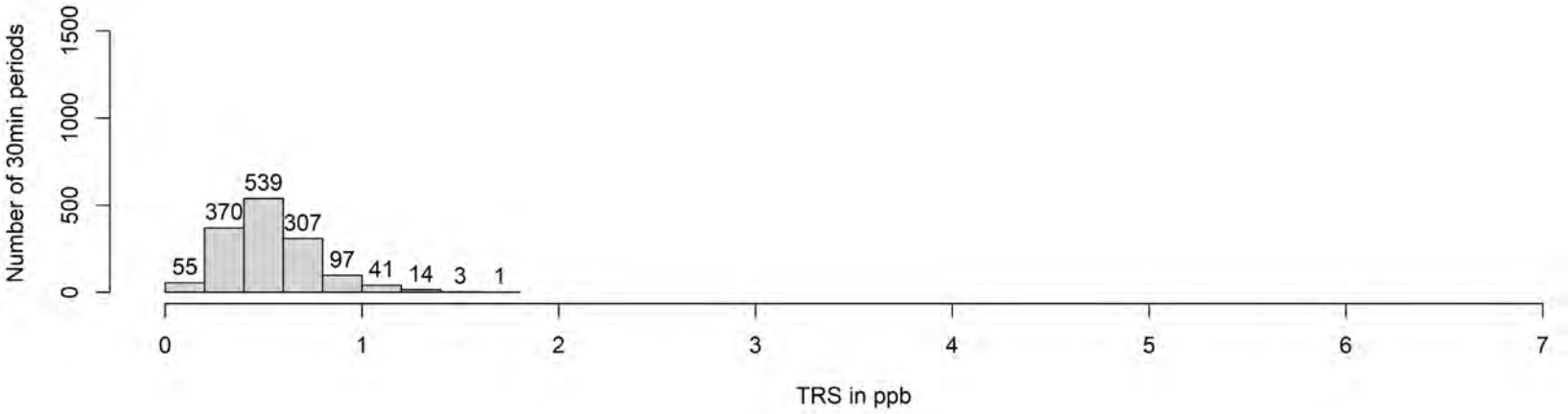
The following pages include the charts and histograms for Dunes Station

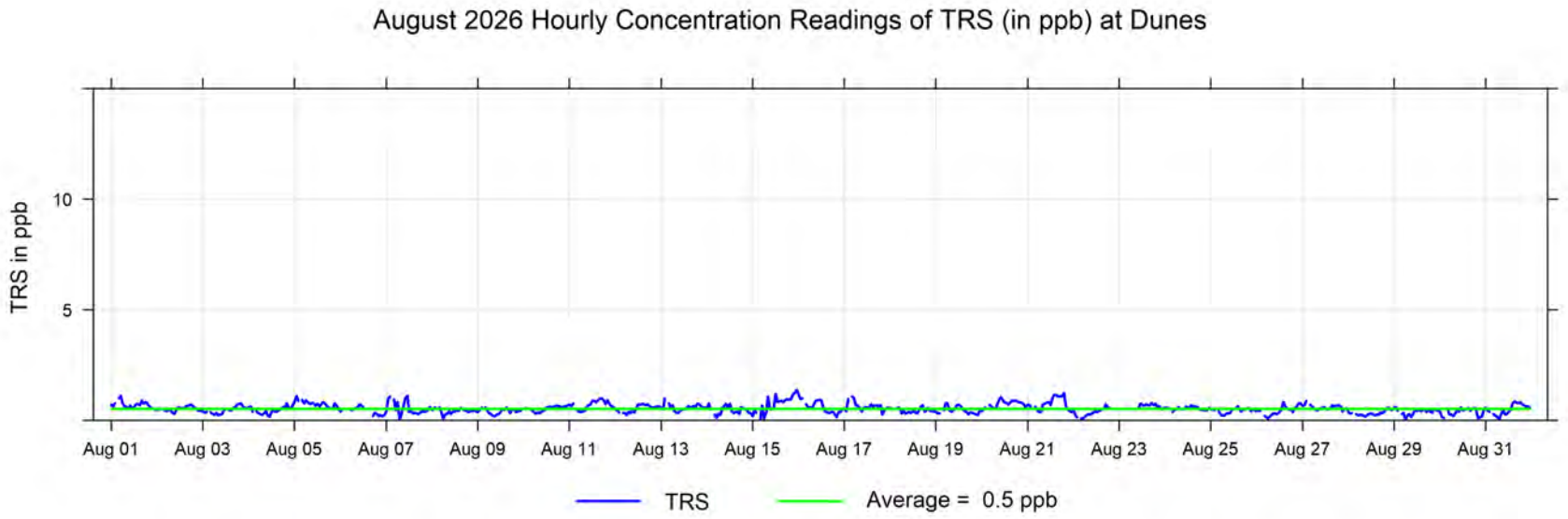


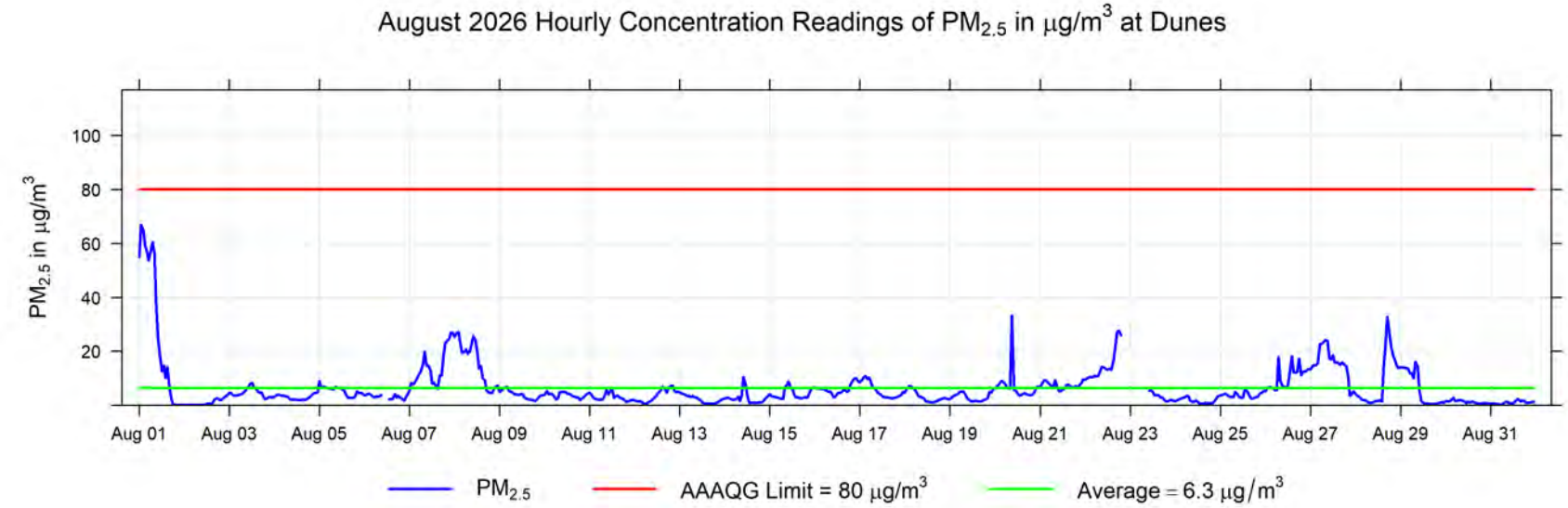

August 2026 Hourly Concentration Readings of SO_2 (in ppb) at Dunes
SO_2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
SO_2
AAAQO Limit = 172 ppb
Average = 0.3 ppb

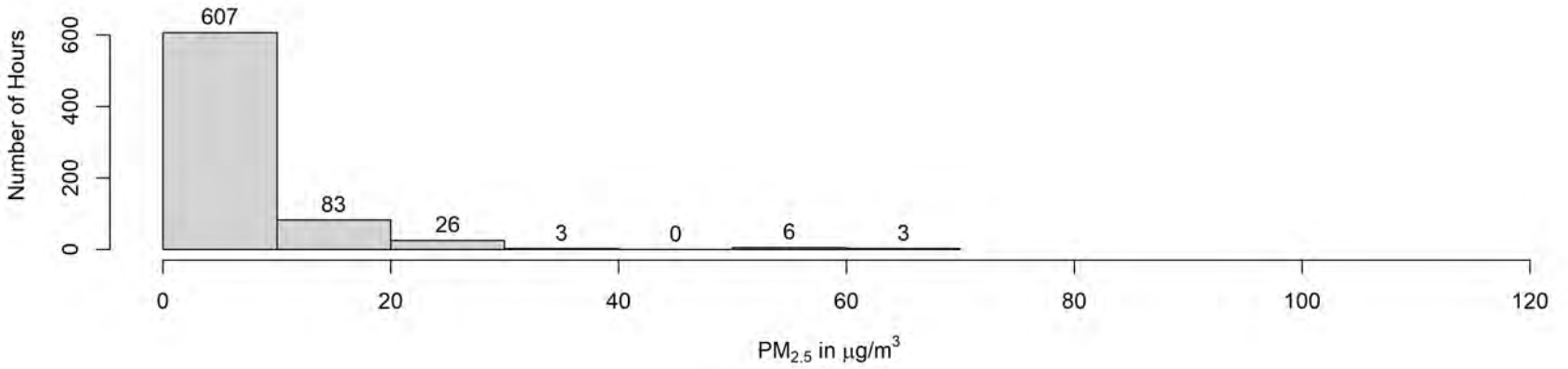

Number of Hours
0
200
400
600
669
16
7
2
1
0
1
0
1
0
5
10
15
SO_2 in ppb

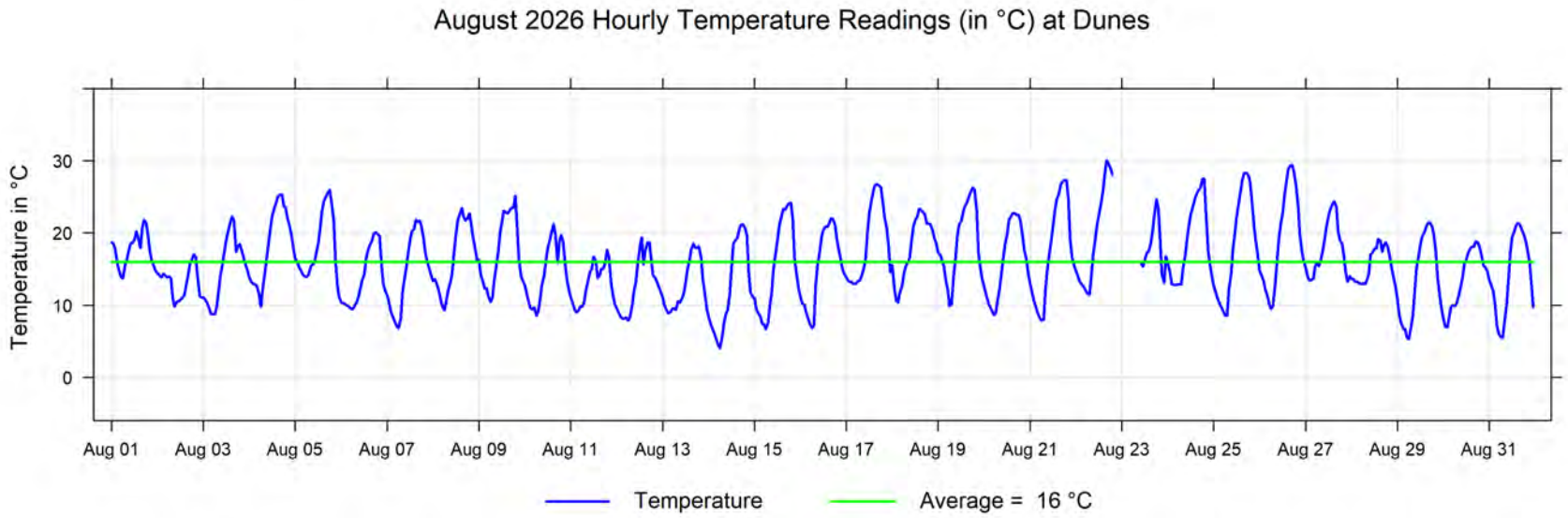

August 2026 30 min Concentration Readings of TRS (in ppb) at Dunes
TRS in ppb
1
2
3
4
5
6
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
TRS
AAAQG Limit = 5 ppb
Average = 0.5 ppb

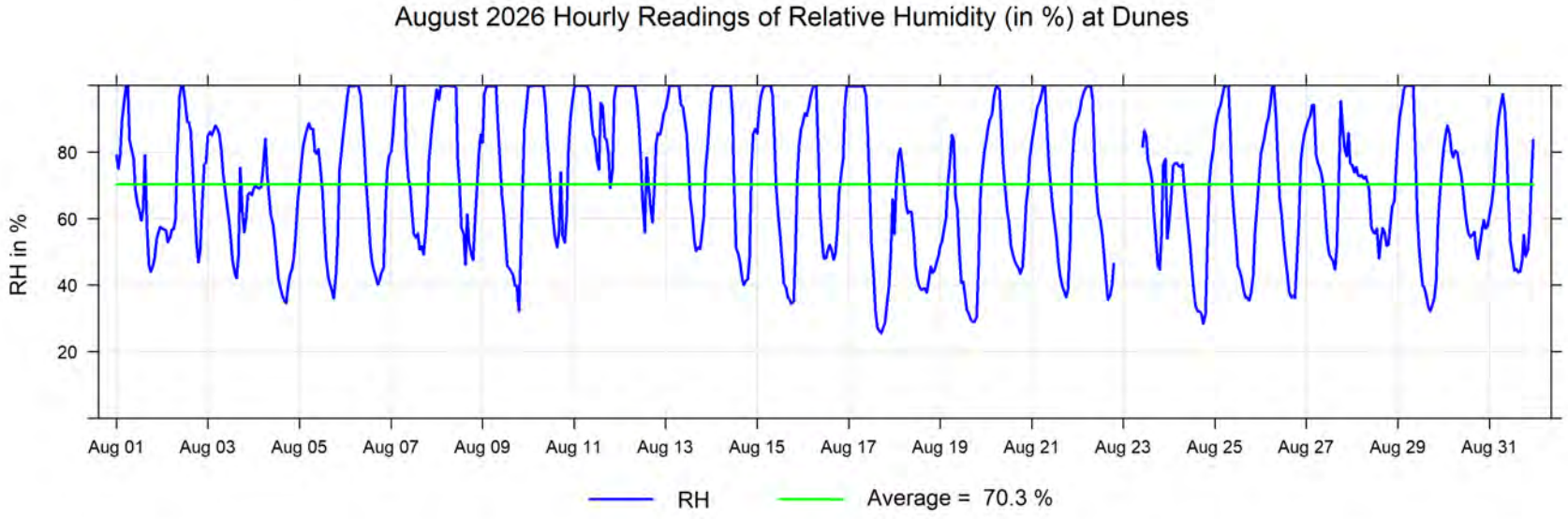

Number of 30min periods
0
500
1000
1500
55
370
539
307
97
41
14
3
1
0
1
2
3
4
5
6
7
TRS in ppb

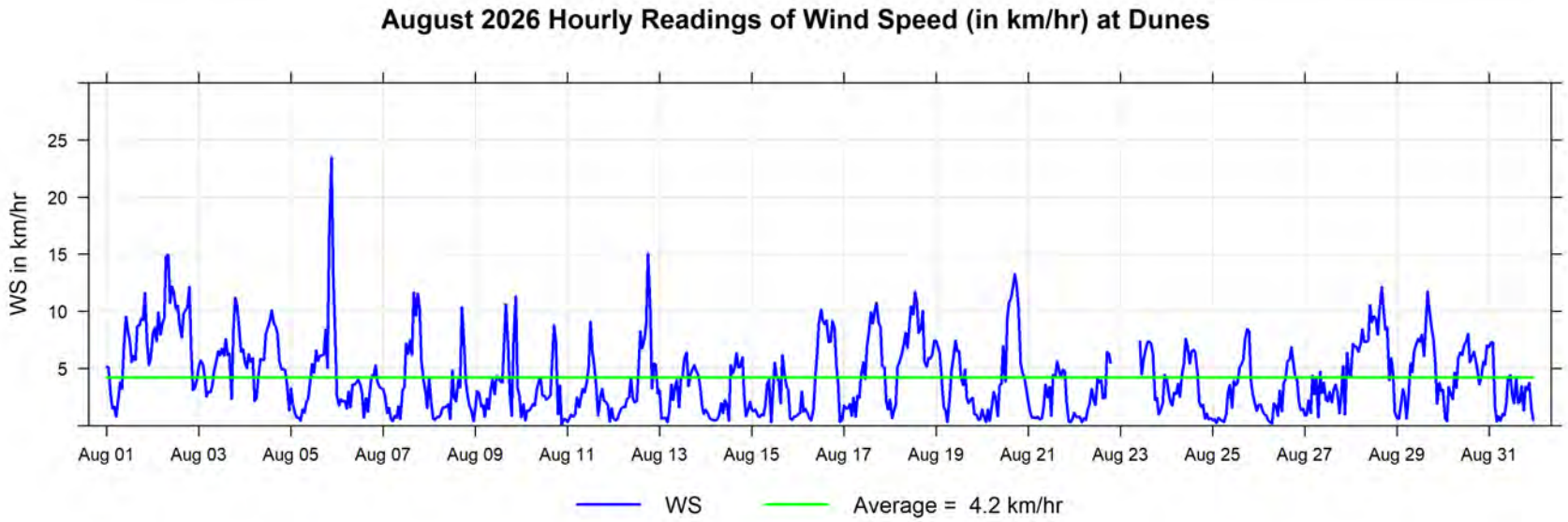

August 2026 Hourly Concentration Readings of TRS (in ppb) at Dunes
TRS in ppb
10
5
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
TRS
Average = 0.5 ppb

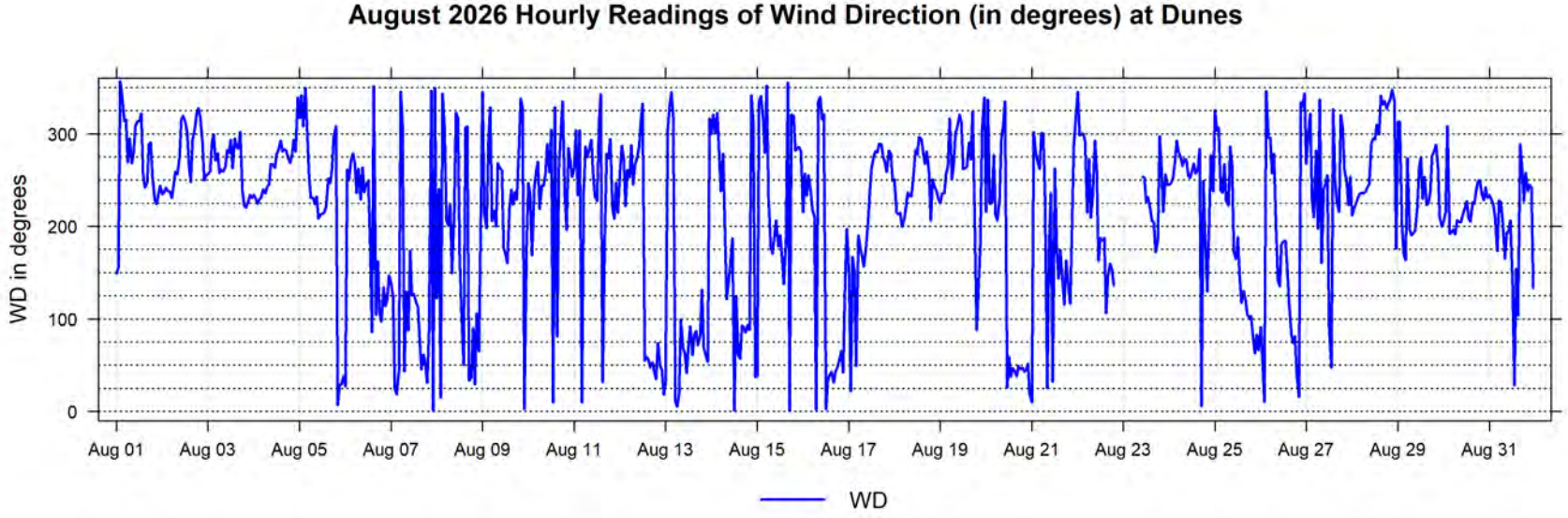

August 2026 Hourly Concentration Readings of PM2.5 in µg/m3 at Dunes
PM2.5 in µg/m3
100
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
PM2.5
AAAQG Limit = 80 µg/m3
Average = 6.3 µg/m3

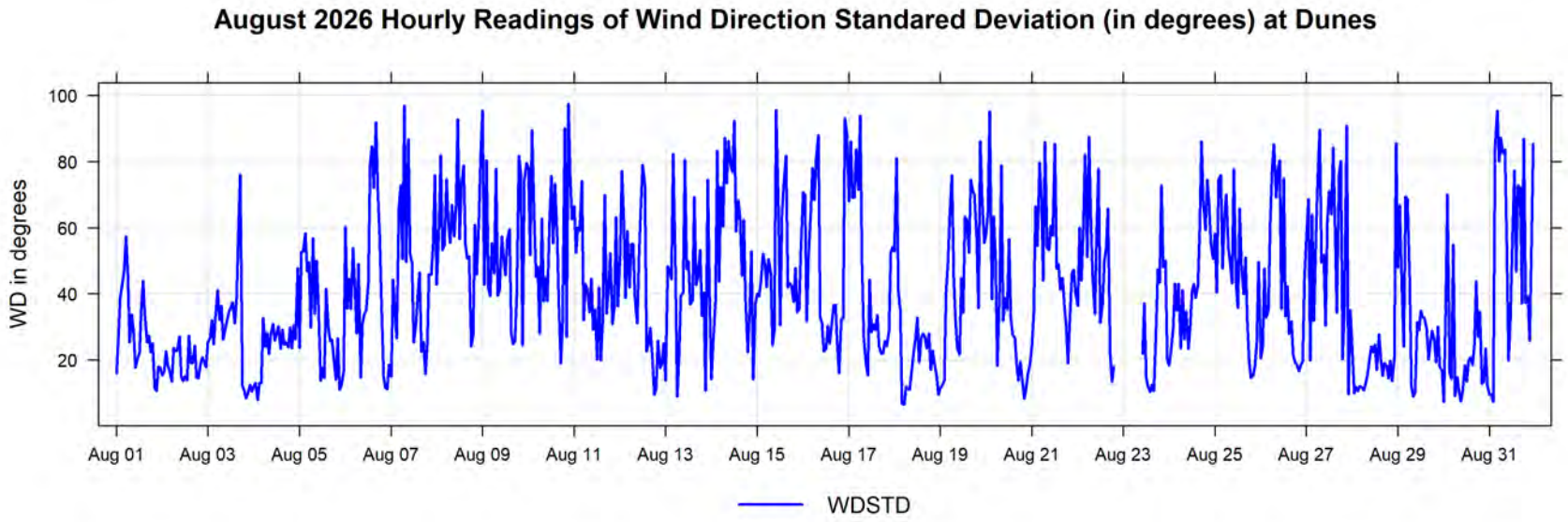

Number of Hours
0
200
400
600
607
83
26
3
0
6
3
0
20
40
60
80
100
120
PM2.5 in µg/m3

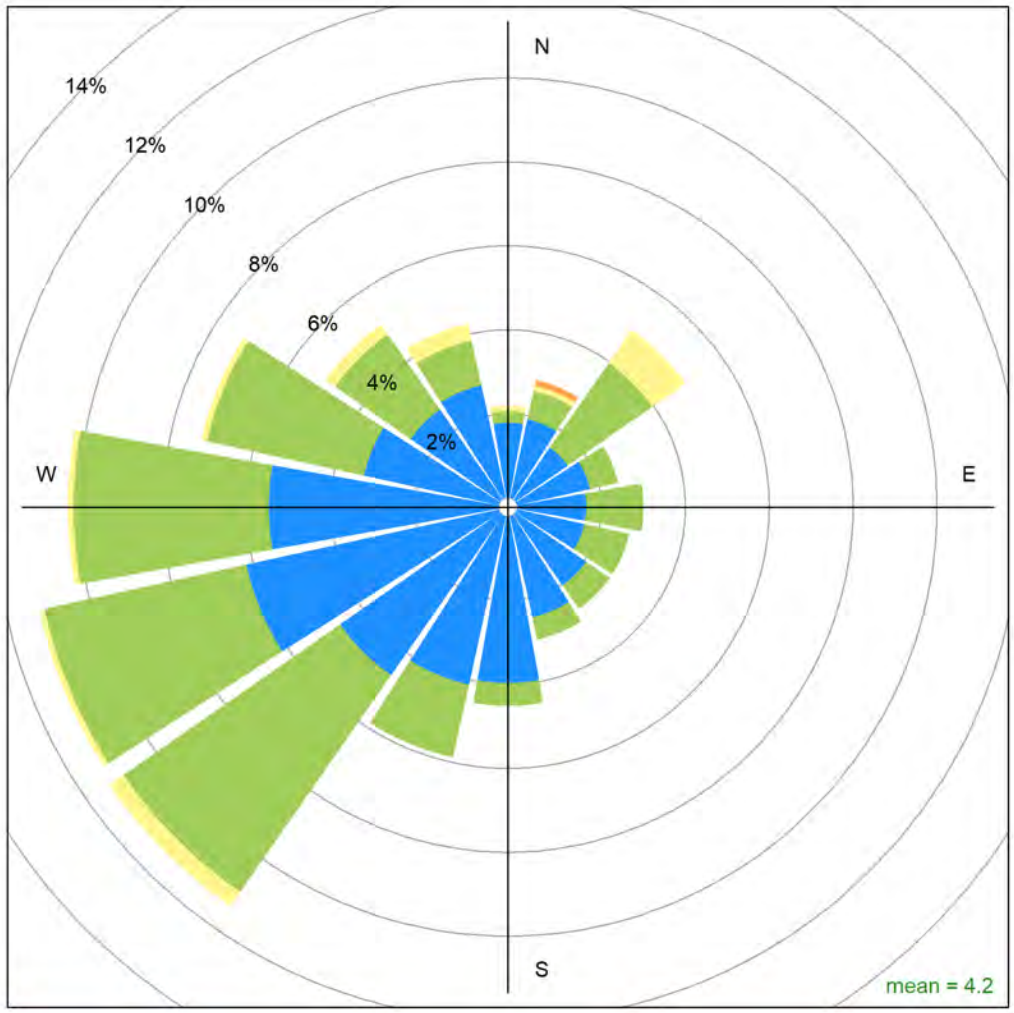

August 2026 Hourly Temperature Readings (in °C) at Dunes
Temperature in °C
30
20
10
0
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
Temperature
Average = 16 °C


August 2026 Hourly Readings of Relative Humidity (in %) at Dunes
RH in %
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
RH
Average = 70.3 %


August 2026 Hourly Readings of Wind Speed (in km/hr) at Dunes
WS in km/hr
25
20
15
10
5
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WS
Average = 4.2 km/hr


August 2026 Hourly Readings of Wind Direction (in degrees) at Dunes
WD in degrees
300
200
100
0
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WD

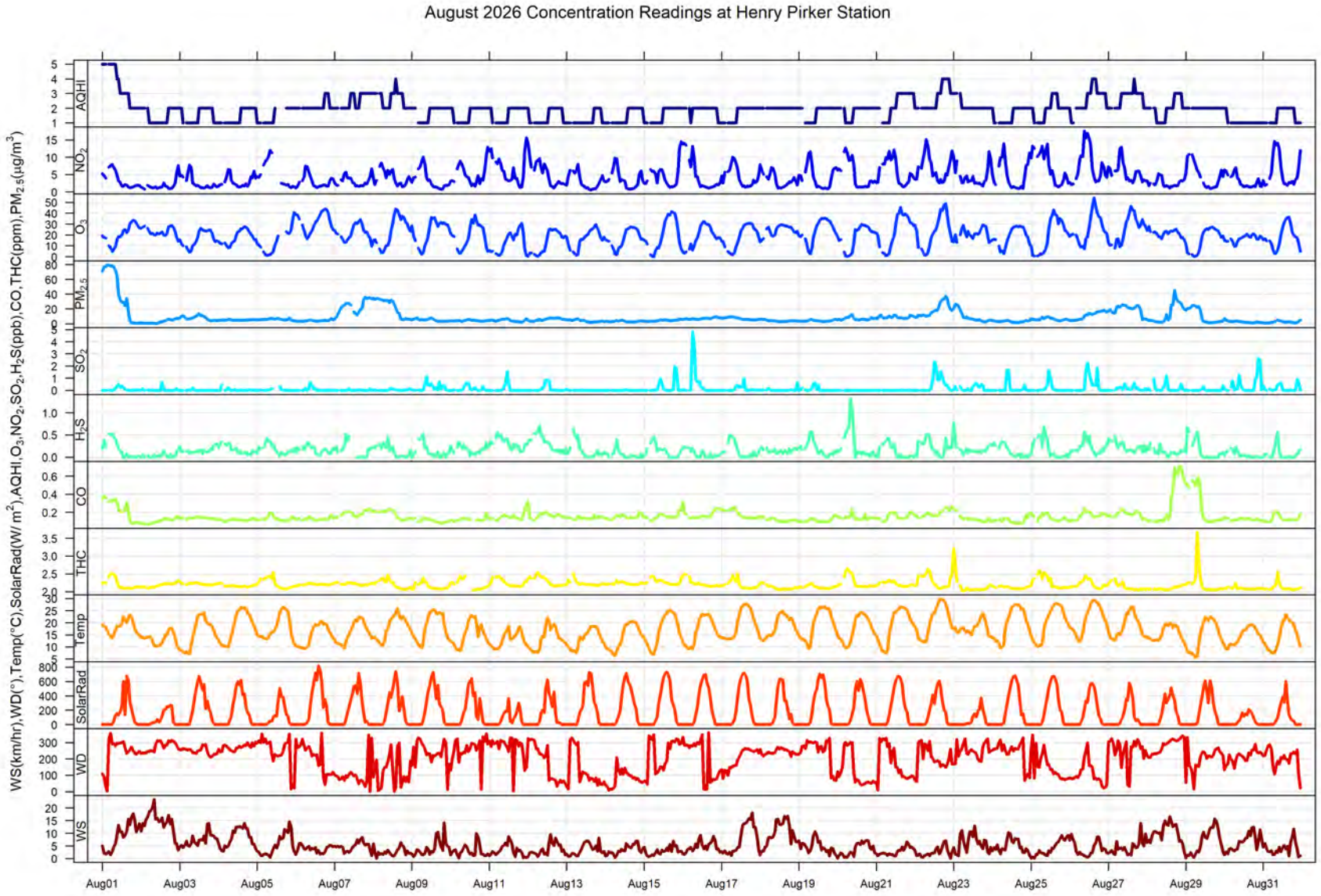

August 2026 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Dunes
WD in degrees
100
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WDSTD

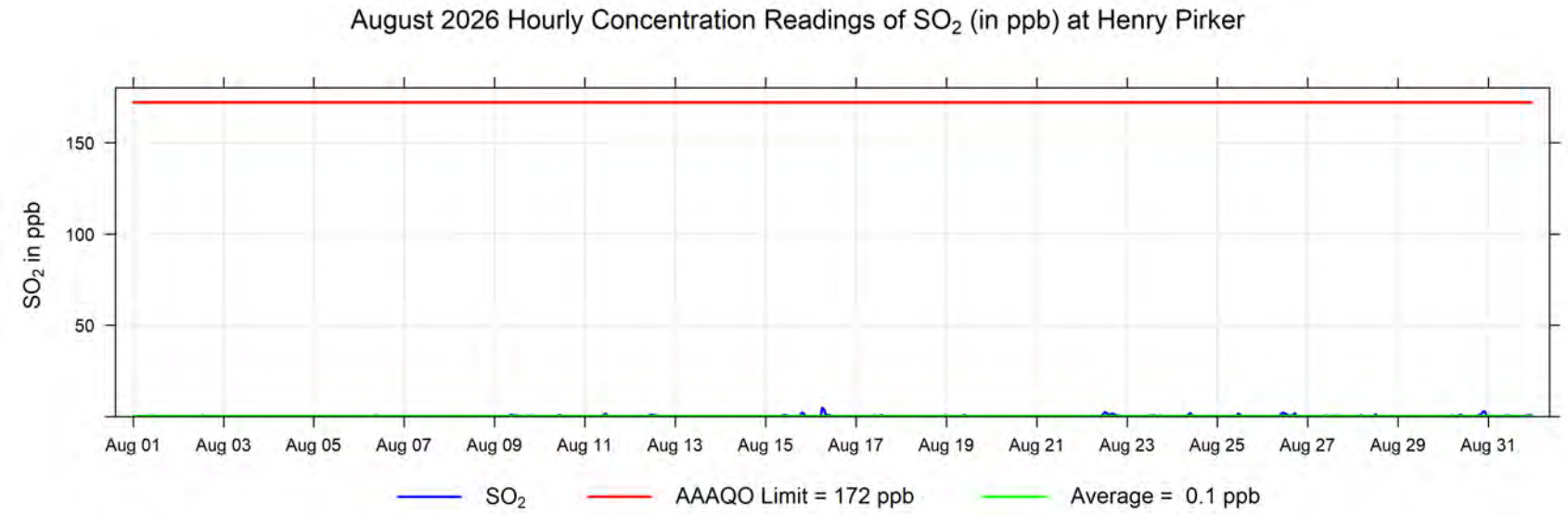


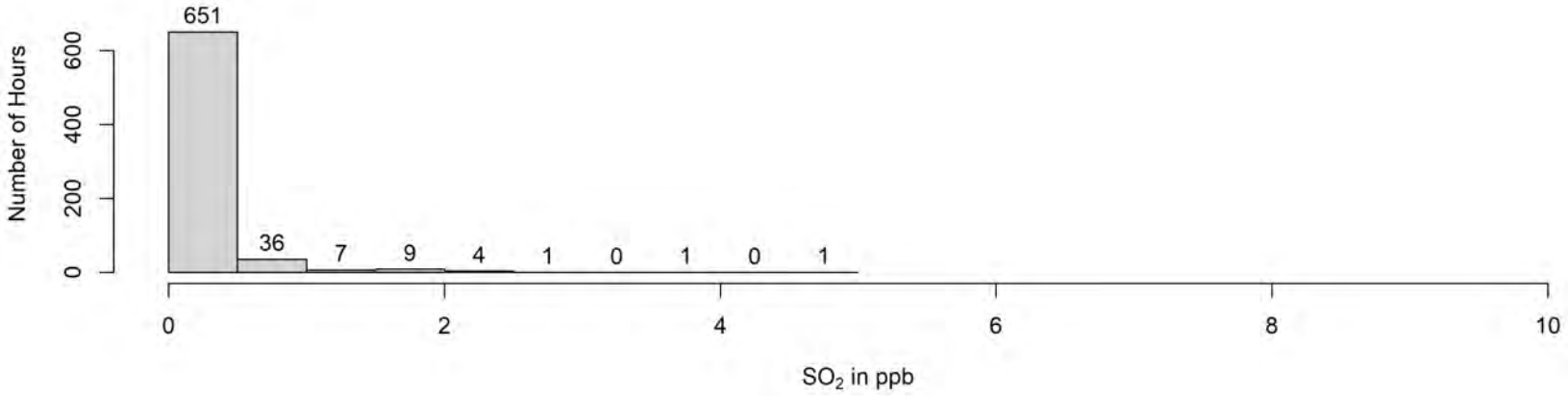
Dunes August 2026 Wind Rose, wind speed in km/hr

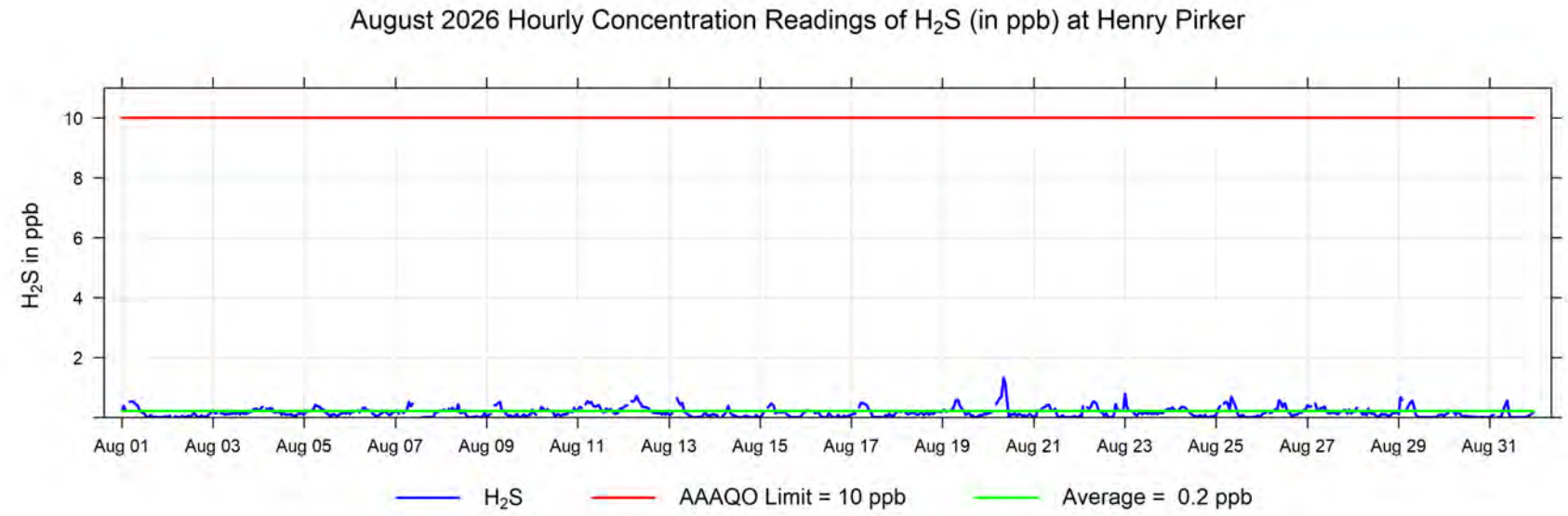
Calms (<1km/hr) = 16.3 %

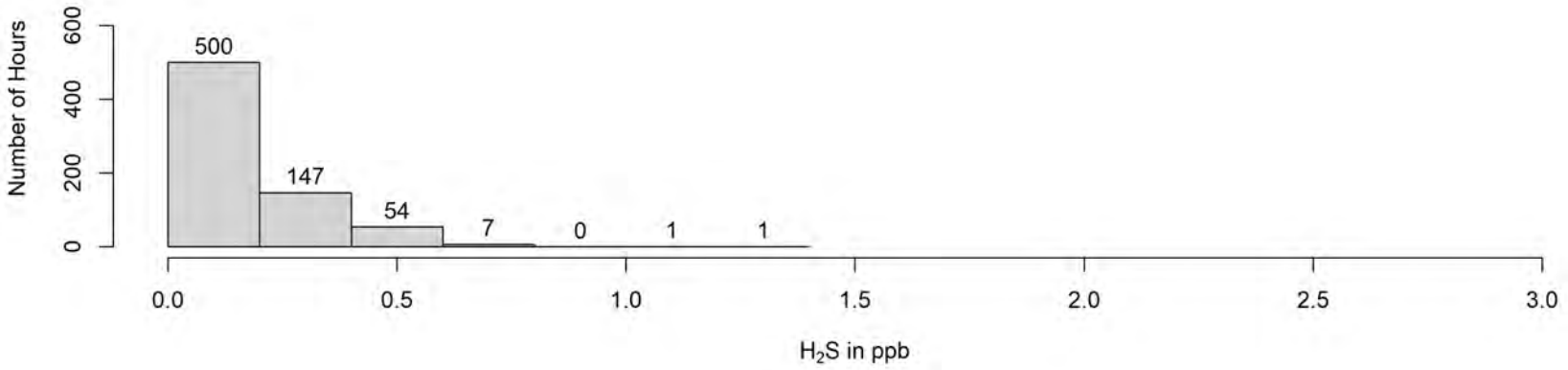
4 Grande Prairie - Henry Pirker Charts

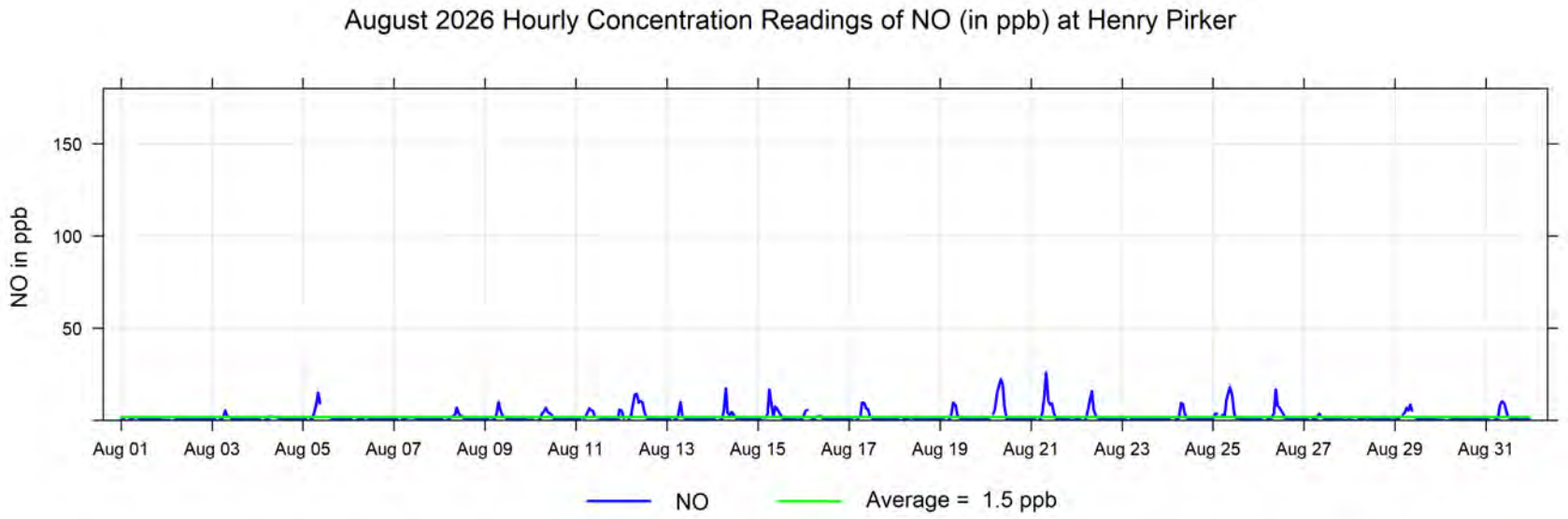


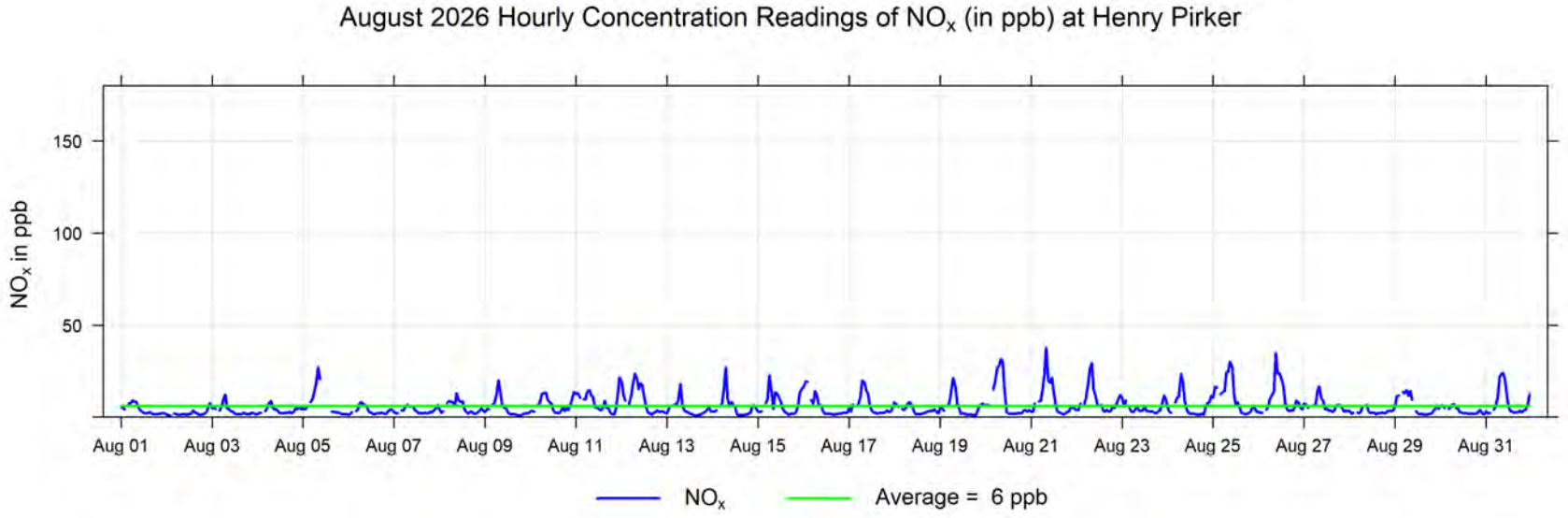

August 2026 Hourly Concentration Readings of SO2 (in ppb) at Henry Pirker
SO2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
SO2
AAAQO Limit = 172 ppb
Average = 0.1 ppb

