



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

February 2024

March 31, 2024

Alberta Environment and Protected Areas

11th Floor, Oxbridge Place
9820-106 Street
Edmonton Alberta T5K 2J6

Subject: **Peace Airshed Zone Association (PAZA)
February 2024 Ambient Air Quality Monitoring Report**

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of February 2024.

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

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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, Poplar-Portable and Milner.
Detailed Summaries are included in the report.

Calibration and Data Submission:

Monthly report, hourly data and calibration reports for February 2024 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:

- A total of 2, 1hr readings above the PM_{2.5} AAAQG (80 µg/m³) and 1, 24hr readings above the PM_{2.5} AAAQO (29 µg/m³) were recorded
- Two dust fall sites were above the AAAQG for industrial and residential limits
- 1hr readings above the PM_{2.5} AAAQG (80 µg/m³) as follows:

Site	Reference Number	Date	From MST	To MST	Average (µg/m ³)	WS km/hr	WD degrees
Dunes	425176	Feb 21, 2024	11:00	12:00	151.1	3.0	190
Fox Creek	424784	Feb 07, 2024	15:00	16:00	93.5	2.2	348

- 24-hr reading above the PM_{2.5} AAAQO (29 µg/m³) as follows:

Site	Reference Number	Date	Day average (µg/m ³)	WS km/hr	WD degrees
Fox Creek	424784	Feb 07, 2024	31.0	3.7	128

- The Pipeline site was greater than the industrial AAAQG 191.0 mg/100cm²/30day (AAAQG of 158 mg/100cm²/30day), reference #426287
- The Wanandie site was greater than the residential AAAQG 55.2 mg/100cm²/30day (AAAQG of 53 mg/100cm²/30day), reference #426285

Operational times less than 90 percent

Poplar CH₄/NMHC are not in operation.

All other instruments were in operation >90% during the month.

Air Incidents

None were reported.

Deviations from Authorized Monitoring Methods

None were reported.

Passive Monitoring

- 52 Stations throughout the PAZA zone
 - Passive sample analyses were performed by Bureau Veritas Laboratories

There were 20 duplicates sampled in the month of February:

- Eight SO₂ duplicates located at Bay Tree, Saddle Hills, Eaglesham, McLennan, Duvernay 1, Kakwa 1, Milner Pipeline, Jayar1 Plant
 - RPD ranging from 0% to 67% (one fail, Milner Pipeline readings were 0.1 and 0.2ppb)
- One O₃ duplicate located at Kinuso
 - RPD 2% (no fails)
- Seven NO₂ duplicates at Forth Creek, Spirit River, Wanham, Jean Cote, Kakwa 2, Milner Wanyandie, Jayar5 Camp
 - RPD ranging from 3% to 45% (no fail)
- Four H₂S duplicates at Duvernay 1, Girouxville 4, Kakwa 4, Jayar2 14-8
 - RPD 3% to 23% (no fail)

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall
- The site, Powerline where the duplicate was collected was inaccessible due to a train blocking the tracks at all crossings in January, as such the Powerline site and duplicate were collected after a two-month exposure. Results were divided by two to represent a 30 day exposure.
- Total dustfall ranged from 25.7 to 191.0 mg/100cm²/30day.
- The Pipeline site was greater than the industrial AAAQG 191.0 mg/100cm²/30day (AAAQG of 158 mg/100cm²/30day), reference #426287
- The Wanandie site was greater than the residential AAAQG 55.2 mg/100cm²/30day (AAAQG of 53 mg/100cm²/30day), reference #426285

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

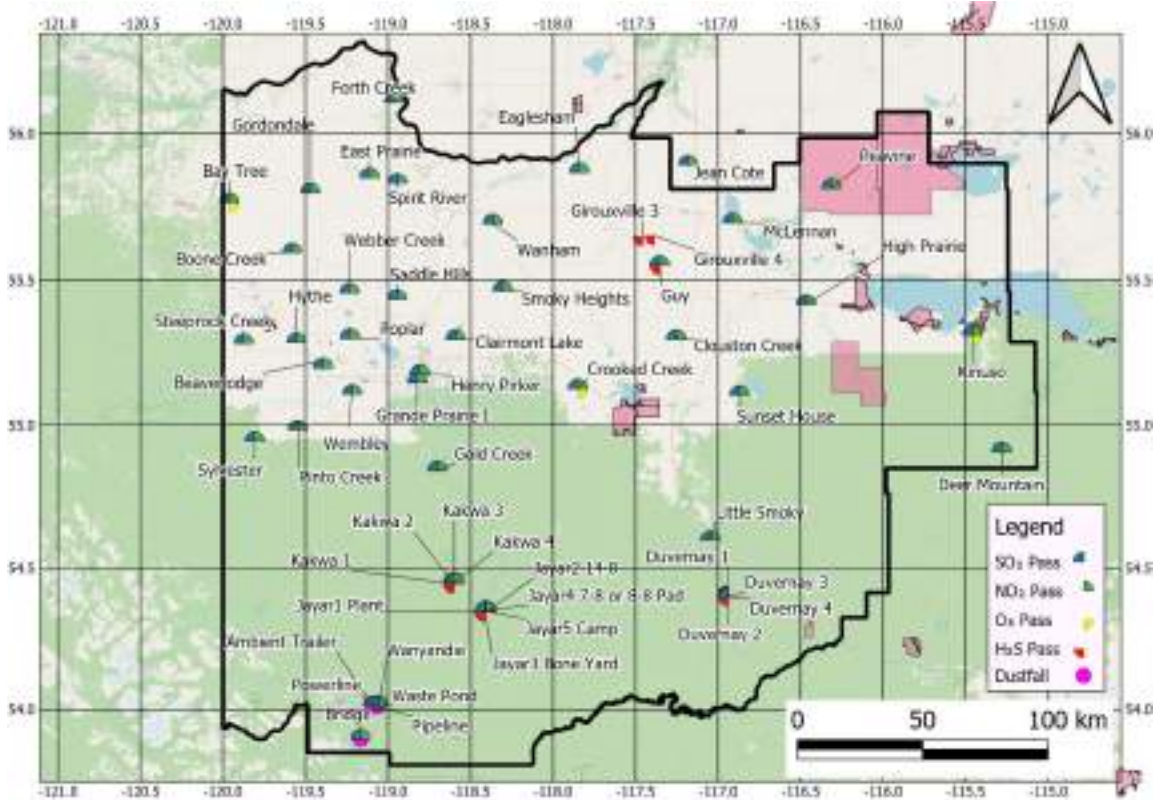
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PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 February 2024 Monthly Station Summaries

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

1.1 Beaverlodge Air Monitoring Station

PAZA - February 2024 Beaverlodge Station Report

Parameter	February				1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
SO ₂ (ppb)	1.9	0.0	94.3%	99.4%	62.7	-	Feb-28 11:00	14.8	-	Feb-01	-	-	-	-	Feb 06, 2024
NO _x (ppb)	7.5	0.4	94.3%	99.4%	30.2	150	Feb-28 11:00	19.0	-	Feb-01	0	-	-	-	Feb 06, 2024
NO ₂ (ppb)	3.4	0.4	94.3%	99.4%	31.0	-	Feb-28 11:00	33.7	-	Feb-01	-	-	-	-	Feb 06, 2024
O ₃ (ppb)	26.1	0.0	95.3%	100.0%	44.9	78	Feb-22 18:00	40.8	-	Feb-22	0	-	-	-	Feb 06, 2024
PM ₁₀ (µg/m ³)	4.5	0.2	99.7%	100.0%	17.0	80	Feb-08 10:00	9.1	20	Feb-07	0	-	0	-	Feb 07, 2024
SO ₂ (ppb)	1.0	0.0	95.1%	100.0%	15.4	172	Feb-15 19:00	3.8	48	Feb-15	0	-	0	0	Feb 07, 2024
Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	-5.5	-31.4	95.3%	95.3%	10.2	<div style="border: 1px solid black; padding: 5px;"> Note: Valid hours must be greater than 75% Operational hours must be greater than 90% </div>									
RH (%)	63.2	19.8	100.0%	100.0%	96.1										
WS (km/hr)	7.5	0.3	100.0%	100.0%	47.1	<div style="border: 1px solid black; padding: 5px;"> Average Wind Direction 302 WNW </div>									
WD (deg)	302	0.7	100.0%	100.0%	359.7										

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42K1	Feb 7, 4hrs removed due to maintenance
O ₃	Thermo	49K1	No Operational issues noted
PM ₁₀	API	T640	No Operational issues noted
SO ₂	Thermo	43i-TLE	No operational issues noted
Met Equip	MetOne	50.5	For ET, daily drop starting Aug 9, removed every day 04:01-04:45 (28hrs); Feb 7 extreme data shifts (4hrs removed)

1.2 Dunes Air Monitoring Station

PAZA - February 2024 Dunes Station Report

Parameter	February				1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
PM ₁₀ (µg/m ³)	5.1	0.1	94.3%	94.5%	151.1	80	Feb-21 11:00	15.3	25	Feb-21	1	-	0	-	Feb-15-2024
SO ₂ (ppb)	3.0	0.0	91.2%	96.0%	82.7	172	Feb-08 17:00	5.5	48	Feb-08	0	-	0	0	Feb-15-2024
TRS (ppb)	0.4	0.0	91.4%	96.0%	1.9	-	Feb-04 17:00	0.7	-	Feb-02	-	-	-	-	Feb-15-2024
Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	-7.7	-33.0	96.0%	96.0%	8.7	<div style="border: 1px solid black; padding: 5px;"> Note: Valid hours must be greater than 75% Operational hours must be greater than 90% </div>									
RH (%)	67.4	17.0	96.0%	96.0%	97.8										
WS (km/hr)	2.8	0.0	96.0%	96.0%	16.3	<div style="border: 1px solid black; padding: 5px;"> Average Wind Direction 322 NW </div>									
WD (deg)	322	0.5	96.0%	96.0%	359.6										

Update Summary:

Parameter	Make	Model	Equipment summary
PM ₁₀	Thermo	SHARP 5010	Data communication loss between Feb 22-23 (28hrs); Feb 2 data removed due to filter tape and pump shutdown (10hrs removed); on Feb 21, 1hr reading above the AAAGS
SO ₂	Thermo	43i	Data communication loss between Feb 22-23 (28hrs removed)
TRS	Thermo	43i	Data communication loss between Feb 22-23 (28hrs removed)
Met Equip	GI/RMYoung	MetPak/RMY8004	Data communication loss between Feb 22-23 (28hrs removed)

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - February 2024 Henry Pirker Station Report

Parameter	February				1-hour			8-hour / 24-hour			Exceedance				Calibration Date	
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d		
NO (ppb)	12.8	0.0	94.1%	95.1%	138.7	-	Feb-02 10:00	57.7	-	Feb-02	-	-	-	-	Feb 06, 2024	
NO ₂ (ppb)	16.1	1.4	94.1%	95.1%	48.3	159	Feb-12 09:00	25.3	-	Feb-16	0	-	-	-	Feb 06, 2024	
NO _x (ppb)	28.9	1.5	94.1%	95.1%	167.1	-	Feb-02 10:00	81.3	-	Feb-02	-	-	-	-	Feb 06, 2024	
O ₃ (ppb)	18.0	0.0	94.4%	95.1%	44.0	76	Feb-18 13:00	38.1	-	Feb-23	0	-	-	-	Feb 06, 2024	
PM _{2.5} (µg/m ³)	9.8	0.5	93.7%	100.0%	45.2	80	Feb-15 22:00	22.9	25	Feb-02	0	-	0	-	Feb 02, 2024	
SO ₂ (ppb)	0.8	0.0	94.4%	95.1%	22.2	172	Feb-08 18:00	3.4	48	Feb-08	0	-	0	0	Feb 02, 2024	
H ₂ S (ppb)	0.3	0.0	94.4%	95.1%	1.5	30	Feb-02 10:00	0.8	3	Feb-19	0	-	0	-	Feb 02, 2024	
CH ₄ (ppm)	2.8	2.0	94.3%	99.0%	4.3	-	Feb-10 05:00	2.9	-	Feb-02	-	-	-	-	Feb 05, 2024	
THC (ppm)	2.3	2.0	94.3%	95.0%	4.3	-	Feb-10 05:00	3.0	-	Feb-02	-	-	-	-	Feb 05, 2024	
NMHC (ppm)	0.02	0.0	94.3%	99.0%	0.7	-	Feb-18 20:00	0.1	-	Feb-21	-	-	-	-	Feb 05, 2024	
CO (ppm)	0.3	0.1	94.4%	95.1%	1.0	13	Feb-12 09:00	0.6	5	Feb-02	0	0	-	-	Feb 05, 2024	
Average	Minimum	Valid	Operational	Maximum												
Temp (°C)	-8.6	-30.5	100.0%	100.0%	10.8	<div style="border: 1px solid black; padding: 5px;"> <p>Note: Valid hours must be greater than 75%</p> <p>Operational hours must be greater than 50%</p> </div>										
RH (%)	82.8	23.8	100.0%	100.0%	84.5											
SR (W/m ²)	51.5	0.0	100.0%	100.0%	343.1											
WS (km/hr)	4.9	0.1	100.0%	100.0%	26.9											
WD (deg)	293	1.5	100.0%	100.0%	357.5											
Average Wind Direction		291		WNW												

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	Feb 25 manifold flow was lost (6hrs removed)
O ₃	TECO	49i	Feb 25 manifold flow was lost (6hrs removed)
PM _{2.5}	API	TE40	No operational issues
SO ₂	Thermo	43i-TLE	Feb 25 manifold flow was lost (6hrs removed)
H ₂ S	TEI	45Di	Feb 25 manifold flow was lost (6hrs removed)
THC/CH ₄ /NMHC	TEI	55i	Feb 26 signal dropped (3hr removed); Feb 29 manifold flow was lost (2hrs removed)
CO	Thermo	48i-TLE	Feb 25 manifold flow was lost (6hrs removed)
Met Equip	MetDew	50.5	No operational issues

1.4 Smoky Heights Air Monitoring Station

PAZA - February 2024 Smoky Heights Station Report

Parameter	February				1-hour			24-hour			Exceedance				Calibration Date											
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d												
PM _{2.5} (µg/m ³)	4.2	0.0	93.7%	100.0%	17.8	80	Feb-04 10:00	8.9	25	Feb-02	0	-	0	-	Feb 02, 2024											
SO ₂ (ppb)	0.5	0.0	95.3%	100.0%	13.7	172	Feb-16 19:00	1.9	48	Feb-16	0	-	0	0	Feb 02, 2024											
TRS (ppb)	0.5	0.0	95.3%	100.0%	2.3	-	Feb-03 02:00	0.5	-	Feb-20	-	-	-	-	Feb 02, 2024											
Average	Minimum	Valid	Operational	Maximum																						
Temp (°C)	-7.6	-30.9	100.0%	100.0%	8.0	<div style="border: 1px solid black; padding: 5px;"> <p>Note: Valid hours must be greater than 75%</p> <p>Operational hours must be greater than 50%</p> </div>																				
WS (km/hr)	9.8	0.5	100.0%	100.0%	43.0																					
WD (deg)	288	0.8	100.0%	100.0%	350.8																					
Average Wind Direction		290		WNW																						

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	No Operational issues noted during the month
SO ₂	TECO	43i	No Operational issues noted during the month
TRS	TEI	43i-APSAA	No Operational issues noted during the month
Met Equip	MetOne	50.5	No Operational issues noted during the month

1.5 Valleyview Air Monitoring Station

PAZA - February 2024 Valleyview Station Report

Parameter	February				1-hour			24-hour			Exceedance				Calibration Date	
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d		
SO ₂ (ppb)	0.2	0.0	95.3%	100.0%	1.9	172	Feb-08 14:00	0.6	48	Feb-29	0	-	0	0	Feb 01, 2024	
H ₂ S (ppb)	0.1	0.0	95.3%	100.0%	0.8	10	Feb-28 17:00	0.8	3	Feb-08	0	-	0	-	Feb 01, 2024	
	Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	-7.3	-31.8	100.0%	100.0%	11.1	<div style="border: 1px solid black; padding: 5px;"> <p>Note: Valid hours must be greater than 75%</p> <p>Operational hours must be greater than 50%</p> </div>										
RH (%)	74.0	23.8	100.0%	100.0%	99.2											
WS (km/hr)	3.2	0.1	100.0%	100.0%	16.0											
WD (deg)	270	0.5	100.0%	100.0%	259.8											
							Average Wind Direction		270		NW					

Update Summary:

Parameter	Make	Model	Equipment summary
SO ₂	TEI	43-APSC8	No Operational issues noted
H ₂ S	TEI	450-APHAM / 43C	No Operational issues noted
Mst Equip	RMYoung	RMN95004	No Operational issues noted

1.6 Fox Creek Air Monitoring Station

PAZA - February 2024 Fox Creek Station Report

Parameter	February				1-hour			8-hour / 24-hour			Exceedance				Calibration Date	
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d		
NO (ppb)	12.3	0.0	95.1%	100.0%	93.0	-	Feb-21 07:00	34.3	-	Feb-02	-	-	-	-	Feb 26, 2024	
NO ₂ (ppb)	12.0	0.5	95.1%	100.0%	57.8	150	Feb-17 00:00	20.7	-	Feb-10	0	-	-	-	Feb 26, 2024	
NO _x (ppb)	24.5	0.6	95.1%	100.0%	125.3	-	Feb-21 07:00	49.7	-	Feb-02	-	-	-	-	Feb 26, 2024	
O ₃ (ppb)	20.2	0.0	95.4%	100.0%	45.4	78	Feb-22 17:00	35.4	-	Feb-26	0	-	-	-	Feb 26, 2024	
PM _{2.5} (µg/m ³)	6.5	0.3	99.9%	100.0%	93.3	80	Feb-07 15:00	31.0	25	Feb-07	1	-	1	-	Feb 21, 2024	
SO ₂ (ppb)	0.5	0.0	95.3%	100.0%	6.7	172	Feb-17 11:00	1.7	48	Feb-17	0	-	0	0	Feb 21, 2024	
H ₂ S (ppb)	0.3	0.0	95.3%	100.0%	0.8	10	Feb-19 07:00	0.4	3	Feb-19	0	-	0	-	Feb 21, 2024	
	Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	-5.8	-27.9	100.0%	100.0%	12.1	<div style="border: 1px solid black; padding: 5px;"> <p>Note: Valid hours must be greater than 75%</p> <p>Operational hours must be greater than 50%</p> </div>										
WS (km/hr)	4.9	0.2	100.0%	100.0%	19.2											
WD (deg)	182	1.1	100.0%	100.0%	391.0											
																Average Wind Direction

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42IQ	No operational issues
O ₃	TECO	49I	No operational issues
PM _{2.5}	API	T640	No operational issues; 1x 1hr readings above AAQO and 1x 24hr above AAQO
SO ₂	TEI	43-TLE	No operational issues
H ₂ S	TEI	45DI	No operational issues
Mst Equip	MstDms	55.5	No operational issues

1.7 Poplar Air Monitoring Station

PAZA - February 2024 Poplar Station Report

Parameter	February				1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	2.0	0.0	95.0%	100.0%	35.7	-	Feb-02 19:00	14.0	-	Feb-02	-	-	-	-	Feb 14, 2024
NO ₂ (ppb)	7.4	0.4	95.0%	100.0%	27.0	150	Feb-02 19:00	15.8	-	Feb-02	0	-	-	-	Feb 14, 2024
NO _x (ppb)	9.5	0.4	95.0%	100.0%	63.1	-	Feb-02 19:00	30.1	-	Feb-02	-	-	-	-	Feb 14, 2024
O ₃ (ppb)	25.4	0.0	95.3%	100.0%	43.6	76	Feb-24 10:00	39.9	-	Feb-25	0	-	-	-	Feb 14, 2024
PM _{2.5} (µg/m ³)	4.6	0.5	99.9%	100.0%	24.5	80	Feb-02 19:00	12.8	29	Feb-02	0	-	0	-	Feb 15, 2024
SO ₂ (ppb)	3.2	0.0	95.3%	100.0%	32.3	172	Feb-19 19:00	3.5	48	Feb-15	0	-	0	0	Feb 14, 2024
TRS (ppb)	0.8	0.2	95.3%	100.0%	17.2	-	Feb-21 11:00	1.7	-	Feb-21	-	-	-	-	Feb 15, 2024
CH ₄ (ppm)	removed Dec 12, 2022														
THC (ppm)	2.4	1.9	95.3%	100.0%	3.6	-	Feb-02 10:00	3.2	-	Feb-02	-	-	-	-	Feb 15, 2024
MAHC (ppm)	removed Dec 12, 2022														
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	-7.8	-9.8	100.0%	100.0%	9.3										
WS (m/s/hr)	10.3	0.3	100.0%	100.0%	47.5										
WD (deg)	301	0.1	100.0%	100.0%	393.0										

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

Average Wind Direction: 301 WNW

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	TEI	421	No issues noted
O ₃	TEI	491	No issues noted
PM _{2.5}	API	T640	No issues noted
SO ₂	TEI	431	No issues noted
TRS	TEI	431	No issues noted
THC	TEI	551 / 511-LT	No issues noted
Met Equip	MetOne	50.5	No issues noted

1.8 Milner Air Monitoring Station

PAZA - February 2024 Milner Station Report

Parameter	February				1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	3.4	0.0	94.8%	99.9%	37.0	-	Feb-28 13:00	9.0	-	Feb-28	-	-	-	-	Feb 22, 2024
NO ₂ (ppb)	3.5	0.0	94.8%	99.9%	27.0	150	Feb-29 08:00	15.3	-	Feb-28	0	-	-	-	Feb 22, 2024
NO _x (ppb)	6.9	0.0	94.8%	99.9%	62.8	-	Feb-28 13:00	22.4	-	Feb-28	-	-	-	-	Feb 22, 2024
PM _{2.5} (µg/m ³)	4.5	0.3	99.3%	100.0%	22.8	80	Feb-01 04:00	12.1	29	Feb-16	0	-	0	-	Feb 22, 2024
	Average	Minimum	Valid	Operational	Maximum										
WS (m/s/hr)	6.5	0.0	100.0%	100.0%	32.0										
WD (deg)	286	3.2	100.0%	100.0%	357.9										

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

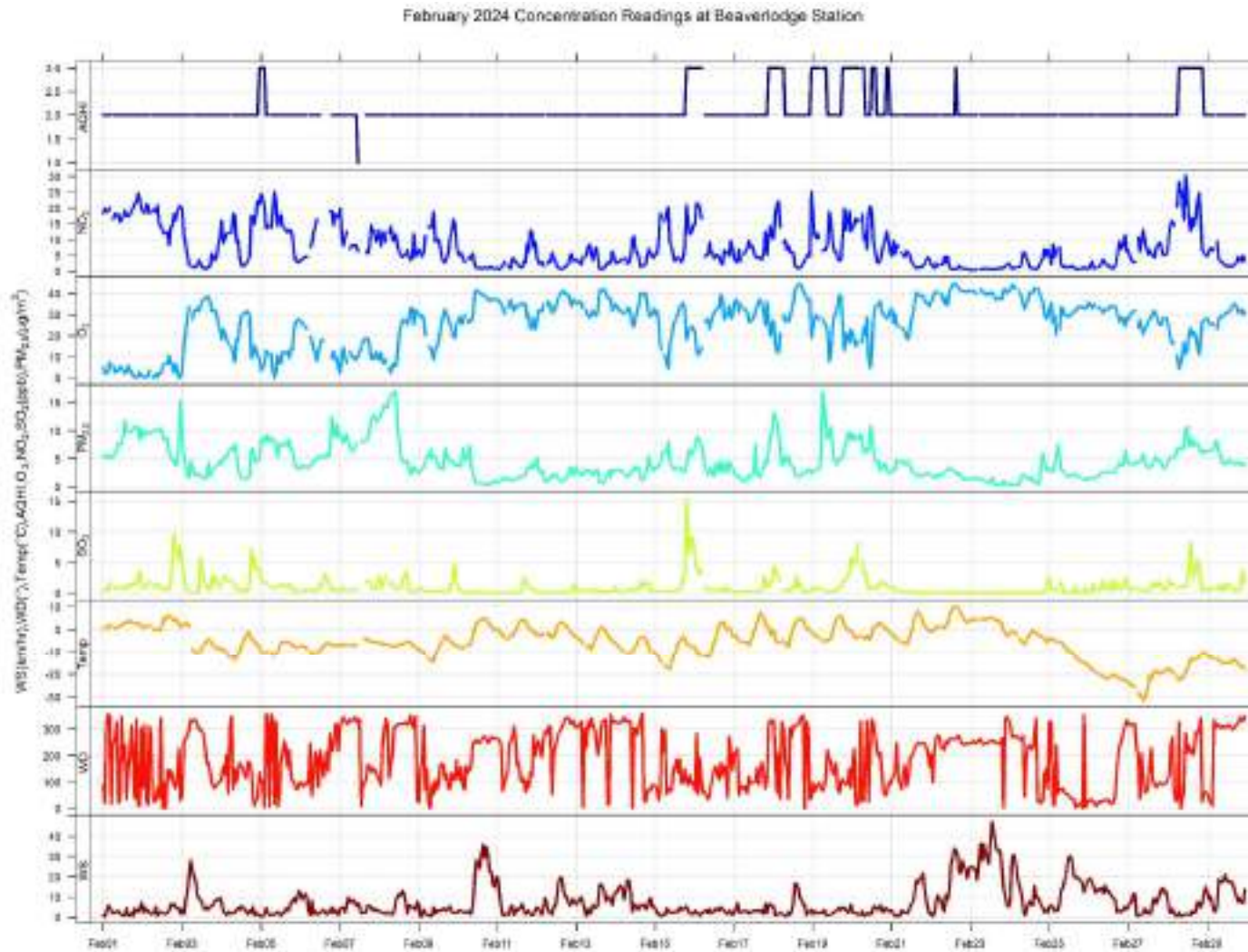
Average Wind Direction: 286 W

Update Summary:

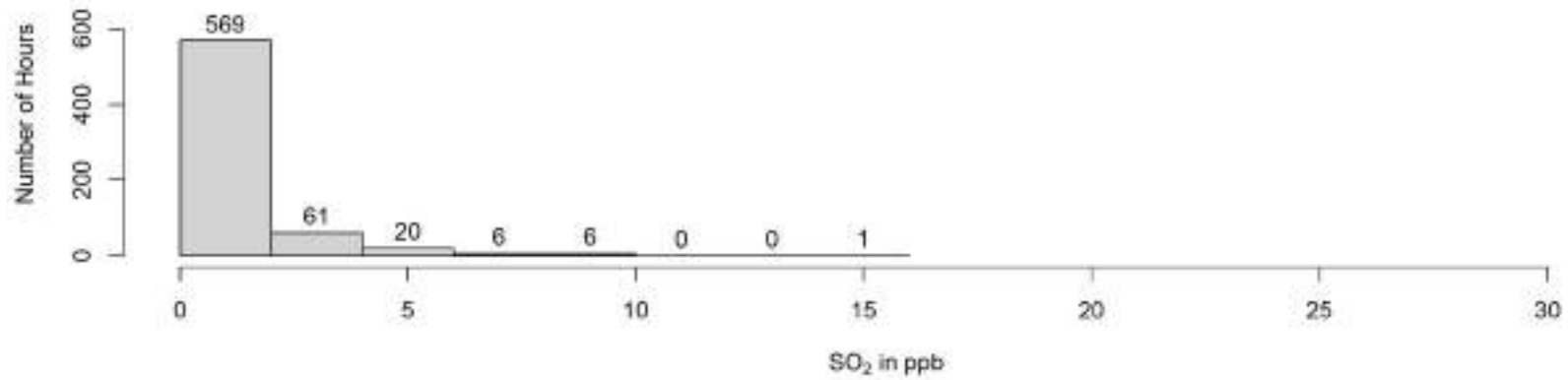
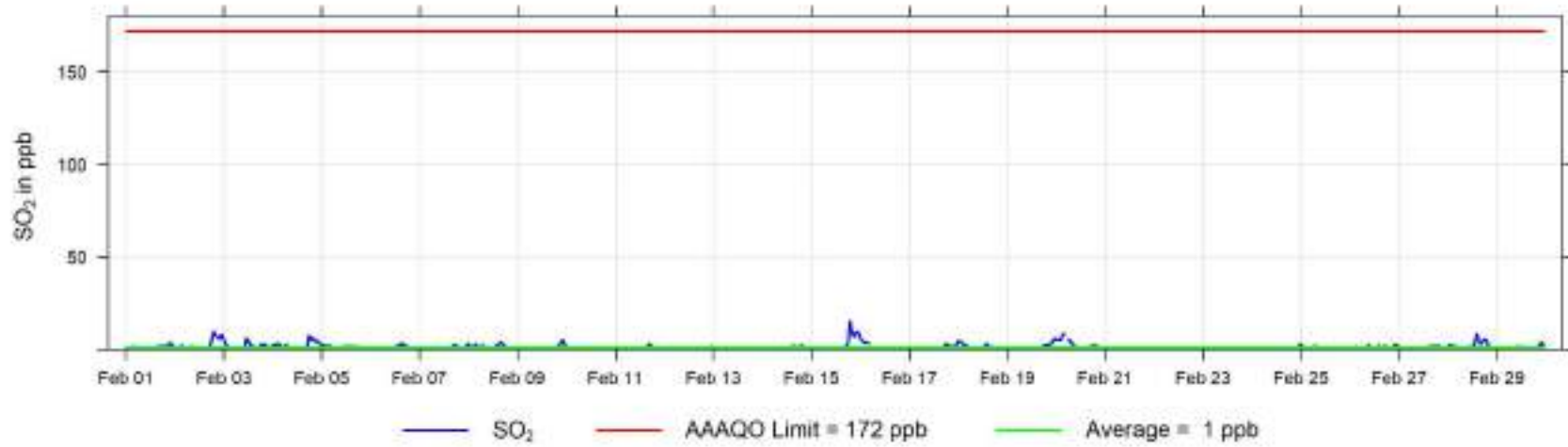
Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	421	Unrotable zero reading on Feb 25 (3hr reseed)
PM _{2.5}	API	T640	No Operational issues noted
Met Equip	MetOne	50.5	No Operational issues noted

2 Beaverlodge Charts

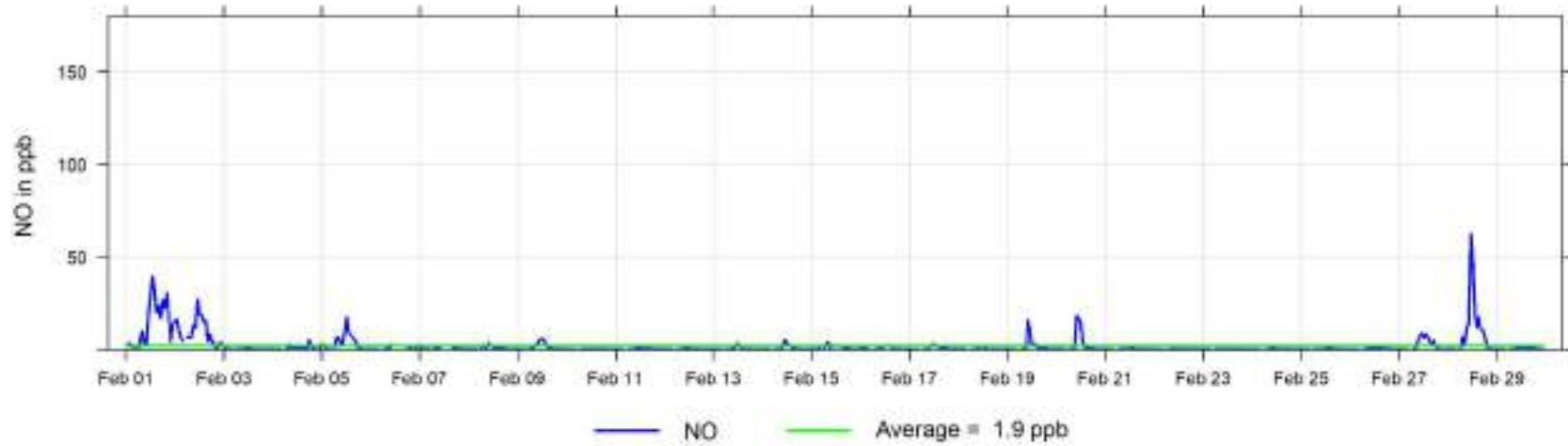
The following pages include the charts and histograms for Beaverlodge Station



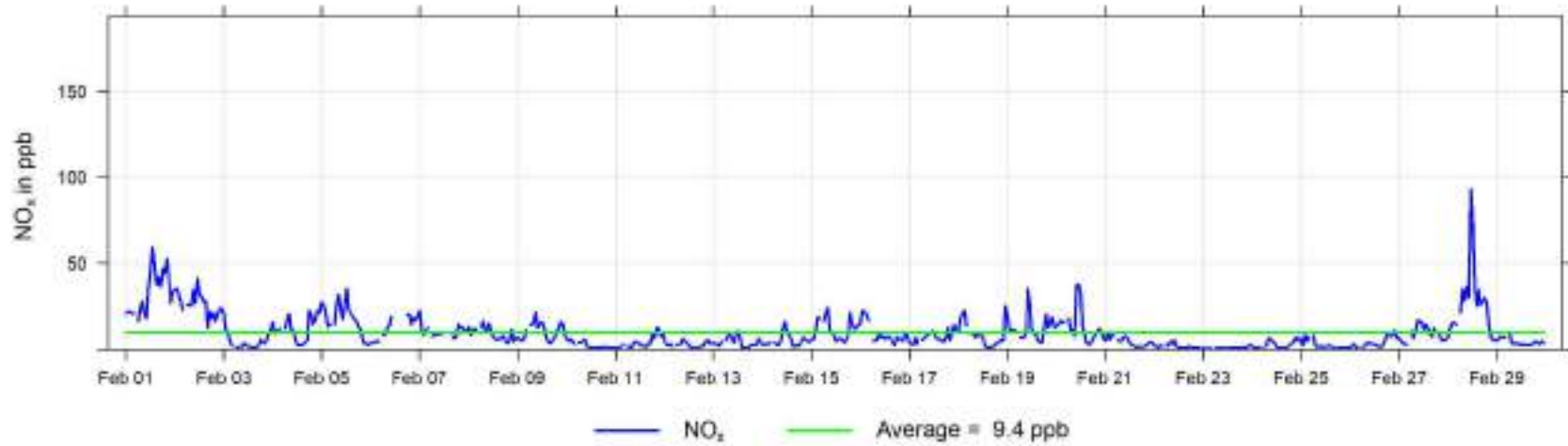
February 2024 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



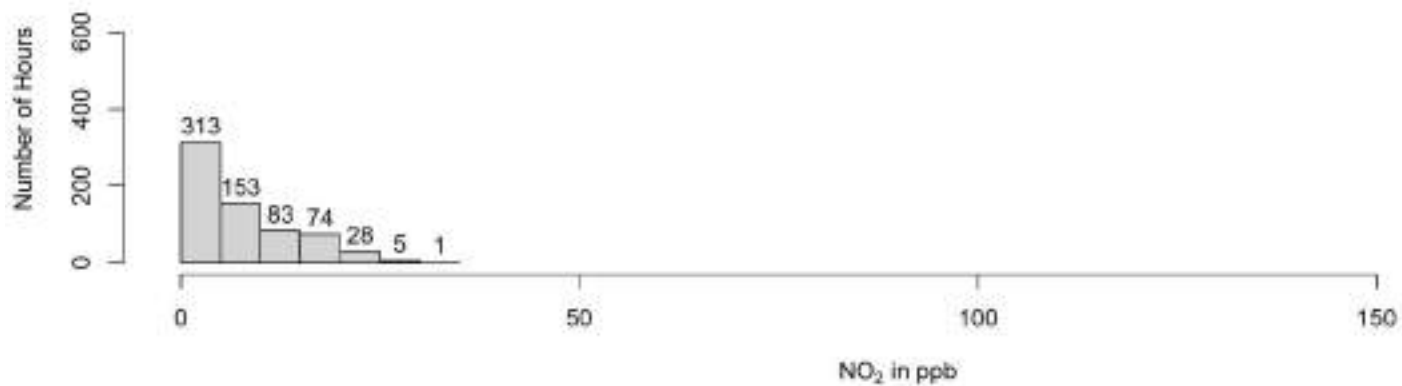
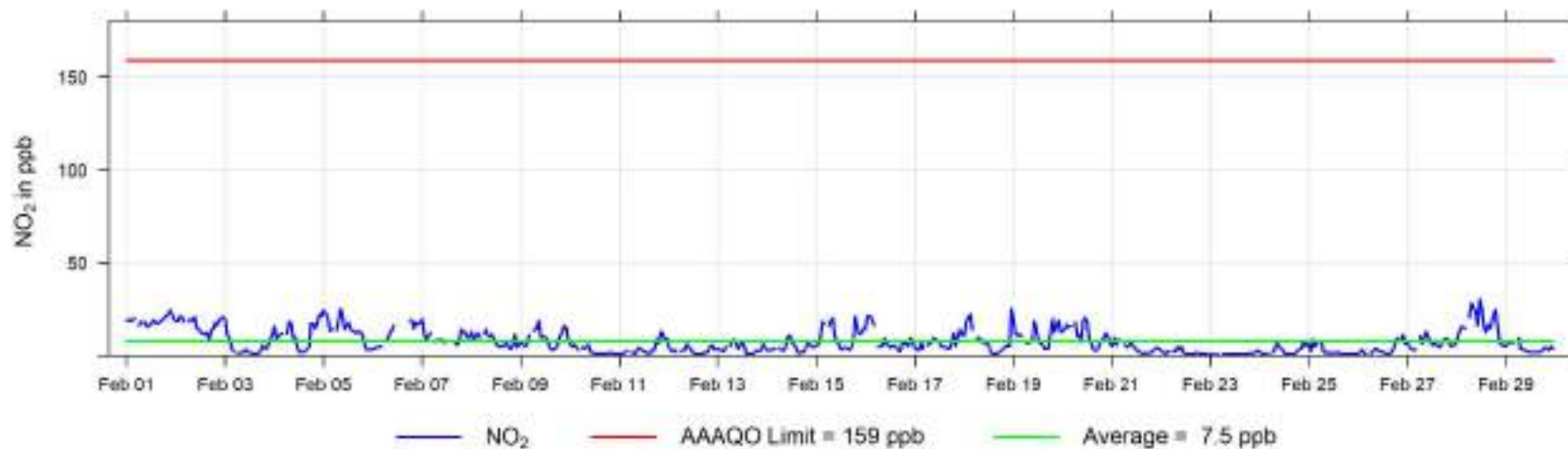
February 2024 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



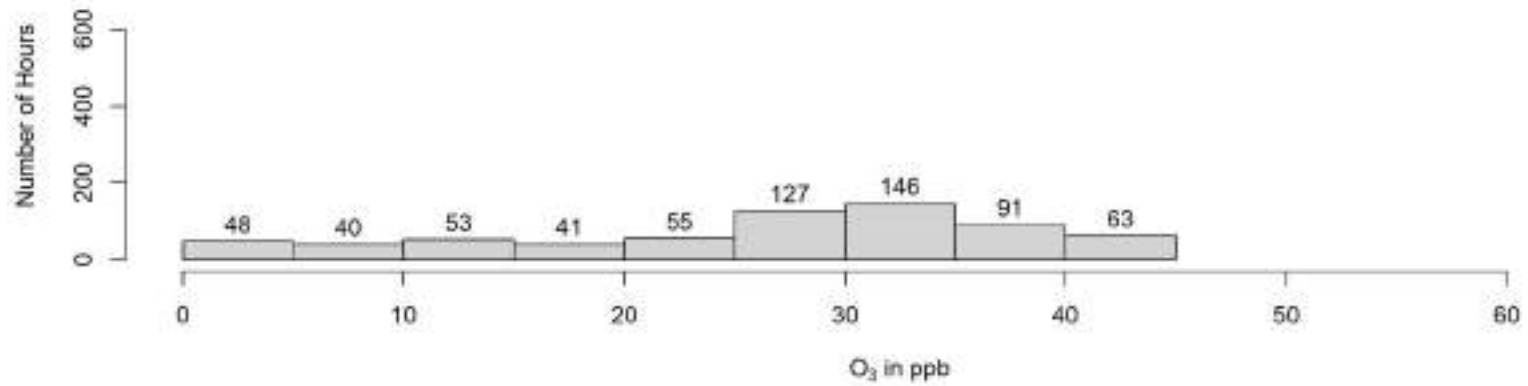
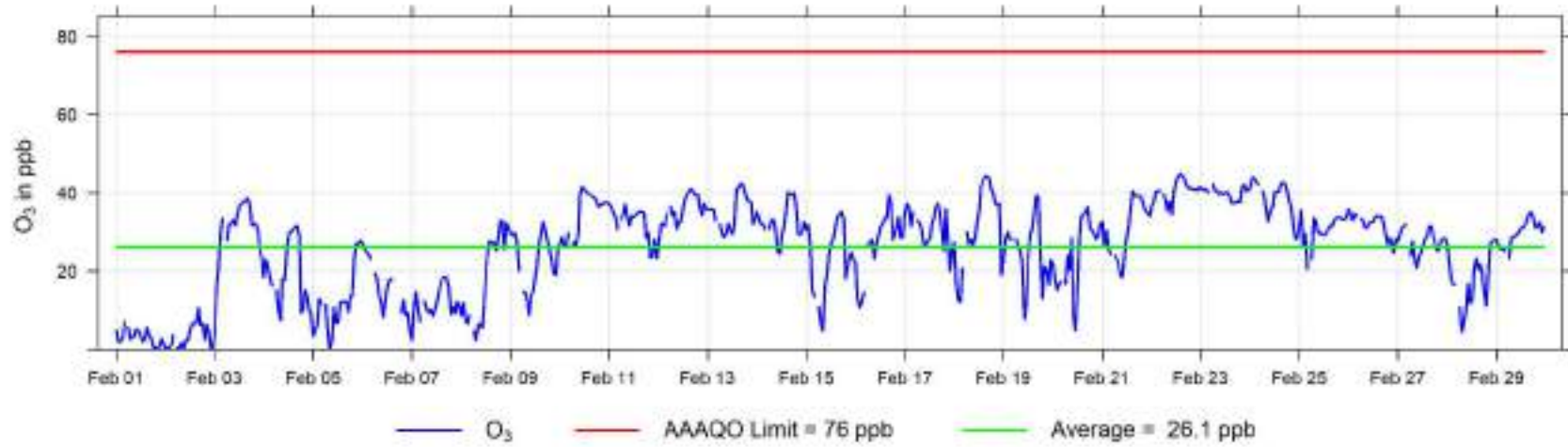
February 2024 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



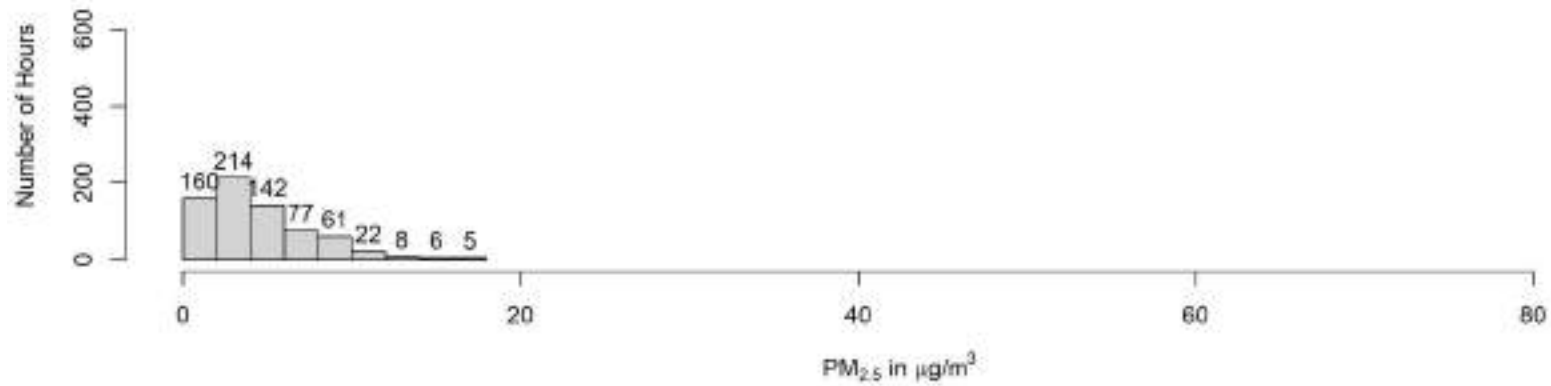
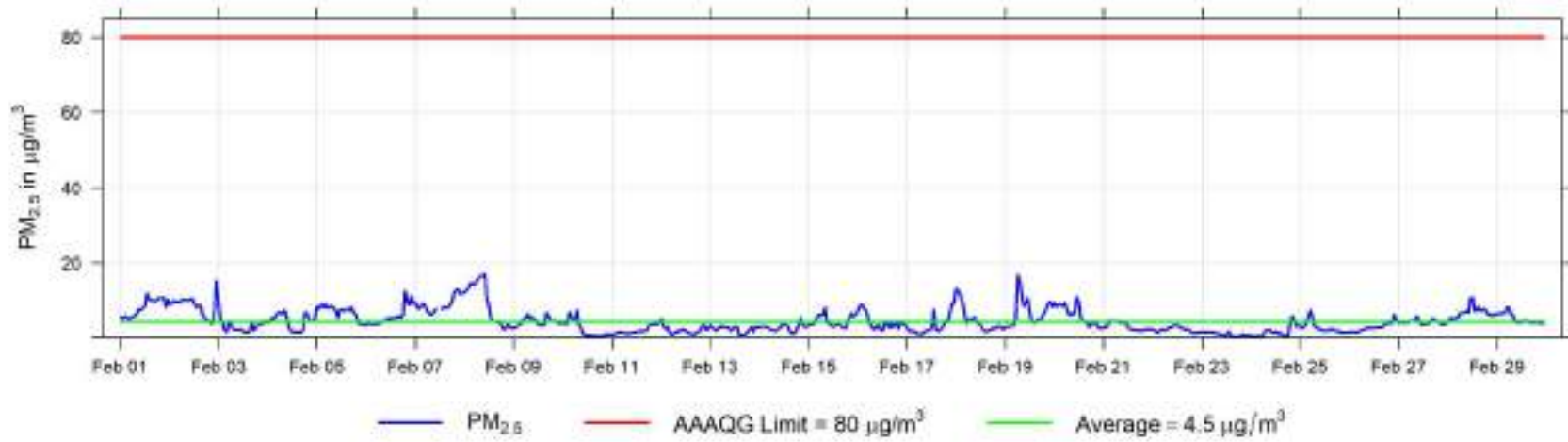
February 2024 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



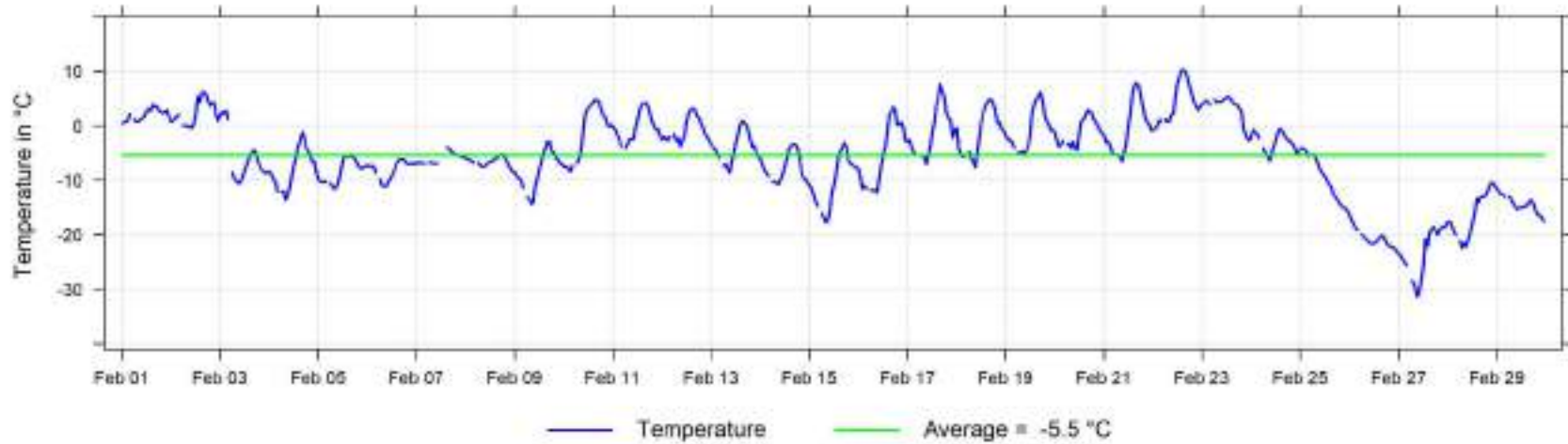
February 2024 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



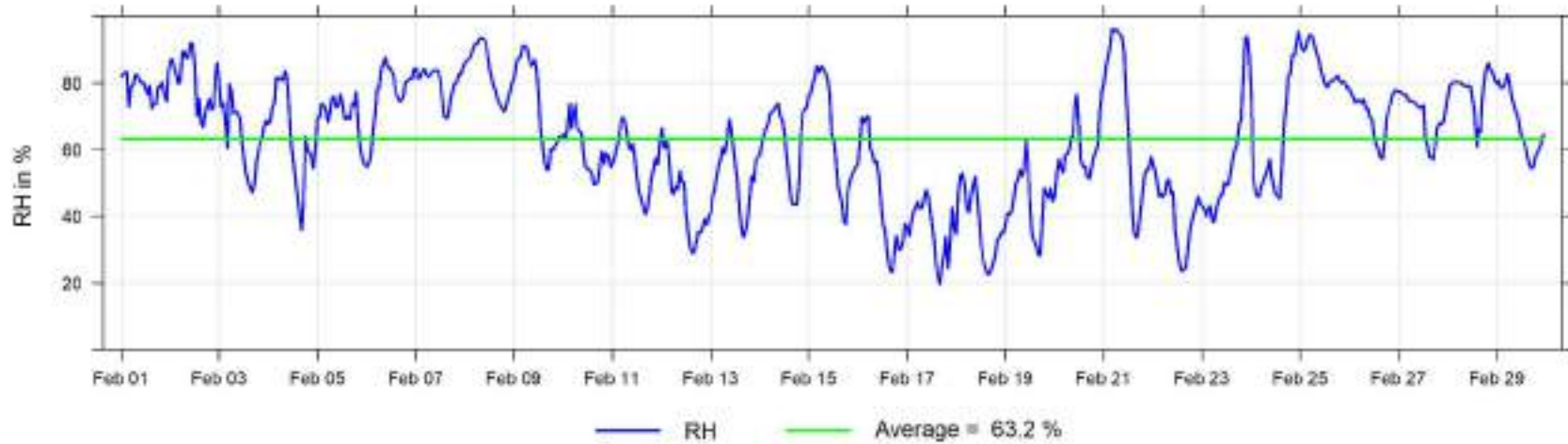
February 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Beaverlodge



