



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

May 2024

June 30, 2024

Alberta Environment and Protected Areas

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

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

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of May 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, Happy Valley-Portable and Milner.

Detailed Summaries are included in the report.

The Poplar-Portable was shutdown at the end of April for movement to Happy Valley in May

Calibration and Data Submission:

Monthly report, hourly data and calibration reports for May 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:

There were 13 readings above the 24hr PM_{2.5} AAAQO, 198 readings above the 1hr PM_{2.5} AAAQG for the month, the following is the summary:

One-hr readings above the PM_{2.5} AAAQO (80µg/m³) recorded as follows:

Site	reference	Pollutant	Date	From MST	To MST	Average µg/m ³	WS km/hr	WD degrees
Beaverlodge	427955	PM _{2.5}	2024-05-11	03:00	04:00	689.8	9.1	49
Beaverlodge	427955	PM _{2.5}	2024-05-11	04:00	05:00	1125.0	10.1	24
Beaverlodge	427955	PM _{2.5}	2024-05-11	05:00	06:00	1043.2	6.6	357
Beaverlodge	427955	PM _{2.5}	2024-05-11	06:00	07:00	1025.1	5.9	326
Beaverlodge	427955	PM _{2.5}	2024-05-11	07:00	08:00	1169.9	7.0	354
Beaverlodge	427955	PM _{2.5}	2024-05-11	08:00	09:00	1203.1	3.9	335
Beaverlodge	427955	PM _{2.5}	2024-05-11	09:00	10:00	1307.6	7.5	6
Beaverlodge	427955	PM _{2.5}	2024-05-11	10:00	11:00	1317.9	2.2	69
Beaverlodge	427955	PM _{2.5}	2024-05-11	11:00	12:00	1323.2	1.1	100
Beaverlodge	427955	PM _{2.5}	2024-05-11	12:00	13:00	1315.6	4.3	236
Beaverlodge	427955	PM _{2.5}	2024-05-11	13:00	14:00	1270.3	2.1	210
Beaverlodge	427955	PM _{2.5}	2024-05-11	14:00	15:00	1200.5	4.7	104
Beaverlodge	427955	PM _{2.5}	2024-05-11	15:00	16:00	1164.9	1.4	29
Beaverlodge	427955	PM _{2.5}	2024-05-11	16:00	17:00	1167.5	2.9	49
Beaverlodge	427955	PM _{2.5}	2024-05-11	17:00	18:00	1113.9	2.9	57
Beaverlodge	427955	PM _{2.5}	2024-05-11	18:00	19:00	995.7	3.5	137
Beaverlodge	427955	PM _{2.5}	2024-05-11	19:00	20:00	872.8	5.6	102
Beaverlodge	427955	PM _{2.5}	2024-05-11	20:00	21:00	857.7	7.2	96
Beaverlodge	427955	PM _{2.5}	2024-05-11	21:00	22:00	870.1	6.2	76
Beaverlodge	427955	PM _{2.5}	2024-05-11	22:00	23:00	871.8	5.3	70
Beaverlodge	427955	PM _{2.5}	2024-05-12	23:00	00:00	862.6	3.2	95
Beaverlodge	427955	PM _{2.5}	2024-05-12	00:00	01:00	799.3	6.1	77
Beaverlodge	427955	PM _{2.5}	2024-05-12	01:00	02:00	751.5	0.9	121
Beaverlodge	427955	PM _{2.5}	2024-05-12	02:00	03:00	733.7	2.1	95
Beaverlodge	427955	PM _{2.5}	2024-05-12	03:00	04:00	780.3	1.3	162
Beaverlodge	427955	PM _{2.5}	2024-05-12	04:00	05:00	770.4	1.3	112
Beaverlodge	427955	PM _{2.5}	2024-05-12	05:00	06:00	739.2	0.6	46
Beaverlodge	427955	PM _{2.5}	2024-05-12	06:00	07:00	620.1	3.4	144
Beaverlodge	427955	PM _{2.5}	2024-05-12	07:00	08:00	399.6	5.5	217
Dunes	427956	PM _{2.5}	2024-05-11	02:00	03:00	443.0	7.1	19
Dunes	427956	PM _{2.5}	2024-05-11	03:00	04:00	668.3	3.4	29
Dunes	427956	PM _{2.5}	2024-05-11	04:00	05:00	690.2	1.6	332
Dunes	427956	PM _{2.5}	2024-05-11	05:00	06:00	749.5	0.4	352
Dunes	427956	PM _{2.5}	2024-05-11	06:00	07:00	803.1	1.2	332
Dunes	427956	PM _{2.5}	2024-05-11	07:00	08:00	954.2	0.9	297
Dunes	427956	PM _{2.5}	2024-05-11	08:00	09:00	996.1	1.2	216
Dunes	427956	PM _{2.5}	2024-05-11	09:00	10:00	997.0	0.0	327
Dunes	427956	PM _{2.5}	2024-05-11	10:00	11:00	997.0	0.6	53
Dunes	427956	PM _{2.5}	2024-05-11	11:00	12:00	996.8	0.8	177
Dunes	427956	PM _{2.5}	2024-05-11	12:00	13:00	854.5	1.3	93
Dunes	427956	PM _{2.5}	2024-05-11	13:00	14:00	800.7	2.1	203
Dunes	427956	PM _{2.5}	2024-05-11	14:00	15:00	779.2	1.4	145
Dunes	427956	PM _{2.5}	2024-05-11	15:00	16:00	749.6	2.3	183
Dunes	427956	PM _{2.5}	2024-05-11	16:00	17:00	481.5	2.6	197
Dunes	427956	PM _{2.5}	2024-05-11	17:00	18:00	435.1	1.4	289
Dunes	427956	PM _{2.5}	2024-05-11	18:00	19:00	499.1	0.8	13
Dunes	427956	PM _{2.5}	2024-05-11	19:00	20:00	486.0	0.3	283
Dunes	427956	PM _{2.5}	2024-05-11	20:00	21:00	486.3	0.4	252
Dunes	427956	PM _{2.5}	2024-05-11	21:00	22:00	479.5	0.2	256