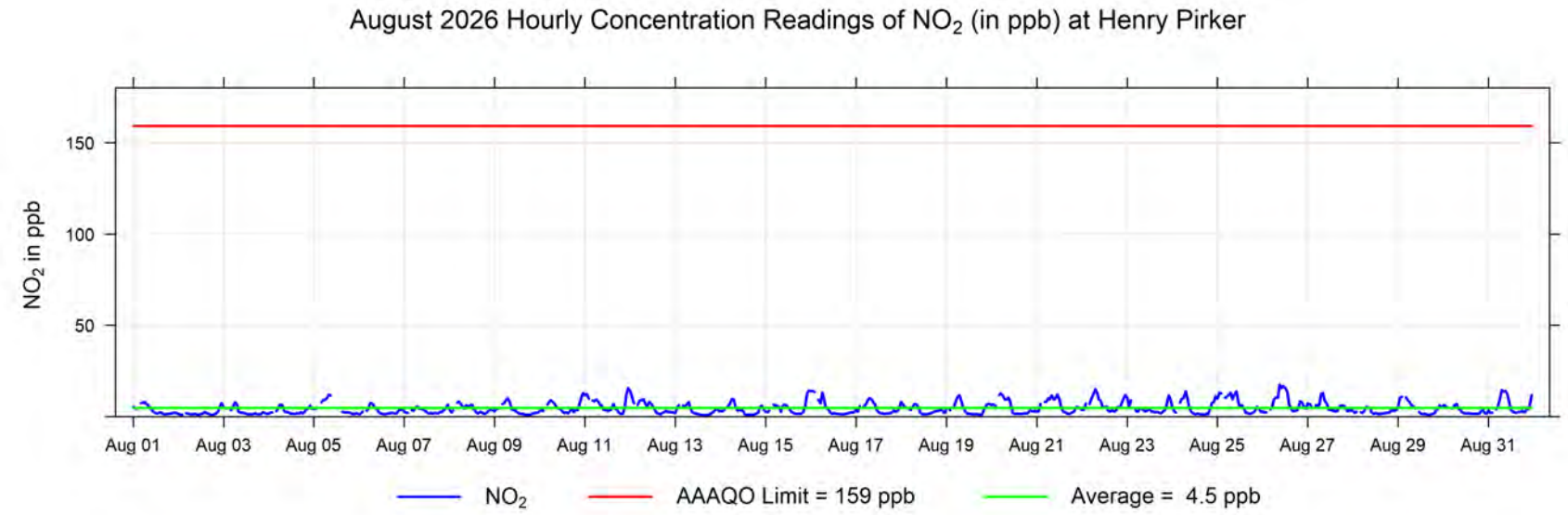

Number of Hours
0
200
400
600
651
36
7
9
4
1
0
1
0
1
0
2
4
6
8
10
SO2 in ppb

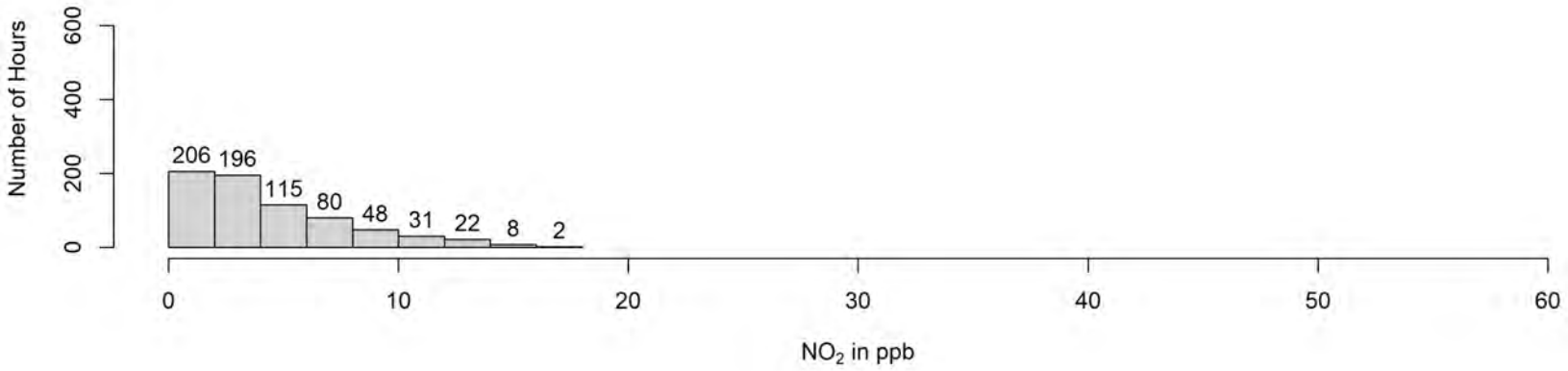

August 2026 Hourly Concentration Readings of H_2S (in ppb) at Henry Pirker
H_2S in ppb
10
8
6
4
2
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
H_2S
AAAQO Limit = 10 ppb
Average = 0.2 ppb

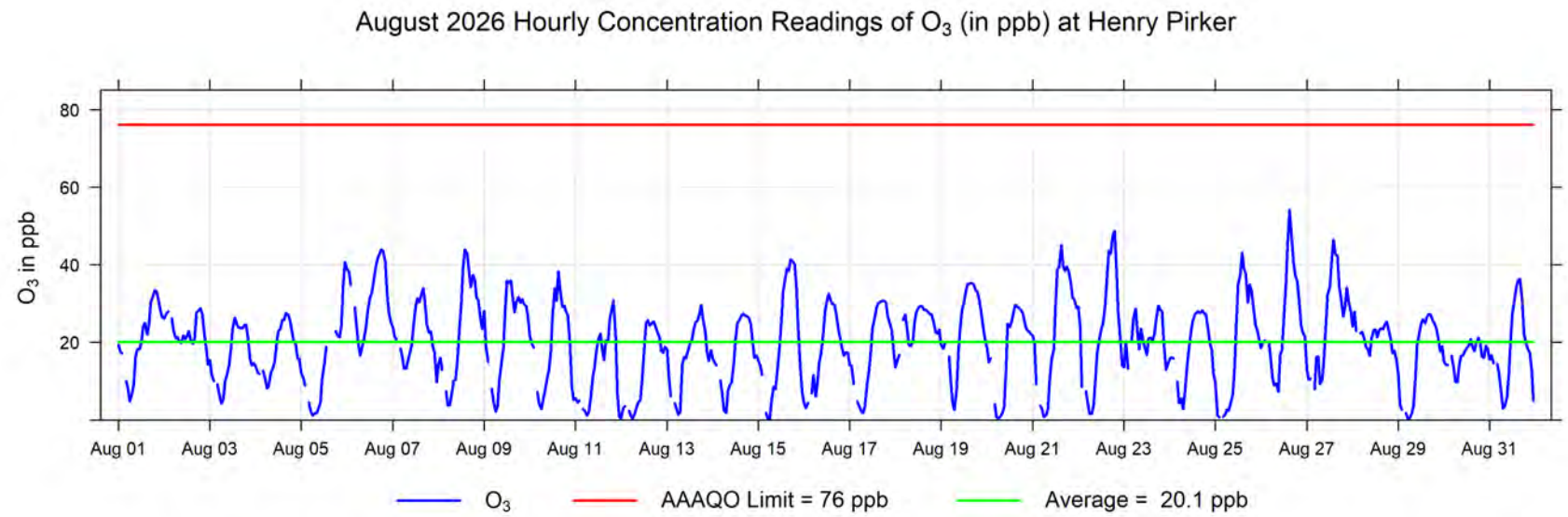

Number of Hours
0
200
400
600
500
147
54
7
0
1
1
0.0
0.5
1.0
1.5
2.0
2.5
3.0
H_2S in ppb

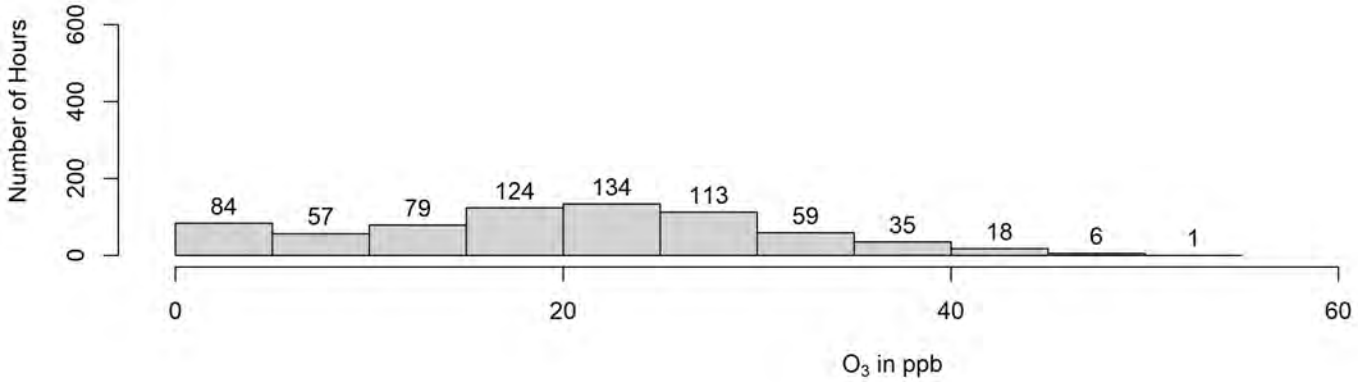

August 2026 Hourly Concentration Readings of NO (in ppb) at Henry Pirker
NO in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NO
Average = 1.5 ppb

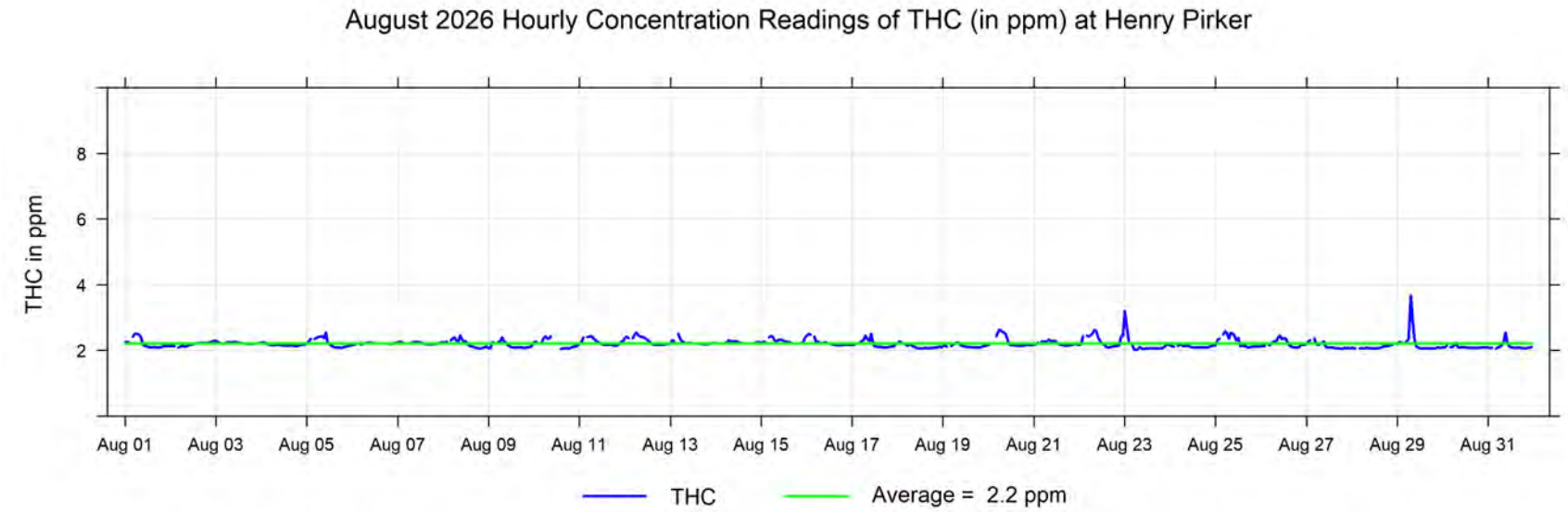

August 2026 Hourly Concentration Readings of NOx (in ppb) at Henry Pirker
NOx in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NOx
Average = 6 ppb

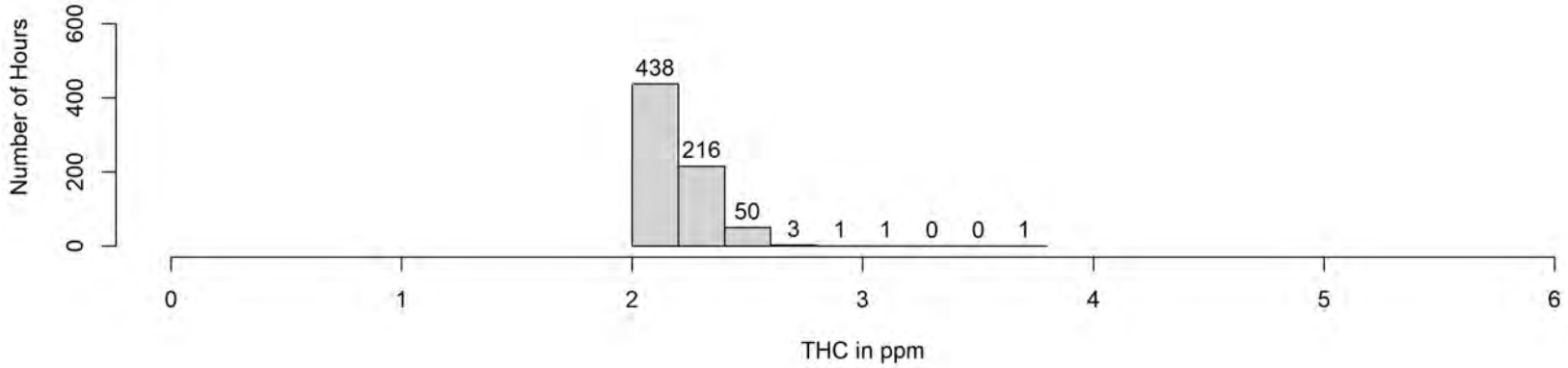

August 2026 Hourly Concentration Readings of NO2 (in ppb) at Henry Pirker
NO2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NO2
AAAQO Limit = 159 ppb
Average = 4.5 ppb

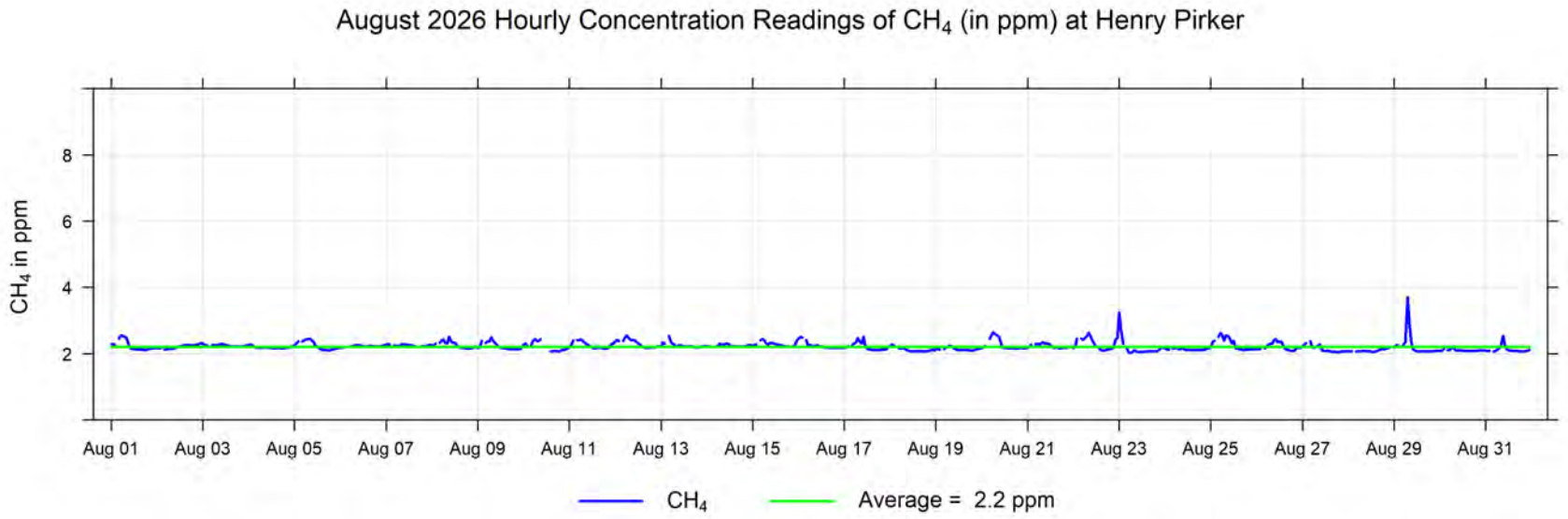

Number of Hours
0
200
400
600
206
196
115
80
48
31
22
8
2
0
10
20
30
40
50
60
NO2 in ppb

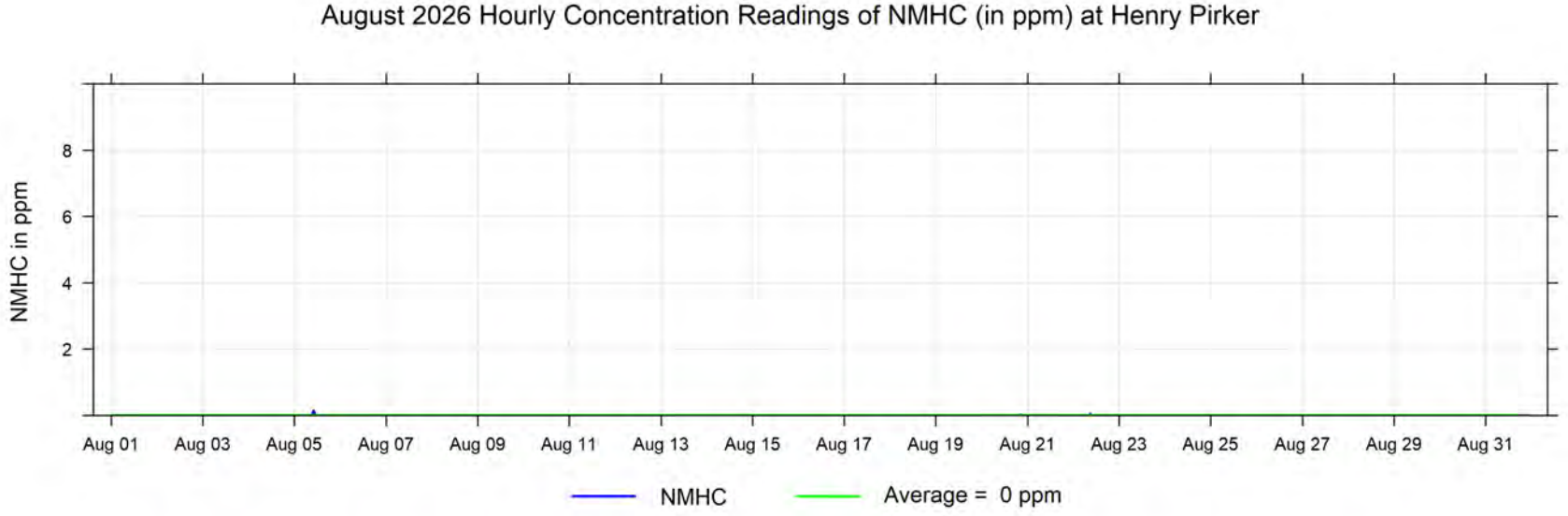

August 2026 Hourly Concentration Readings of O_3 (in ppb) at Henry Pirker
O_3 in ppb
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
O_3
AAAQO Limit = 76 ppb
Average = 20.1 ppb

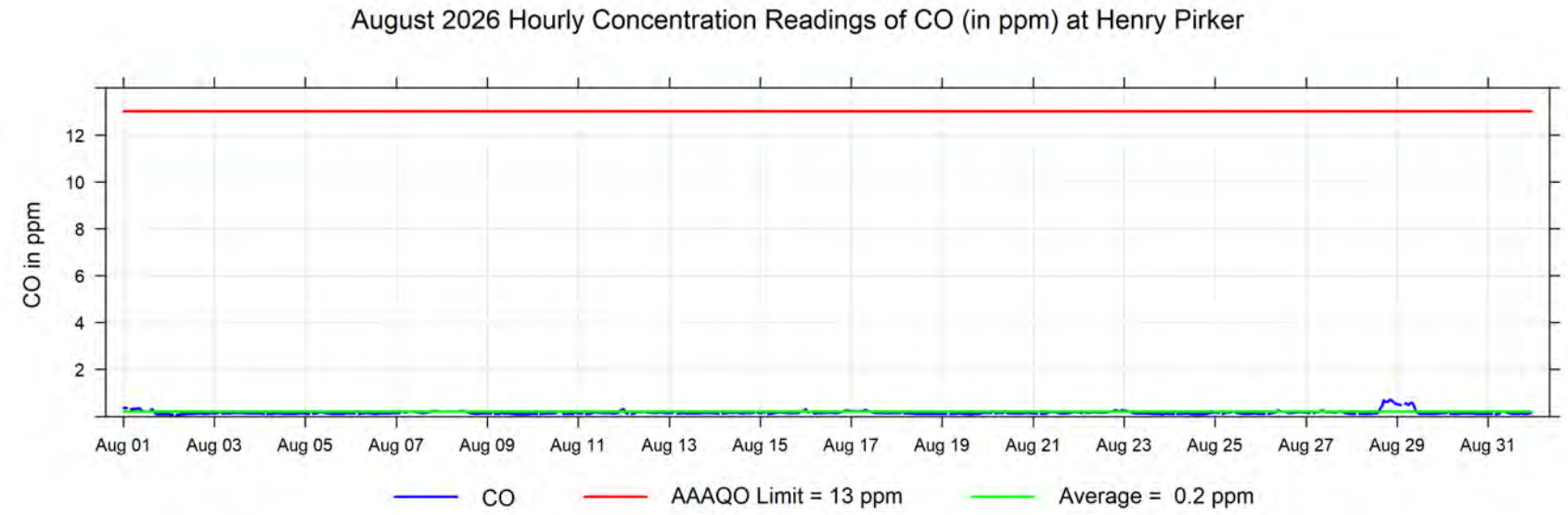

Number of Hours
0
200
400
600
84
57
79
124
134
113
59
35
18
6
1
0
20
40
60
O_3 in ppb

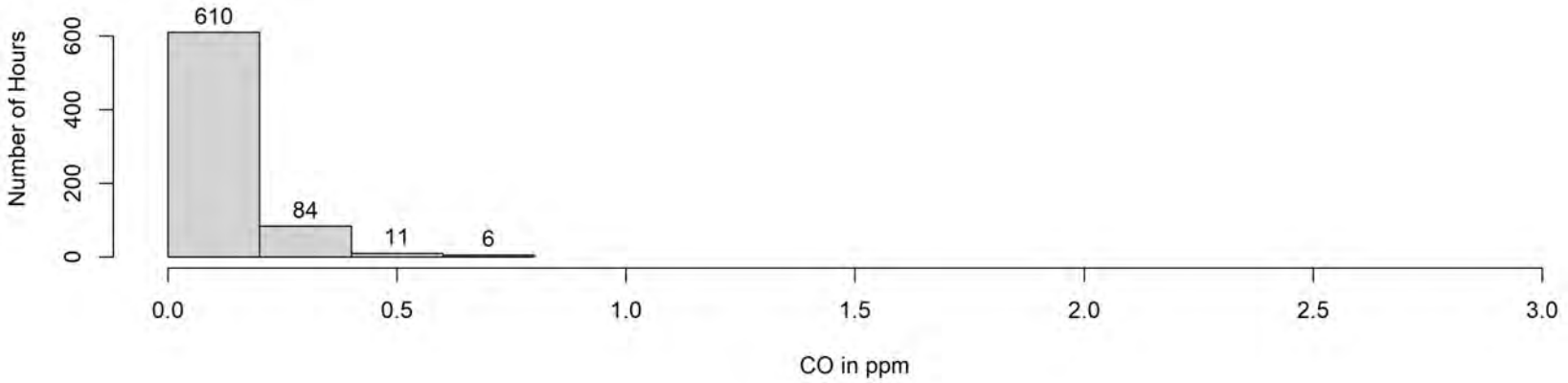

August 2026 Hourly Concentration Readings of THC (in ppm) at Henry Pirker
THC in ppm
8
6
4
2
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
THC
Average = 2.2 ppm

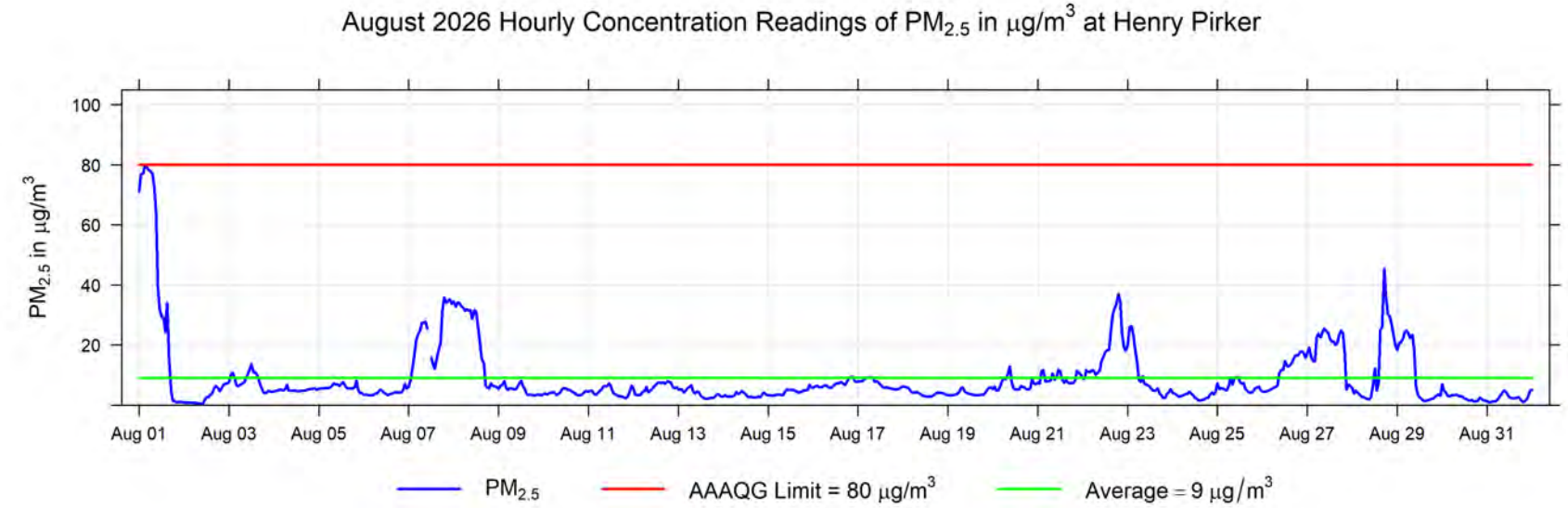

Number of Hours
0
200
400
600
438
216
50
3
1
1
0
0
1
0
1
2
3
4
5
6
THC in ppm

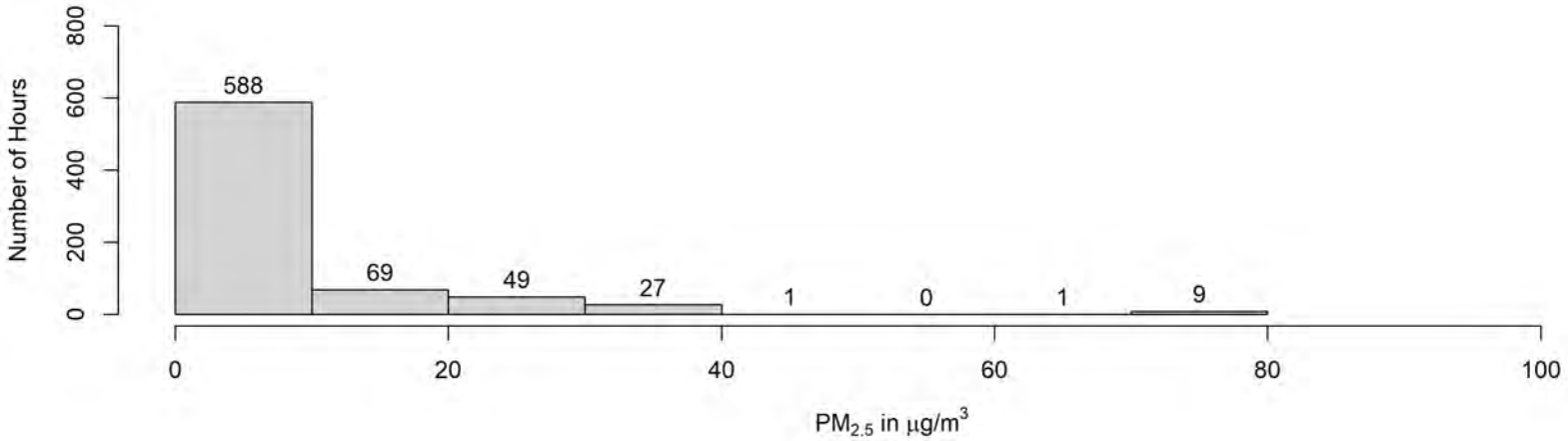

August 2026 Hourly Concentration Readings of CH4 (in ppm) at Henry Pirker
CH4 in ppm
2
4
6
8
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
CH4
Average = 2.2 ppm

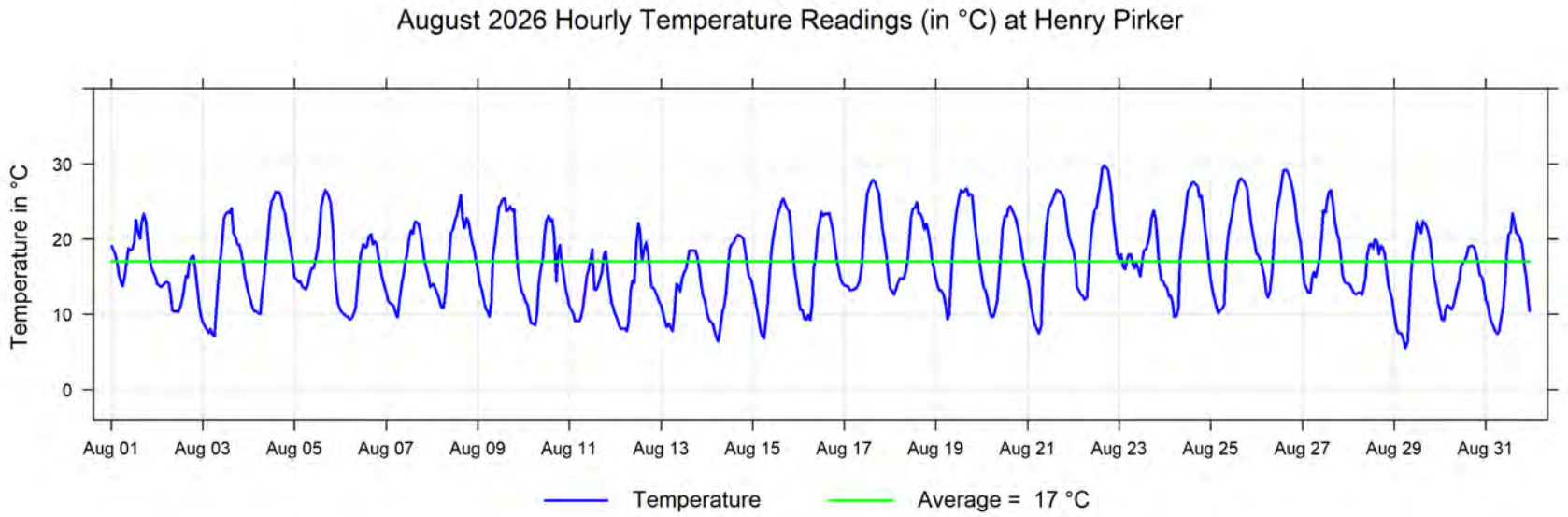

August 2026 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker
NMHC in ppm
2
4
6
8
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NMHC
Average = 0 ppm

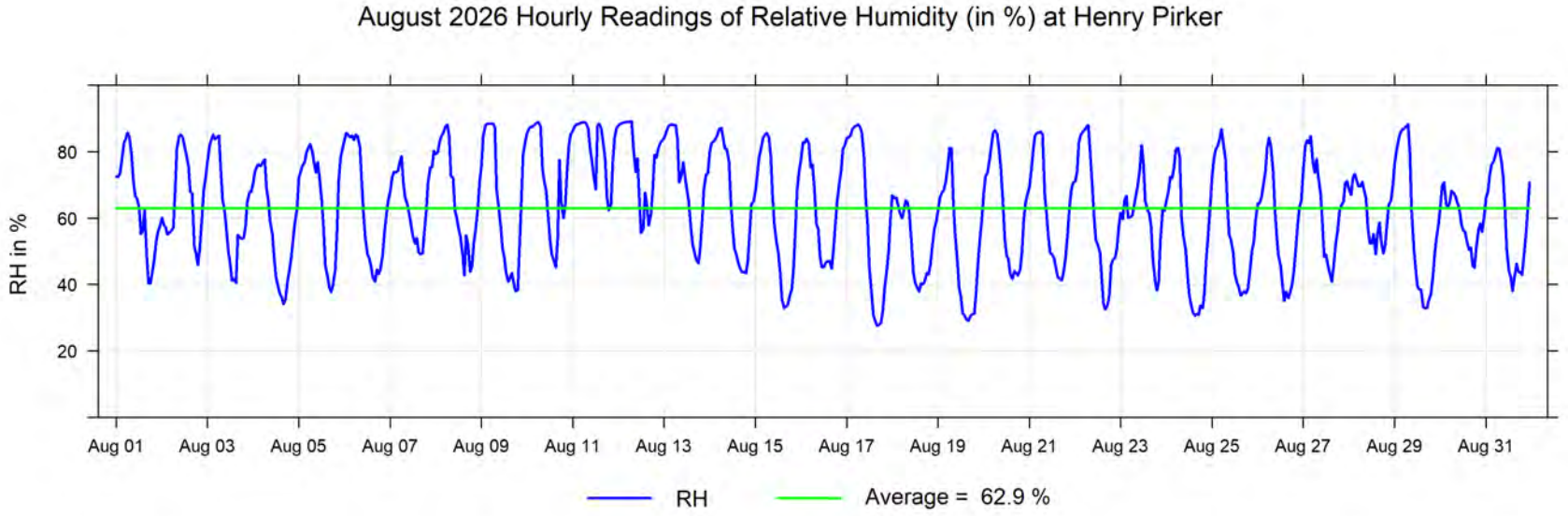

August 2026 Hourly Concentration Readings of CO (in ppm) at Henry Pirker
CO in ppm
12
10
8
6
4
2
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
CO
AAAQO Limit = 13 ppm
Average = 0.2 ppm

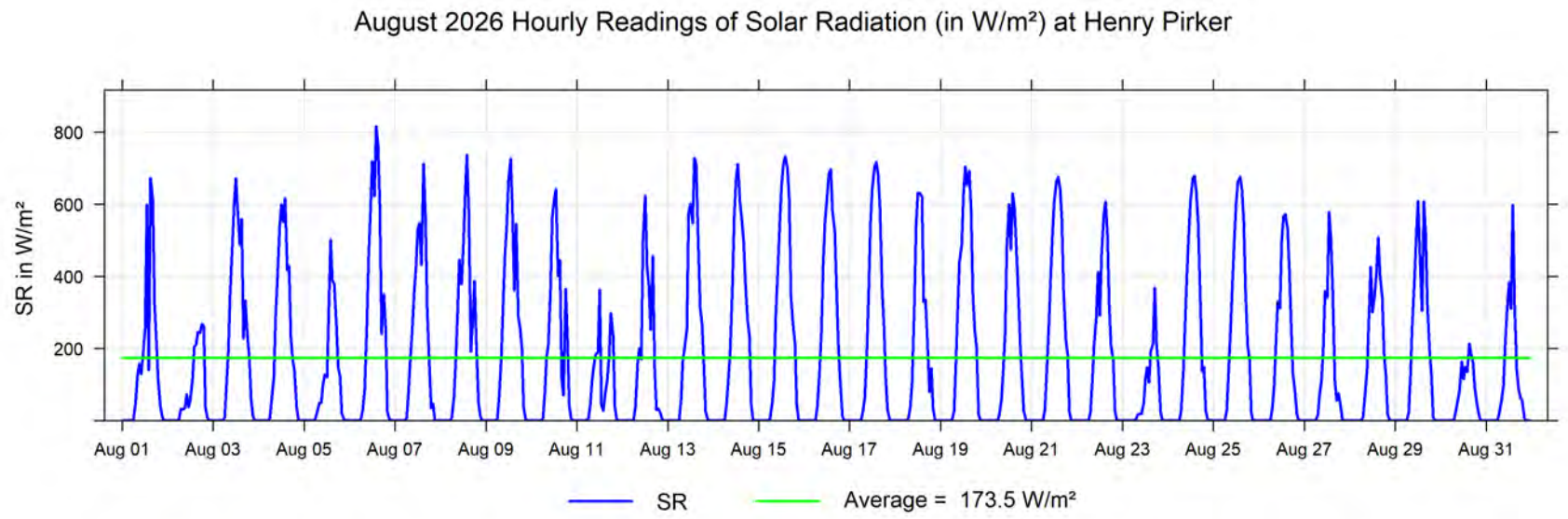

Number of Hours
0
200
400
600
610
84
11
6
0.0
0.5
1.0
1.5
2.0
2.5
3.0
CO in ppm

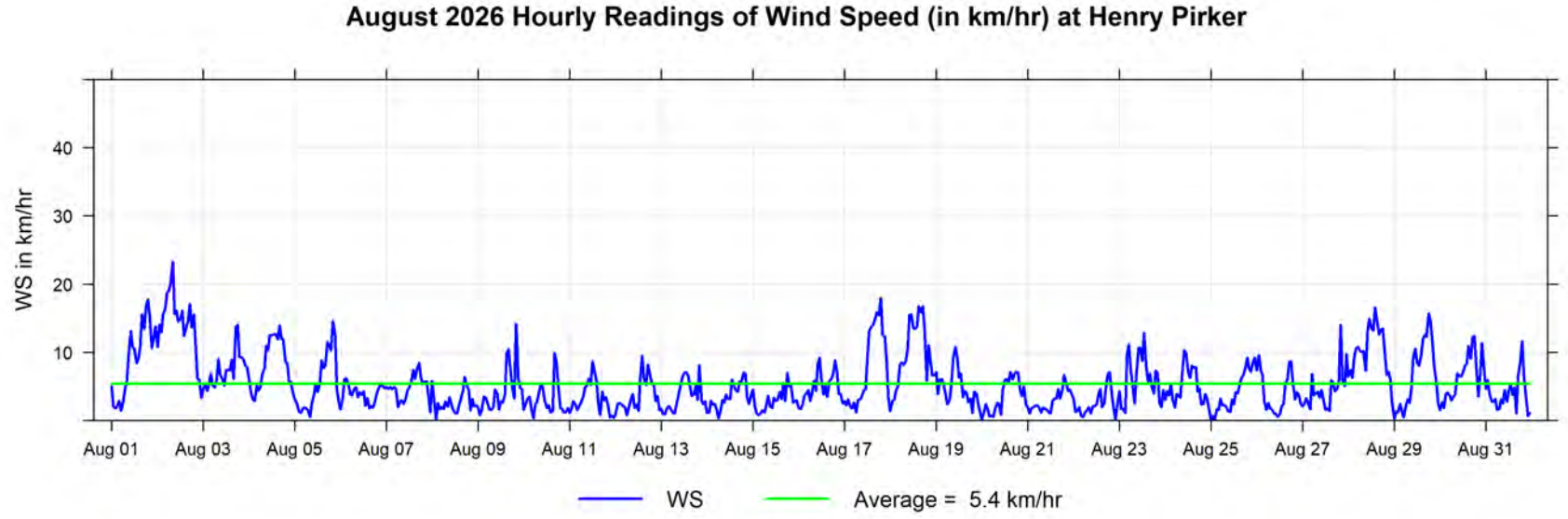

August 2026 Hourly Concentration Readings of PM2.5 in µg/m3 at Henry Pirker
PM2.5 in µg/m3
100
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
PM2.5
AAAQG Limit = 80 µg/m3
Average = 9 µg/m3

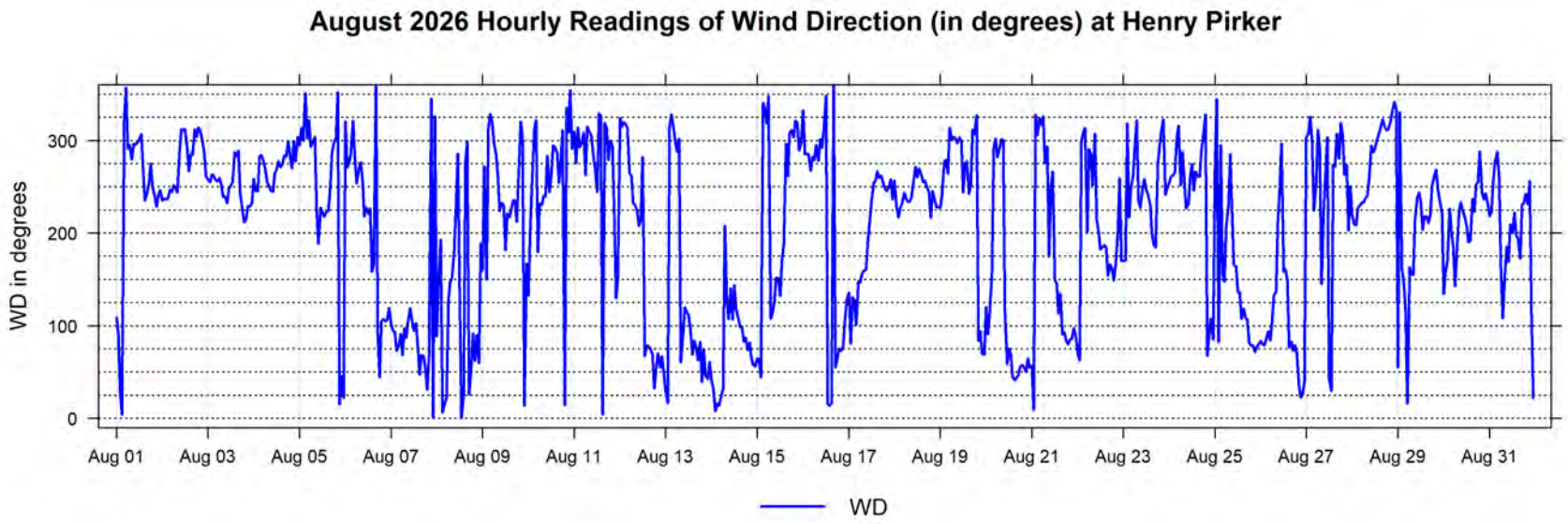

Number of Hours
0
200
400
600
800
588
69
49
27
1
0
1
9
0
20
40
60
80
100
PM2.5 in µg/m3