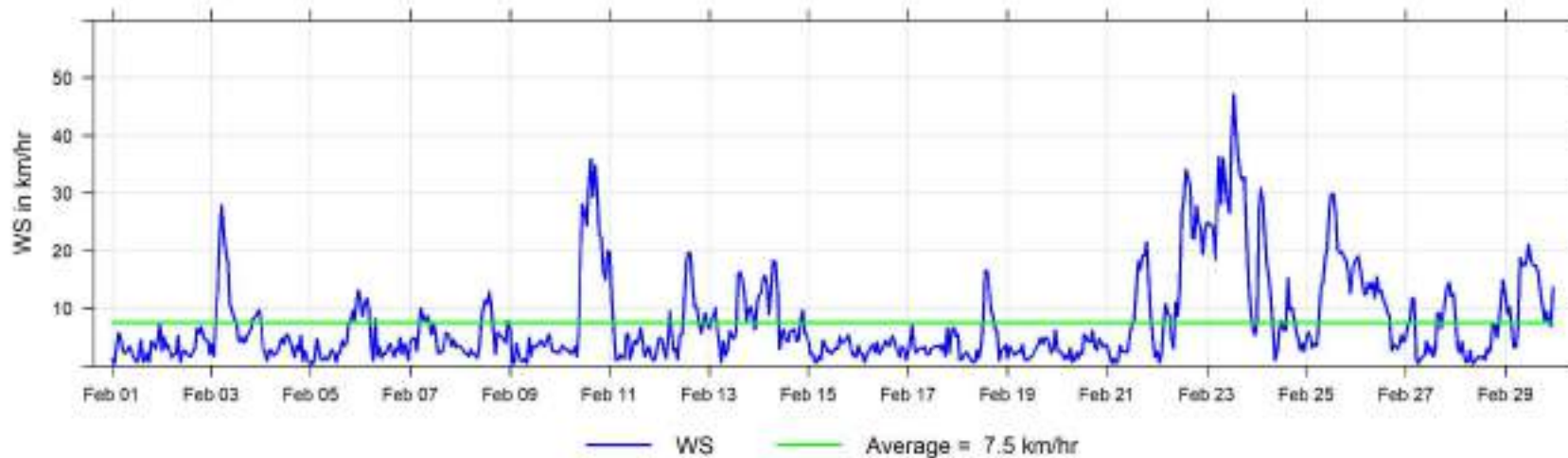
February 2024 Hourly Temperature Readings (in °C) at Beaverlodge



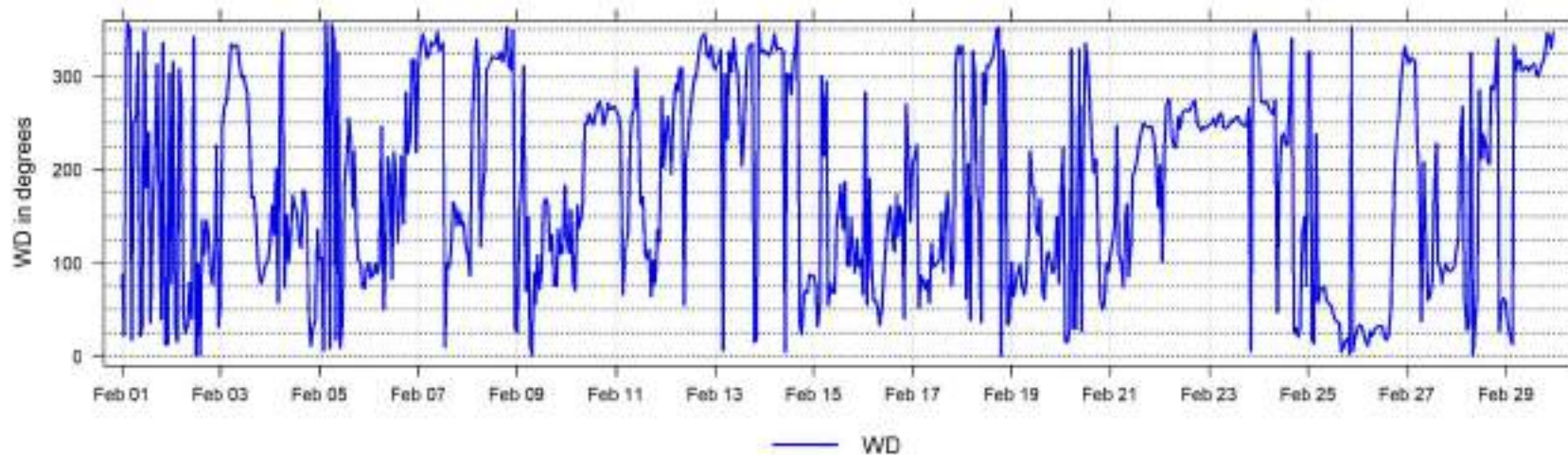
February 2024 Hourly Readings of Relative Humidity (in %) at Beaverlodge



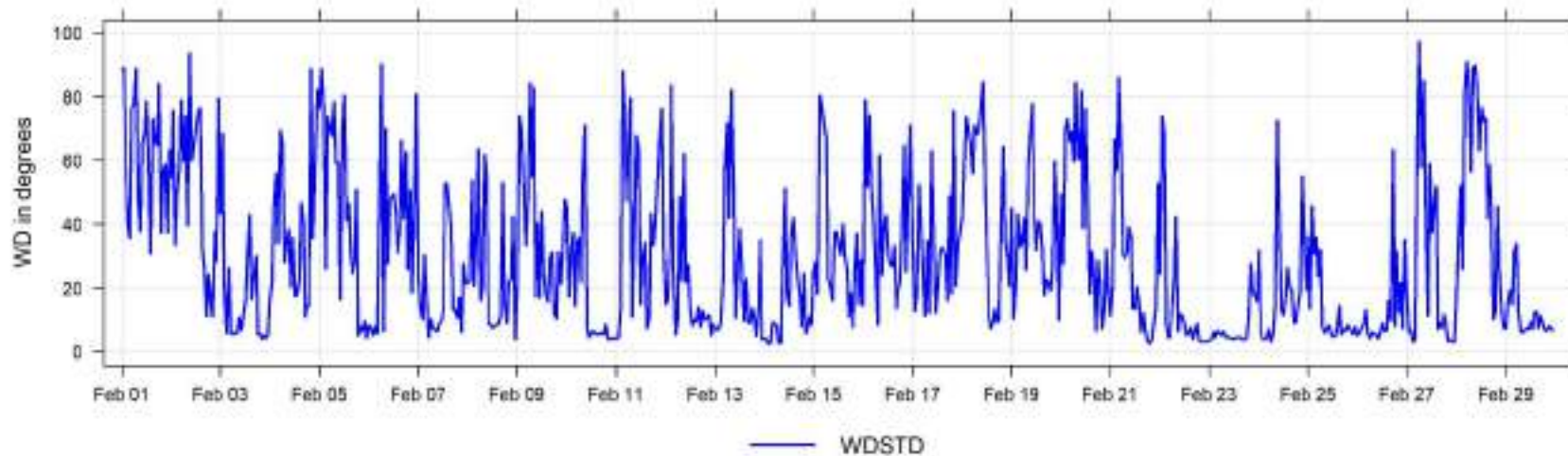
February 2024 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge

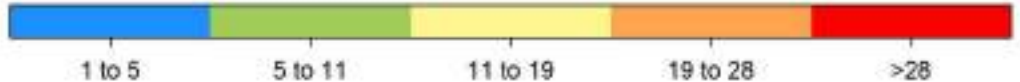
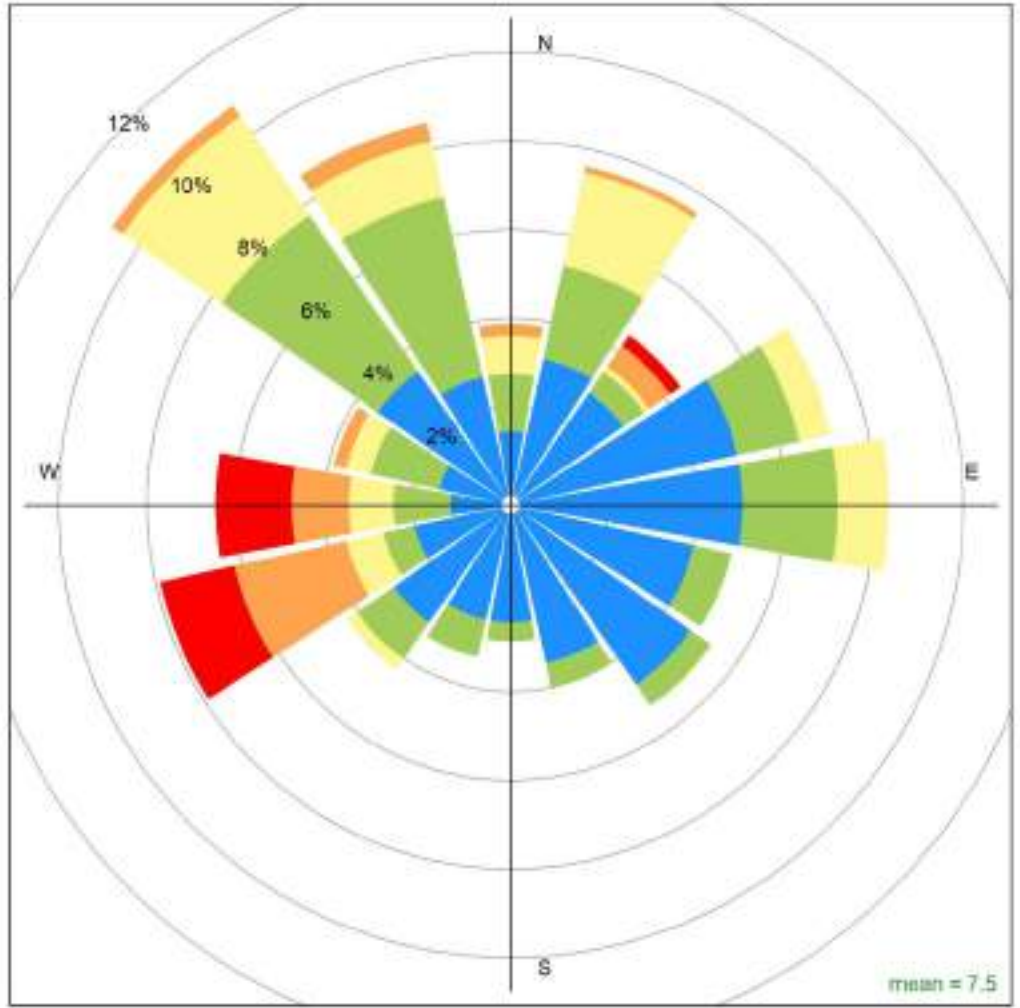


February 2024 Hourly Readings of Wind Direction (in degrees) at Beaverlodge



February 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Beaverlodge

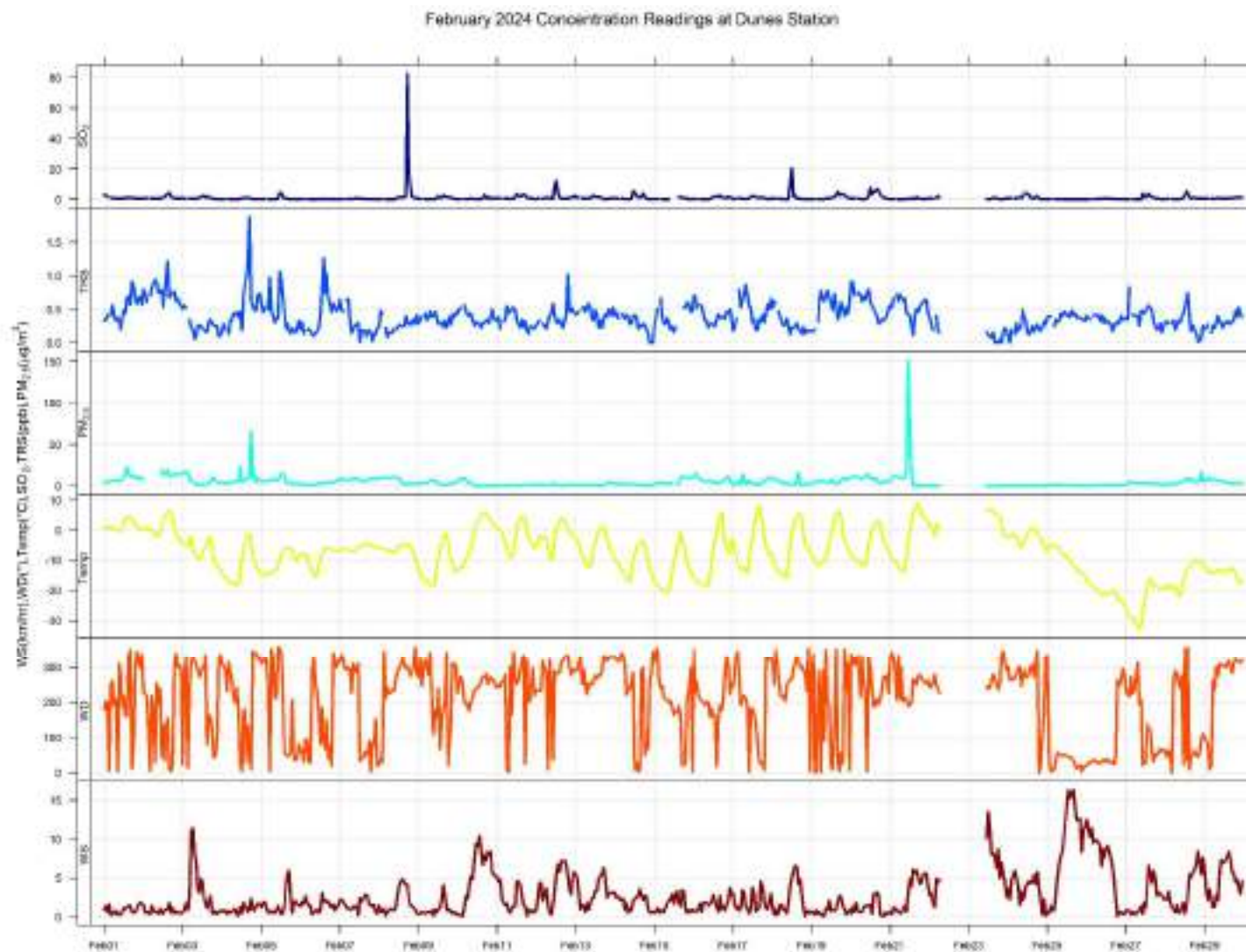




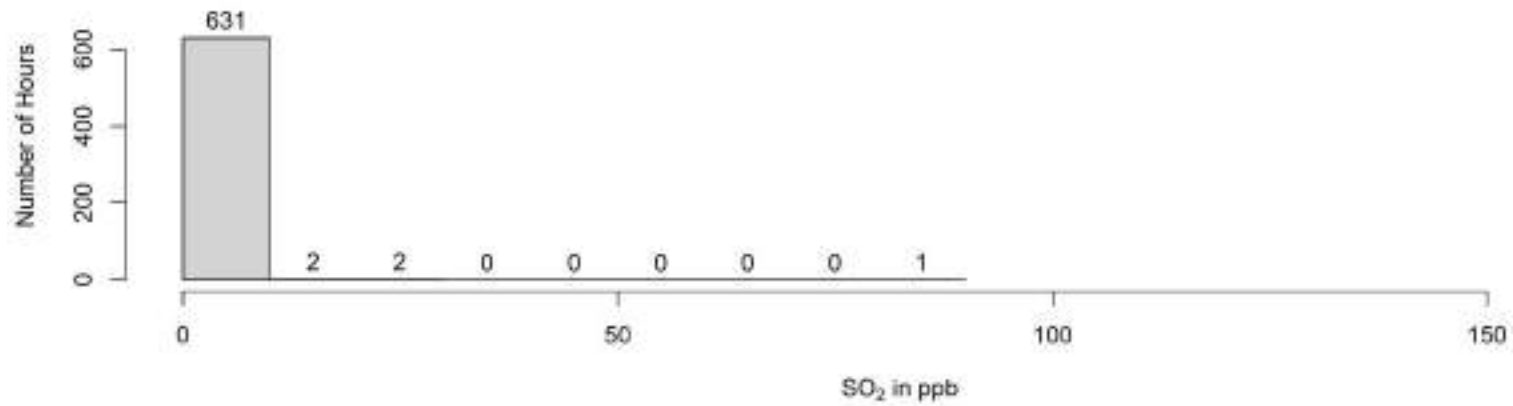
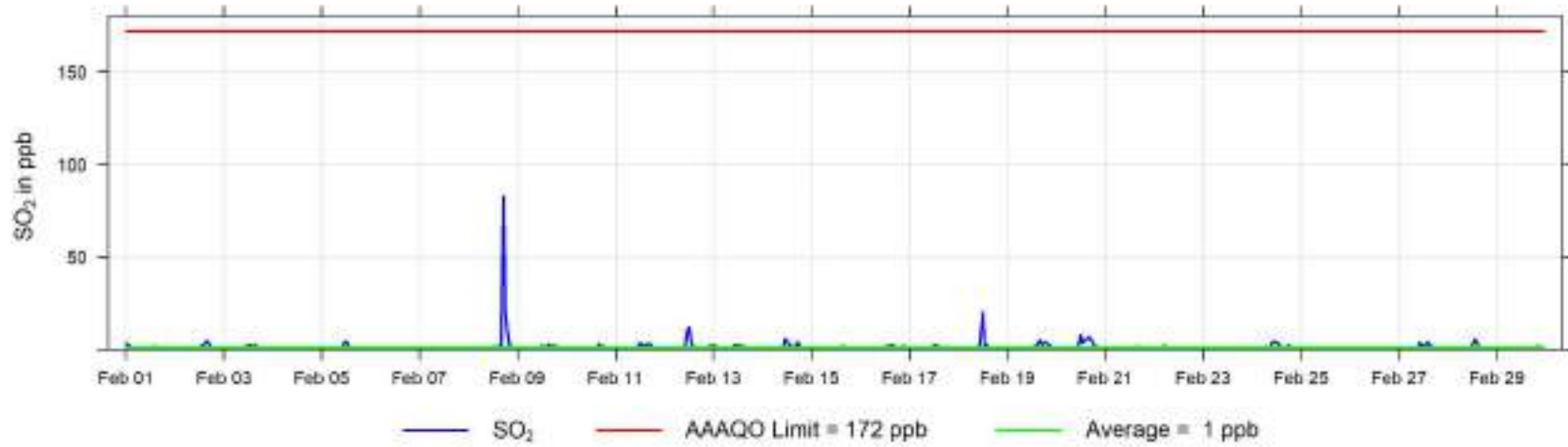
Beaverlodge February 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 6.3 %

3 Dunes Charts

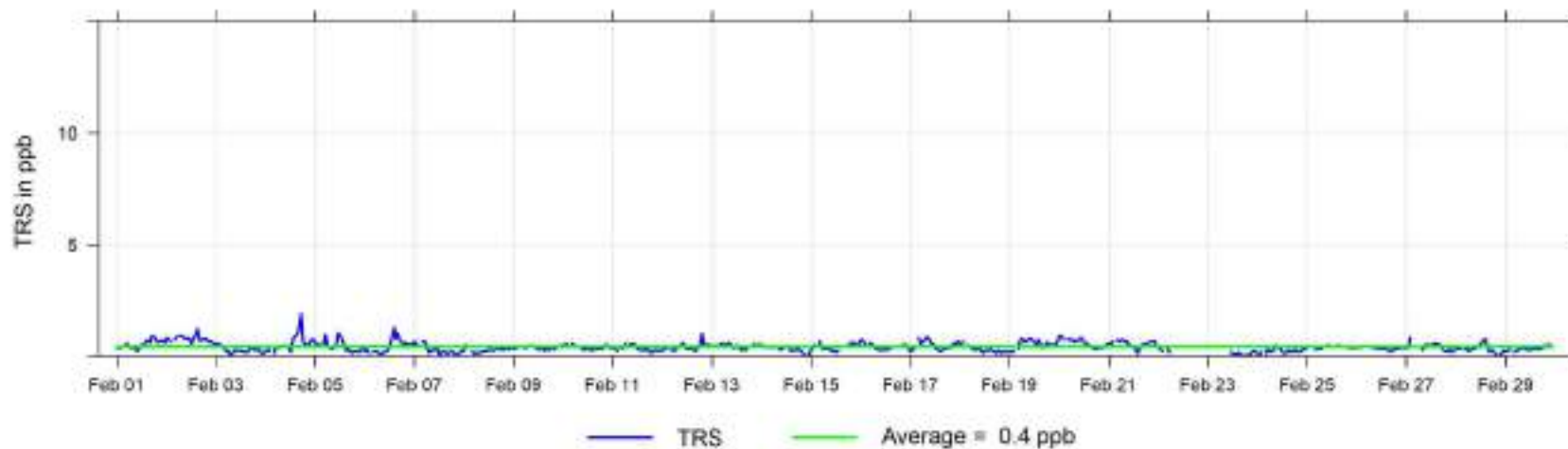
The following pages include the charts and histograms for Dunes Station



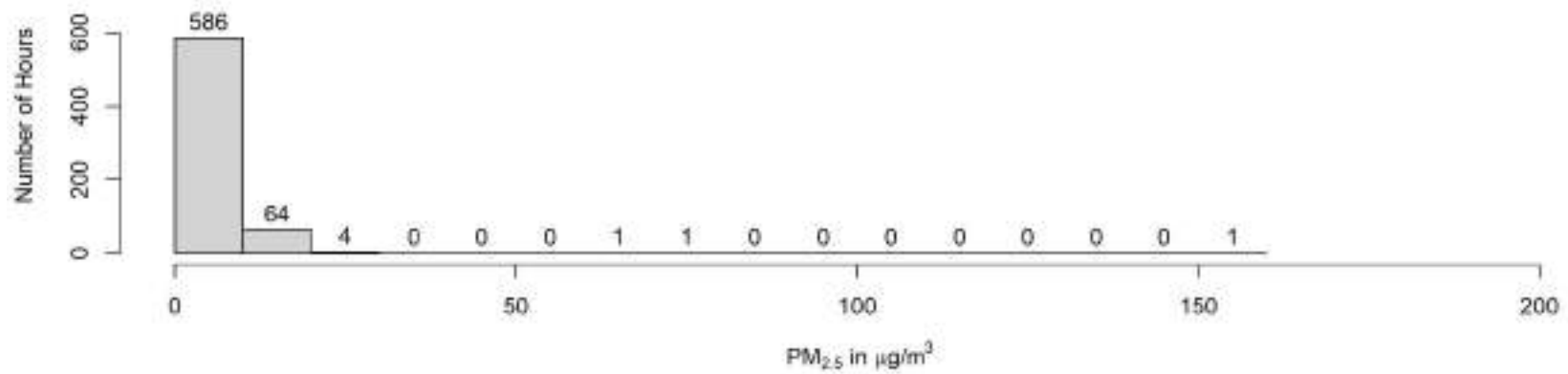
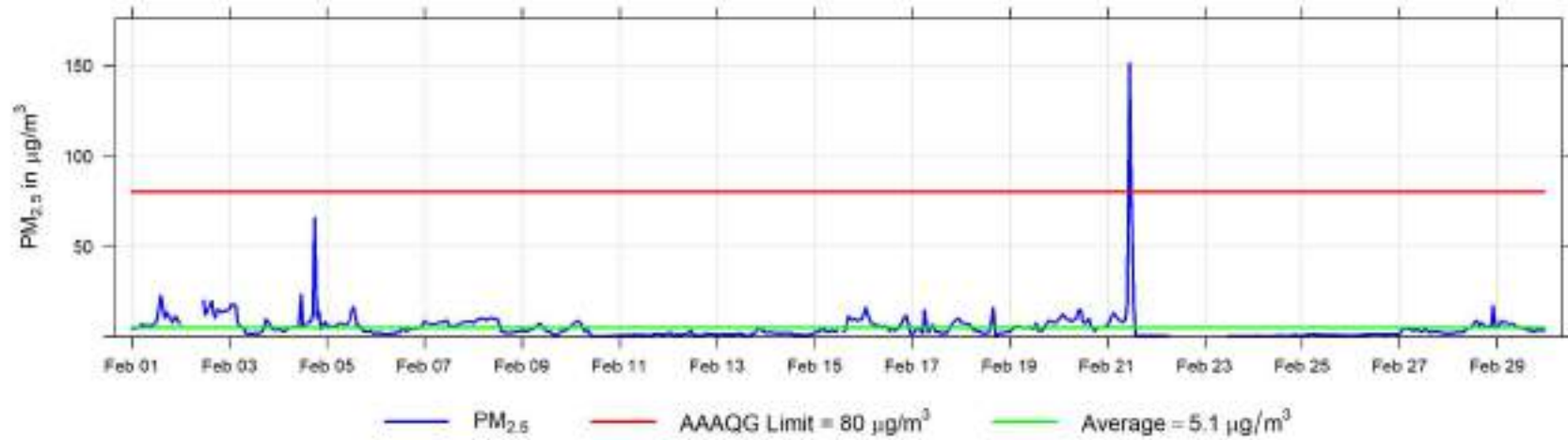
February 2024 Hourly Concentration Readings of SO₂ (in ppb) at Dunes



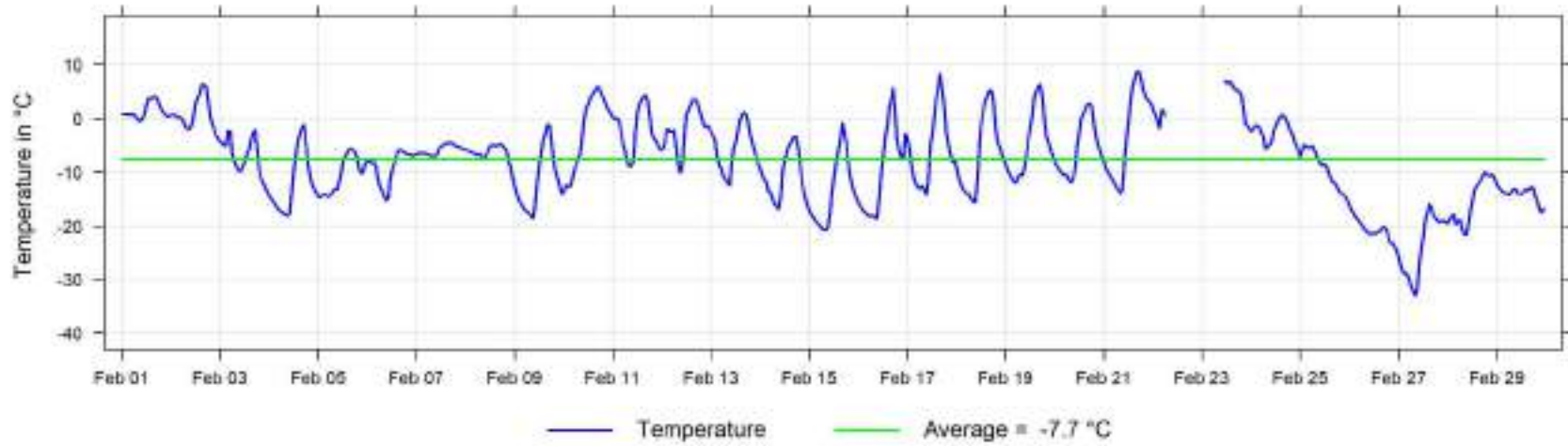
February 2024 Hourly Concentration Readings of TRS (in ppb) at Dunes



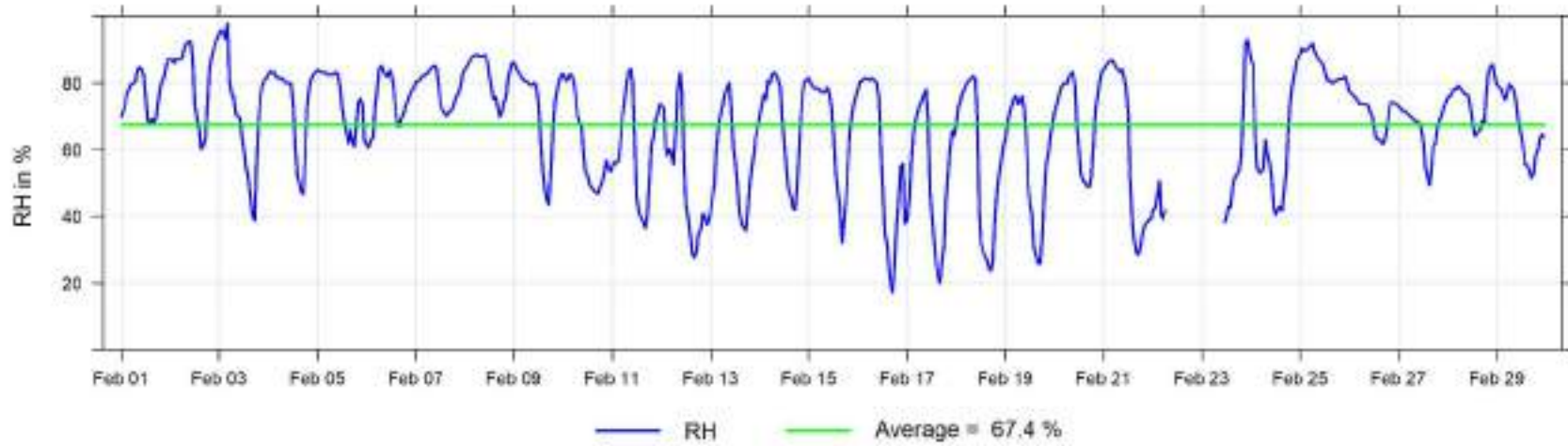
February 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Dunes



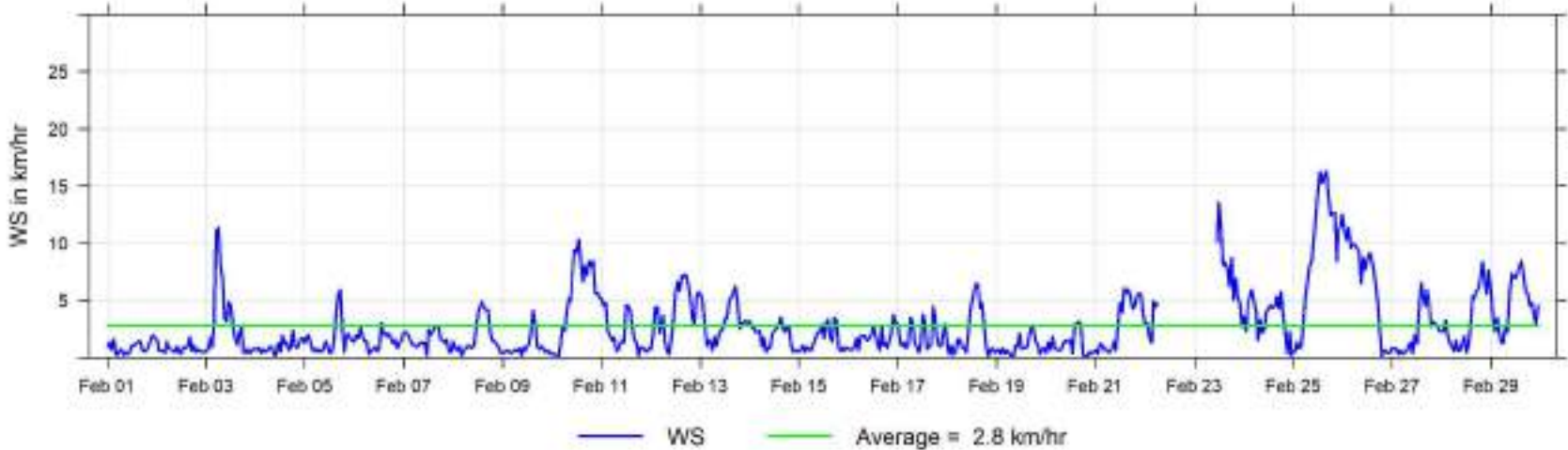
February 2024 Hourly Temperature Readings (in °C) at Dunes



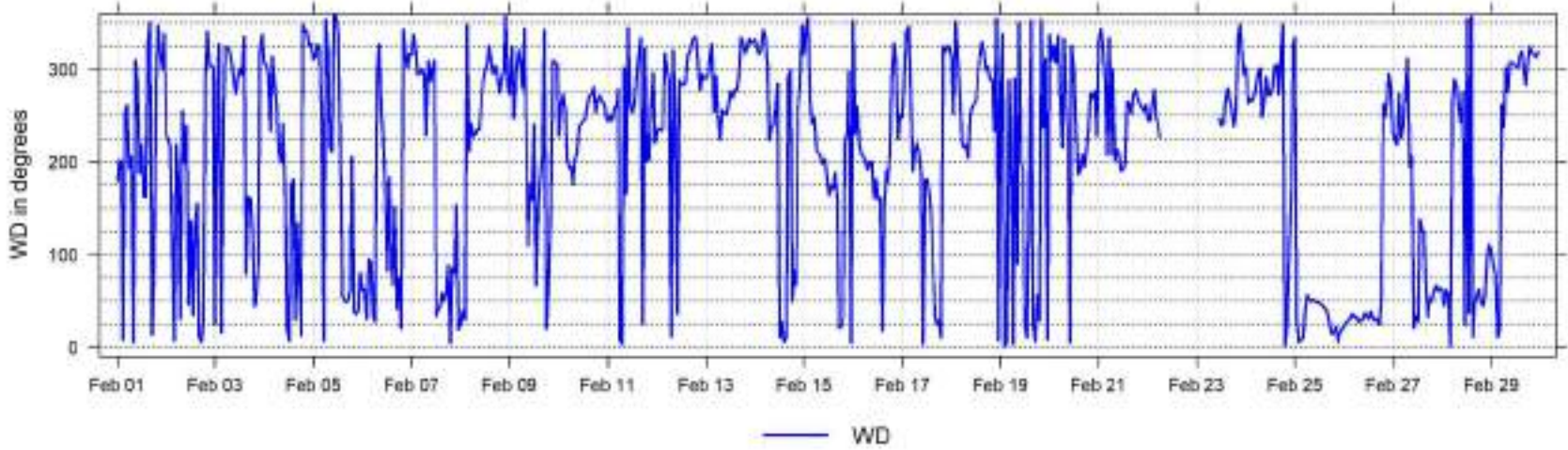
February 2024 Hourly Readings of Relative Humidity (in %) at Dunes



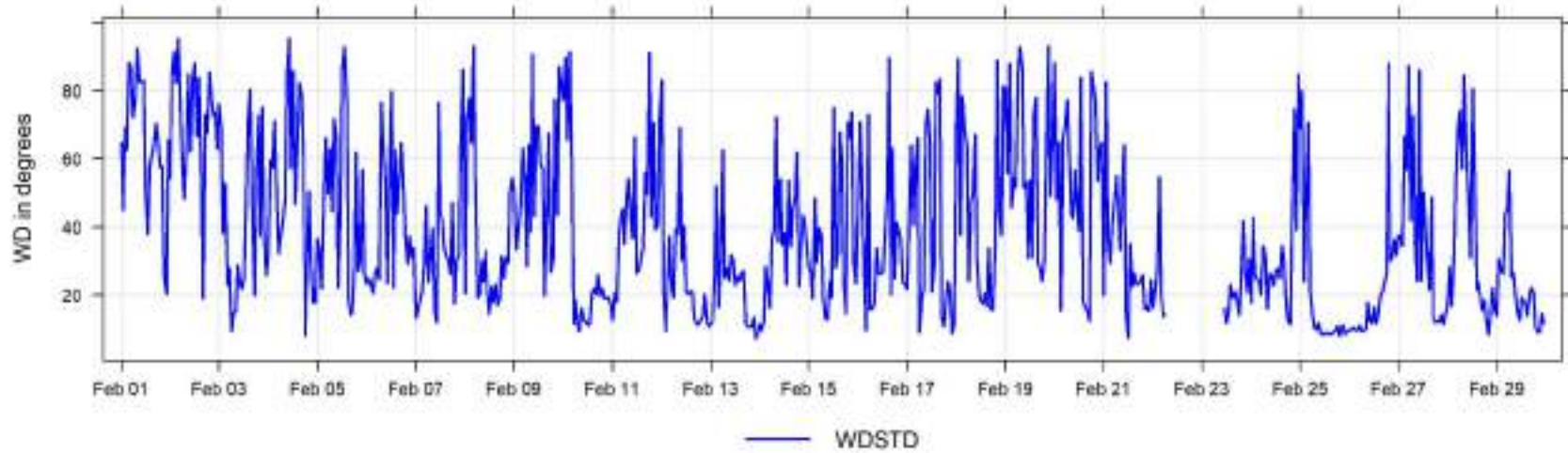
February 2024 Hourly Readings of Wind Speed (in km/hr) at Dunes

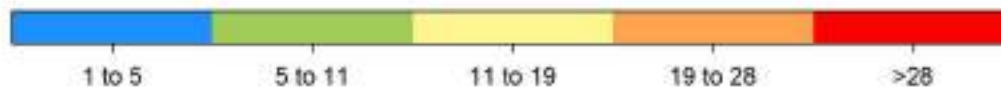
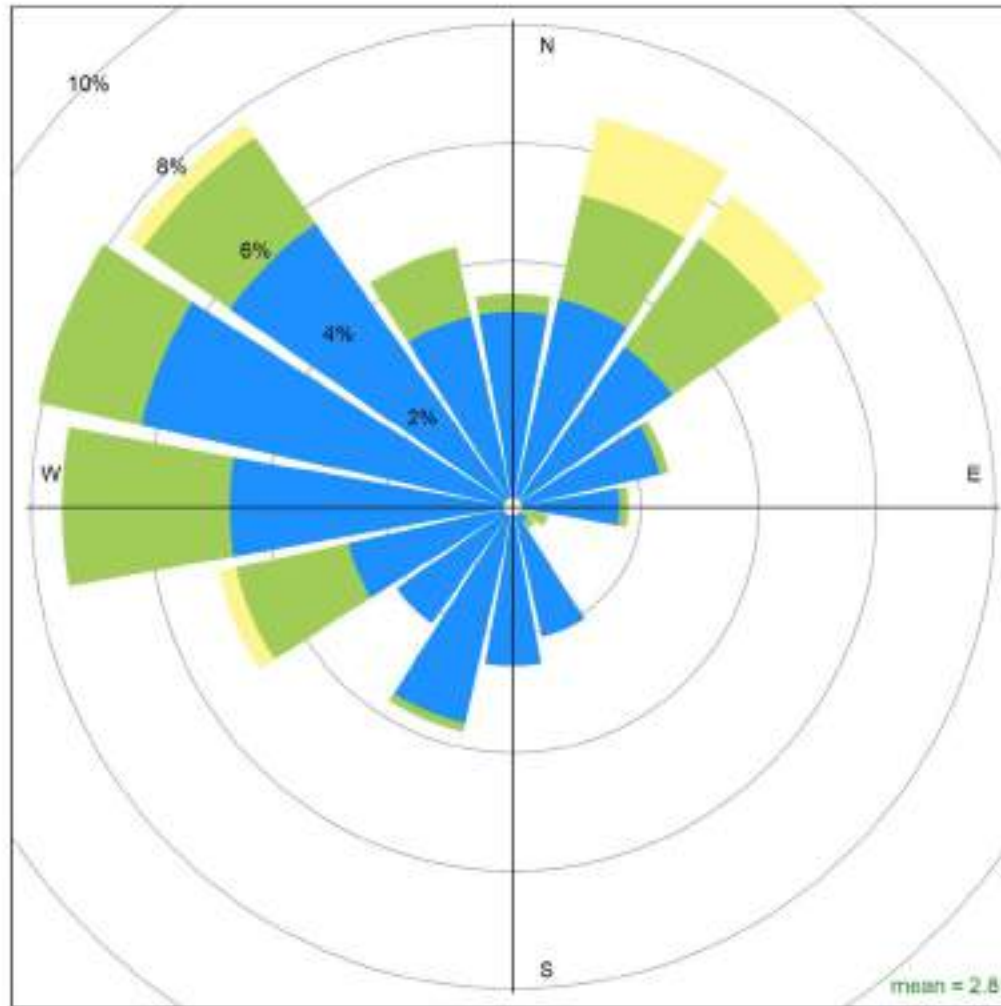


February 2024 Hourly Readings of Wind Direction (in degrees) at Dunes



February 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Dunes





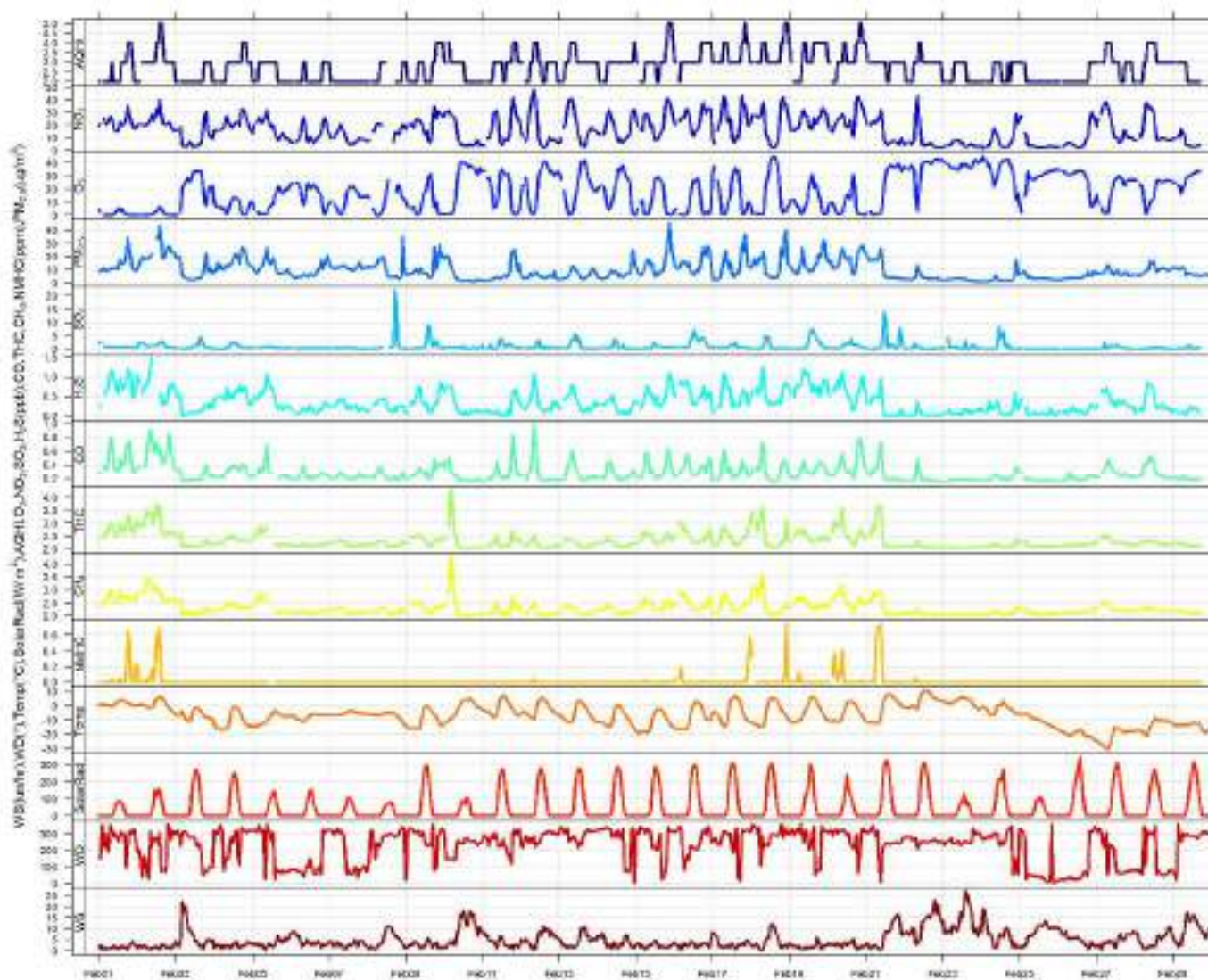
Dunes February 2024 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 35.4 %

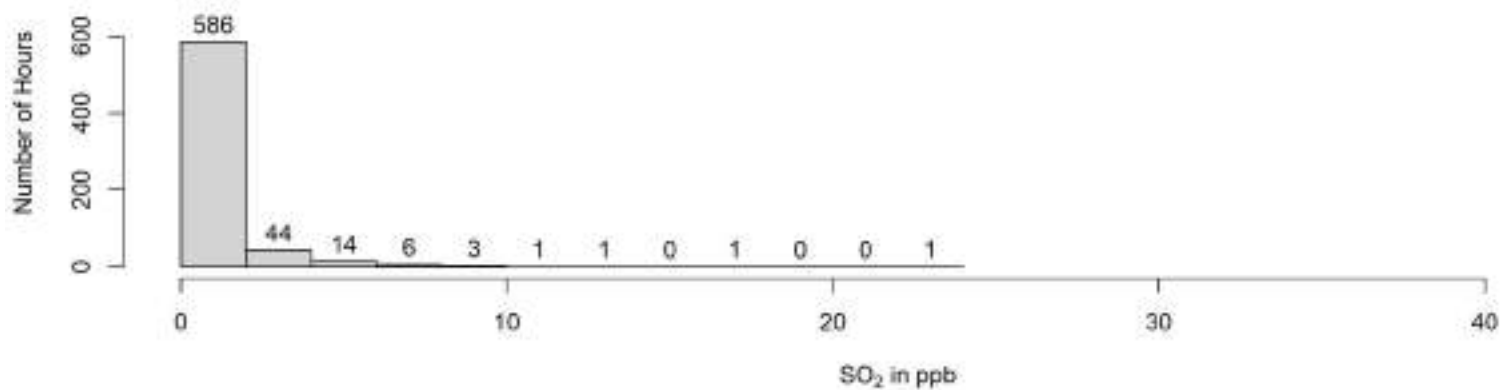
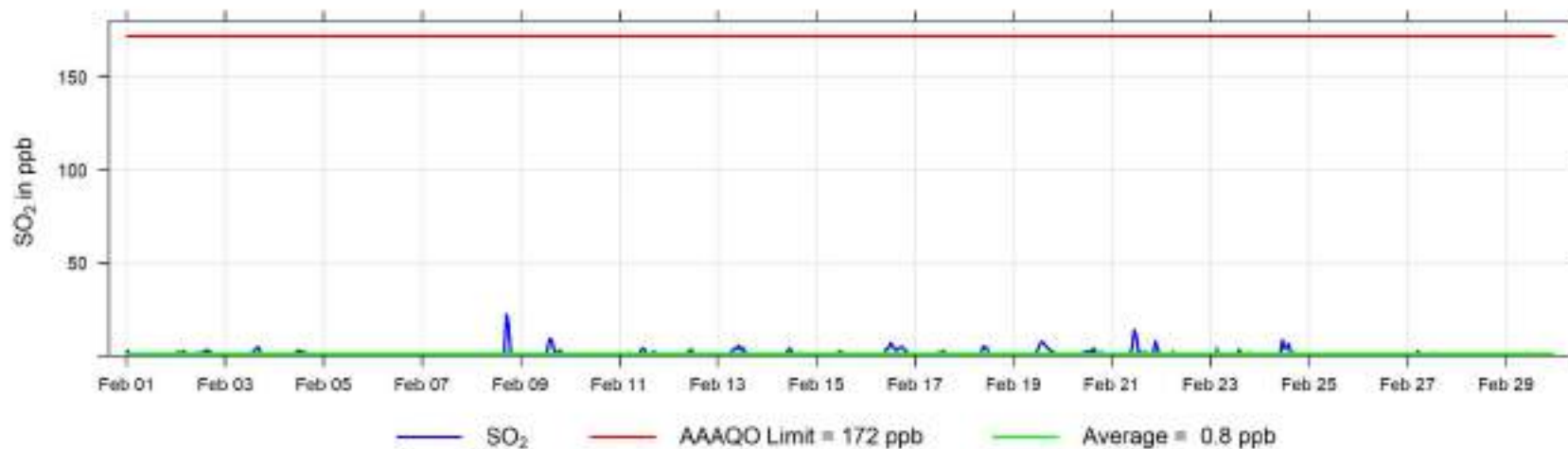
4 Grande Prairie - Henry Pirker Charts

The following pages include the charts and histograms for Henry Pirker Station in Grande Prairie