Site	reference	Pollutant	Date	From	To	Average	WS	WD
Dunes	427956	PM _{2.5}	2024-05-11	22:00	23:00	441.9	0.2	237
Dunes	427956	PM _{2.5}	2024-05-12	23:00	00:00	399.1	0.3	244
Dunes	427956	PM _{2.5}	2024-05-12	00:00	01:00	390.7	0.2	313
Dunes	427956	PM _{2.5}	2024-05-12	01:00	02:00	389.9	0.5	305
Dunes	427956	PM _{2.5}	2024-05-12	02:00	03:00	394.2	0.8	300
Dunes	427956	PM _{2.5}	2024-05-12	03:00	04:00	408.0	0.4	226
Dunes	427956	PM _{2.5}	2024-05-12	04:00	05:00	404.2	0.5	280
Dunes	427956	PM _{2.5}	2024-05-12	05:00	06:00	417.9	0.7	279
Dunes	427956	PM _{2.5}	2024-05-12	06:00	07:00	484.9	2.0	212
Dunes	427956	PM _{2.5}	2024-05-12	07:00	08:00	466.7	1.5	216
Dunes	427956	PM _{2.5}	2024-05-12	08:00	09:00	97.2	6.3	254
Henry Pirker	427954	PM _{2.5}	2024-05-11	02:00	03:00	714.1	6.8	21
Henry Pirker	427954	PM _{2.5}	2024-05-11	03:00	04:00	974.4	2.0	29
Henry Pirker	427954	PM _{2.5}	2024-05-11	04:00	05:00	1031.9	2.5	299
Henry Pirker	427954	PM _{2.5}	2024-05-11	05:00	06:00	1092.6	3.4	344
Henry Pirker	427954	PM _{2.5}	2024-05-11	06:00	07:00	1094.8	2.7	321
Henry Pirker	427954	PM _{2.5}	2024-05-11	07:00	08:00	1001.0	3.7	313
Henry Pirker	427954	PM _{2.5}	2024-05-11	08:00	09:00	1119.2	3.0	307
Henry Pirker	427954	PM _{2.5}	2024-05-11	09:00	10:00	1194.3	1.8	286
Henry Pirker	427954	PM _{2.5}	2024-05-11	10:00	11:00	1218.1	0.8	142
Henry Pirker	427954	PM _{2.5}	2024-05-11	11:00	12:00	1029.6	3.3	134
Henry Pirker	427954	PM _{2.5}	2024-05-11	12:00	13:00	927.1	1.6	110
Henry Pirker	427954	PM _{2.5}	2024-05-11	13:00	14:00	878.6	4.3	168
Henry Pirker	427954	PM _{2.5}	2024-05-11	14:00	15:00	876.2	3.2	148
Henry Pirker	427954	PM _{2.5}	2024-05-11	15:00	16:00	810.1	3.9	129
Henry Pirker	427954	PM _{2.5}	2024-05-11	16:00	17:00	769.8	1.2	232
Henry Pirker	427954	PM _{2.5}	2024-05-11	17:00	18:00	762.1	2.6	300
Henry Pirker	427954	PM _{2.5}	2024-05-11	18:00	19:00	726.4	1.2	22
Henry Pirker	427954	PM _{2.5}	2024-05-11	19:00	20:00	722.2	0.9	101
Henry Pirker	427954	PM _{2.5}	2024-05-11	20:00	21:00	715.6	1.3	78
Henry Pirker	427954	PM _{2.5}	2024-05-11	21:00	22:00	689.6	2.0	90
Henry Pirker	427954	PM _{2.5}	2024-05-11	22:00	23:00	551.2	2.8	102
Henry Pirker	427954	PM _{2.5}	2024-05-12	23:00	00:00	572.7	1.9	156
Henry Pirker	427954	PM _{2.5}	2024-05-12	00:00	01:00	573.2	0.1	183
Henry Pirker	427954	PM _{2.5}	2024-05-12	01:00	02:00	585.6	1.5	319
Henry Pirker	427954	PM _{2.5}	2024-05-12	02:00	03:00	519.1	2.5	296
Henry Pirker	427954	PM _{2.5}	2024-05-12	03:00	04:00	479.7	1.4	290
Henry Pirker	427954	PM _{2.5}	2024-05-12	04:00	05:00	470.8	3.6	308
Henry Pirker	427954	PM _{2.5}	2024-05-12	05:00	06:00	505.9	3.4	305
Henry Pirker	427954	PM _{2.5}	2024-05-12	06:00	07:00	535.8	2.8	300
Henry Pirker	427954	PM _{2.5}	2024-05-12	07:00	08:00	445.2	3.0	256
Henry Pirker	427954	PM _{2.5}	2024-05-12	08:00	09:00	225.0	10.4	238
Smoky Heights	427959	PM _{2.5}	2024-05-10	19:00	20:00	132.3	40.2	269
Smoky Heights	427959	PM _{2.5}	2024-05-11	01:00	02:00	583.1	13.8	25
Smoky Heights	427959	PM _{2.5}	2024-05-11	02:00	03:00	990.0	6.8	346
Smoky Heights	427959	PM _{2.5}	2024-05-11	03:00	04:00	990.0	7.5	316
Smoky Heights	427959	PM _{2.5}	2024-05-11	04:00	05:00	990.0	8.8	335
Smoky Heights	427959	PM _{2.5}	2024-05-11	05:00	06:00	990.0	8.3	338
Smoky Heights	427959	PM _{2.5}	2024-05-11	13:00	14:00	876.3	5.2	84
Smoky Heights	427959	PM _{2.5}	2024-05-11	14:00	15:00	553.5	2.6	68
Smoky Heights	427959	PM _{2.5}	2024-05-11	15:00	16:00	677.8	4.9	144
Smoky Heights	427959	PM _{2.5}	2024-05-11	16:00	17:00	861.3	2.7	296
Smoky Heights	427959	PM _{2.5}	2024-05-11	17:00	18:00	841.1	1.9	348
Smoky Heights	427959	PM _{2.5}	2024-05-11	18:00	19:00	800.3	2.3	25
Smoky Heights	427959	PM _{2.5}	2024-05-11	19:00	20:00	664.0	1.7	79

Site	reference	Pollutant	Date	From	To	Average	WS	WD
Smoky Heights	427959	PM _{2.5}	2024-05-11	20:00	21:00	378.0	0.9	269
Smoky Heights	427959	PM _{2.5}	2024-05-11	21:00	22:00	274.7	2.1	302
Smoky Heights	427959	PM _{2.5}	2024-05-11	22:00	23:00	307.8	2.3	245
Smoky Heights	427959	PM _{2.5}	2024-05-12	23:00	00:00	394.5	4.1	207
Smoky Heights	427959	PM _{2.5}	2024-05-12	00:00	01:00	384.6	2.1	254
Smoky Heights	427959	PM _{2.5}	2024-05-12	01:00	02:00	344.5	3.7	268
Smoky Heights	427959	PM _{2.5}	2024-05-12	02:00	03:00	275.6	4.7	252
Smoky Heights	427959	PM _{2.5}	2024-05-12	03:00	04:00	248.2	4.5	247
Smoky Heights	427959	PM _{2.5}	2024-05-12	04:00	05:00	242.1	5.8	245
Smoky Heights	427959	PM _{2.5}	2024-05-12	05:00	06:00	280.9	6.7	221
Smoky Heights	427959	PM _{2.5}	2024-05-12	06:00	07:00	292.7	7.9	212
Smoky Heights	427959	PM _{2.5}	2024-05-12	07:00	08:00	304.1	6.7	239
Smoky Heights	427959	PM _{2.5}	2024-05-12	08:00	09:00	89.4	16.8	260
Fox Creek	429594	PM _{2.5}	2024-05-11	04:00	05:00	279.7	3.3	325
Fox Creek	429594	PM _{2.5}	2024-05-11	05:00	06:00	308.7	2.8	325
Fox Creek	429594	PM _{2.5}	2024-05-11	06:00	07:00	431.5	1.0	277
Fox Creek	429594	PM _{2.5}	2024-05-11	07:00	08:00	579.4	2.1	294
Fox Creek	429594	PM _{2.5}	2024-05-11	08:00	09:00	803.3	3.2	324
Fox Creek	429594	PM _{2.5}	2024-05-11	09:00	10:00	811.0	3.2	348
Fox Creek	429594	PM _{2.5}	2024-05-11	10:00	11:00	817.4	2.2	288
Fox Creek	429594	PM _{2.5}	2024-05-11	11:00	12:00	801.2	2.3	22
Fox Creek	429594	PM _{2.5}	2024-05-11	12:00	13:00	739.7	3.6	54
Fox Creek	429594	PM _{2.5}	2024-05-11	13:00	14:00	595.8	4.1	28
Fox Creek	429594	PM _{2.5}	2024-05-11	14:00	15:00	463.8	5.6	55
Fox Creek	429594	PM _{2.5}	2024-05-11	15:00	16:00	357.9	5.2	60
Fox Creek	429594	PM _{2.5}	2024-05-11	16:00	17:00	366.3	5.5	50
Fox Creek	429594	PM _{2.5}	2024-05-11	17:00	18:00	406.5	4.3	47
Fox Creek	429594	PM _{2.5}	2024-05-11	18:00	19:00	418.0	2.4	25
Fox Creek	429594	PM _{2.5}	2024-05-11	19:00	20:00	409.2	0.7	305
Fox Creek	429594	PM _{2.5}	2024-05-11	20:00	21:00	398.4	0.8	199
Fox Creek	429594	PM _{2.5}	2024-05-11	21:00	22:00	375.1	1.7	183
Fox Creek	429594	PM _{2.5}	2024-05-11	22:00	23:00	364.9	2.2	169
Fox Creek	429594	PM _{2.5}	2024-05-12	23:00	00:00	349.7	1.2	205
Fox Creek	429594	PM _{2.5}	2024-05-12	00:00	01:00	337.3	0.8	244
Fox Creek	429594	PM _{2.5}	2024-05-12	01:00	02:00	326.8	0.7	226
Fox Creek	429594	PM _{2.5}	2024-05-12	02:00	03:00	306.2	0.8	200
Fox Creek	429594	PM _{2.5}	2024-05-12	03:00	04:00	282.0	0.8	196
Fox Creek	429594	PM _{2.5}	2024-05-12	04:00	05:00	264.3	1.1	176
Fox Creek	429594	PM _{2.5}	2024-05-12	05:00	06:00	247.3	1.1	182
Fox Creek	429594	PM _{2.5}	2024-05-12	06:00	07:00	236.6	1.1	185
Fox Creek	429594	PM _{2.5}	2024-05-12	07:00	08:00	234.6	4.5	211
Fox Creek	429594	PM _{2.5}	2024-05-12	08:00	09:00	249.0	3.0	186
Fox Creek	429594	PM _{2.5}	2024-05-12	09:00	10:00	261.5	4.4	317
Fox Creek	429594	PM _{2.5}	2024-05-12	10:00	11:00	289.5	8.7	294
Fox Creek	429594	PM _{2.5}	2024-05-12	11:00	12:00	243.4	6.7	351
Fox Creek	429594	PM _{2.5}	2024-05-12	12:00	13:00	149.8	7.7	28
Fox Creek	429594	PM _{2.5}	2024-05-12	13:00	14:00	96.0	7.2	48
Happy Valley	427957	PM _{2.5}	2024-05-11	00:00	01:00	126.8	7.7	342
Happy Valley	427957	PM _{2.5}	2024-05-11	01:00	02:00	1003.4	13.0	28
Happy Valley	427957	PM _{2.5}	2024-05-11	02:00	03:00	1321.6	2.1	198
Happy Valley	427957	PM _{2.5}	2024-05-11	03:00	04:00	1354.0	4.3	231
Happy Valley	427957	PM _{2.5}	2024-05-11	04:00	05:00	1362.0	4.6	248
Happy Valley	427957	PM _{2.5}	2024-05-11	05:00	06:00	1378.5	8.3	260
Happy Valley	427957	PM _{2.5}	2024-05-11	06:00	07:00	1351.8	6.9	252
Happy Valley	427957	PM _{2.5}	2024-05-11	07:00	08:00	1280.5	5.7	254