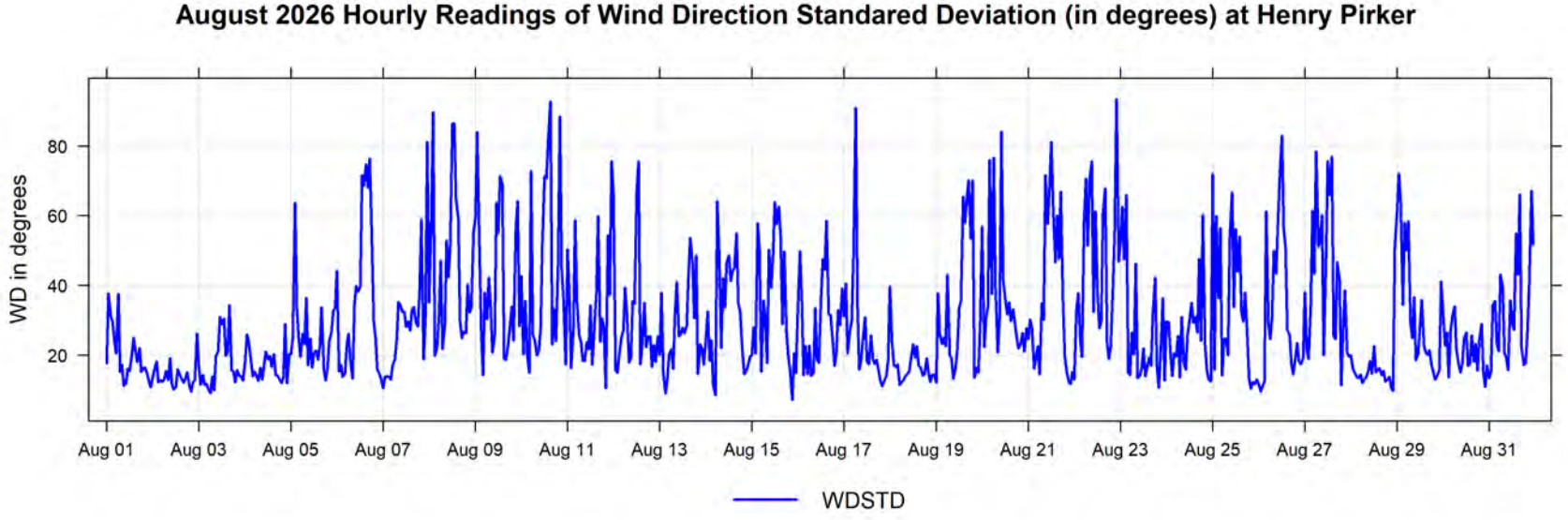

August 2026 Hourly Temperature Readings (in °C) at Henry Pirker
Temperature in °C
0
10
20
30
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
Temperature
Average = 17 °C

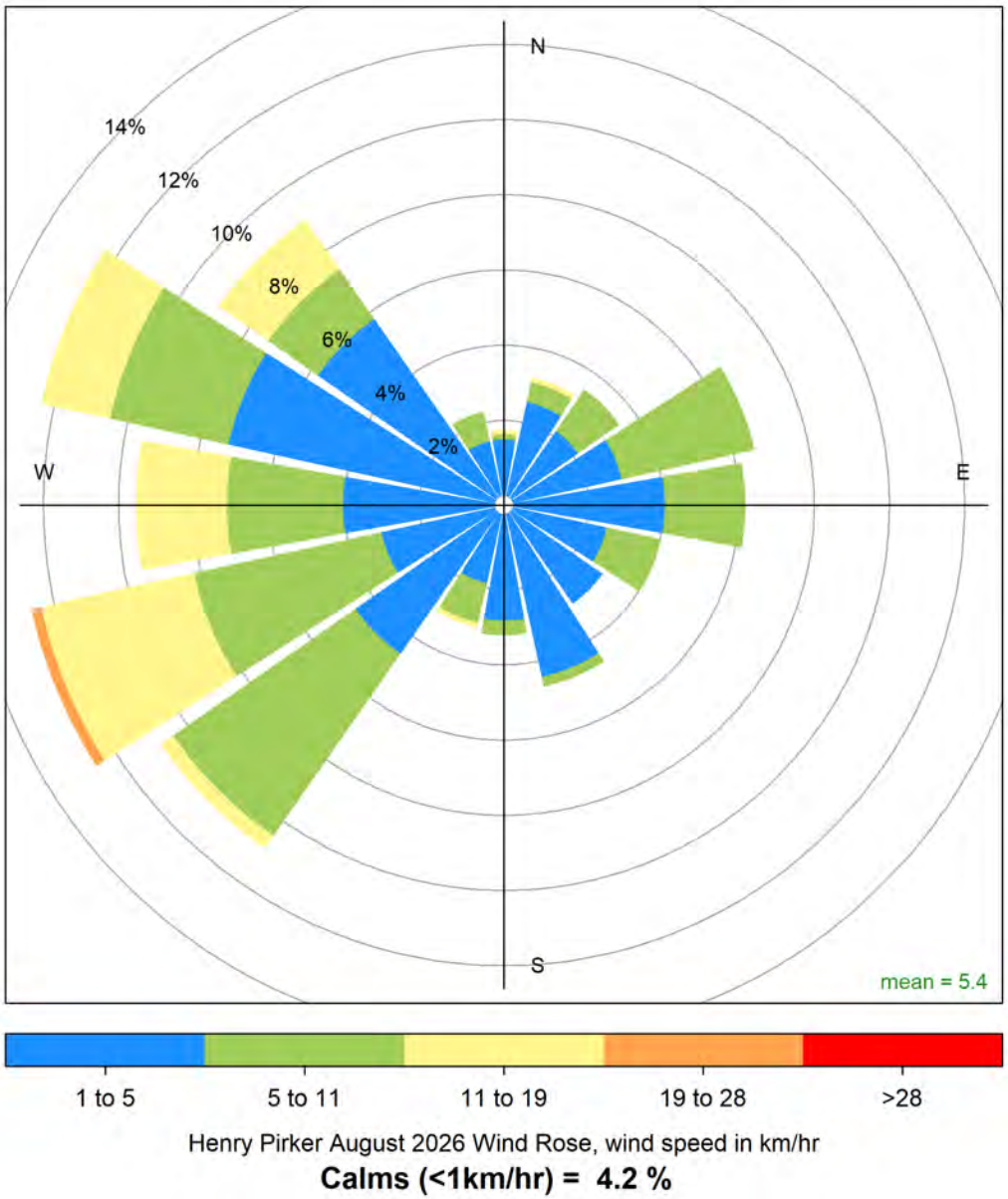

August 2026 Hourly Readings of Relative Humidity (in %) at Henry Pirker
RH in %
20
40
60
80
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
RH
Average = 62.9 %


August 2026 Hourly Readings of Solar Radiation (in W/m²) at Henry Pirker
SR in W/m²
800
600
400
200
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
SR
Average = 173.5 W/m²


August 2026 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker
WS in km/hr
40
30
20
10
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WS
Average = 5.4 km/hr


August 2026 Hourly Readings of Wind Direction (in degrees) at Henry Pirker
WD in degrees
0
100
200
300
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WD


August 2026 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Henry Pirker
WD in degrees
20
40
60
80
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WDSTD

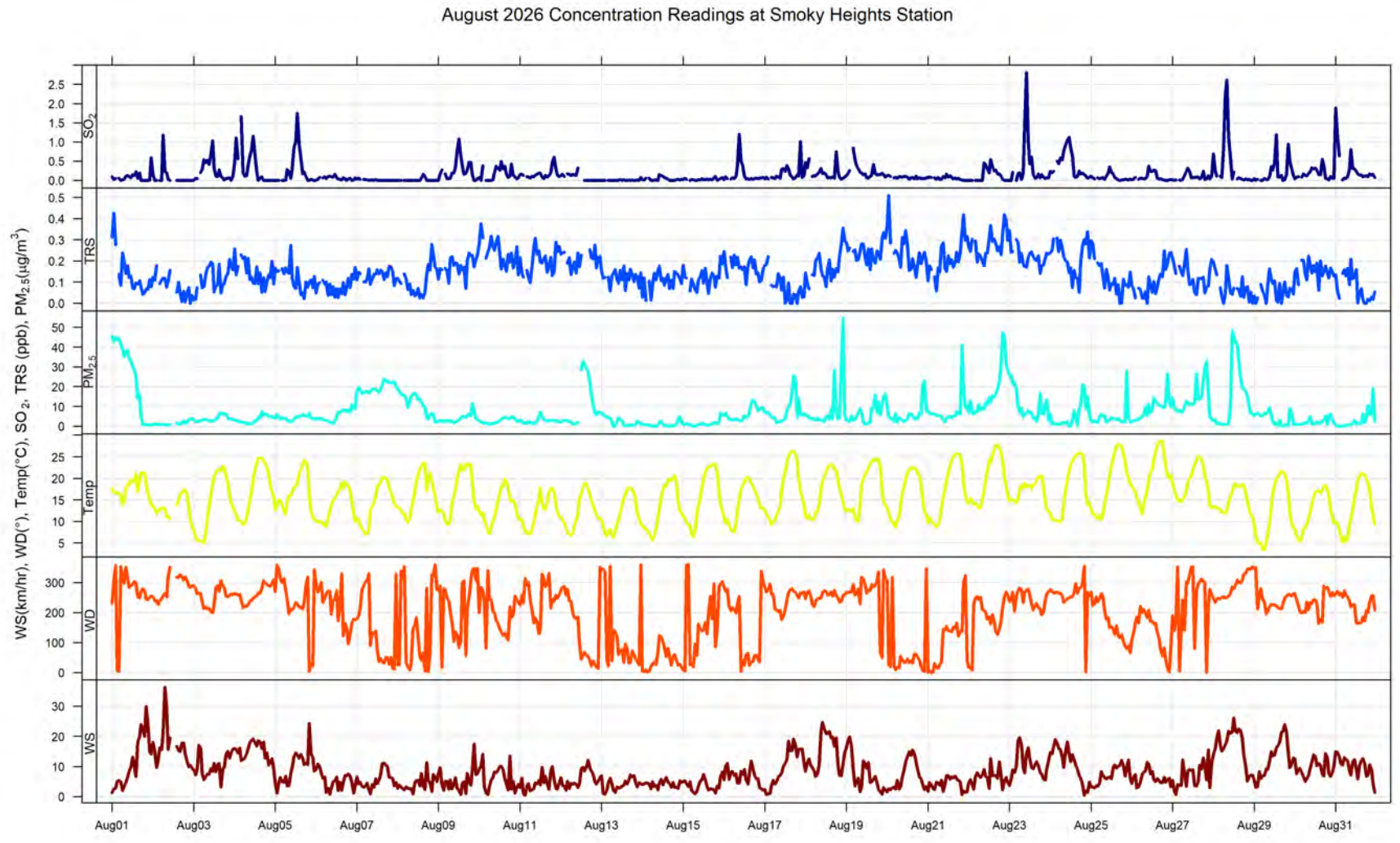


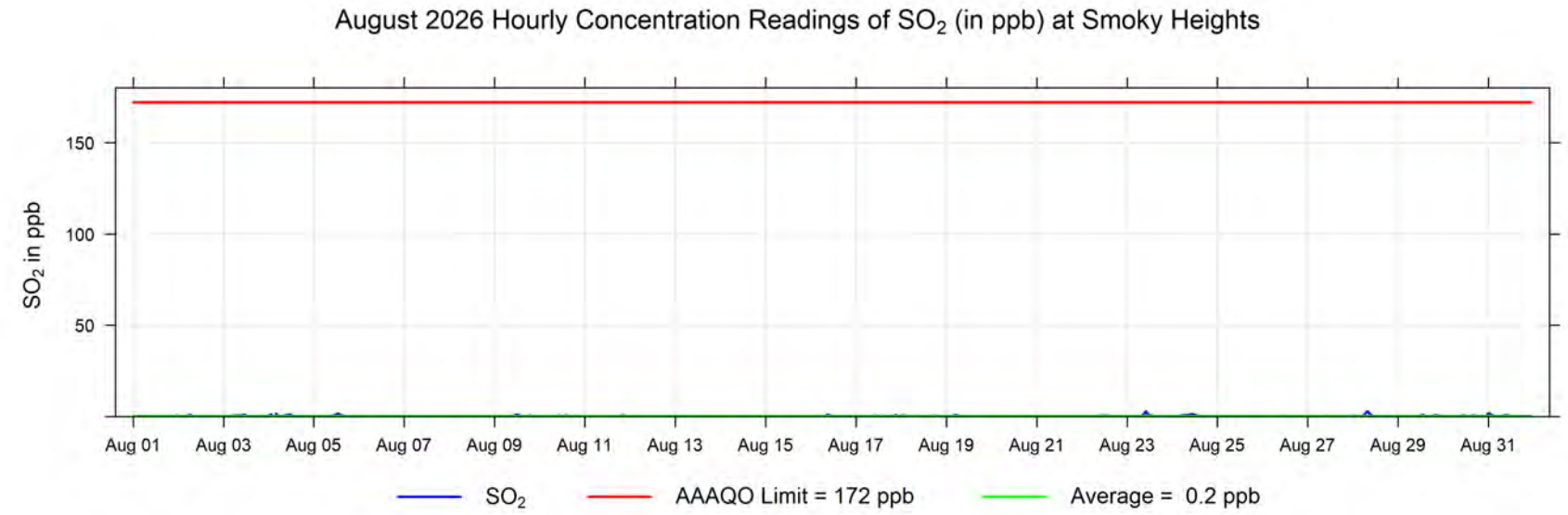
Henry Pirker August 2026 Wind Rose, wind speed in km/hr

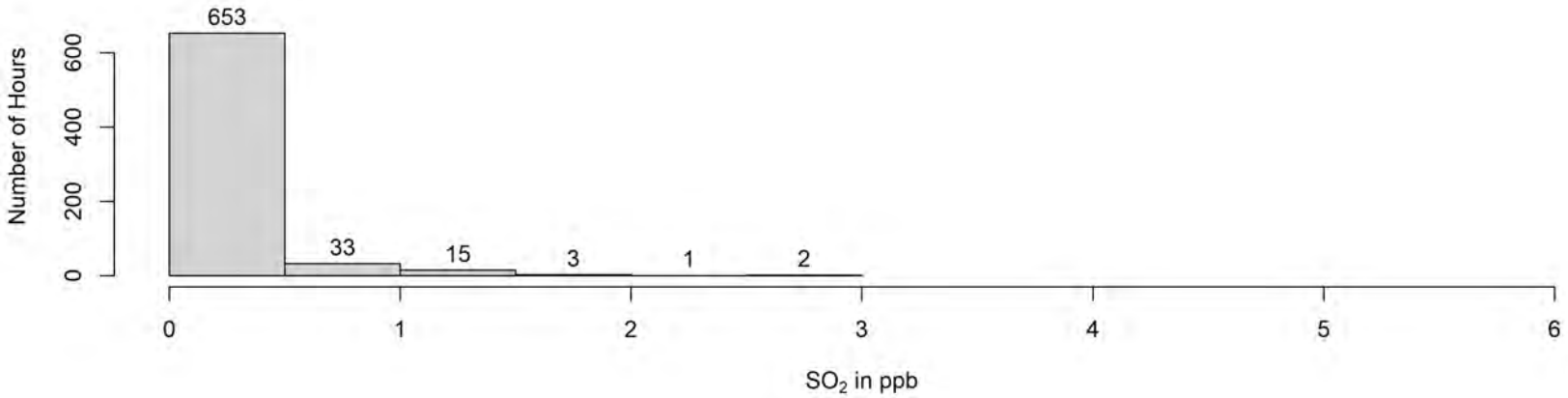
Calms (<1km/hr) = 4.2 %

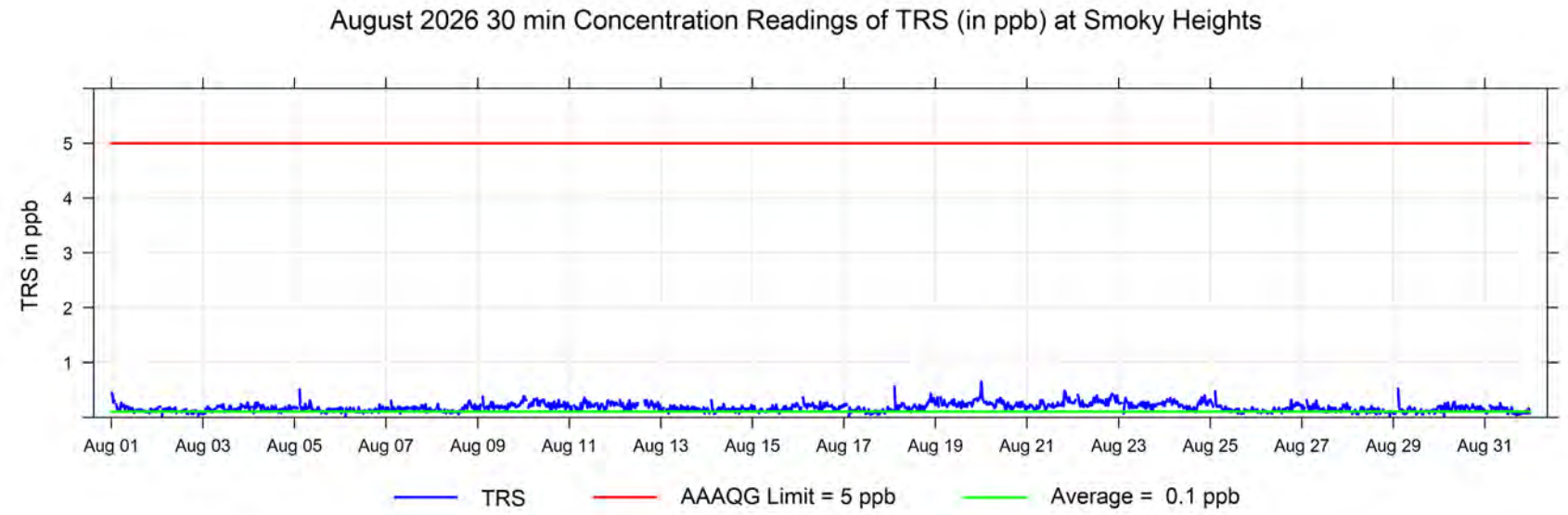
5 Smoky Heights Charts

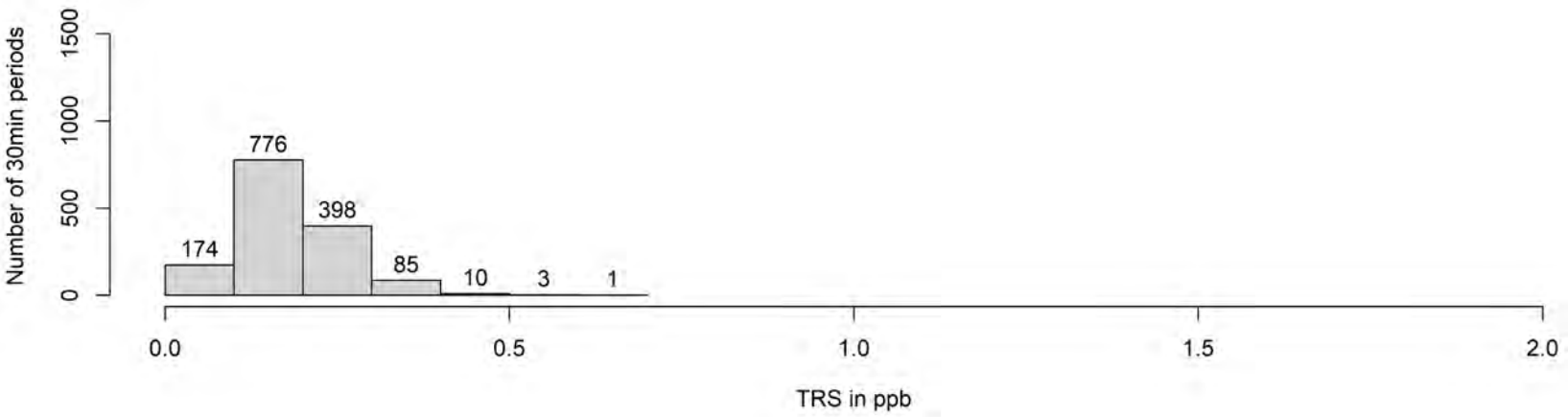
The following pages include the charts and histograms for Smoky Heights Station

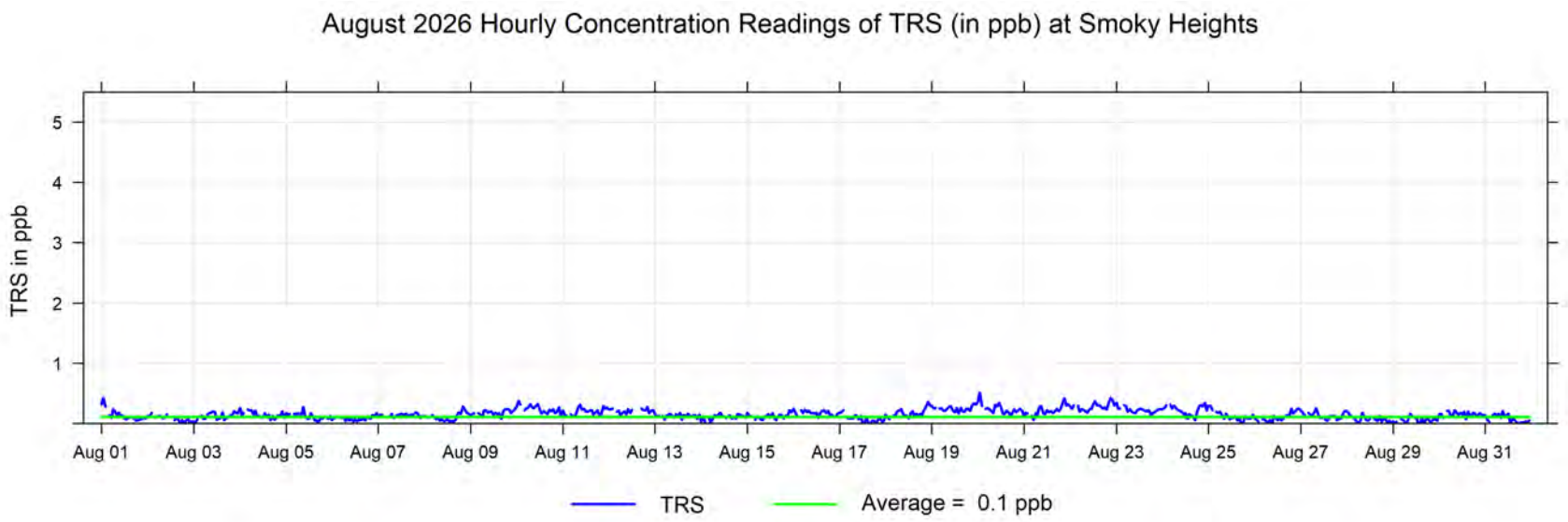


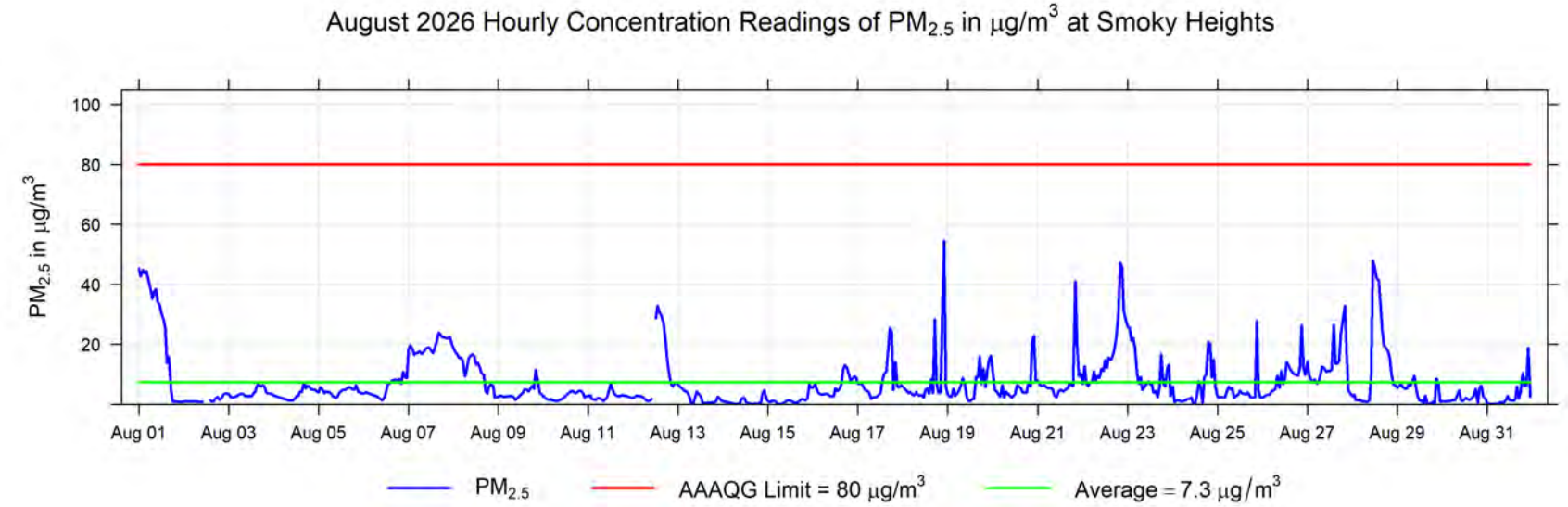

August 2026 Hourly Concentration Readings of SO2 (in ppb) at Smoky Heights
SO2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
SO2
AAAQO Limit = 172 ppb
Average = 0.2 ppb

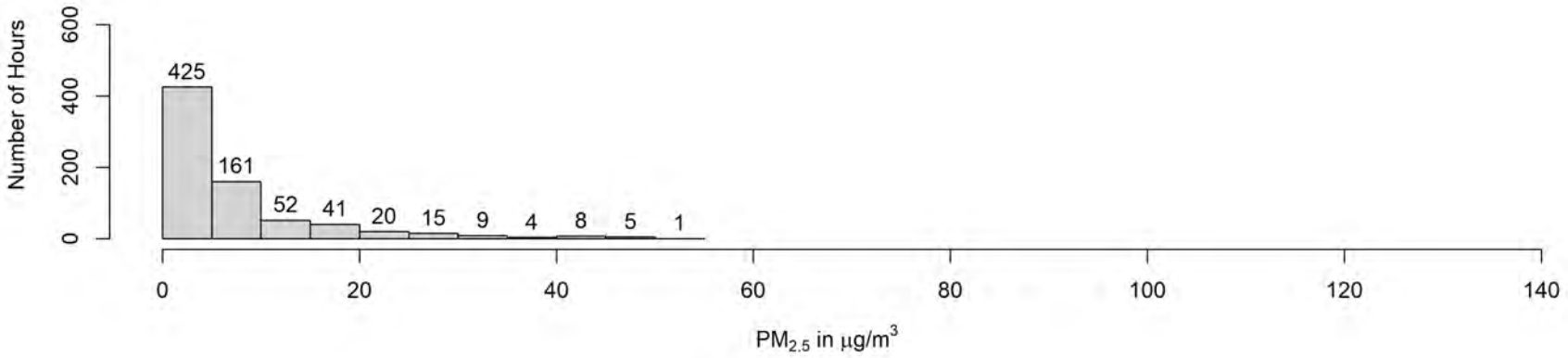

Number of Hours
0
200
400
600
653
33
15
3
1
2
0
1
2
3
4
5
6
SO2 in ppb

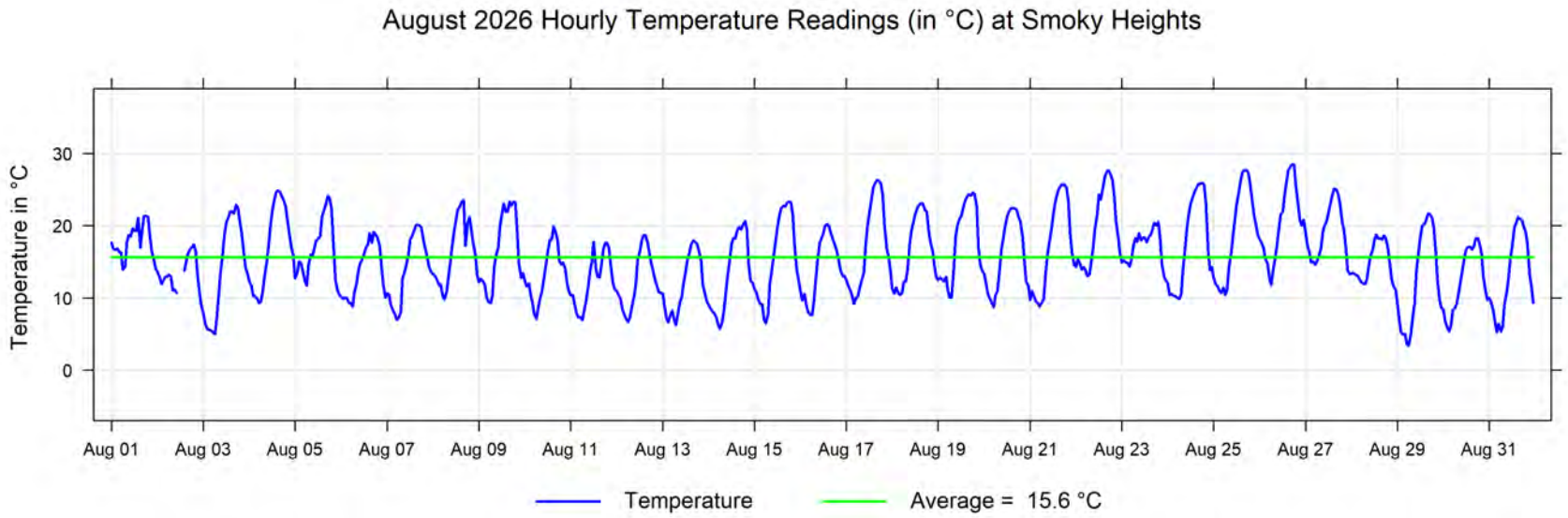

August 2026 30 min Concentration Readings of TRS (in ppb) at Smoky Heights
TRS in ppb
1
2
3
4
5
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
TRS
AAAQG Limit = 5 ppb
Average = 0.1 ppb

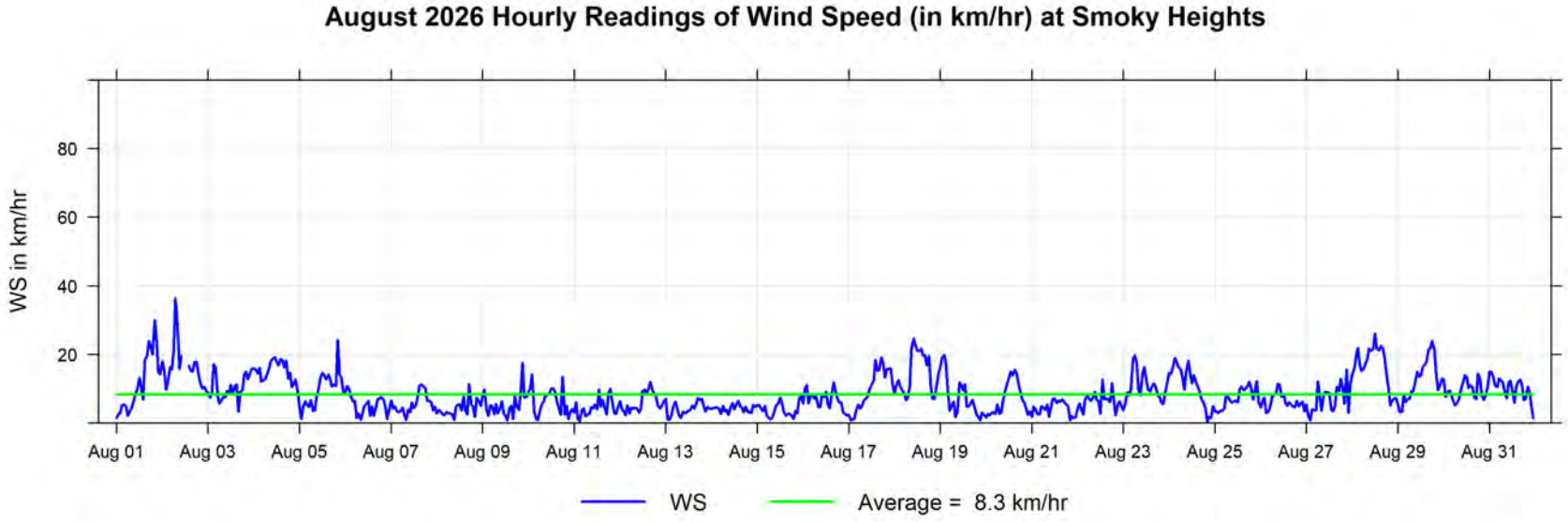

Number of 30min periods
0
500
1000
1500
174
776
398
85
10
3
1
0.0
0.5
1.0
1.5
2.0
TRS in ppb

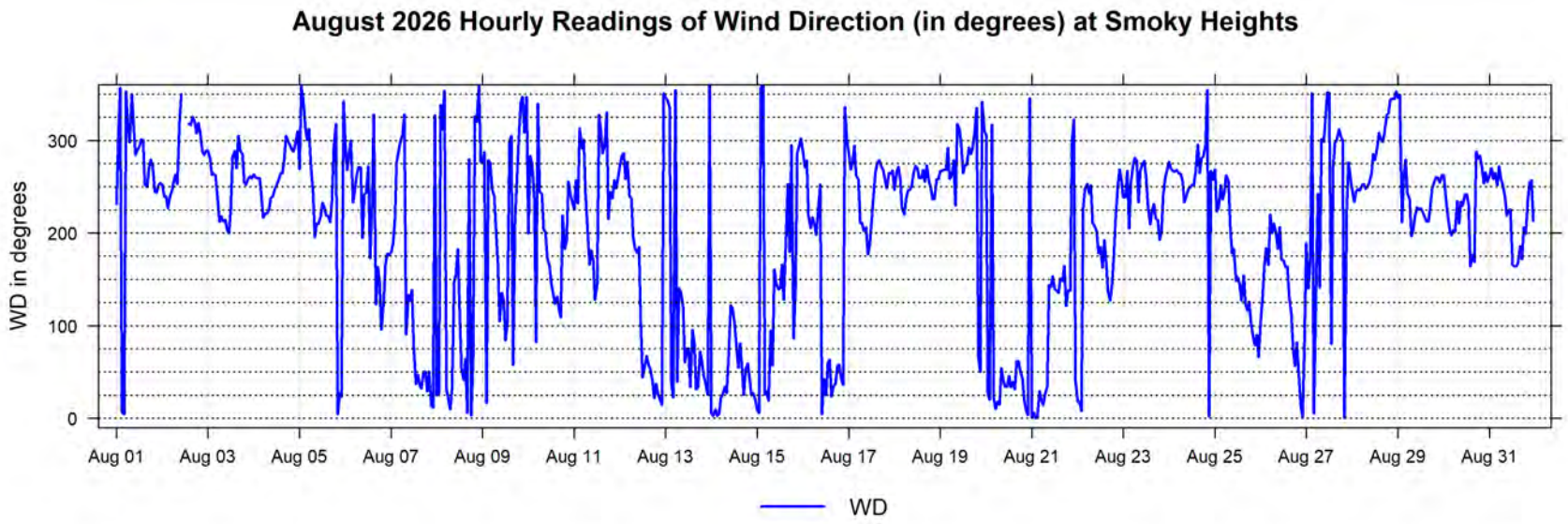

August 2026 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights
TRS in ppb
5
4
3
2
1
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
TRS
Average = 0.1 ppb

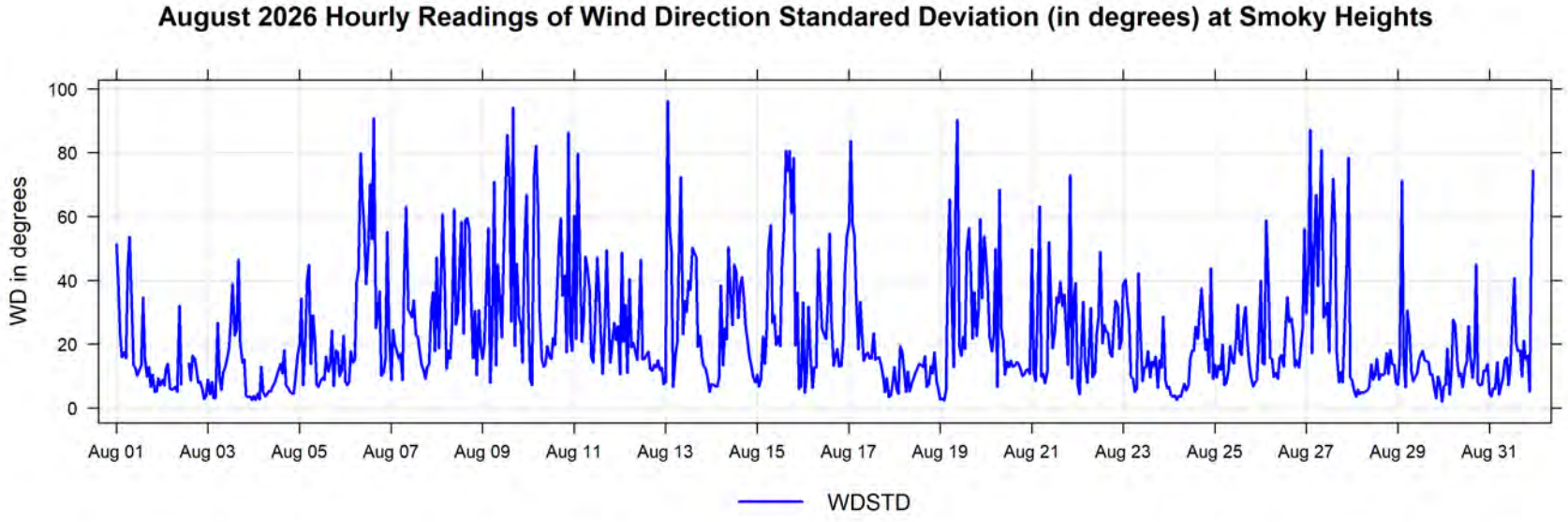

August 2026 Hourly Concentration Readings of PM2.5 in µg/m3 at Smoky Heights
PM2.5 in µg/m3
100
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
PM2.5
AAAQG Limit = 80 µg/m3
Average = 7.3 µg/m3

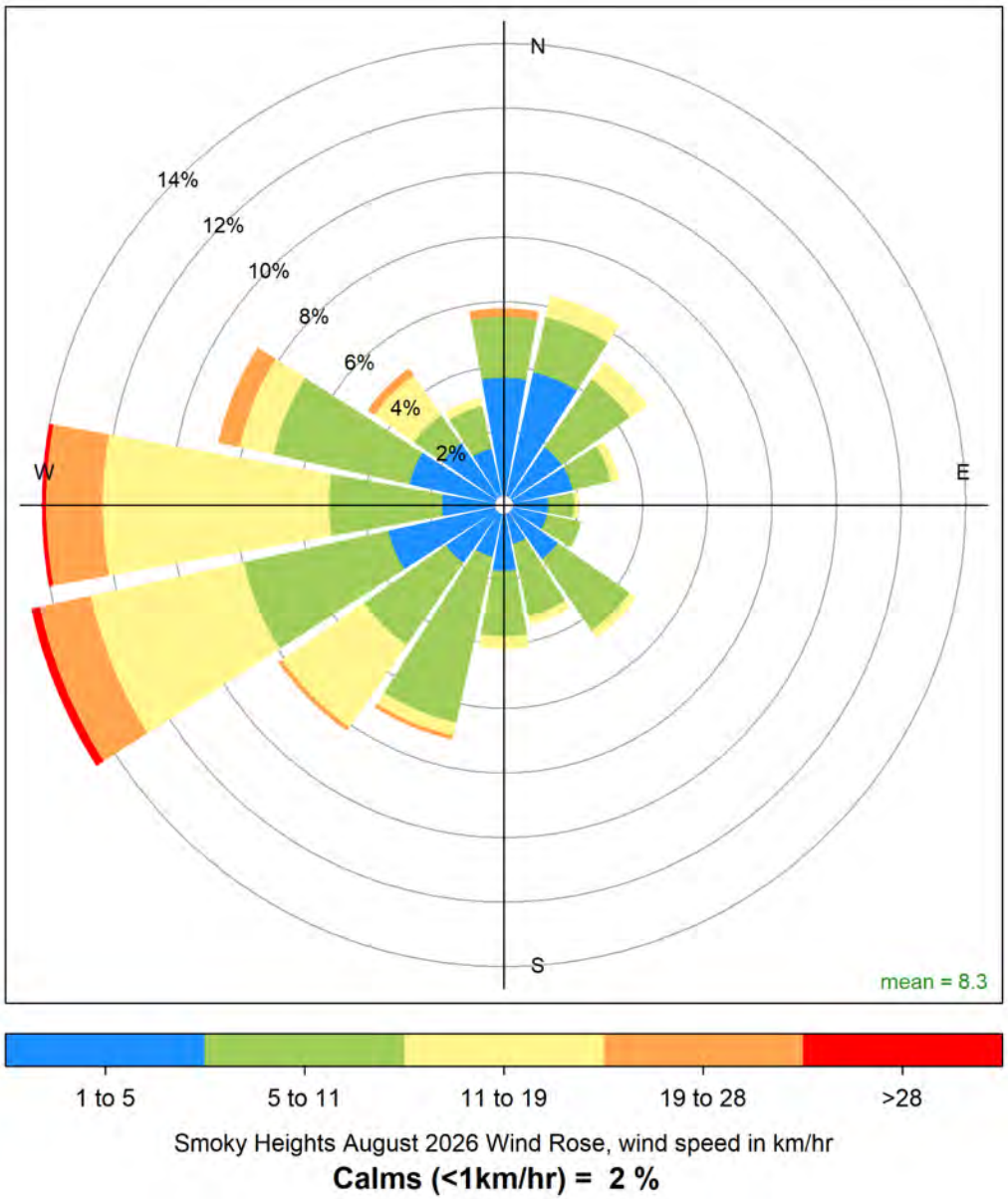

Number of Hours
0
200
400
600
425
161
52
41
20
15
9
4
8
5
1
0
20
40
60
80
100
120
140
PM2.5 in µg/m3


August 2026 Hourly Temperature Readings (in °C) at Smoky Heights
Temperature in °C
30
20
10
0
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
Temperature
Average = 15.6 °C


August 2026 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights
WS in km/hr
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WS
Average = 8.3 km/hr


August 2026 Hourly Readings of Wind Direction (in degrees) at Smoky Heights
WD in degrees
0
100
200
300
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WD


August 2026 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Smoky Heights
WD in degrees
0
20
40
60
80
100
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WDSTD