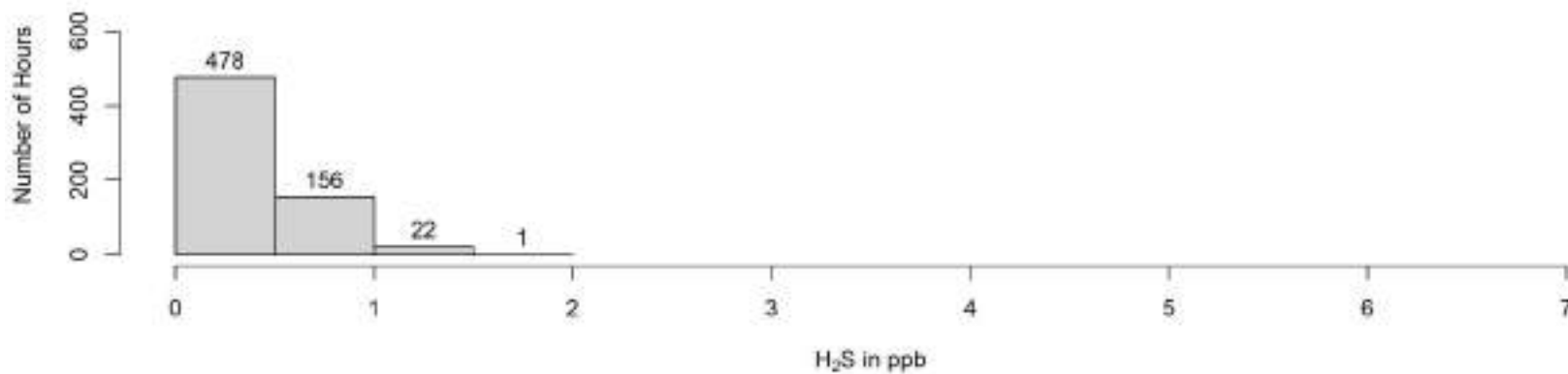
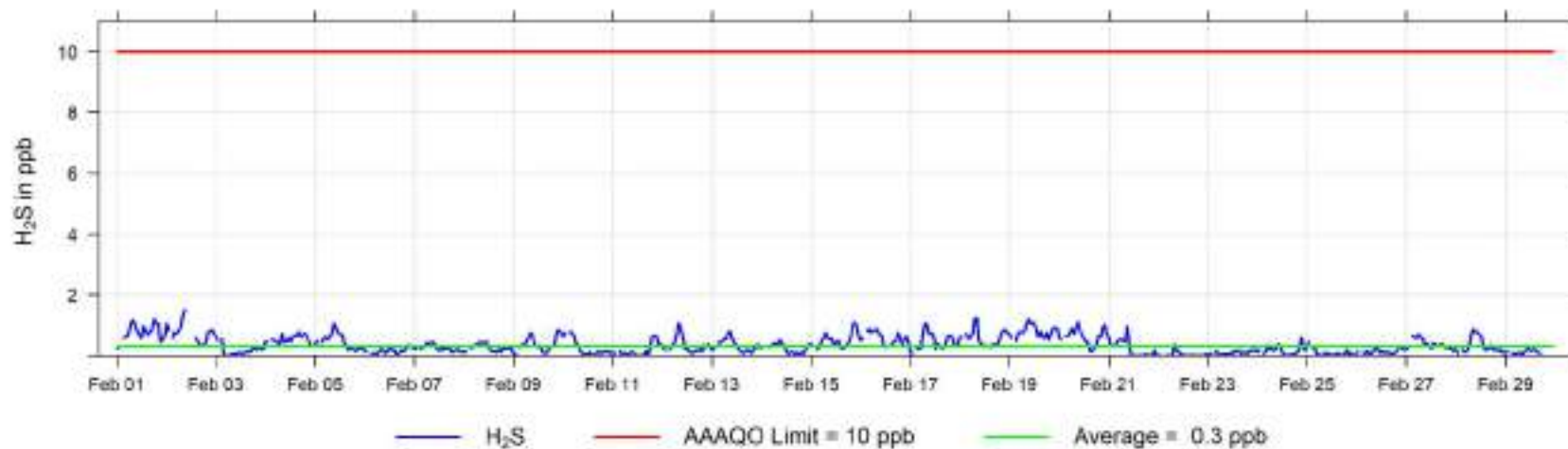
February 2024 Concentration Readings at Henry Pirker Station



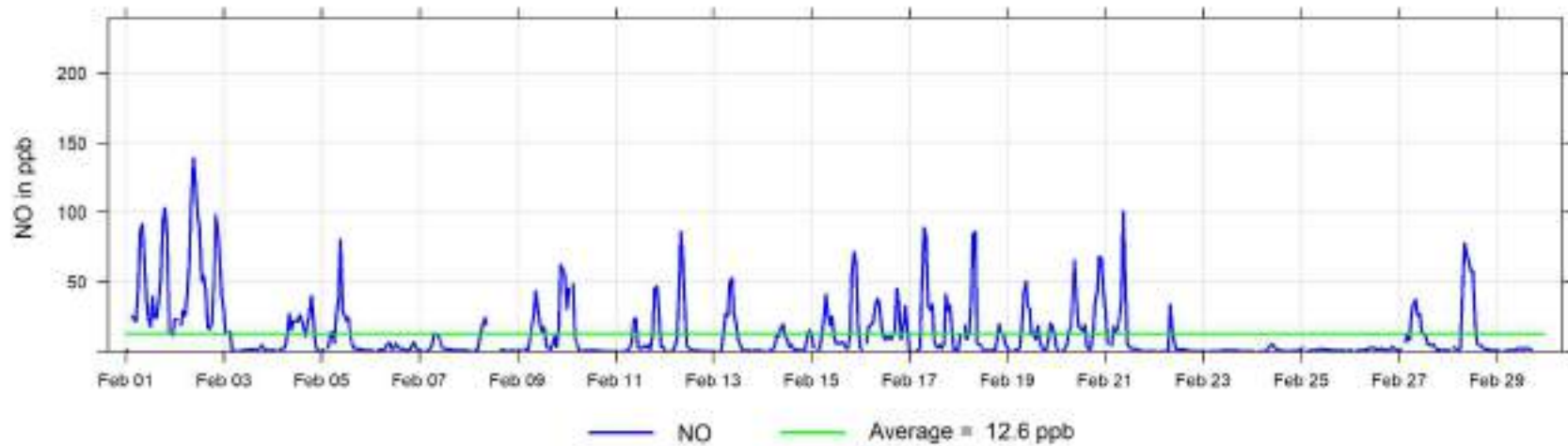
February 2024 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



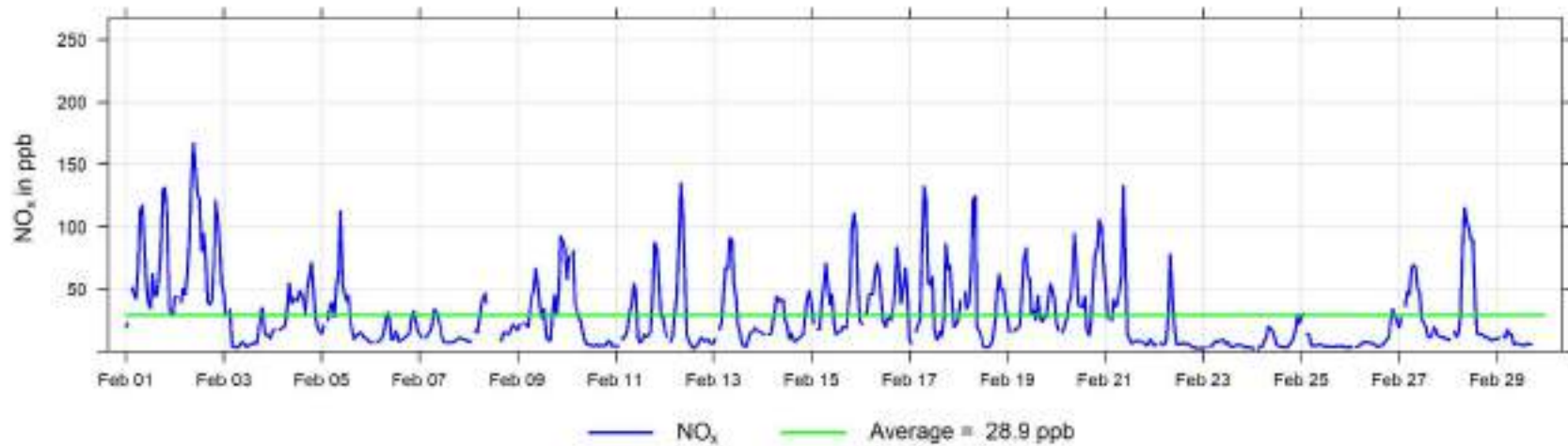
February 2024 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



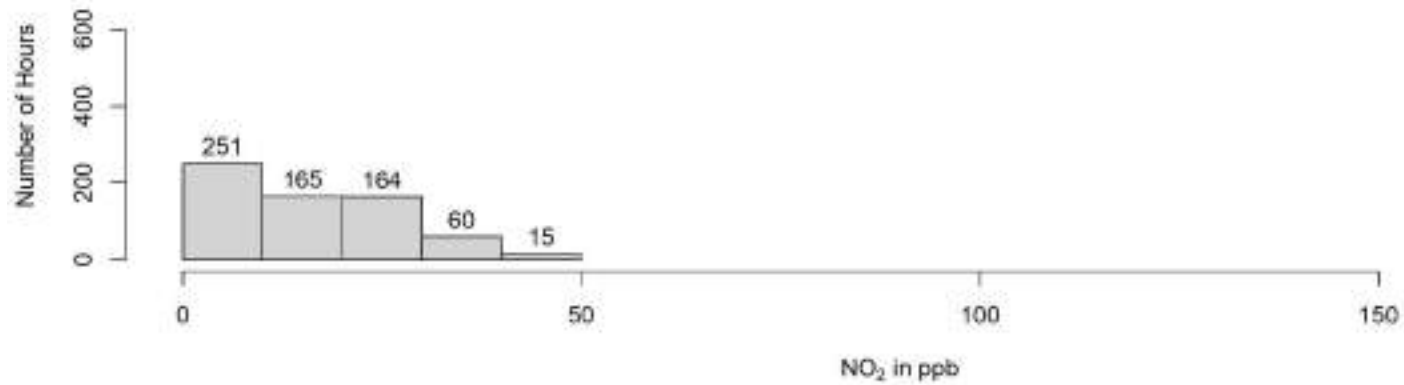
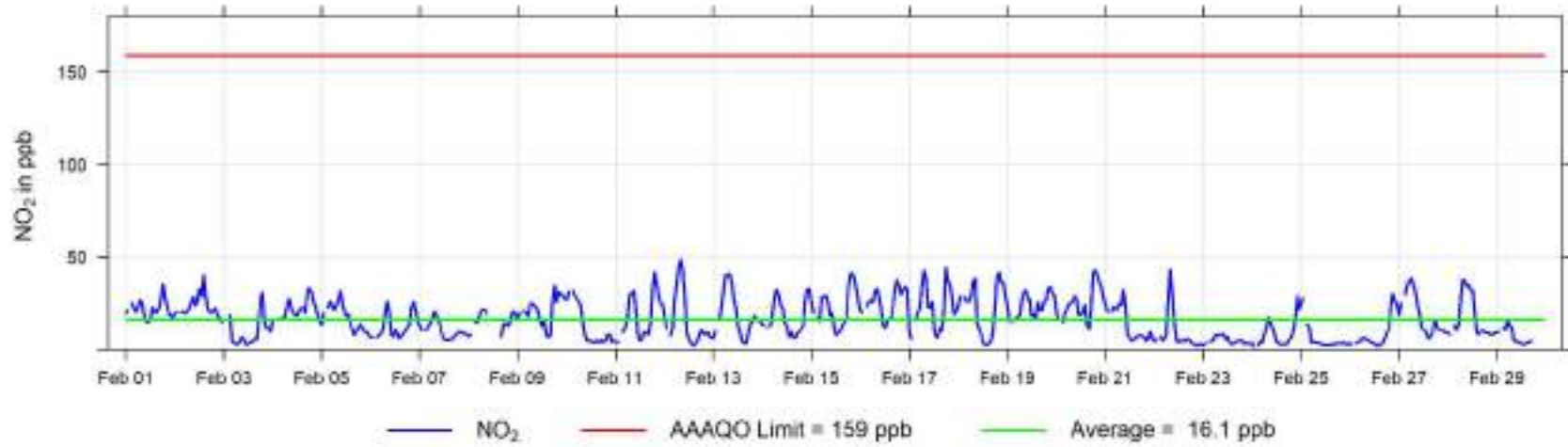
February 2024 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



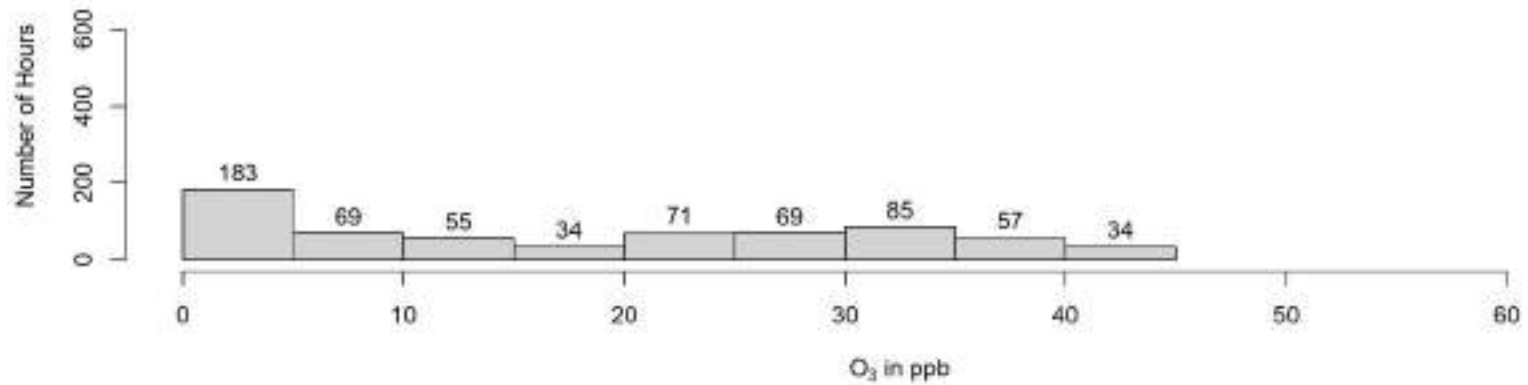
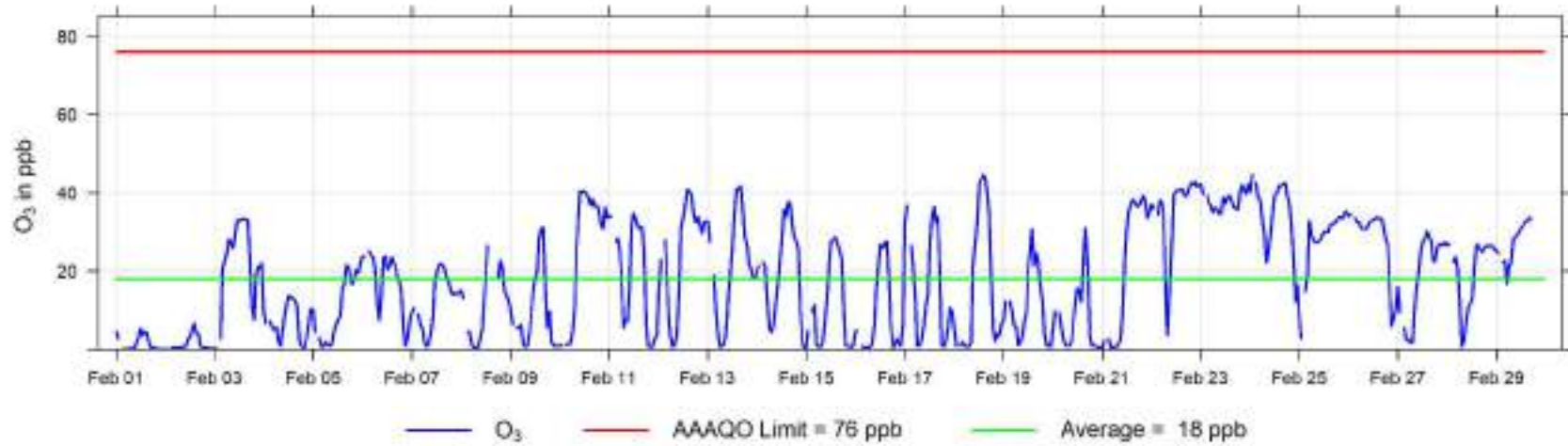
February 2024 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



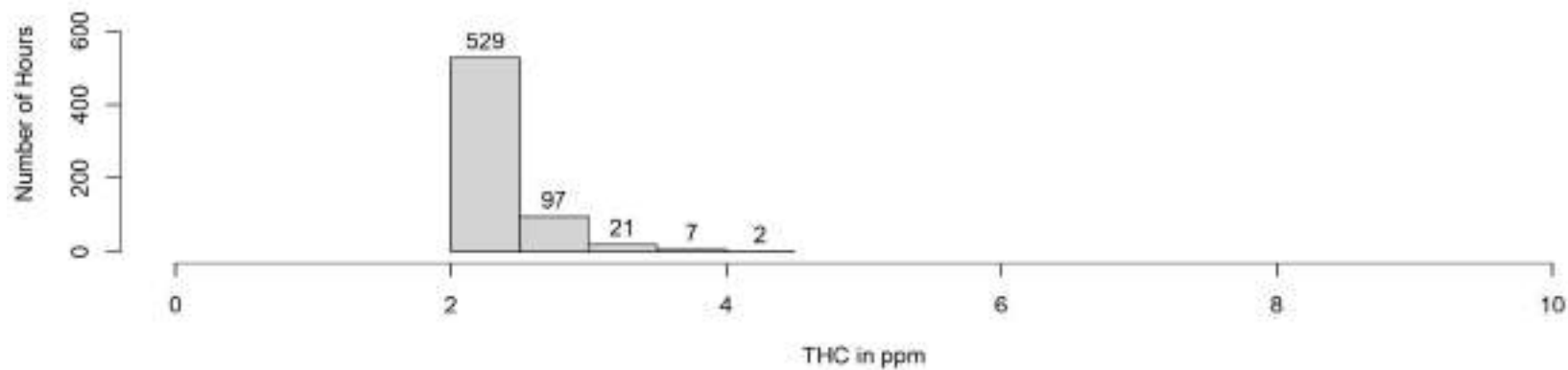
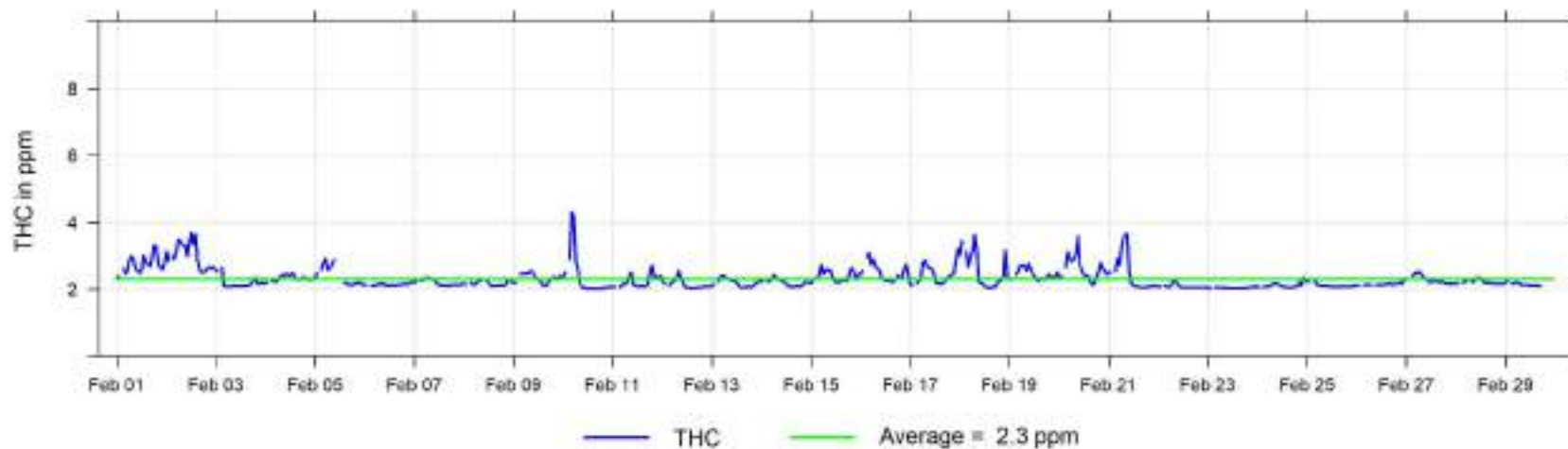
February 2024 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



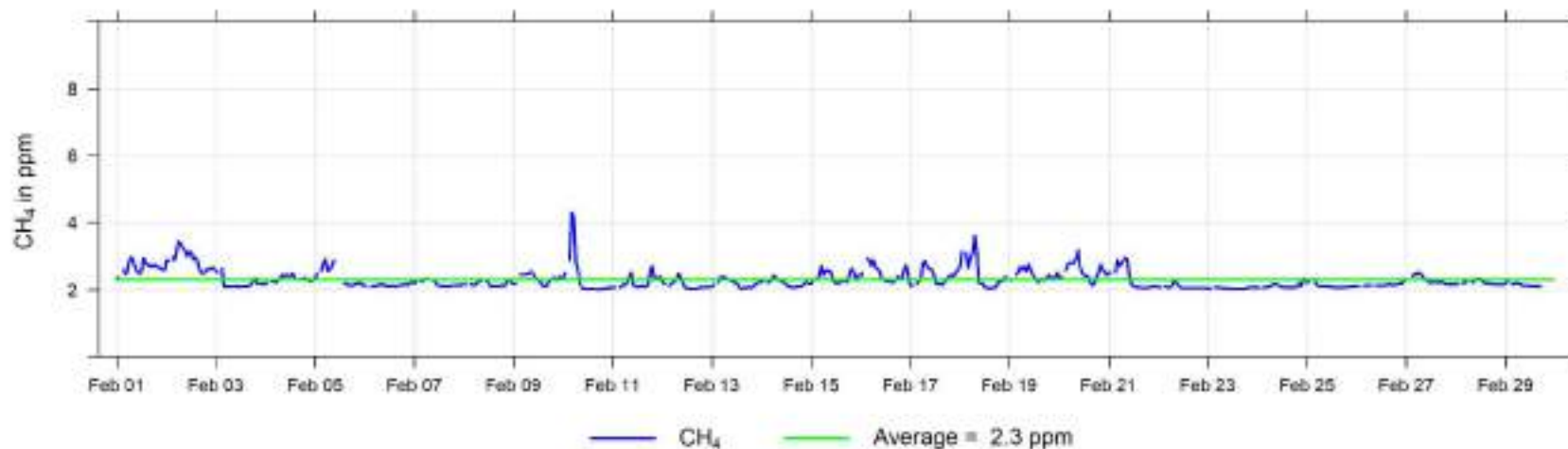
February 2024 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



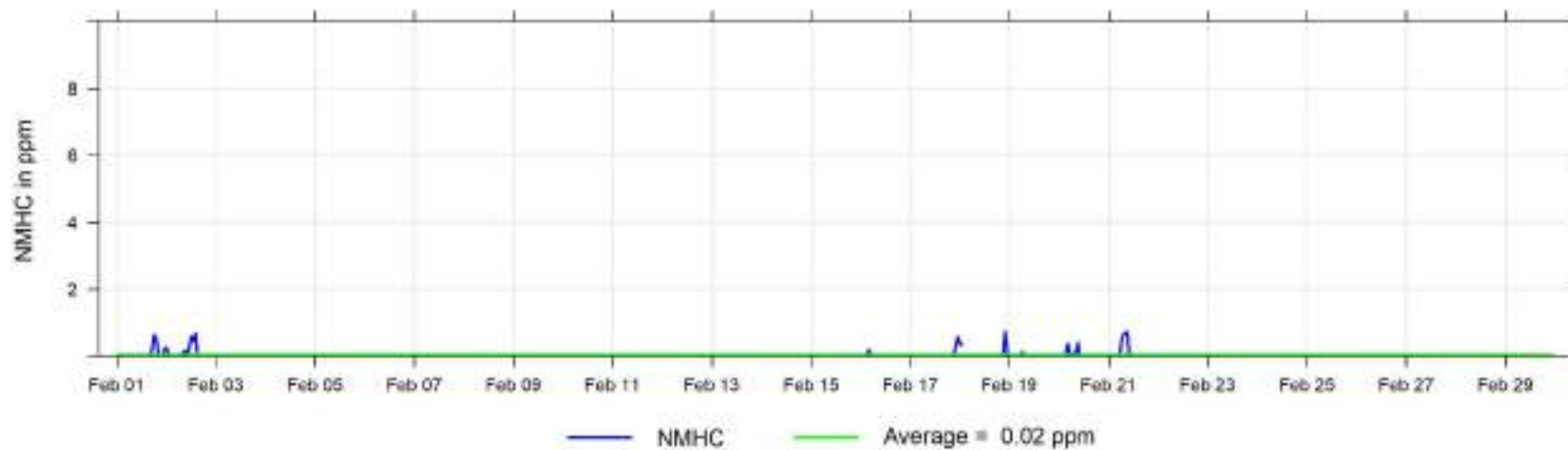
February 2024 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



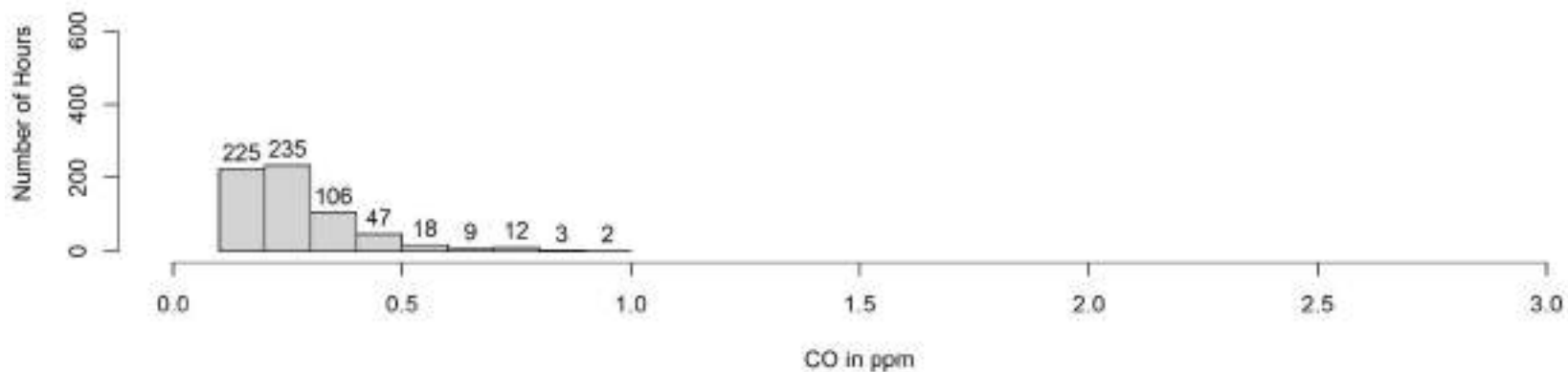
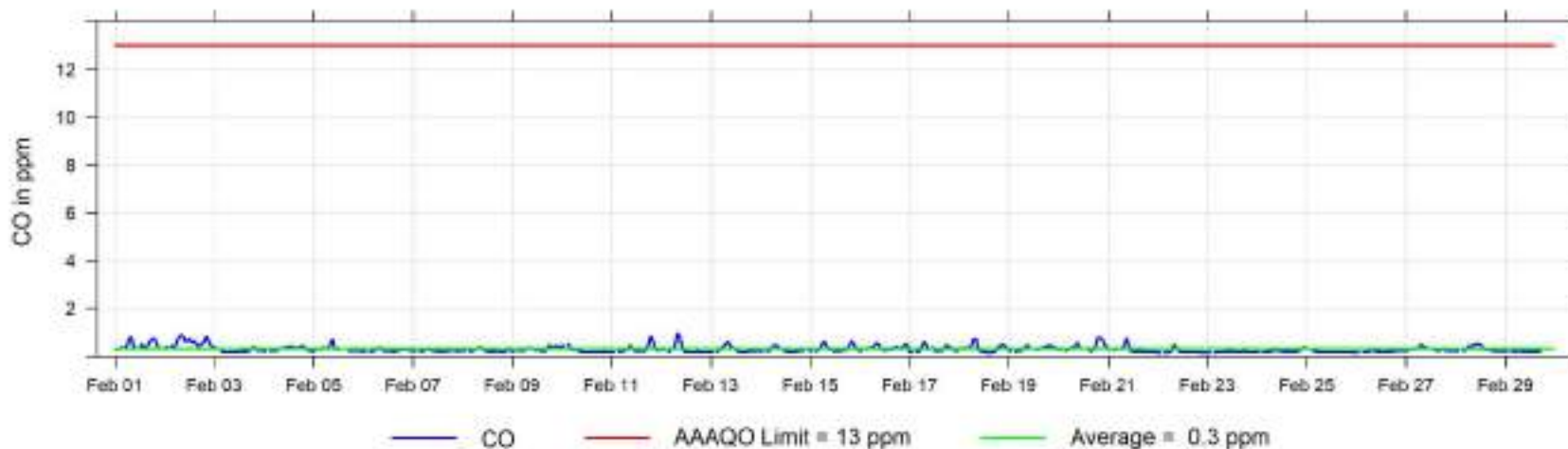
February 2024 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker



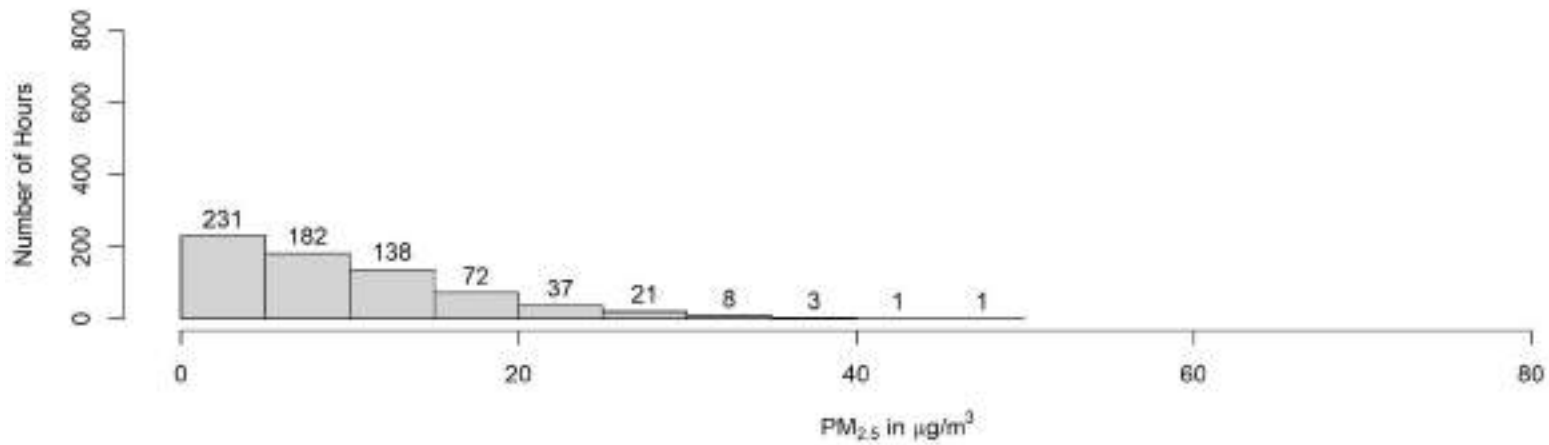
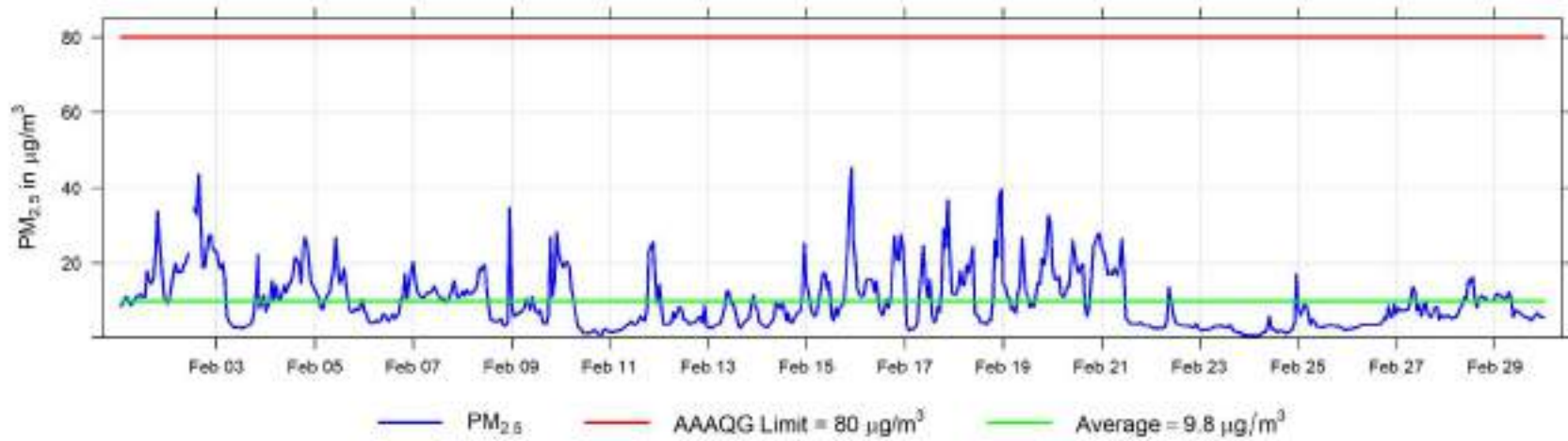
February 2024 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker



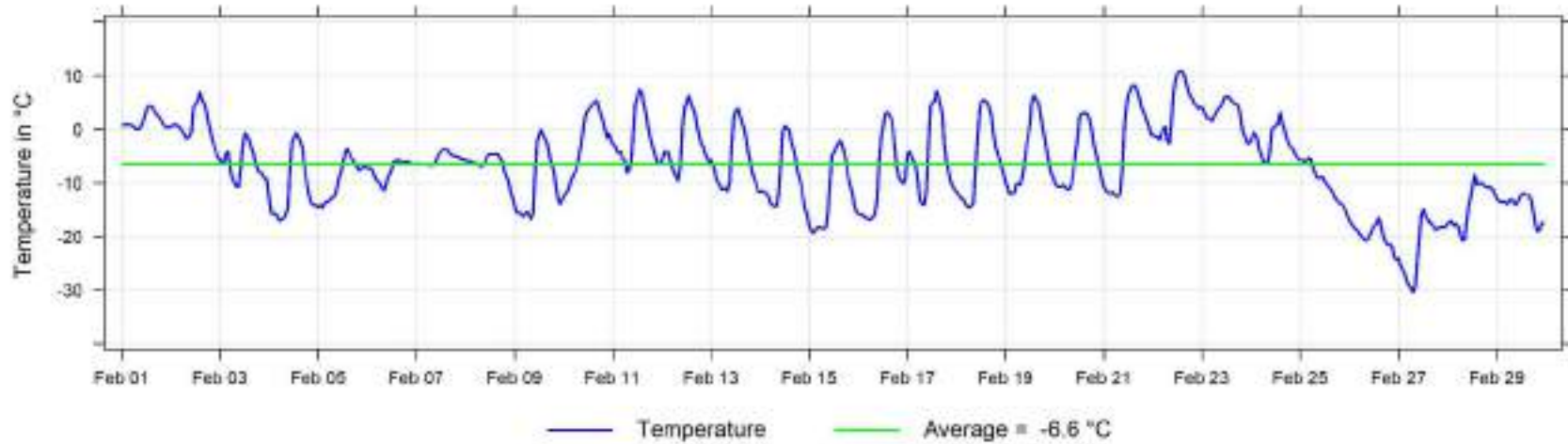
February 2024 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



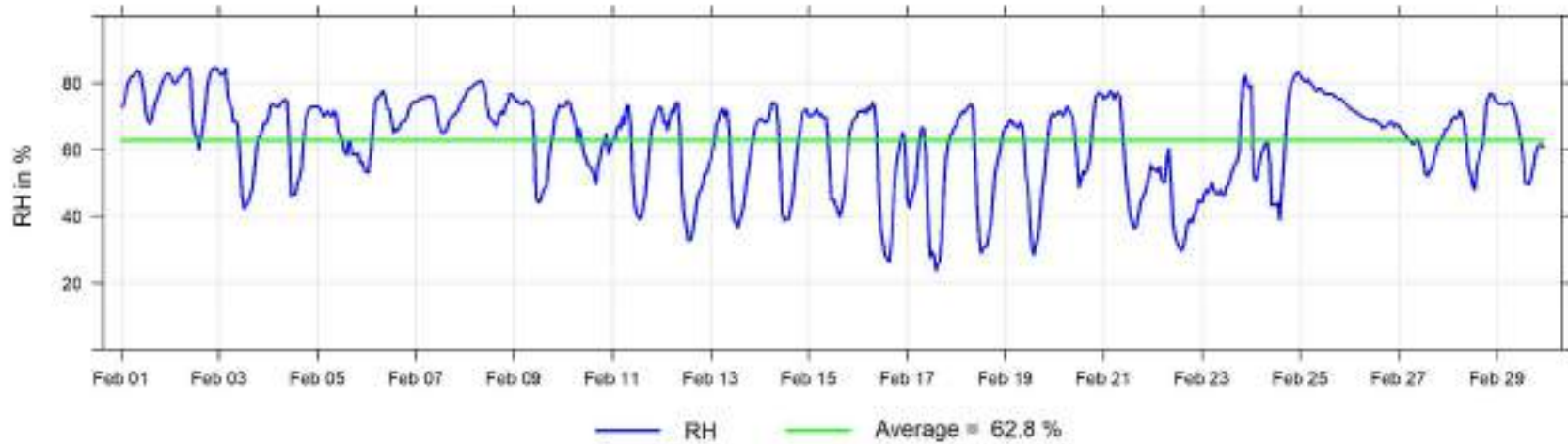
February 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



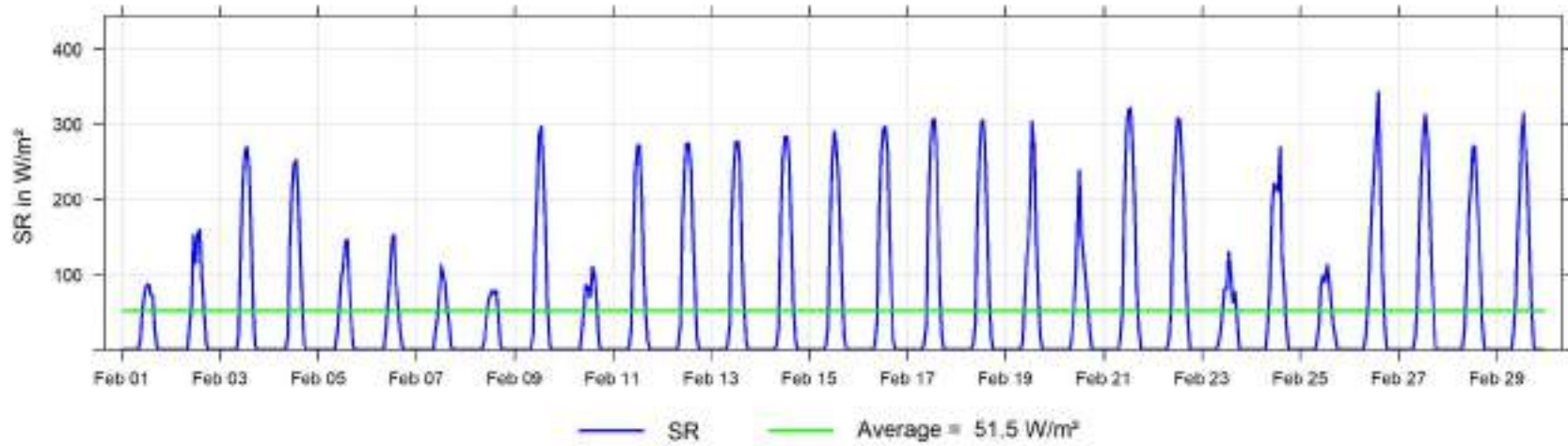
February 2024 Hourly Temperature Readings (in °C) at Henry Pirker



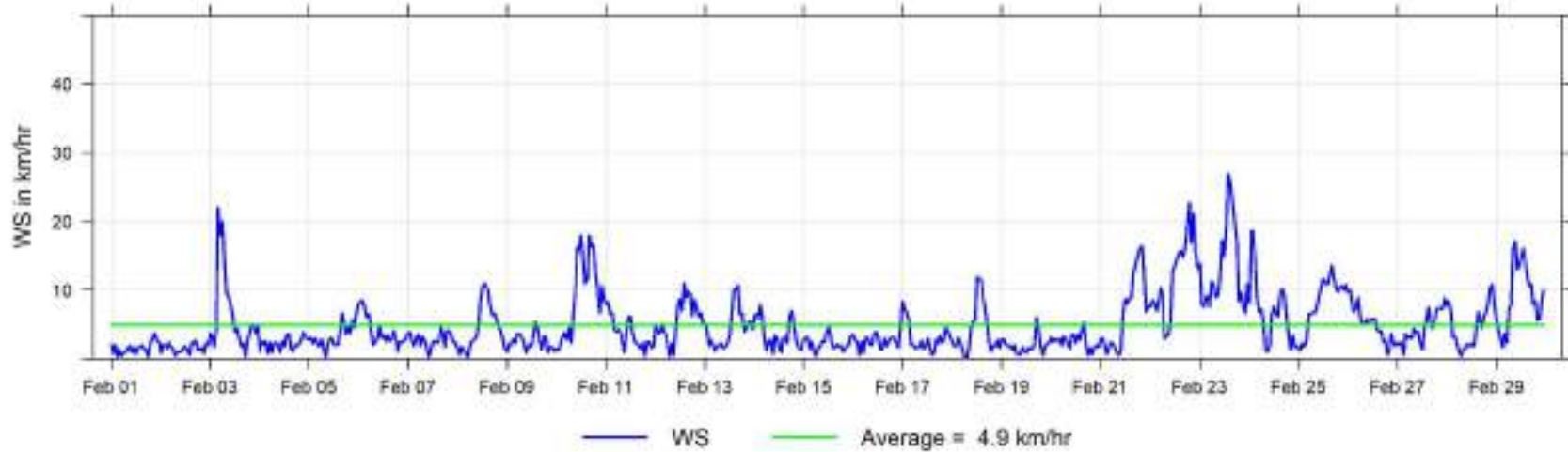
February 2024 Hourly Readings of Relative Humidity (in %) at Henry Pirker



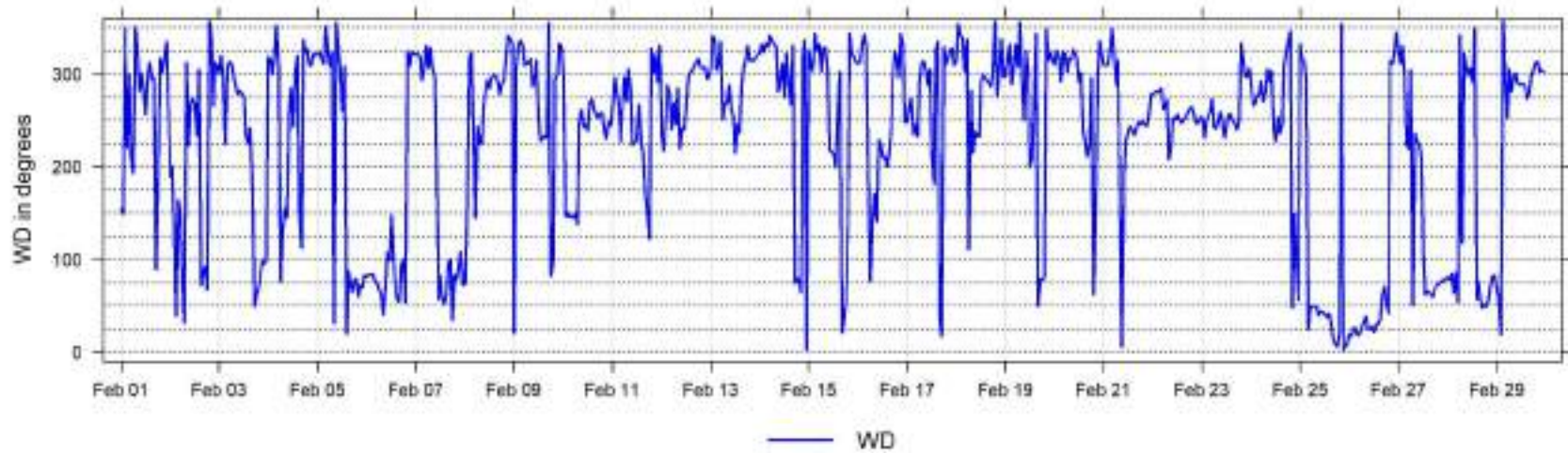
February 2024 Hourly Readings of Solar Radiation (in W/m²) at Henry Pirker



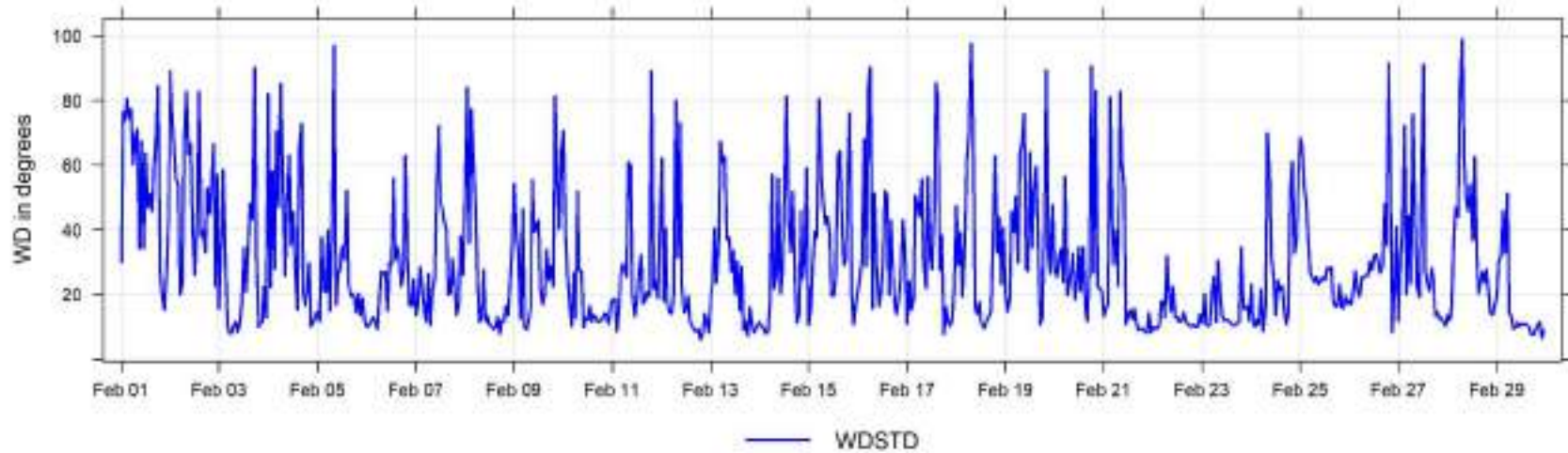
February 2024 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker

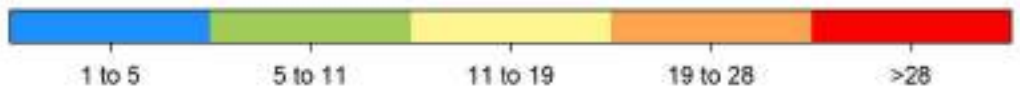
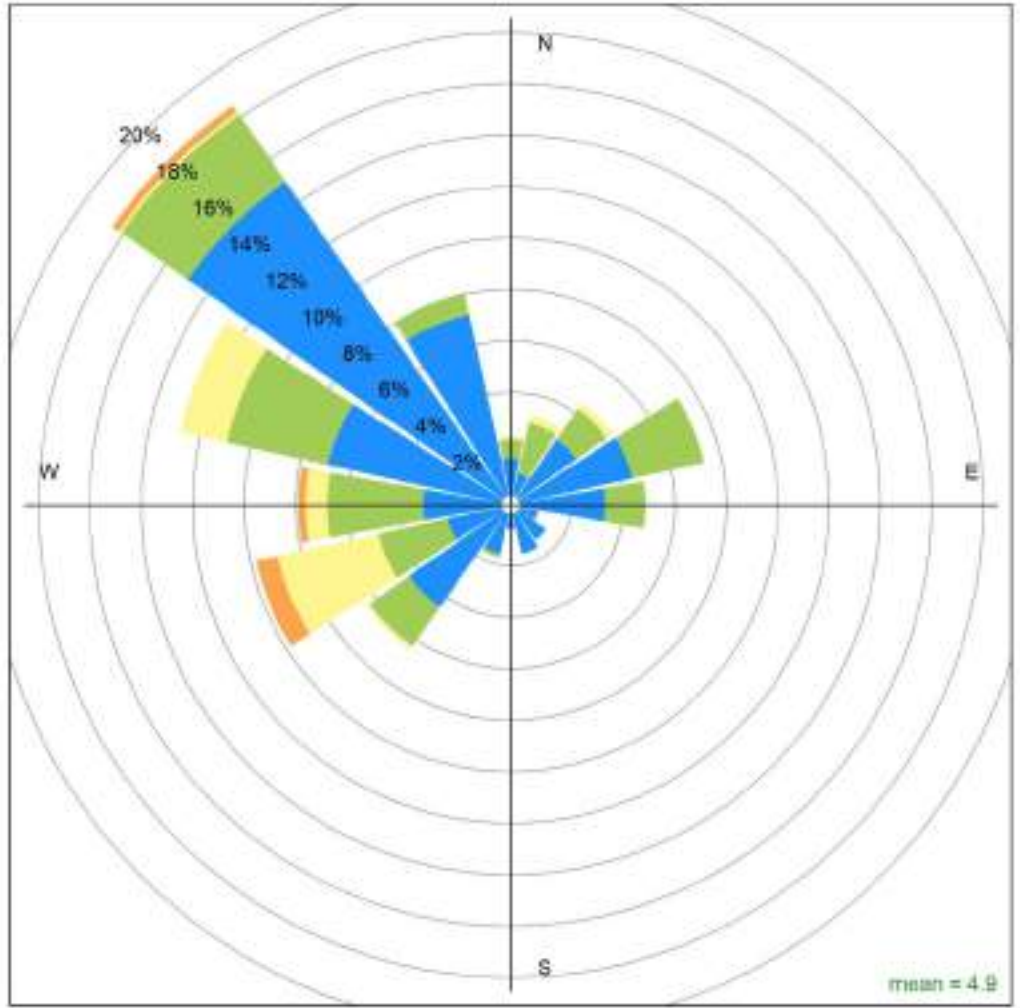