Site	reference	Pollutant	Date	From	To	Average	WS	WD
Happy Valley	427957	PM _{2.5}	2024-05-11	08:00	09:00	1011.3	6.2	269
Happy Valley	427957	PM _{2.5}	2024-05-11	09:00	10:00	858.3	4.3	276
Happy Valley	427957	PM _{2.5}	2024-05-11	10:00	11:00	814.3	1.5	303
Happy Valley	427957	PM _{2.5}	2024-05-11	11:00	12:00	733.3	4.9	20
Happy Valley	427957	PM _{2.5}	2024-05-11	12:00	13:00	737.0	3.5	68
Happy Valley	427957	PM _{2.5}	2024-05-11	13:00	14:00	596.6	6.1	86
Happy Valley	427957	PM _{2.5}	2024-05-11	14:00	15:00	487.3	8.8	96
Happy Valley	427957	PM _{2.5}	2024-05-11	15:00	16:00	502.8	10.3	101
Happy Valley	427957	PM _{2.5}	2024-05-11	16:00	17:00	633.5	8.1	134
Happy Valley	427957	PM _{2.5}	2024-05-11	17:00	18:00	936.9	9.8	182
Happy Valley	427957	PM _{2.5}	2024-05-11	18:00	19:00	837.5	5.8	156
Happy Valley	427957	PM _{2.5}	2024-05-11	19:00	20:00	787.9	5.0	112
Happy Valley	427957	PM _{2.5}	2024-05-11	20:00	21:00	731.1	5.1	116
Happy Valley	427957	PM _{2.5}	2024-05-11	21:00	22:00	659.3	5.4	162
Happy Valley	427957	PM _{2.5}	2024-05-11	22:00	23:00	650.7	10.7	182
Happy Valley	427957	PM _{2.5}	2024-05-12	23:00	00:00	675.6	16.7	193
Happy Valley	427957	PM _{2.5}	2024-05-12	00:00	01:00	662.4	14.8	198
Happy Valley	427957	PM _{2.5}	2024-05-12	01:00	02:00	584.7	18.1	193
Happy Valley	427957	PM _{2.5}	2024-05-12	02:00	03:00	546.4	18.1	198
Happy Valley	427957	PM _{2.5}	2024-05-12	03:00	04:00	525.9	15.6	206
Happy Valley	427957	PM _{2.5}	2024-05-12	04:00	05:00	375.2	6.4	230
Happy Valley	427957	PM _{2.5}	2024-05-12	05:00	06:00	191.1	7.0	240
Milner	427960	PM _{2.5}	2024-05-11	18:00	19:00	205.9	2.9	50
Milner	427960	PM _{2.5}	2024-05-11	19:00	20:00	524.7	5.1	70
Milner	427960	PM _{2.5}	2024-05-11	20:00	21:00	630.1	3.3	63
Milner	427960	PM _{2.5}	2024-05-11	21:00	22:00	575.2	4.3	43
Milner	427960	PM _{2.5}	2024-05-11	22:00	23:00	568.2	4.1	53
Milner	427961	PM _{2.5}	2024-05-12	23:00	00:00	533.3	1.3	360
Milner	427961	PM _{2.5}	2024-05-12	00:00	01:00	511.4	1.7	32
Milner	427961	PM _{2.5}	2024-05-12	01:00	02:00	506.6	1.4	287
Milner	427961	PM _{2.5}	2024-05-12	02:00	03:00	501.3	1.0	314
Milner	427961	PM _{2.5}	2024-05-12	03:00	04:00	471.5	0.9	346
Milner	427961	PM _{2.5}	2024-05-12	04:00	05:00	390.5	0.4	273
Milner	427961	PM _{2.5}	2024-05-12	05:00	06:00	359.1	0.7	309
Milner	427961	PM _{2.5}	2024-05-12	06:00	07:00	316.5	3.7	242
Milner	427961	PM _{2.5}	2024-05-12	07:00	08:00	202.1	2.0	231
Milner	427961	PM _{2.5}	2024-05-12	08:00	09:00	114.8	4.7	249

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

Site	reference	Pollutant	Date	Average µg/m ³	WS km/hr	WD degrees
Beaverlodge	427955	PM _{2.5}	May 11, 2024	949.9	5.6	23
Beaverlodge	427955	PM _{2.5}	May 12, 2024	236.1	16.8	250
Dunes	427956	PM _{2.5}	May 11, 2024	632.9	1.5	321
Dunes	427956	PM _{2.5}	May 12, 2024	145.2	4.7	261
Henry Pirker	427954	PM _{2.5}	May 11, 2024	811.6	2.8	342
Henry Pirker	427954	PM _{2.5}	May 12, 2024	184.8	10.7	249
Smoky Heights	427959	PM _{2.5}	May 12, 2024	109.1	14.8	249
Fox Creek	429594	PM _{2.5}	May 11, 2024	422.2	3.7	353
Fox Creek	429594	PM _{2.5}	May 12, 2024	156.5	3.1	344
Happy Valley	427957	PM _{2.5}	May 11, 2024	868.0	6.9	170
Happy Valley	427957	PM _{2.5}	May 12, 2024	133.3	13.4	246
Milner	427960	PM _{2.5}	May 11, 2024	137.5	5.6	195
Milner	427961	PM _{2.5}	May 12, 2024	144.9	10.3	237

Operational times less than 90 percent

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

Air Incidents

May 11-12, 2024 was a high smoke event in the region resulting in several readings above the AAAQG and AAAQO through the region.

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
 - **Duvernay 4 duplicate was missing for SO₂ and Eaglesham NO₂ was damaged**

There were 19 duplicates sampled in the month of May (Duvernay 4 duplicate was missing):

- Seven SO₂ duplicates located at Forth Creek, Spirit River, Grande Prairie I, Sunset House, Duvernay 4 (missing), Kakwa 4, Milner Wanyandie, Jayar2 14-8
 - RPD ranging from 9% to 80% with 2 fails (Sunset House (0.2 and 0.3 ppb) and Milner Wanyandie (0.7 and 0.3 ppb) both failed)
- One O₃ duplicate located at Bay Tree
 - RPD 3% (no fails)
- Seven NO₂ duplicates at Bay Tree, Boone Creek, Crooked Creek, Karr Creek, Kakwa 3, Milner Pipeline, Jayar1 Plant
 - RPD ranging from 3% to 23% (no fails)
- Four H₂S duplicates at Guy, Duvernay 4, Kakwa 1, Jayar5 Camp
 - RPD 2% to 79% with 1 fail (Guy, 0.31 and 0.14)

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall
- Total dustfall ranged from 10.8 to 70.0 mg/100cm²/30day.
- RPD ranged from 5% to 6% (no fails)

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.