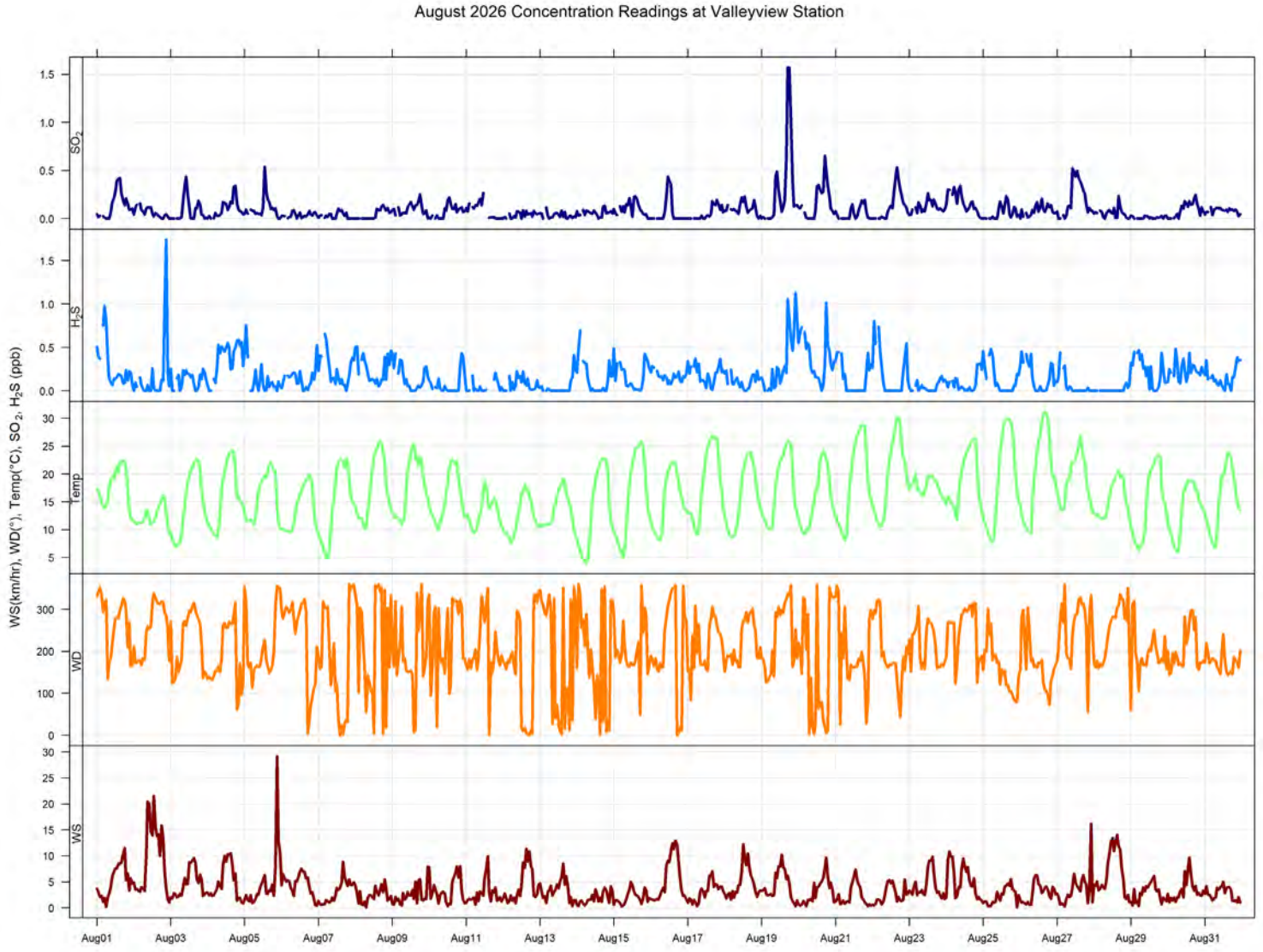


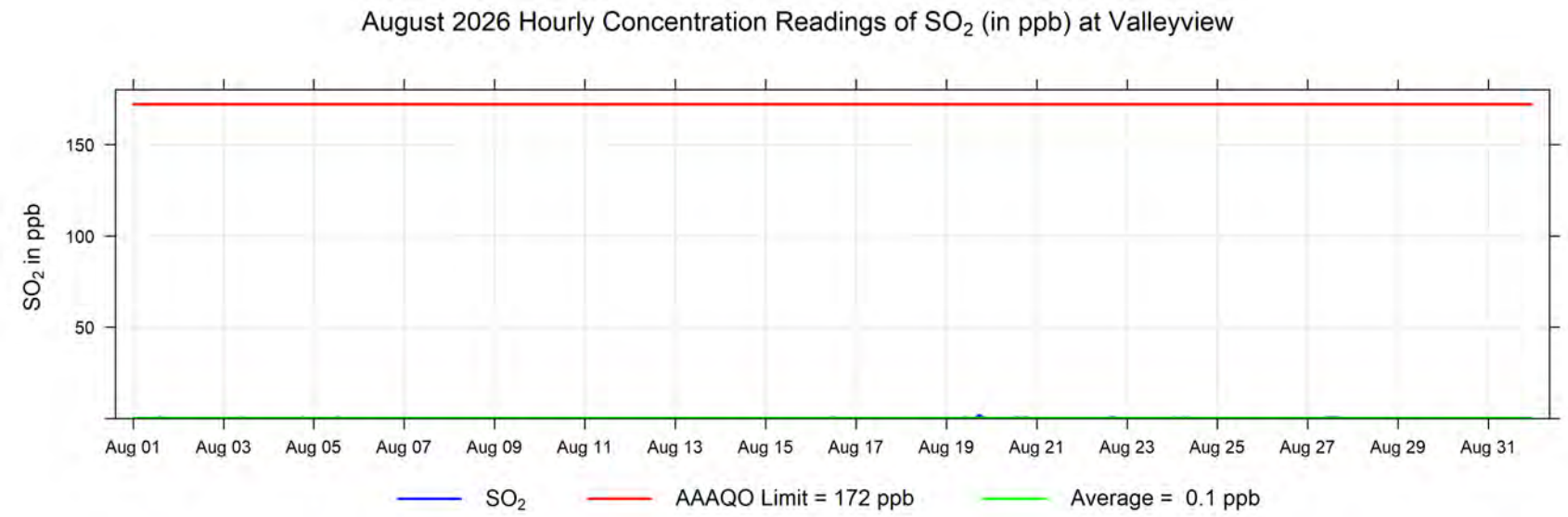
Smoky Heights August 2026 Wind Rose, wind speed in km/hr

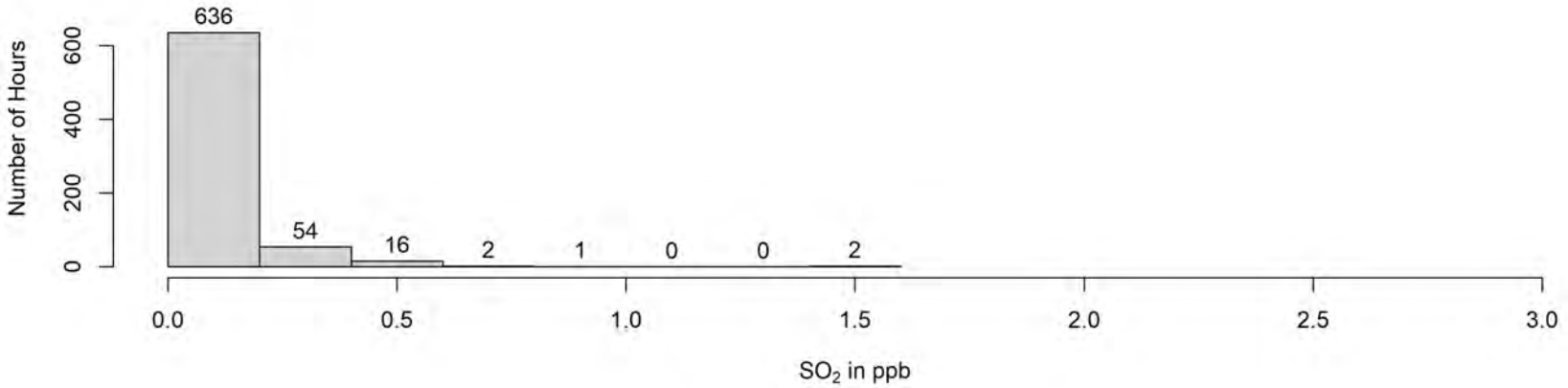
Calms (<1km/hr) = 2 %

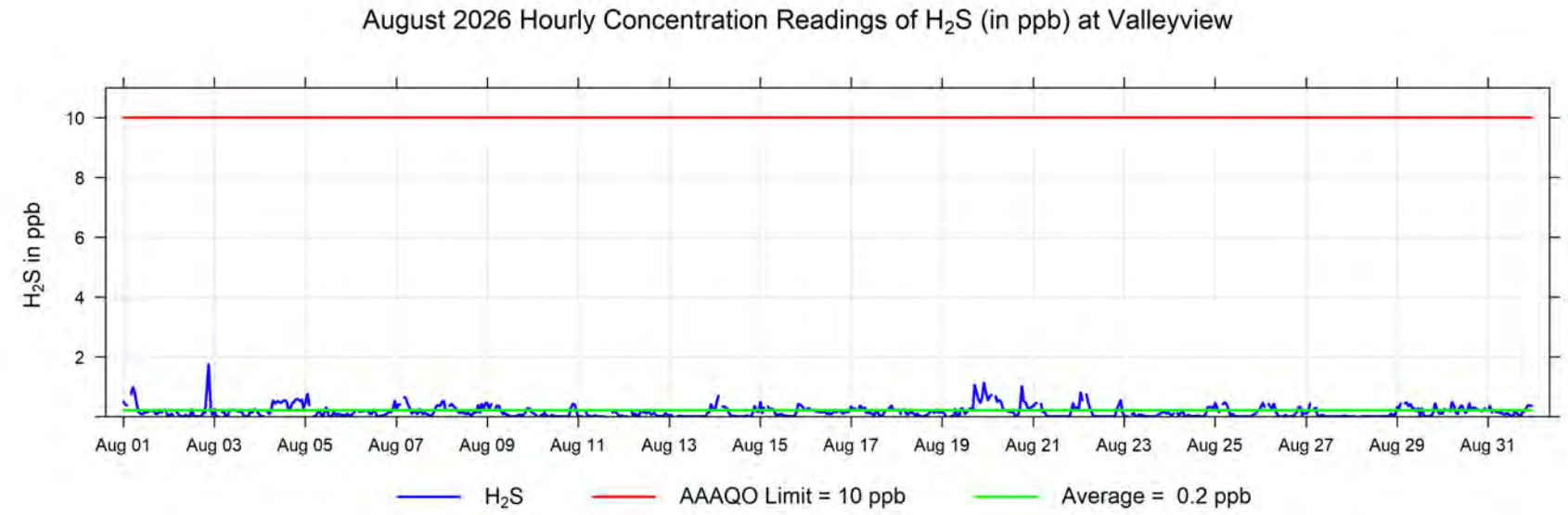
6 Valleyview Charts

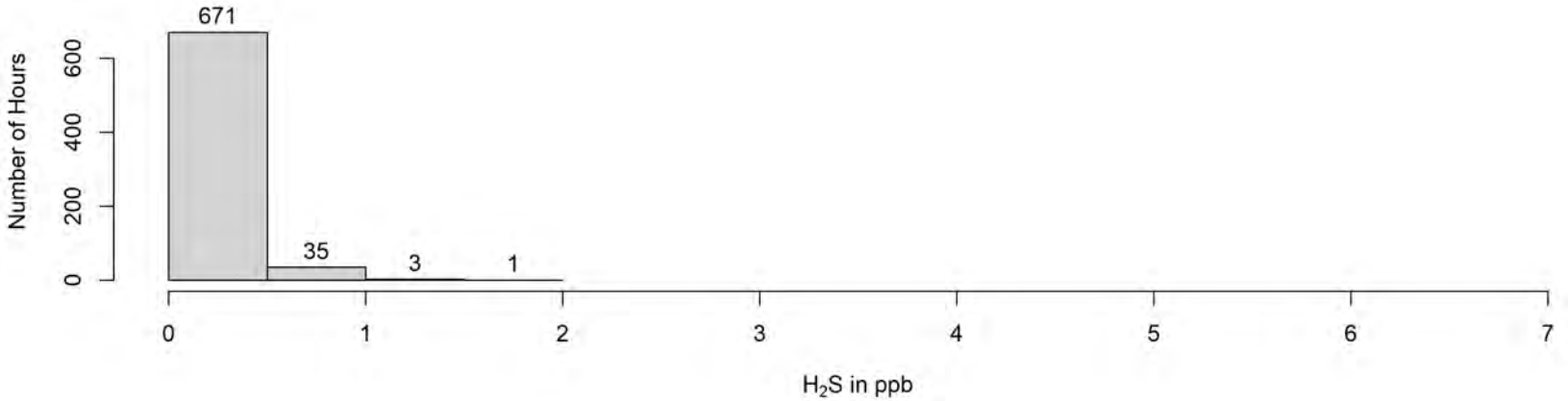
The following pages include the charts and histograms for Valleyview Station

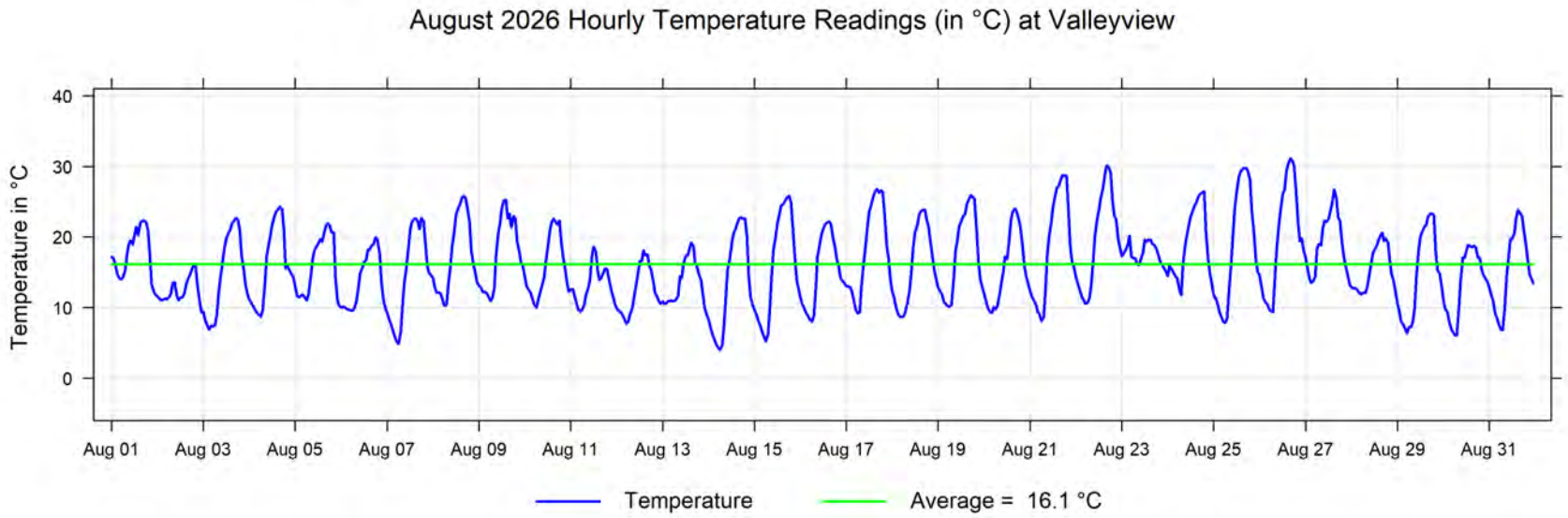


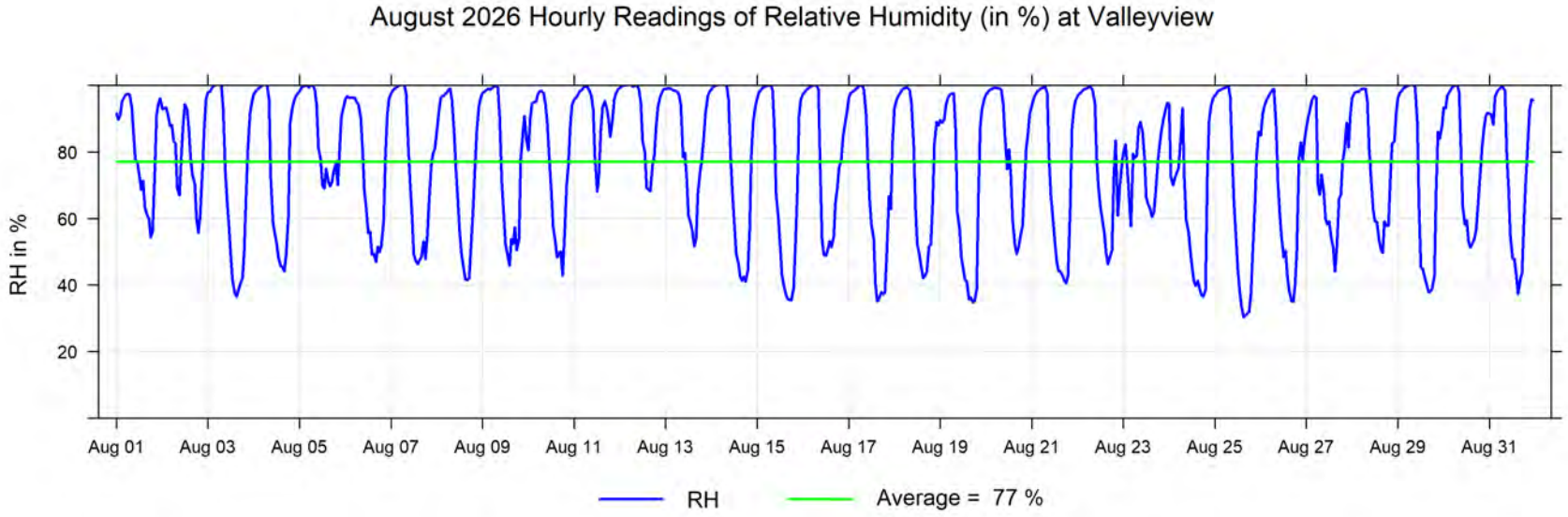

August 2026 Hourly Concentration Readings of SO2 (in ppb) at Valleyview
SO2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
SO2
AAAQO Limit = 172 ppb
Average = 0.1 ppb

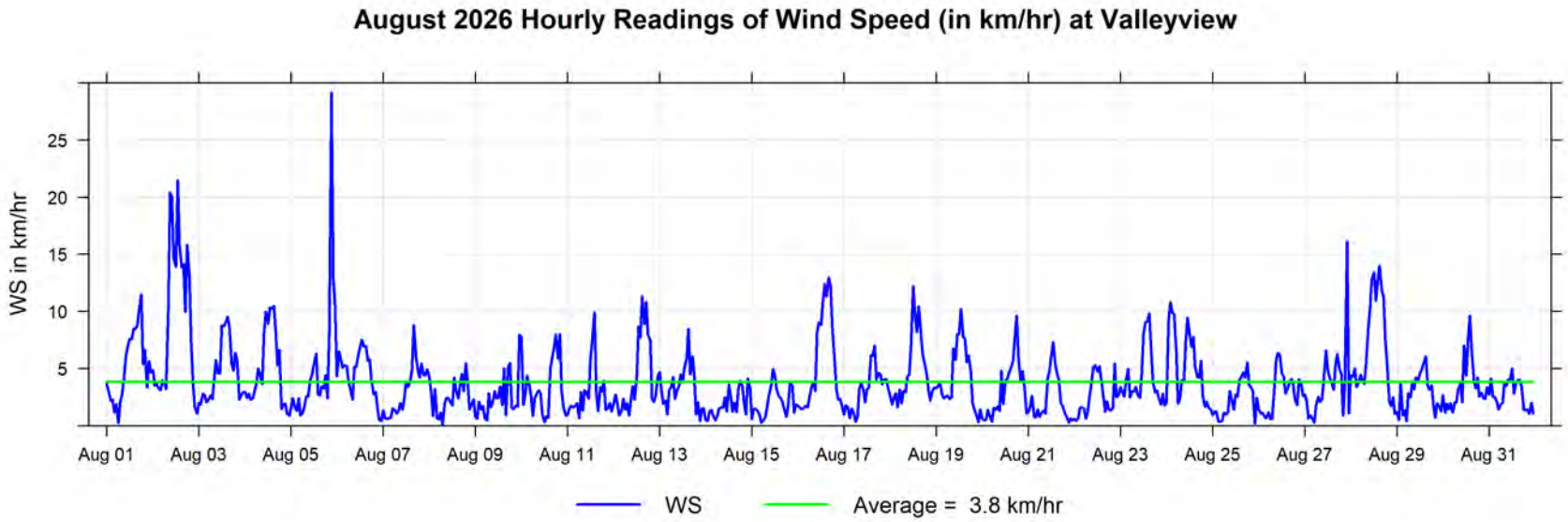

Number of Hours
0
200
400
600
636
54
16
2
1
0
0
2
0.0
0.5
1.0
1.5
2.0
2.5
3.0
SO2 in ppb

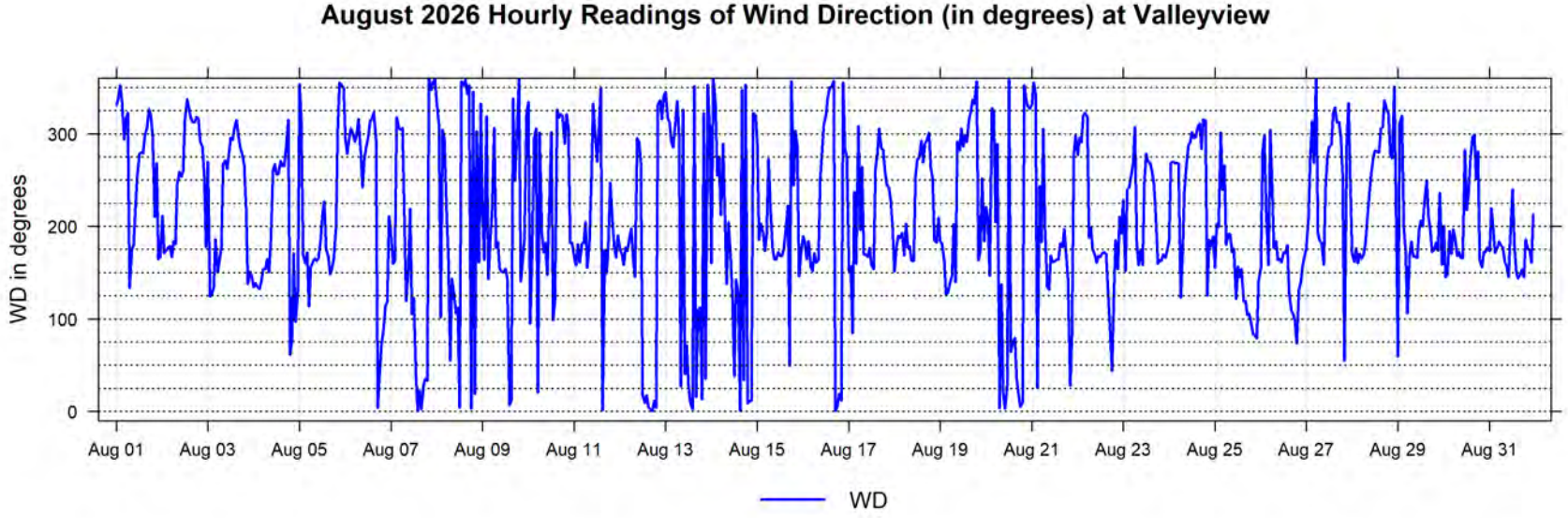

August 2026 Hourly Concentration Readings of H2S (in ppb) at Valleyview
H2S in ppb
10
8
6
4
2
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
H2S
AAAQO Limit = 10 ppb
Average = 0.2 ppb

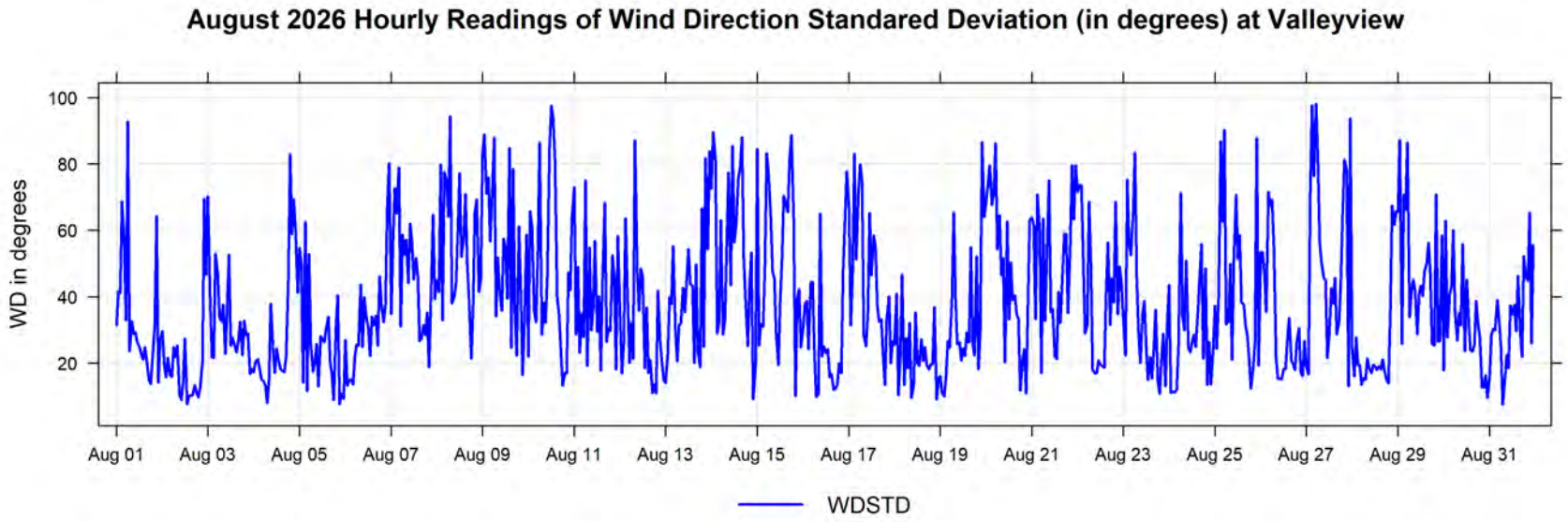

Number of Hours
0
200
400
600
671
35
3
1
0
1
2
3
4
5
6
7
H2S in ppb

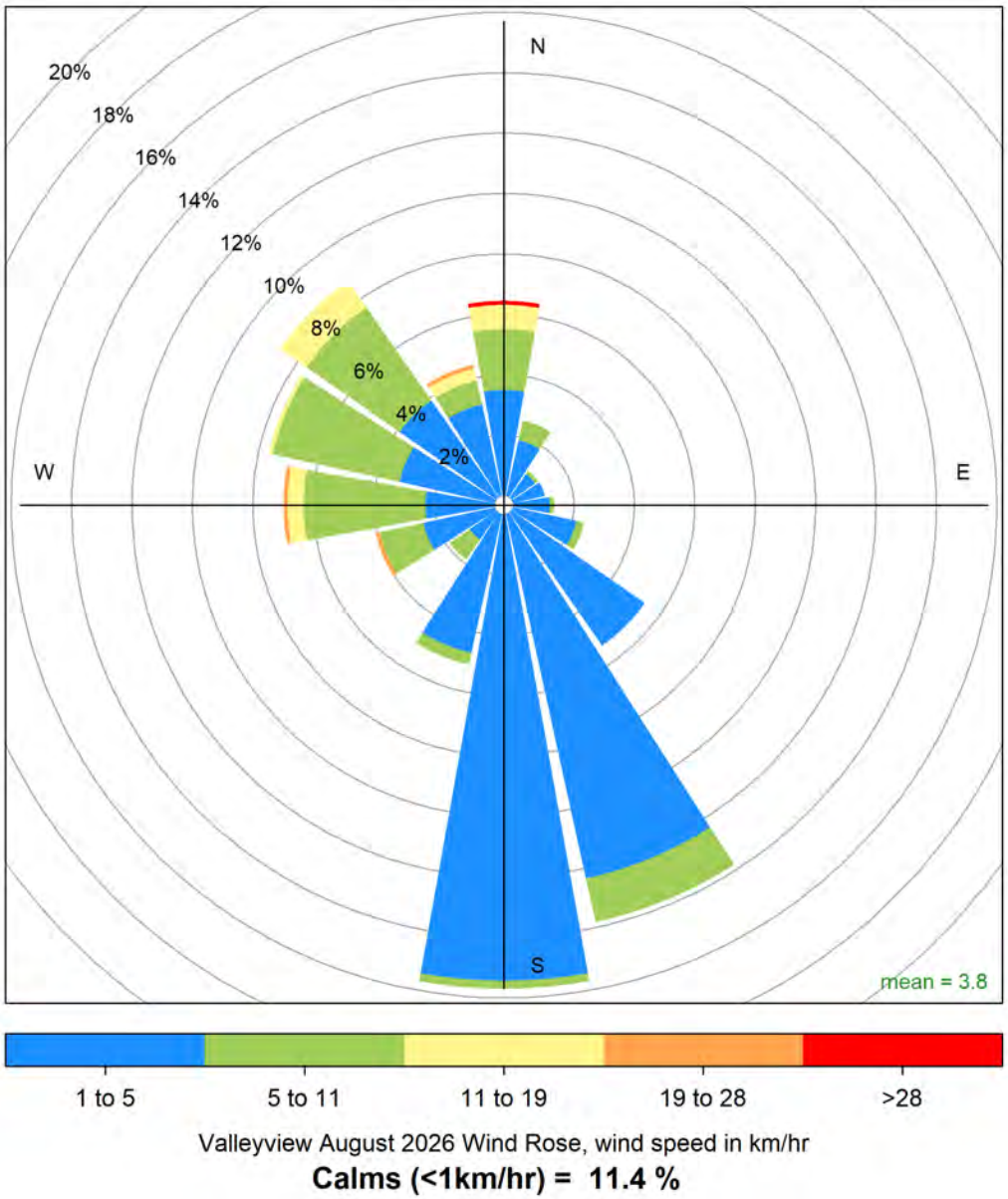

August 2026 Hourly Temperature Readings (in °C) at Valleyview
Temperature in °C
40
30
20
10
0
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
Temperature
Average = 16.1 °C


August 2026 Hourly Readings of Relative Humidity (in %) at Valleyview
RH in %
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
RH
Average = 77 %


August 2026 Hourly Readings of Wind Speed (in km/hr) at Valleyview
WS in km/hr
25
20
15
10
5
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WS
Average = 3.8 km/hr


August 2026 Hourly Readings of Wind Direction (in degrees) at Valleyview
WD in degrees
300
200
100
0
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WD


August 2026 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Valleyview
WD in degrees
100
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WDSTD

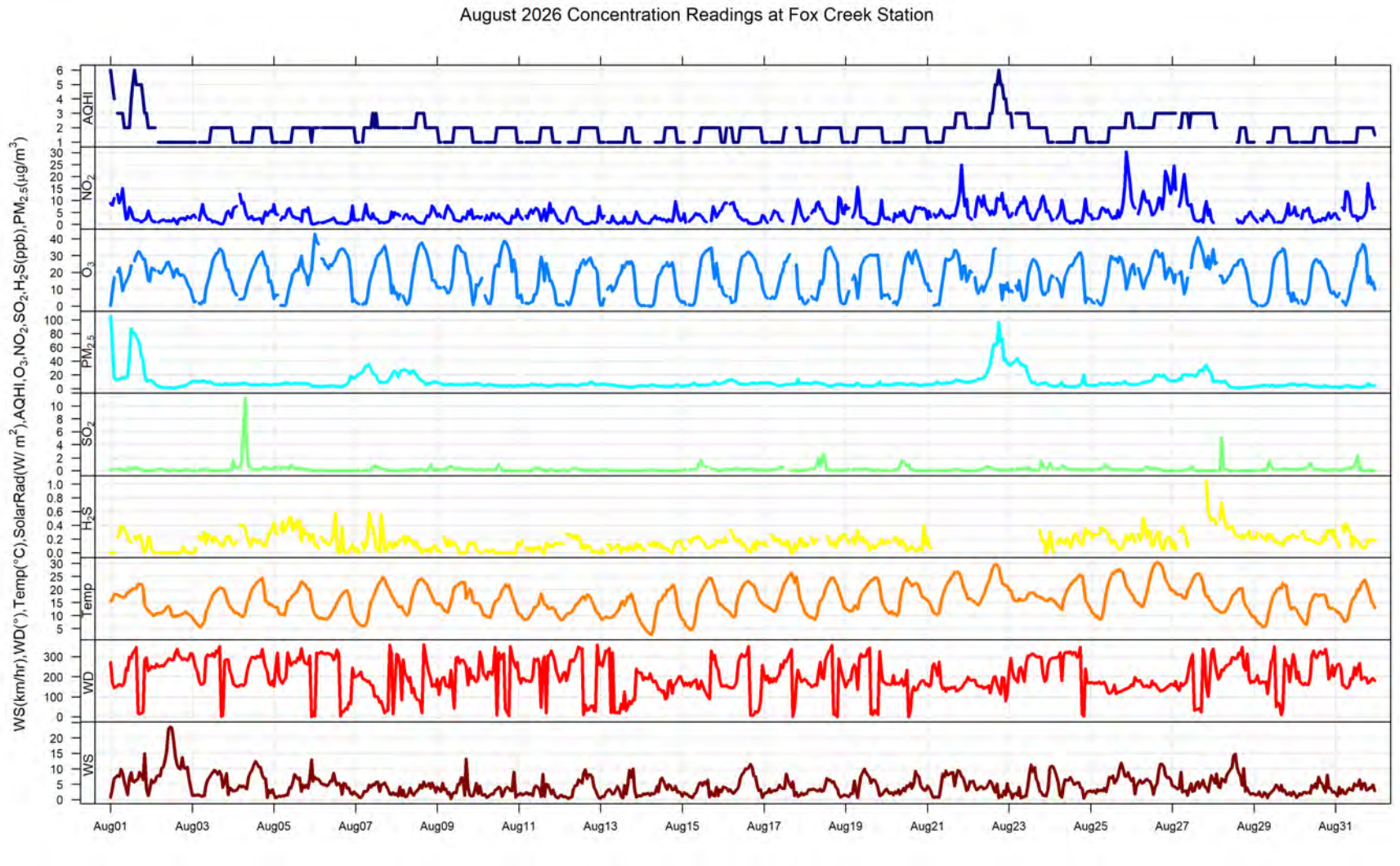


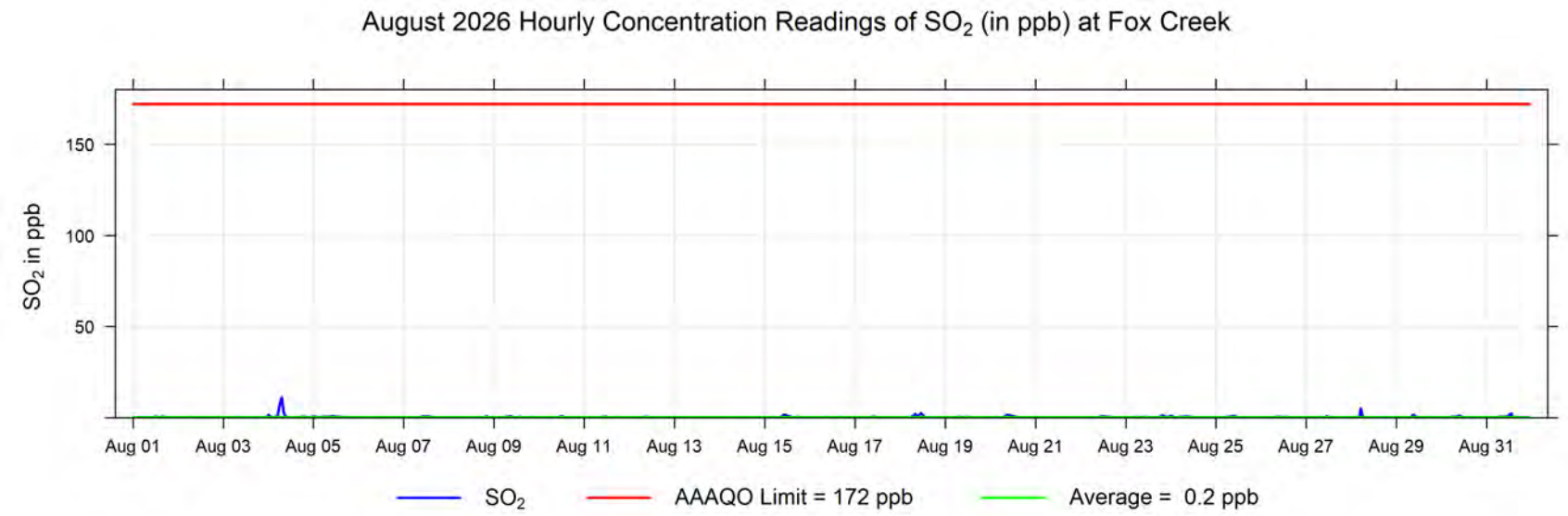
Valleyview August 2026 Wind Rose, wind speed in km/hr

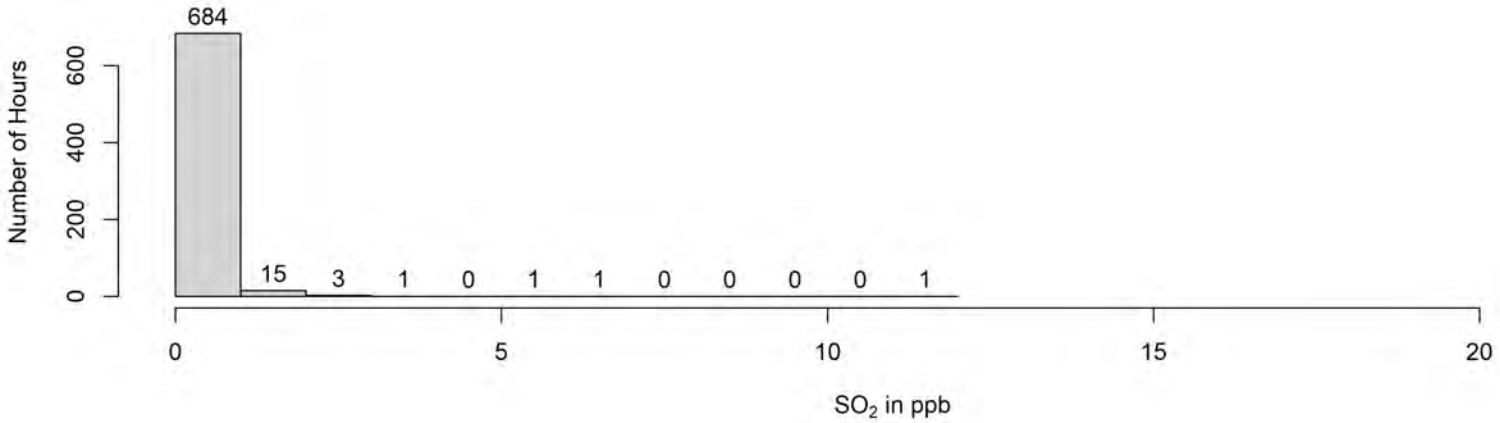
Calms (<1km/hr) = 11.4 %

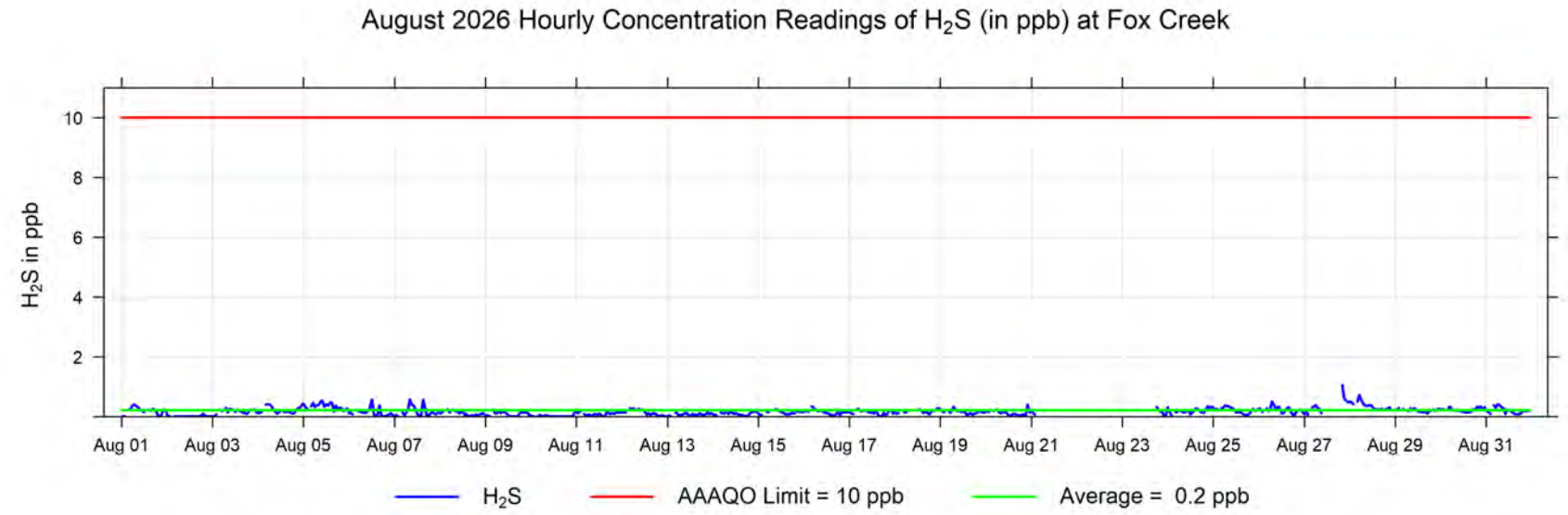
7 Fox Creek Charts

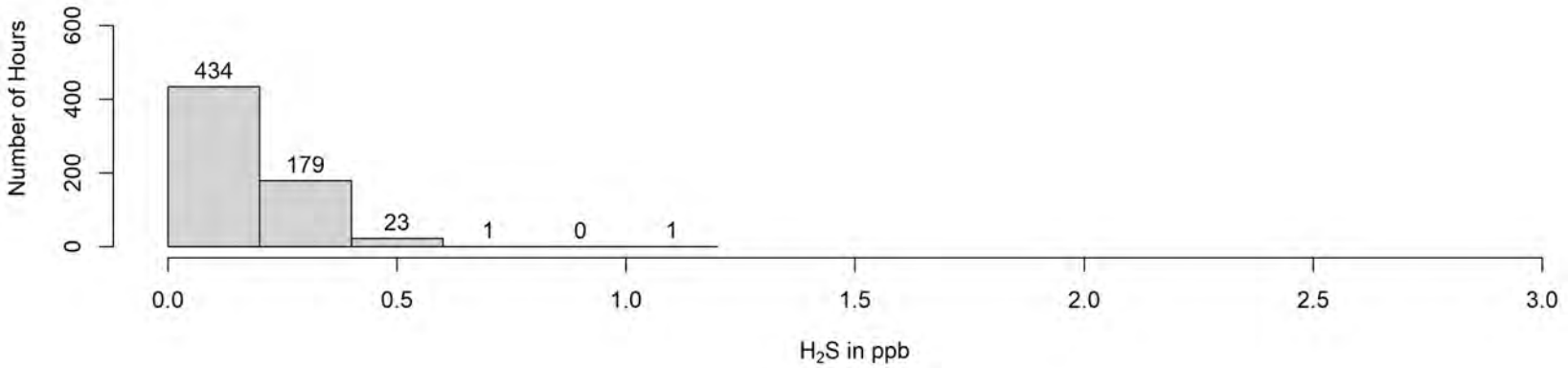
The following pages include the charts and histograms for Fox Creek Station