February 2024 Hourly Readings of Wind Direction (in degrees) at Henry Pirker



February 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Henry Pirker

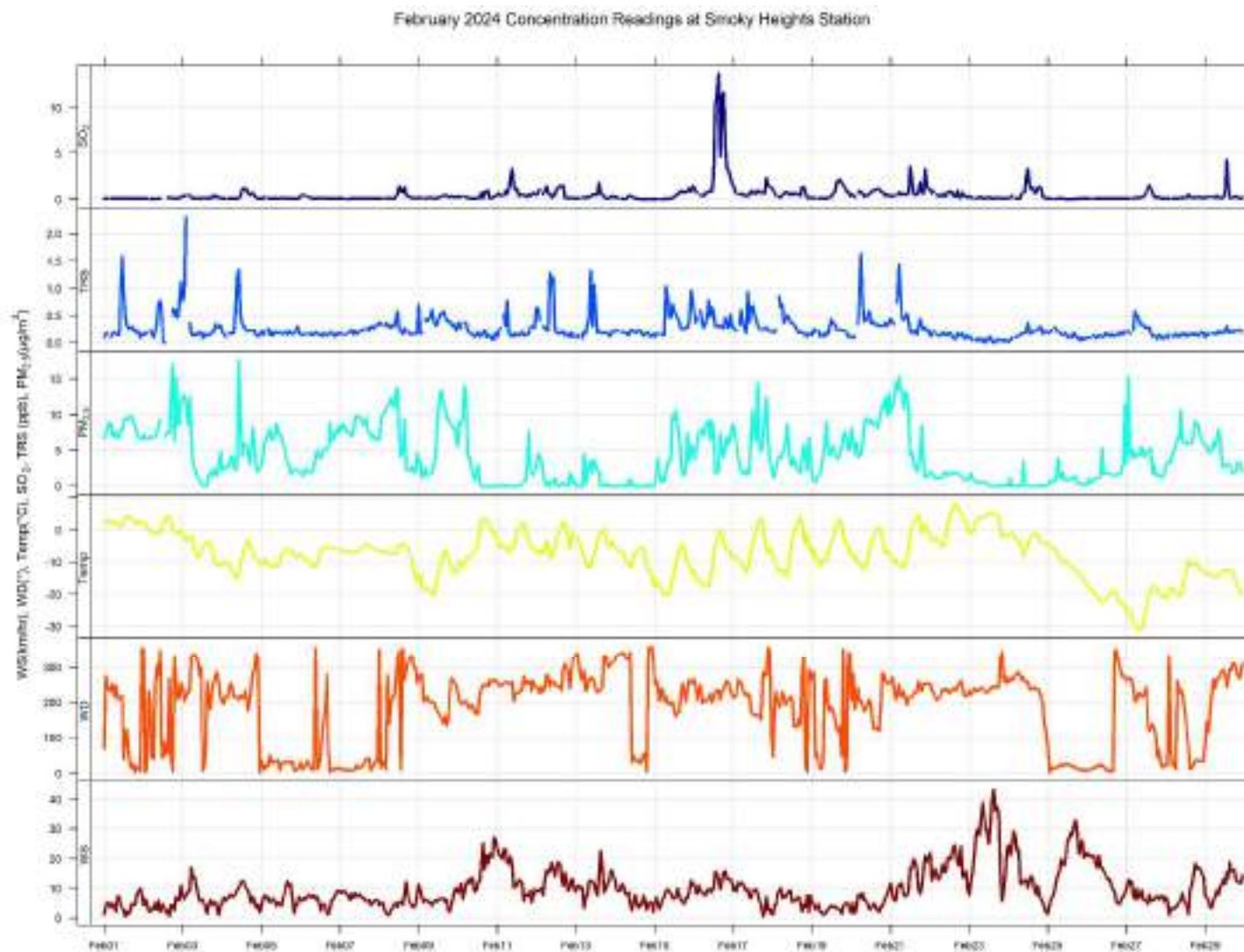




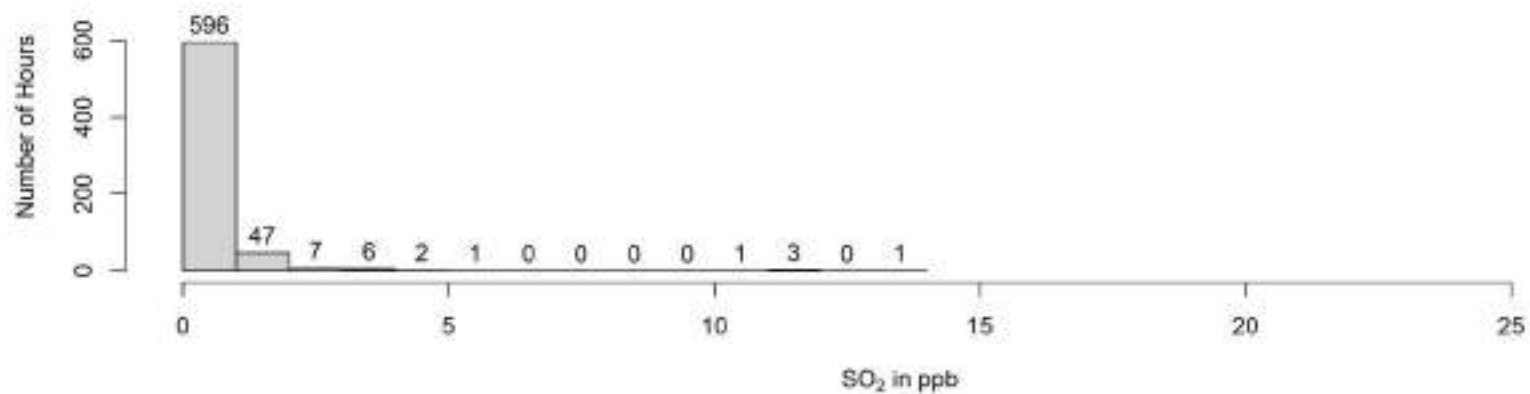
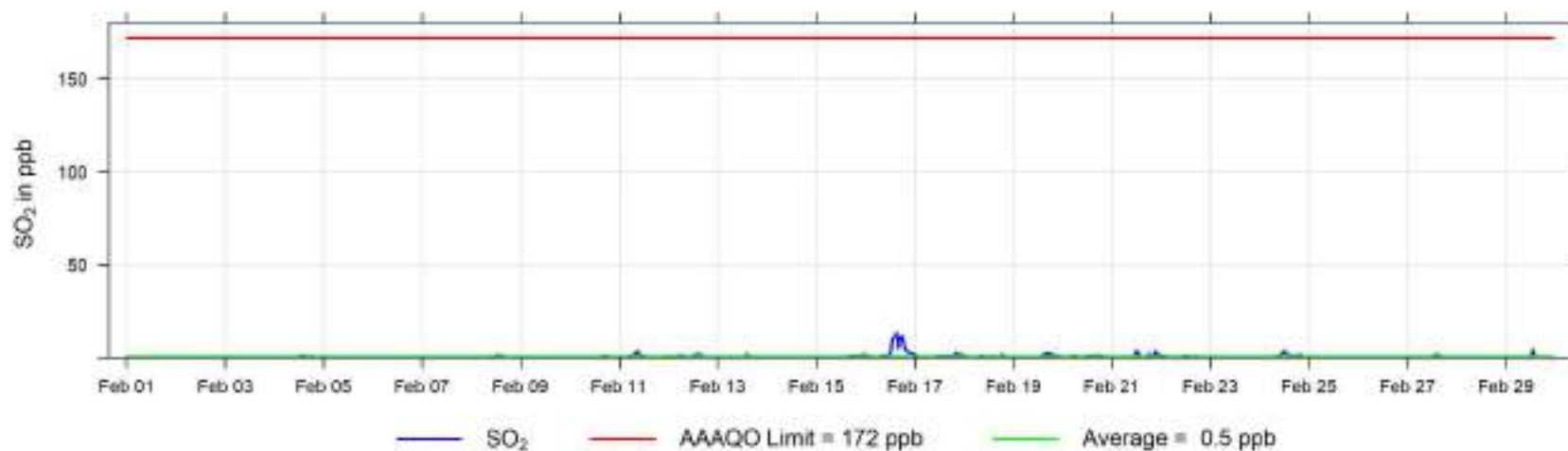
Henry Pirker February 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 8.3 %

5 Smoky Heights Charts

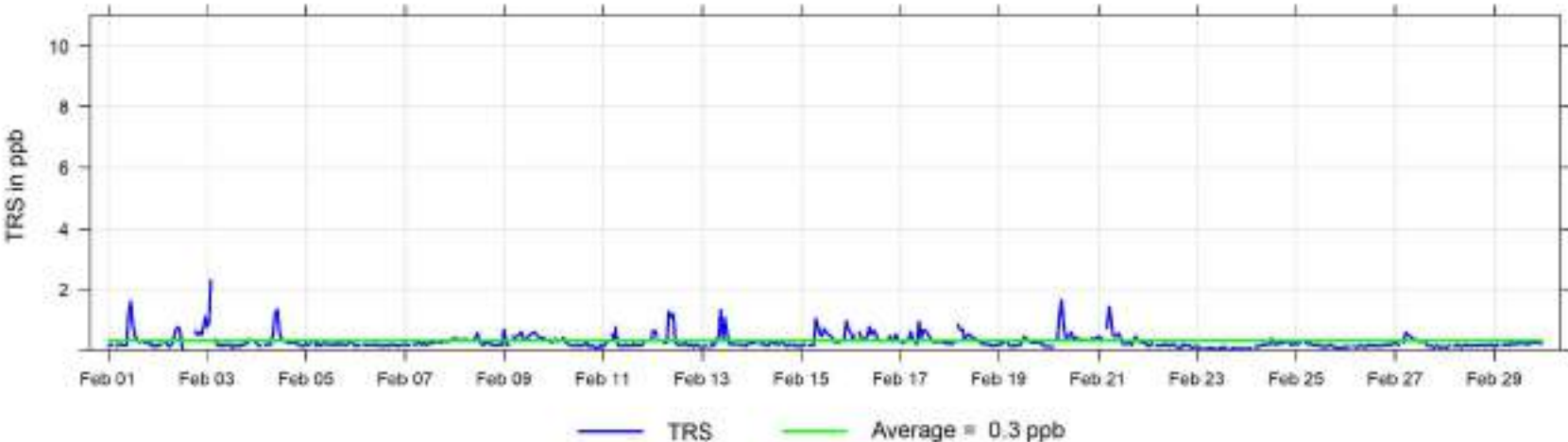
The following pages include the charts and histograms for Smoky Heights Station



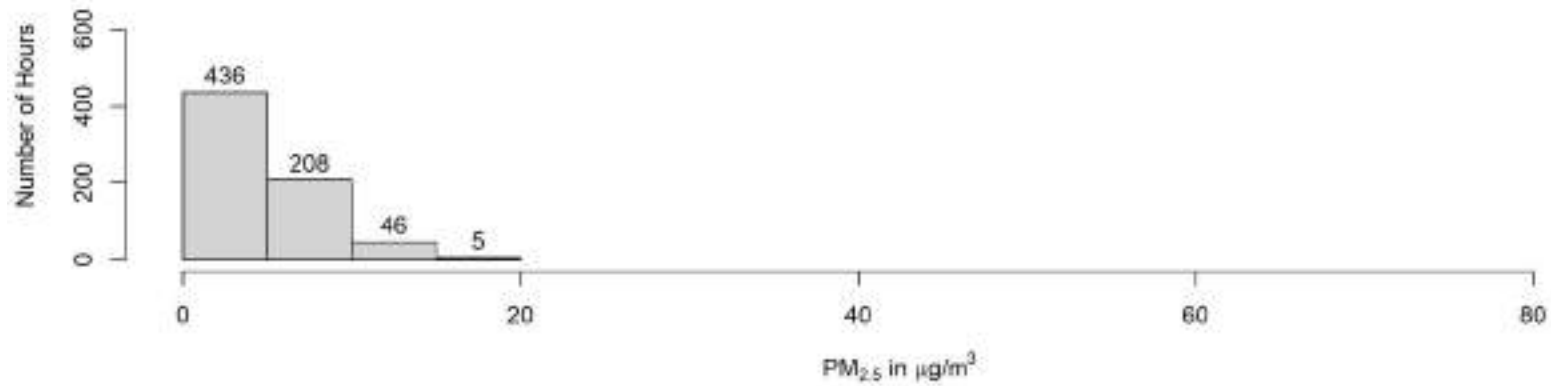
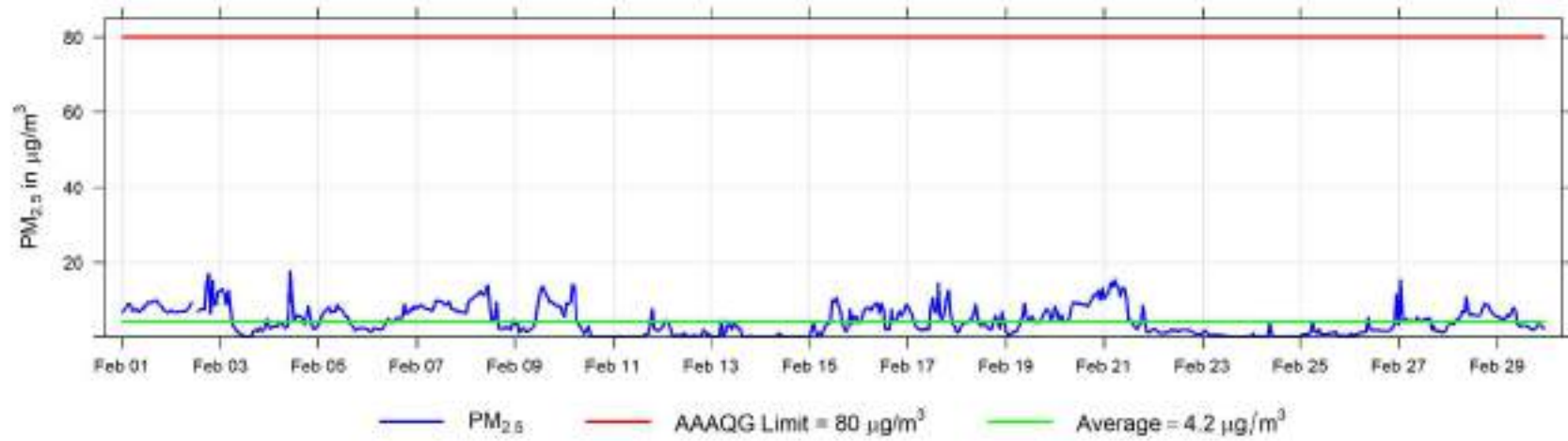
February 2024 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights



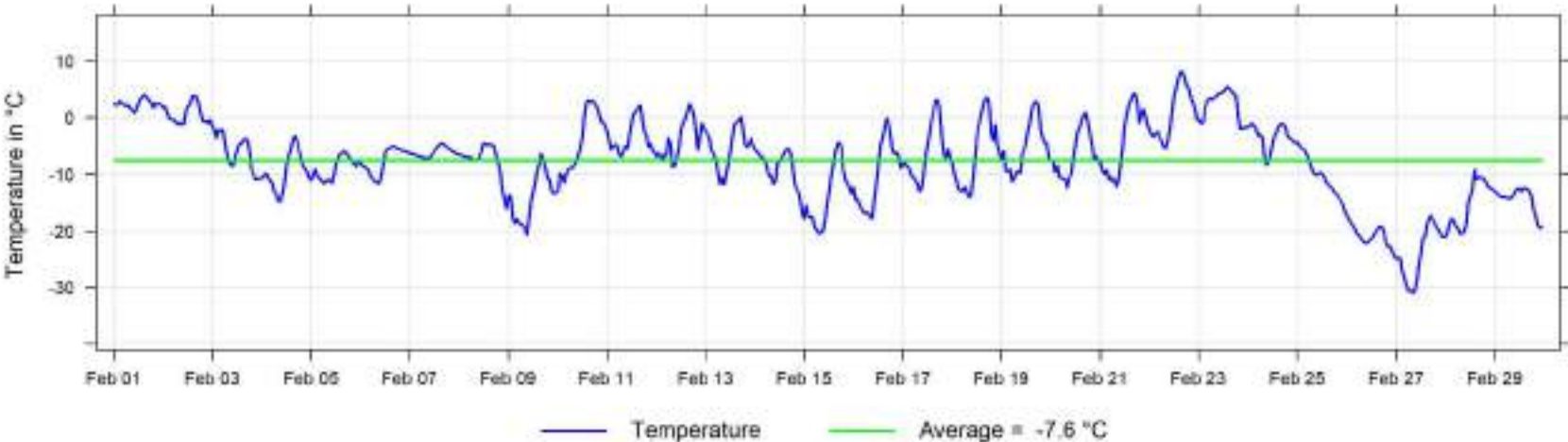
February 2024 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights



February 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Smoky Heights



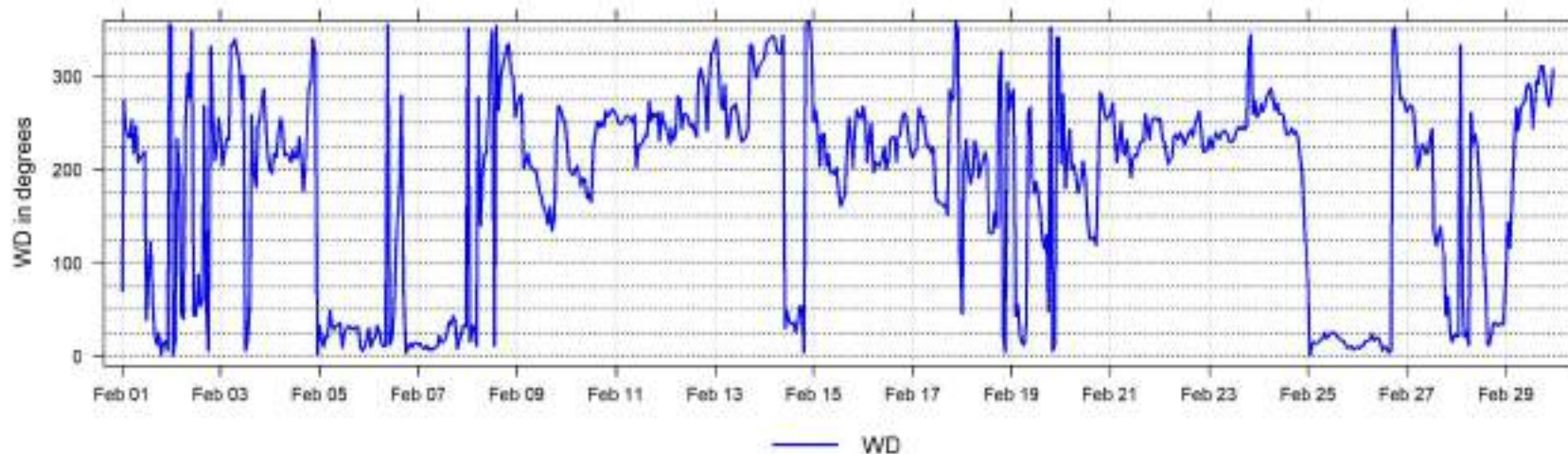
February 2024 Hourly Temperature Readings (in °C) at Smoky Heights



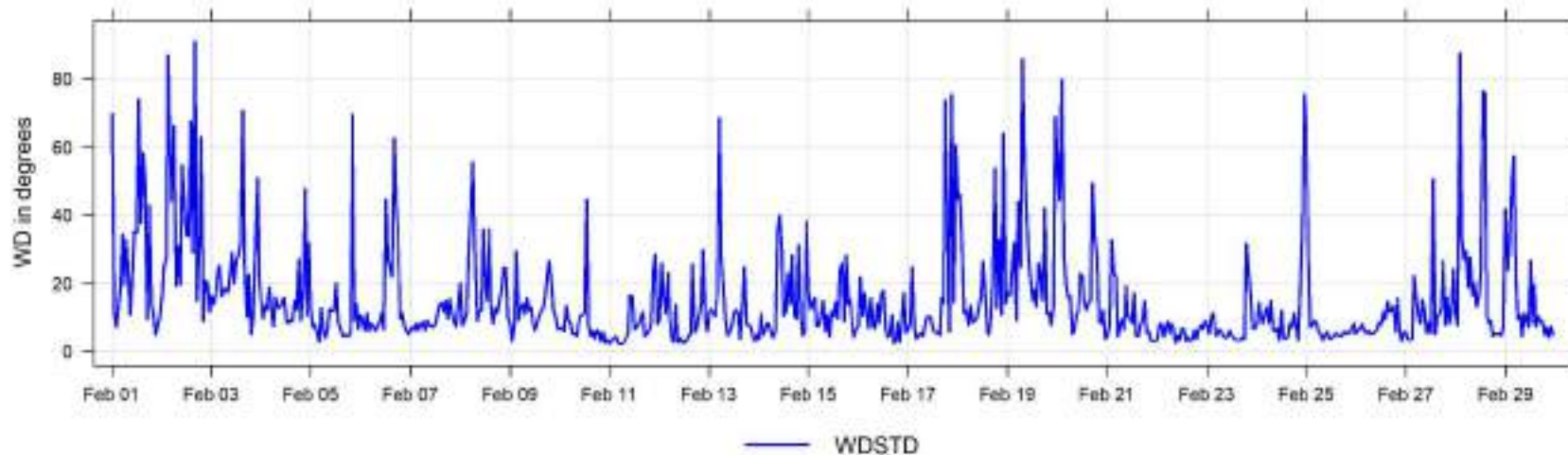
February 2024 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

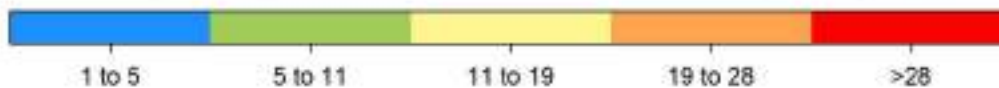
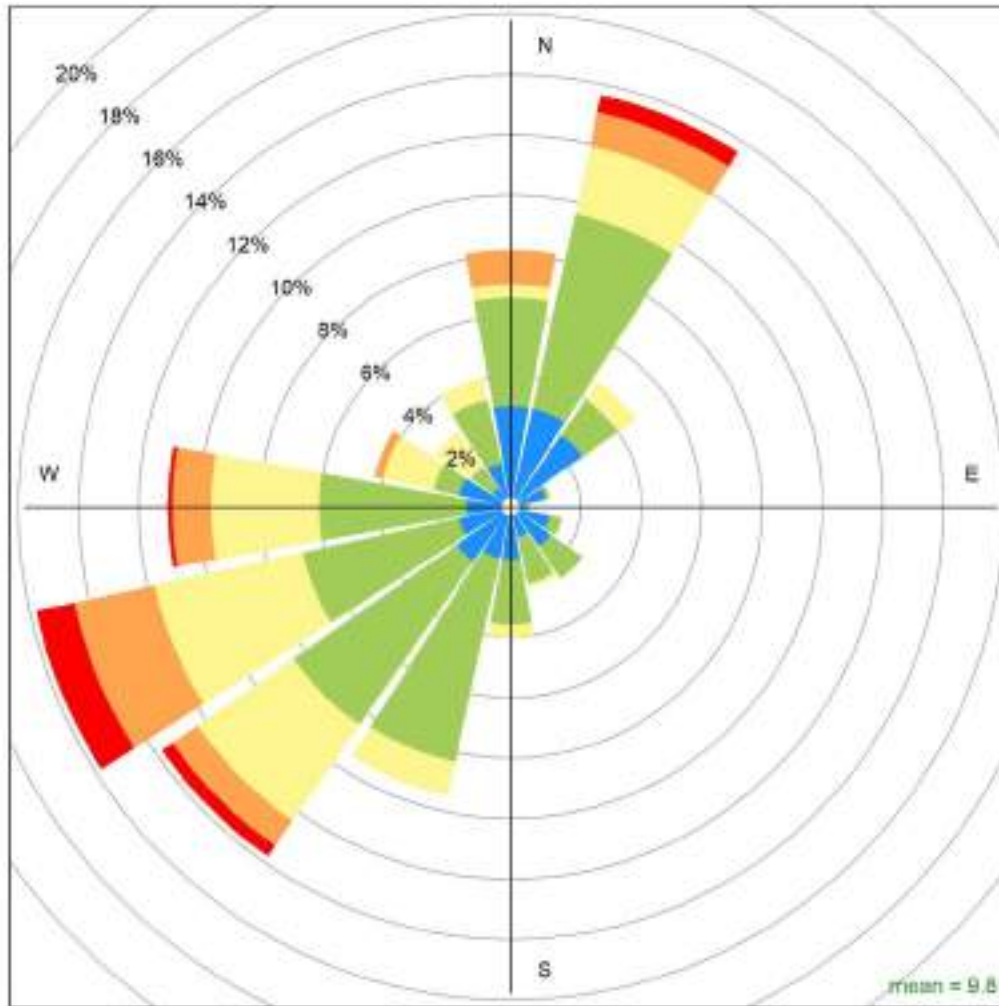


February 2024 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



February 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Smoky Heights



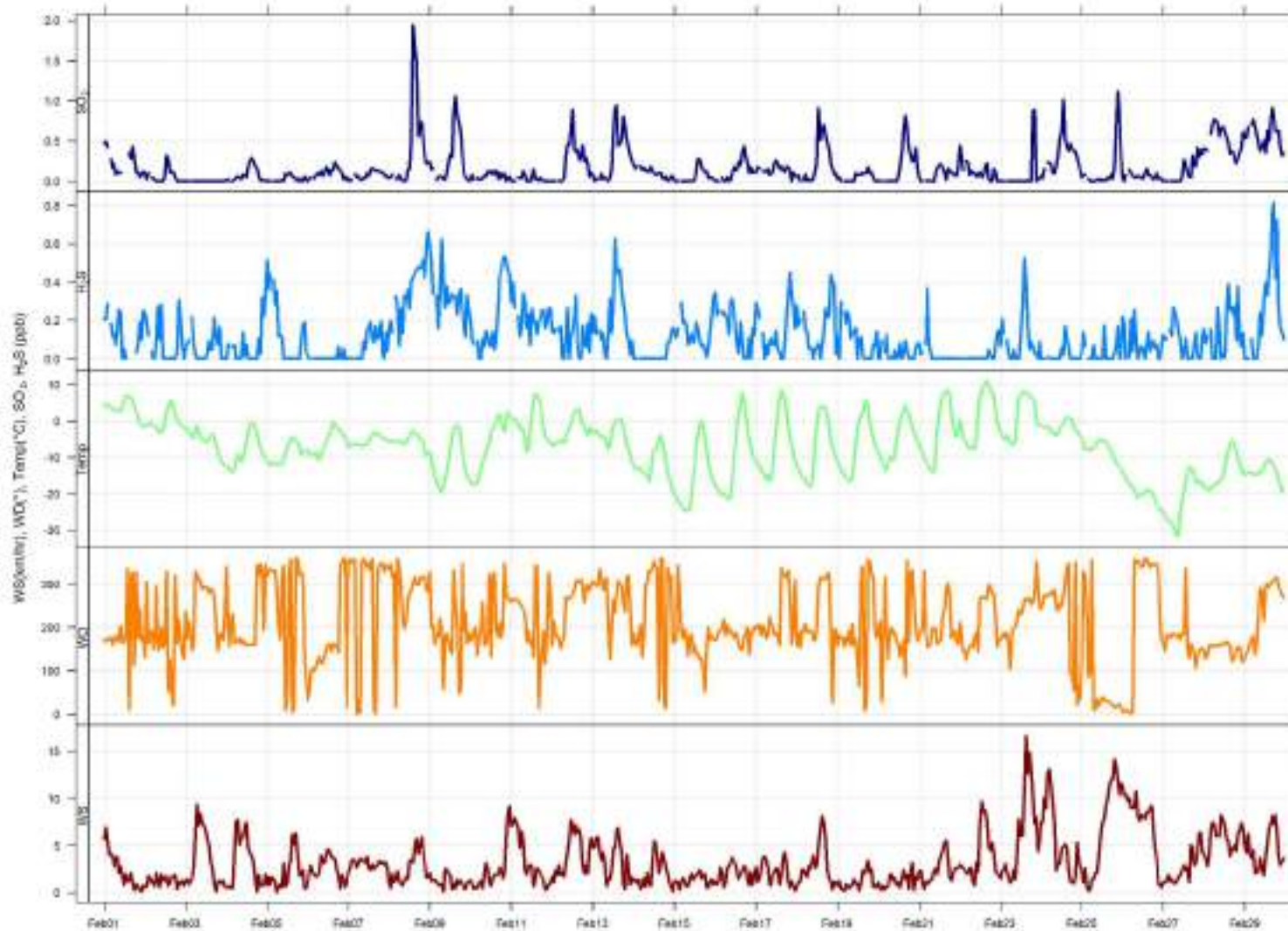


Smoky Heights February 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 0.6 %

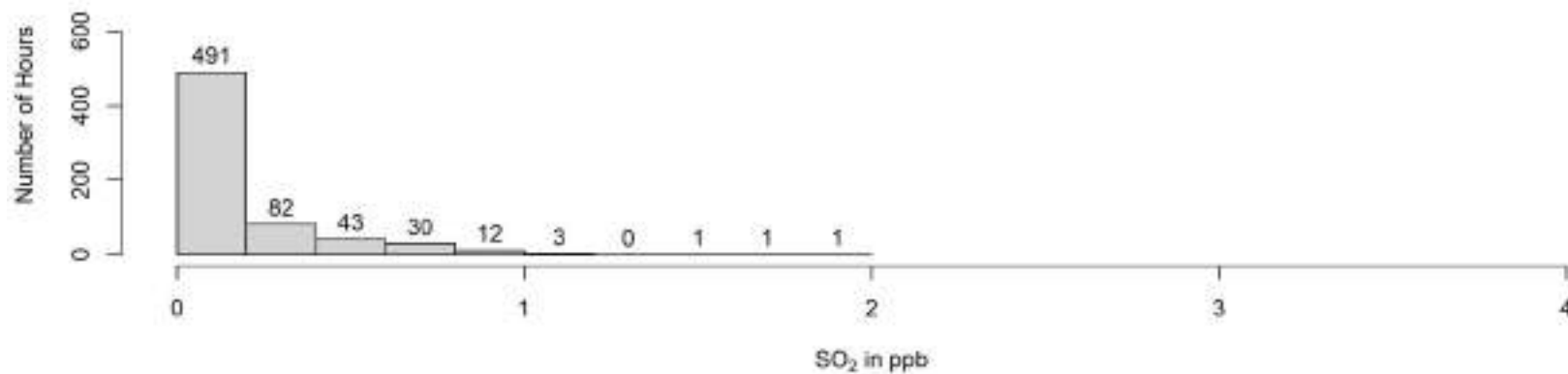
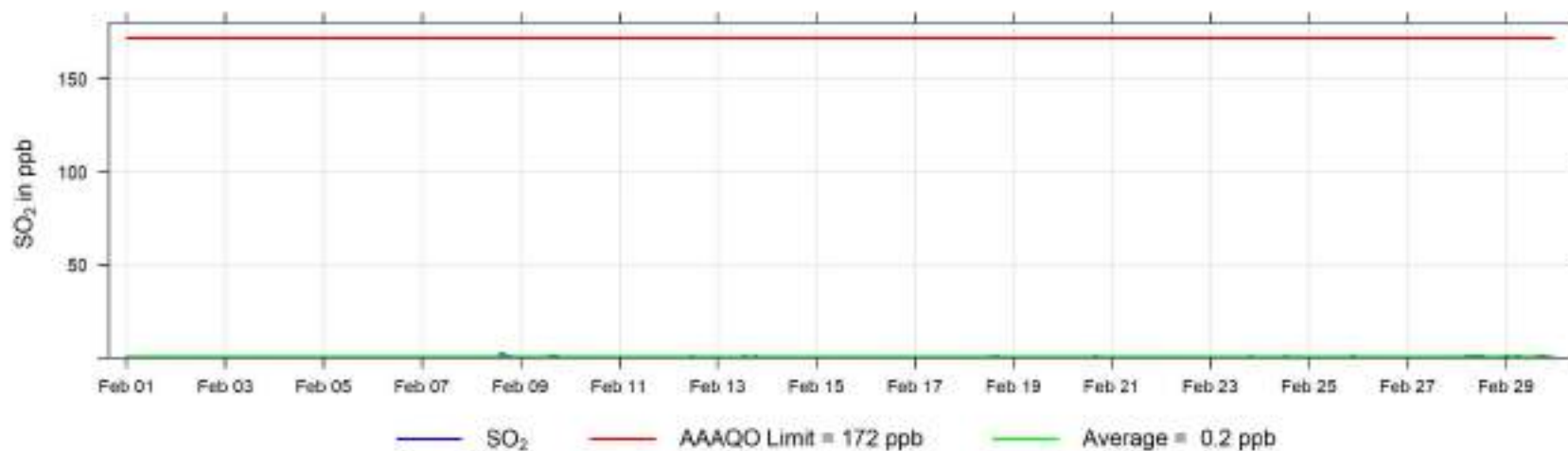
6 Valleyview Charts

The following pages include the charts and histograms for Valleyview Station

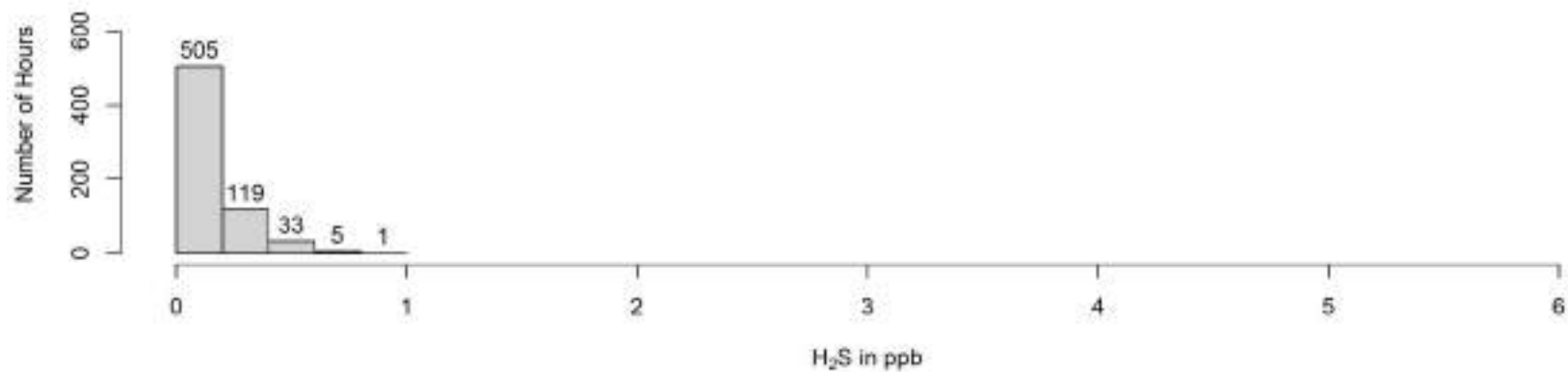
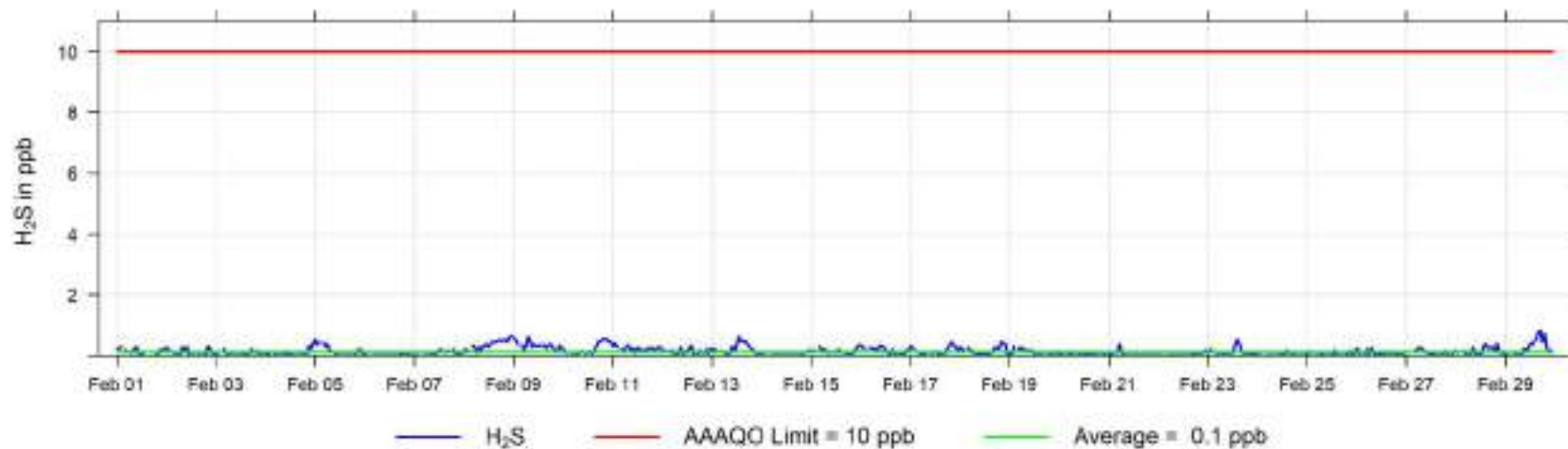
February 2024 Concentration Readings at Valleyview Station



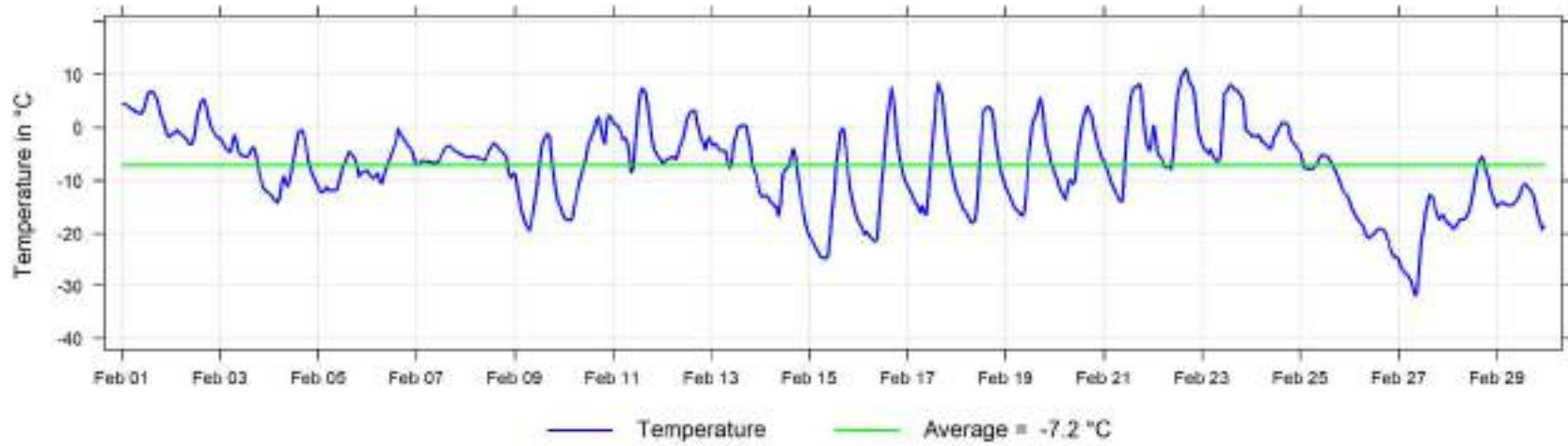
February 2024 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



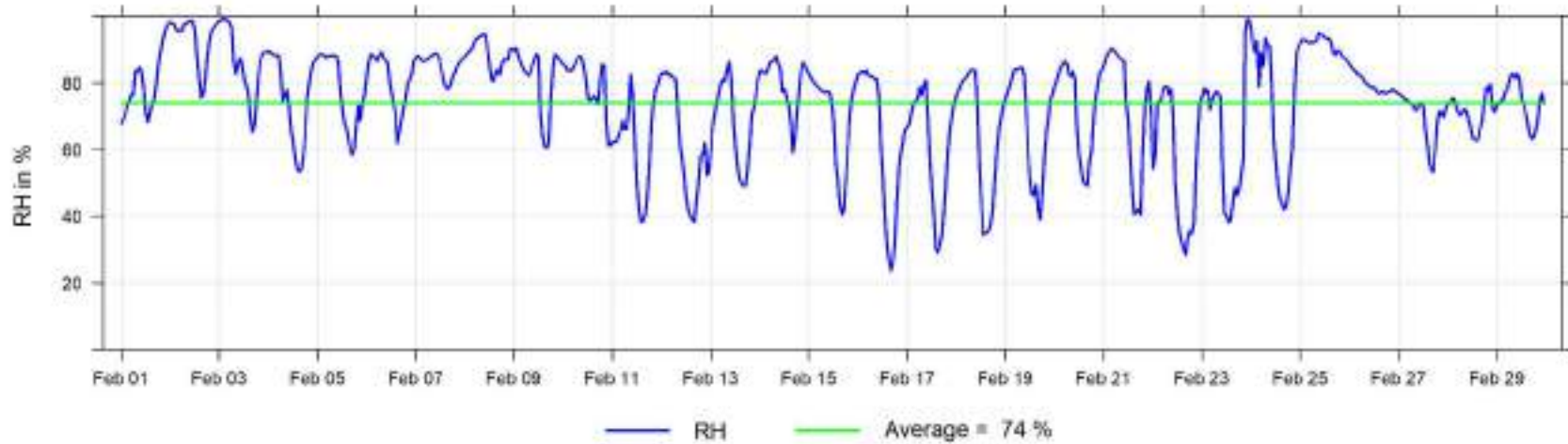
February 2024 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



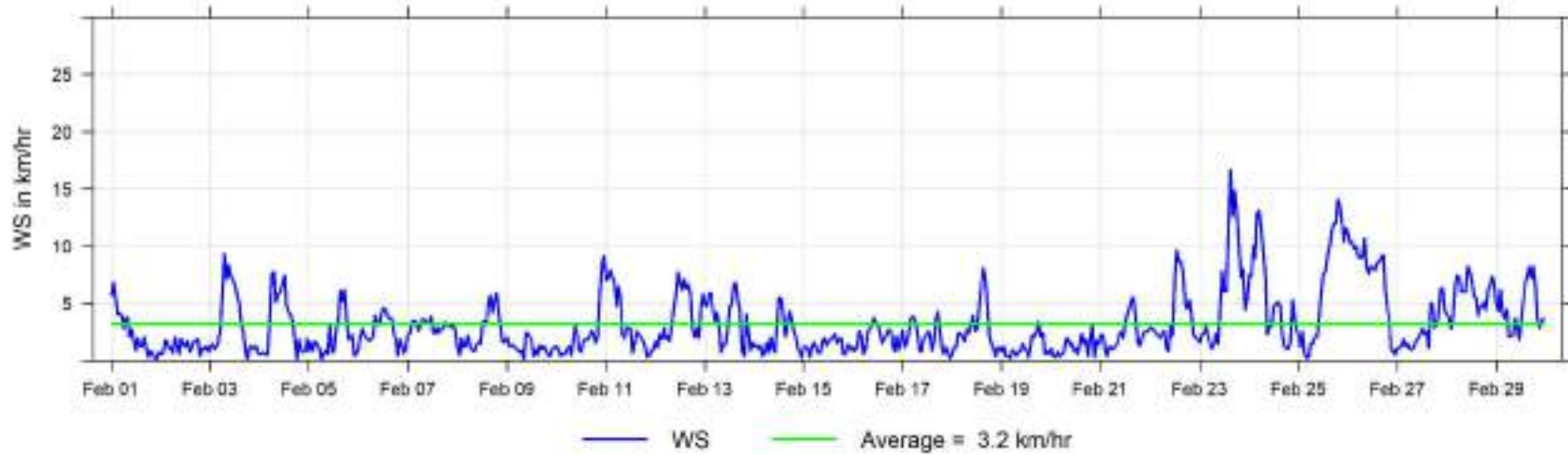
February 2024 Hourly Temperature Readings (in °C) at Valleyview



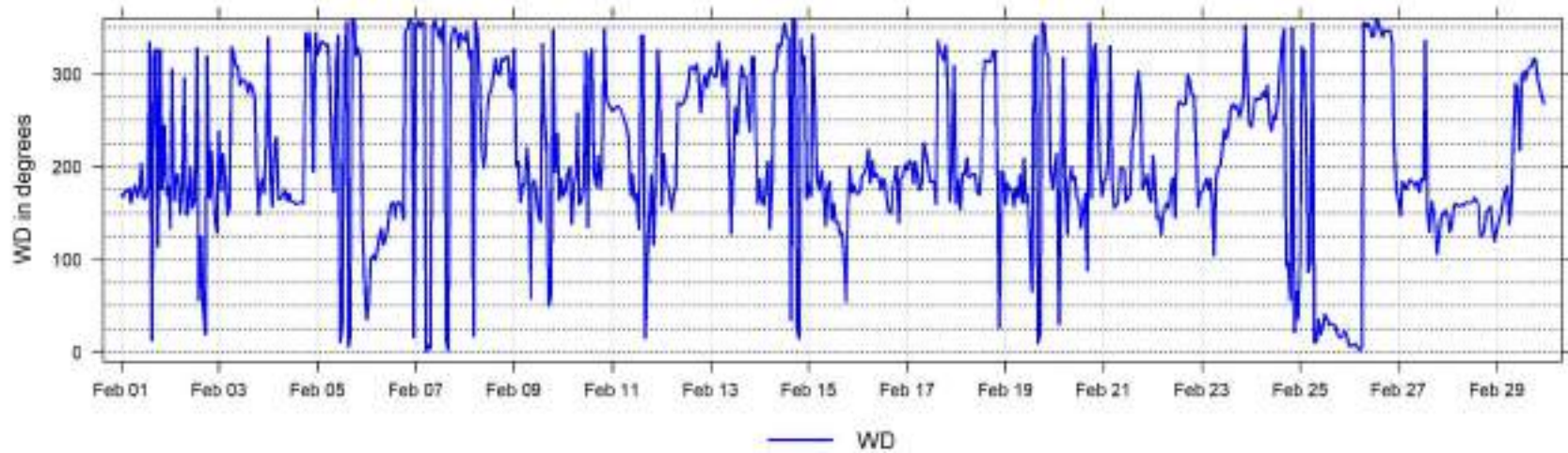
February 2024 Hourly Readings of Relative Humidity (in %) at Valleyview



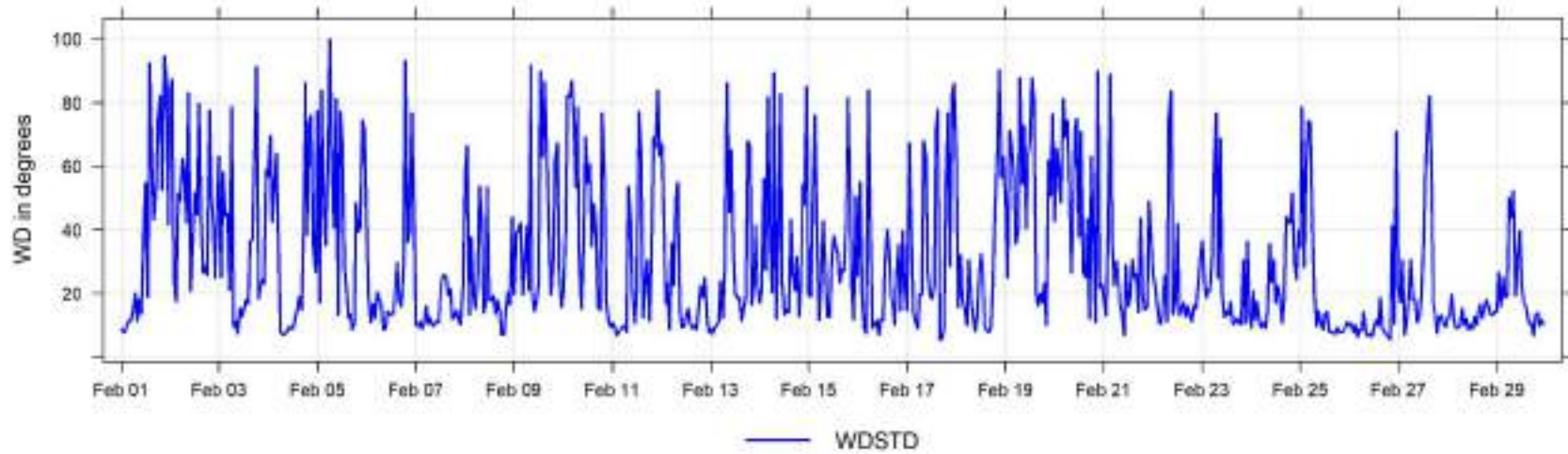
February 2024 Hourly Readings of Wind Speed (in km/hr) at Valleyview