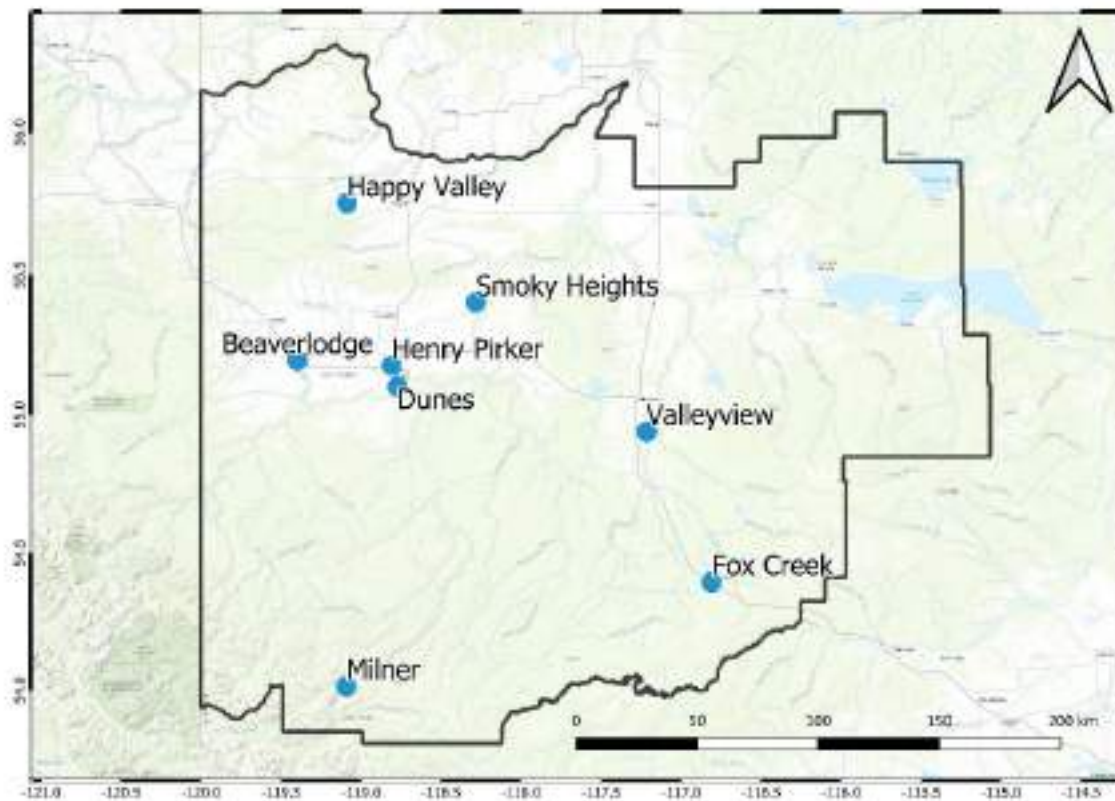


Mandeep Dhaliwal, B.Sc., P.Chem.
Program Manager

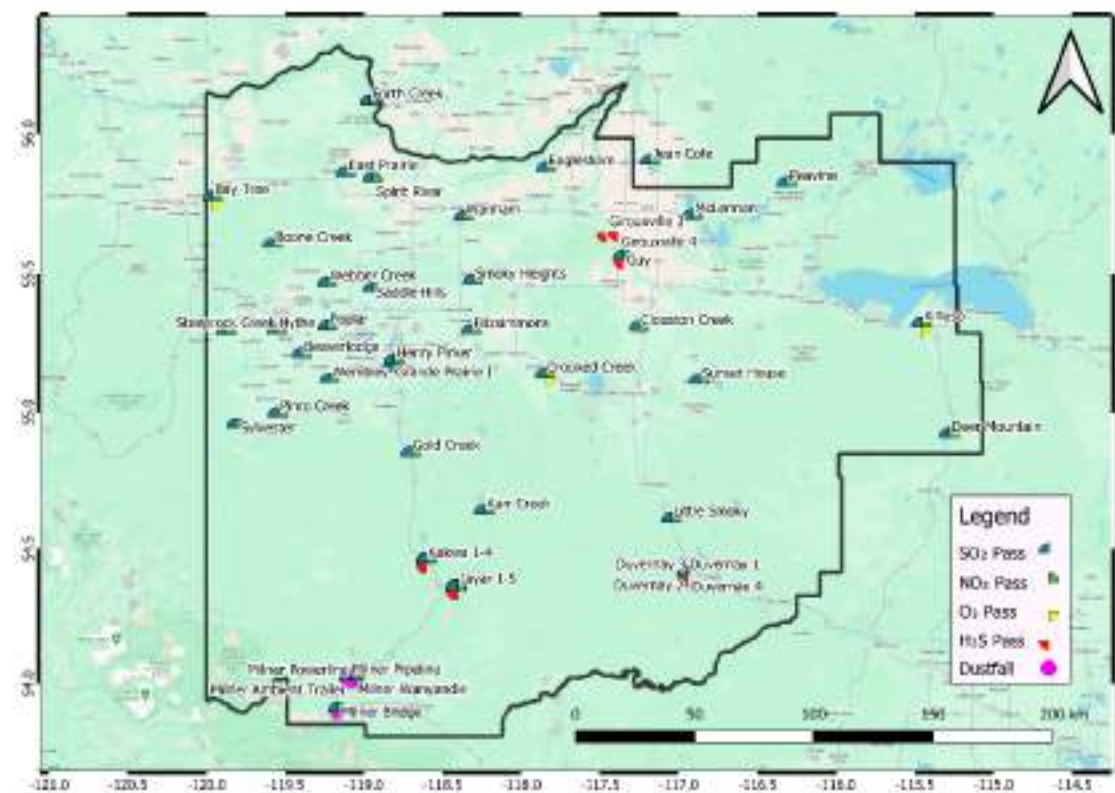
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PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 May 2024 Monthly Station Summaries

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

1.1 Beaverlodge Air Monitoring Station

PAZA - May 2024 Beaverlodge Station Report

Parameter	May				1-hour			24-hour			Exceedance				Calibration
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	0.2	0.0	95.2%	100.0%	11.3	-	May-04 08:00	0.7	-	May-04	-	-	-	-	May 18, 2024
NO ₂ (ppb)	2.6	0.3	95.2%	100.0%	25.8	150	May-11 09:00	18.3	-	May-11	0	-	-	-	May 16, 2024
NO _x (ppb)	2.9	0.3	95.2%	100.0%	28.3	-	May-11 09:00	18.4	-	May-11	-	-	-	-	May 16, 2024
O ₃ (ppb)	54.8	6.6	95.3%	100.0%	58.5	78	May-05 17:00	46.3	-	May-05	0	-	-	-	May 16, 2024
PM _{2.5} (µg/m³)	42.1	0.2	99.9%	100.0%	1323.2	80	May-11 12:00	949.9	25	May-11	28	-	2	-	May 07, 2024
SO ₂ (ppb)	0.4	0.0	95.3%	100.0%	8.1	172	May-02 21:00	2.5	48	May-11	0	-	0	0	May 07, 2024
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	10.8	0.1	95.8%	95.8%	23.8	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
RH (%)	52.3	15.5	100.0%	100.0%	98.9										
WS (mm/hr)	15.6	0.2	100.0%	100.0%	44.0	Average Wind Direction270W									
WD (deg)	270	1.1	100.0%	100.0%	358.7										

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42iQ	No Operational issues noted during the month
O ₃	Thermo	89iQ	No Operational issues noted during the month
PM _{2.5}	API	T640	May 11-12, 26x1hr readings above the AAQCG and 2x24hr readings above the AAQCG
SO ₂	Thermo	43i-TLE	No Operational issues noted during the month
Met Equip	MetOne	50.5	For ET, daily drop removed every day 04:21-04:45 (51hrs)

1.2 Dunes Air Monitoring Station

PAZA - May 2024 Dunes Station Report

Parameter	May		Valid	Operational	1-hour			24-hour			Exceedance				Calibration Date	
	Average	Minimum			Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	Std		
PM _{2.5} (µg/m³)	27.8	0.0	99.7%	100.0%	997.0	80	May-11 11:00	632.9	25	May-11	33	-	2	-	May-26-2024	
SO ₂ (ppb)	0.5	0.0	94.8%	100.0%	7.5	172	May-21 10:00	1.0	48	May-11	0	-	0	0	May-26-2024	
TRS (ppb)	0.5	0.0	95.0%	100.0%	2.0	30	May-11 11:00	1.3	3	May-11	0	-	0	-	May-26-2024	
	Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	10.7	-2.5	100.0%	100.0%	24.8	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%										
RH (%)	53.8	15.5	100.0%	100.0%	98.9											
WS (mm/hr)	4.6	0.0	100.0%	100.0%	11.8											
WD (deg)	278	0.9	100.0%	100.0%	359.1											
Average Wind Direction											278	W				