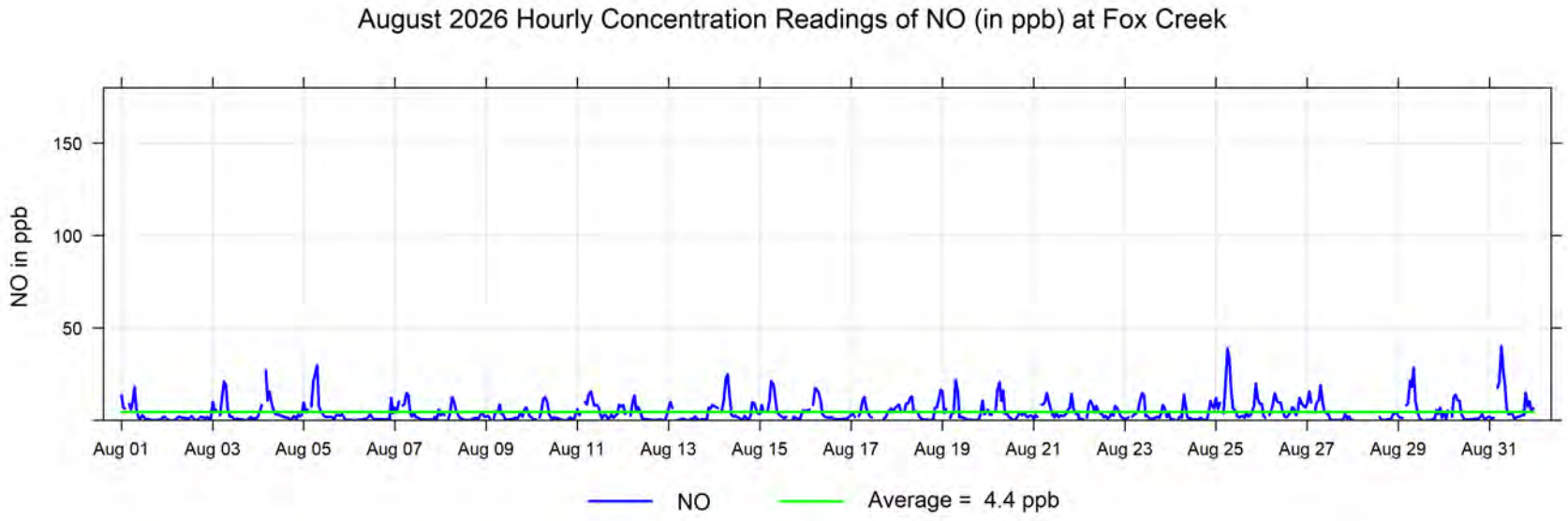


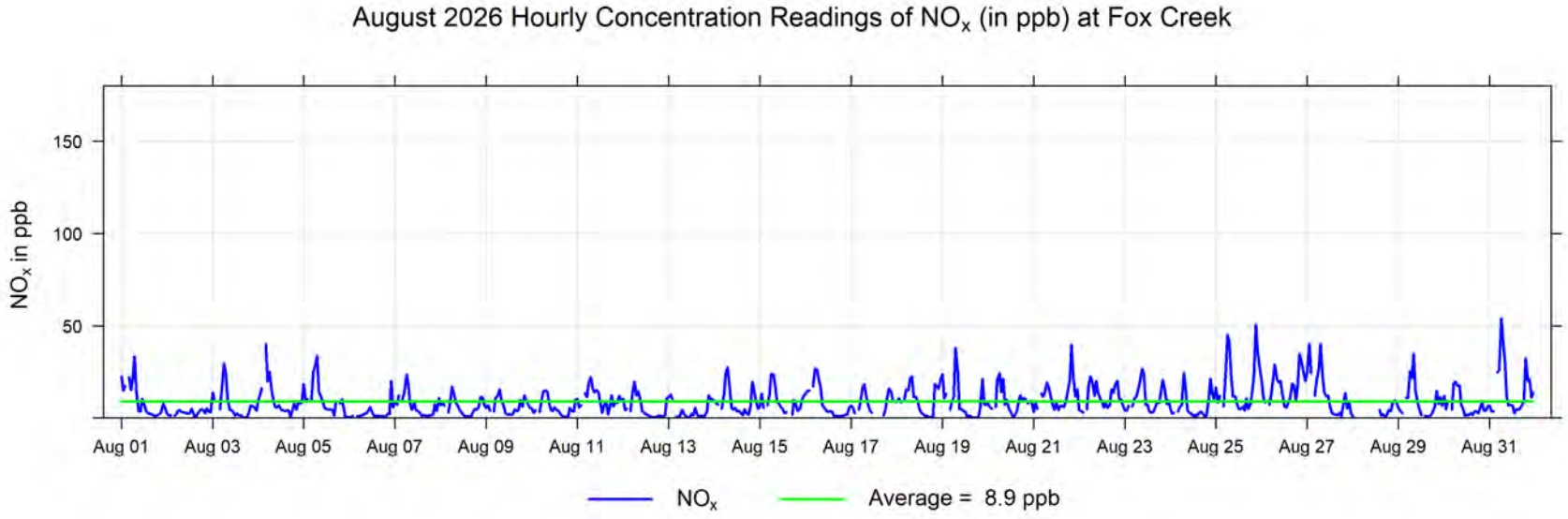

August 2026 Hourly Concentration Readings of SO2 (in ppb) at Fox Creek
SO2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
SO2
AAAQO Limit = 172 ppb
Average = 0.2 ppb

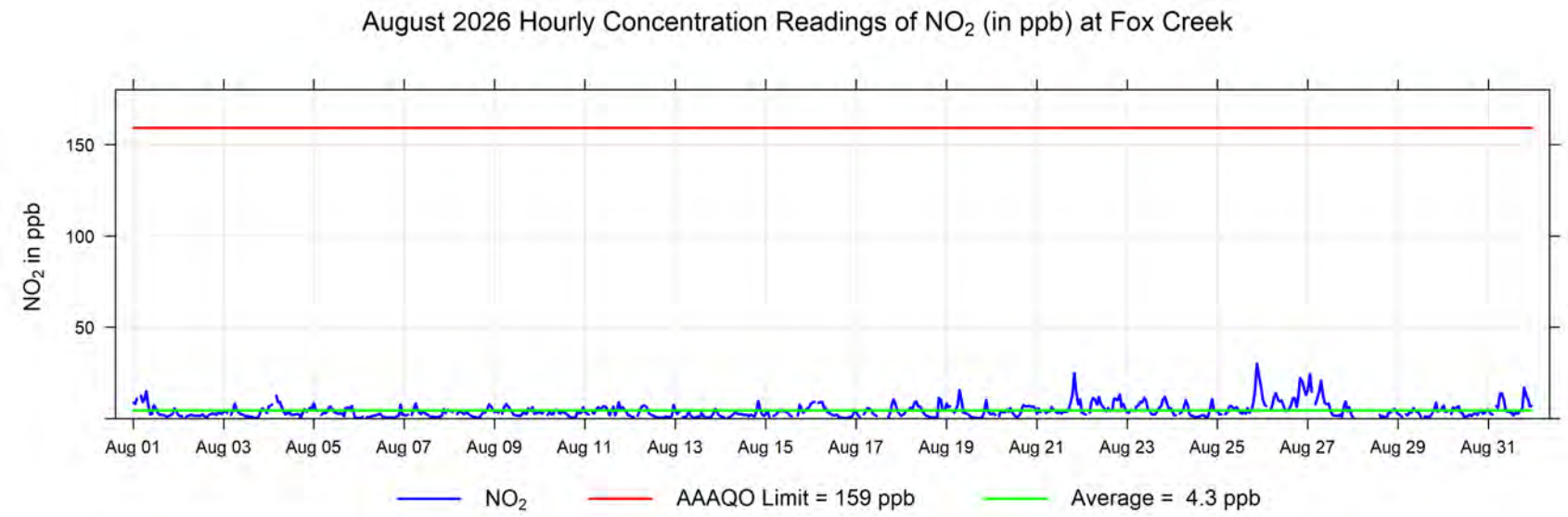

Number of Hours
0
200
400
600
684
15
3
1
0
1
1
0
0
0
0
1
0
5
10
15
20
SO2 in ppb

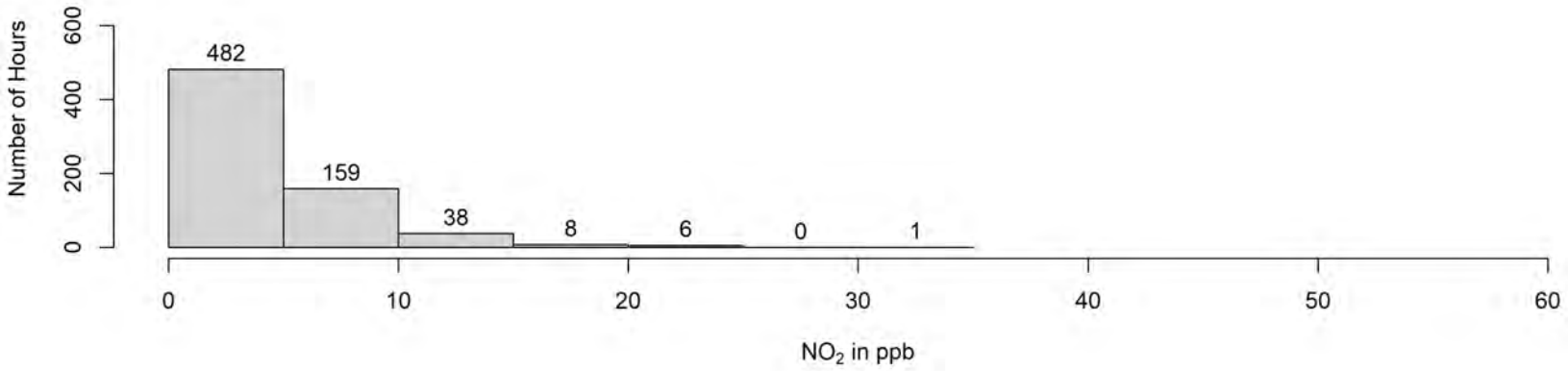

August 2026 Hourly Concentration Readings of H2S (in ppb) at Fox Creek
H2S in ppb
10
8
6
4
2
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
H2S
AAAQO Limit = 10 ppb
Average = 0.2 ppb

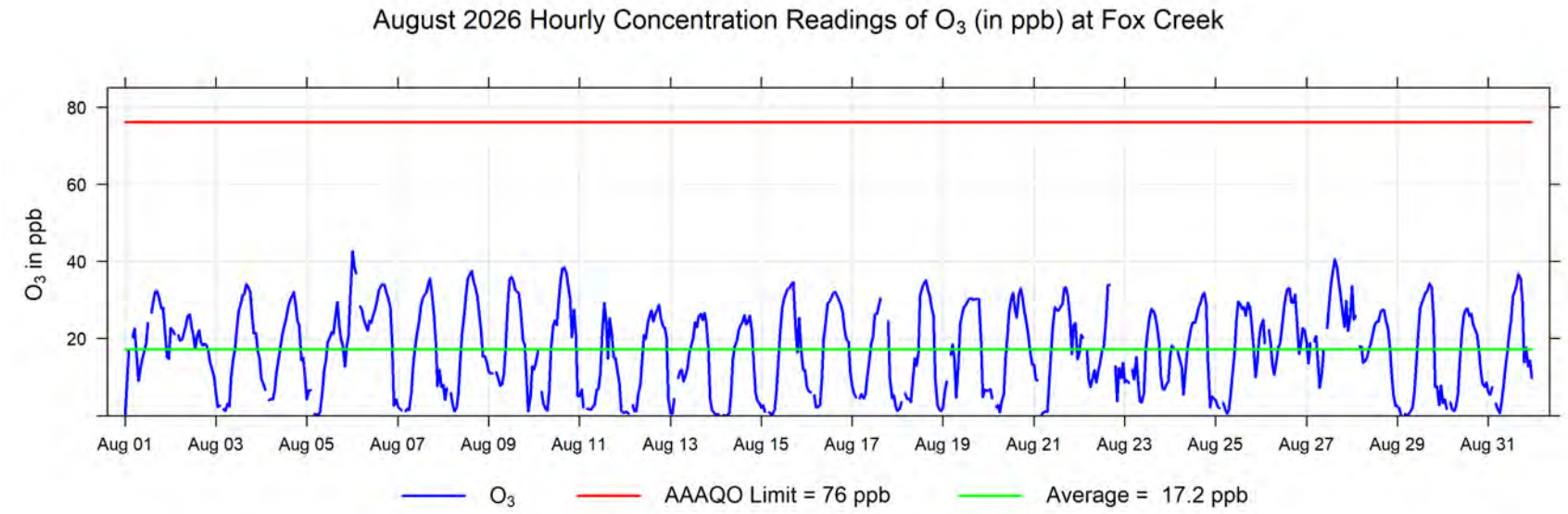

Number of Hours
0
200
400
600
434
179
23
1
0
1
0.0
0.5
1.0
1.5
2.0
2.5
3.0
H2S in ppb

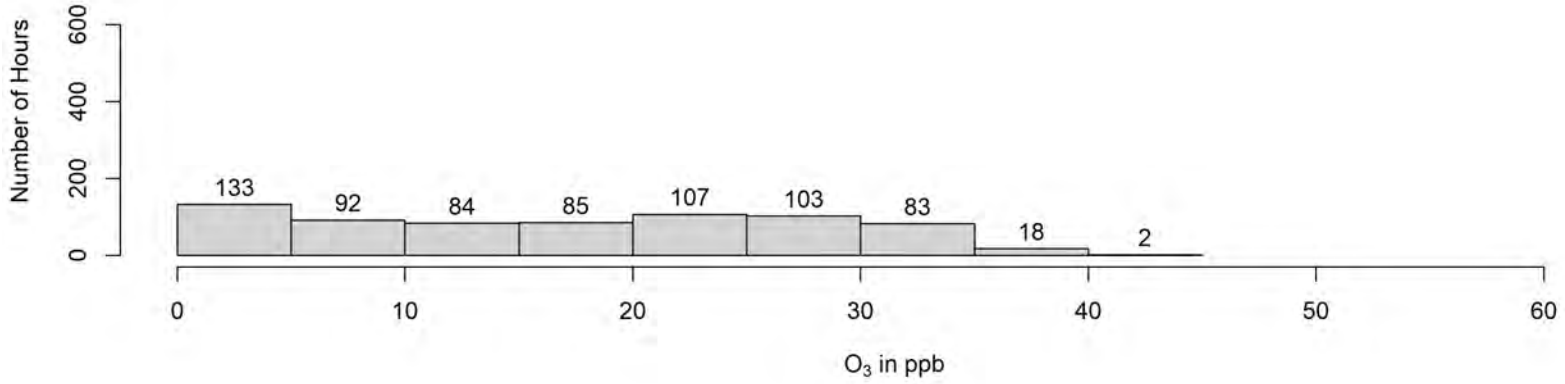

August 2026 Hourly Concentration Readings of NO (in ppb) at Fox Creek
NO in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NO
Average = 4.4 ppb

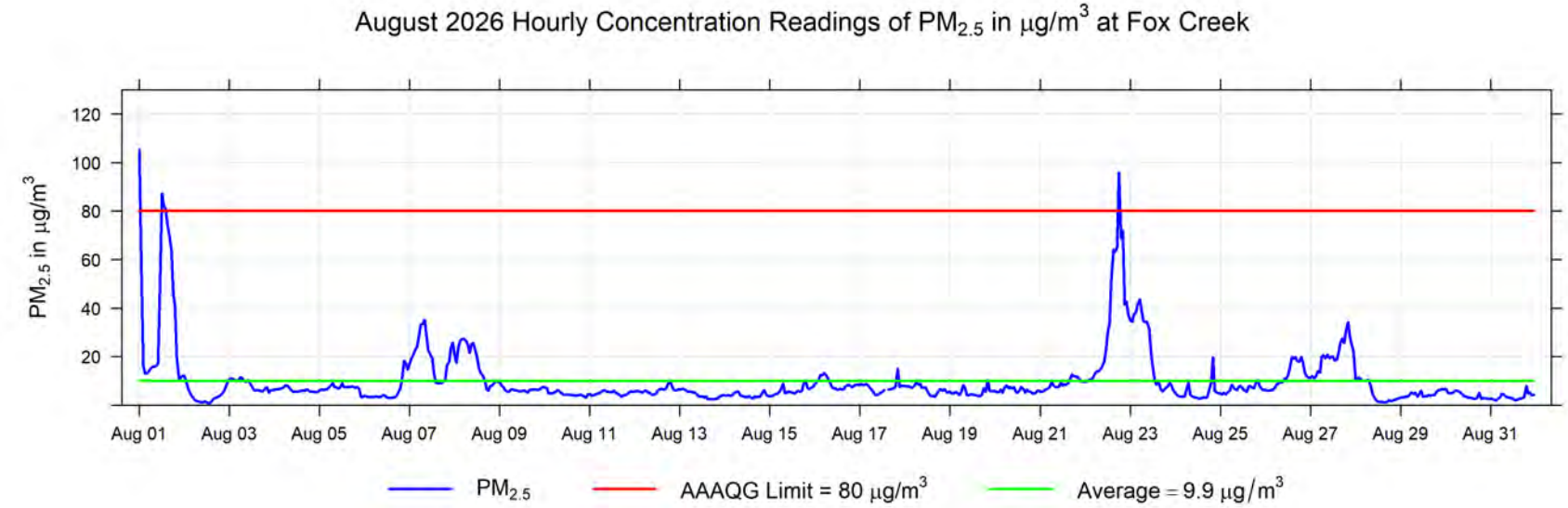

August 2026 Hourly Concentration Readings of NOx (in ppb) at Fox Creek
NOx in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NOx
Average = 8.9 ppb

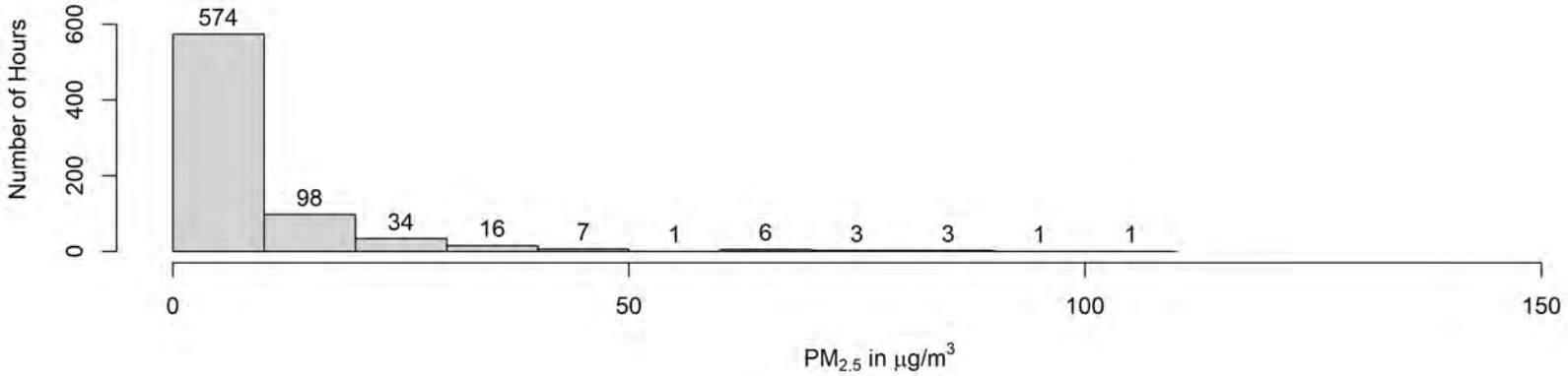

August 2026 Hourly Concentration Readings of NO2 (in ppb) at Fox Creek
NO2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NO2
AAAQO Limit = 159 ppb
Average = 4.3 ppb

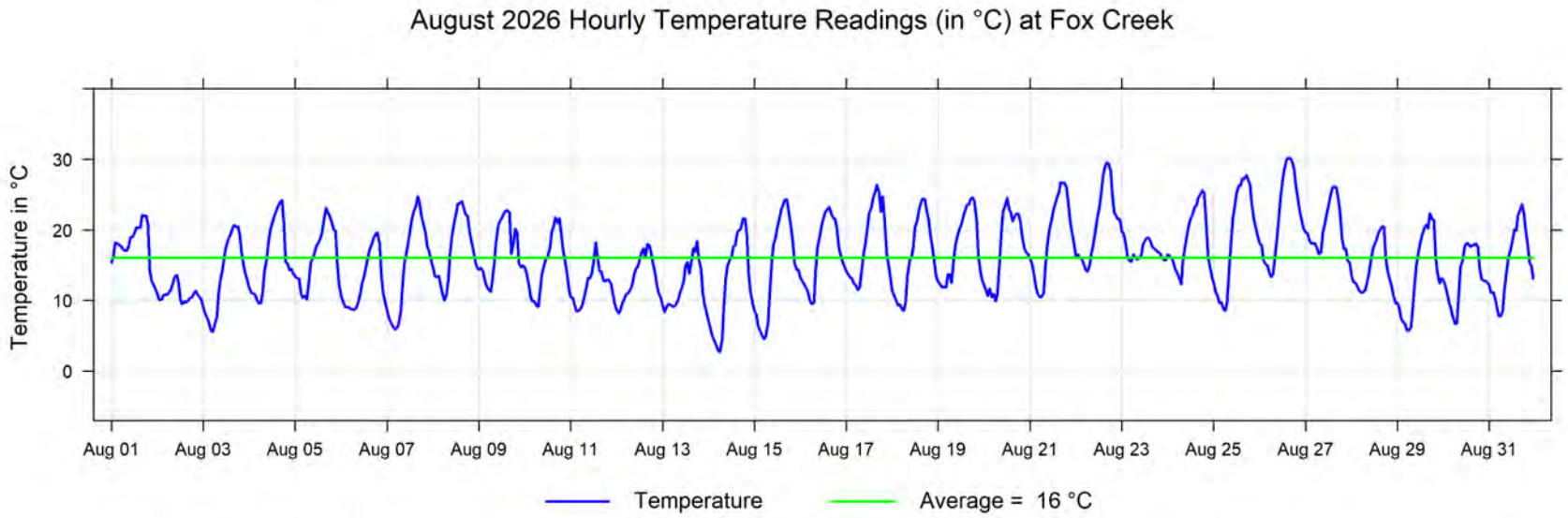

Number of Hours
0
200
400
600
482
159
38
8
6
0
1
0
10
20
30
40
50
60
NO2 in ppb

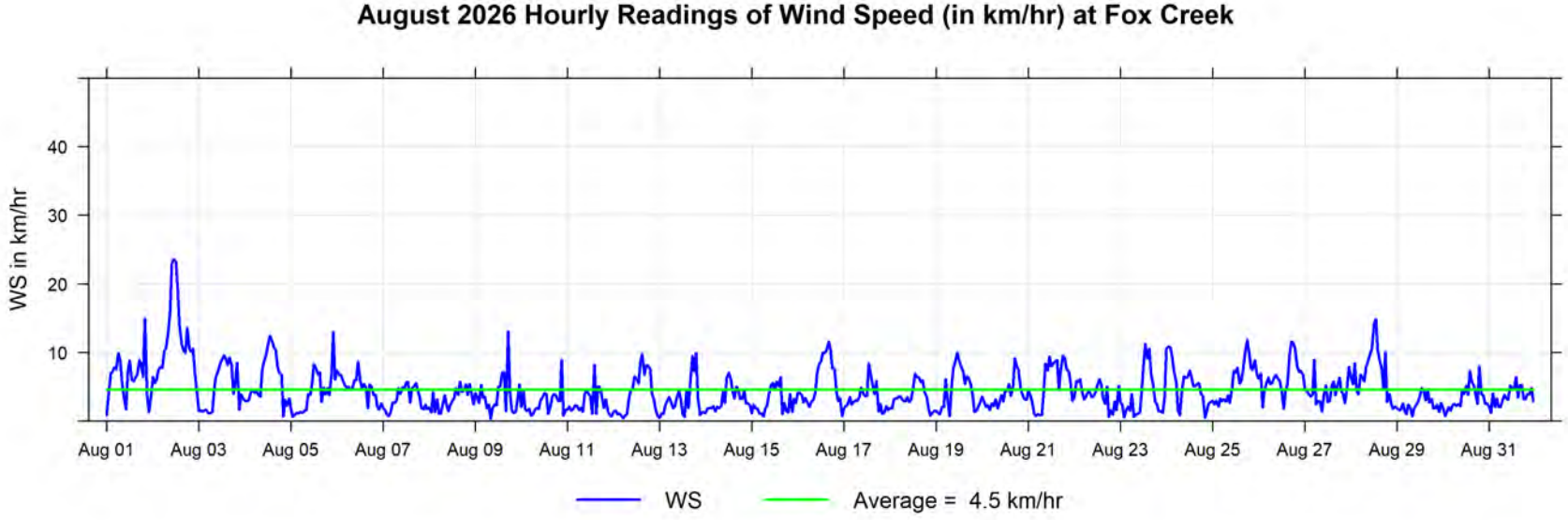

August 2026 Hourly Concentration Readings of O_3 (in ppb) at Fox Creek
O_3 in ppb
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
O_3
AAAQO Limit = 76 ppb
Average = 17.2 ppb

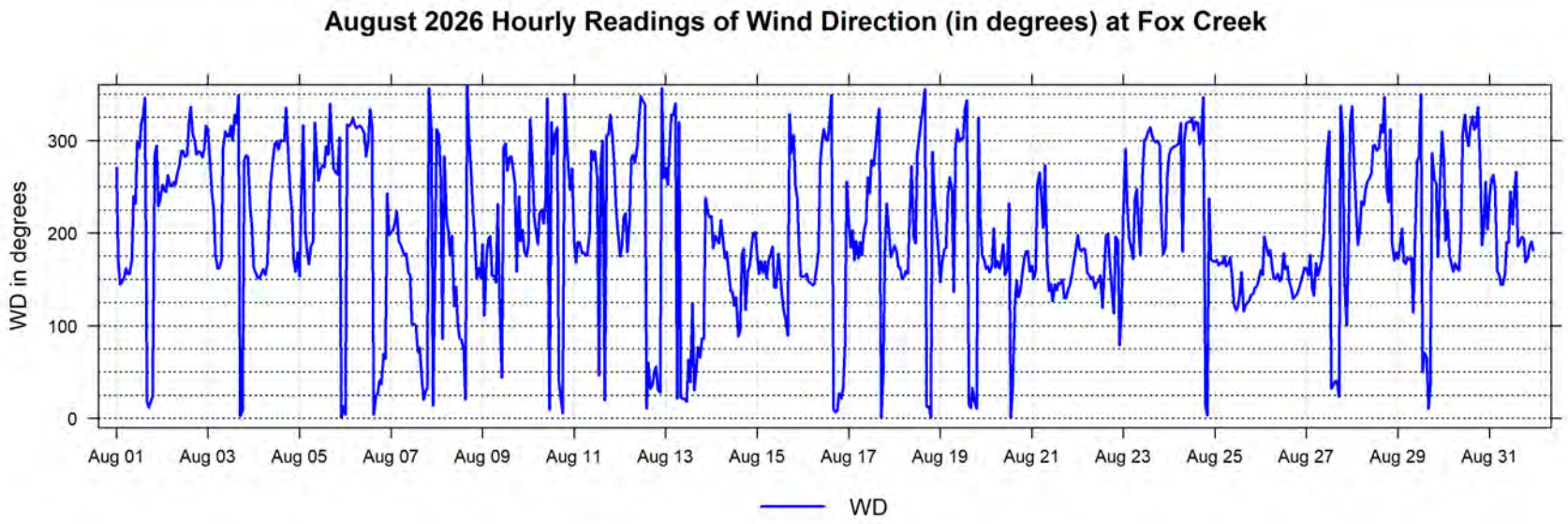

Number of Hours
0
200
400
600
133
92
84
85
107
103
83
18
2
0
10
20
30
40
50
60
O_3 in ppb

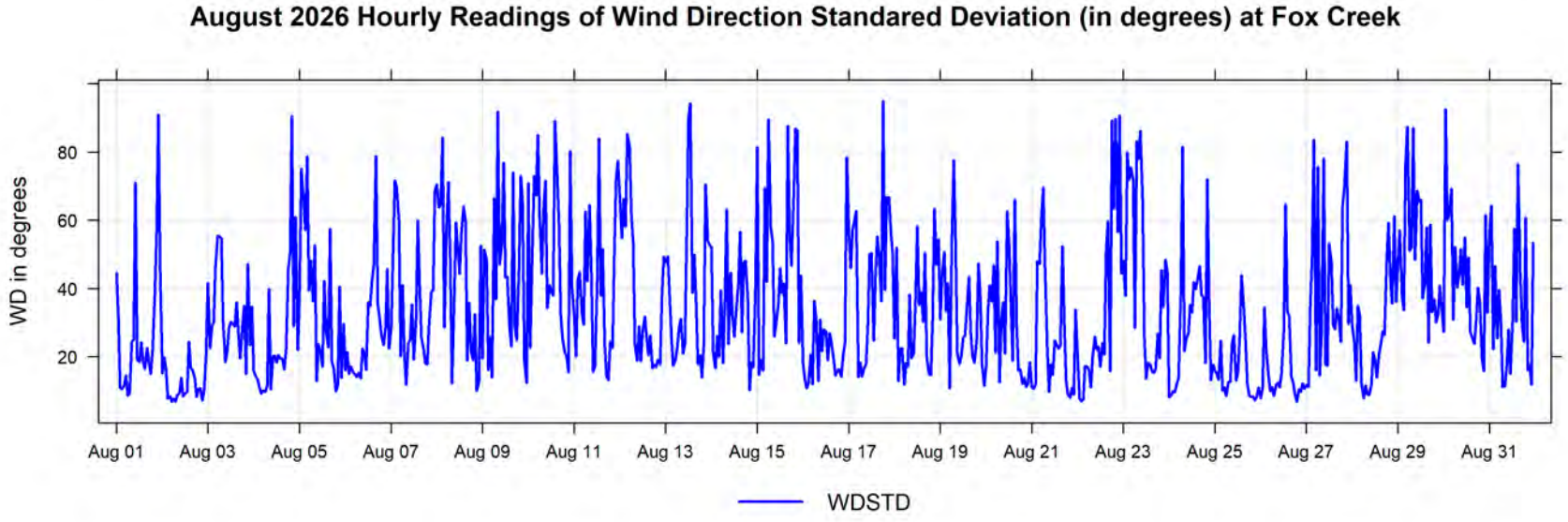

August 2026 Hourly Concentration Readings of PM2.5 in µg/m3 at Fox Creek
PM2.5 in µg/m3
120
100
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
PM2.5
AAAQG Limit = 80 µg/m3
Average = 9.9 µg/m3

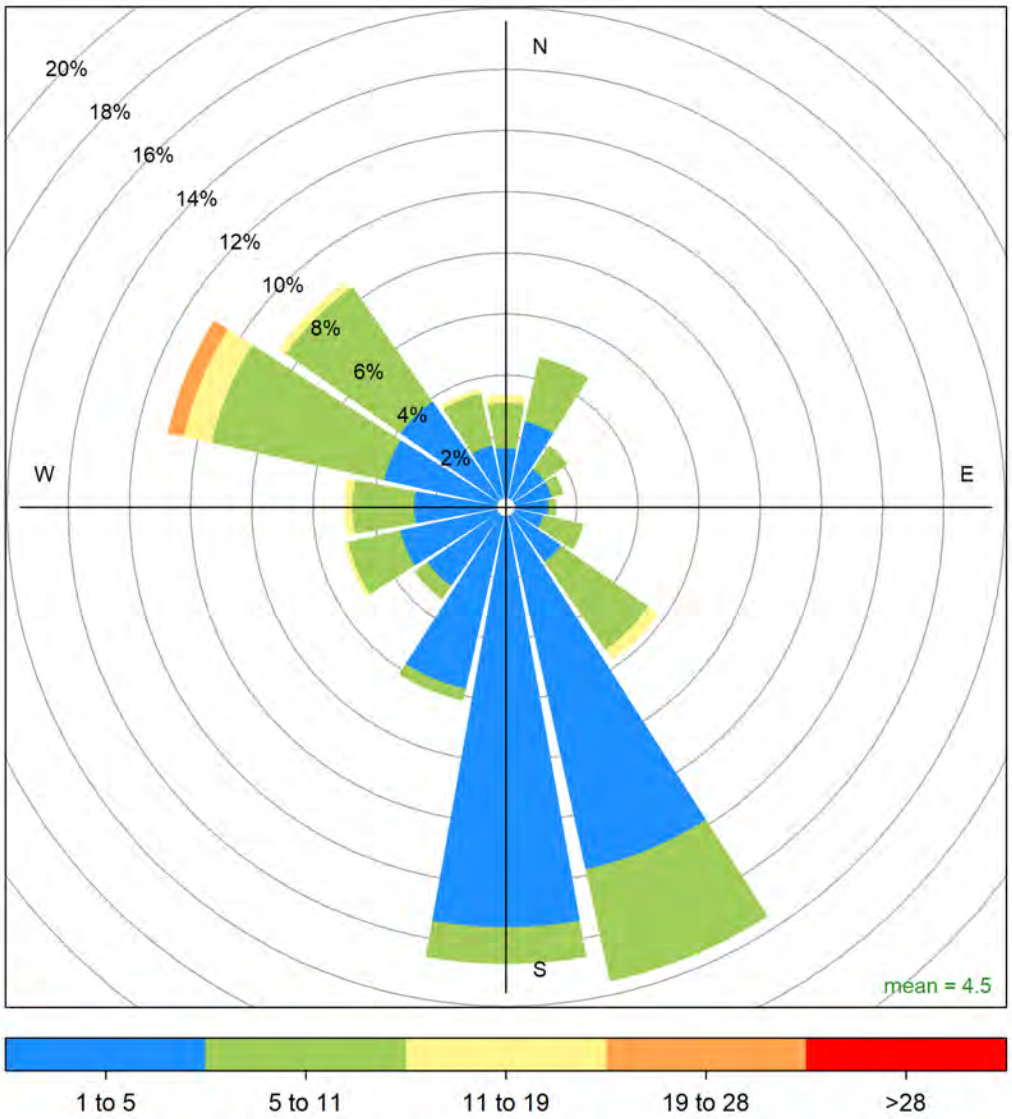

Number of Hours
0
200
400
600
574
98
34
16
7
1
6
3
3
1
1
0
50
100
150
PM2.5 in µg/m3


August 2026 Hourly Temperature Readings (in °C) at Fox Creek
Temperature in °C
30
20
10
0
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
Temperature
Average = 16 °C


August 2026 Hourly Readings of Wind Speed (in km/hr) at Fox Creek
WS in km/hr
40
30
20
10
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WS
Average = 4.5 km/hr


August 2026 Hourly Readings of Wind Direction (in degrees) at Fox Creek
WD in degrees
0
100
200
300
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WD


August 2026 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Fox Creek
WD in degrees
20
40
60
80
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WDSTD

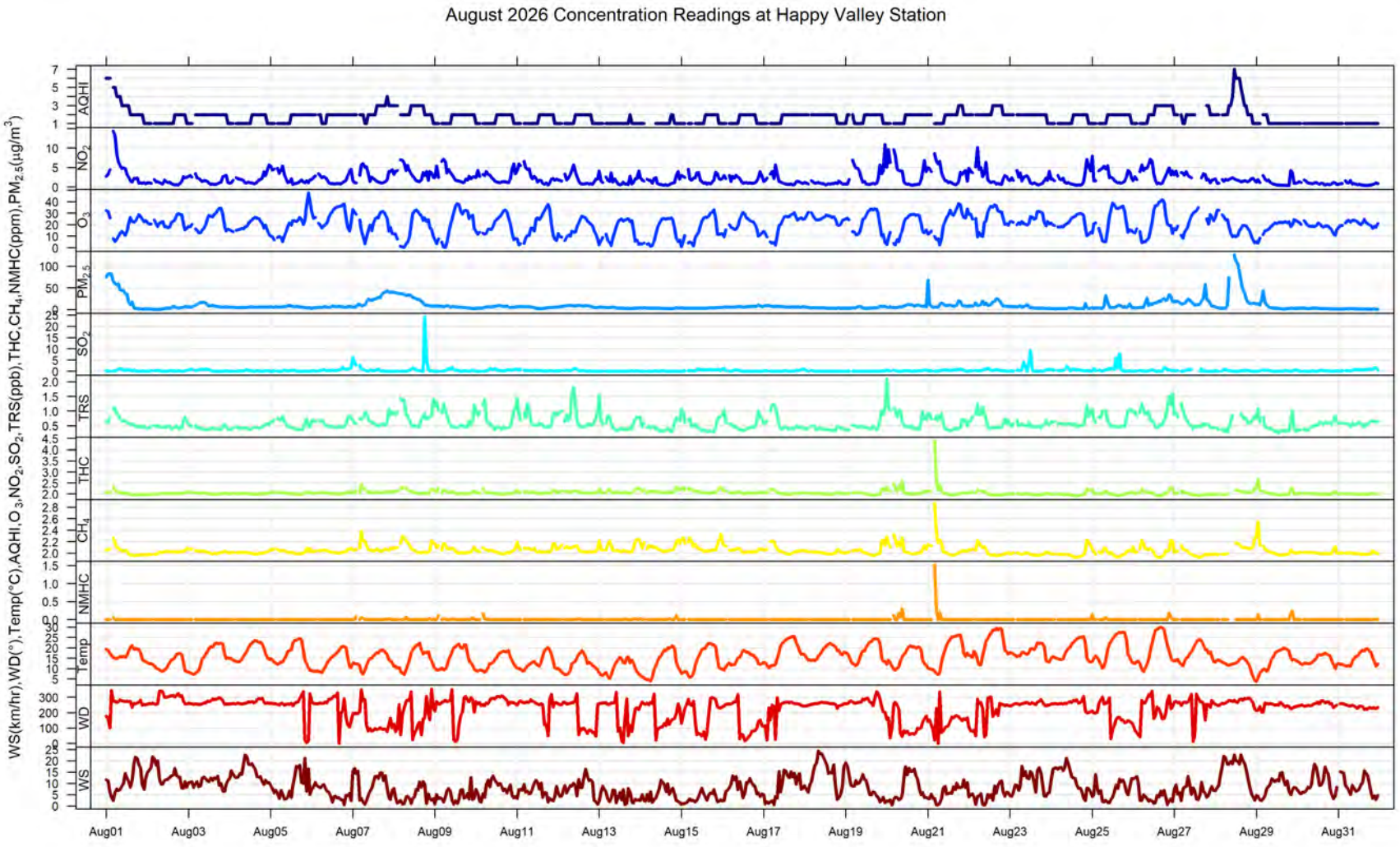


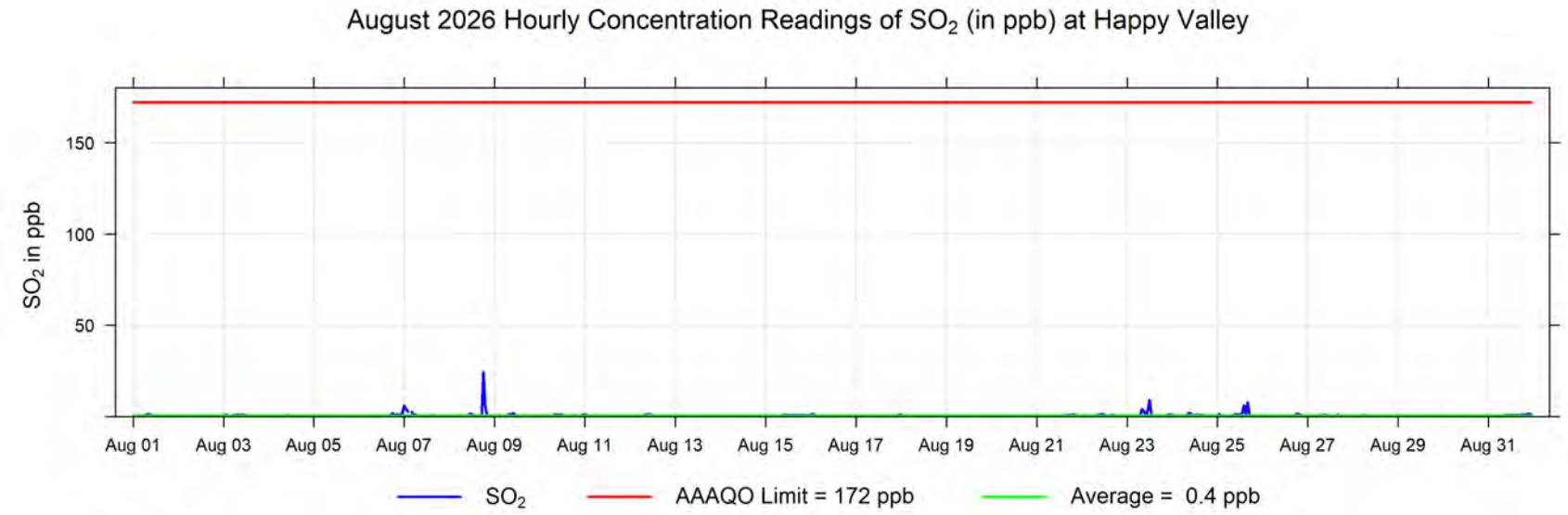
Fox Creek August 2026 Wind Rose, wind speed in km/hr

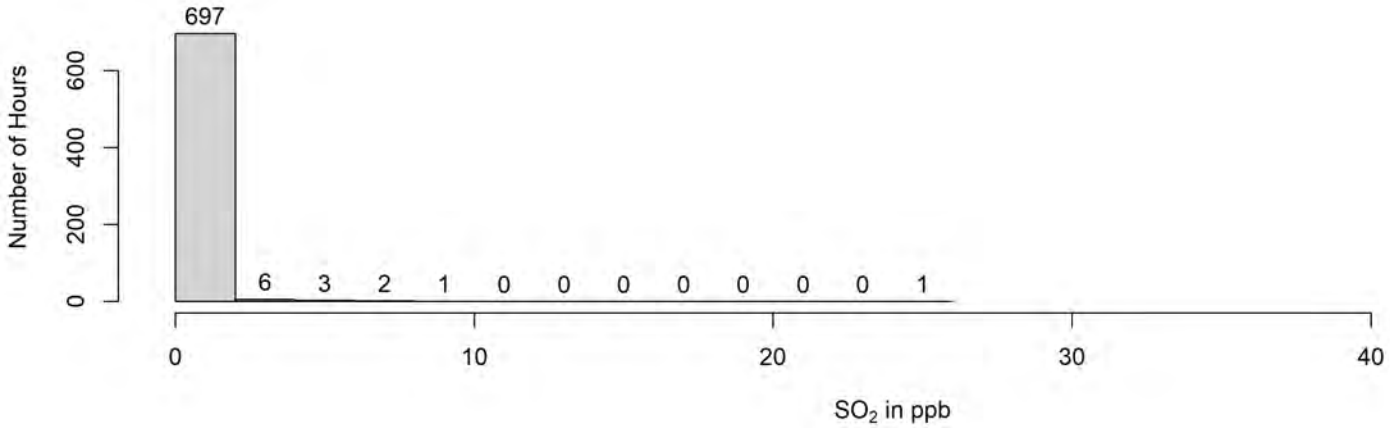
Calms (<1km/hr) = 5.6 %

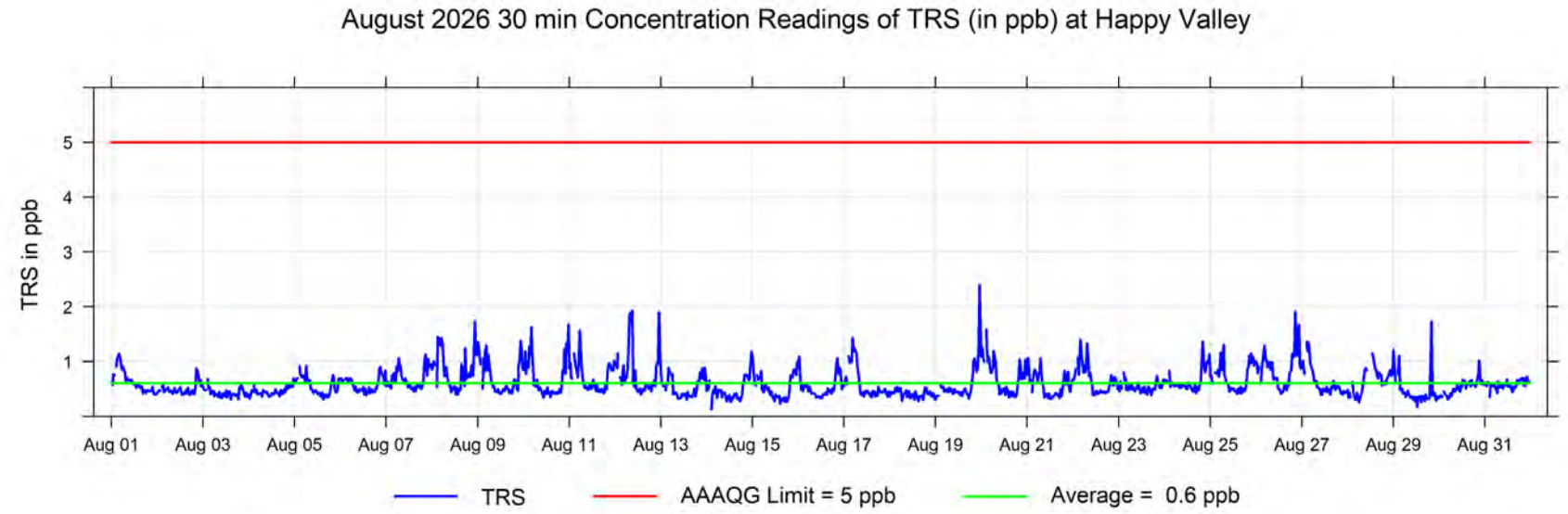
8 Happy Valley (Portable) Charts

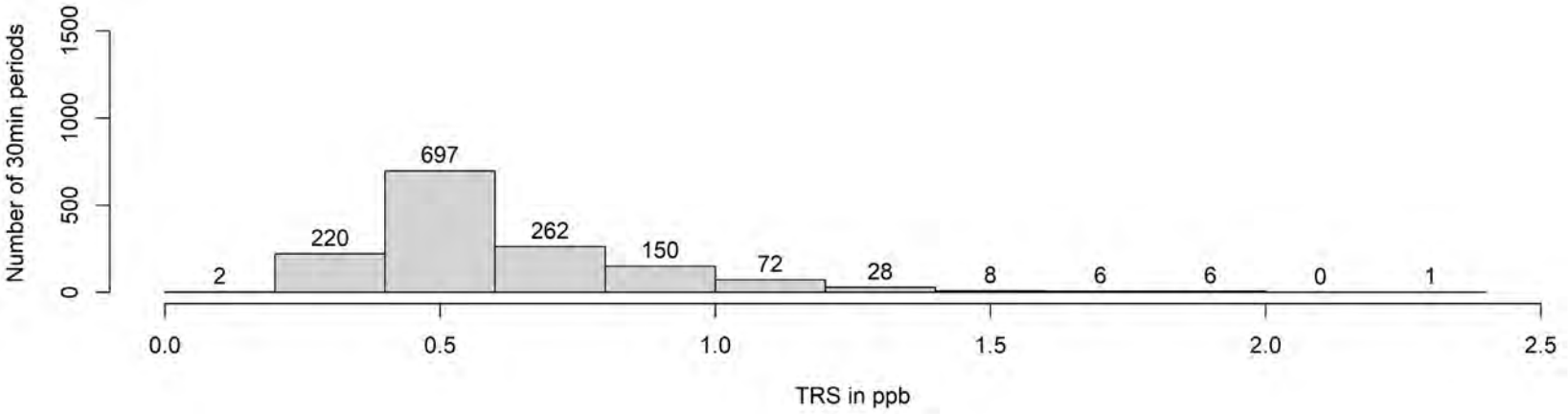
The following pages include the charts and histograms for Happy Valley Portable Station