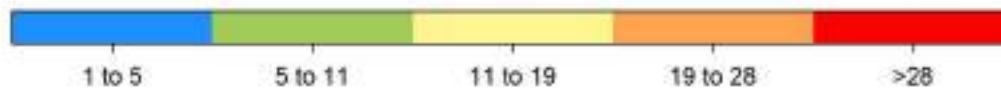
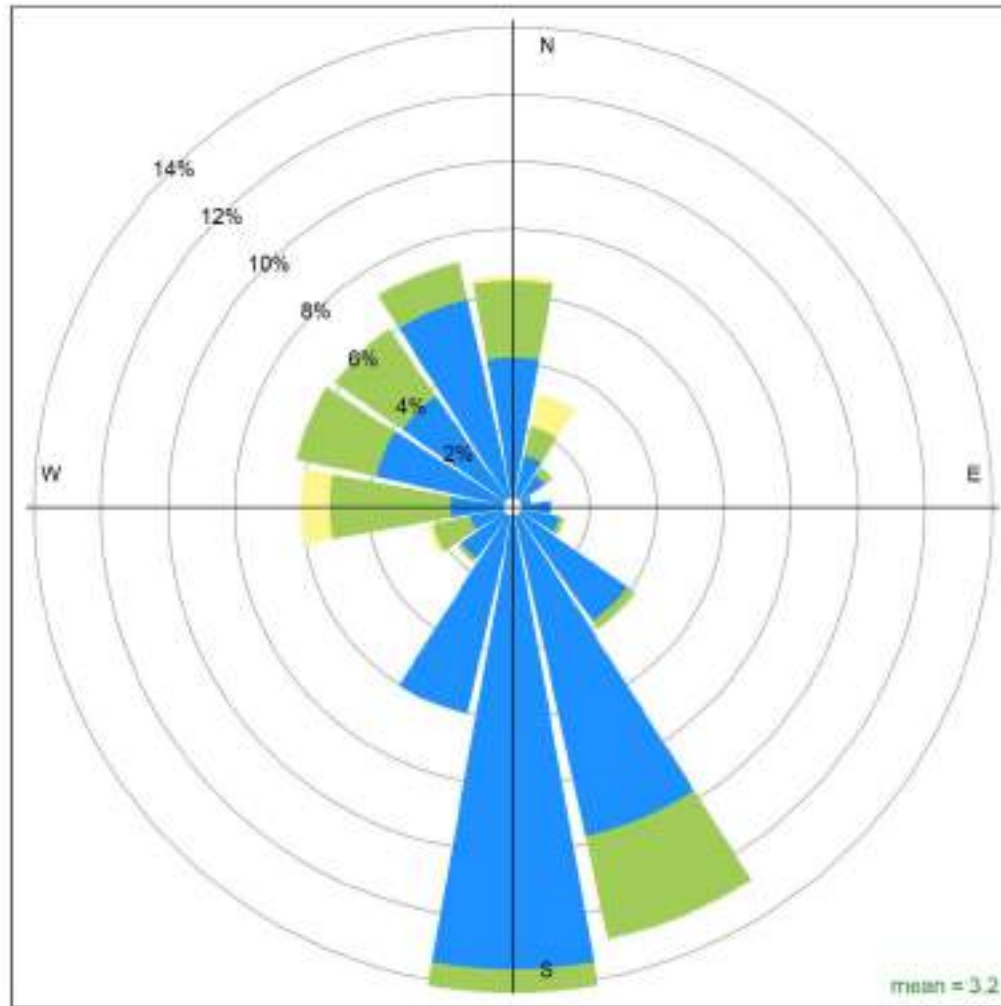


February 2024 Hourly Readings of Wind Direction (in degrees) at Valleyview



February 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Valleyview



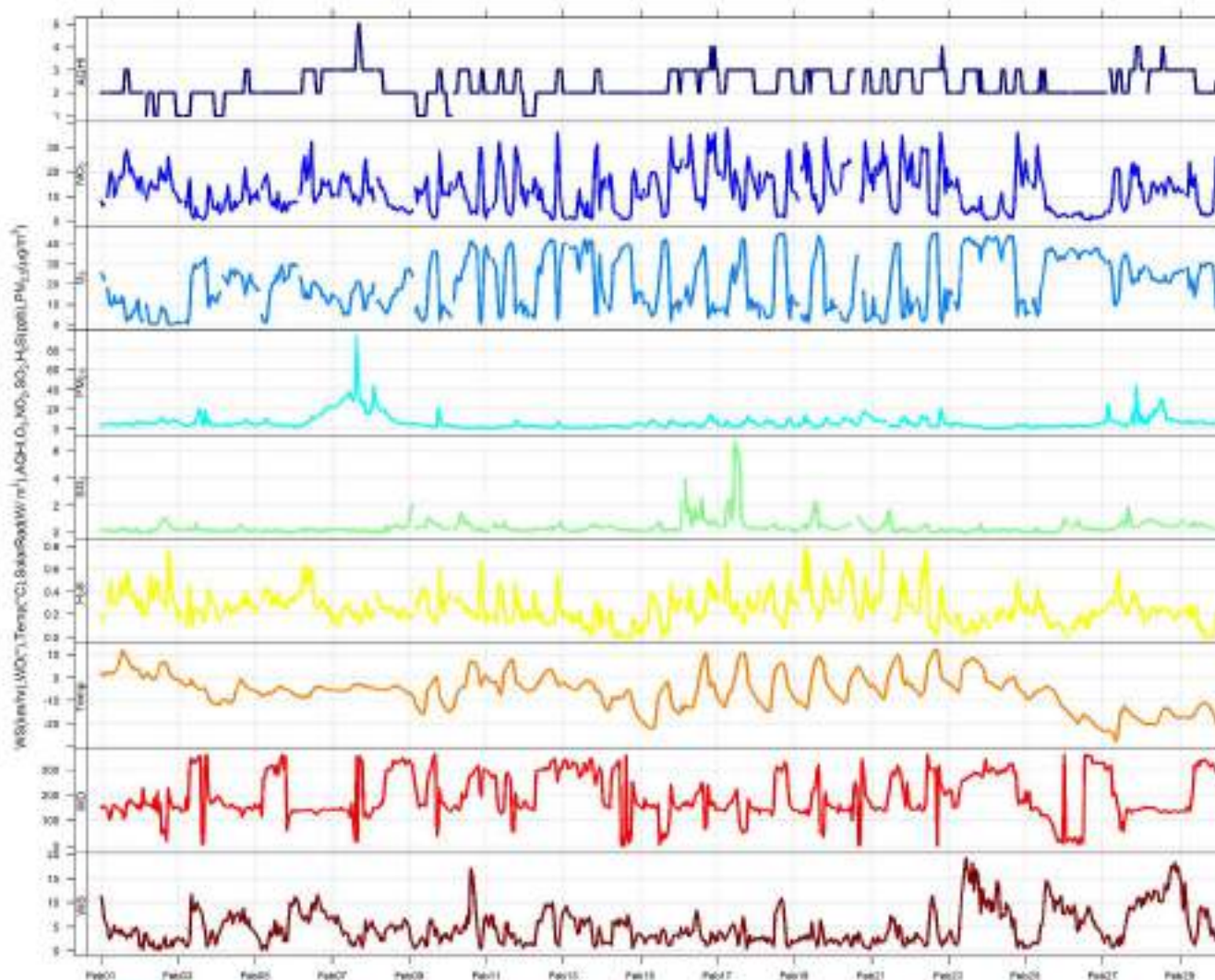


Valleyview February 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 19.7 %

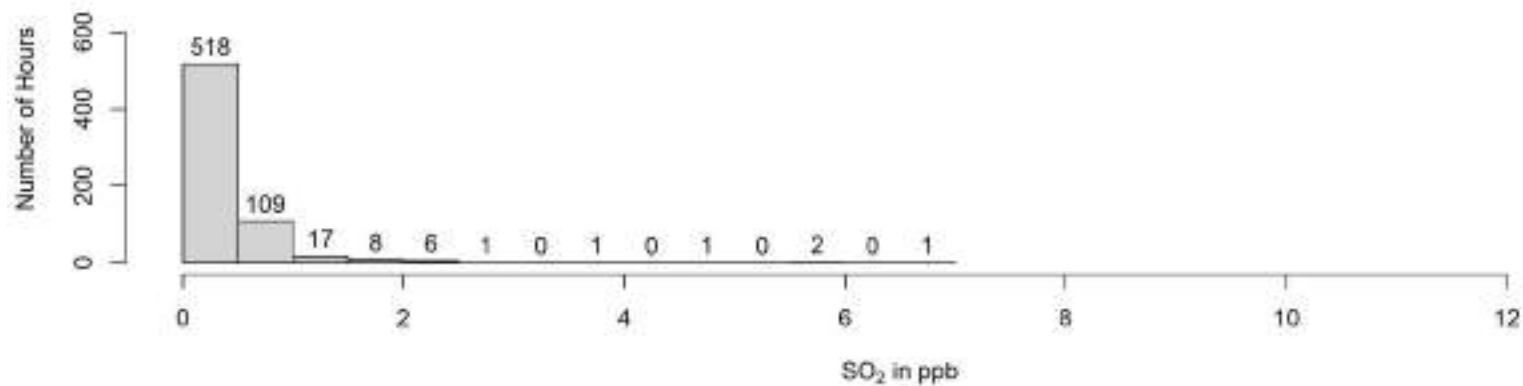
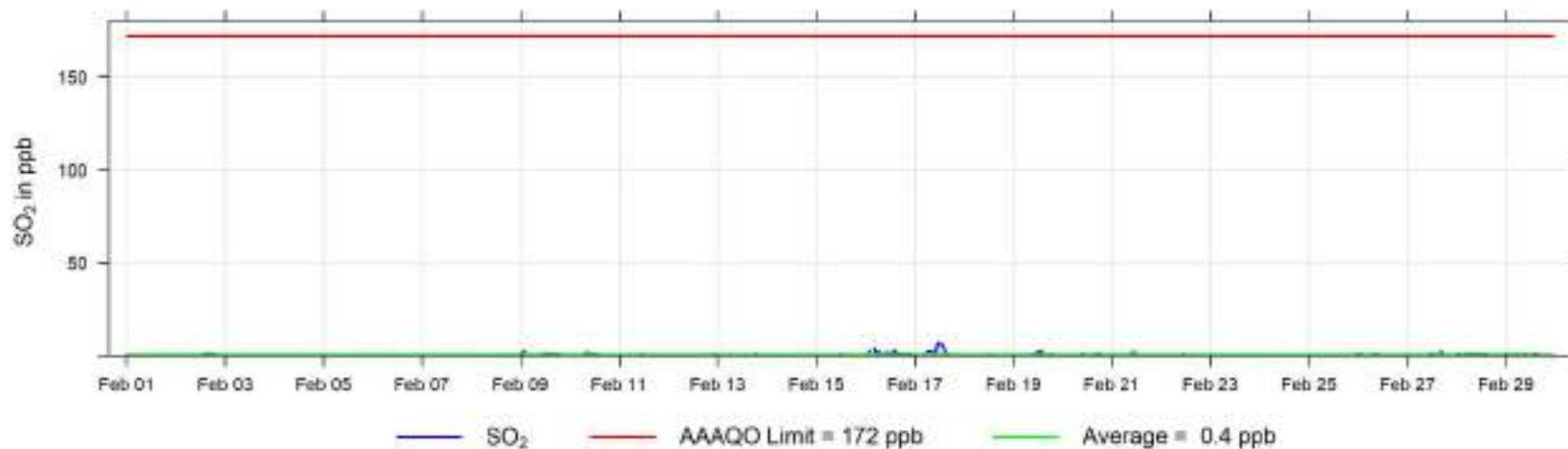
7 Fox Creek Charts

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

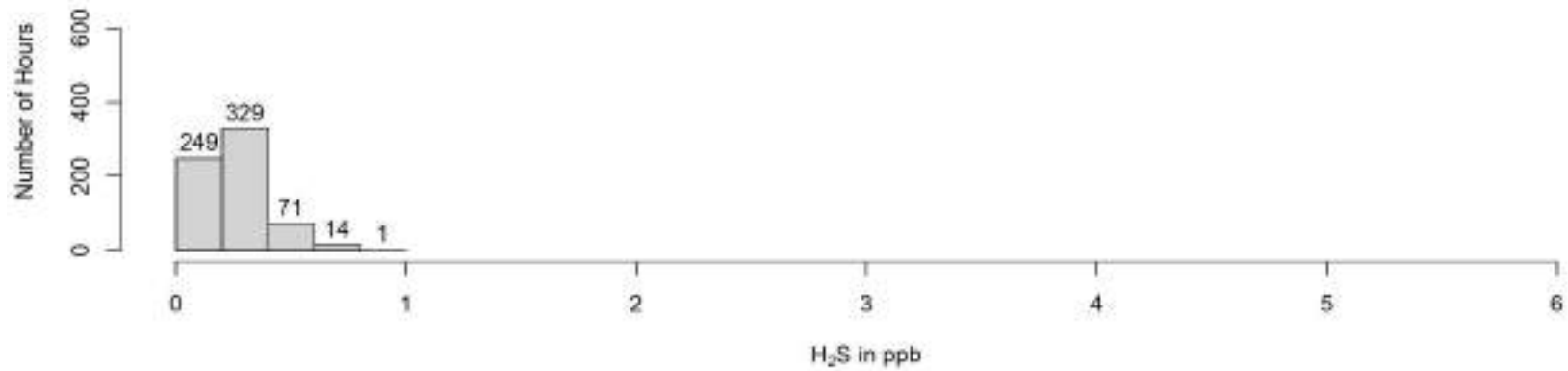
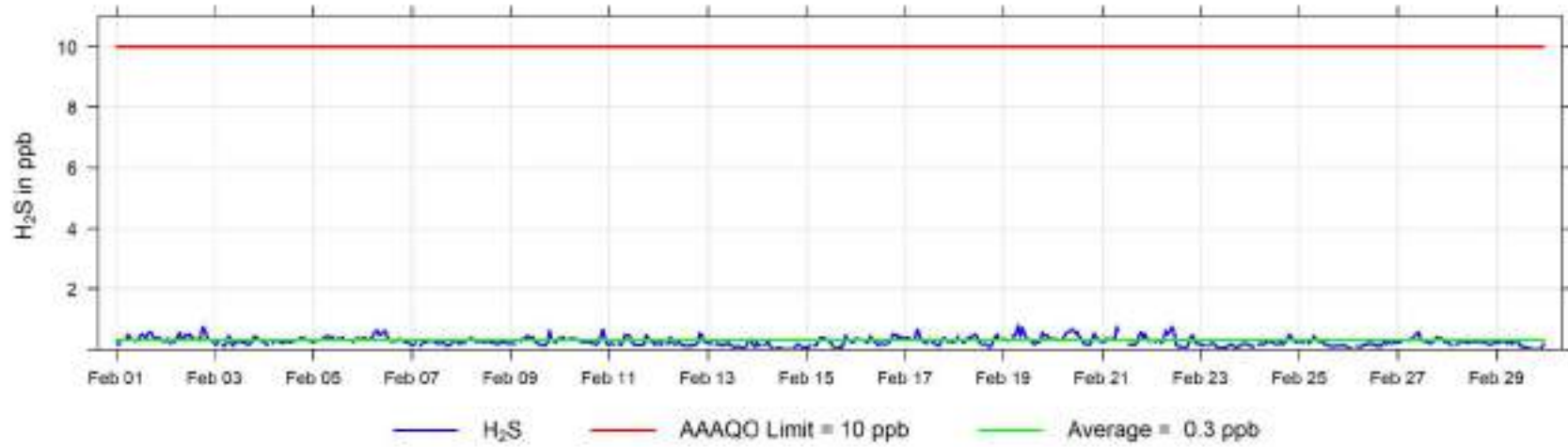
February 2024 Concentration Readings at Fox Creek Station



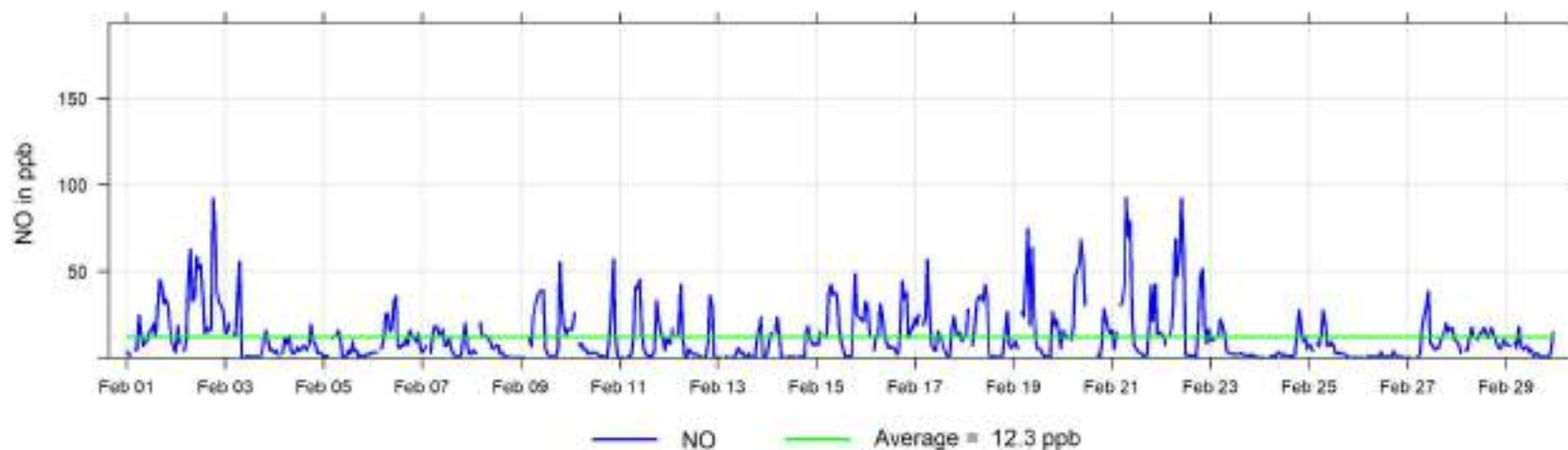
February 2024 Hourly Concentration Readings of SO₂ (in ppb) at Fox Creek



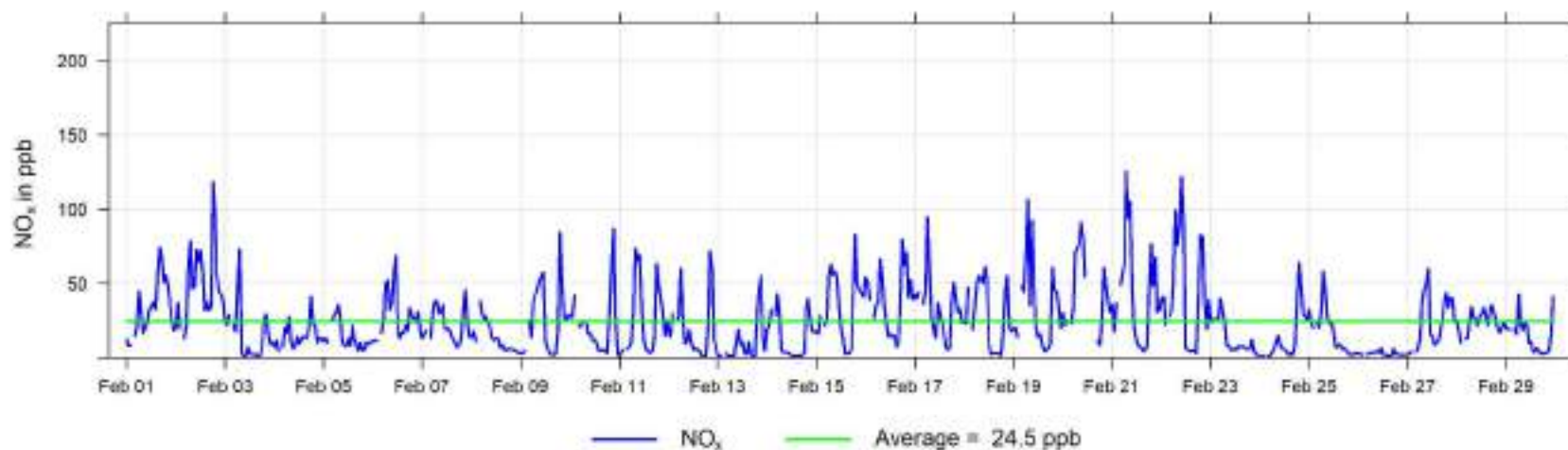
February 2024 Hourly Concentration Readings of H₂S (in ppb) at Fox Creek



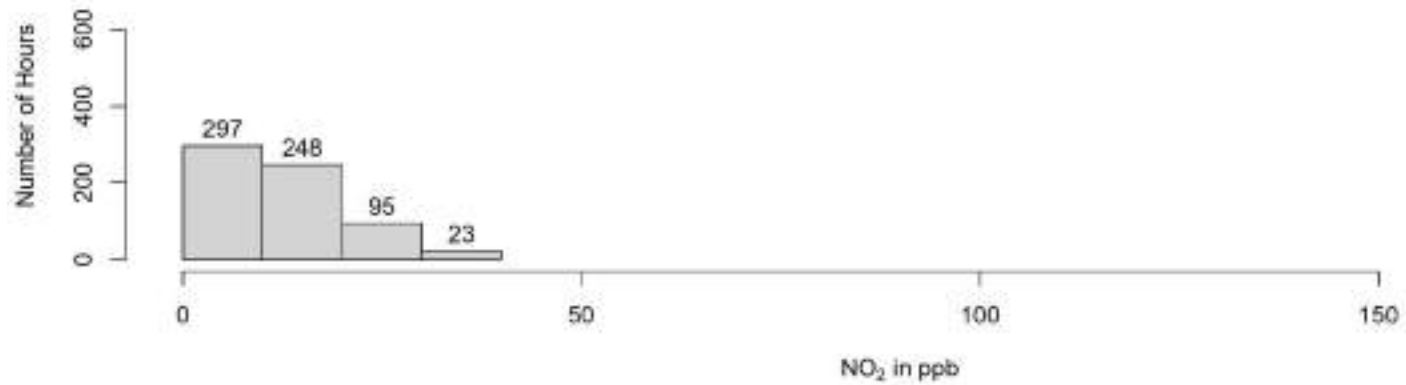
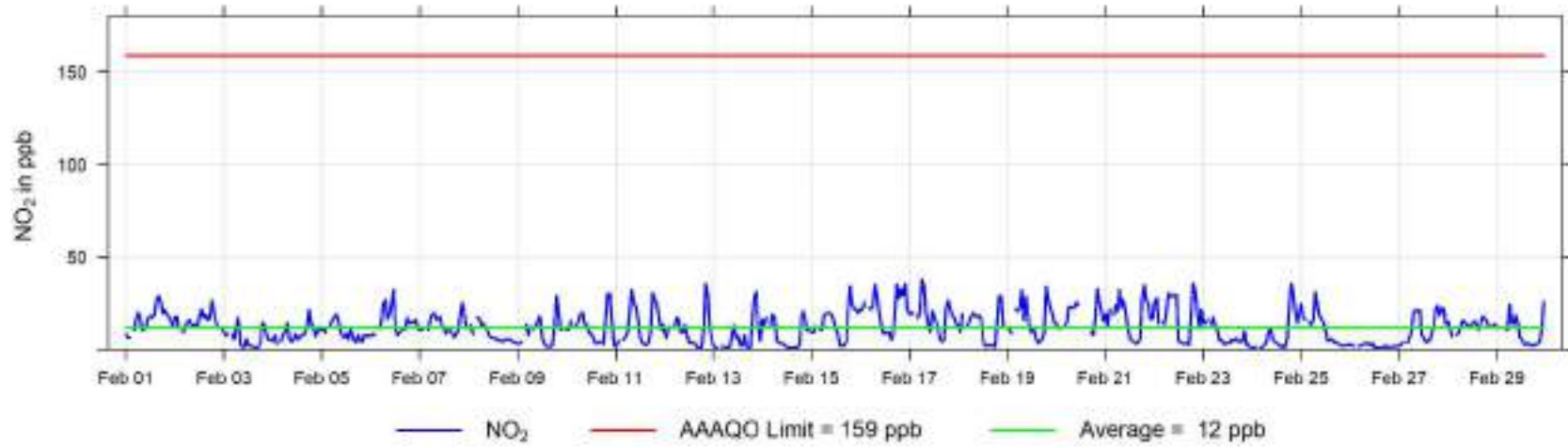
February 2024 Hourly Concentration Readings of NO (in ppb) at Fox Creek



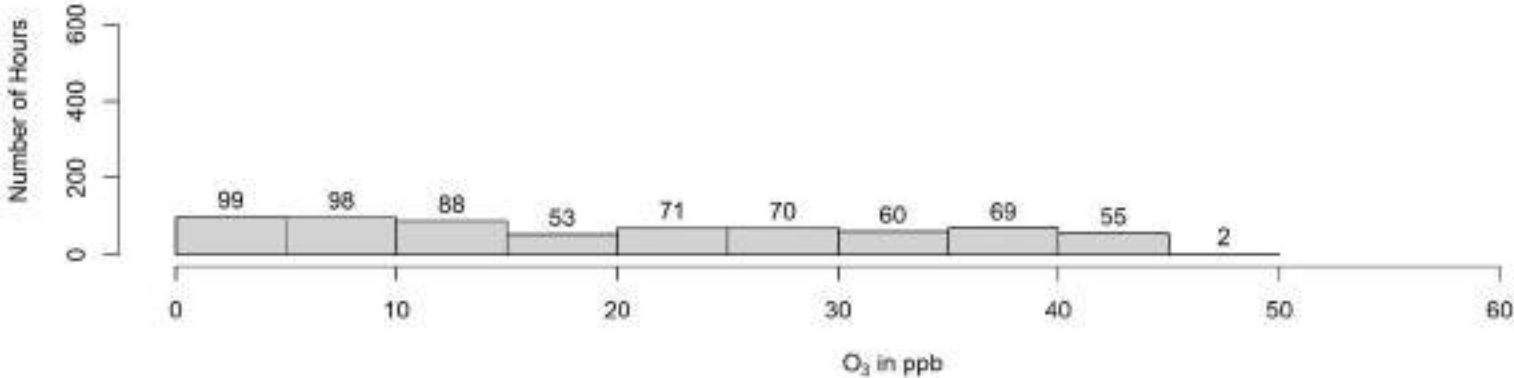
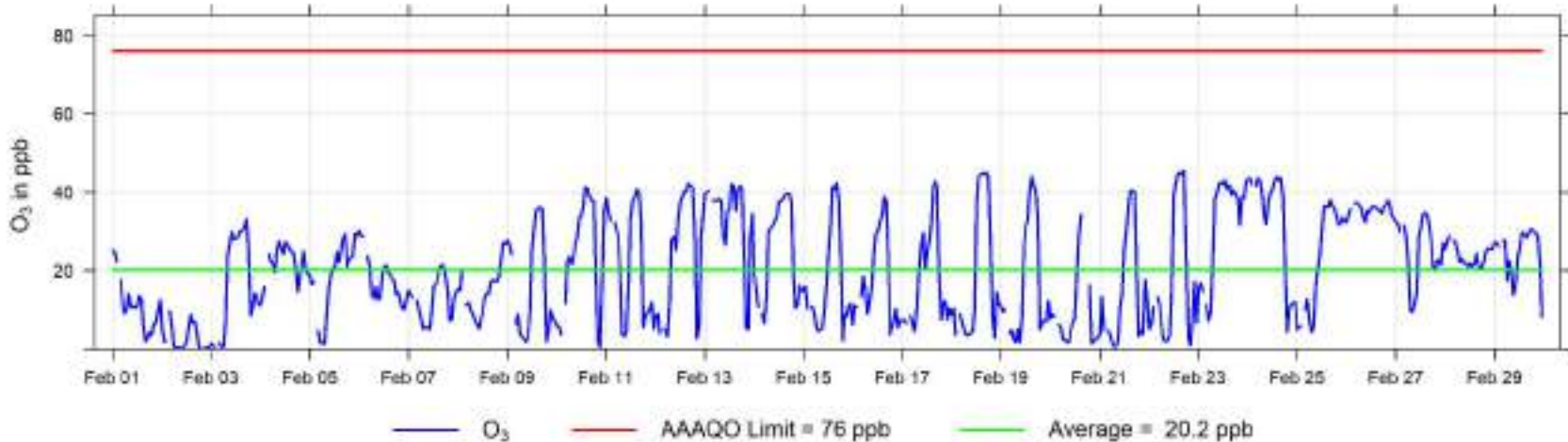
February 2024 Hourly Concentration Readings of NO_x (in ppb) at Fox Creek



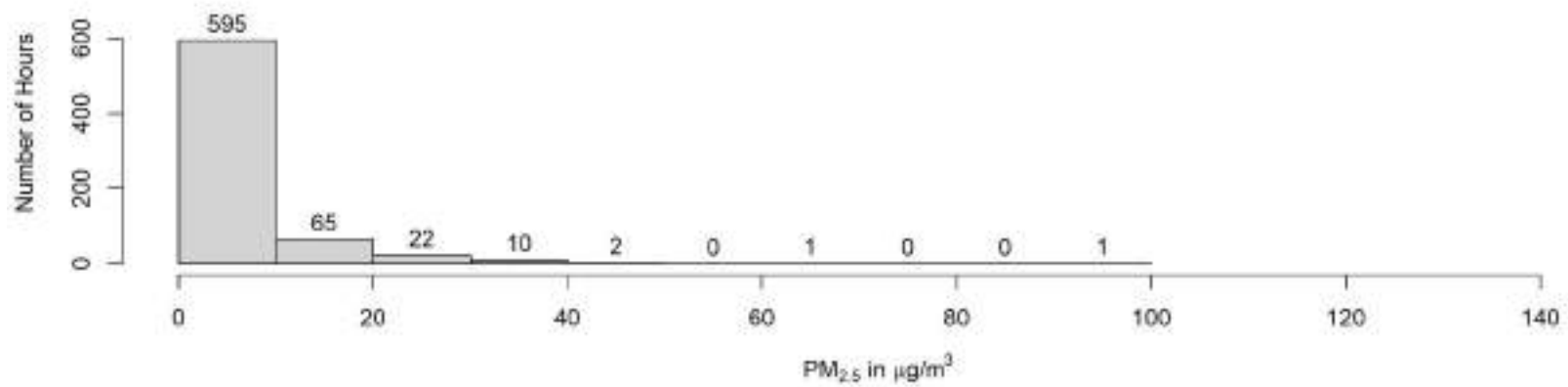
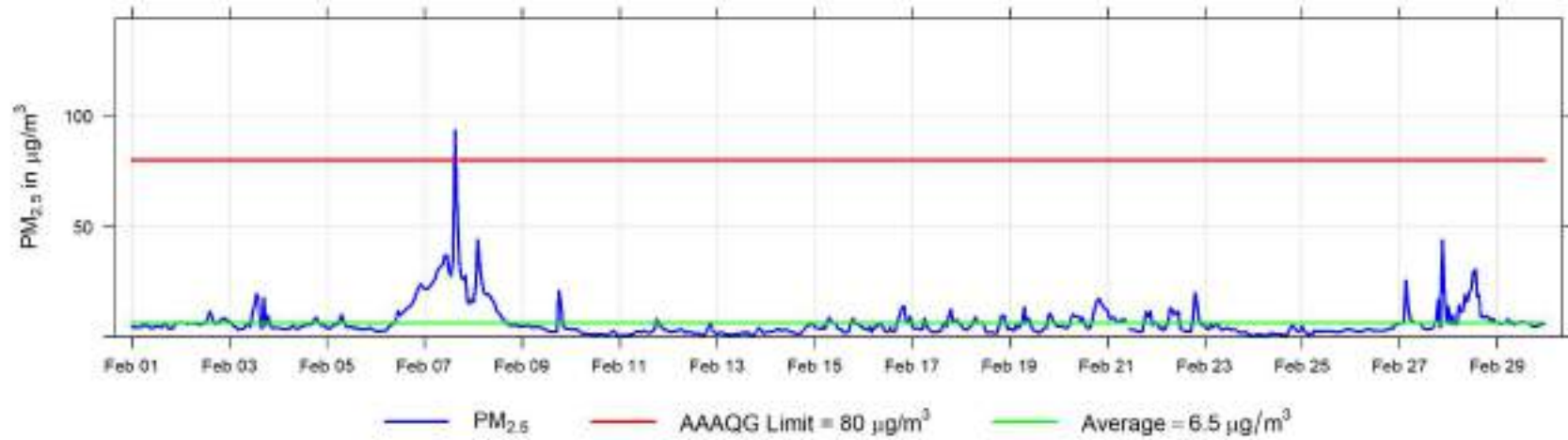
February 2024 Hourly Concentration Readings of NO₂ (in ppb) at Fox Creek



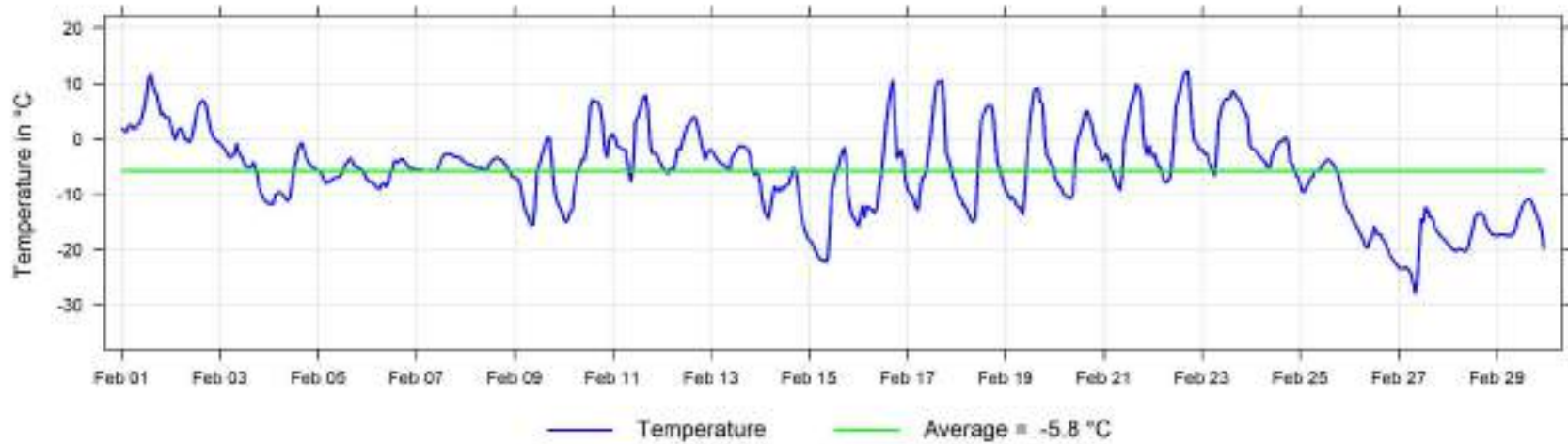
February 2024 Hourly Concentration Readings of O₃ (in ppb) at Fox Creek



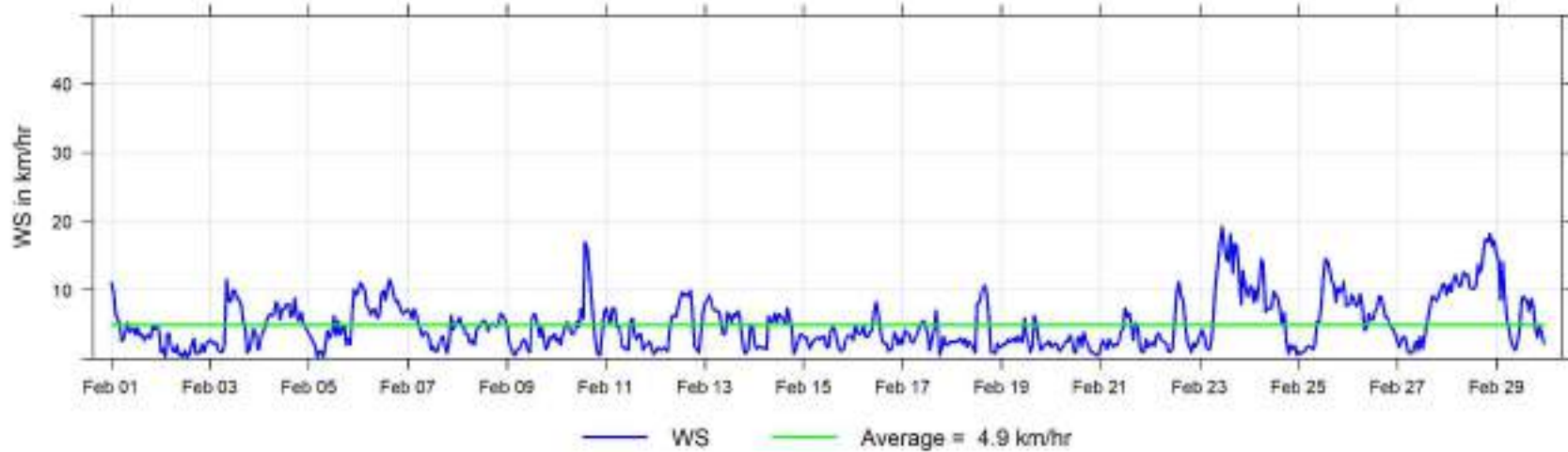
February 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Fox Creek



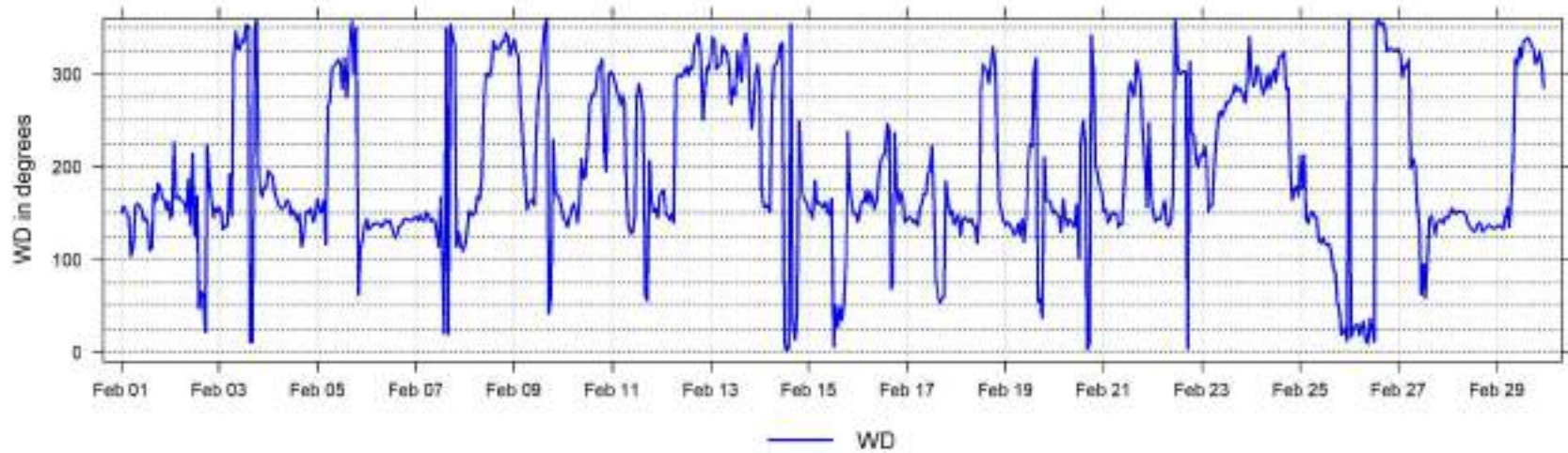
February 2024 Hourly Temperature Readings (in °C) at Fox Creek



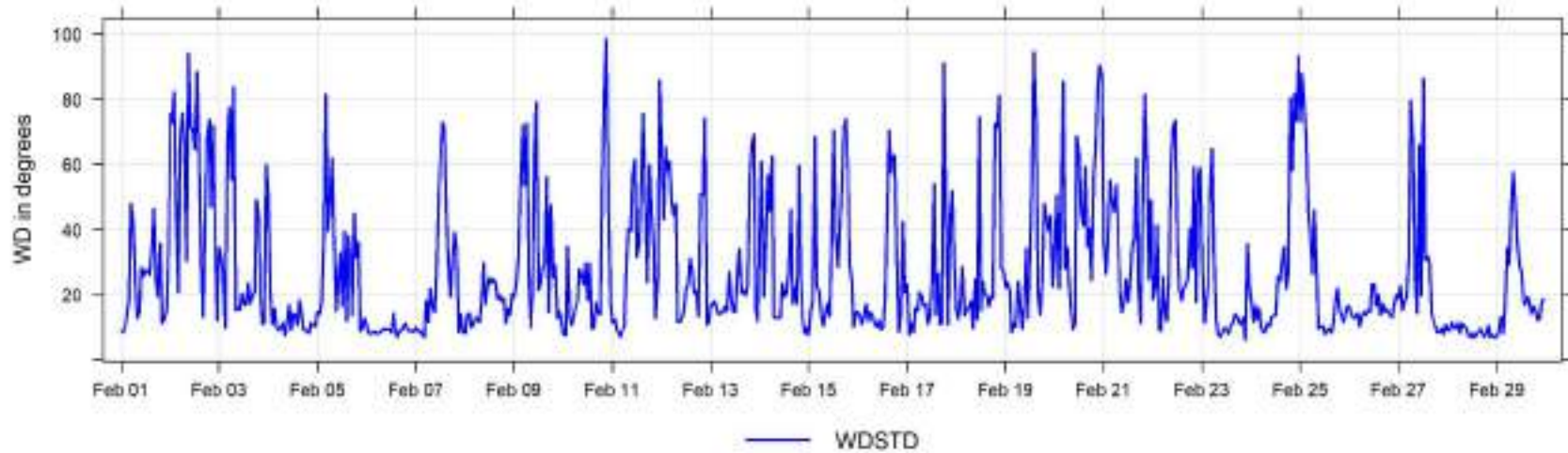
February 2024 Hourly Readings of Wind Speed (in km/hr) at Fox Creek

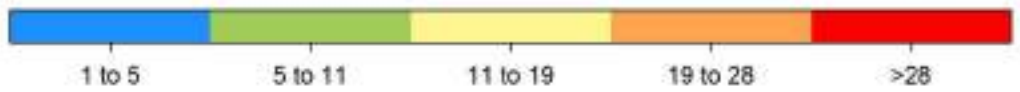
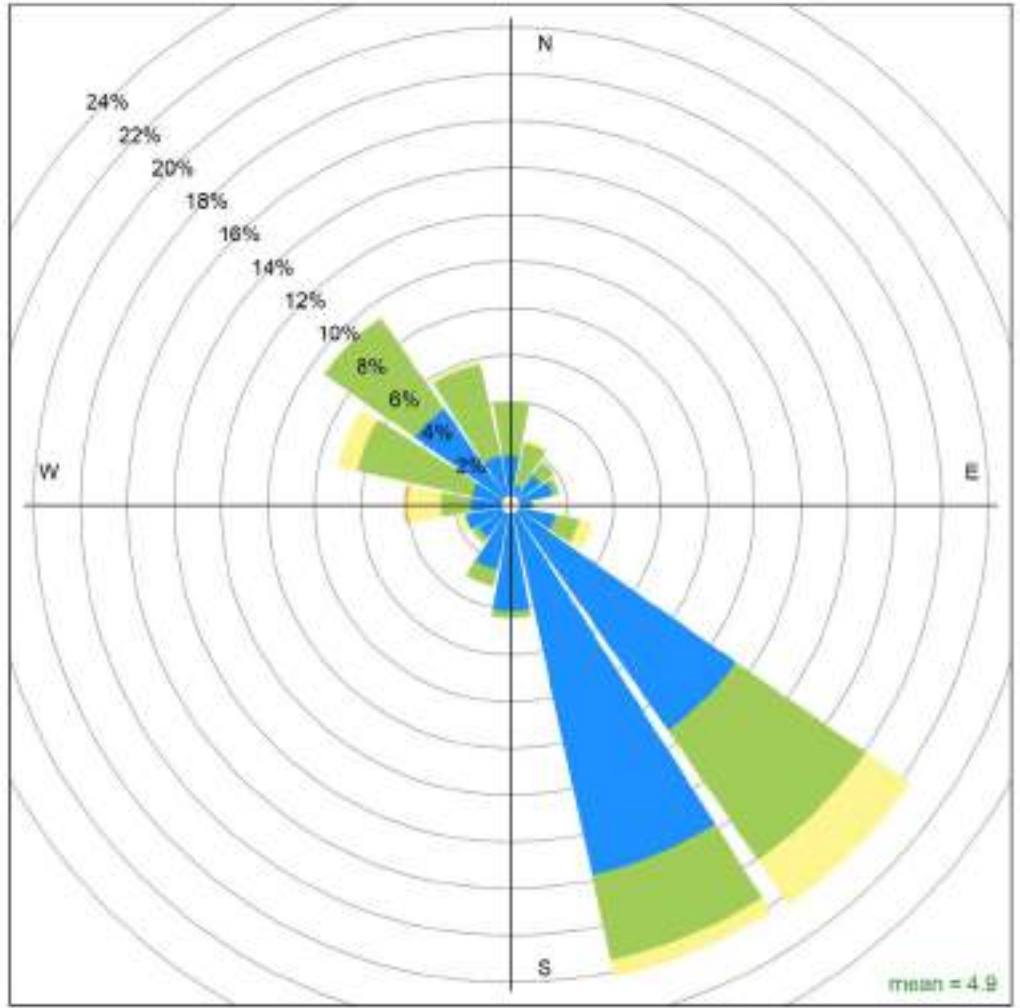


February 2024 Hourly Readings of Wind Direction (in degrees) at Fox Creek



February 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Fox Creek



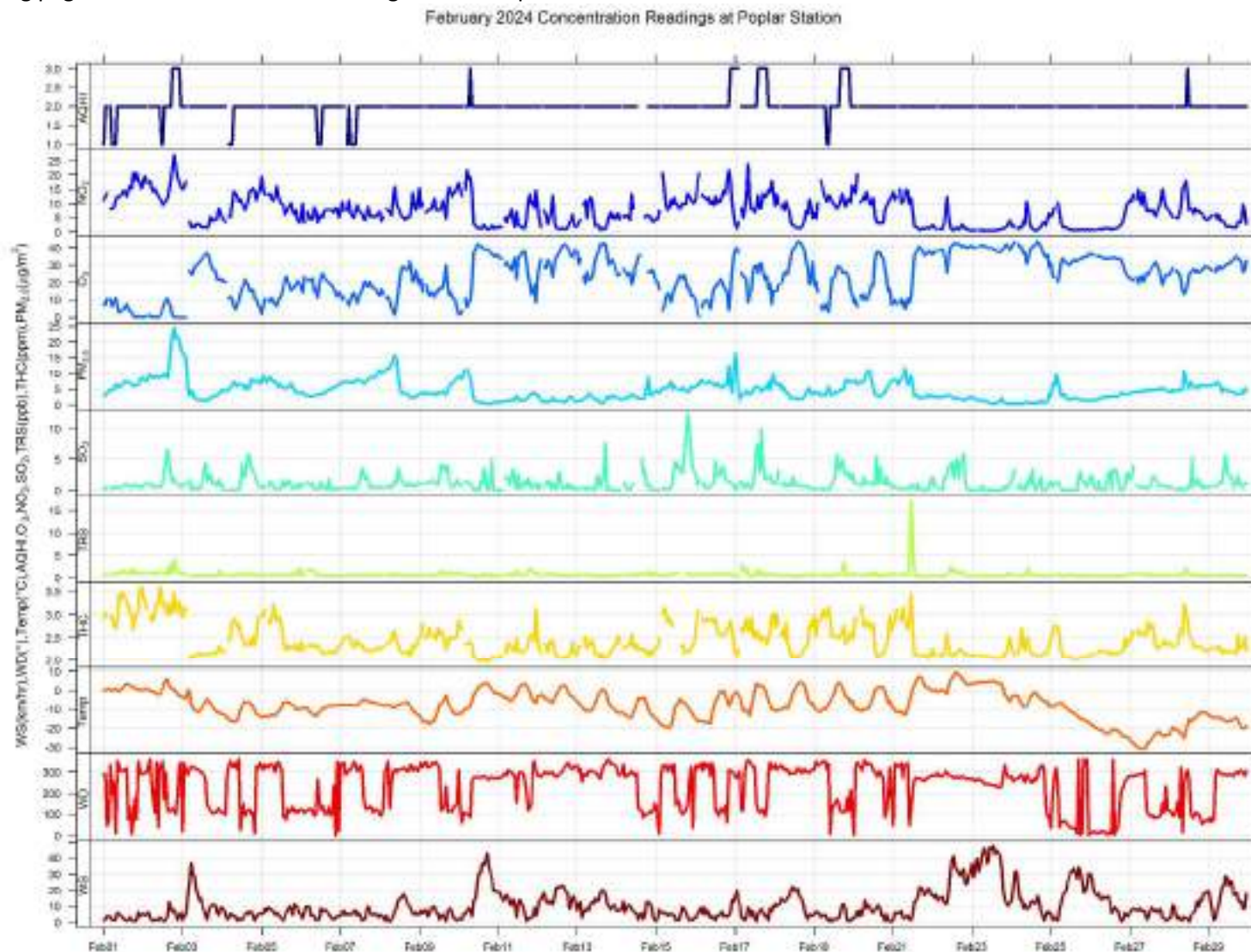


Fox Creek February 2024 Wind Rose, wind speed in km/hr

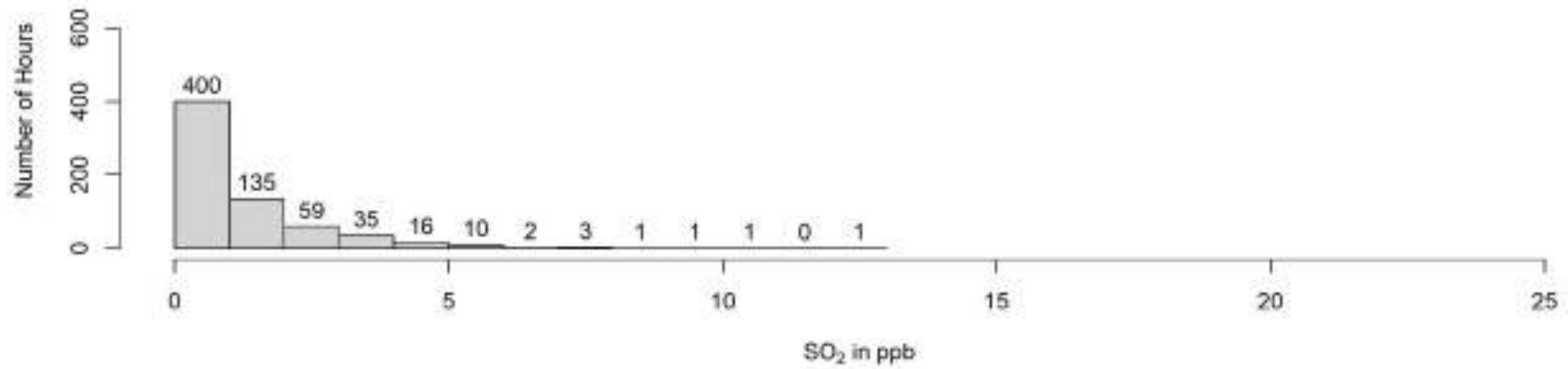
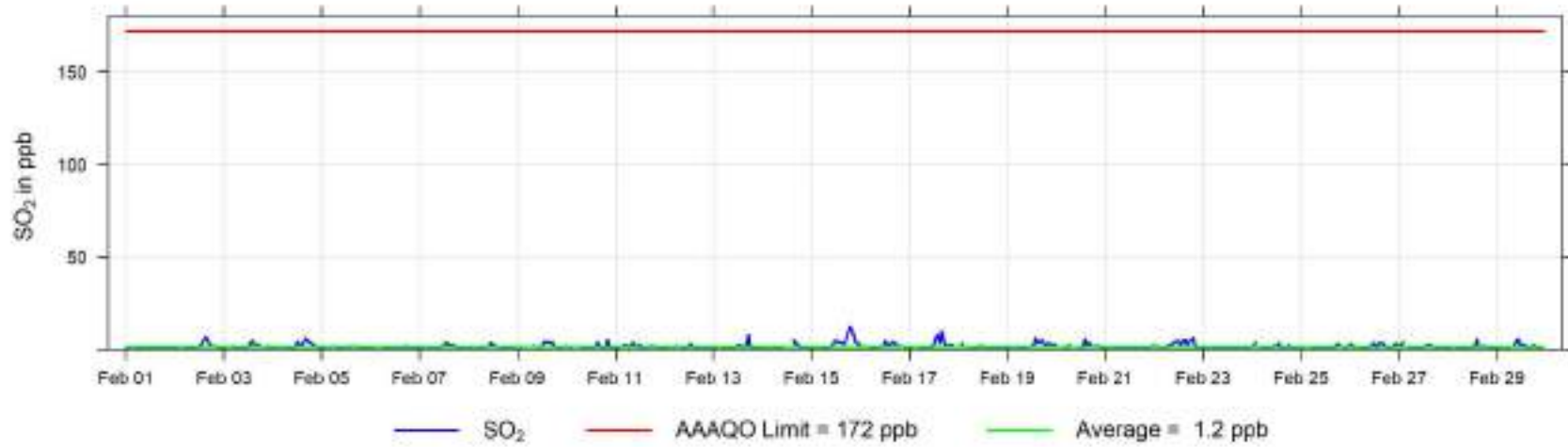
Calms (<1km/hr) = 7.9 %