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Thermo	SHARP 5030	May 11-12, 31x1hr readings above the AAQCG and 2x24hr readings above the AAQCG; The maximum PM _{2.5} was greater than 1000µg/m³, as equipment top range was 997µg/m³
SO ₂	Thermo	43i	No Operational issues noted during the month
TRS	Thermo	43i	No Operational issues noted during the month
Met Equip	58i/RMYYoung	MetPsk/RMY96004	No Operational issues noted during the month

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - May 2024 Henry Pirker Station Report

Parameter	May				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)	0.6	0.0	93.0%	99.9%	13.9	-	May-08 07:00	3.0	-	May-20	-	-	-	-	May 03, 2024
NO ₂ (ppb)	4.7	0.7	93.0%	99.9%	31.3	139	May-11 22:00	20.3	-	May-11	0	-	-	-	May 03, 2024
NO _x (ppb)	5.5	1.0	93.0%	99.9%	36.2	-	May-12 02:00	21.7	-	May-11	-	-	-	-	May 03, 2024
O ₃ (ppb)	32.9	0.3	93.2%	99.9%	56.4	76	May-12 17:00	46.0	-	May-15	0	-	-	-	May 03, 2024
PM _{2.5} (µg/m ³)	35.6	0.5	99.9%	100.0%	1218.1	80	May-11 11:00	833.6	25	May-11	31	-	2	-	May 03, 2024
SO ₂ (ppb)	0.2	0.0	94.9%	99.6%	3.0	172	May-08 07:00	1.2	48	May-11	0	-	0	0	May 03, 2024
H ₂ S (ppb)	0.1	0.0	95.3%	100.0%	1.5	30	May-12 04:00	0.6	3	May-11	0	-	0	-	May 03, 2024
CH ₄ (ppm)	2.0	2.0	95.3%	100.0%	2.5	-	May-12 04:00	2.5	-	May-11	-	-	-	-	May 03, 2024
THC (ppm)	2.0	2.0	95.3%	100.0%	2.6	-	May-11 10:00	2.5	-	May-11	-	-	-	-	May 03, 2024
MMHC (ppm)	0.0	0.0	95.3%	100.0%	0.4	-	May-11 10:00	0.0	-	May-11	-	-	-	-	May 03, 2024
CO (ppm)	0.2	0.1	95.2%	100.0%	4.0	33	May-11 11:00	2.6	5	May-11	0	0	-	-	May 03, 2024
Average Minimum Valid Operational Maximum															
Temp (°C)	11.7	-0.6	99.7%	100.0%	25.7	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
RH (%)	50.2	12.8	99.7%	100.0%	88.2										
SR (µg/m ³)	184.2	0.0	99.7%	100.0%	851.5										
WS (km/hr)	8.5	0.1	99.7%	100.0%	26.3										
WD (deg)	259	0.0	99.7%	100.0%	358.1	Average Wind Direction 259 W									

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	May 3 drop in flow resulted in data shift, removed (1hr)
O ₃	TECO	49i	May 3 drop in flow resulted in data shift, removed (1hr)
PM _{2.5}	API	T640	May 11-12, 11x1hr readings above the AAQO and 2x24hr readings above the AAQO
SO ₂	Thermo	43i-TLE	May 3 drop in concentration removed (3hrs)
H ₂ S	TEI	450i	No Operational issues noted during the month
THC/CH ₄ /MMHC	TEI	55i	No Operational issues noted during the month
CO	Thermo	48i-TLE	No Operational issues noted during the month
Met Equip	MetOne	50.5	Calibration on May 21, 2024

1.4 Smoky Heights Air Monitoring Station

PAZA - May 2024 Smoky Heights Station Report

May 2024 Summary Performance Report															
Parameter	May			Operational	1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid		Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
PM _{2.5} (µg/m³)	22.9	0.0	98.9%	99.2%	990.0	80	May-11 03:00	109.1	25	May-12	26	-	1	-	May 11, 2024
SO ₂ (ppb)	0.3	0.0	93.3%	100.0%	4.4	172	May-10 00:00	1.5	48	May-11	0	-	0	0	May 27, 2024
THC (ppb)	0.2	0.0	93.2%	100.0%	2.0	30	May-11 09:00	1.1	3	May-11	0	-	0	-	May 27, 2024
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	10.7	-0.8	100.0%	100.0%	24.8	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WS (km/hr)	13.5	0.5	100.0%	100.0%	44.7										
WD (deg)	266	0.0	100.0%	100.0%	359.8										
Average Wind Direction									266 WNW						

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	May 11-12, 26x1hr readings above the AAQO and 1x24hr readings above the AAQO; May 11 analyzer failed, shut down (ver2771) and swapped with APCA Isomer (AMU 1969 ver0206). The maximum PM _{2.5} was greater than 1000µg/m ³ , as equipment top range was 990µg/m ³
SO ₂	TECO	43i	No Operational issues noted during the month
THC	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 - May 2024 Valleyview Station Report

May 2024 Daily Data Summary Report																
Parameter	May		Valid	Operational	Max	1-hour		Max	24-hour		Max Day	Exceedance				Calibration Date
	Average	Minimum				Objective	Max Day and Time		Objective	Max Day		1hr	8hr	24hr	30d	
SO ₂ (ppb)	0.1	0.0	94.6%	99.7%	2.3	172	May-30 13:00	0.5	48	May-11	0	-	0	0	May 24, 2024	
H ₂ S (ppb)	0.1	0.0	93.3%	100.0%	1.0	10	May-31 09:00	0.4	3	May-11	0	-	0	-	May 23, 2024	
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 50% Average Wind Direction 281 MW										
Temp (°C)	10.9	-3.1	100.0%	100.0%	24.8											
RH (%)	50.4	15.4	100.0%	100.0%	100.1											
WS (km/hr)	3.0	0.1	100.0%	100.0%	18.0											
WD (deg)	283	0.5	100.0%	100.0%	359.3											
Update Summary:																
Parameter	Make		Model		Equipment summary											
SO ₂	TEI		431-A75CB		May 23, started as found, noted issues with calibration gas, postponed until new cylinder of gas picked up (12hr)											
H ₂ S	TEI		450-A7HAA / 43C		No Operational issues noted during the month											
Mnt Equip	RMYoung		RMFB900S		No Operational issues noted during the month											

1.6 Fox Creek Air Monitoring Station

PAZA - May 2024 Fox Creek Station Report

AAQDS - May 2024 Fox Creek station report																
Parameter	May			Operational	Max	1-hour		8-hour / 24-hour			Exceedance				Calibration	
	Average	Minimum	Valid			Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date	
NO (ppb)	1.9	0.0	93.2%	100.0%	31.2	-	May-12 07:00	4.6	-	May-09	-	-	-	-	May 27, 2024	
NO ₂ (ppb)	3.9	0.2	93.2%	100.0%	26.4	150	May-09 05:00	11.3	-	May-11	0	-	-	-	May 27, 2024	
NO _x (ppb)	6.0	0.2	93.2%	100.0%	46.7	-	May-12 07:00	13.2	-	May-11	-	-	-	-	May 27, 2024	
O ₃ (ppb)	52.2	0.6	93.4%	100.0%	60.0	78	May-12 17:00	44.8	-	May-14	0	-	-	-	May 27, 2024	
PM _{2.5} (µg/m ³)	11.9	0.2	99.9%	100.0%	917.4	80	May-11 11:00	422.3	25	May-11	34	-	2	-	May 28, 2024	
SO ₂ (ppb)	0.2	0.0	93.2%	99.0%	18.8	172	May-12 10:00	1.1	48	May-12	0	-	0	0	May 28, 2024	
H ₂ S (ppb)	0.1	0.0	93.3%	100.0%	0.7	10	May-31 12:00	0.4	3	May-11	0	-	0	-	May 28, 2024	
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 50% Average Wind Direction 292 WNW										
Temp (°C)	9.8	-3.1	100.0%	100.0%	24.3											
WS (km/hr)	7.0	0.2	100.0%	100.0%	22.9											
WD (deg)	292	1.1	100.0%	100.0%	358.4											
Update Summary:																
Parameter	Make		Model		Equipment summary											
NO/NO ₂ /NO _y	Thermo		42IQ		No Operational issues noted during the month											
O ₃	TECO		49I		No Operational issues noted during the month											
PM _{2.5}	API		T640		May 11-12, 34x1hr readings above the AAQDS and 2x24hr readings above the AAQDS											
SO ₂	TEI		431-TLE		May 27, started as found, noted issues with calibration gas, postponed until new cylinder of gas picked up (1hr)											
H ₂ S	TEI		450I		No Operational issues noted during the month											
Mnt Equip	MntDra		50.5		No Operational issues noted during the month											