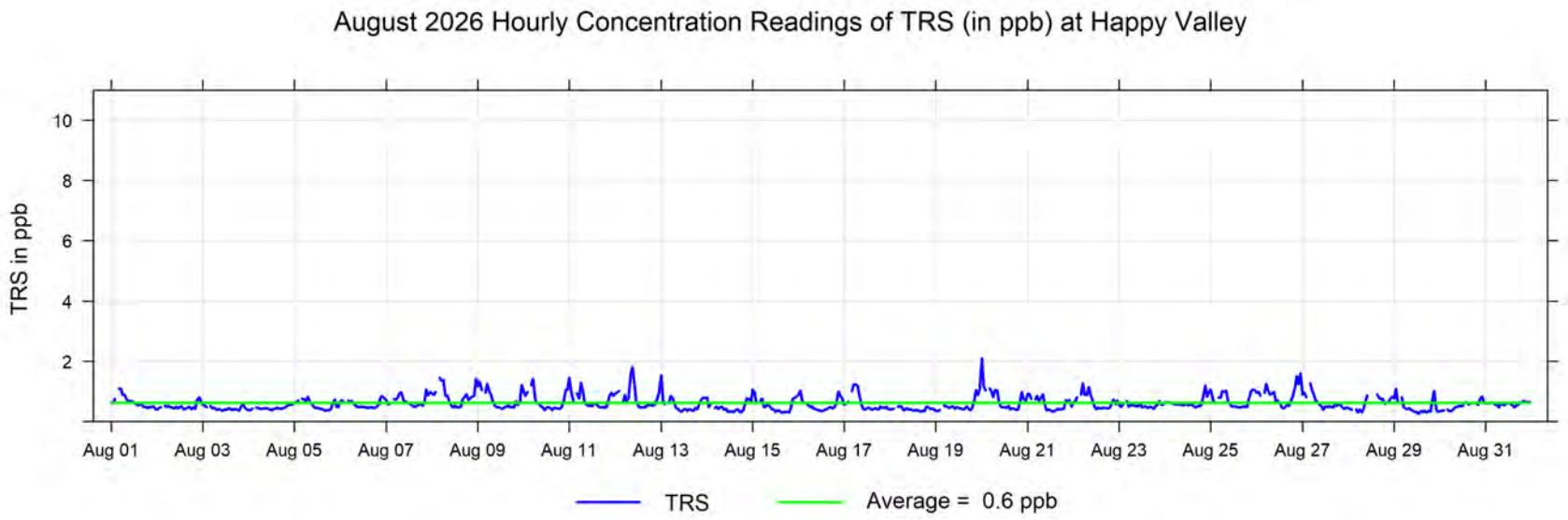


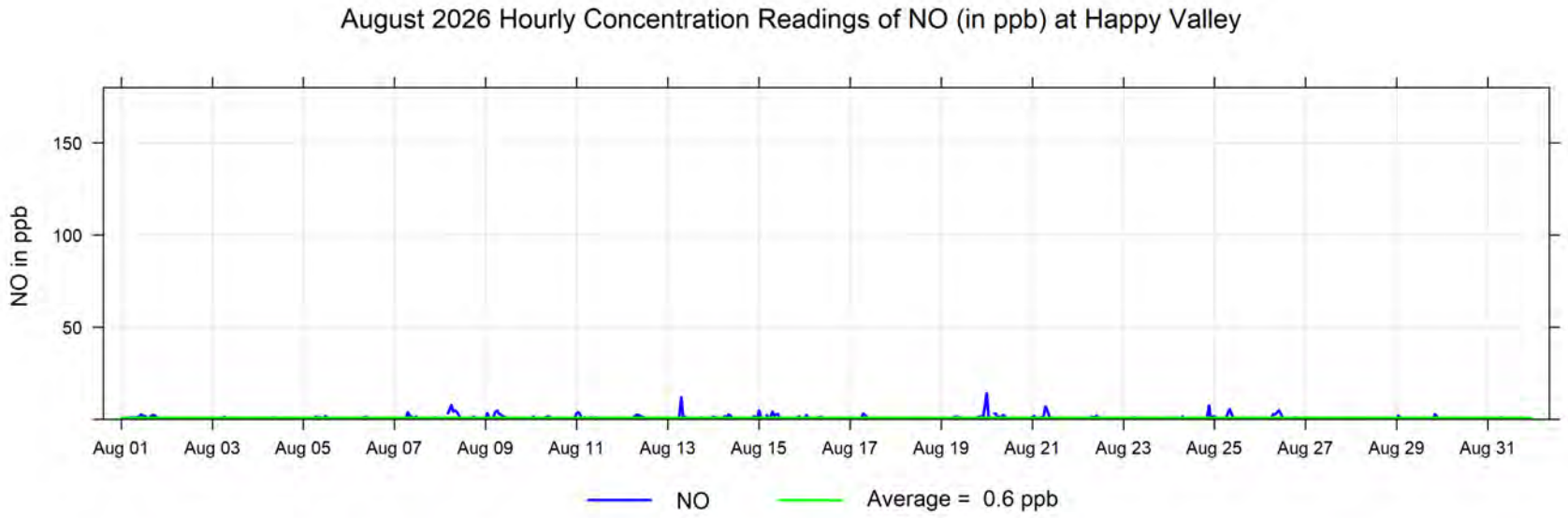

August 2026 Hourly Concentration Readings of SO_2 (in ppb) at Happy Valley
SO_2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
SO_2
AAAQO Limit = 172 ppb
Average = 0.4 ppb

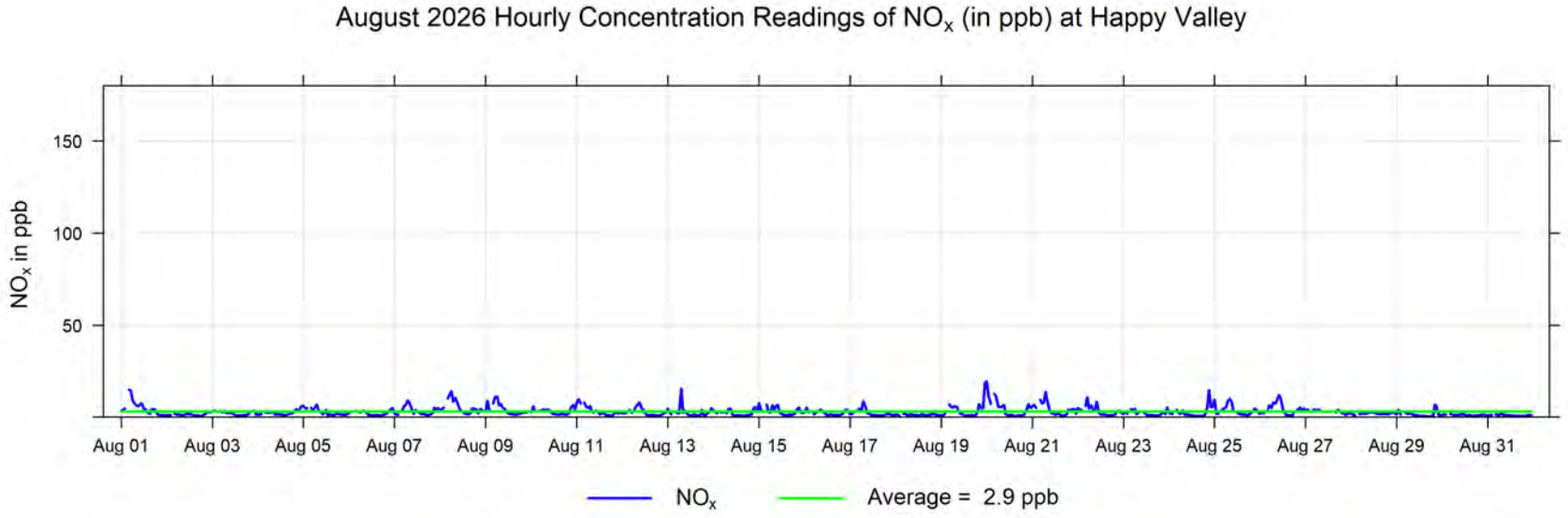

Number of Hours
0
200
400
600
697
6
3
2
1
0
0
0
0
0
0
0
1
0
10
20
30
40
SO_2 in ppb

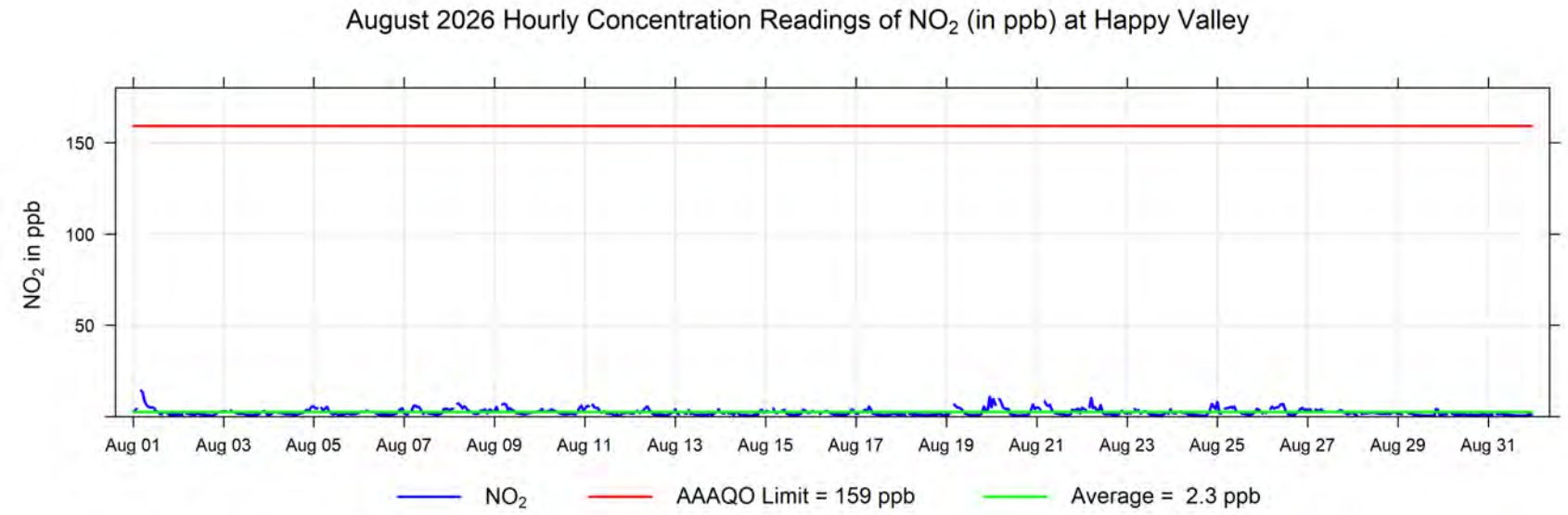

August 2026 30 min Concentration Readings of TRS (in ppb) at Happy Valley
TRS in ppb
1
2
3
4
5
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
TRS
AAAQG Limit = 5 ppb
Average = 0.6 ppb

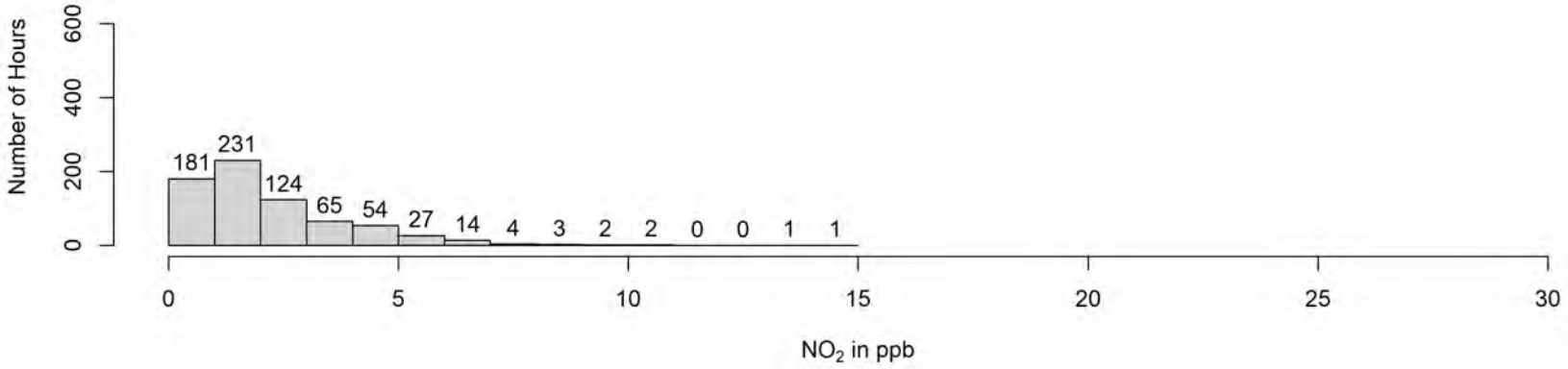

Number of 30min periods
0
500
1000
1500
2
220
697
262
150
72
28
8
6
6
0
1
0.0
0.5
1.0
1.5
2.0
2.5
TRS in ppb

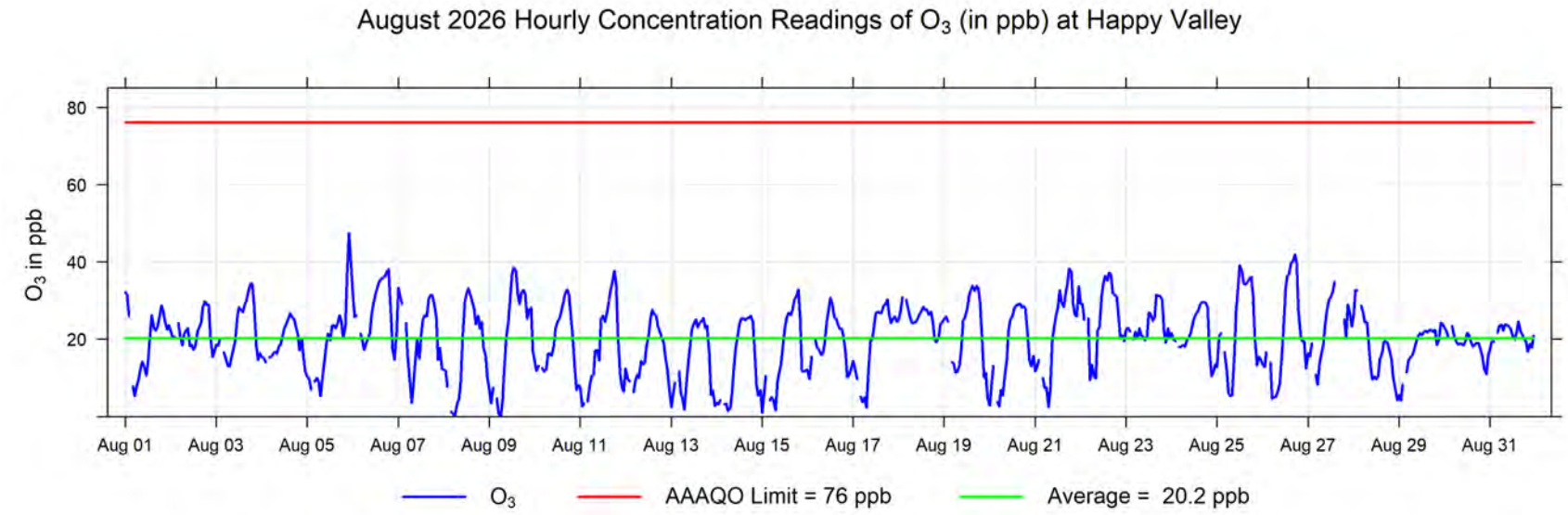

August 2026 Hourly Concentration Readings of TRS (in ppb) at Happy Valley
TRS in ppb
10
8
6
4
2
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
TRS
Average = 0.6 ppb

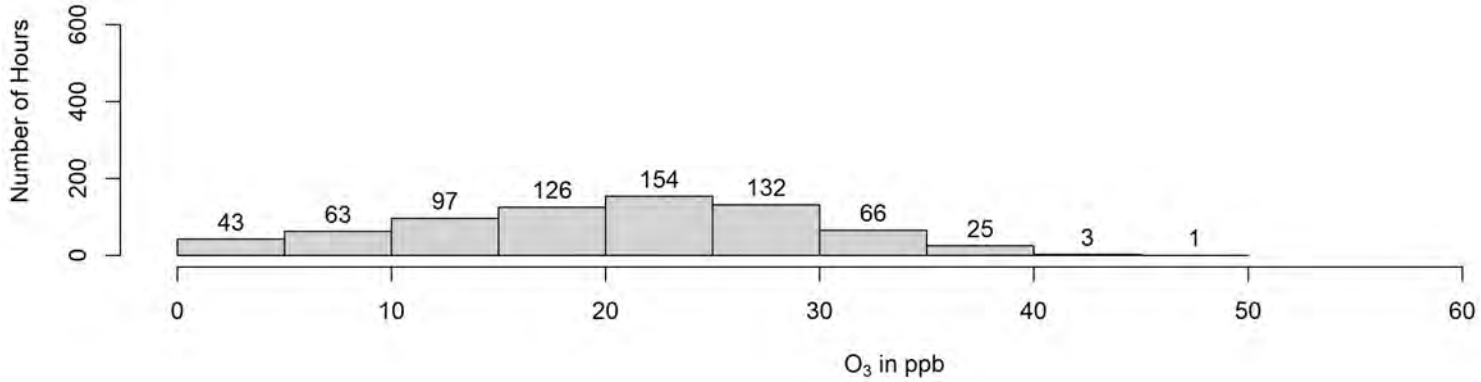

August 2026 Hourly Concentration Readings of NO (in ppb) at Happy Valley
NO in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NO
Average = 0.6 ppb

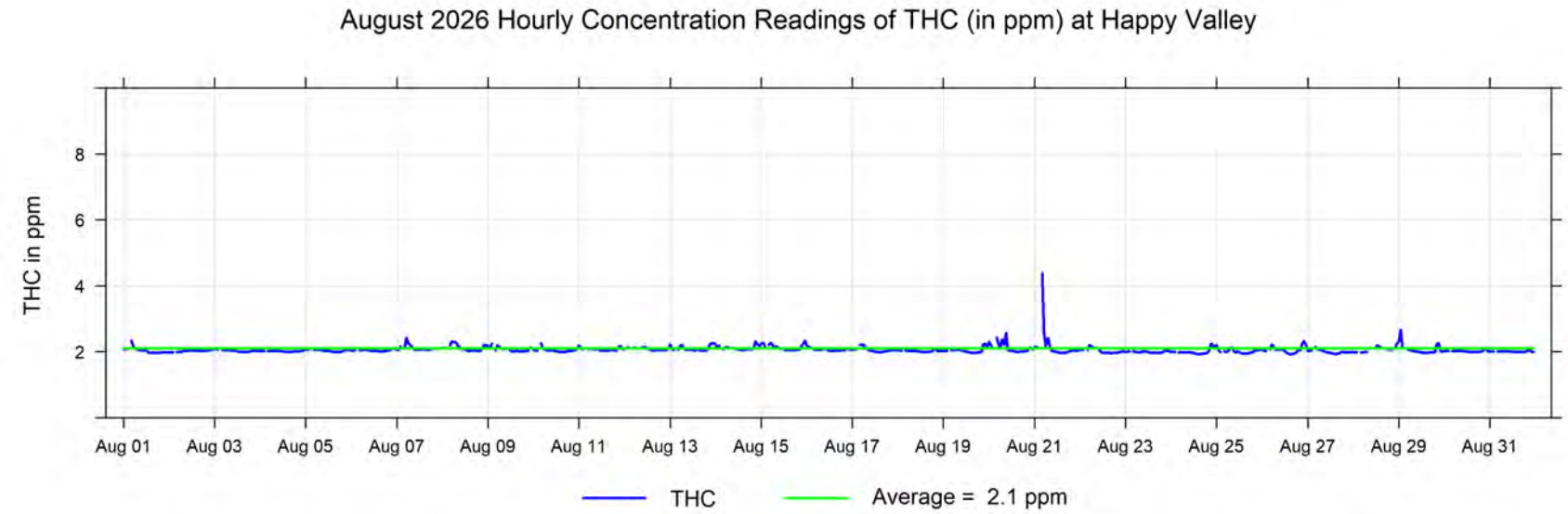

August 2026 Hourly Concentration Readings of NOx (in ppb) at Happy Valley
NOx in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NOx
Average = 2.9 ppb

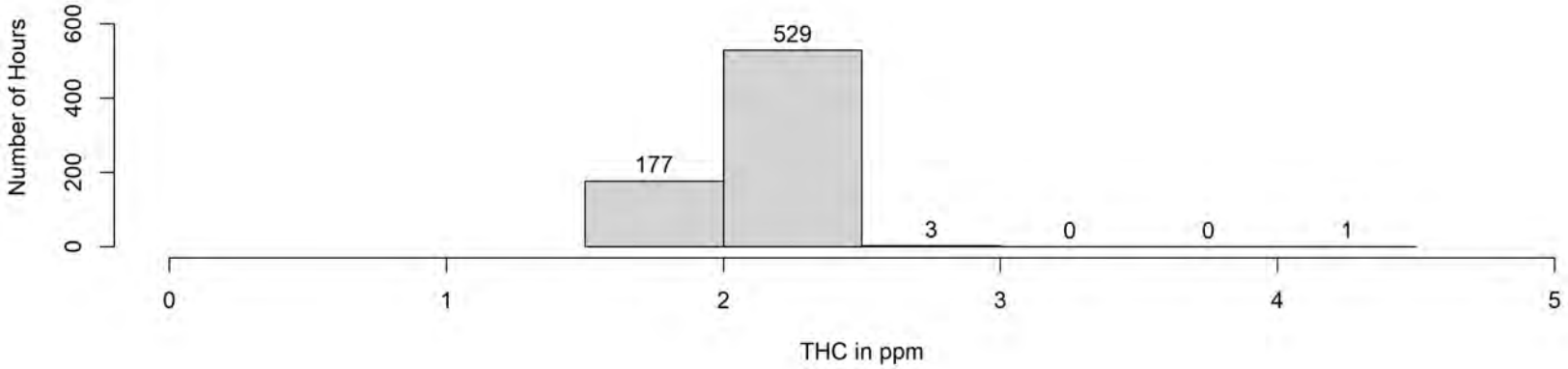

August 2026 Hourly Concentration Readings of NO2 (in ppb) at Happy Valley
NO2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NO2
AAAQO Limit = 159 ppb
Average = 2.3 ppb

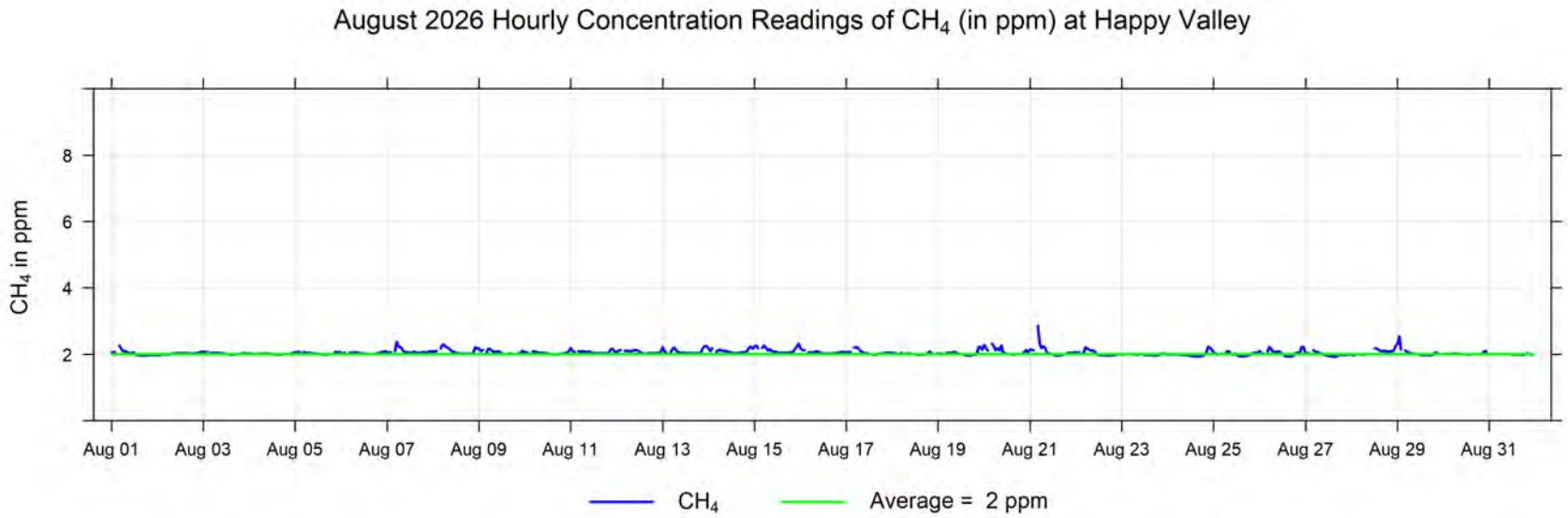

Number of Hours
0
200
400
600
181
231
124
65
54
27
14
4
3
2
2
0
0
1
1
0
5
10
15
20
25
30
NO2 in ppb

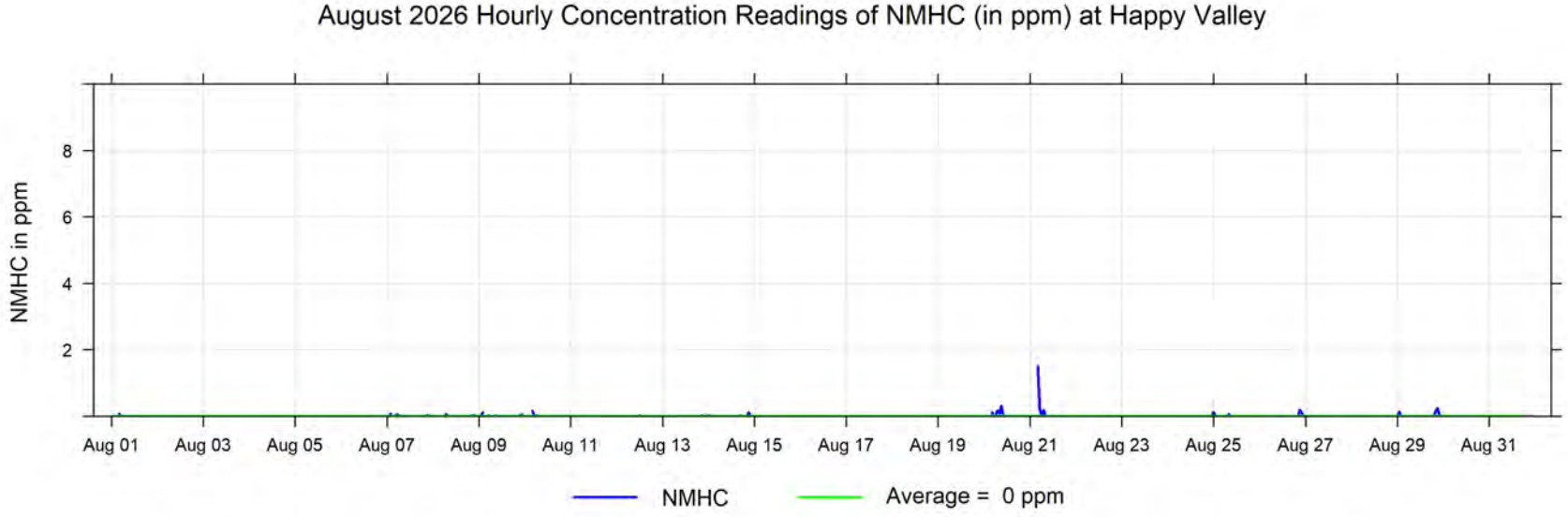

August 2026 Hourly Concentration Readings of O_3 (in ppb) at Happy Valley
O_3 in ppb
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
O_3
AAAQO Limit = 76 ppb
Average = 20.2 ppb

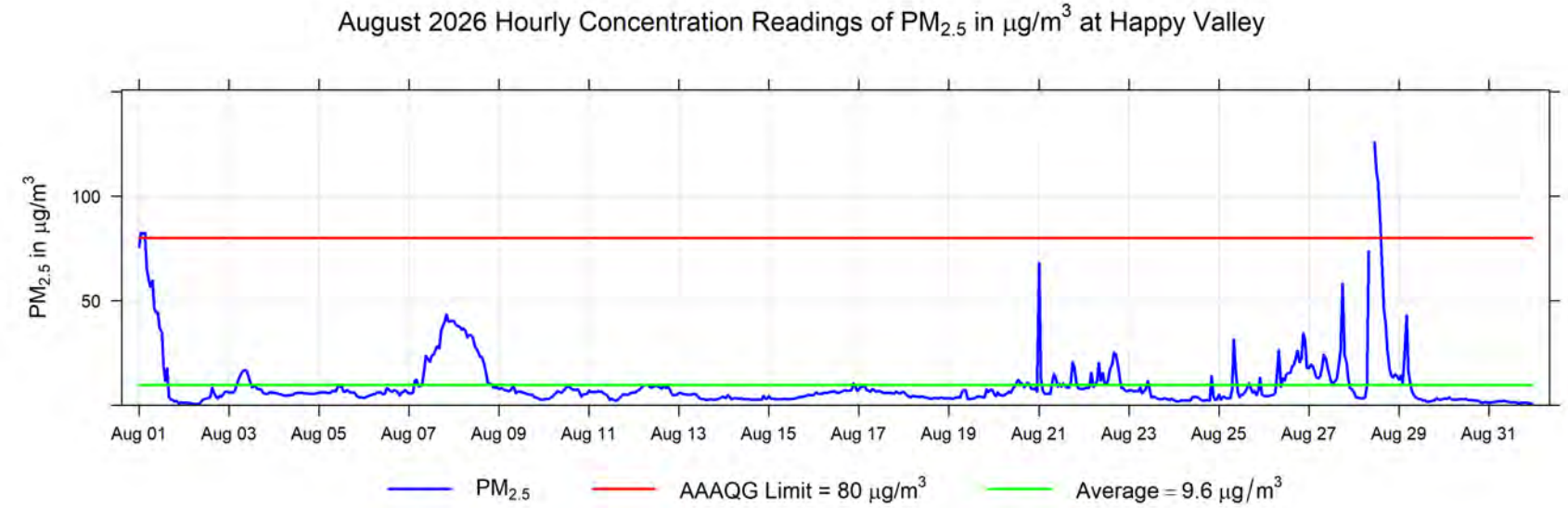

Number of Hours
0
200
400
600
43
63
97
126
154
132
66
25
3
1
0
10
20
30
40
50
60
O_3 in ppb

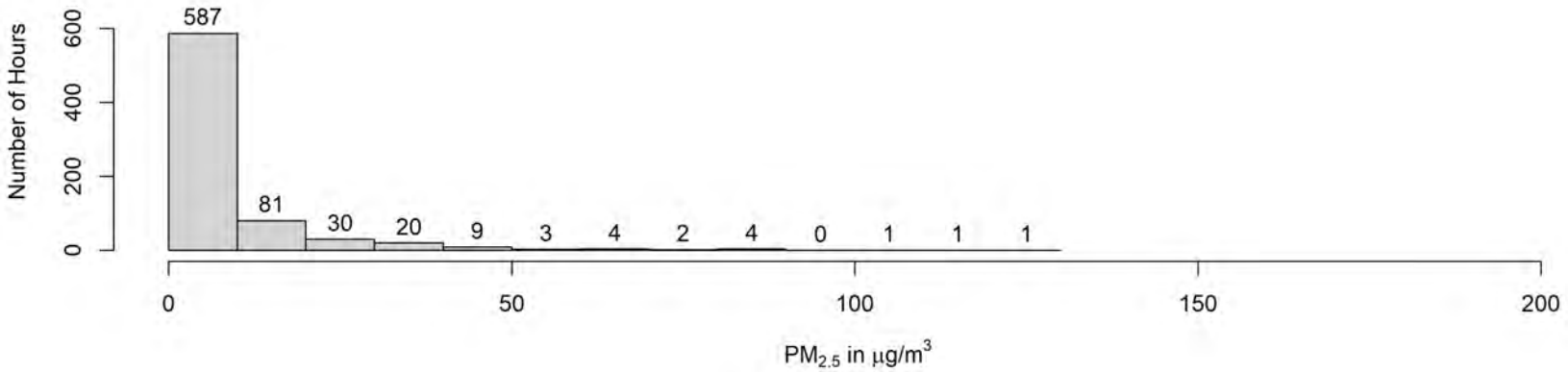

August 2026 Hourly Concentration Readings of THC (in ppm) at Happy Valley
THC in ppm
8
6
4
2
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
THC
Average = 2.1 ppm

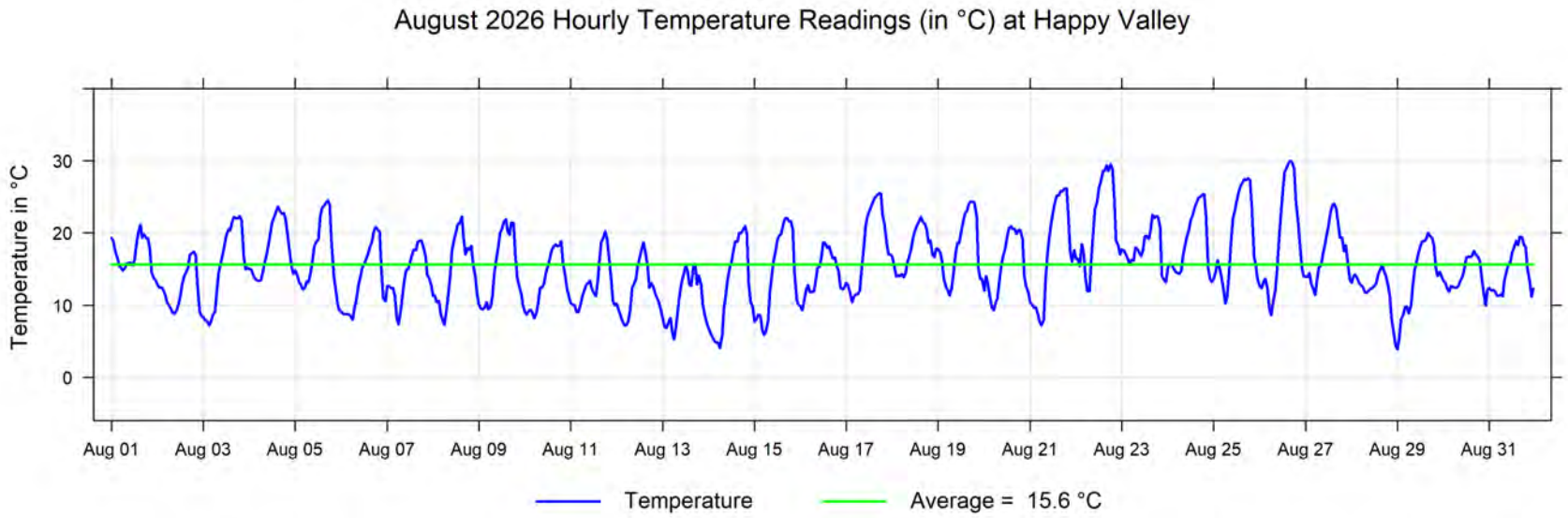

Number of Hours
0
200
400
600
529
177
3
0
0
1
0
1
2
3
4
5
THC in ppm

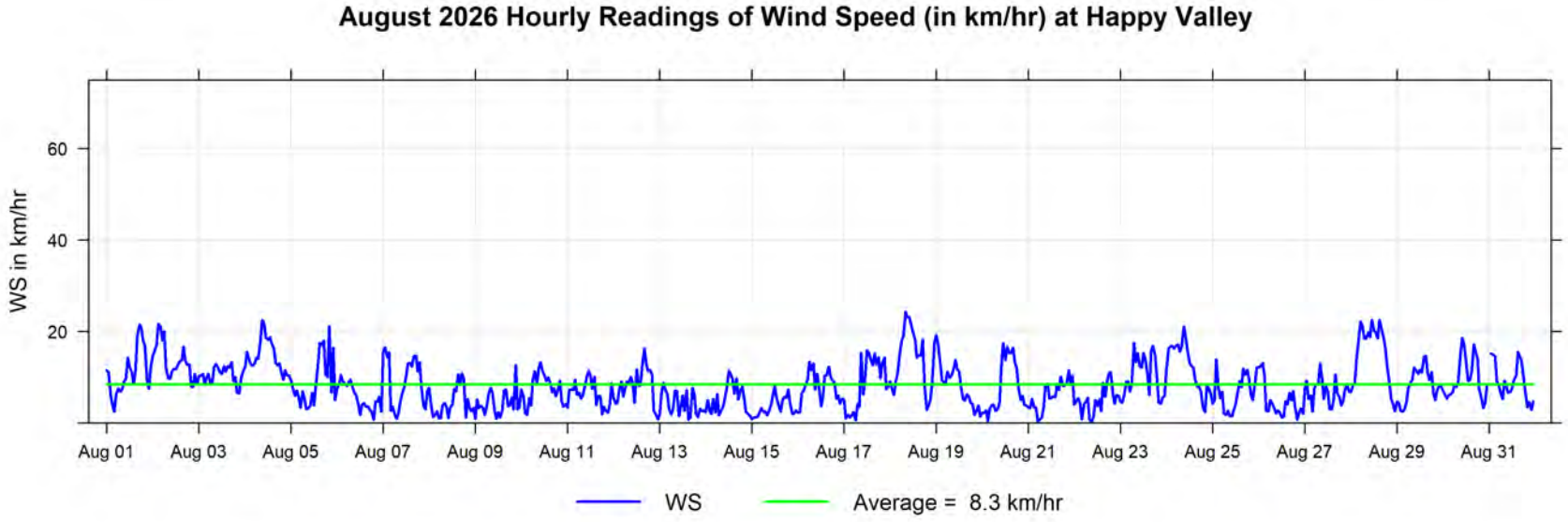

August 2026 Hourly Concentration Readings of CH_4 (in ppm) at Happy Valley
CH_4 in ppm
2
4
6
8
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
CH_4
Average = 2 ppm

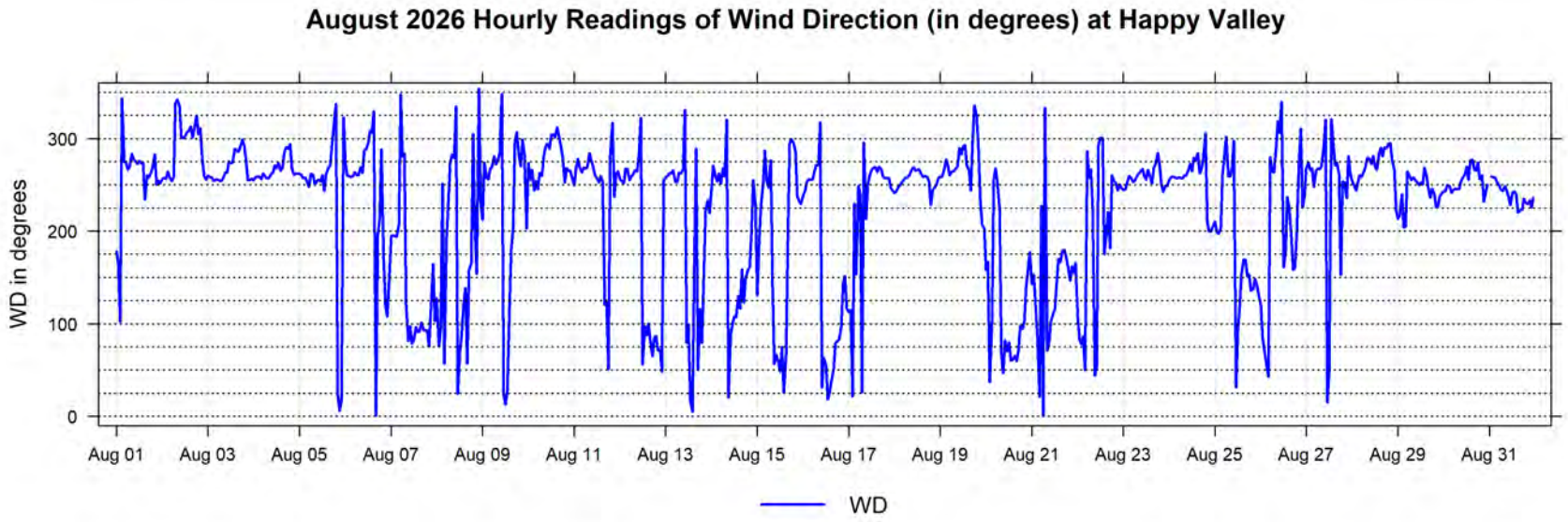

August 2026 Hourly Concentration Readings of NMHC (in ppm) at Happy Valley
NMHC in ppm
2
4
6
8
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NMHC
Average = 0 ppm