8 Poplar (Portable) Charts

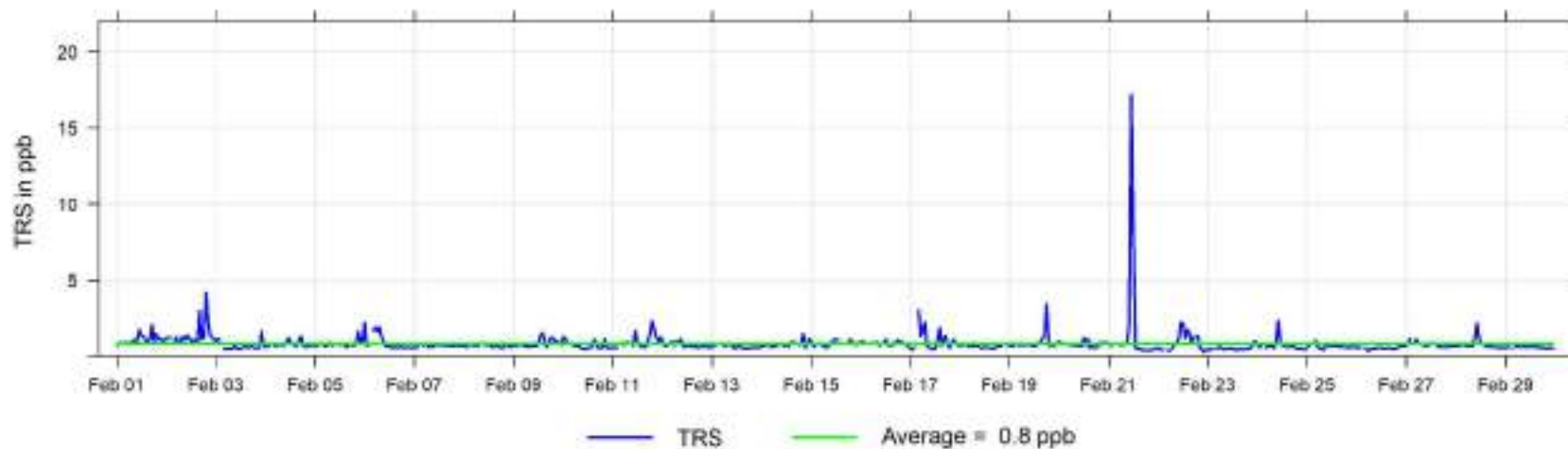
The following pages include the charts and histograms for Poplar Portable Station



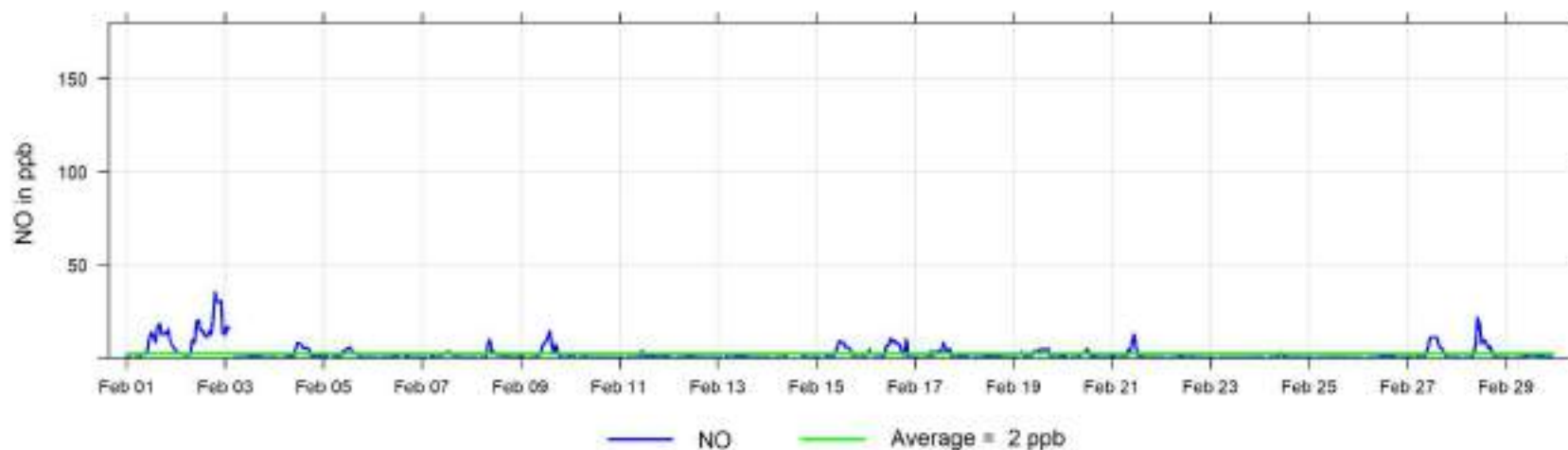
February 2024 Hourly Concentration Readings of SO₂ (in ppb) at Poplar



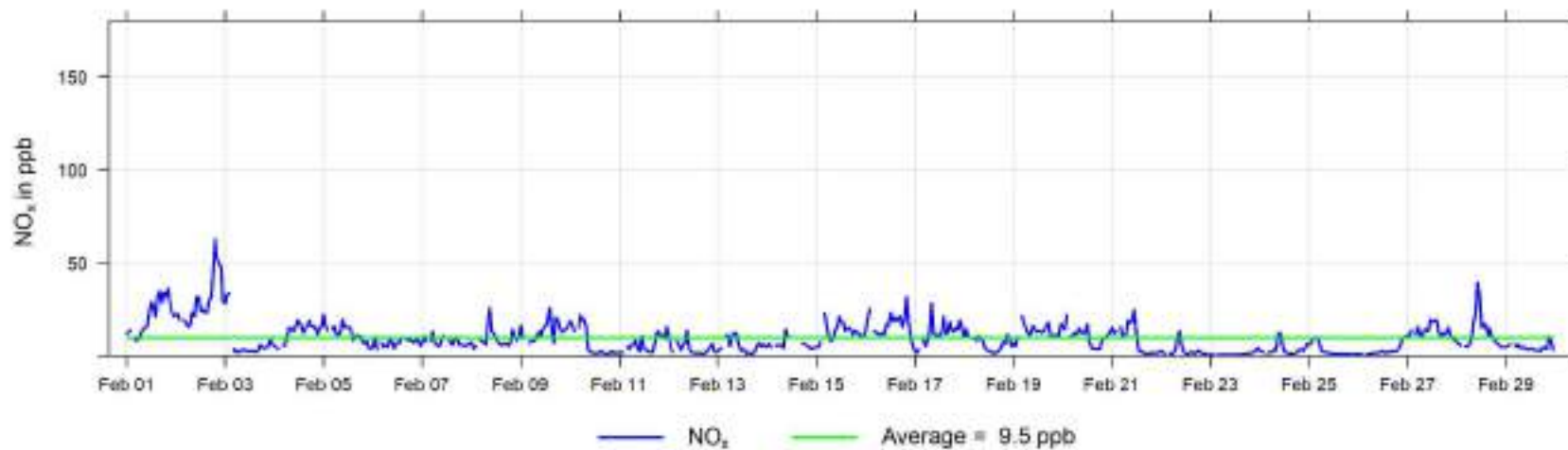
February 2024 Hourly Concentration Readings of TRS (in ppb) at Poplar



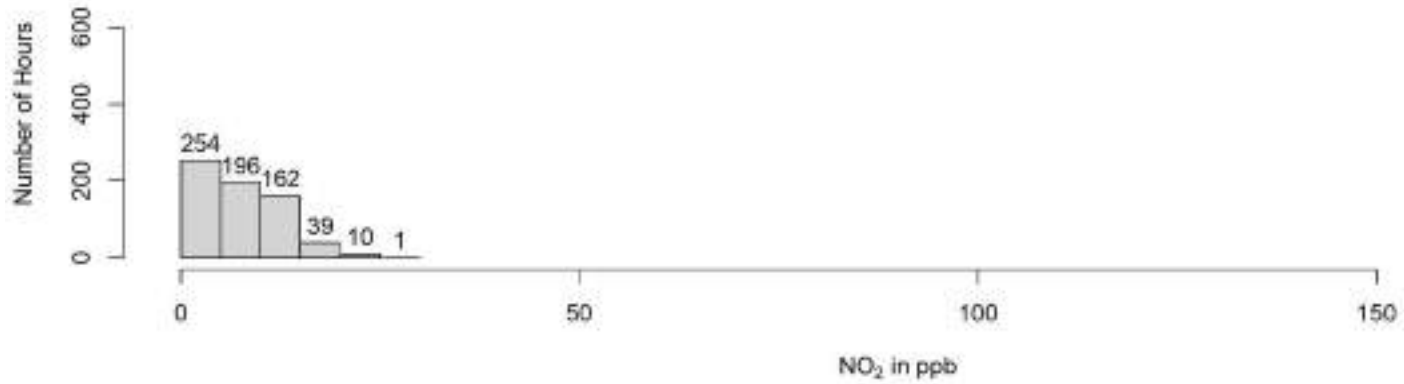
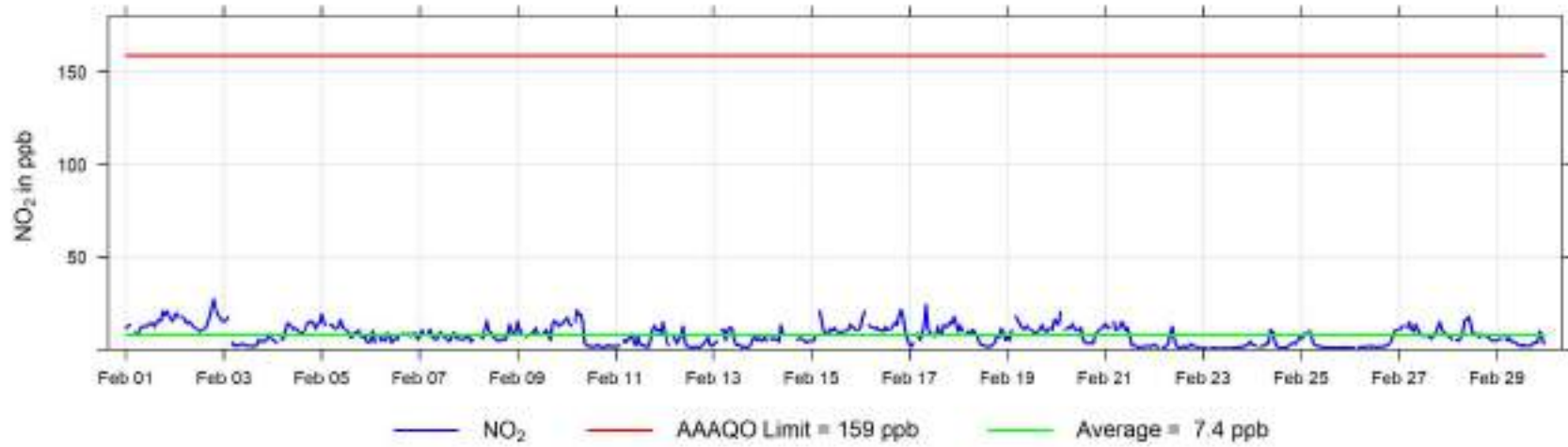
February 2024 Hourly Concentration Readings of NO (in ppb) at Poplar



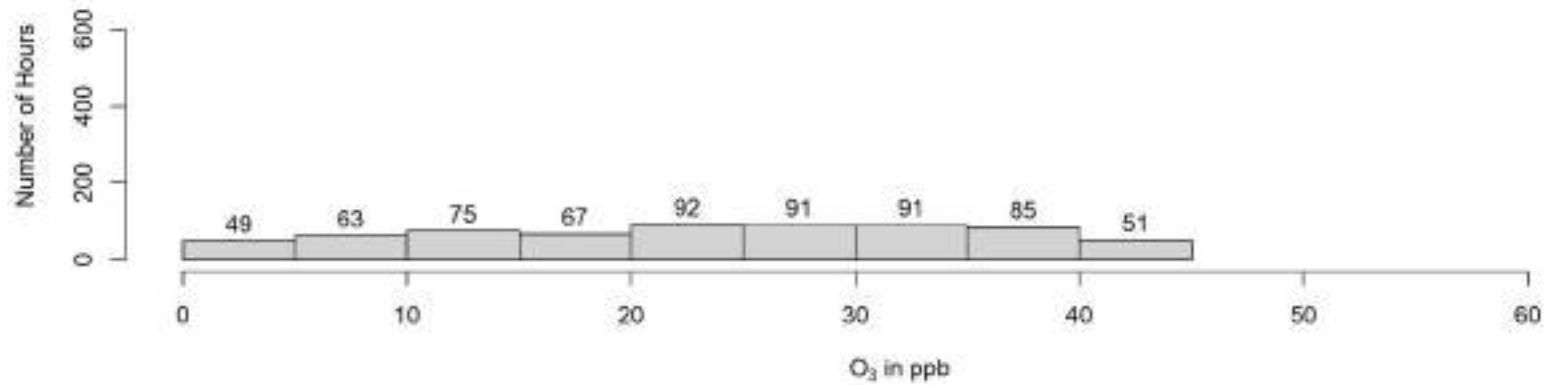
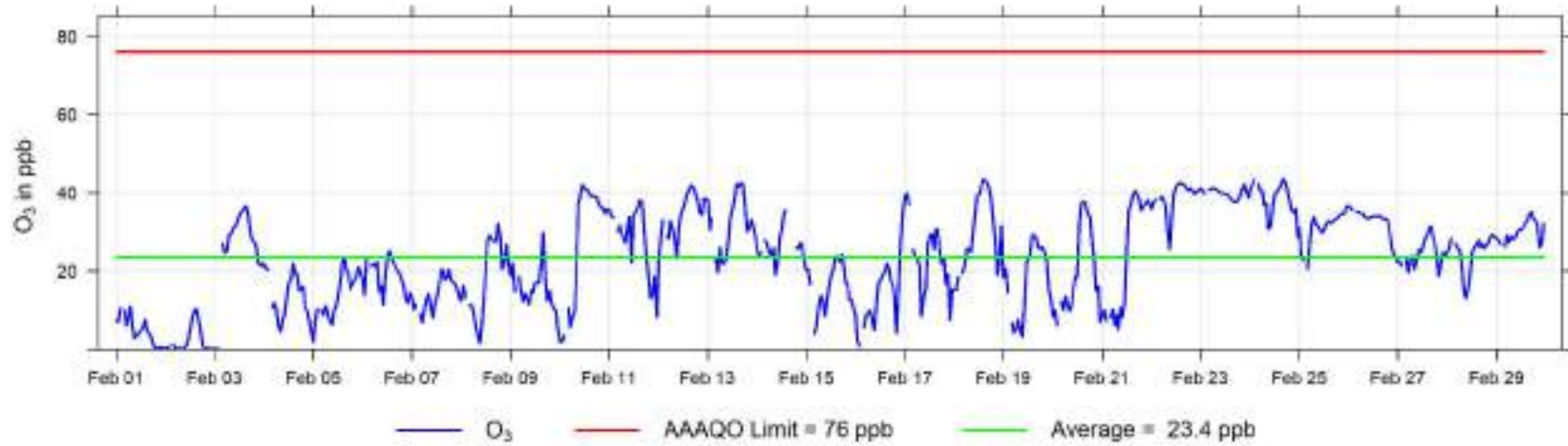
February 2024 Hourly Concentration Readings of NO_x (in ppb) at Poplar



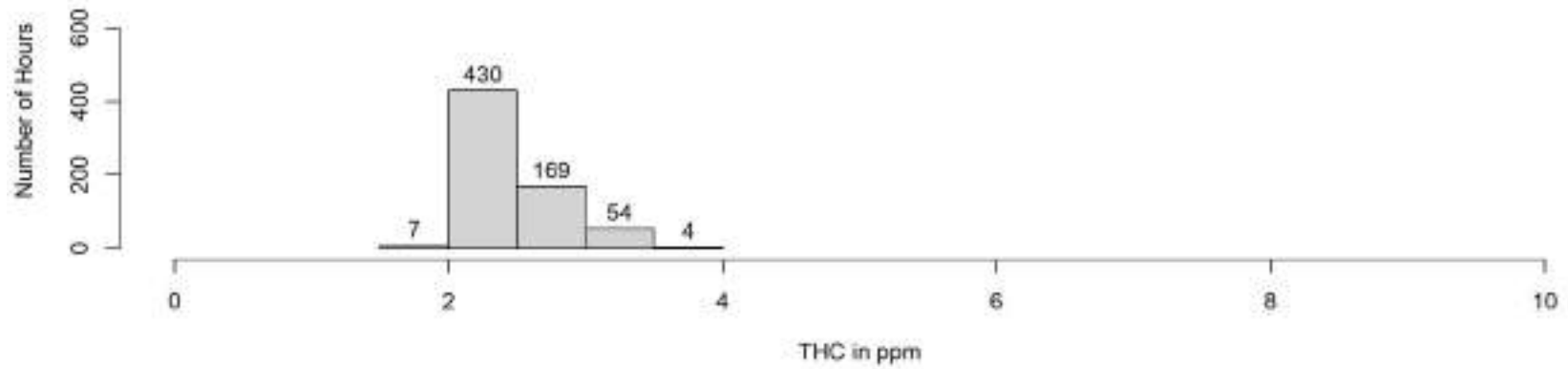
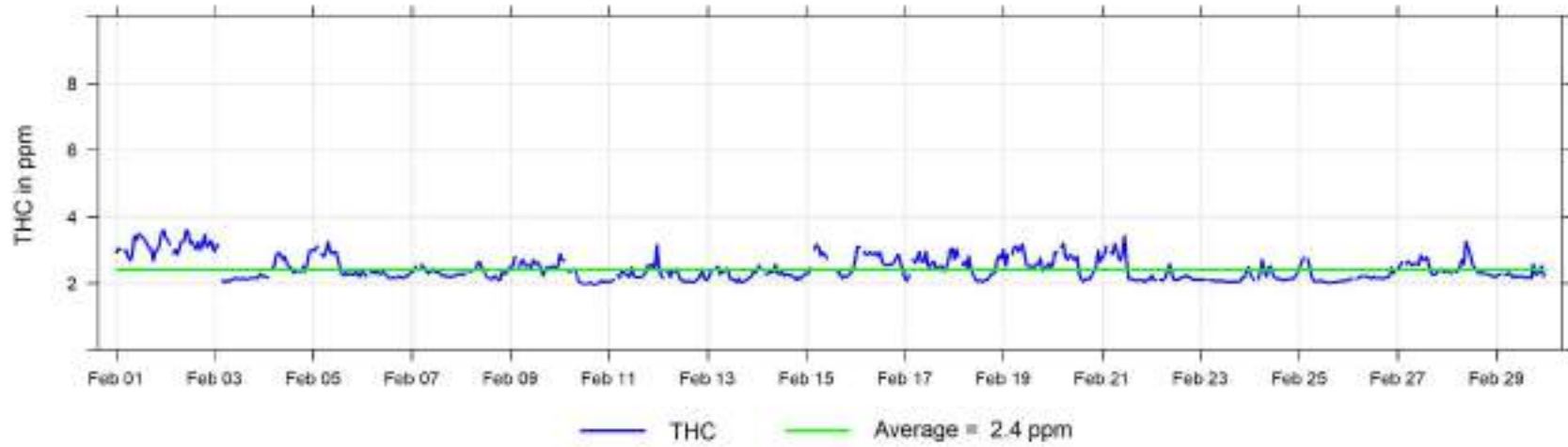
February 2024 Hourly Concentration Readings of NO₂ (in ppb) at Poplar



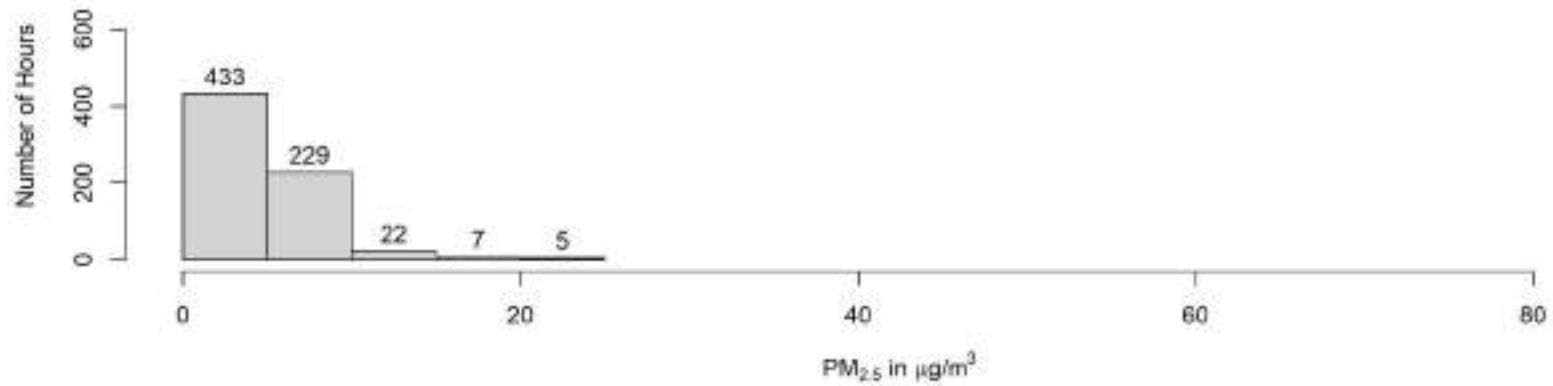
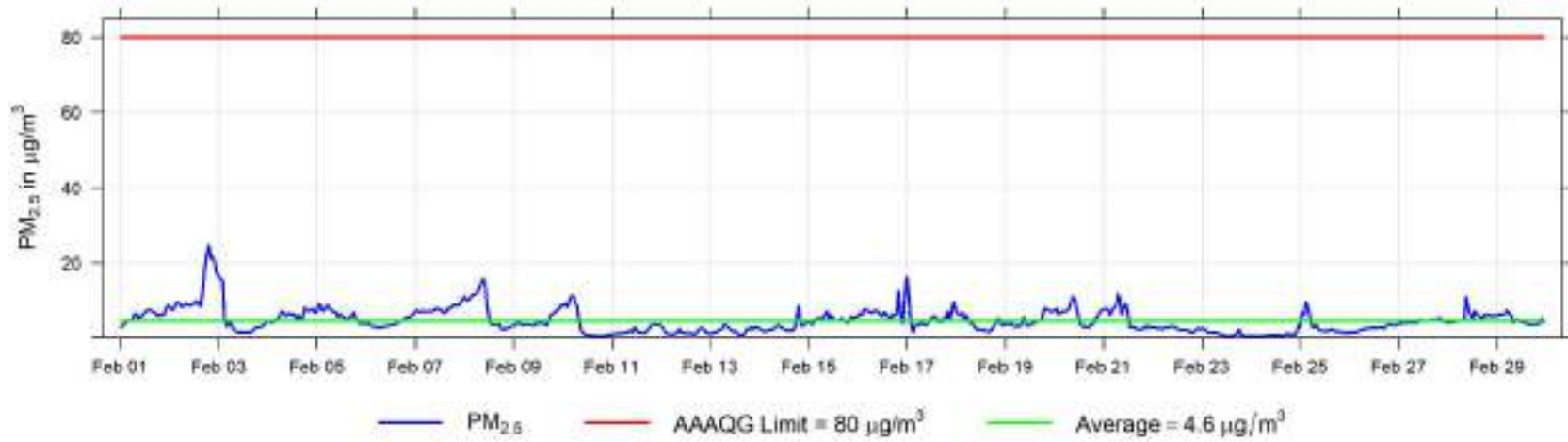
February 2024 Hourly Concentration Readings of O₃ (in ppb) at Poplar



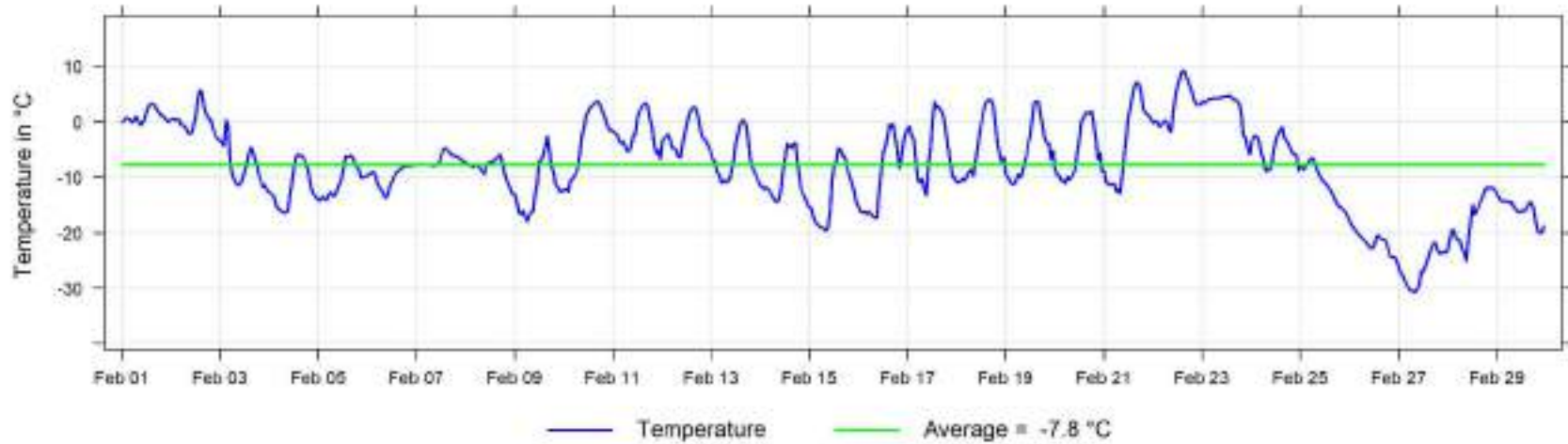
February 2024 Hourly Concentration Readings of THC (in ppm) at Poplar



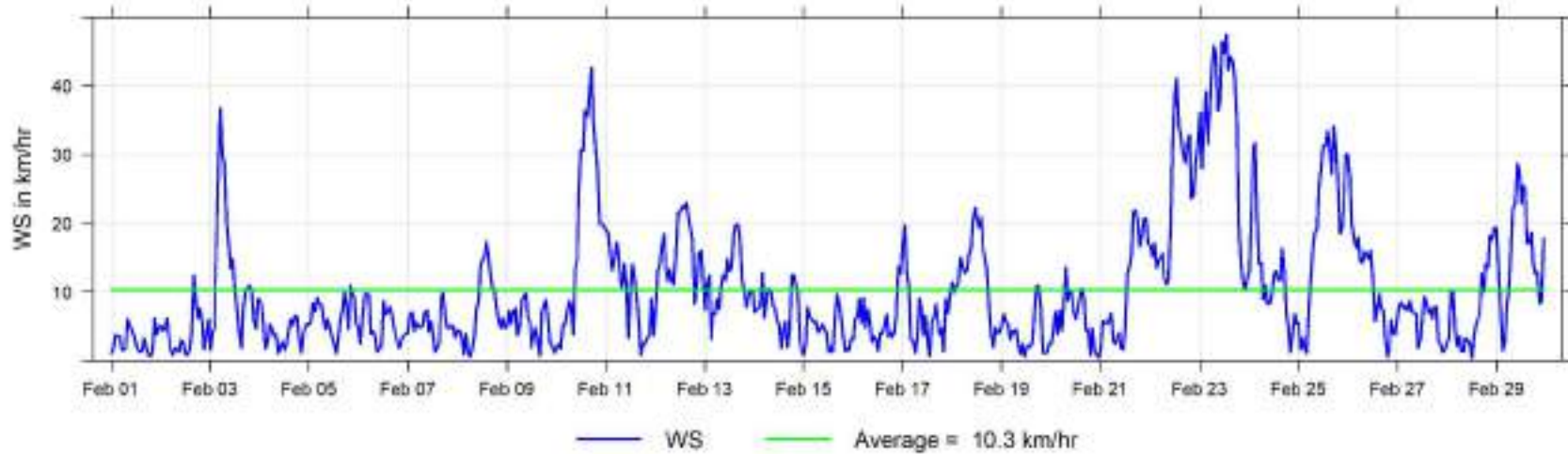
February 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Poplar



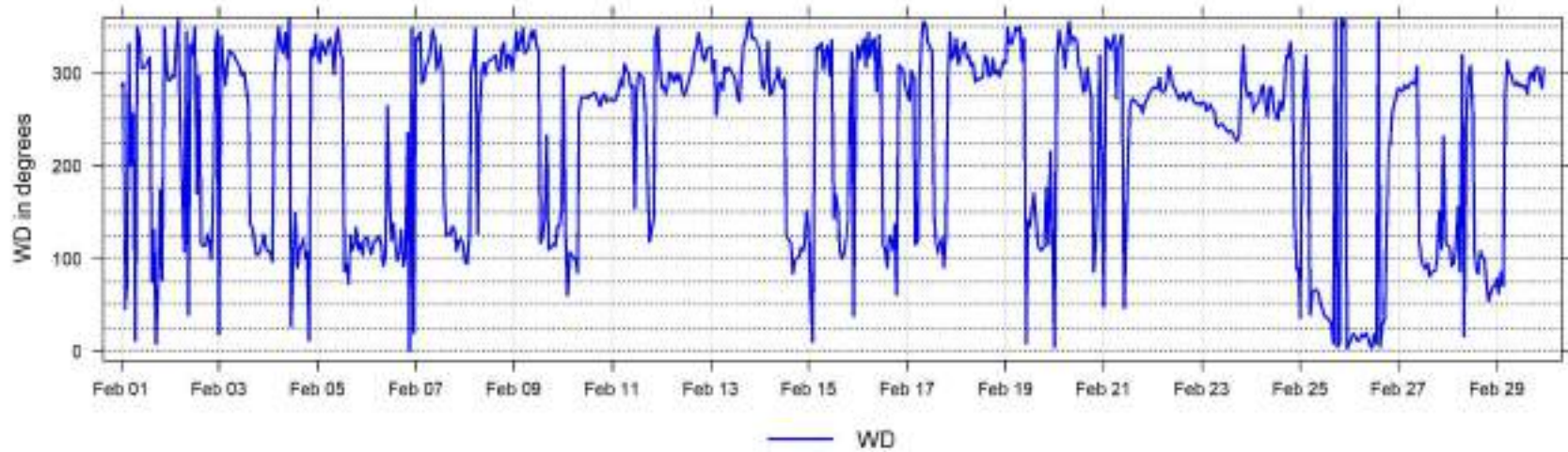
February 2024 Hourly Temperature Readings (in °C) at Poplar



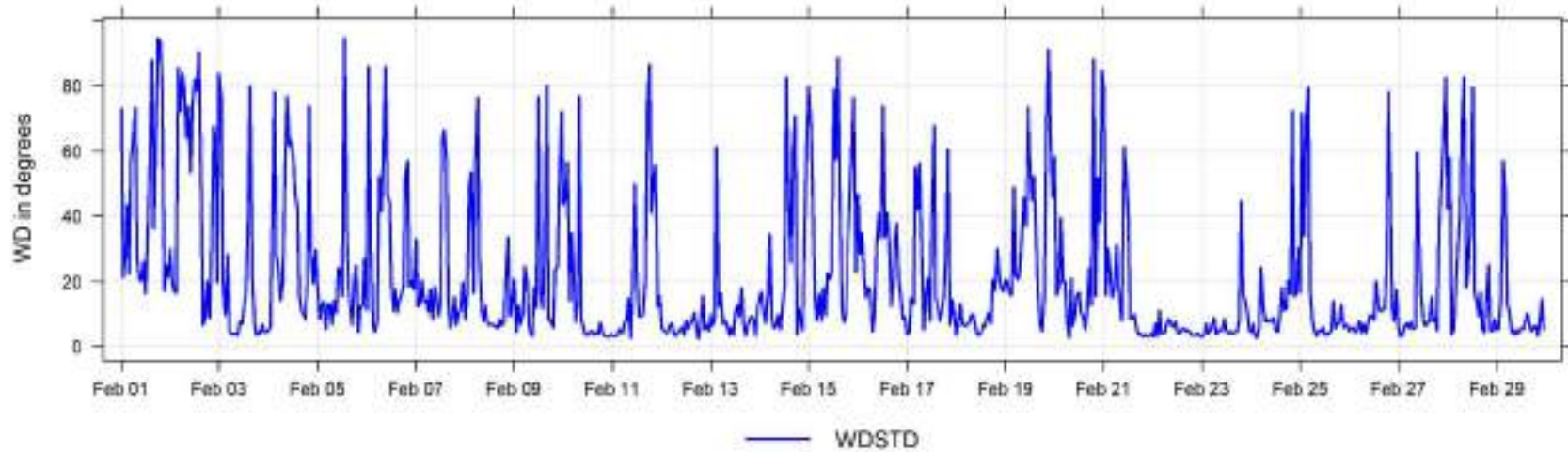
February 2024 Hourly Readings of Wind Speed (in km/hr) at Poplar

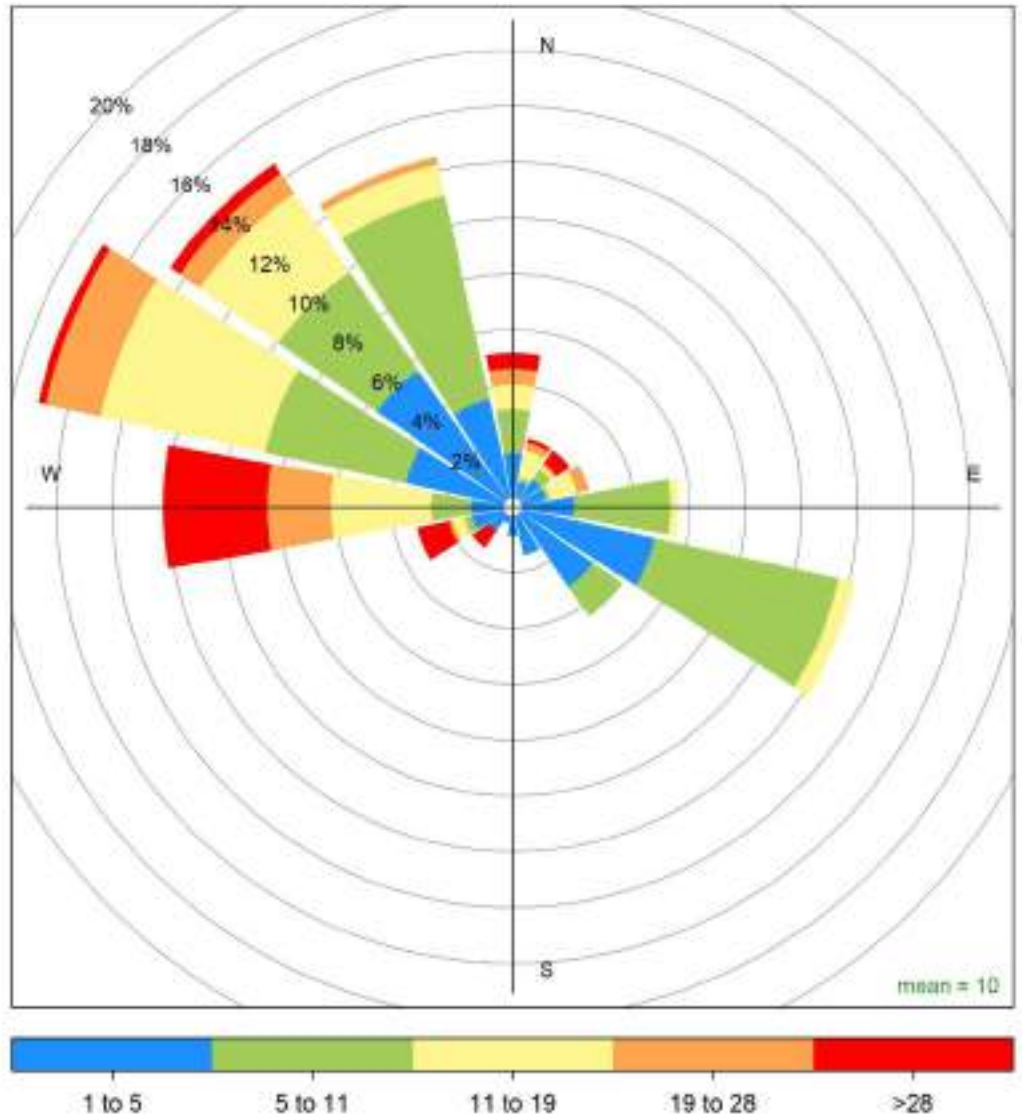


February 2024 Hourly Readings of Wind Direction (in degrees) at Poplar



February 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Poplar

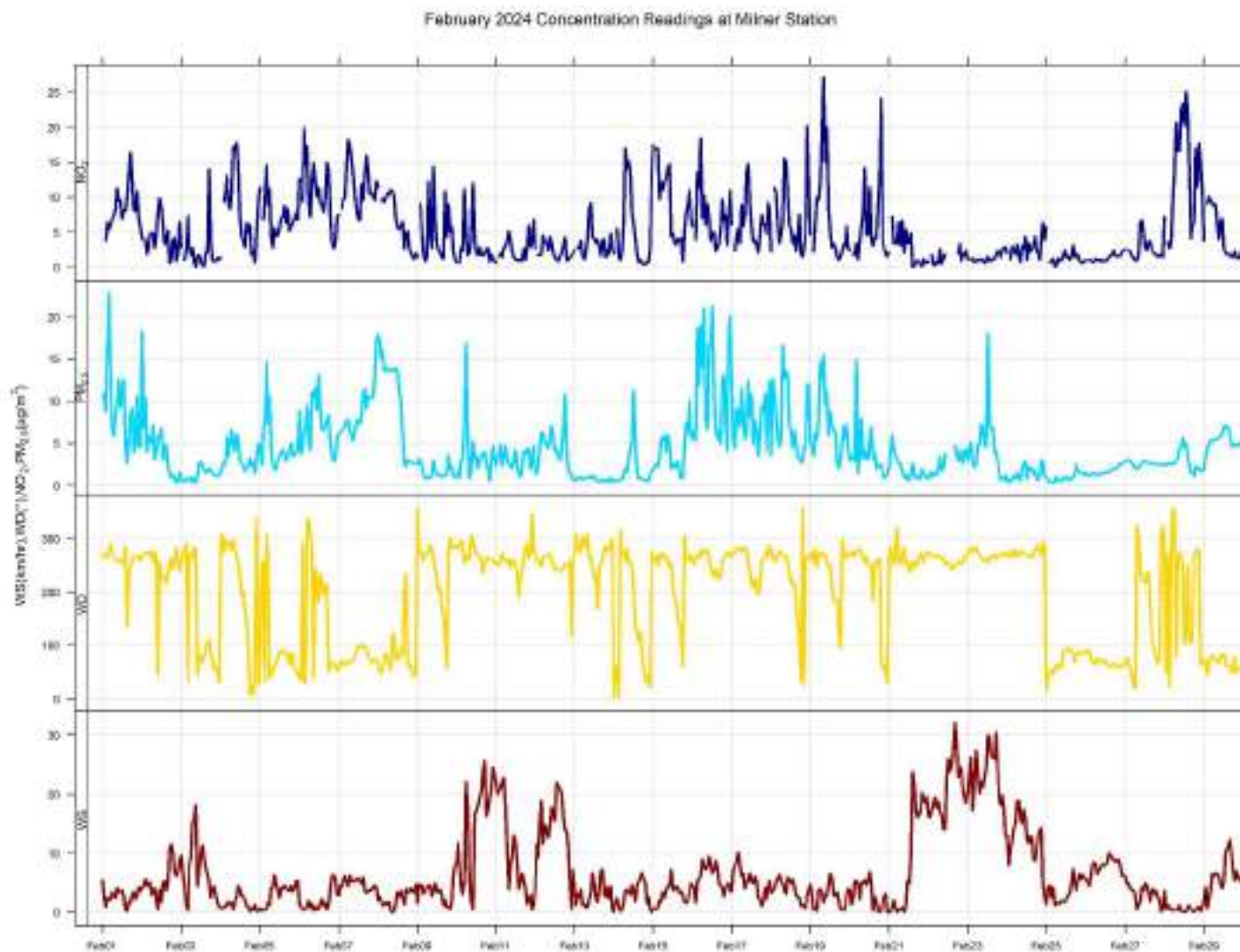




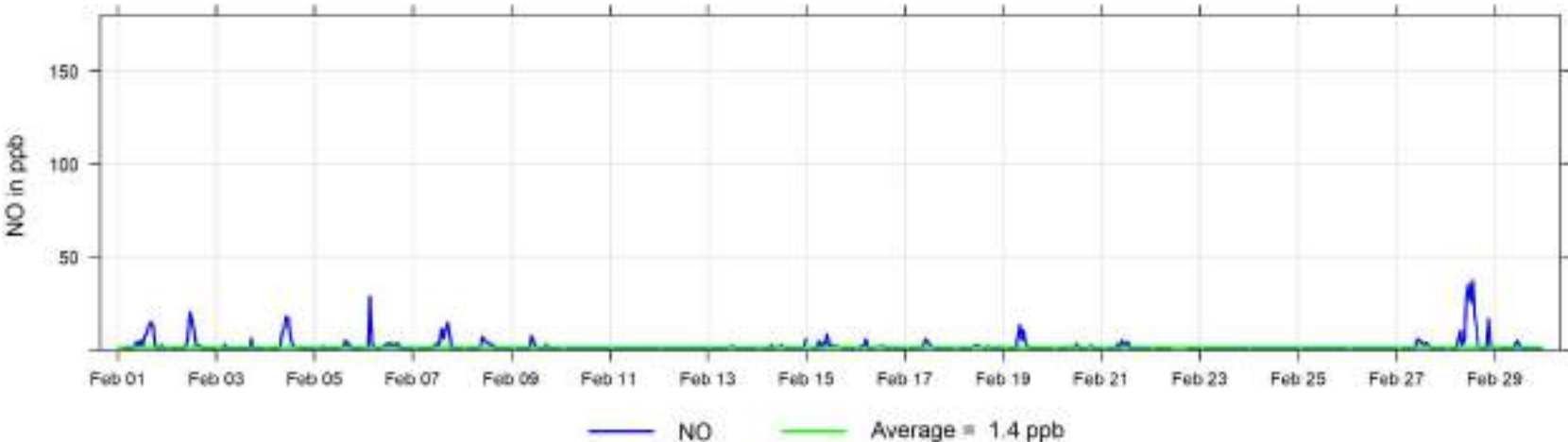
Poplar February 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 2.4 %

9 Milner Charts

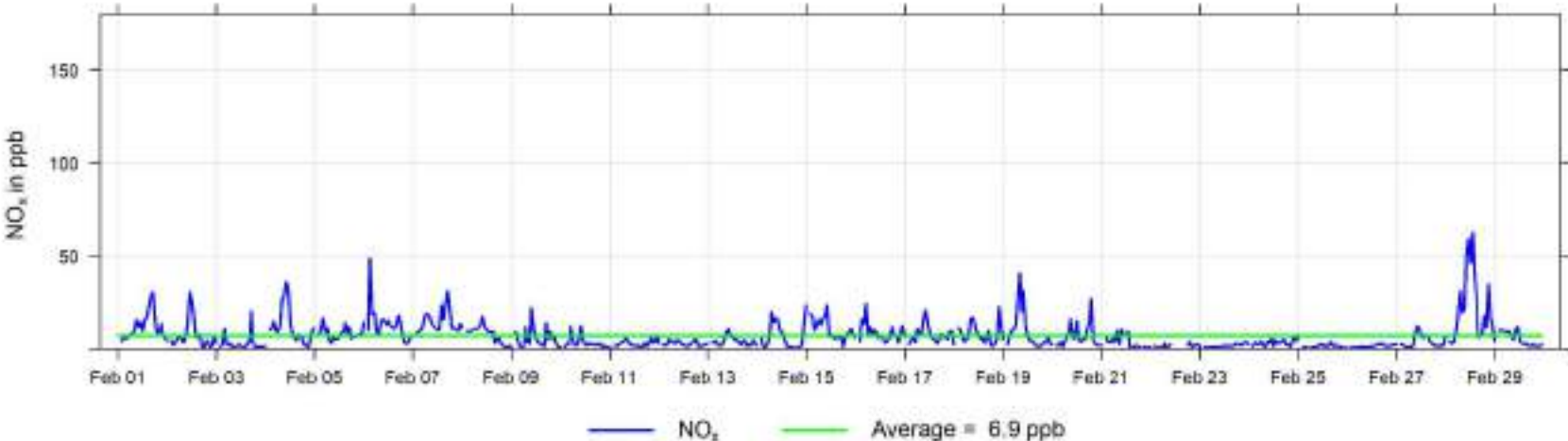
The following pages include the charts and histograms for Milner Station



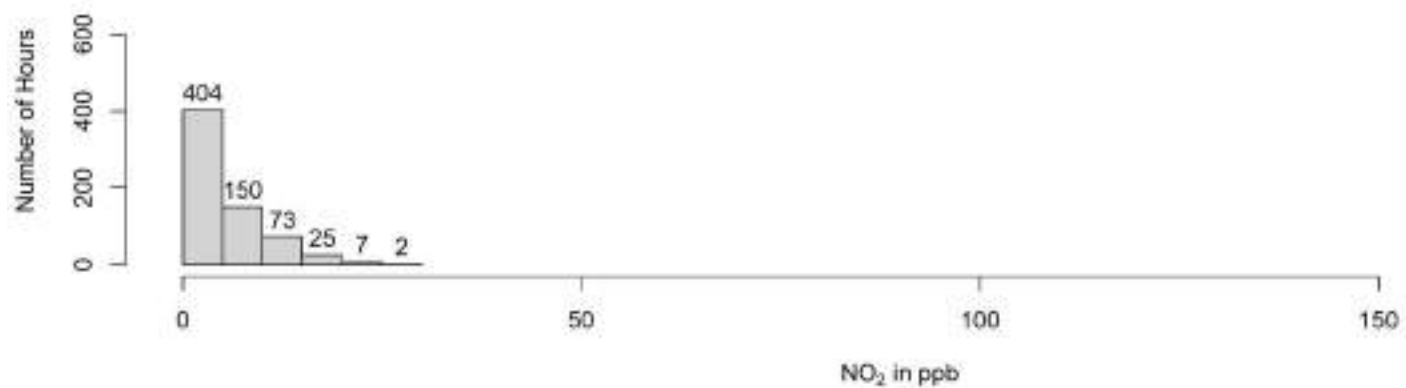
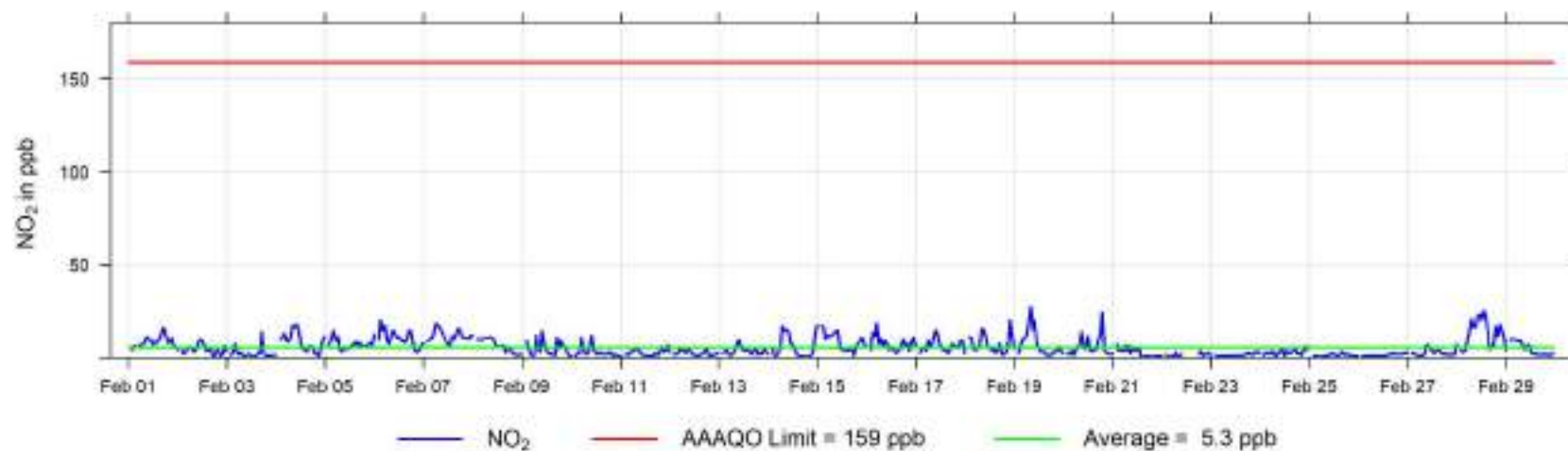
February 2024 Hourly Concentration Readings of NO (in ppb) at Milner