1.7 Happy Valley Air Monitoring Station

PAZA - May 2024 Happy Valley Station Report

Parameter	May				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)	0.4	0.0	95.0%	100.0%	20.1	-	May-31 22:00	1.4	-	May-31	-	-	-	-	May 10, 2024
NO ₂ (ppb)	2.8	0.4	95.0%	100.0%	20.4	159	May-31 07:00	15.7	-	May-11	0	-	-	-	May 10, 2024
NO _x (ppb)	3.2	0.5	95.0%	100.0%	36.2	-	May-31 22:00	14.4	-	May-11	-	-	-	-	May 10, 2024
O ₃ (ppb)	33.5	1.6	95.3%	100.0%	57.4	78	May-31 02:00	47.3	-	May-15	0	-	-	-	May 10, 2024
PM _{2.5} (µg/m ³)	51.4	0.2	98.6%	95.0%	1378.5	80	May-31 06:00	888.0	25	May-11	30	-	2	-	May 10, 2024
SO ₂ (ppb)	0.5	0.0	95.2%	100.0%	3.0	172	May-31 02:00	1.7	48	May-11	0	-	0	0	May 10, 2024
TRS (ppb)	0.5	0.3	95.3%	100.0%	2.3	38	May-31 07:00	1.6	3	May-11	0	-	0	-	May 10, 2024
THC (ppm)	2.1	1.8	95.1%	100.0%	5.1	-	May-31 15:00	2.9	-	May-11	-	-	-	-	May 10, 2024
Average Minimum Valid Operational Maximum															
Temp (°C)	10.4	-1.5	100.0%	100.0%	24.0	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction 257 WSW									
WS (km/hr)	11.7	0.3	100.0%	100.0%	31.9										
WD (deg)	257	3.0	100.0%	100.0%	359.0										

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	TEI	42i	May 9, power on and stabilization; Startup calibration May 10, 2024
O ₃	TEI	43i	May 9, power on and stabilization; Startup calibration May 10, 2024
PM _{2.5}	API	T640	May 9, power on and stabilization; Startup calibration May 10, 2024; May 11-12, 30x3hr readings above the AAQGL and 2x3hr readings above the AAQGL; May 14 shutdown to replace sample pump and clean unit / replace inline filter, startup up no issues (2hr)
SO ₂	TEI	43i	May 9, power on and stabilization; Startup calibration May 10, 2024
TRS	TEI	43i	May 9, power on and stabilization; Startup calibration May 10, 2024
THC	TEI	55i / 51i-LT	May 9, power on and stabilization; Startup calibration May 10, 2024
Met Equip	MetOne	50.5	May 9 power on and startup

1.8 Milner Air Monitoring Station

PAZA - May 2024 Milner Station Report

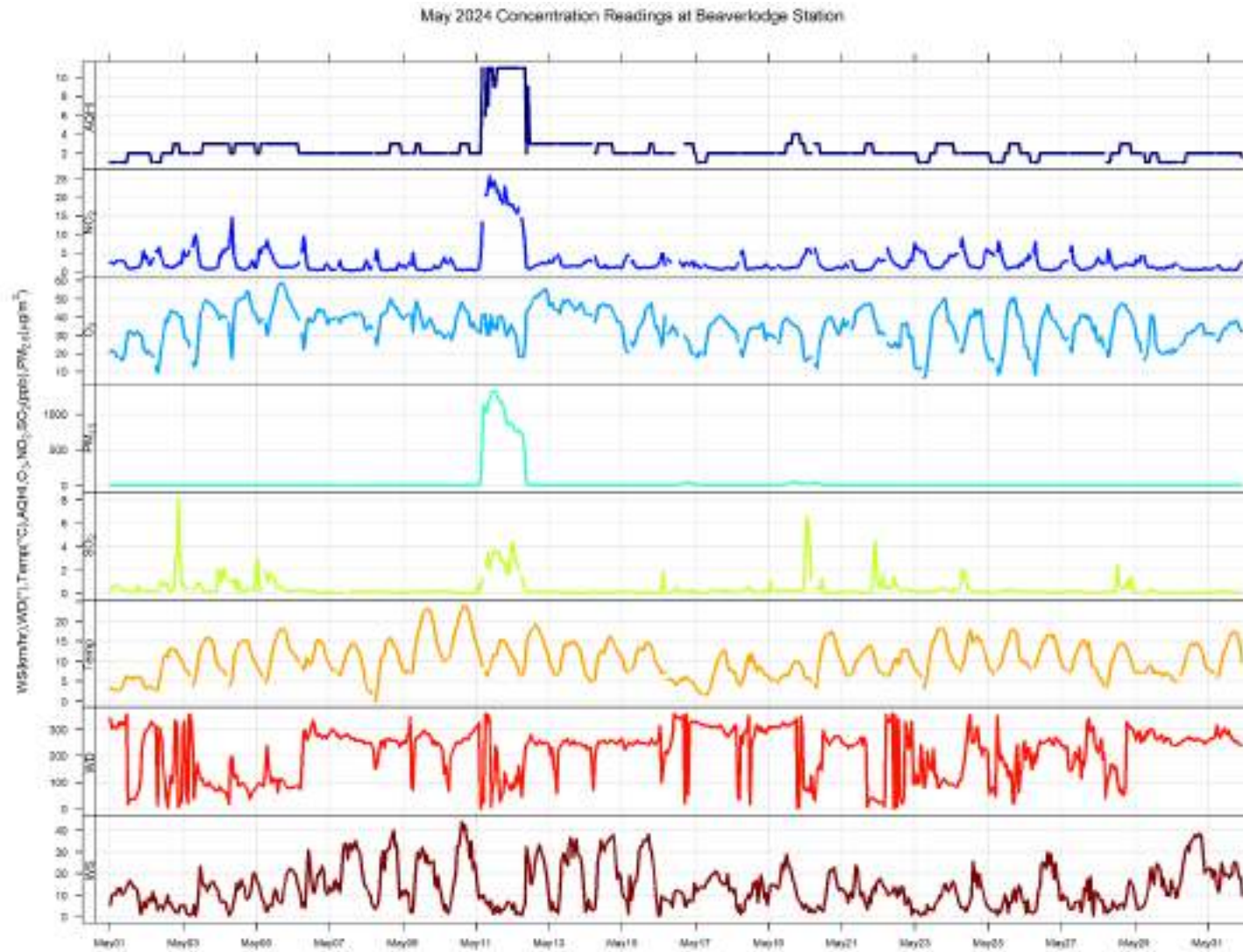
Parameter	May				1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	0.5	0.0	95.2%	100.0%	16.1	-	May-26 08:00	1.7	-	May-02	-	-	-	-	May 02, 2024
NO ₂ (ppb)	2.1	0.0	95.2%	100.0%	15.9	159	May-32 03:00	5.2	-	May-11	0	-	-	-	May 02, 2024
NO _x (ppb)	2.6	0.0	95.2%	100.0%	25.1	-	May-26 08:00	6.1	-	May-11	-	-	-	-	May 02, 2024
PM _{2.5} (µg/m ³)	13.1	0.3	99.6%	100.0%	630.1	80	May-31 21:00	344.9	29	May-12	15	-	2	-	May 02, 2024
Average Minimum Valid Operational Maximum															
WS (km/hr)	7.7	0.0	100.0%	100.0%	24.3	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction 243 WSW									
WD (deg)	243	0.2	100.0%	100.0%	359.8										

Update Summary:

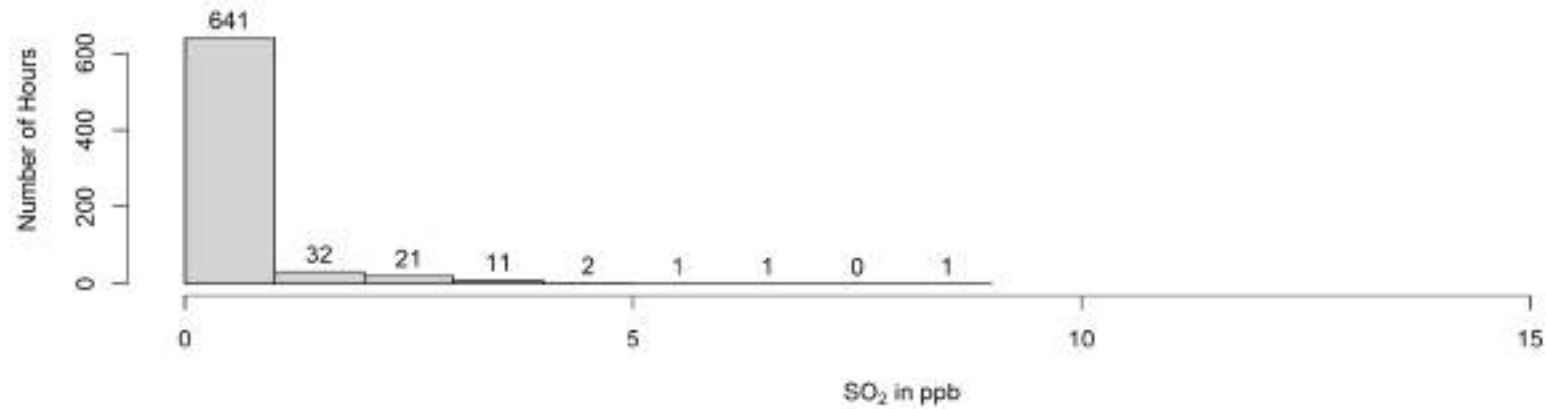
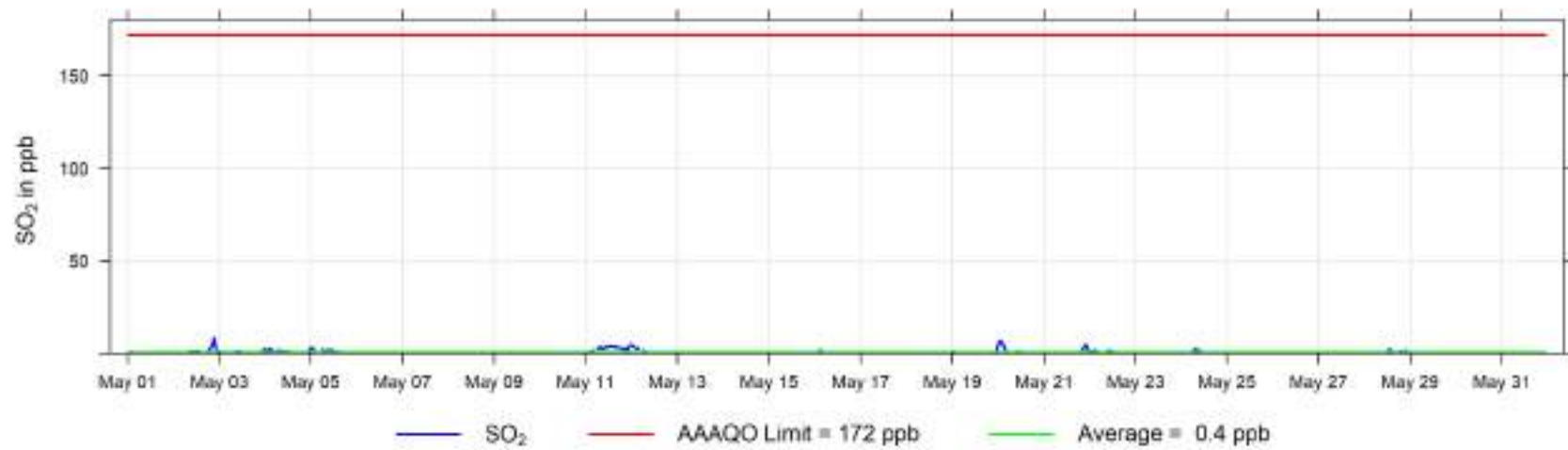
Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	No Operational issues noted during the month
PM _{2.5}	API	T640	May 11-12, 15x3hr readings above the AAQGL and 2x24hr readings above the AAQGL
Met Equip	MetOne	50.5	No Operational issues noted during the month

2 Beaverlodge Charts

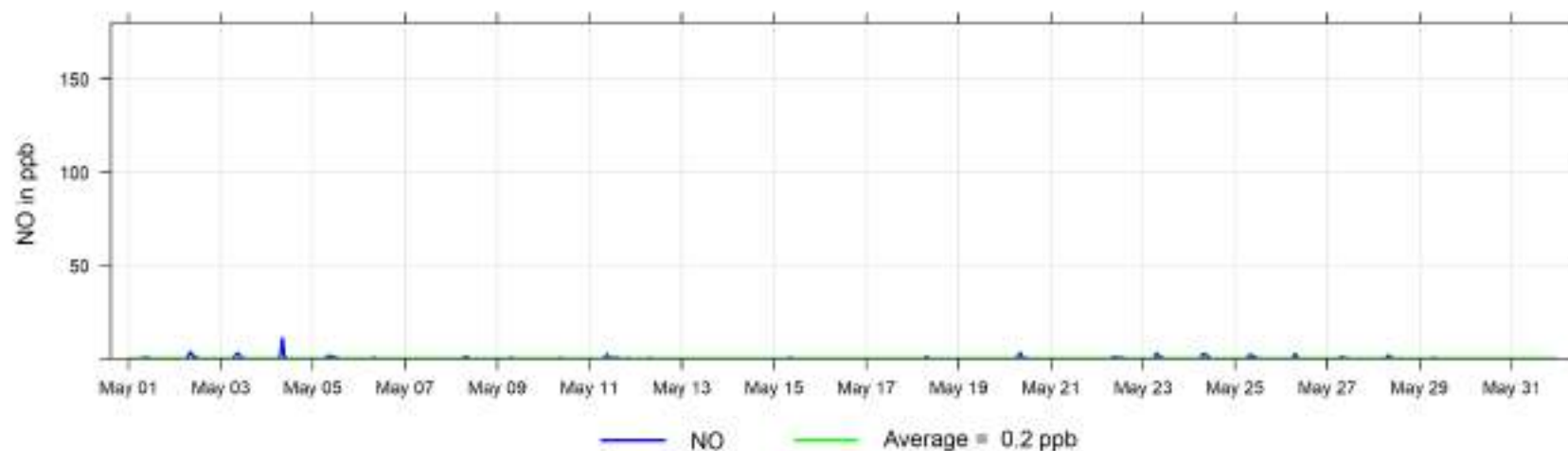
The following pages include the charts and histograms for Beaverlodge Station



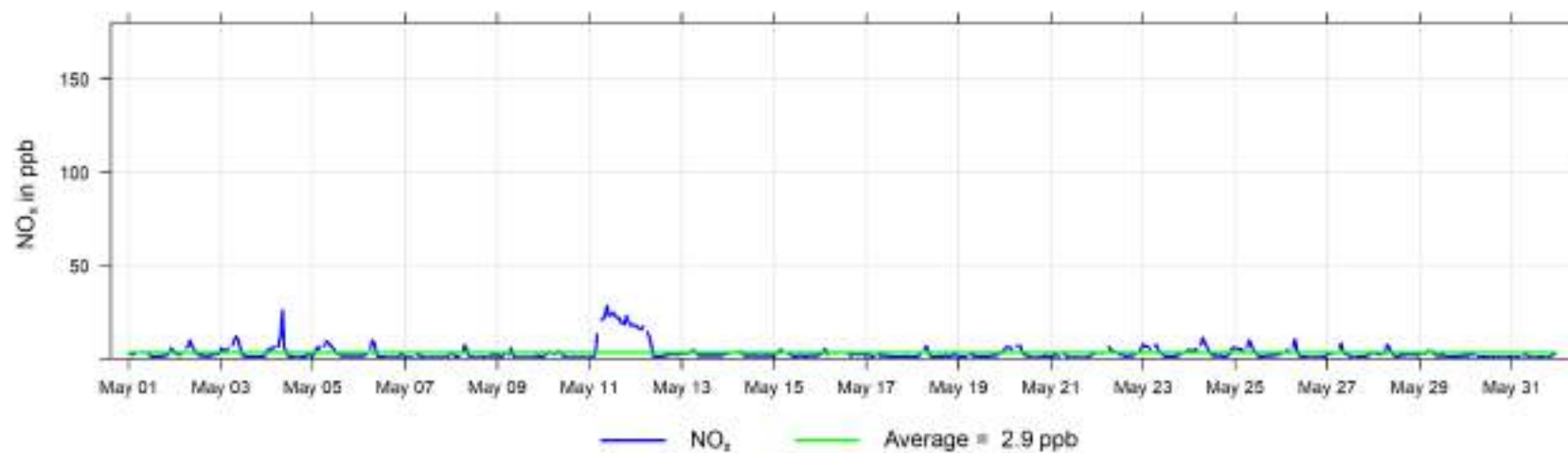
May 2024 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