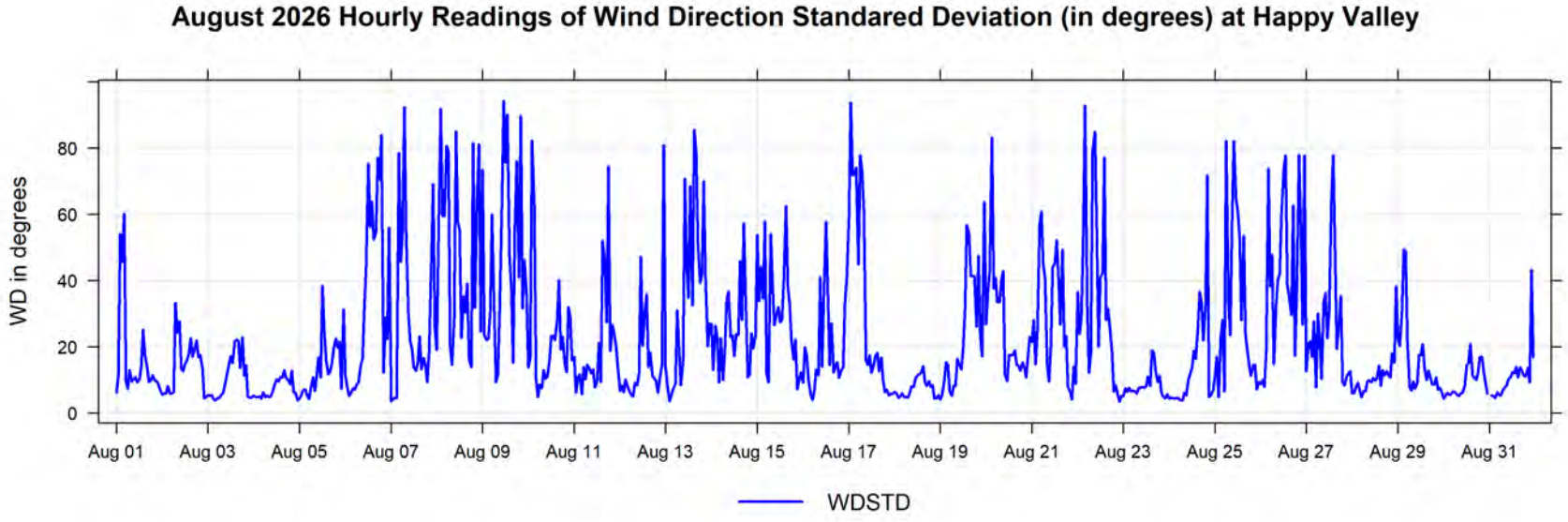

August 2026 Hourly Concentration Readings of PM2.5 in µg/m3 at Happy Valley
PM2.5 in µg/m3
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
PM2.5
AAAQG Limit = 80 µg/m3
Average = 9.6 µg/m3

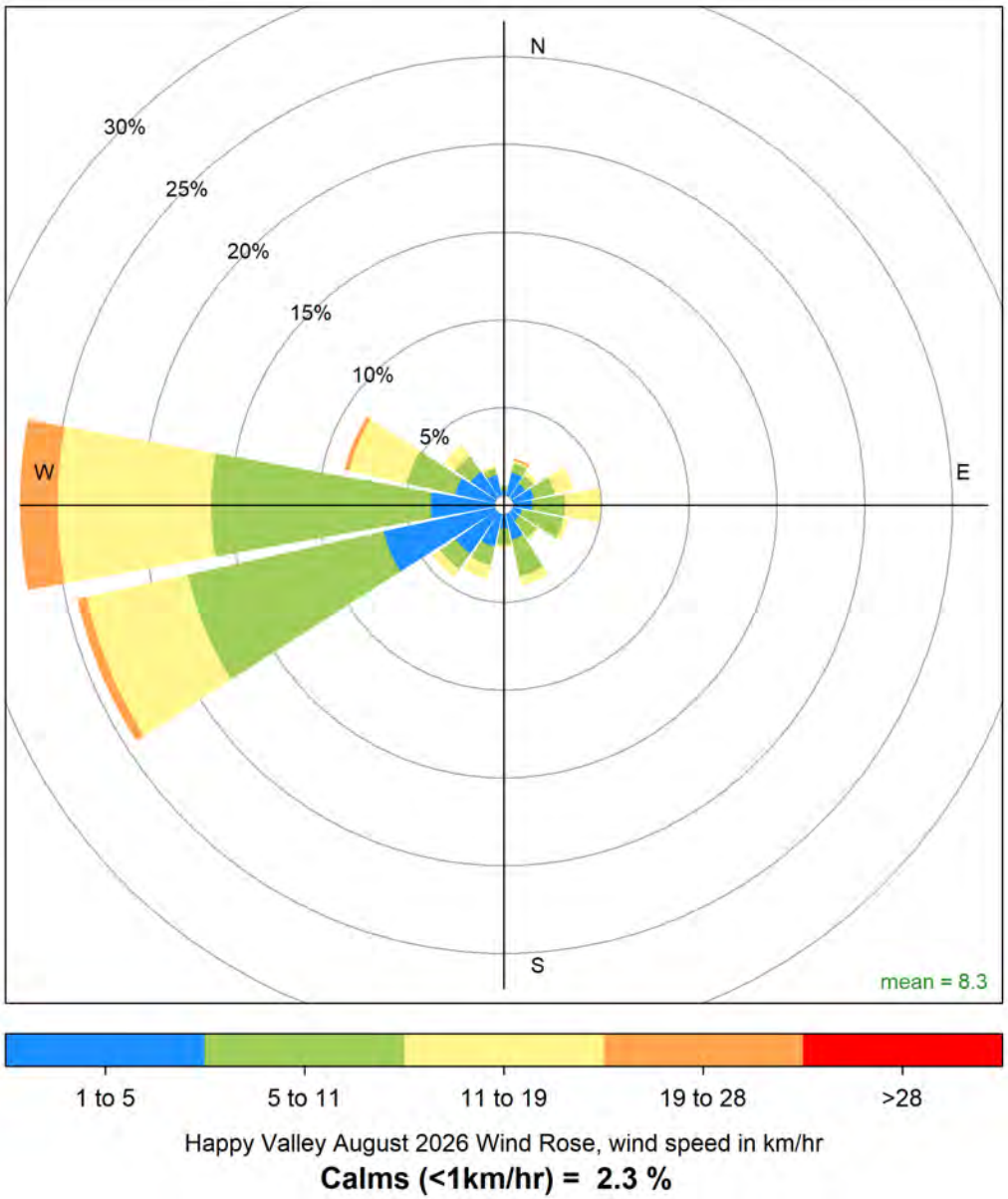

Number of Hours
0
200
400
600
587
81
30
20
9
3
4
2
4
0
1
1
1
0
50
100
150
200
PM2.5 in µg/m3


August 2026 Hourly Temperature Readings (in °C) at Happy Valley
Temperature in °C
30
20
10
0
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
Temperature
Average = 15.6 °C


August 2026 Hourly Readings of Wind Speed (in km/hr) at Happy Valley
WS in km/hr
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WS
Average = 8.3 km/hr


August 2026 Hourly Readings of Wind Direction (in degrees) at Happy Valley
WD in degrees
0
100
200
300
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WD


August 2026 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Happy Valley
WD in degrees
0
20
40
60
80
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WDSTD

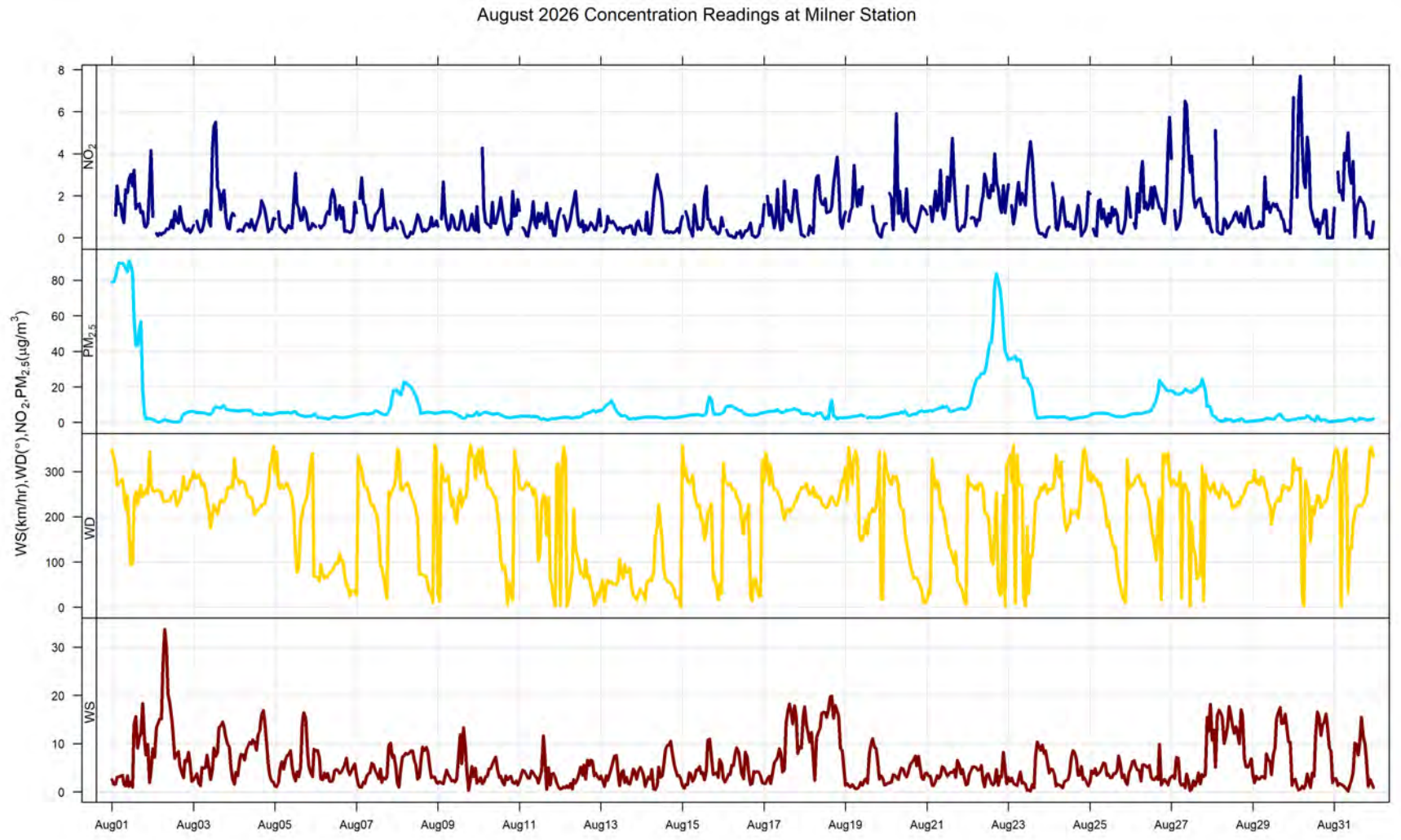


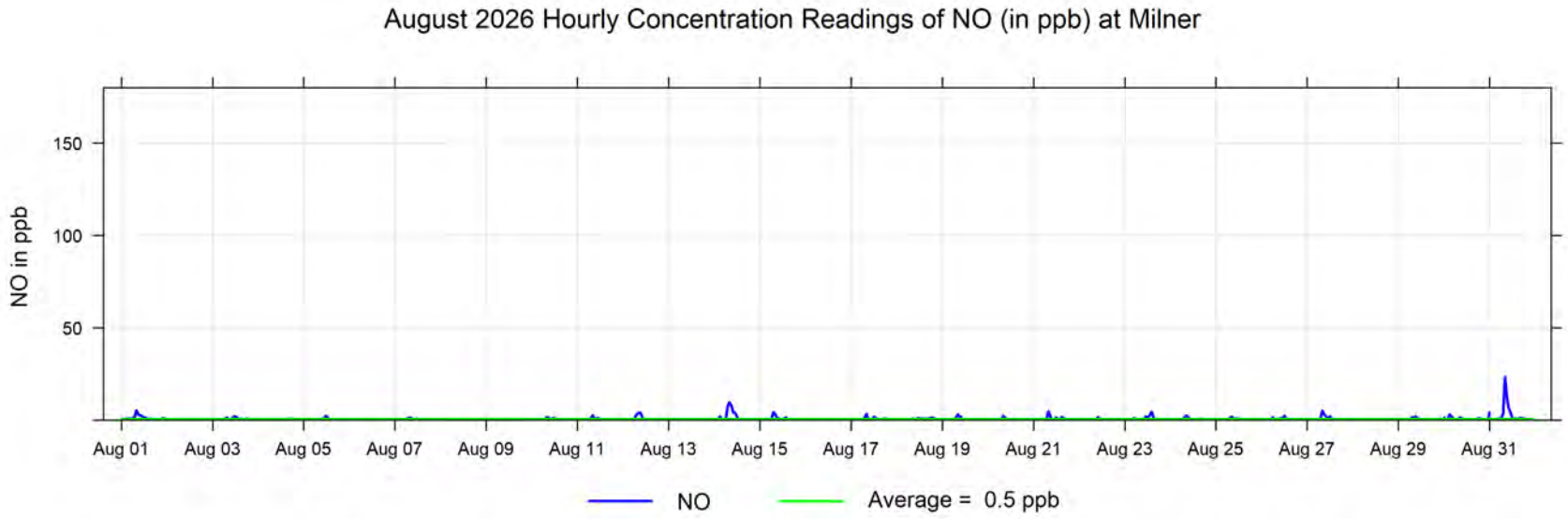
Happy Valley August 2026 Wind Rose, wind speed in km/hr

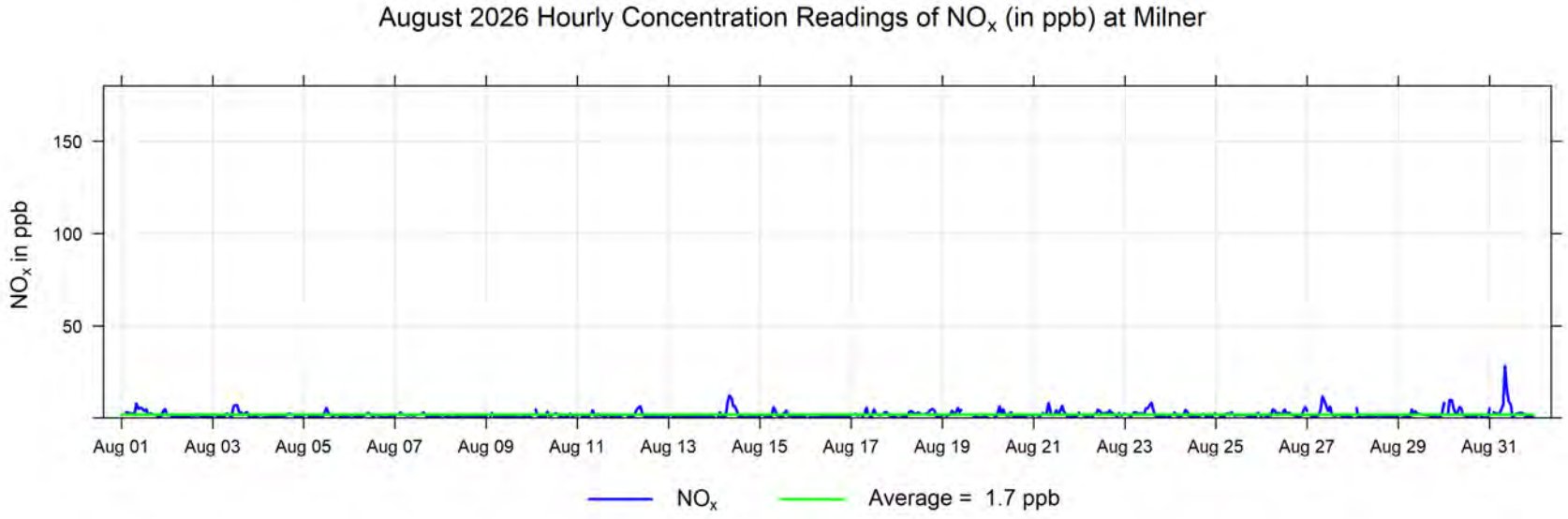
Calms (<1km/hr) = 2.3 %

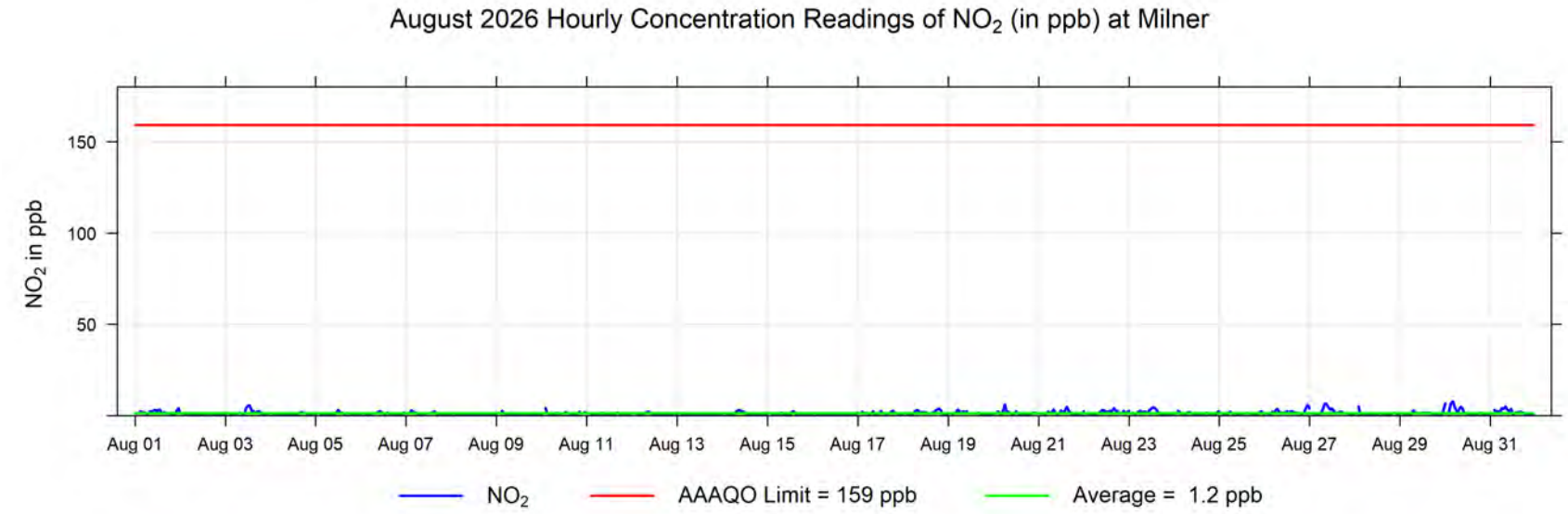
9 Milner Charts

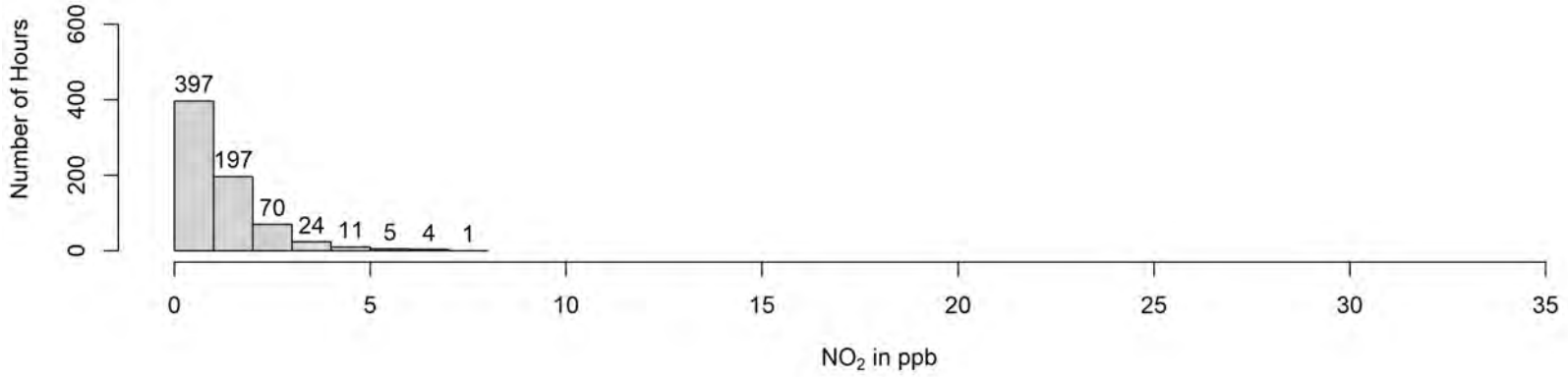
The following pages include the charts and histograms for Milner Station

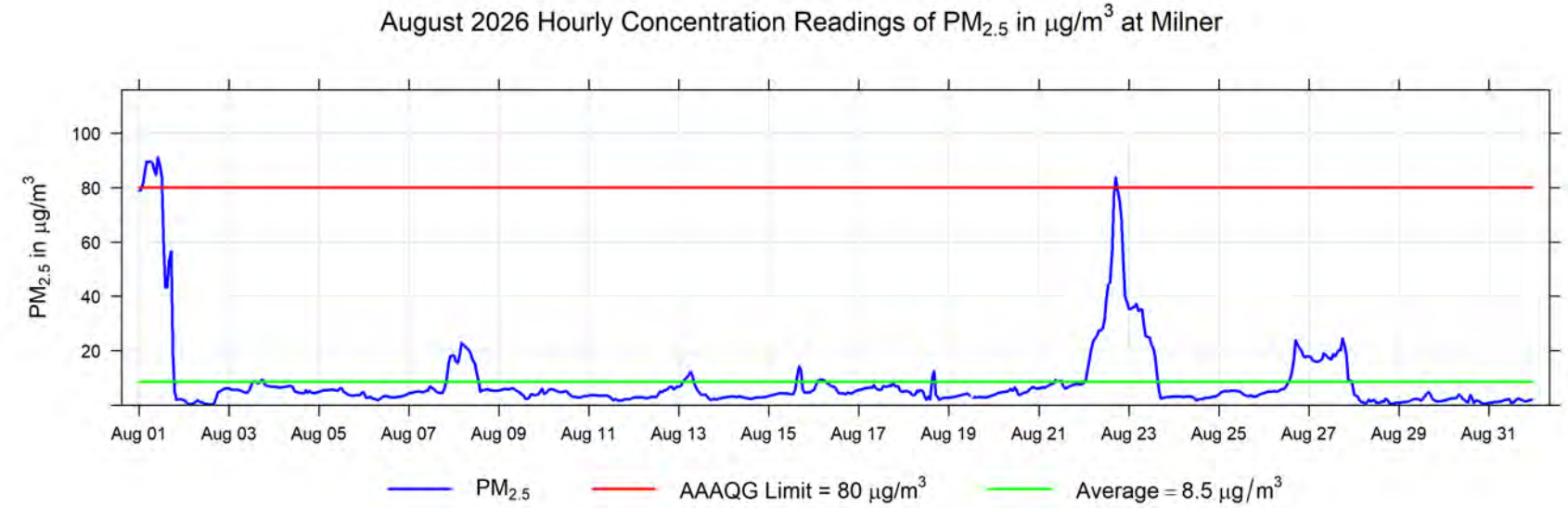


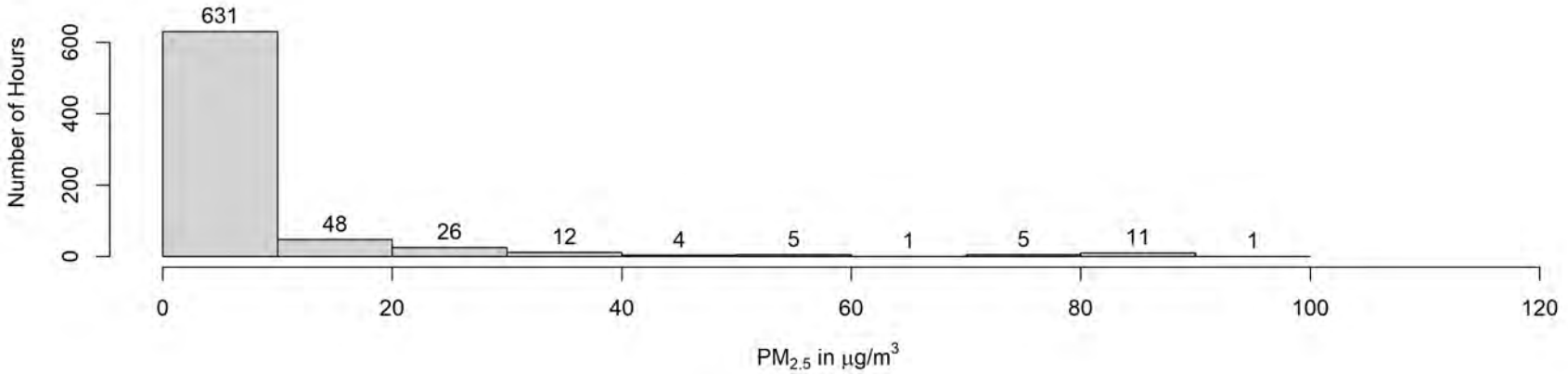

August 2026 Hourly Concentration Readings of NO (in ppb) at Milner
NO in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NO
Average = 0.5 ppb

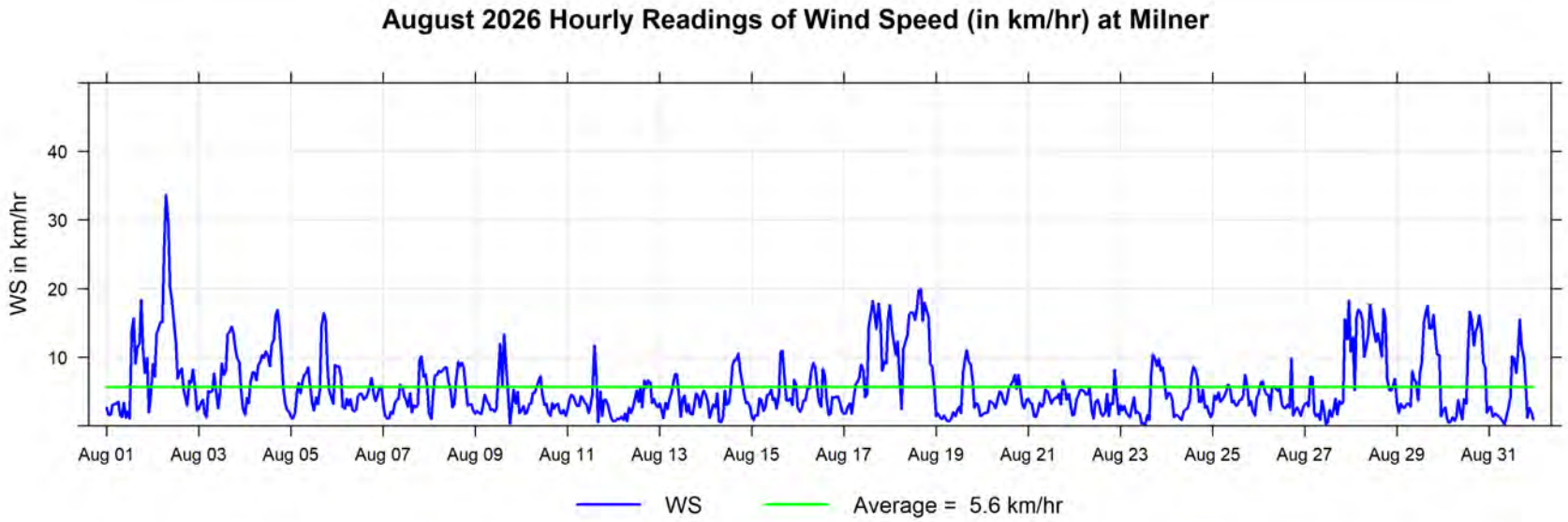

August 2026 Hourly Concentration Readings of NOx (in ppb) at Milner
NOx in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NOx
Average = 1.7 ppb

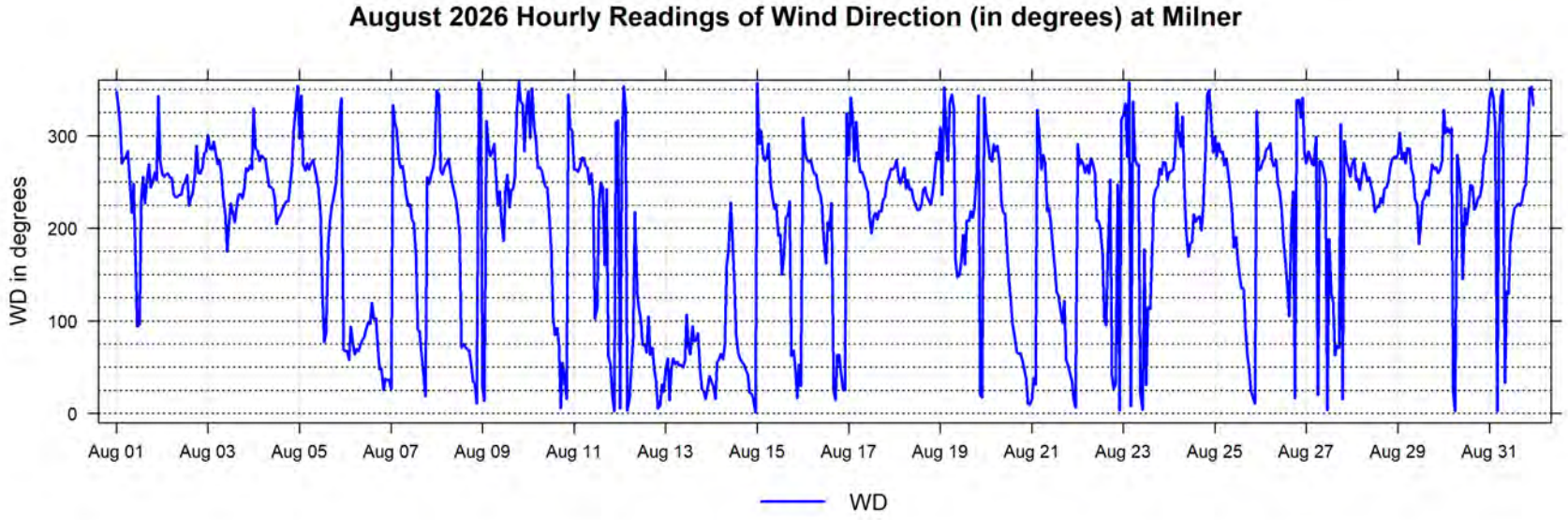

August 2026 Hourly Concentration Readings of NO2 (in ppb) at Milner
NO2 in ppb
150
100
50
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
NO2
AAAQO Limit = 159 ppb
Average = 1.2 ppb

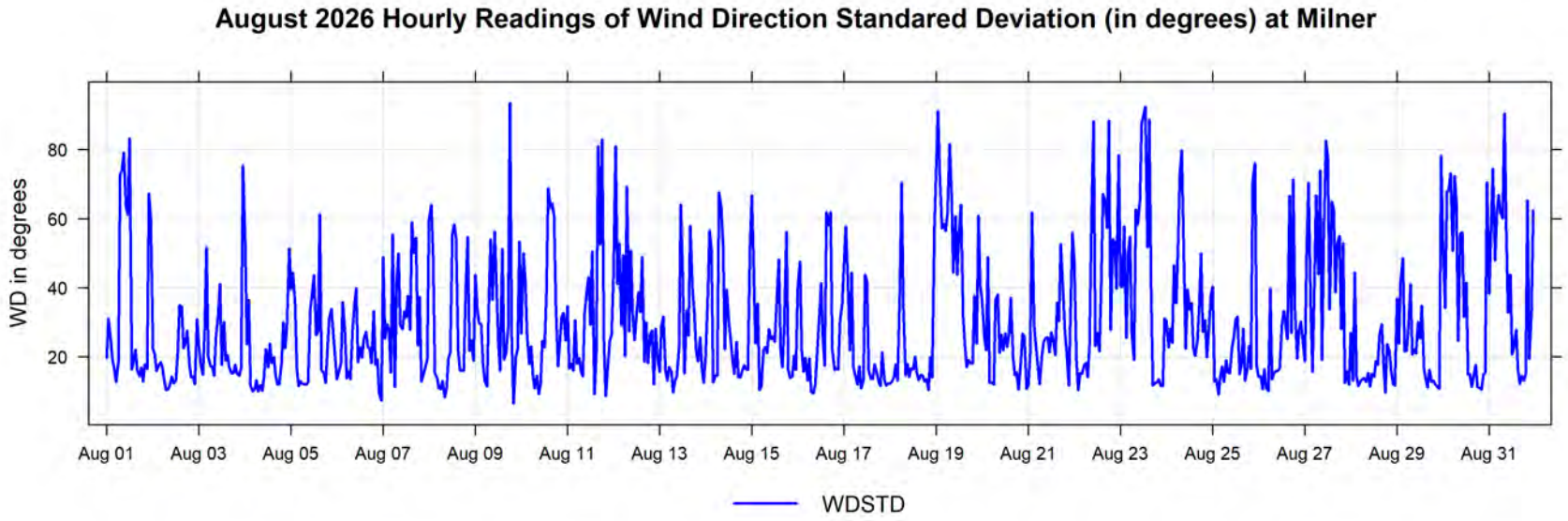

Number of Hours
0
200
400
600
397
197
70
24
11
5
4
1
0
5
10
15
20
25
30
35
NO2 in ppb

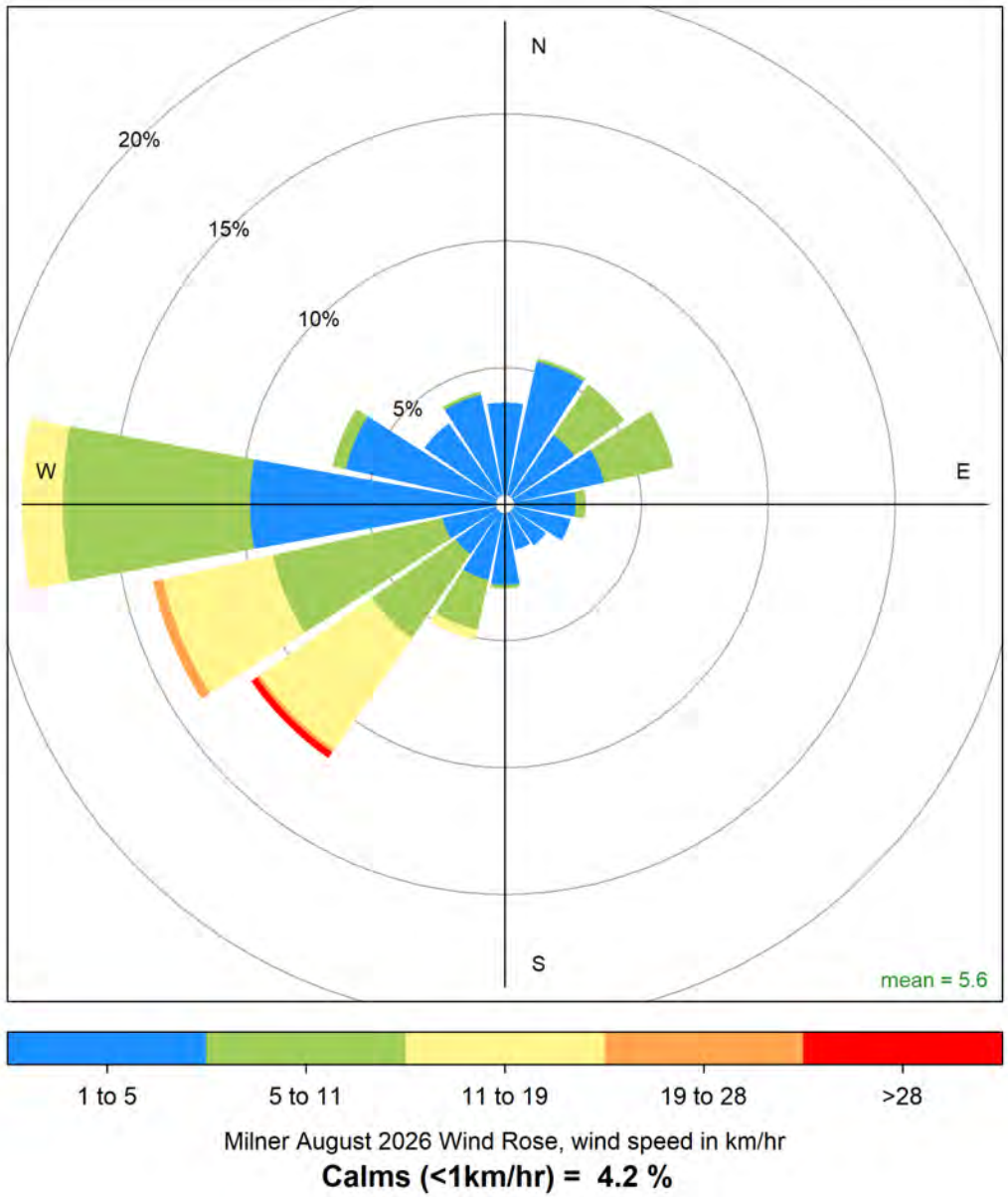

August 2026 Hourly Concentration Readings of PM2.5 in µg/m3 at Milner
PM2.5 in µg/m3
100
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
PM2.5
AAAQG Limit = 80 µg/m3
Average = 8.5 µg/m3


Number of Hours
0
200
400
600
631
48
26
12
4
5
1
5
11
1
0
20
40
60
80
100
120
PM2.5 in µg/m3


August 2026 Hourly Readings of Wind Speed (in km/hr) at Milner
WS in km/hr
40
30
20
10
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WS
Average = 5.6 km/hr


August 2026 Hourly Readings of Wind Direction (in degrees) at Milner
WD in degrees
300
200
100
0
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WD


August 2026 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Milner
WD in degrees
80
60
40
20
Aug 01
Aug 03
Aug 05
Aug 07
Aug 09
Aug 11
Aug 13
Aug 15
Aug 17
Aug 19
Aug 21
Aug 23
Aug 25
Aug 27
Aug 29
Aug 31
WDSTD



Milner August 2026 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 4.2 %

10 Passive Monitoring Data

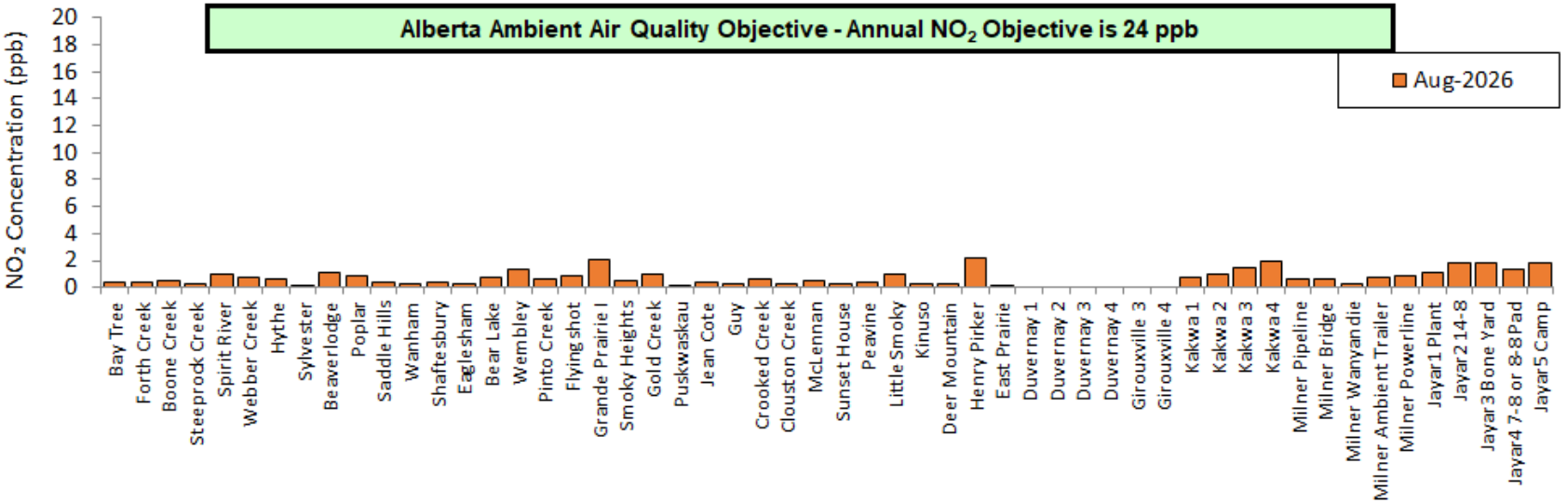
Peace Airshed Zone Association - PAZA Passive Stations for August 2026

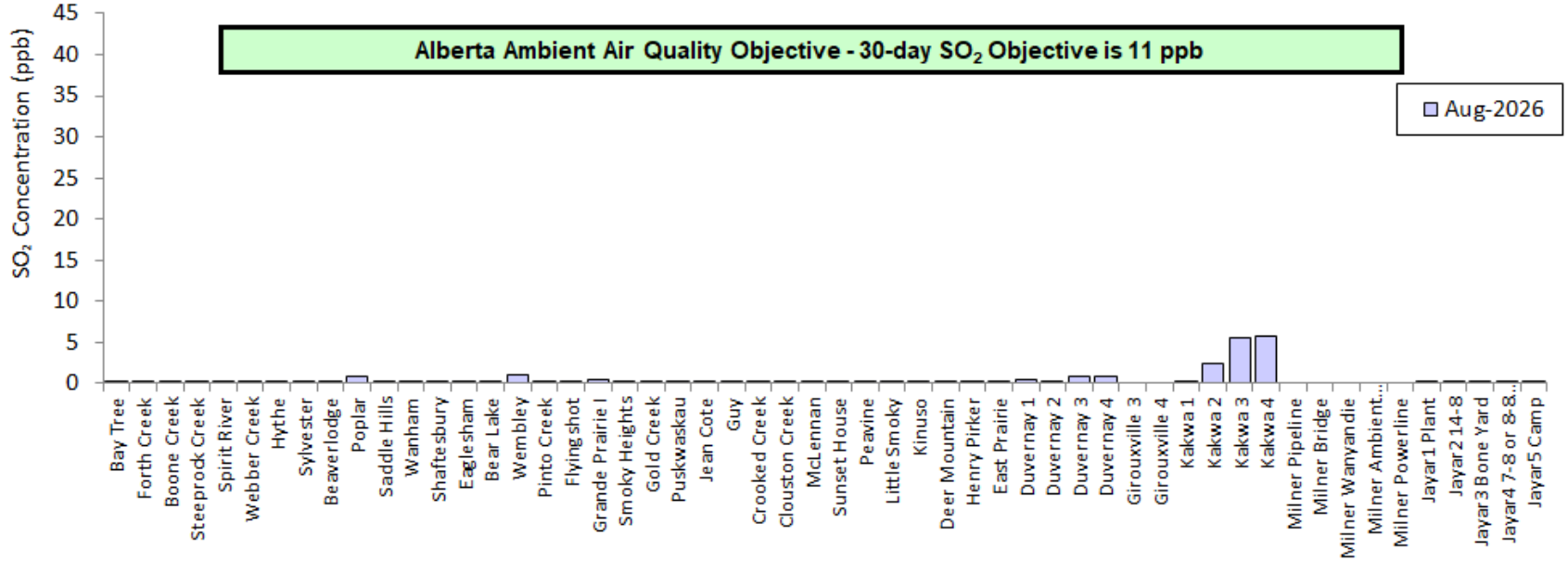
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
Duplicates						
9a	Spirit River	**0.3**				08-12-079-07 W6M
9b	Spirit River	**0.3**				
17a	Poplar	**0.9**				13-06-073-08 W6M
17b	Poplar	**0.8**				
19a	Wanham	**0.2**				16-22-077-03 W6M
19b	Wanham	**0.3**				
26a	Flyingshot			**1.0**		15-36-070-07 W6M
26b	Flyingshot			**0.9**		
37a	Crooked Creek		**21.4**			16-01-071-26 W5M
37b	Crooked Creek		**20.8**			
40a	McLennan			**0.5**		03-29-077-19 W5M
40b	McLennan			**0.5**		
44a	Peavine			**0.4**		03-05-079-15 W5M
44b	Peavine			**0.3**		
47a	Kinuso	**0.1**				12-10-073-10 W5M
47b	Kinuso	**0.1**				
50a	East Prairie			**0.2**		11-13-079-08 W6M
50b	East Prairie			**0.2**		
G4a	Girouxville 4				**0.36**	04-08-077-22 W5M
G4b	Girouxville 4				**0.37**	
D3a	Duvernay 3	**0.9**			**0.12**	04-33-062-20 W5M
D3b	Duvernay 3	**0.9**			**0.12**	
K2a	Kakwa 2			**1.0**		08-13-063-05 W6M
K2b	Kakwa 2			**0.9**		
K1a	Kakwa 1	**0.1**				01-13-063-05 W6M
K1b	Kakwa 1	**0.1**				
K3a	Kakwa 3				**0.05**	12-18-063-04 W6M
K3b	Kakwa 3				**0.05**	
M9Aa	Milner Pipeline			**0.6**		12-14-058-08 W6M
M9Ab	Milner Pipeline			**0.7**		
M10a	Milner Powerline	**<0.1**				06-14-058-08 W6M
M10b	Milner Powerline	**<0.1**				
J5Da	Jayar5 Camp			**1.7**		11-08-062-03 W6M
J5Db	Jayar5 Camp			**1.9**		
J3Da	Jayar3 Bone Yard	**0.3**				14-08-062-03 W6M
J3Db	Jayar3 Bone Yard	**0.3**				
J1Da	Jayar1 Plant				**0.04**	06-08-062-03 W6M
J1Db	Jayar1 Plant				**0.04**	