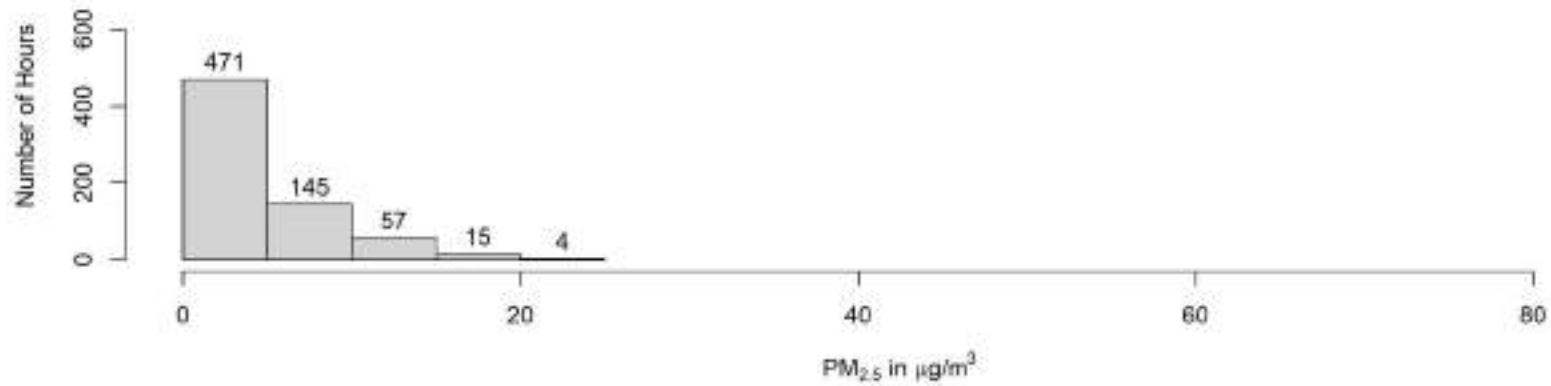
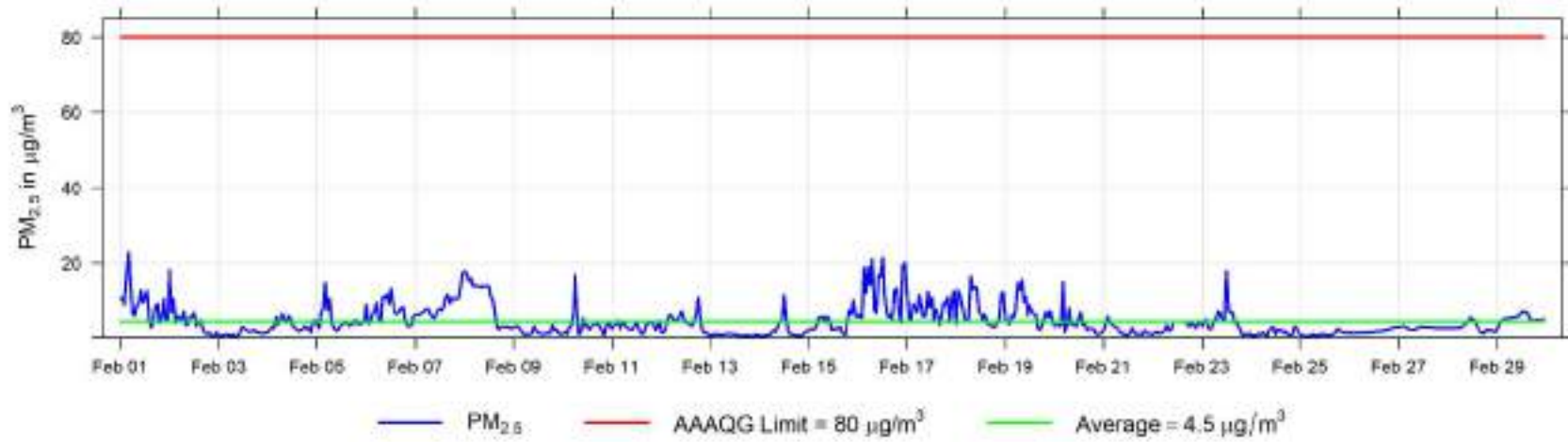
February 2024 Hourly Concentration Readings of NO_x (in ppb) at Milner



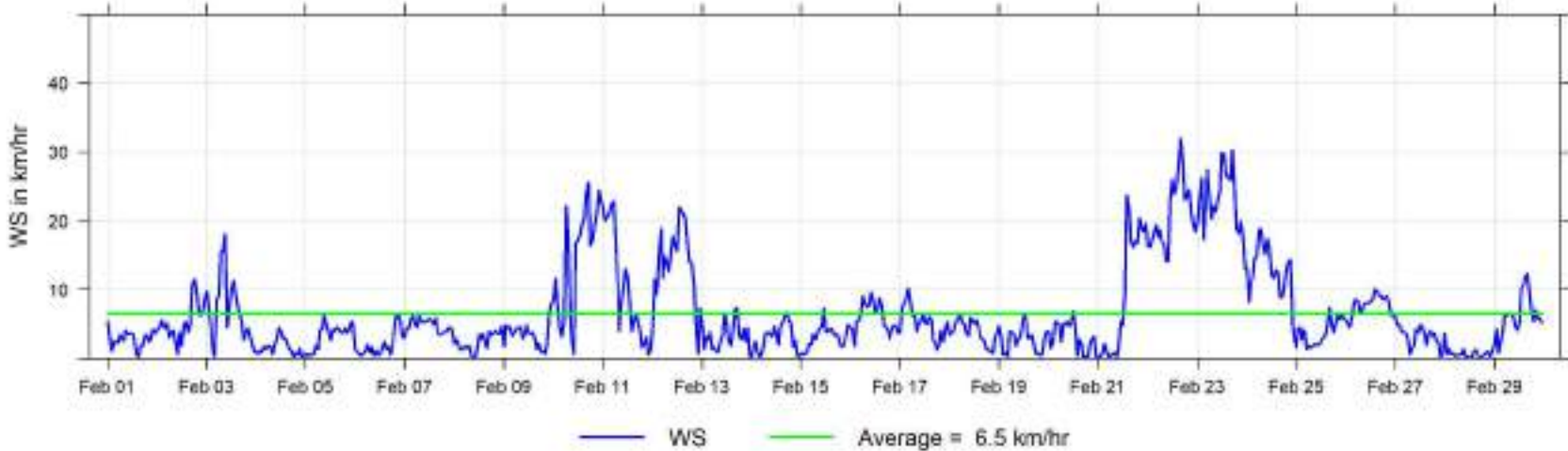
February 2024 Hourly Concentration Readings of NO₂ (in ppb) at Milner



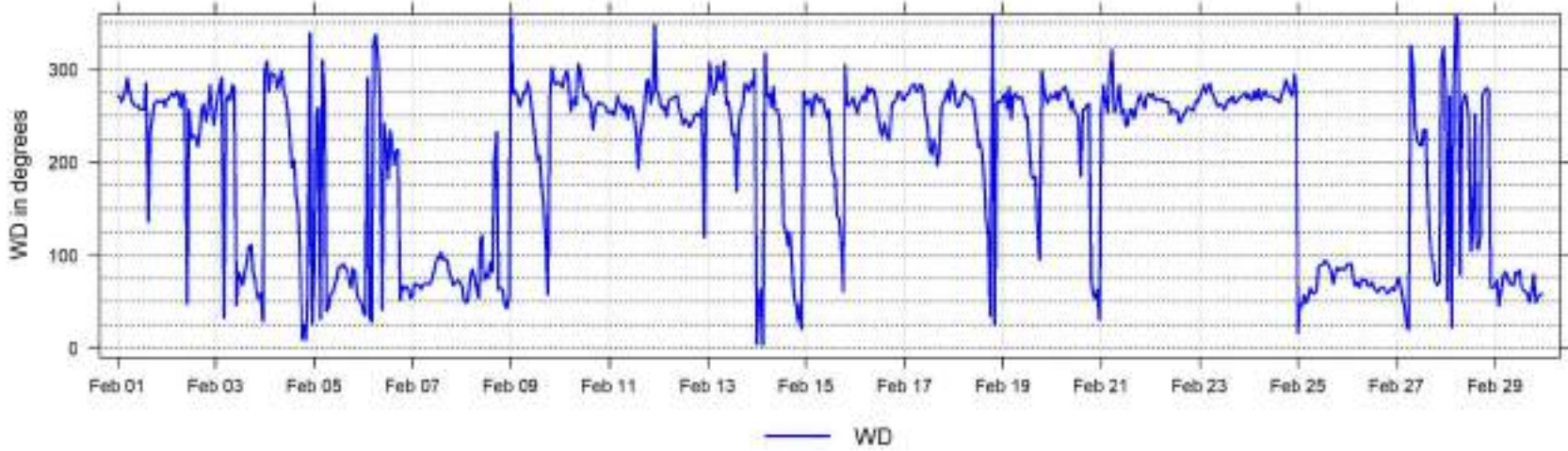
February 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Milner



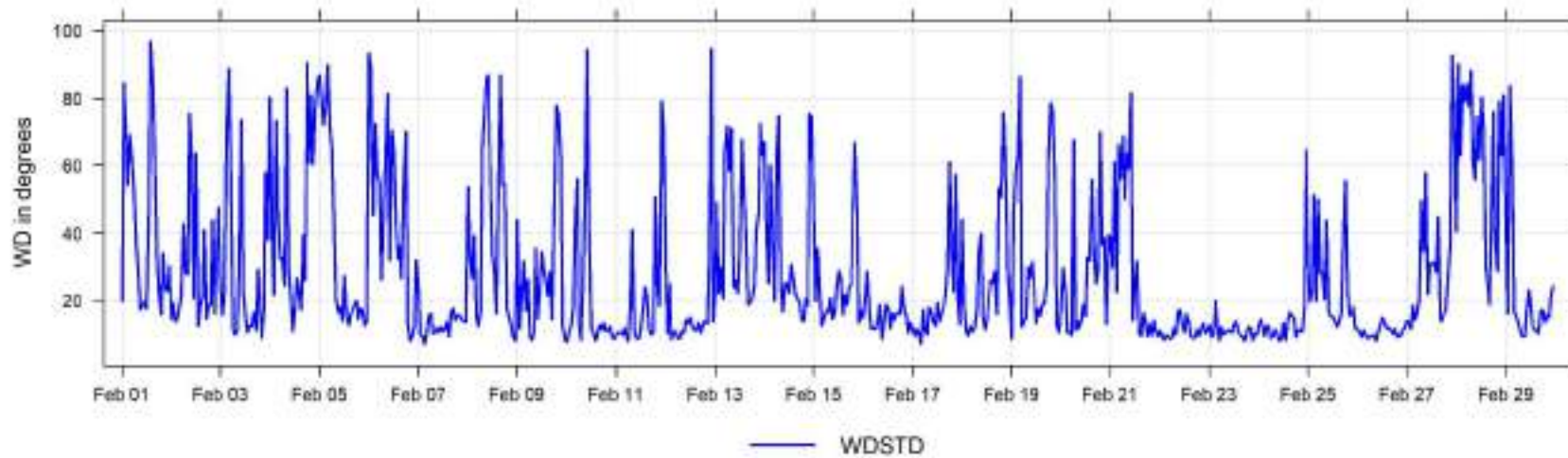
February 2024 Hourly Readings of Wind Speed (in km/hr) at Milner

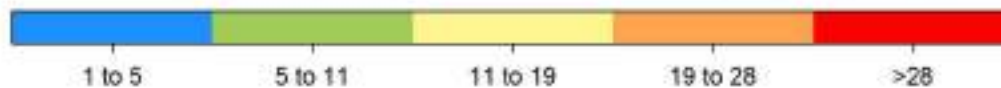
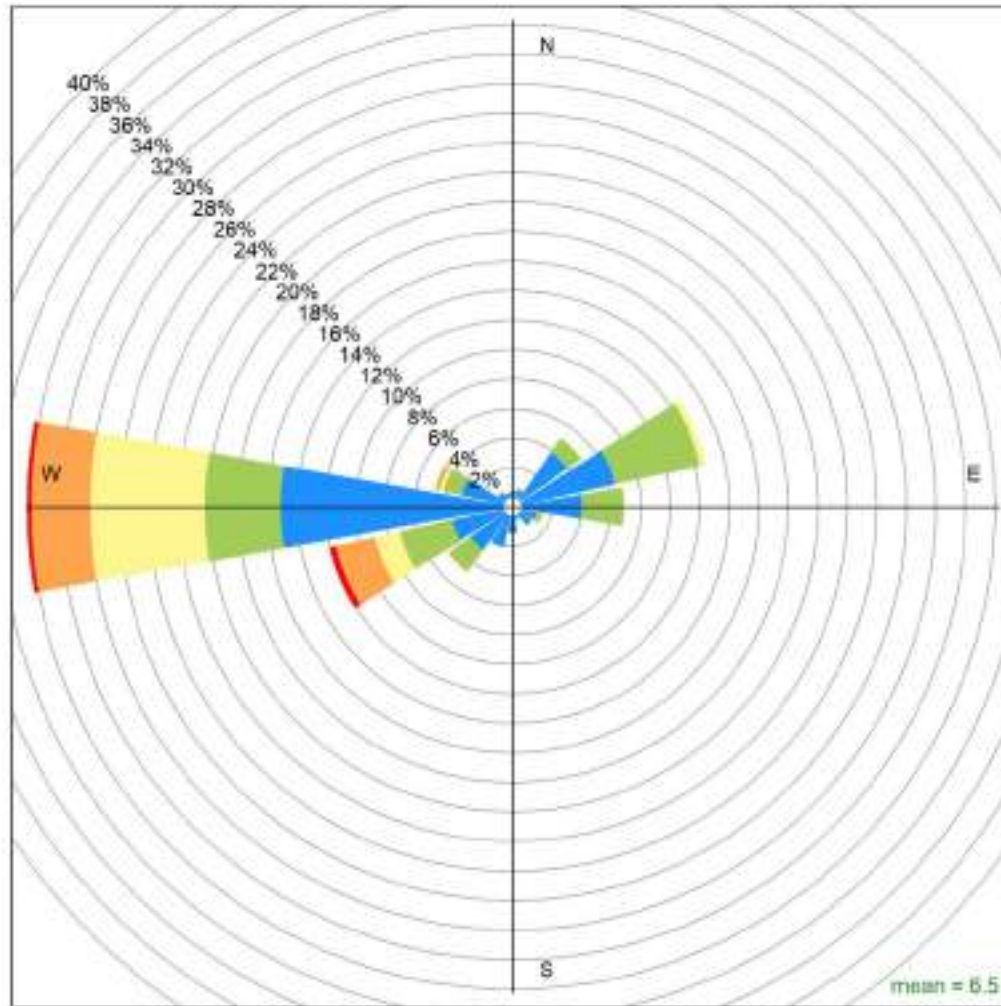


February 2024 Hourly Readings of Wind Direction (in degrees) at Milner



February 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Milner

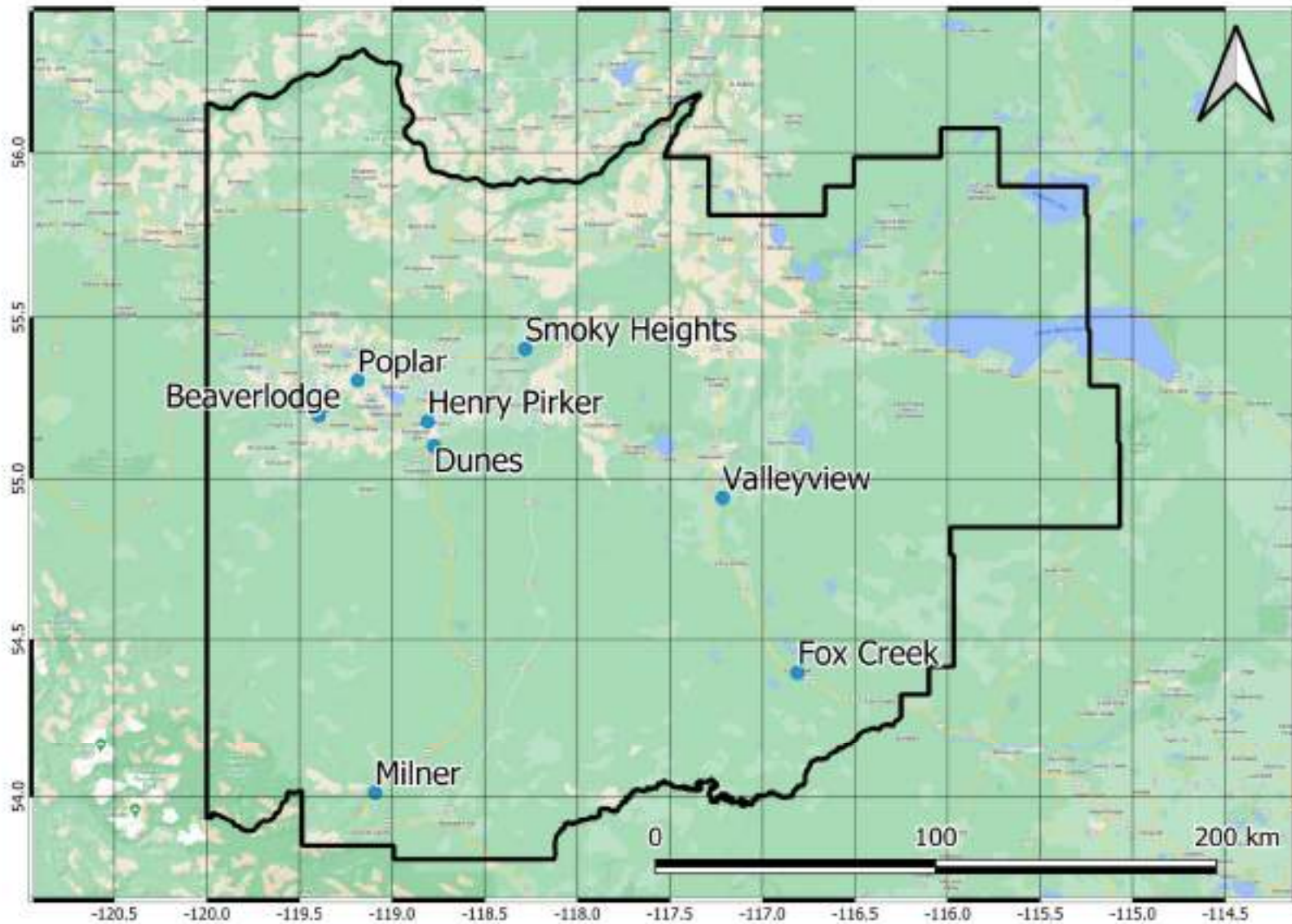




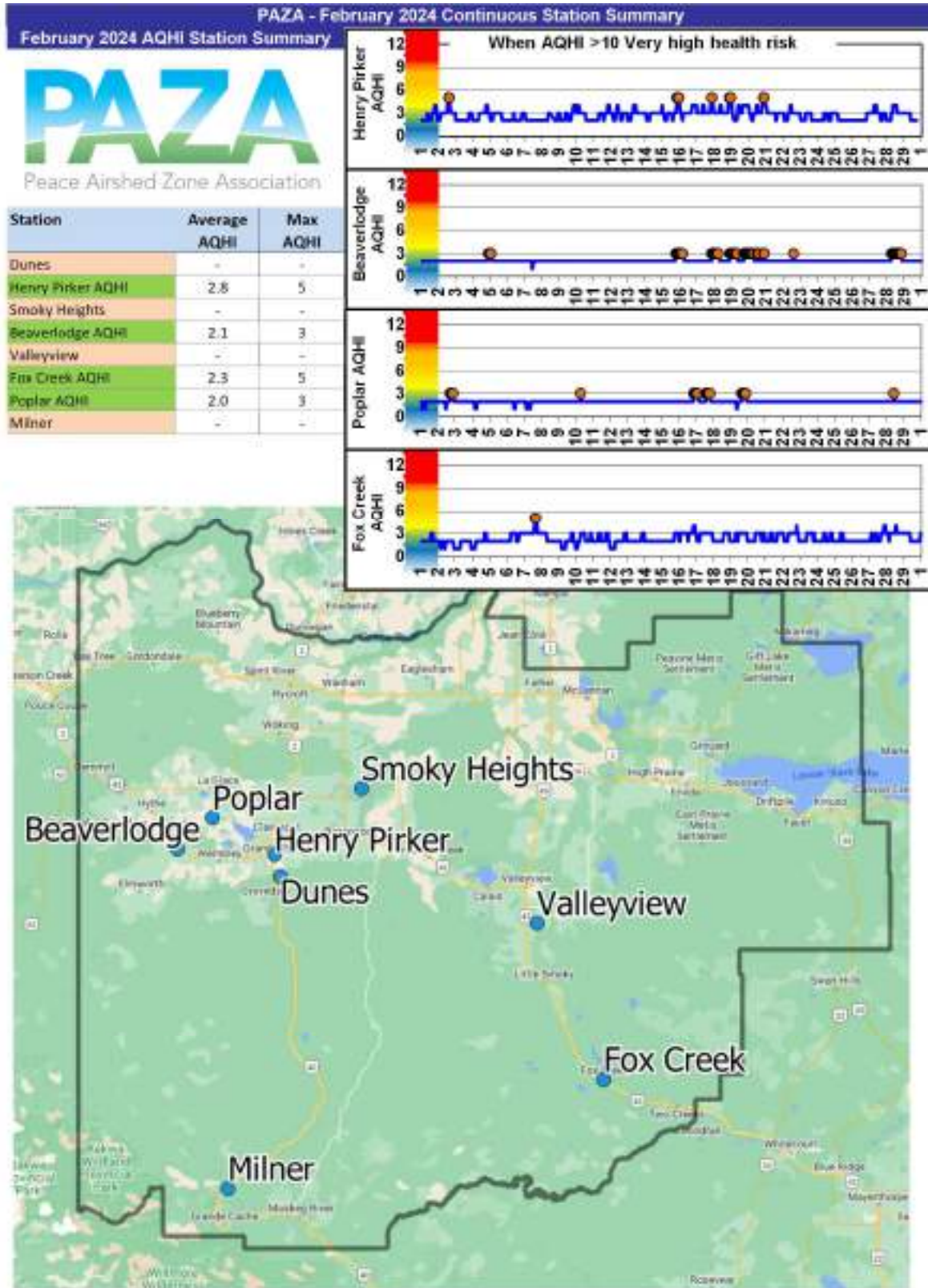
Milner February 2024 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 13.6 %

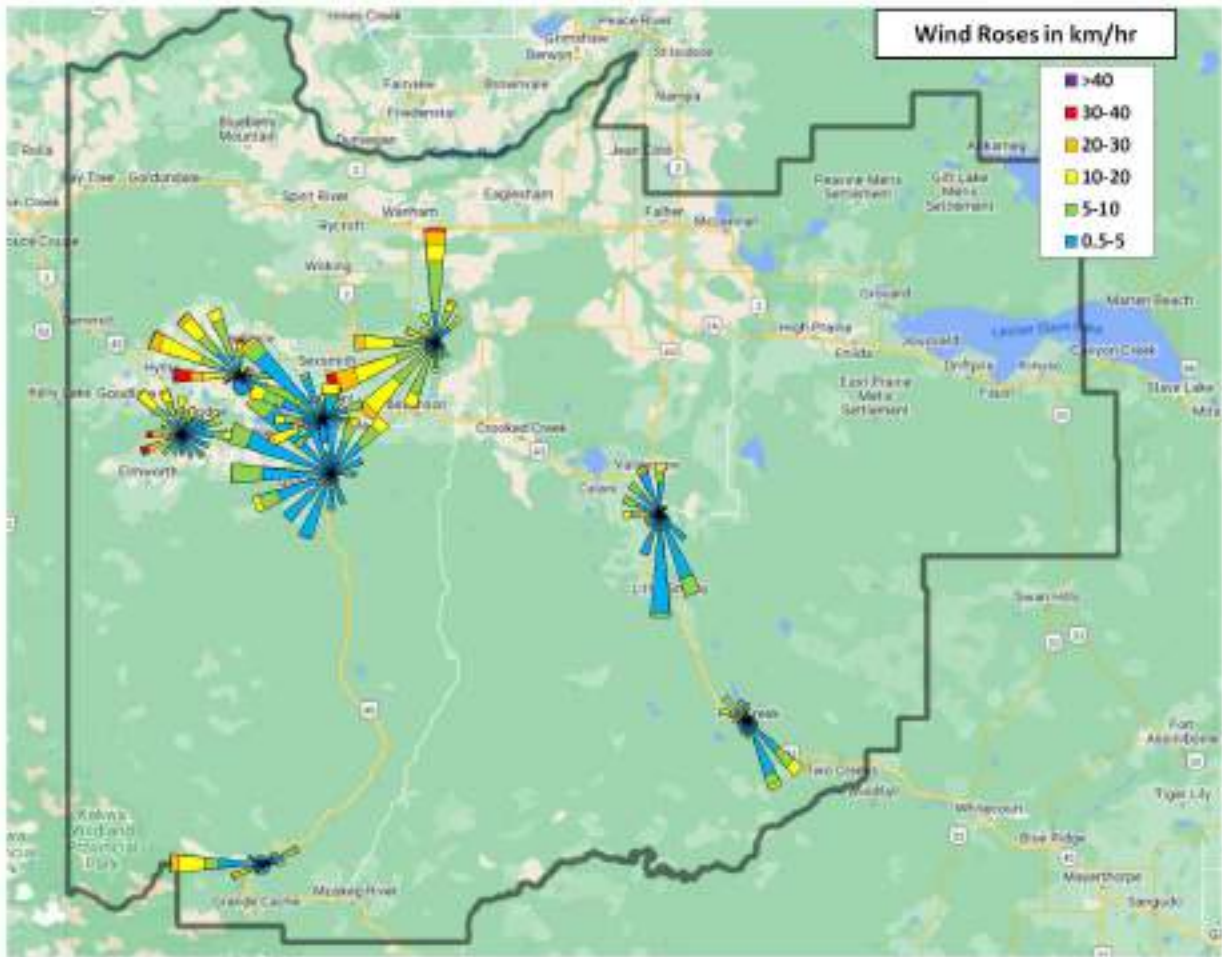
10 Concentration Summaries and Roses for PAZA



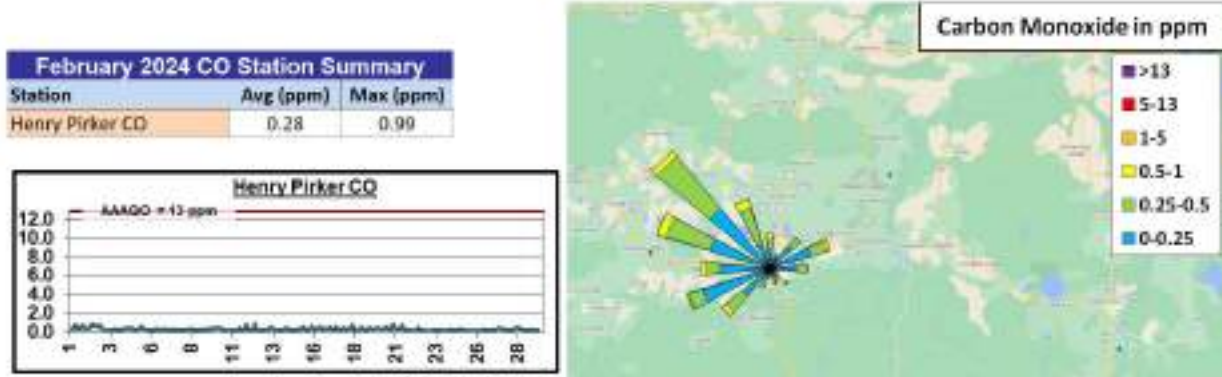
10.1 Air Quality Health Index (AQHI) Plots



10.2 Wind Roses



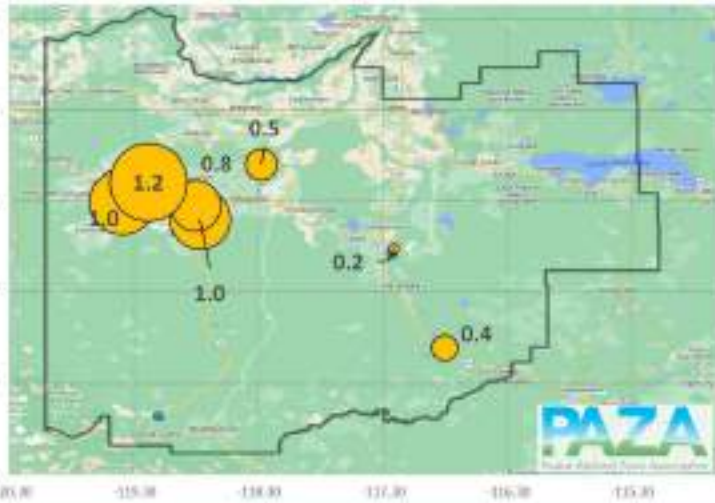
10.3 Carbon Monoxide (CO) Plots



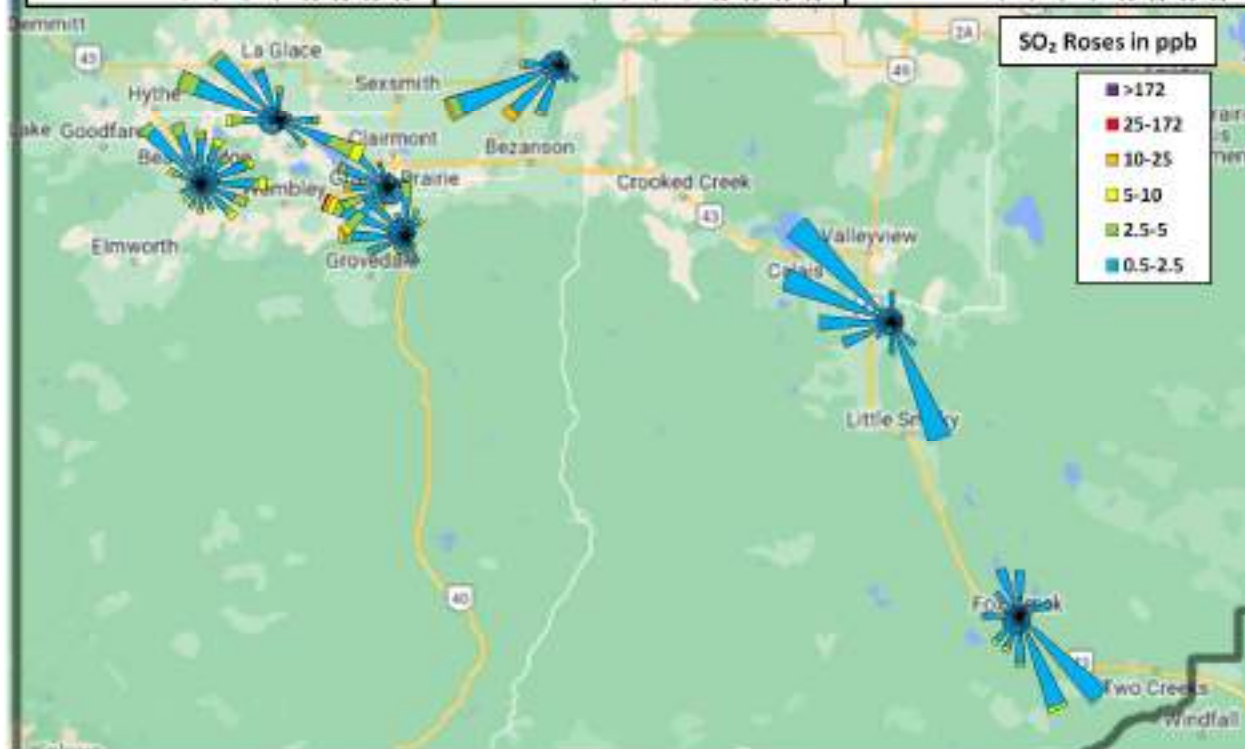
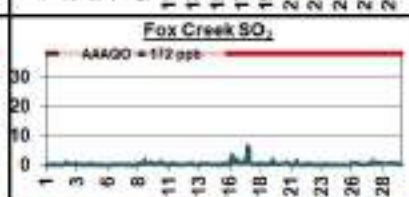
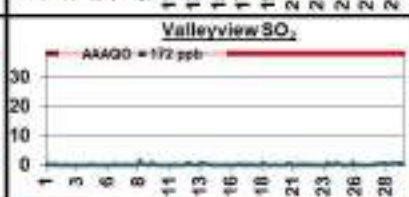
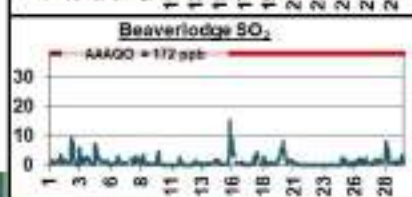
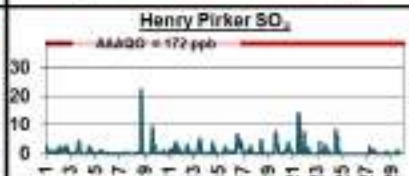
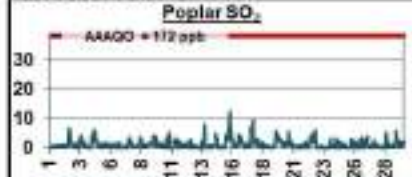
10.4 Sulphur Dioxide (SO₂) Plots

February 2024 SO₂ Station Summary

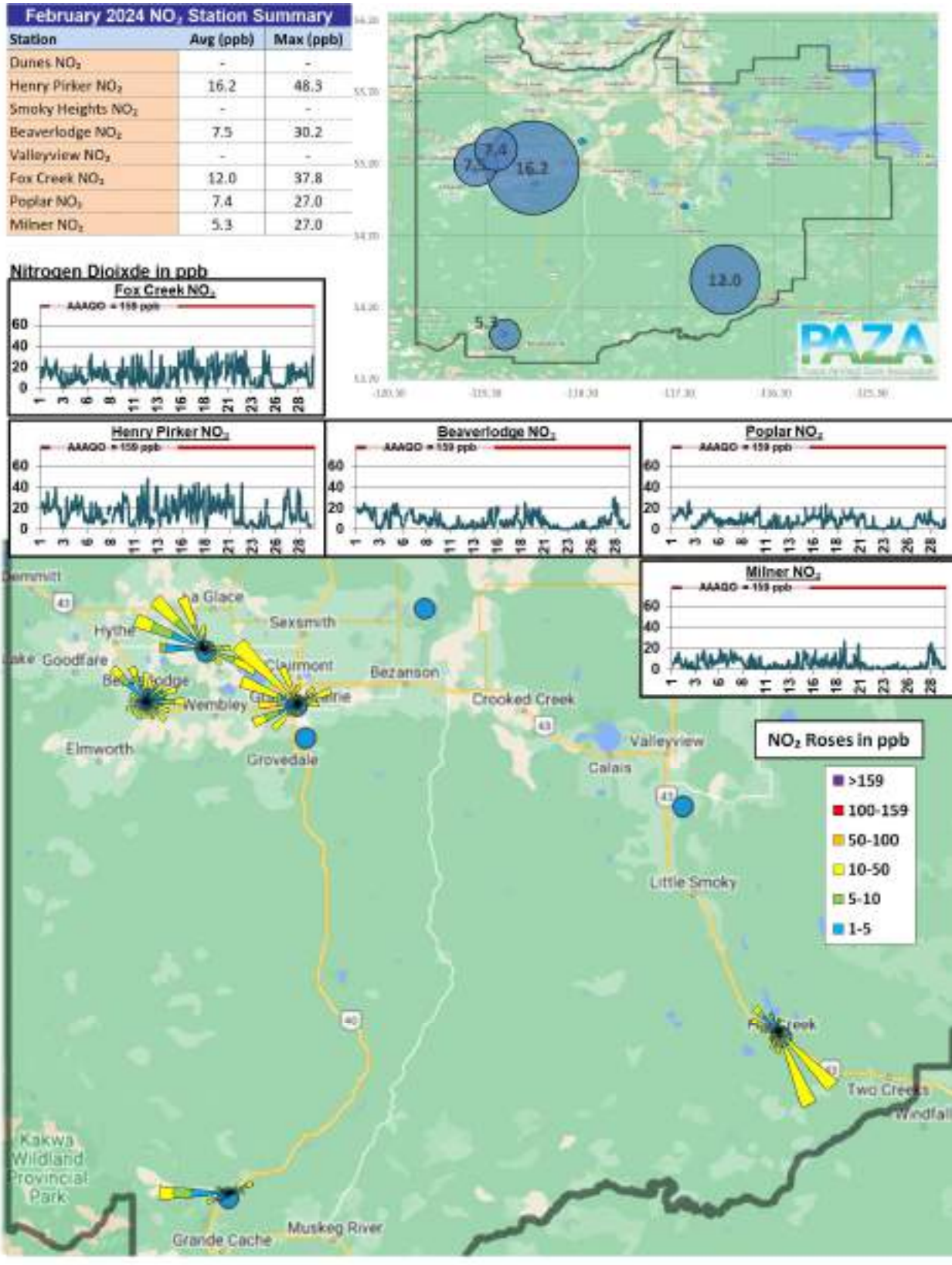
Station	Avg (ppb)	Max (ppb)
Dunes SO ₂	1.0	82.7
Henry Pirkar SO ₂	0.8	22.2
Smoky Heights SO ₂	0.5	13.7
Beaverlodge SO ₂	1.0	15.4
Valleyview SO ₂	0.2	1.9
Fox Creek SO ₂	0.4	6.7
Poplar SO ₂	1.2	12.3
Milner SO ₂	*	*



Sulphur Dioxide in ppb

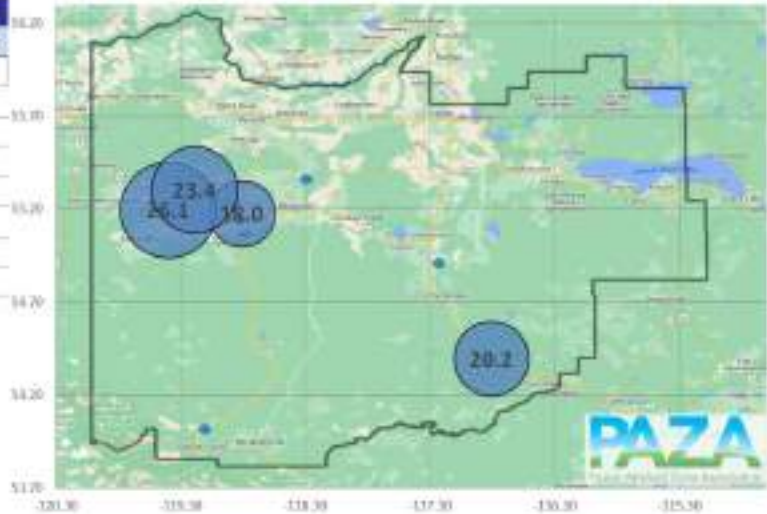


10.5 Nitrogen Dioxide (NO₂) Plots

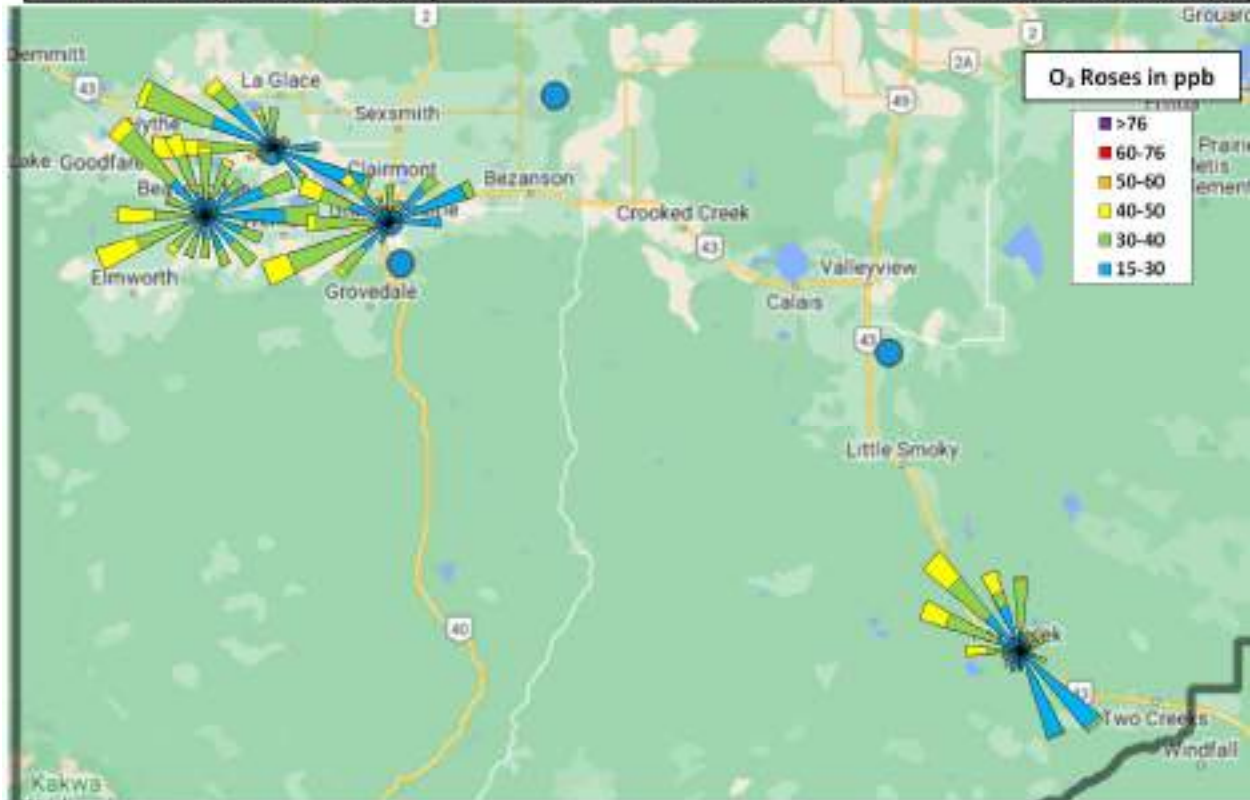
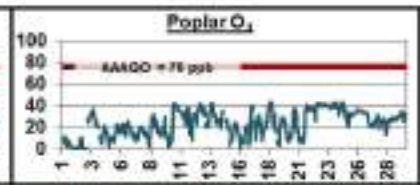
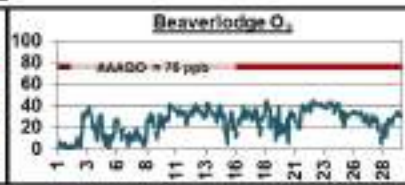
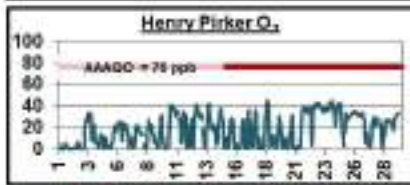
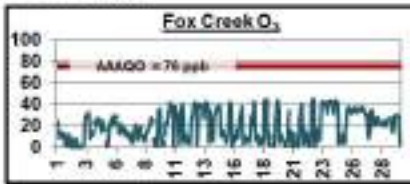


10.6 Ozone (O₃) Plots

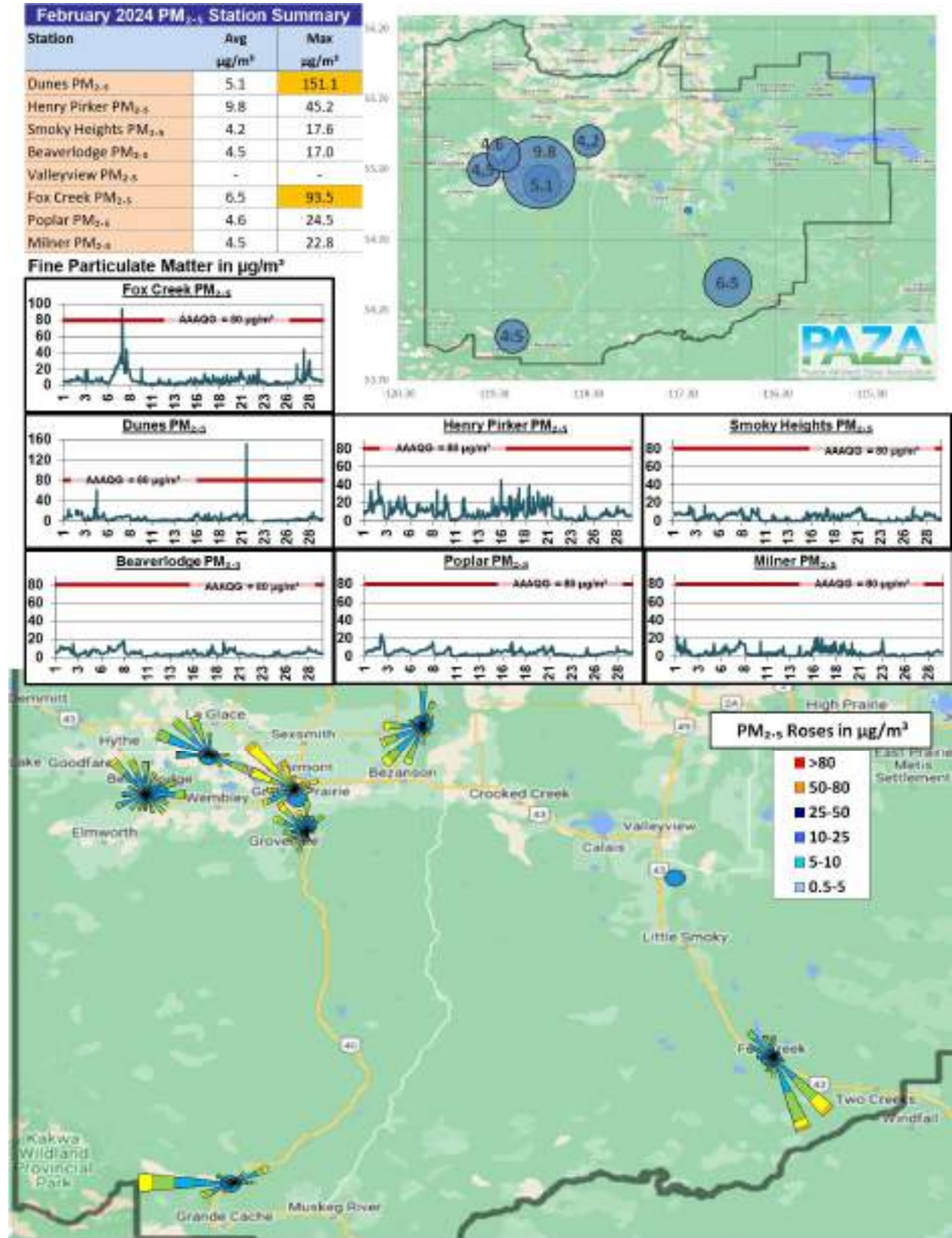
February 2024 O ₃ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes O ₃	-	-
Henry Pirkler O ₃	18.0	44.6
Smoky Heights O ₃	-	-
Beaverlodge O ₃	26.1	44.9
Valleyview O ₃	-	-
Fox Creek O ₃	20.2	45.4
Poplar O ₃	23.4	43.6
Milner O ₃	-	-



Ozone in ppb



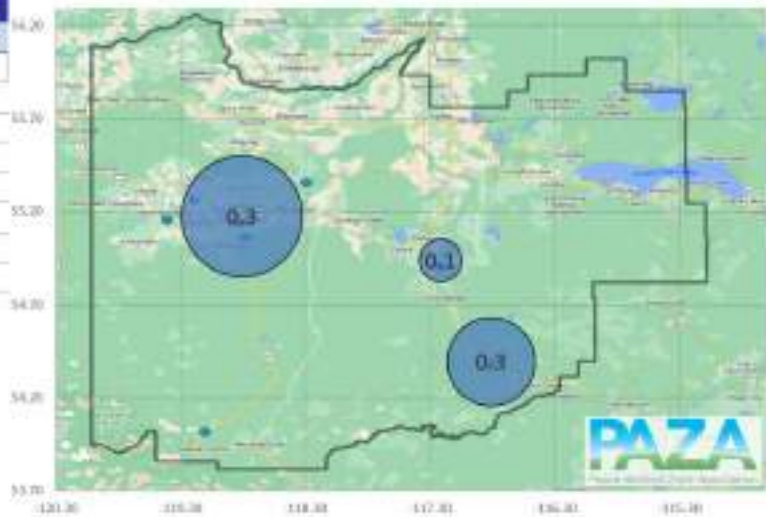
10.7 Fine Particulate Matter (PM_{2.5}) Plots