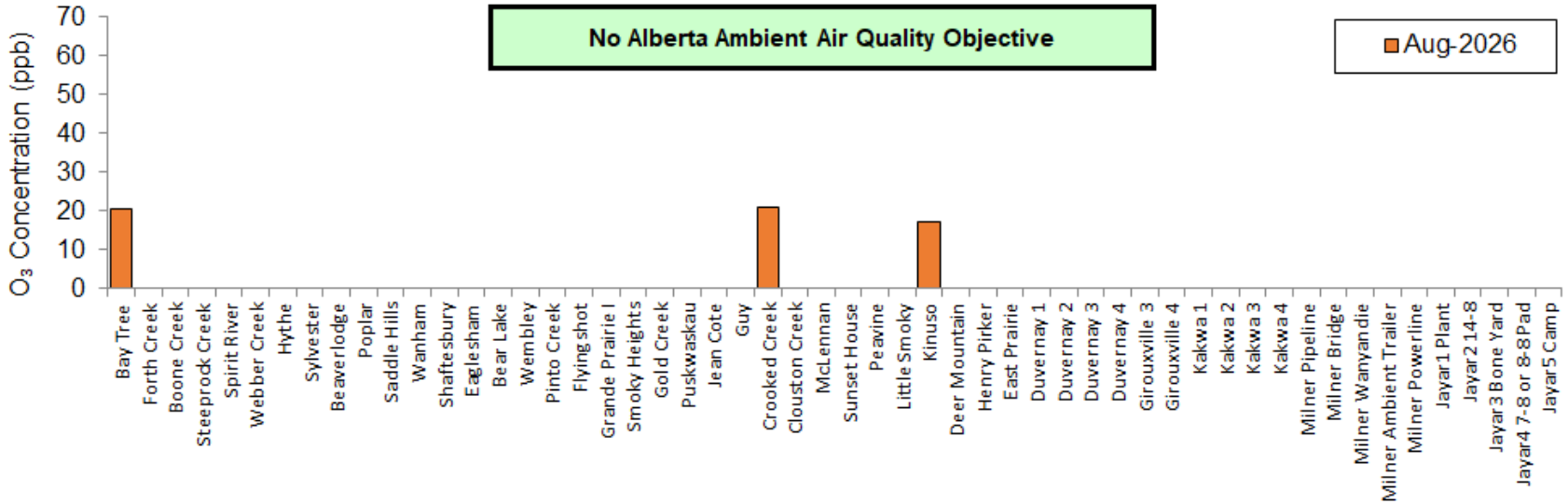
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
2	Bay Tree	0.1	20.4	0.4	-	13-16-078-13 W6M
3	Forth Creek	0.2	-	0.4	-	04-13-082-07 W6M
5	Boone Creek	0.3	-	0.5	-	01-23-076-11 W6M
7	Steeprock Creek	0.2	-	0.3	-	09-35-072-13 W6M
9	Spirit River	0.3	-	1.0	-	08-12-079-07 W6M
11	Webber Creek	0.3	-	0.7	-	09-36-074-09 W6M
12	Hythe	0.2	-	0.6	-	14-36-072-11 W6M
14	Sylvester	0.2	-	0.2	-	08-06-069-12 W6M
16	Beaverlodge	0.3	-	1.1	-	15-36-071-10 W6M
17	Poplar	0.8	-	0.9	-	13-06-073-08 W6M
18	Saddle Hills	0.2	-	0.4	-	04-25-074-07 W6M
19	Wanham	0.3	-	0.3	-	16-22-077-03 W6M
20	Shaftesbury	0.1	-	0.4	-	04-03-082-23 W5M
21	Eaglesham	0.1	-	0.2	-	16-21-079-25 W5M
23	Bear Lake	0.2	-	0.8	-	15-31-072-06 W6M
24	Wembley	1.0	-	1.4	-	12-31-070-08 W6M
25	Pinto Creek	0.1	-	0.6	-	04-24-069-11 W6M
26	Flyingshot	0.3	-	0.9	-	15-36-070-07 W6M
27	Grande Prairie I	0.4	-	2.0	-	08-15-071-06 W6M
29	Smoky Heights	0.2	-	0.5	-	04-06-075-02 W6M
32	Gold Creek	0.3	-	1.0	-	06-33-067-05 W6M
34	Puskwaskau	0.1	-	0.2	-	15-35-074-25 W5M
35	Jean Cote	0.2	-	0.4	-	12-35-079-21 W5M
36	Guy	0.1	-	0.3	0.19	03-04-076-22 W5M
37	Crooked Creek	0.1	21.1	0.6	-	16-01-071-26 W5M
39	Clouston Creek	0.1	-	0.3	-	12-01-073-22 W5M
40	McLennan	0.2	-	0.5	-	03-29-077-19 W5M
42	Sunset House	0.1	-	0.3	-	05-32-070-19 W5M
44	Peavine	0.1	-	0.4	-	03-05-079-15 W5M
46	Little Smoky	0.0	-	0.9	-	12-01-065-21 W5M
47	Kinuso	0.1	17.3	0.3	-	12-10-073-10 W5M
48	Deer Mountain	0.0	-	0.2	-	15-22-068-09 W5M
49	Henry Pirker	0.3	-	2.1	-	17-26-071-06 W6M
50	East Prairie	0.1	-	0.2	-	11-13-079-08 W6M
D1	Duvernay 1	0.5	-	-	0.07	04-33-062-20 W5M
D2	Duvernay 2	0.3	-	-	0.10	04-33-062-20 W5M
D3	Duvernay 3	0.9	-	-	0.12	04-33-062-20 W5M
D4	Duvernay 4	0.8	-	-	0.15	04-33-062-20 W5M
G3	Girouxville 3	-	-	-	0.47	14-02-077-23 W5M
G4	Girouxville 4	-	-	-	0.36	04-08-077-22 W5M
K1	Kakwa 1	0.1	-	0.8	<0.02	01-13-063-05 W6M
K2	Kakwa 2	2.4	-	1.0	0.04	08-13-063-05 W6M
K3	Kakwa 3	5.6	-	1.5	0.05	12-18-063-04 W6M
K4	Kakwa 4	5.7	-	1.9	0.05	06-18-063-04 W6M
M1	Milner Pipeline	<0.1	-	0.7	-	12-14-058-08 W6M
M2	Milner Bridge	<0.1	-	0.6	-	08-06-057-08 W6M
M3	Milner Wanyandie	<0.1	-	0.3	-	11-13-058-08 W6M
M4	Milner Ambient Trailer	<0.1	-	0.7	-	09-15-058-08 W6M
M5	Milner Powerline	<0.1	-	0.9	-	06-14-058-08 W6M
J1	Jayar1 Plant	0.3	-	1.1	0.04	06-08-062-03 W6M
J2	Jayar2 14-8	0.2	-	1.8	0.05	07-08-062-03 W6M
J3	Jayar3 Bone Yard	0.3	-	1.8	0.05	14-08-062-03 W6M
J4	Jayar4 7-8 or 8-8 Pad	0.3	-	1.3	0.03	10-08-062-03 W6M
J5	Jayar5 Camp	0.2	-	1.8	0.09	11-08-062-03 W6M

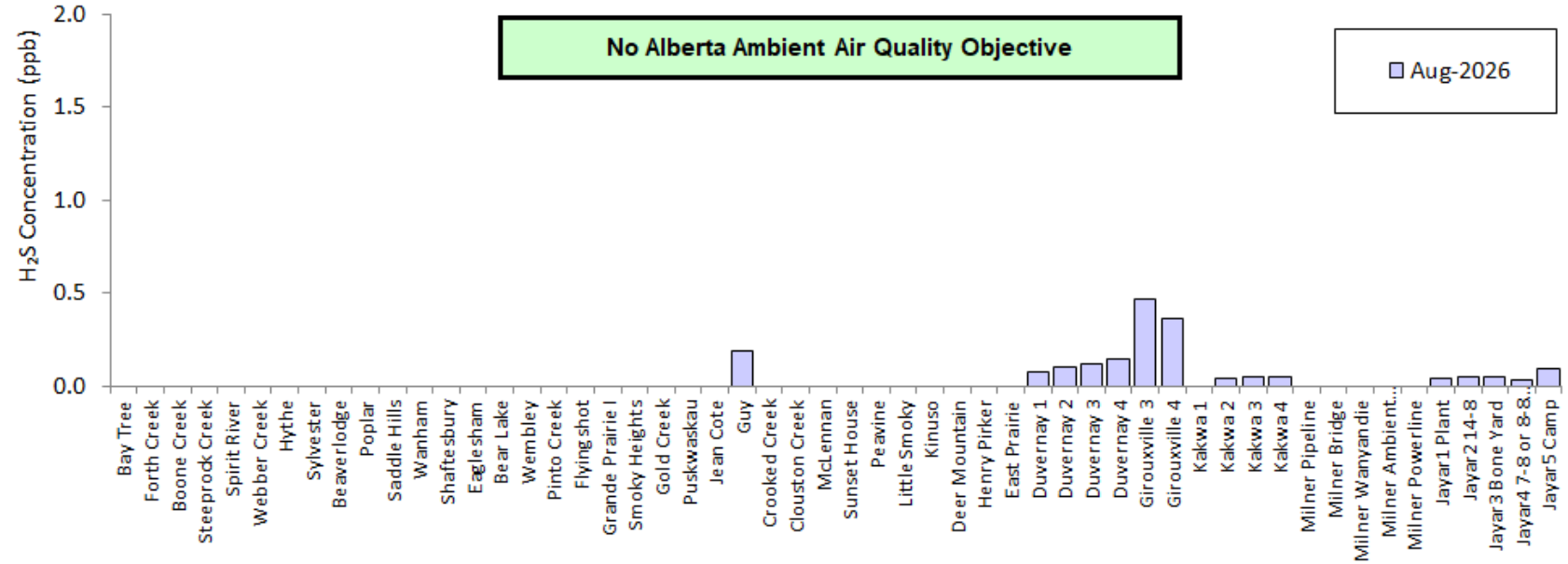
Passive Summary for August 2026

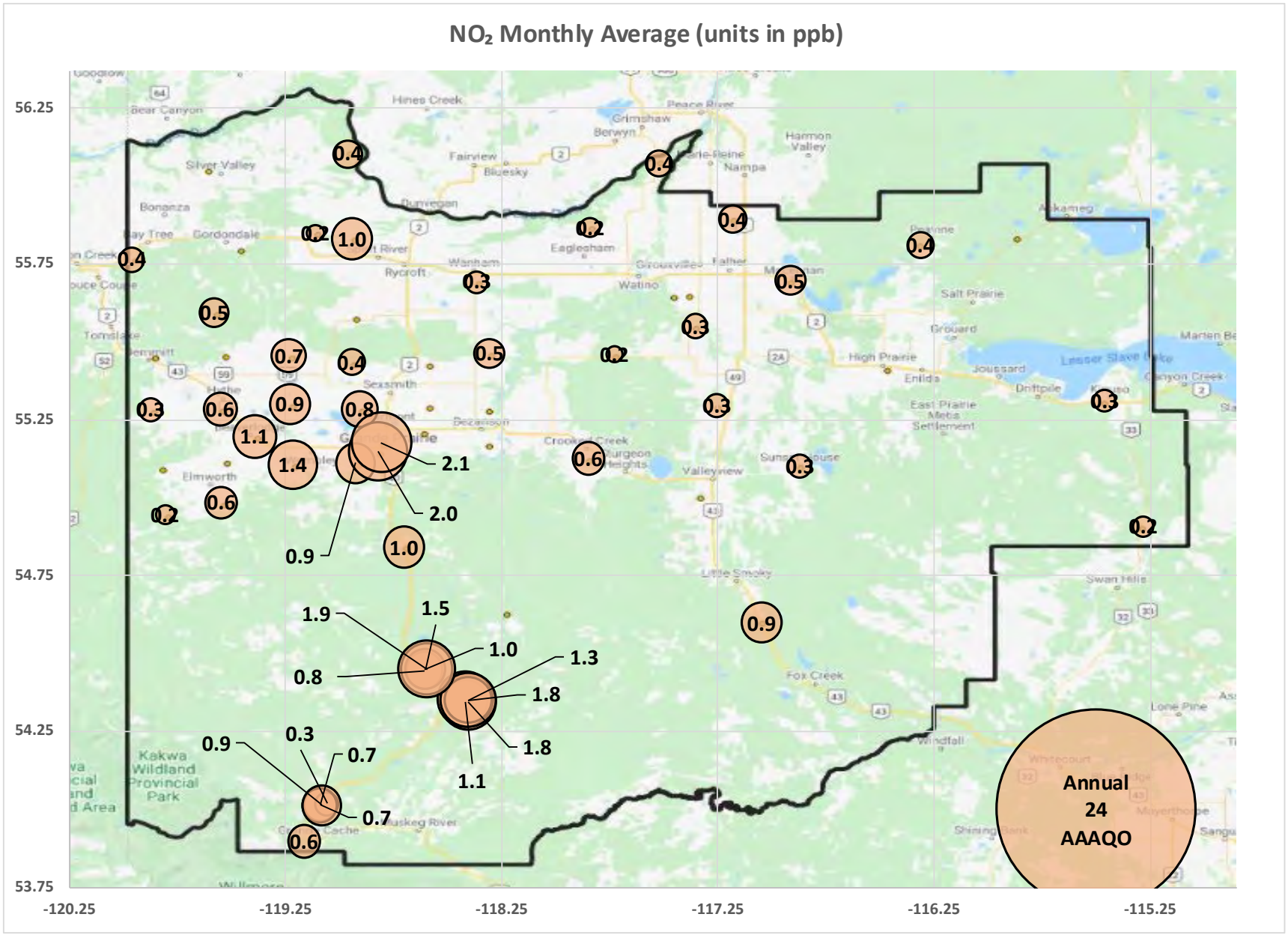
Stats	Sulphur Dioxide SO_2	Ozone O_3	Nitrogen Dioxide NO_2	Hydrogen Sulphide H_2S
	ppb	ppb	ppb	ppb
	Passive Summary for August 2026 (PAZA)			
Mean	0.5	19.6	0.8	0.1
Standard Deviation	1.2	2.0	0.5	0.1
Minimum	0.0 Deer Mountain (#48)	17.3 Kinuso (#47)	0.2 Puskwaskau (#34)	0.0 Jayar4 7-8 or 8-8 Pad
Maximum	5.7 Kakwa 4 (#K4)	21.1 Crooked Creek (#37)	2.1 Henry Pirker (#49)	0.5 Girouxville 3 (#G3)
	Continuous and Passive Monitoring Comparision			
PAZA Beaverlodge Station	**0.4**	**22.7**	**2.4**	**-**
Beaverlodge Passive (#16)	**0.3**	**-**	**1.1**	**-**
PAZA Henry Pirker Station	**0.1**	**20.1**	**4.5**	**0.2**
Henry Pirker passive (#49)	**0.3**	**-**	**2.1**	**-**
Milner Station	**-**	**-**	**1.2**	**-**
Milner passive	**<0.1**	**-**	**0.7**	**-**

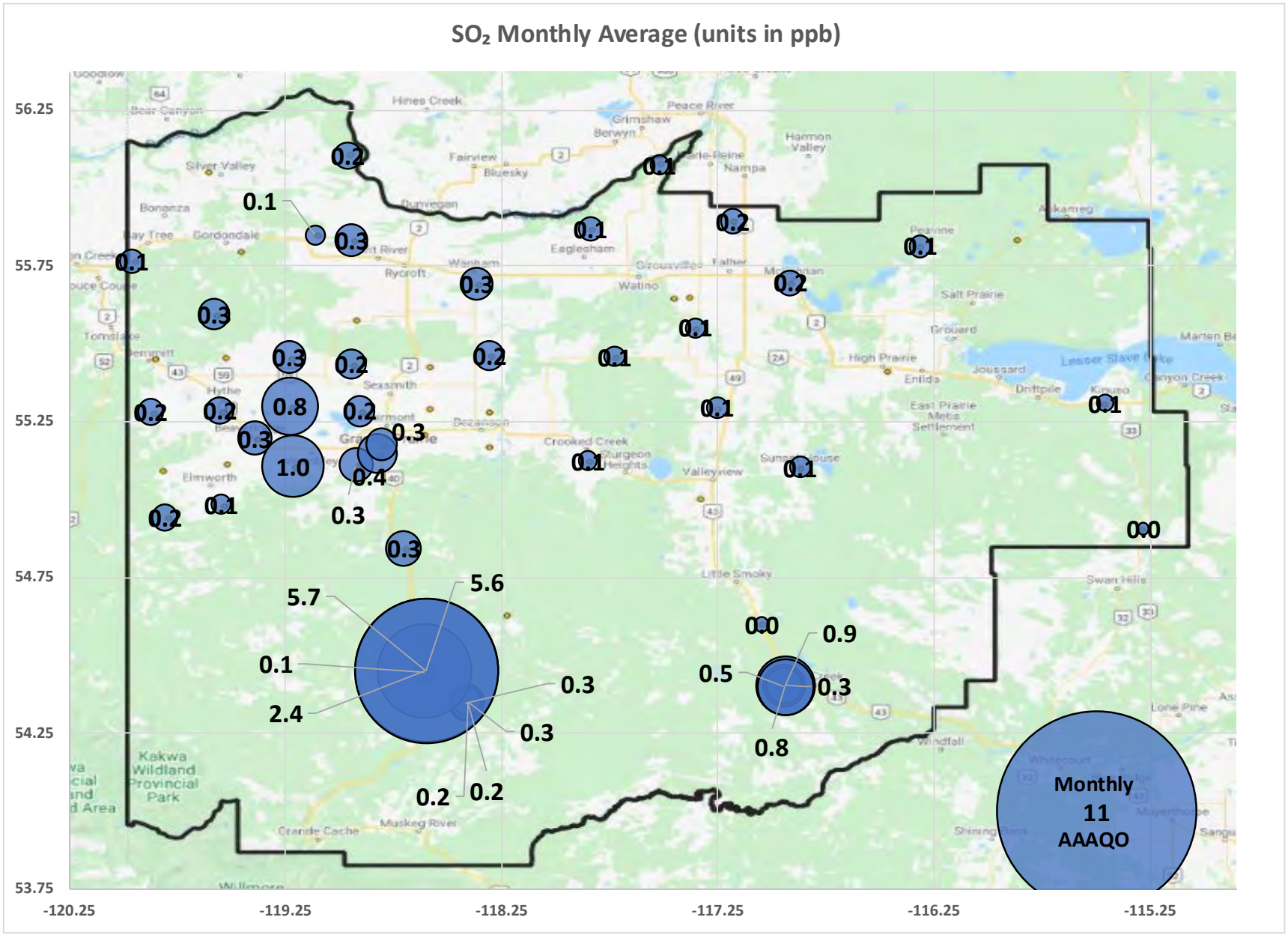

Alberta Ambient Air Quality Objective - Annual NO2 Objective is 24 ppb
NO2 Concentration (ppb)
Aug-2026
0
2
4
6
8
10
12
14
16
18
20
Bay Tree
Forth Creek
Boone Creek
Steeprock Creek
Spirit River
Webber Creek
Hythe
Sylvester
Beaverlodge
Poplar
Saddle Hills
Wanham
Shaftesbury
Eaglesham
Bear Lake
Wembley
Pinto Creek
Flying shot
Grande Prairie I
Smoky Heights
Gold Creek
Puskwaskau
Jean Cote
Guy
Crooked Creek
Clouston Creek
McLennan
Sunset House
Peavine
Little Smoky
Kinuso
Deer Mountain
Henry Pirker
East Prairie
Duvernay 1
Duvernay 2
Duvernay 3
Duvernay 4
Girouxville 3
Girouxville 4
Kakwa 1
Kakwa 2
Kakwa 3
Kakwa 4
Milner Pipeline
Milner Bridge
Milner Wanyandie
Milner Ambient Trailer
Milner Powerline
Jayar1 Plant
Jayar2 14-8
Jayar3 Bone Yard
Jayar4 7-8 or 8-8Pad
Jayar5 Camp

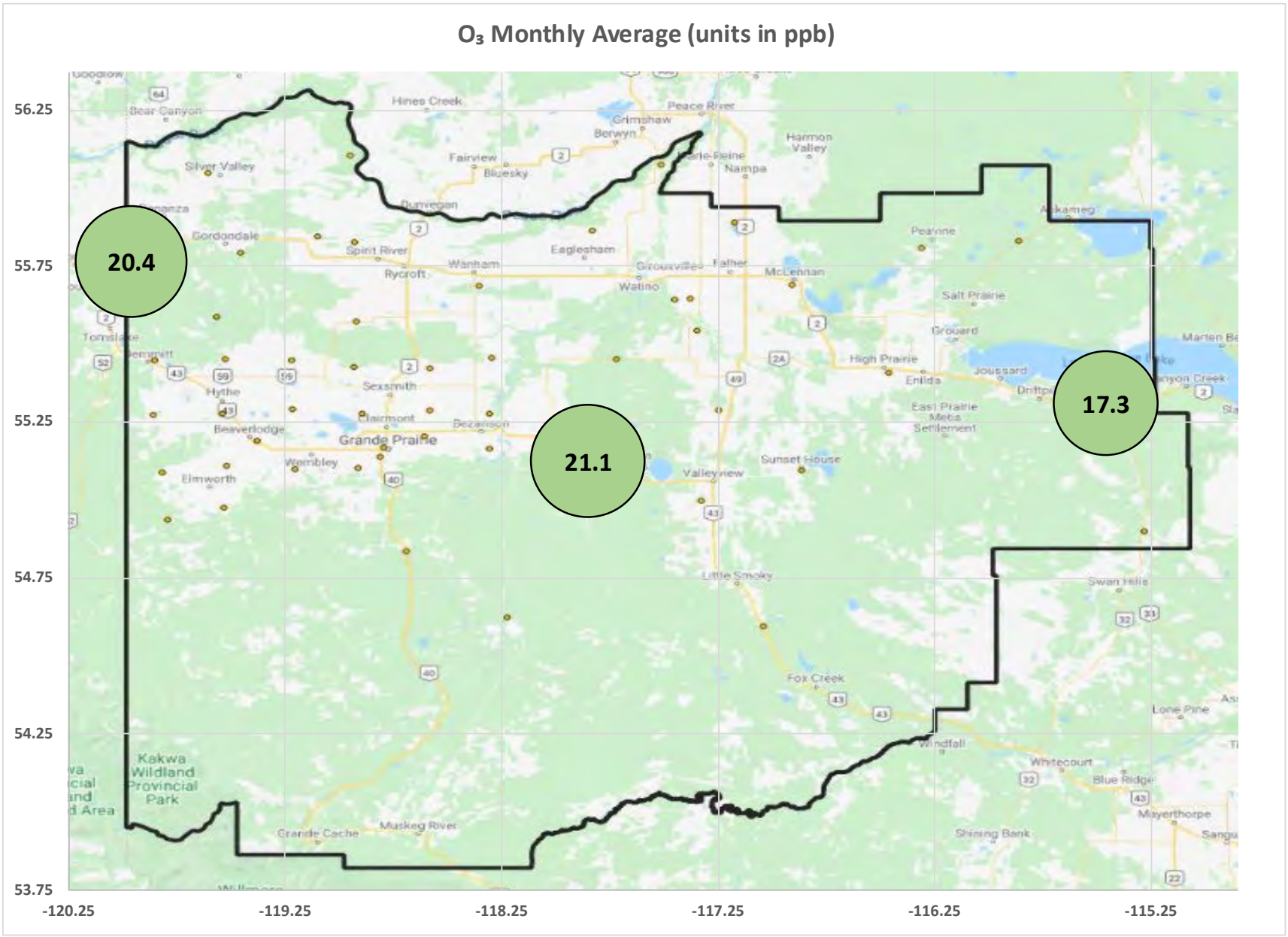

Alberta Ambient Air Quality Objective - 30-day SO2 Objective is 11 ppb
SO2 Concentration (ppb)
Aug-2026
0
5
10
15
20
25
30
35
40
45
Bay Tree
Forth Creek
Boone Creek
Steeprock Creek
Spirit River
Webber Creek
Hythe
Sylvester
Beaverlodge
Poplar
Saddle Hills
Wanham
Shaftesbury
Eaglesham
Bear Lake
Wembley
Pinto Creek
Flying shot
Grande Prairie I
Smoky Heights
Gold Creek
Puskwaskau
Jean Cote
Guy
Crooked Creek
Clouston Creek
McLennan
Sunset House
Peavine
Little Smoky
Kinuso
Deer Mountain
Henry Pirker
East Prairie
Duvernay 1
Duvernay 2
Duvernay 3
Duvernay 4
Girouxville 3
Girouxville 4
Kakwa 1
Kakwa 2
Kakwa 3
Kakwa 4
Milner Pipeline
Milner Bridge
Milner Wanyandie
Milner Ambient...
Milner Powerline
Jayar1 Plant
Jayar2 14-8
Jayar3 Bone Yard
Jayar4 7-8 or 8-8...
Jayar5 Camp

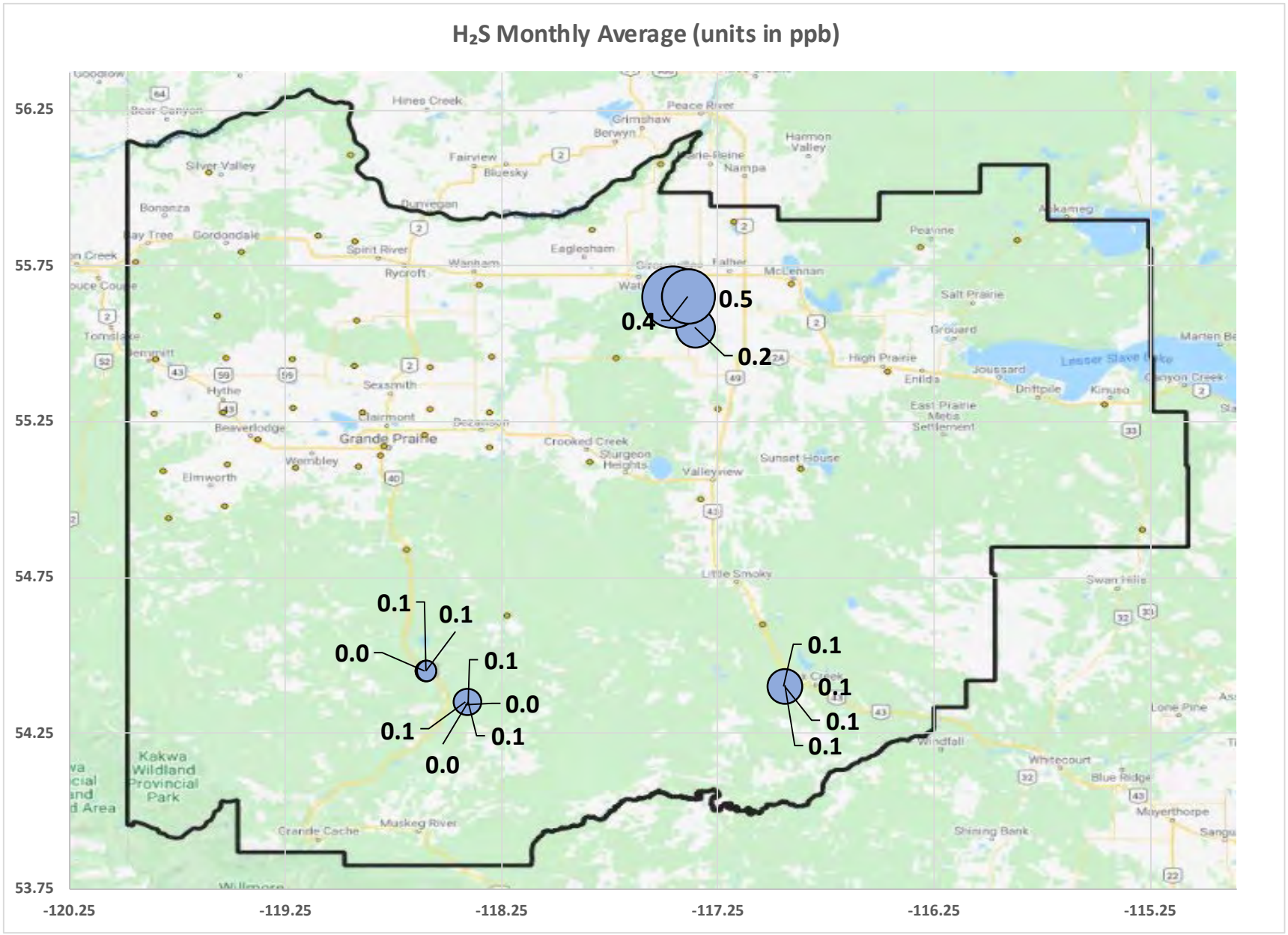

No Alberta Ambient Air Quality Objective
Aug-2026
O3 Concentration (ppb)
70
60
50
40
30
20
10
0
Bay Tree
Forth Creek
Boone Creek
Steeprock Creek
Spirit River
Webber Creek
Hythe
Sylvester
Beaverlodge
Poplar
Saddle Hills
Wanham
Shaftesbury
Eaglesham
Bear Lake
Wembley
Pinto Creek
Flying shot
Grande Prairie I
Smoky Heights
Gold Creek
Puskwaskau
Jean Cote
Guy
Crooked Creek
Clouston Creek
McLennan
Sunset House
Peavine
Little Smoky
Kinuso
Deer Mountain
Henry Pirker
East Prairie
Duvernay 1
Duvernay 2
Duvernay 3
Duvernay 4
Girouxville 3
Girouxville 4
Kakwa 1
Kakwa 2
Kakwa 3
Kakwa 4
Milner Pipeline
Milner Bridge
Milner Wanyandie
Milner Ambient Trailer
Milner Powerline
Jayar1 Plant
Jayar2 14-8
Jayar3 Bone Yard
Jayar4 7-8 or 8-8Pad
Jayar5 Camp


No Alberta Ambient Air Quality Objective
Aug-2026
H2S Concentration (ppb)
2.0
1.5
1.0
0.5
0.0
Bay Tree
Forth Creek
Boone Creek
Steeprock Creek
Spirit River
Webber Creek
Hythe
Sylvester
Beaverlodge
Poplar
Saddle Hills
Wanham
Shaftesbury
Eaglesham
Bear Lake
Wembley
Pinto Creek
Flying shot
Grande Prairie I
Smoky Heights
Gold Creek
Puskwaskau
Jean Cote
Guy
Crooked Creek
Clouston Creek
McLennan
Sunset House
Peavine
Little Smoky
Kinuso
Deer Mountain
Henry Pirker
East Prairie
Duvernay 1
Duvernay 2
Duvernay 3
Duvernay 4
Girouxville 3
Girouxville 4
Kakwa 1
Kakwa 2
Kakwa 3
Kakwa 4
Milner Pipeline
Milner Bridge
Milner Wanyandie
Milner Ambient...
Milner Powerline
Jayar1 Plant
Jayar2 14-8
Jayar3 Bone Yard
Jayar4 7-8 or 8-8...
Jayar5 Camp


NO₂ Monthly Average (units in ppb)
56.25
55.75
55.25
54.75
54.25
53.75
-120.25
-119.25
-118.25
-117.25
-116.25
-115.25
0.4
0.4
0.4
0.2
1.0
0.2
0.4
0.4
0.3
0.5
0.5
0.3
0.7
0.4
0.5
0.2
0.3
0.6
0.9
0.8
0.3
1.1
1.4
2.1
0.6
0.3
0.6
2.0
0.2
0.9
1.0
0.2
1.9
1.5
1.0
1.3
0.8
1.8
1.8
0.9
0.3
0.7
1.1
0.7
0.6
0.9
Annual
24
AAAQO
Hines Creek
Grimshaw
Peace River
Berwyn
Harmon Valley
Fairview
Bluesky
Nampa
Silver Valley
Bear Canyon
Bonanza
Gordondale
Dunvegan
Eaglesham
Rycroft
Watino
Grouard
Salt Prairie
High Prairie
Enilda
Joussard
Driftpile
East Prairie Metis Settlement
Sexsmith
Elmworth
Valleyview
Crooked Creek
Little Smoky
Swan Hills
Fox Creek
Windfall
Kakwa Wildland Provincial Park
Muskeg River


SO₂ Monthly Average (units in ppb)
56.25
55.75
55.25
54.75
54.25
53.75
-120.25
-119.25
-118.25
-117.25
-116.25
-115.25
Hines Creek
Peace River
Grimshaw
Berwyn
Harmon Valley
Fairview
Bluesky
Nampa
Silver Valley
Bonanza
Gordondale
Rycroft
Eaglesham
Watino
Grouard
Salt Prairie
High Prairie
Enilda
Joussard
Lesser Slave Lake
Driftpile
Kinuso
East Prairie Metis Settlement
Tomslake
Hythe
Seasmith
Crooked Creek
Valleyview
Elmworth
Little Smoky
Swan Hills
Kakwa Wildland Provincial Park
Grande Cache
Muskeg River
Windfall
Lone Pine
Monthly
11
AAAQO

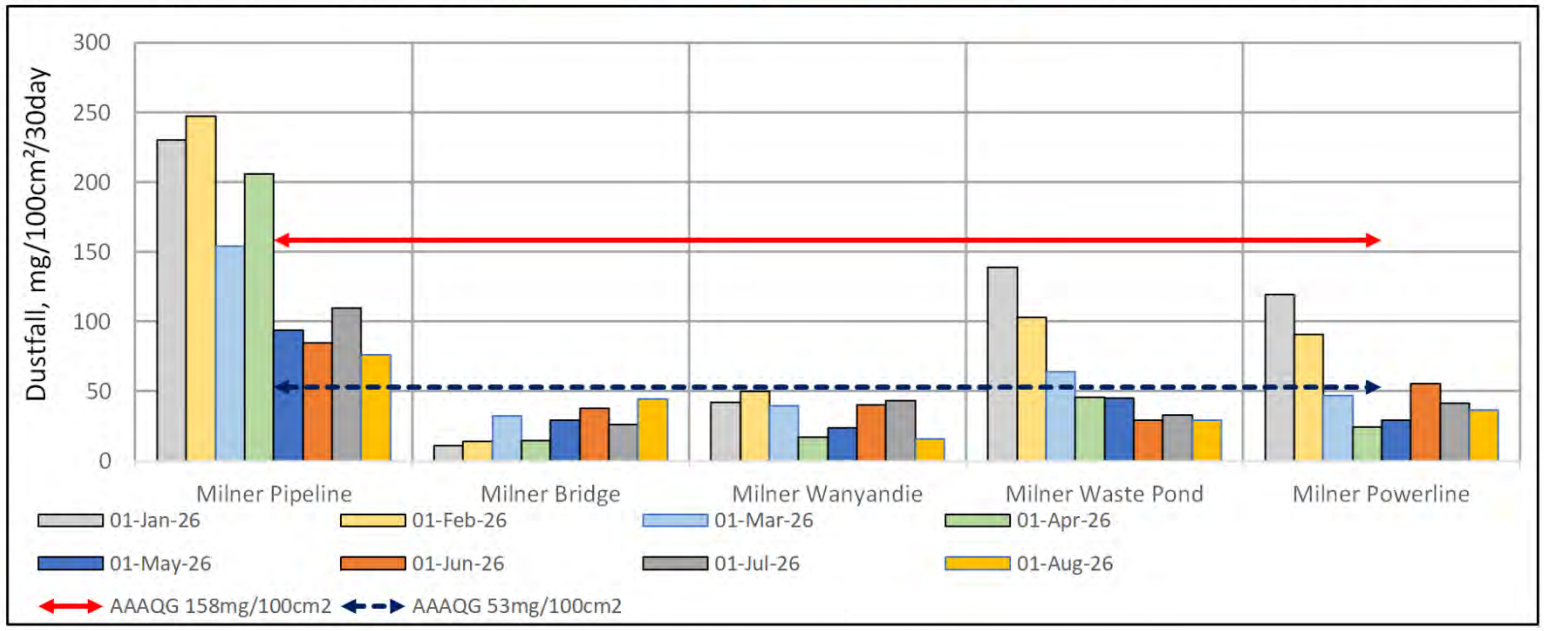

O₃ Monthly Average (units in ppb)
20.4
21.1
17.3
56.25
55.75
55.25
54.75
54.25
53.75
-120.25
-119.25
-118.25
-117.25
-116.25
-115.25
Hines Creek
Peace River
Grimshaw
Berwyn
Harmon Valley
Fairview
Bluesky
Nampa
Silver Valley
Dunvegan
Gordondale
Spirit River
Rycroft
Eaglesham
Watino
McLennan
Peerless
Salt Prairie
Grouard
High Prairie
Enilda
Joussard
Sexsmith
Hythe
Beaverlodge
Grande Prairie
Wembley
Elmworth
Valleyview
Sunset House
Little Smoky
Swan Hills
Fox Creek
Windfall
Whitecourt
Blue Ridge
Lone Pine
Meyerthorpe
Kakwa Wildland Provincial Park
Grande Cache
Muskeg River
Shining Bank


H2S Monthly Average (units in ppb)
56.25
55.75
55.25
54.75
54.25
53.75
-120.25
-119.25
-118.25
-117.25
-116.25
-115.25
0.5
0.4
0.2
0.1
0.1
0.0
0.1
0.0
0.1
0.1
0.0
0.1
0.1
0.1
0.1
Grande Prairie
Peace River
Fairview
Dunvegan
Spirit River
Rycroft
Wanham
Eaglesham
McLennan
Salt Prairie
Grouard
High Prairie
Enilda
Joussard
Lesser Slave Lake
Driftpile
Kinuso
East Prairie Metis Settlement
Sunset House
Valleyview
Crooked Creek
Sturgeon Heights
Clairmont
Beaverlodge
Hythe
Sexsmith
Wembley
Elmworth
Little Smoky
Swan Hills
Kakwa Wildland Provincial Park
Grande Cache
Muskeg River
Windfall
Whitecourt
Blue Ridge
Mayerthorpe
Lone Pine
Shining Bank

11 Dustfall Monitoring Data

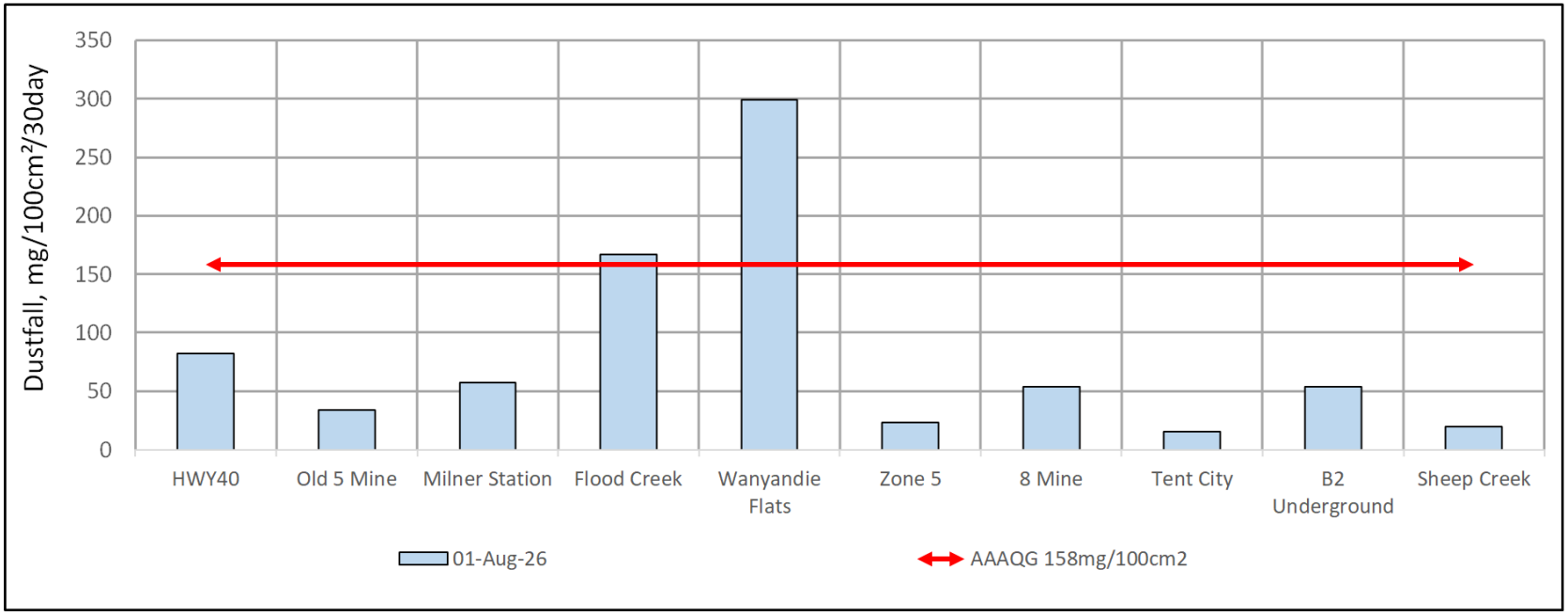
Milner Dustfall Samples August 2026

Exposure Month	Year	Sample	Total Dustfall (30 day) mg/100cm²/30day	Fixed Dustfall (30 day) mg/100cm²/30day	Exposure days	Field Notes
August	2026	Milner Pipeline	75.9	14.6	35	
August	2026	Milner Bridge	44.5	25.1	35	
August	2026	Milner Wanyandie	15.6	7.8	35	
August	2026	Milner Waste Pond	29.2	13.9	35	
August	2026	Milner Powerline	36.2	10.4	35	
August	2026	Milner Powerline Dup	18.1	9.0	35	RPD, 67% / 14%



CST Grande Cache Dustfall Samples August 2026

Exposure Month	Year	Sample	Total Dustfall (30 day) mg/100cm²/30day	Fixed Dustfall (30 day) mg/100cm²/30day	Exposure days	Field Notes
August	2026	HWY40	82.5	14.3	31	
August	2026	Old 5 Mine	34.1	1.1	31	
August	2026	Milner Station	57.2	19.8	31	
August	2026	Flood Creek	**167.2**	37.4	31	
August	2026	Wanyandie Flats	**299.0**	63.7	31	
August	2026	Zone 5	23.1	13.2	31	
August	2026	8 Mine	54.0	17.6	31	
August	2026	Tent City	15.4	5.5	31	
August	2026	B2 Underground	53.9	20.9	31	
August	2026	Sheep Creek	19.8	3.3	31	



12 End of Report

End of Report

Peace Airshed Zone Association

Peace Airshed Zone Association

Ambient Air Monitoring Report

August 2026