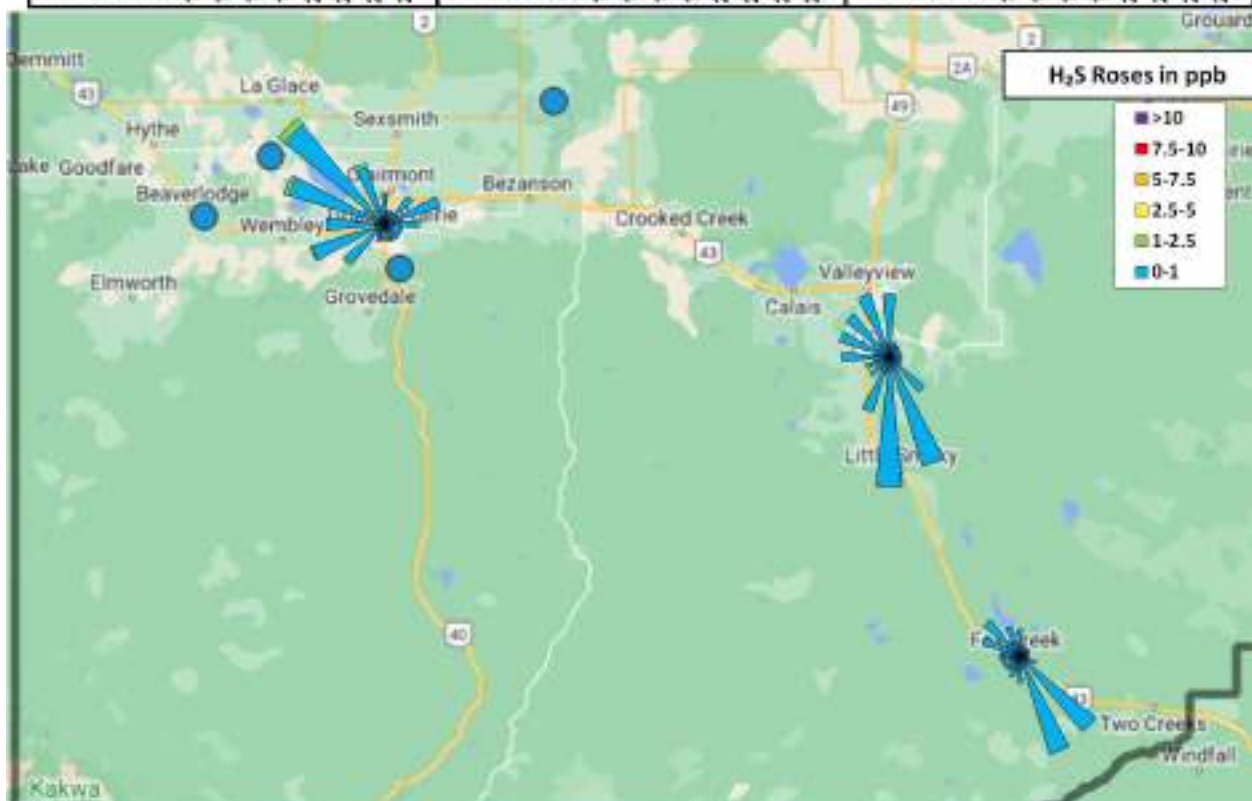
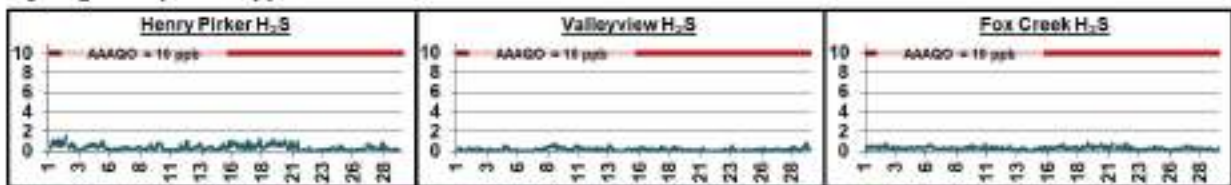
10.8 Hydrogen Sulphide (H₂S) Plots

February 2024 H₂S Station Summary

Station	Aug (ppb)	Max (ppb)
Dunes H ₂ S	-	-
Henry Pirket H ₂ S	0.3	1.5
Smoky Heights H ₂ S	-	-
Beaverlodge H ₂ S	-	-
Valleyview H ₂ S	0.1	0.8
Fox Creek H ₂ S	0.3	0.8
Poplar H ₂ S	-	-
Milner H ₂ S	-	-

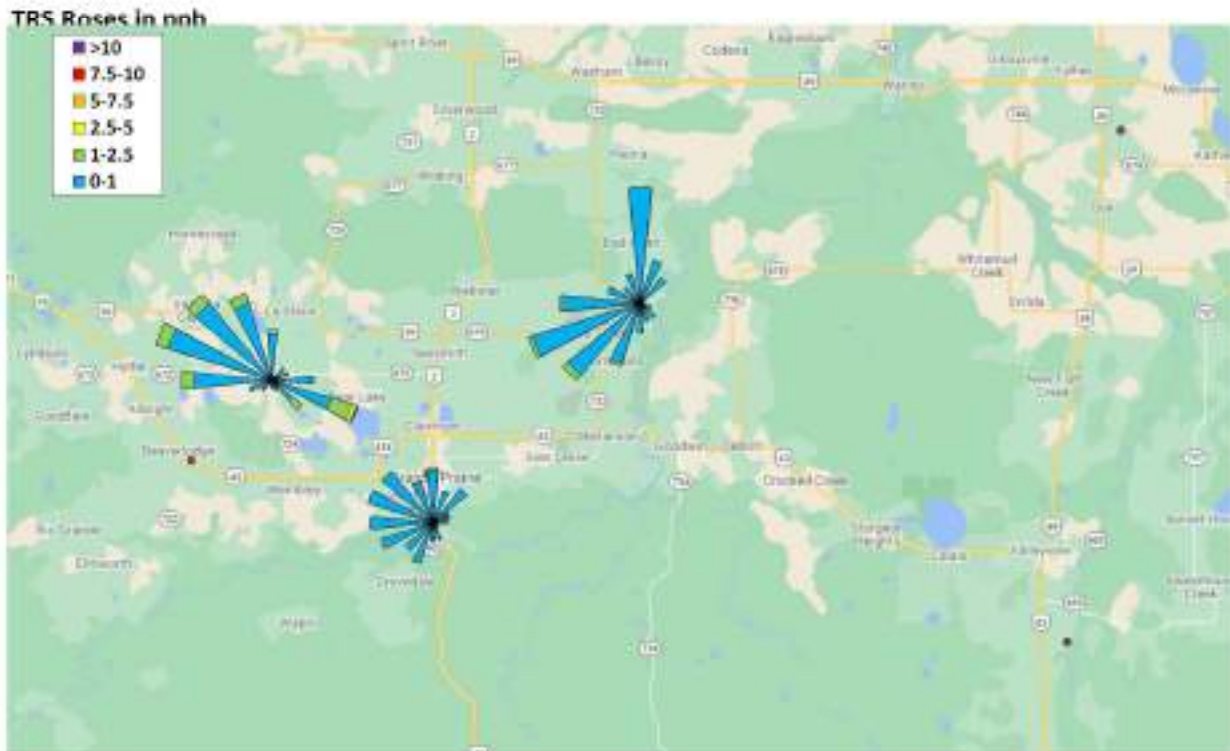
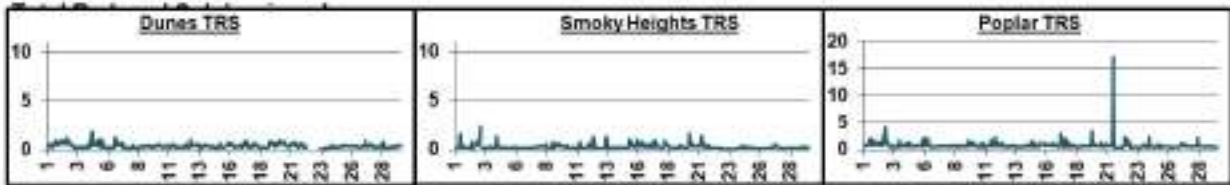
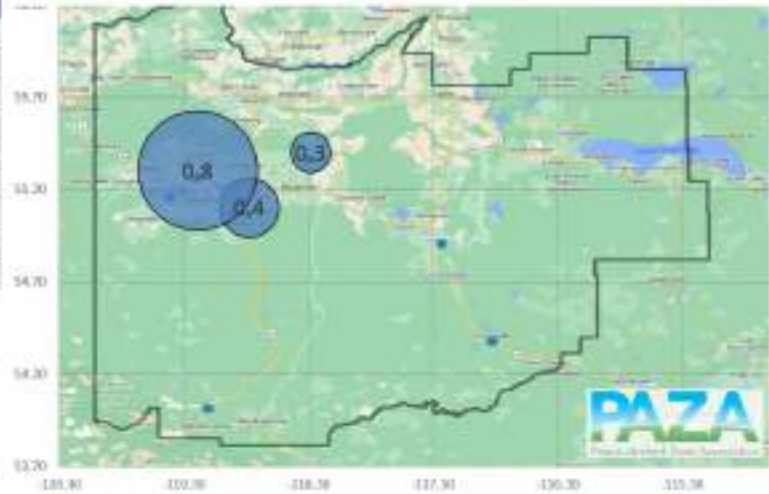


Hydrogen Sulphide in ppb



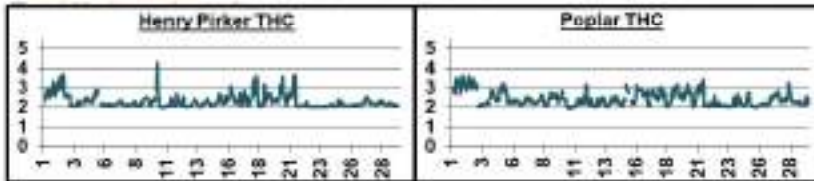
10.9 Total Reduced Sulphur (TRS) Plots

February 2024 TRS Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes TRS	0.4	1.9
Henry Pirkler TRS	-	-
Smoky Heights TRS	0.3	2.3
Beaverlodge TRS	-	-
Valleyview TRS	-	-
Fox Creek TRS	-	-
Poplar TRS	0.8	17.2
Milner TRS	-	-

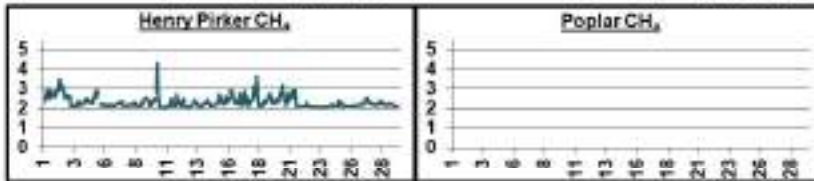


10.10 Total Hydrocarbon (THC) Plots

February 2024 THC Station Summary						
Station	Total Hydrocarbons		Methane		Non-Methane HCs	
	Avg (ppm)	Max (ppm)	Avg (ppm)	Max (ppm)	Avg (ppm)	Max (ppm)
Dunes THC	-	-	-	-	-	-
Henry Pirkler THC	2.3	4.3	2.3	4.3	0.02	0.74
Smoky Heights THC	-	-	-	-	-	-
Beaverlodge THC	-	-	-	-	-	-
Valleyview THC	-	-	-	-	-	-
Fox Creek THC	-	-	-	-	-	-
Poplar THC	2.4	3.6	-	-	-	-



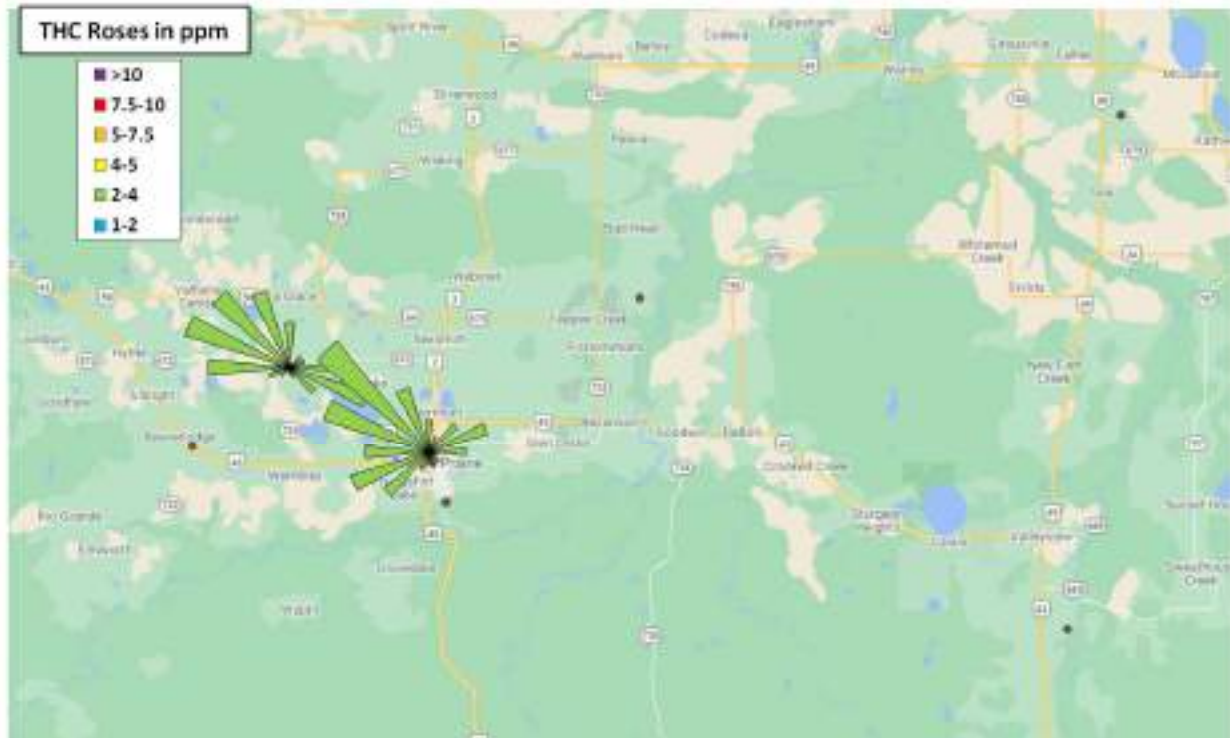
Total Hydrocarbons (THC)



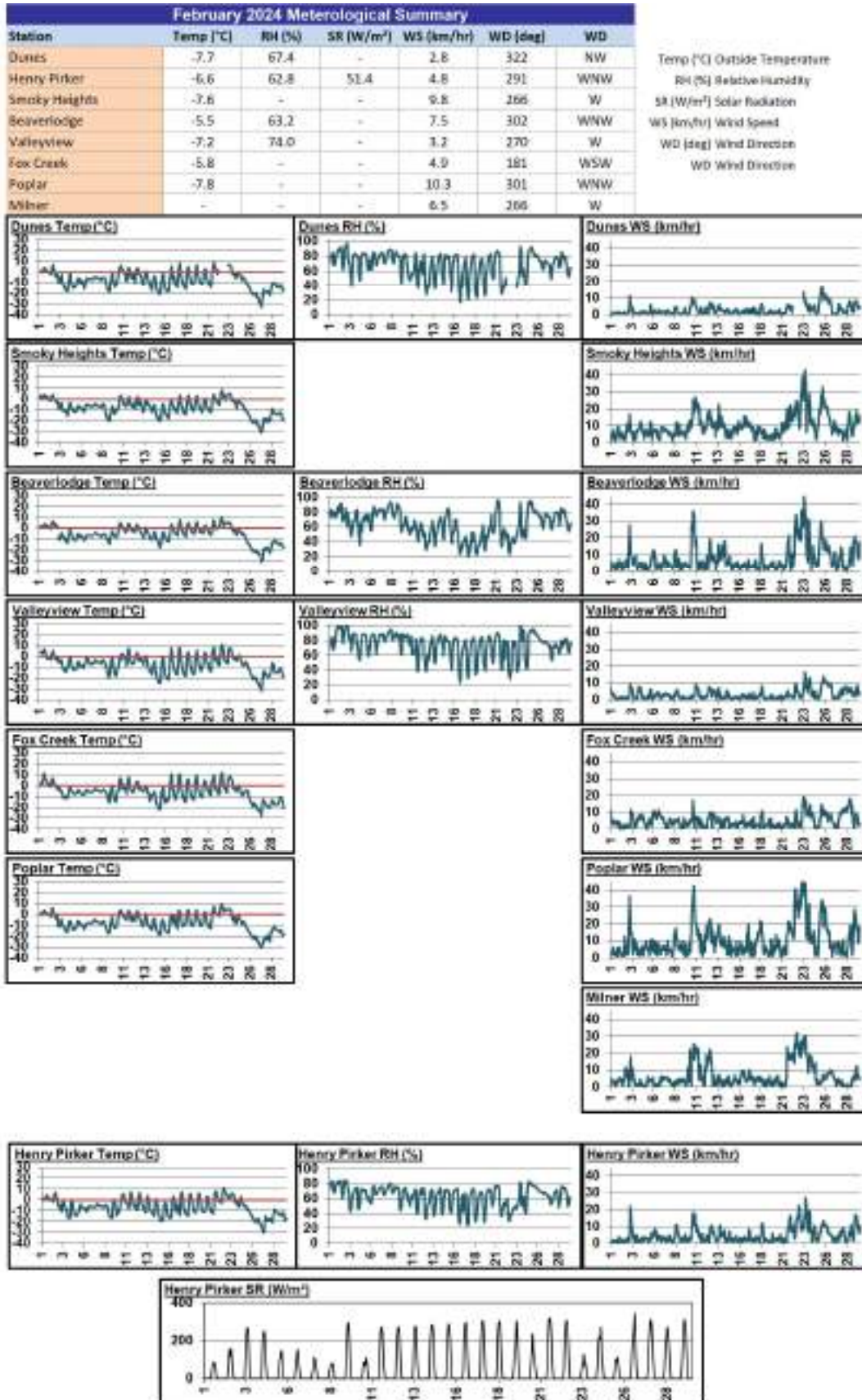
Methane (CH₄)



Non-Methane Hydrocarbons (NMHC)



10.11 Meteorology Summary



11 Passive Monitoring Data

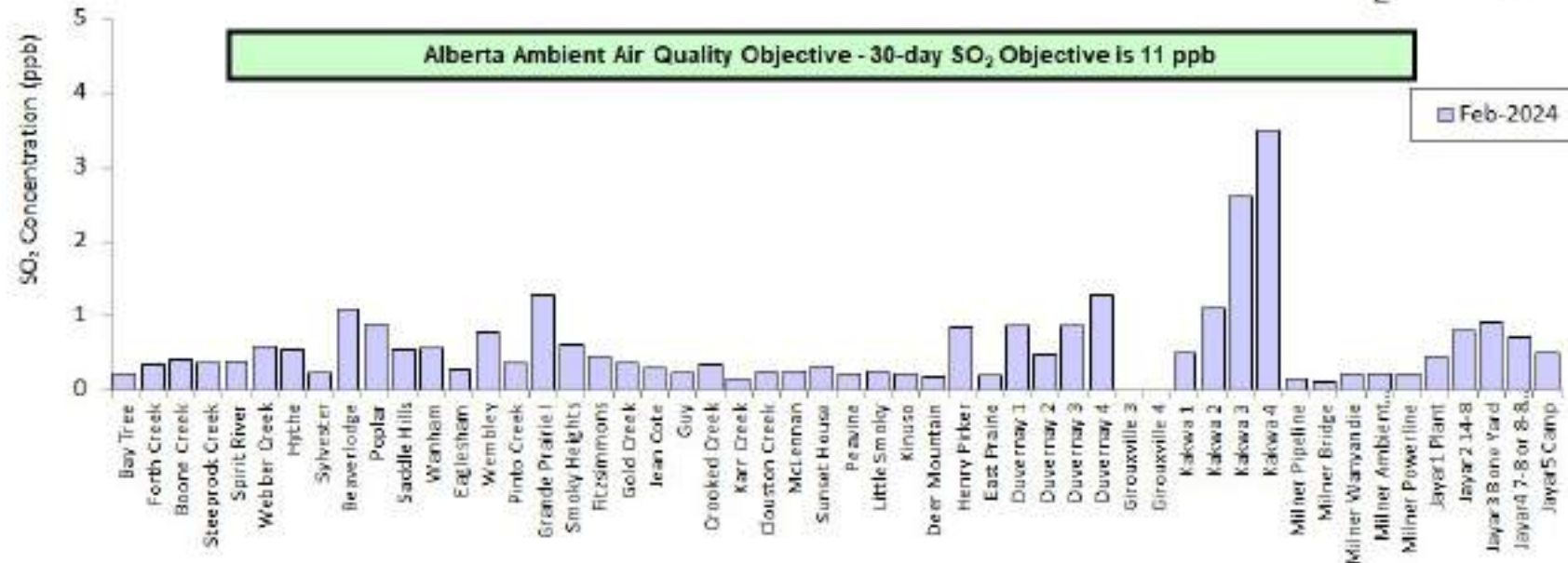
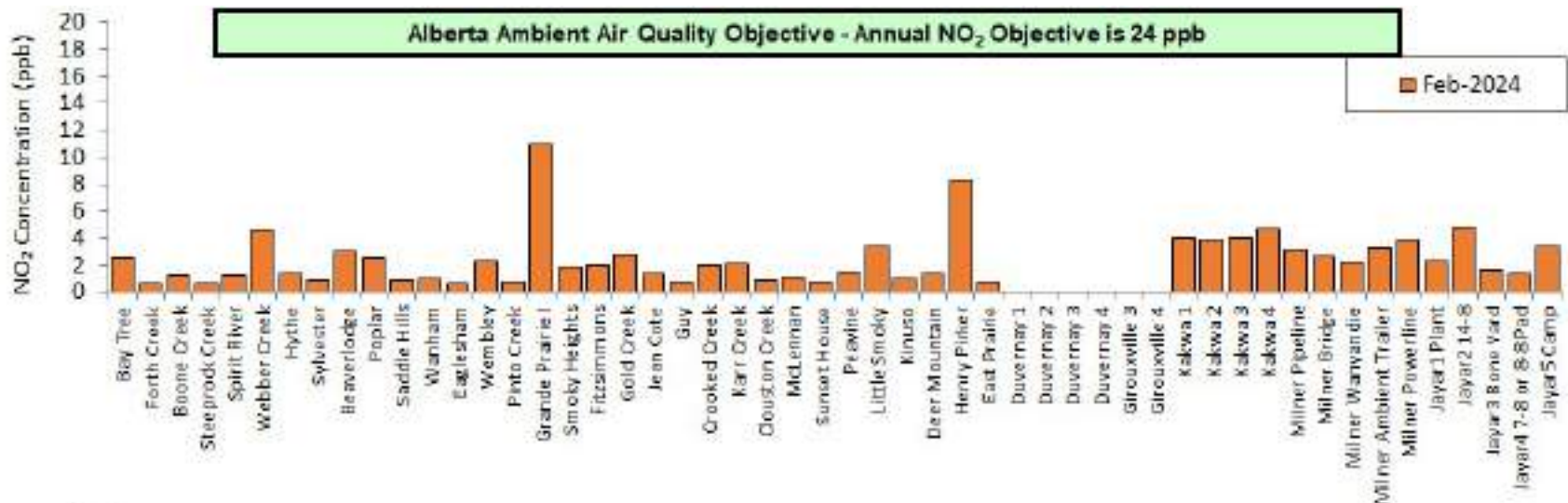
Peace Airshed Zone Association - PAZA Passive Stations for February 2024

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
Duplicates						
2a	Bay Tree	0.2				13-16-078-13 W6M
2b	Bay Tree	0.2				
3a	Forth Creek			0.6		04-13-062-07 W6M
3b	Forth Creek			0.6		
9a	Spirit River			1.4		08-12-079-07 W6M
9b	Spirit River			1.2		
18a	Saddle Hills	0.5				04-25-074-07 W6M
18b	Saddle Hills	0.5				
19a	Wanham			0.9		16-22-077-03 W6M
19b	Wanham			1.0		
21a	Eaglesham	0.3				16-21-079-25 W5M
21b	Eaglesham	0.3				
35a	Jean Cote			1.4		12-35-079-21 W5M
35b	Jean Cote			1.3		
40a	McLennan	0.3				03-29-077-19 W5M
40b	McLennan	0.2				
47a	Kinuso		33.3			12-10-073-10 W5M
47b	Kinuso		32.7			
D1a	Duvernay 1	1.0			0.12	04-33-062-20 W5M
D1b	Duvernay 1	0.7			0.16	
G4a	Girouville 4				0.26	04-08-077-22 W5M
G4b	Girouville 4				0.25	
K2a	Kakwa 2			3.4		08-13-063-05 W6M
K2b	Kakwa 2			4.3		
K1a	Kakwa 1	0.5				01-13-063-05 W6M
K1b	Kakwa 1	0.5				
K4a	Kakwa 4				0.15	06-18-063-04 W6M
K4b	Kakwa 4				0.17	
M7a	Miner Wanyandje			2.7		11-13-058-08 W6M
M7b	Miner Wanyandje			1.7		
M9Aa	Miner Pipeline	0.2				12-14-058-08 W6M
M9Ab	Miner Pipeline	0.1				
J5a	Jayar5 Camp			3.4		11-08-062-03 W6M
J5b	Jayar5 Camp			3.5		
J1a	Jayar1 Plant	0.5				06-08-062-03 W6M
J1b	Jayar1 Plant	0.4				
J2a	Jayar2 14-8				0.13	07-08-062-03 W6M
J2b	Jayar2 14-8				0.14	

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
2	Bay Tree	0.2	26.2	2.5	-	13-16-078-13 WSM
3	Forth Creek	0.3	-	0.6	-	04-13-082-07 WSM
5	Boone Creek	0.4	-	1.2	-	01-23-076-11 WSM
7	Steeprock Creek	0.4	-	0.6	-	09-35-072-13 WSM
9	Spirit River	0.4	-	1.3	-	08-12-079-07 WSM
11	Webber Creek	0.6	-	4.6	-	09-36-074-09 WSM
12	Hythe	0.6	-	1.4	-	14-36-072-11 WSM
14	Sylvester	0.2	-	0.9	-	08-06-069-12 WSM
16	Beaverlodge	1.1	-	3.0	-	15-36-071-10 WSM
17	Poplar	0.9	-	2.6	-	13-06-073-08 WSM
18	Saddle Hills	0.6	-	0.9	-	04-25-074-07 WSM
19	Wanham	0.5	-	0.9	-	16-22-077-03 WSM
21	Eaglesham	0.3	-	0.6	-	16-21-079-25 WSM
24	Wembley	0.8	-	2.3	-	12-31-070-08 WSM
25	Pinto Creek	0.4	-	0.8	-	04-24-069-11 WSM
27	Grande Prairie I	1.3	-	10.9	-	08-15-071-06 WSM
29	Smoky Heights	0.6	-	1.9	-	04-06-075-02 WSM
30	Fitzsimmons	0.6	-	1.9	-	16-36-072-03 WSM
32	Gold Creek	0.4	-	2.8	-	06-33-067-05 WSM
35	Jean Cole	0.3	-	1.3	-	12-35-079-21 WSM
36	Guy	0.2	-	0.7	0.17	03-04-076-22 WSM
37	Crooked Creek	0.3	32.2	1.9	-	16-01-071-26 WSM
38	Karr Creek	0.1	-	2.0	-	10-16-066-02 WSM
39	Clouston Creek	0.3	-	0.9	-	12-01-073-22 WSM
40	McLennan	0.2	-	1.1	-	03-29-077-19 WSM
42	Sunset House	0.3	-	0.8	-	05-32-070-19 WSM
44	Peavine	0.2	-	1.4	-	03-05-079-16 WSM
46	Little Smoky	0.2	-	3.4	-	12-01-065-21 WSM
47	Kinuso	0.2	33.0	1.0	-	12-10-073-10 WSM
48	Deer Mountain	0.2	-	1.3	-	15-22-068-09 WSM
49	Henry Parker	0.8	-	8.4	-	17-26-071-06 WSM
50	East Prairie	0.2	-	0.7	-	11-13-079-08 WSM
D1	Duvernay 1	0.9	-	-	0.14	04-33-062-20 WSM
D2	Duvernay 2	0.5	-	-	0.13	04-33-062-20 WSM
D3	Duvernay 3	0.9	-	-	0.11	04-33-062-20 WSM
D4	Duvernay 4	1.3	-	-	0.25	04-33-062-20 WSM
G3	Grouxville 3	-	-	-	0.70	14-02-077-23 WSM
G4	Grouxville 4	-	-	-	0.26	04-08-077-22 WSM
K1	Kakwa 1	0.5	-	4.0	0.09	01-13-063-05 WSM
K2	Kakwa 2	1.1	-	3.9	0.09	08-13-063-05 WSM
K3	Kakwa 3	2.6	-	4.0	0.18	12-18-063-04 WSM
K4	Kakwa 4	3.5	-	4.7	0.16	06-18-063-04 WSM
M1	Milner Pipeline	0.2	-	3.1	-	12-14-058-08 WSM
M2	Milner Bridge	0.1	-	2.7	-	08-06-057-08 WSM
M3	Milner Waryande	0.2	-	2.2	-	11-13-058-08 WSM
M4	Milner Ambient Trailer	0.2	-	3.3	-	09-15-058-08 WSM
M5	Milner Powerline	0.2	-	3.9	-	06-14-058-08 WSM
J1	Jayar1 Plant	0.5	-	2.3	0.06	06-08-062-03 WSM
J2	Jayar2 14-8	0.8	-	4.8	0.14	07-08-062-03 WSM
J3	Jayar3 Bone Yard	0.9	-	1.6	0.07	14-08-062-03 WSM
J4	Jayar4 7-8 or 8-8 Pad	0.7	-	1.3	0.11	10-08-062-03 WSM
J5	Jayar5 Camp	0.5	-	3.5	0.13	11-08-062-03 WSM

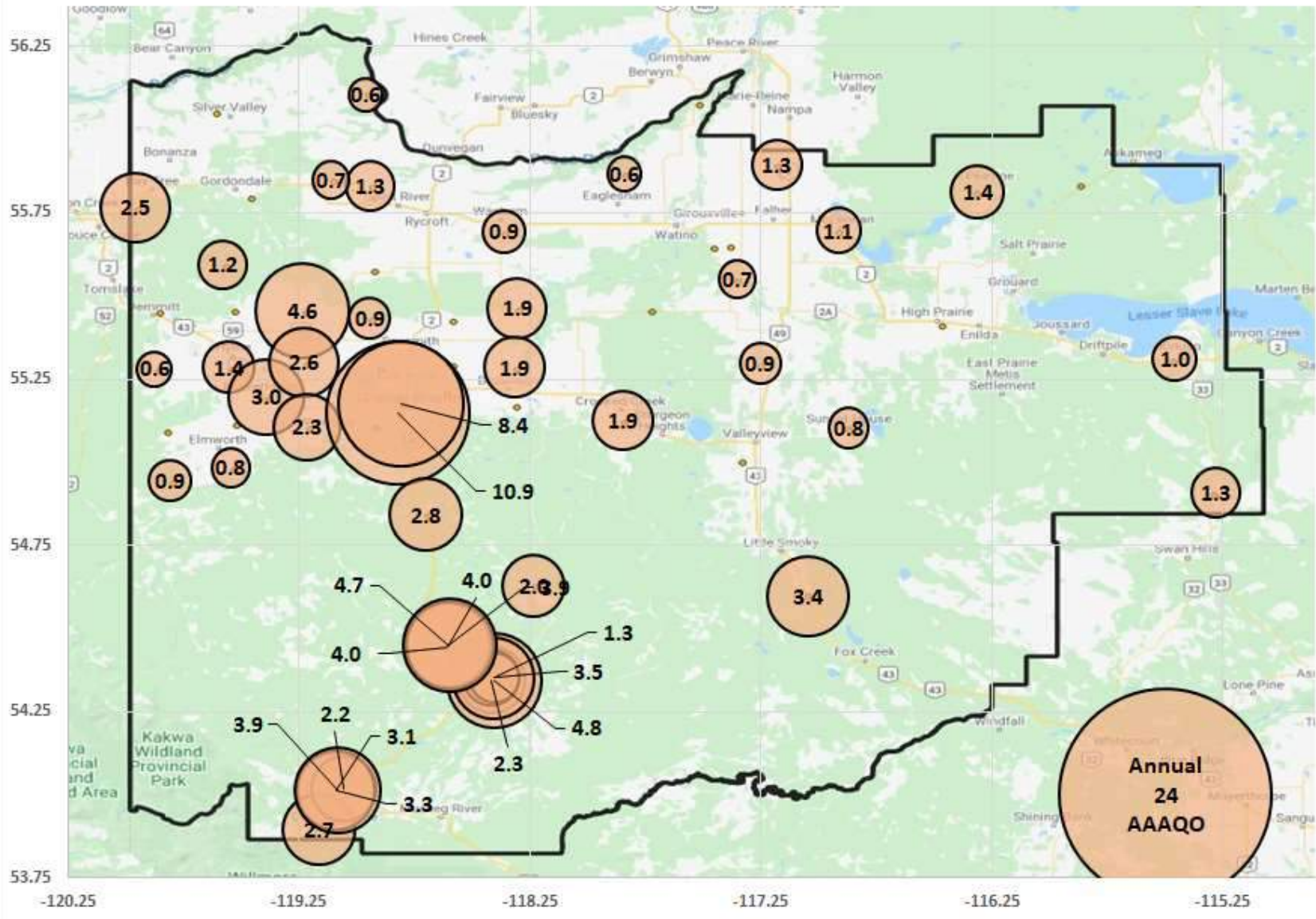
Passive Summary for February 2024

Stats	Sulphur Dioxide SO ₂ ppb	Ozone O ₃ ppb	Nitrogen Dioxide NO ₂ ppb	Hydrogen Sulphide H ₂ S ppb
Passive Summary for February 2024 (PAZA)				
Mean	0.6	30.5	2.4	0.2
Standard Deviation	0.6	3.7	2.0	0.2
Minimum	0.1	26.2	0.6	0.1
Maximum	Milner Bridge (#M2)	Bay Tree (#2)	Eaglesham (#21)	Jayar1 Plant (#J1)
	3.5 Kakwa 4 (#K4)	33.0 Kinuso (#47)	10.9 Grande Prairie I (#27)	0.7 Girouxville 3 (#G3)
Continuous and Passive Monitoring Comparision				
PAZA Beaverlodge Station	1.0	26.1	7.5	-
Beaverlodge Passive (#16)	1.1	-	3.0	-
PAZA Henry Pirker Station	0.8	18.0	16.2	0.3
Henry Pirker passive (#49)	0.8	-	8.4	-
Milner Station	-	-	5.3	-
Milner passive	0.2	-	3.3	-

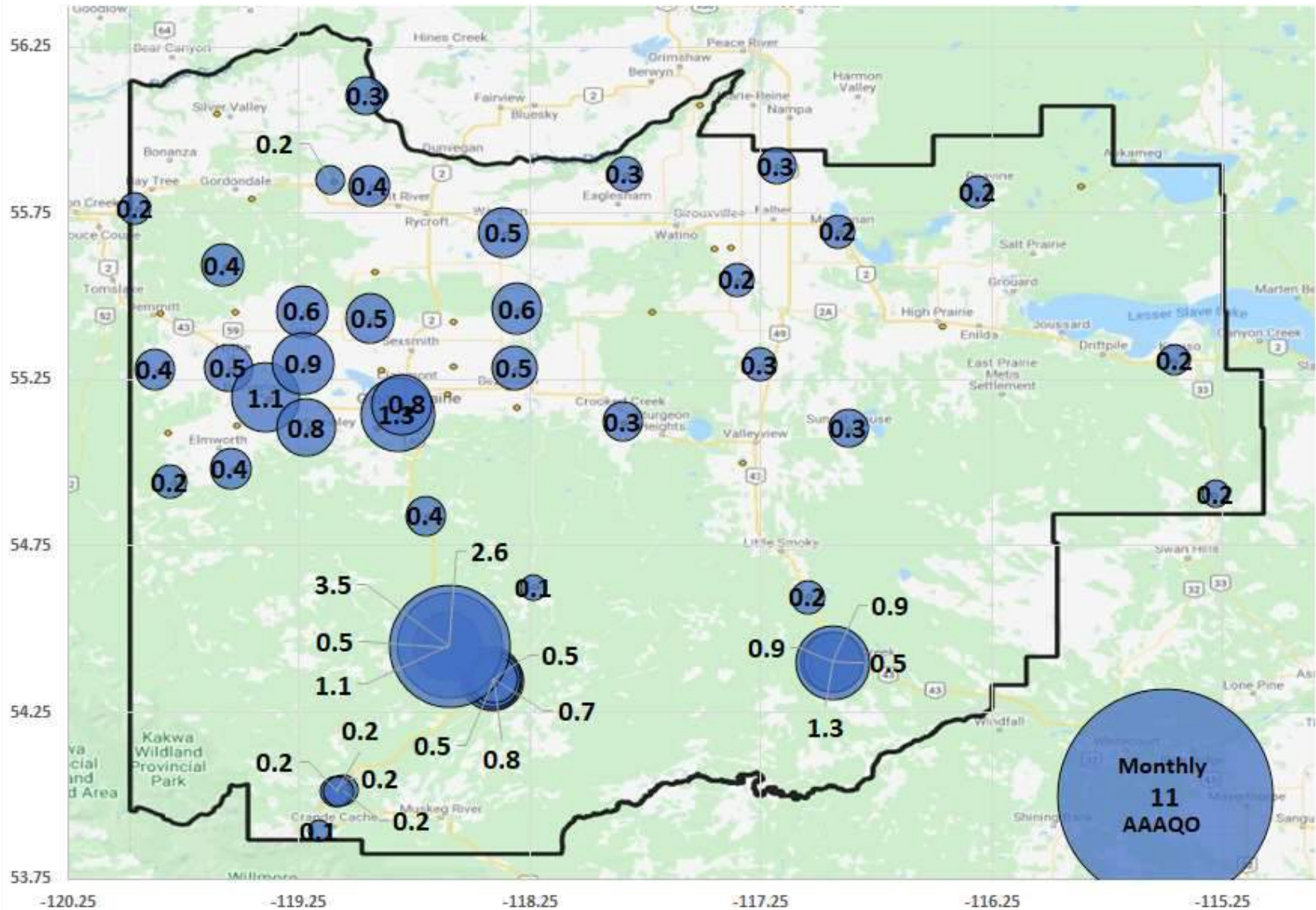




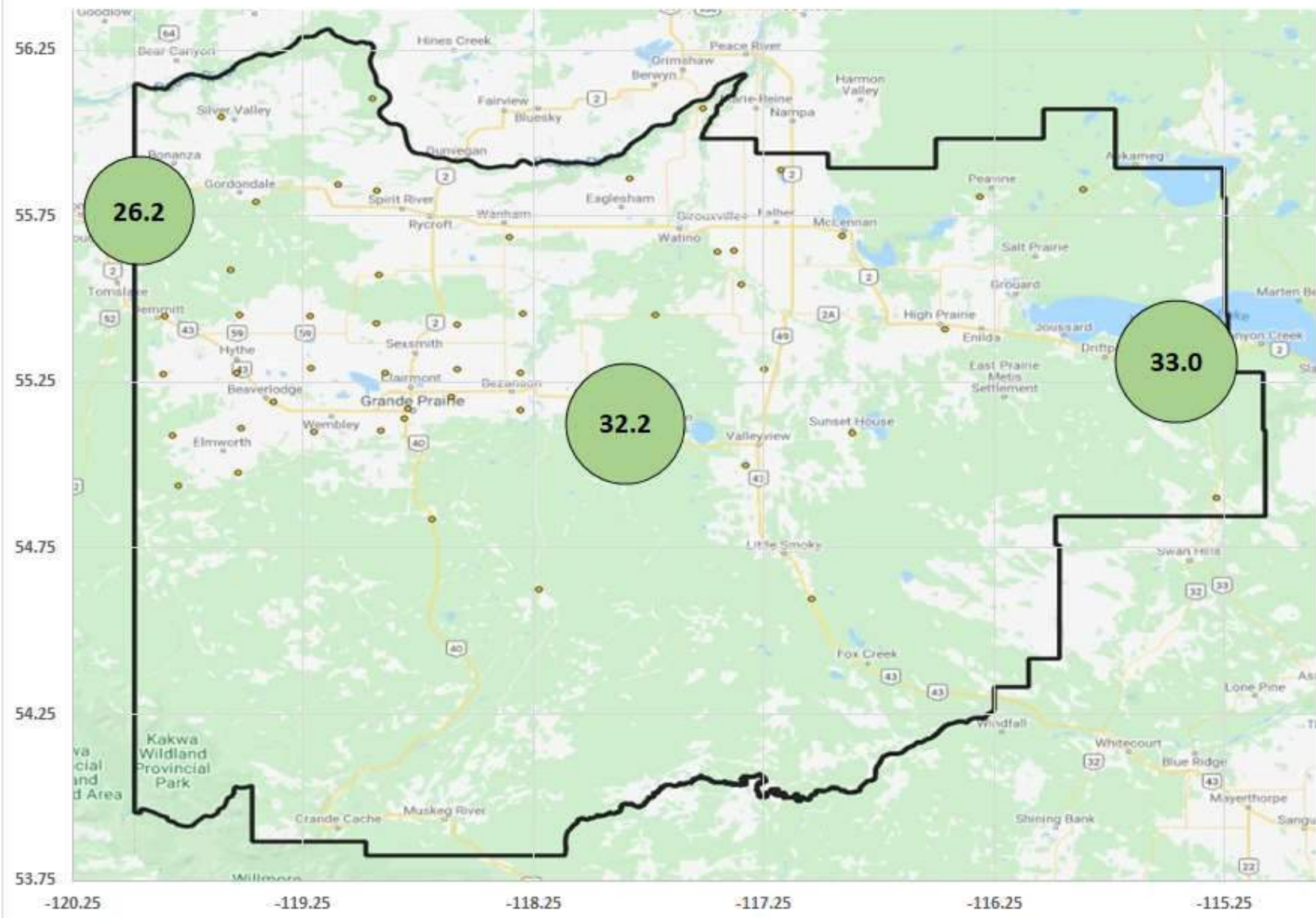
NO₂ Monthly Average (units in ppb)



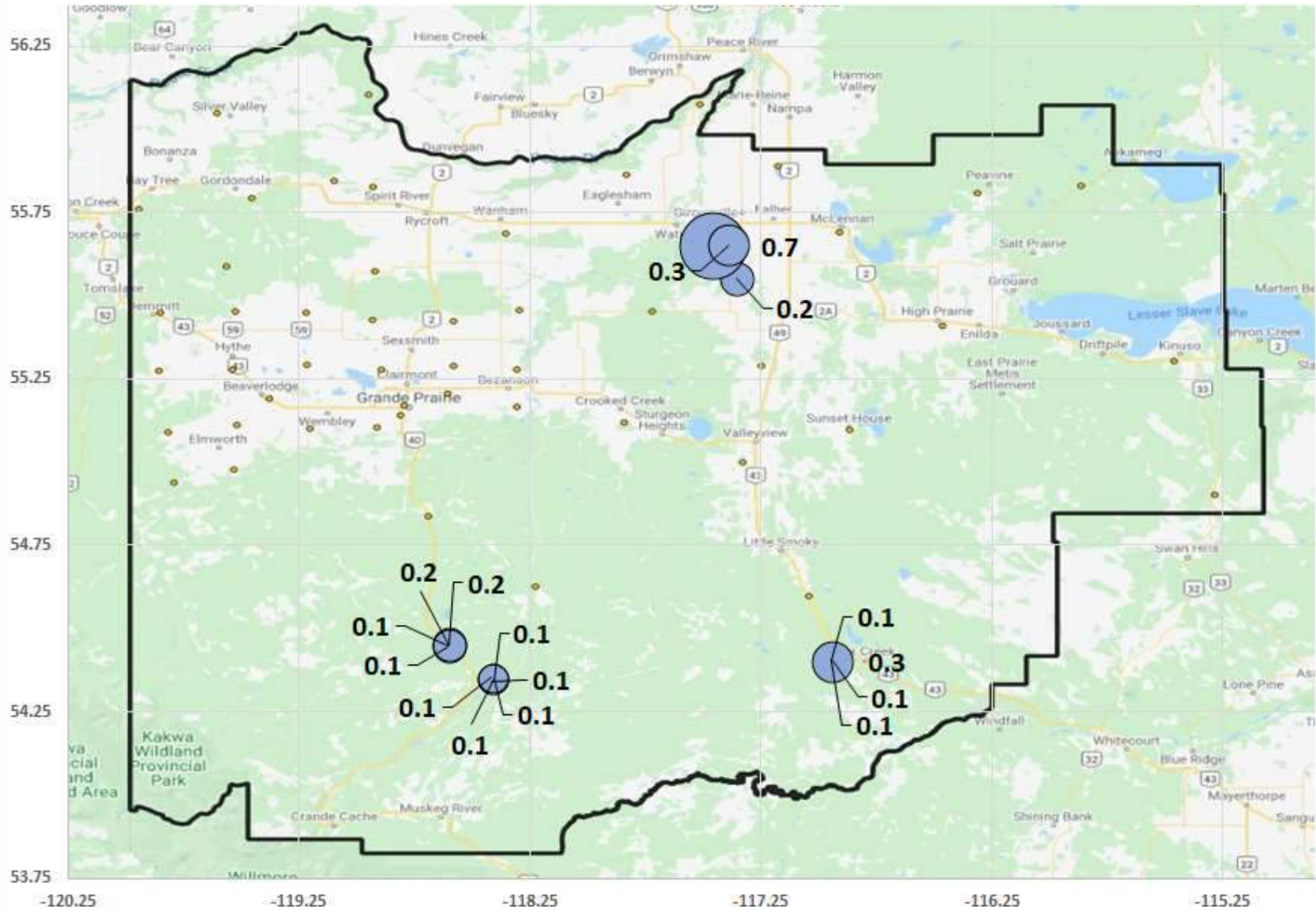
SO₂ Monthly Average (units in ppb)



O₃ Monthly Average (units in ppb)



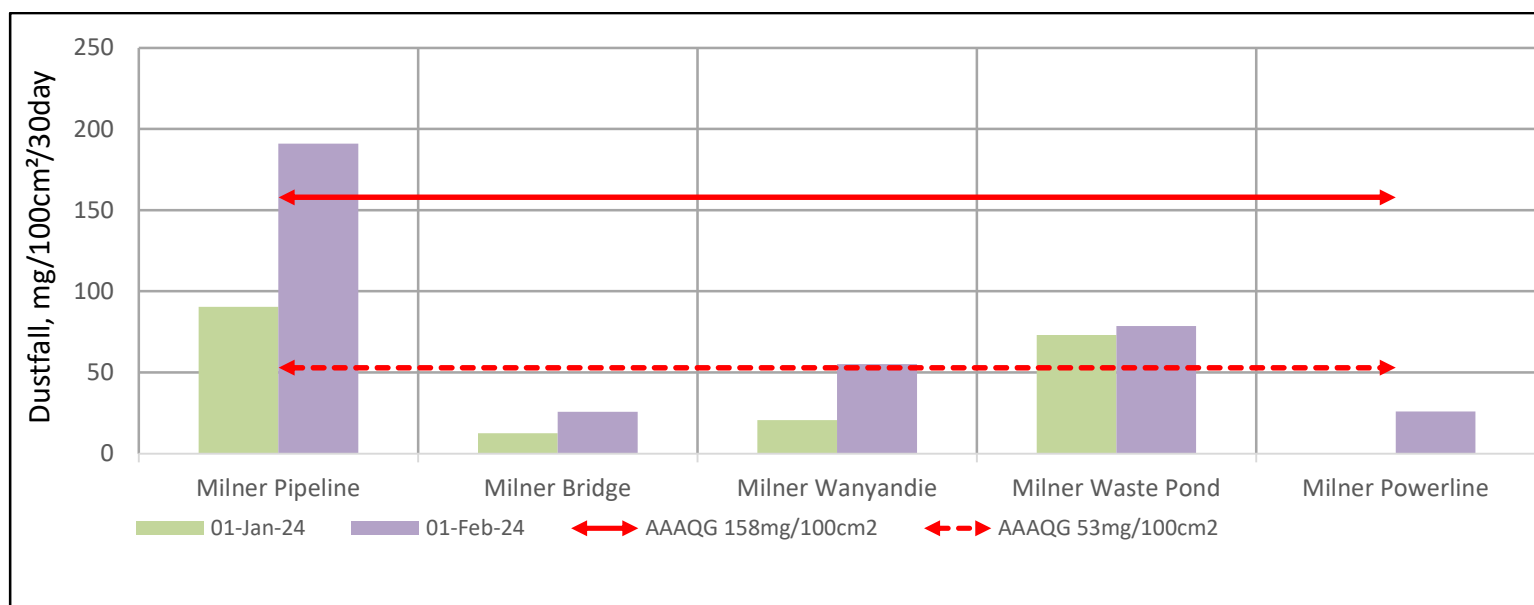
H₂S Monthly Average (units in ppb)



12 Dustfall Monitoring Data

Milner Dustfall Samples February 2024

Exposure Month	Year	Sample	Total Dustfall (30 day) mg/100cm ² /30day	Fixed Dustfall (30 day) mg/100cm ² /30day	Exposure days	Field Notes
February	2024	Milner Pipeline	191.0	72.7	30	
February	2024	Milner Bridge	25.7	14.7	30	
February	2024	Milner Wanyandie	55.2	0.0	30	Fixed Dustfall below detection limit
February	2024	Milner Waste Pond	78.6	23.5	30	
February	2024	Milner Powerline	26.0	8.2	59/2	This is Jan pick up, no access in Feb., Results divided by 2 to account for 30d; RPD 11%/22%
February	2024	Milner Powerline Dup	29.0	10.3	59/2	Train blocking the tracks - no access



End of Report



Peace Airshed Zone Association

Ambient Air Monitoring Report

February 2024