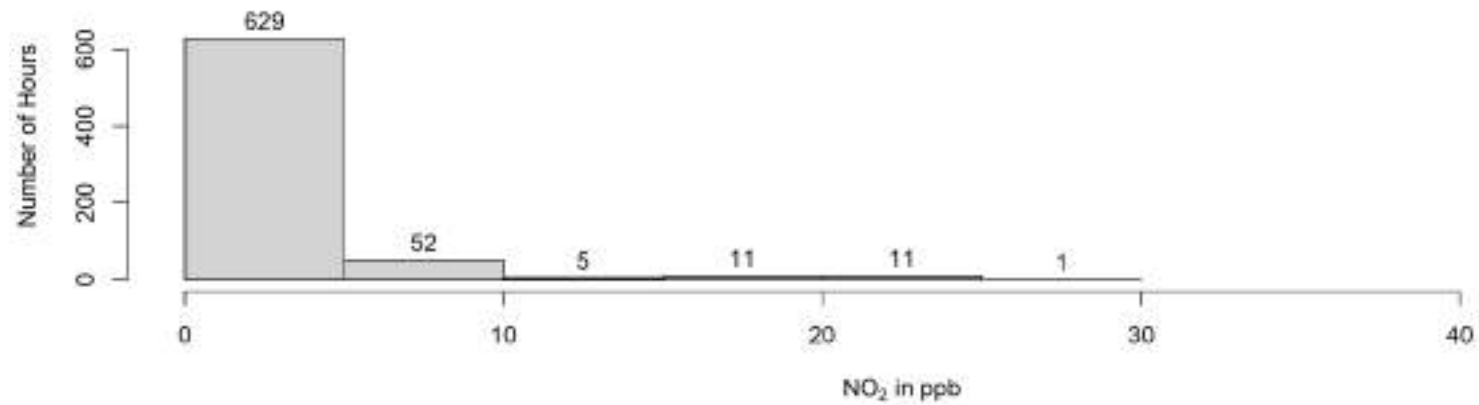
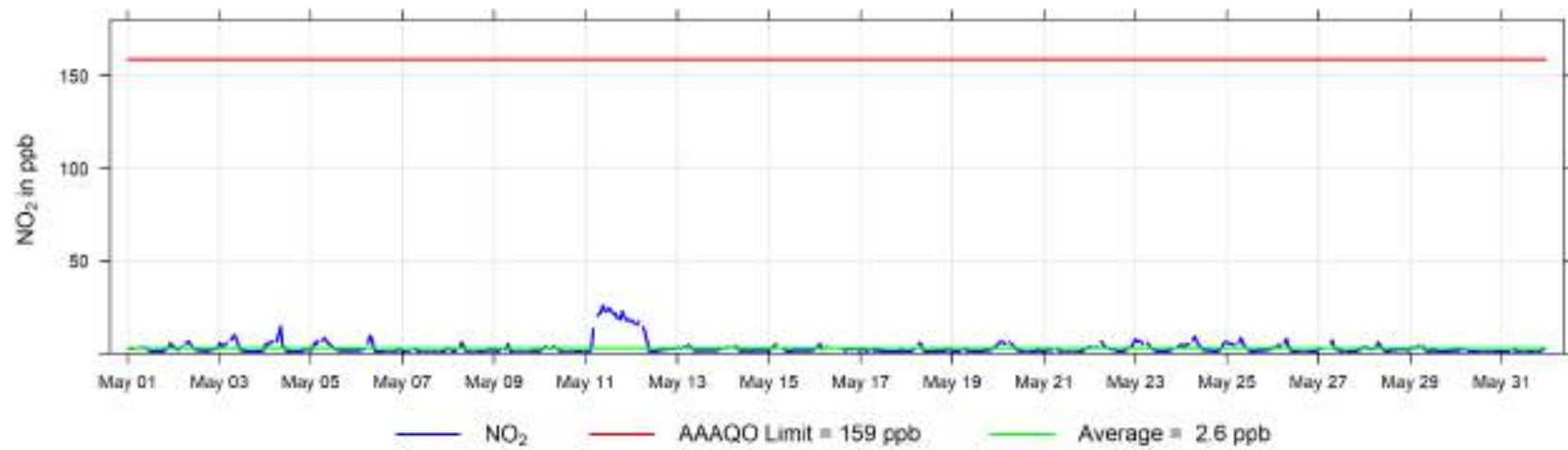
May 2024 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



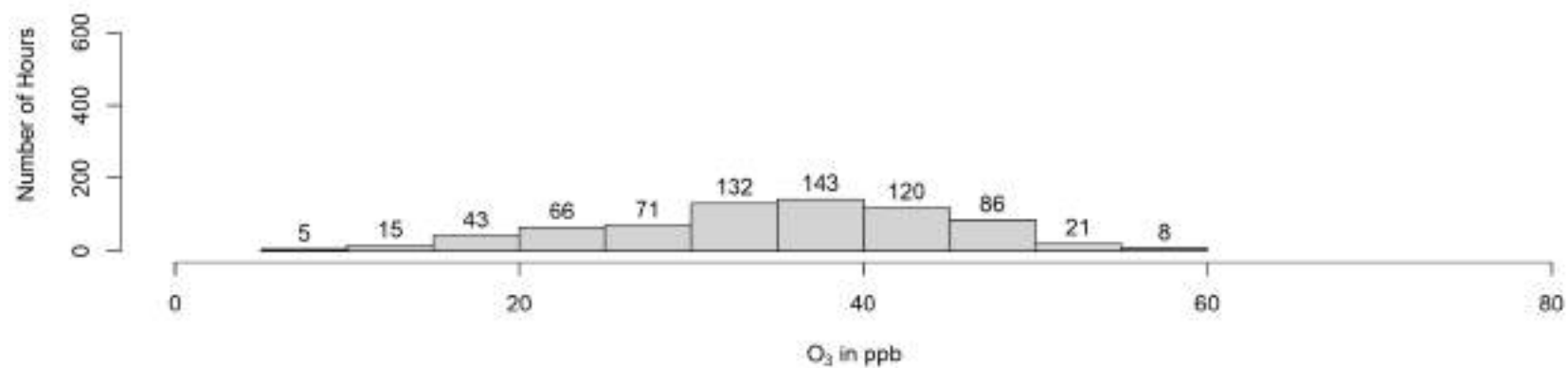
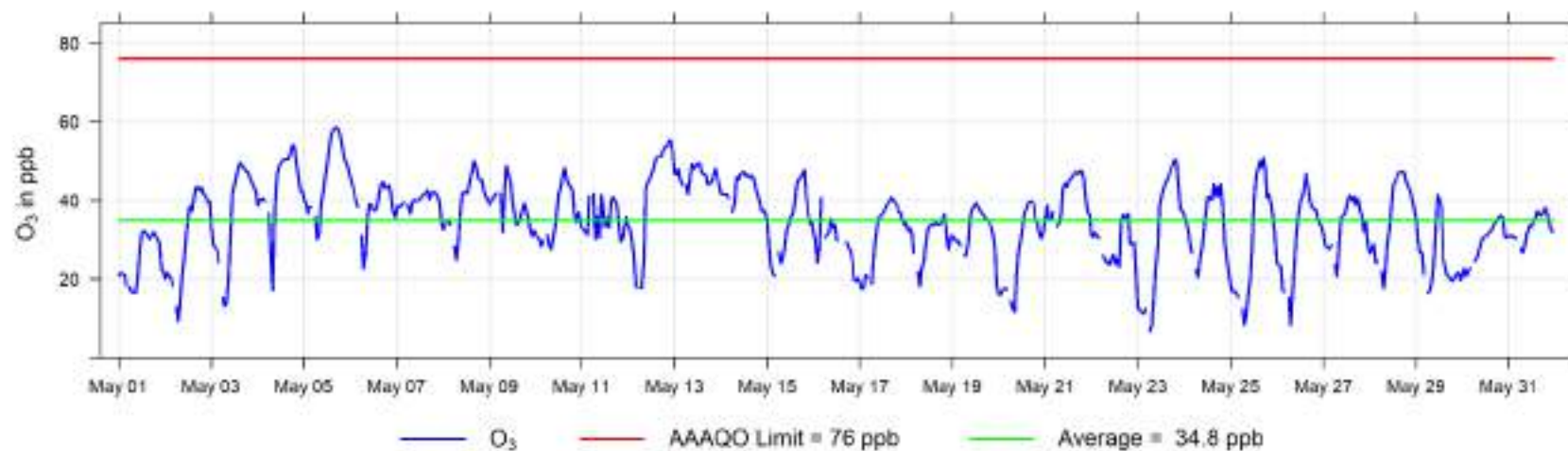
May 2024 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



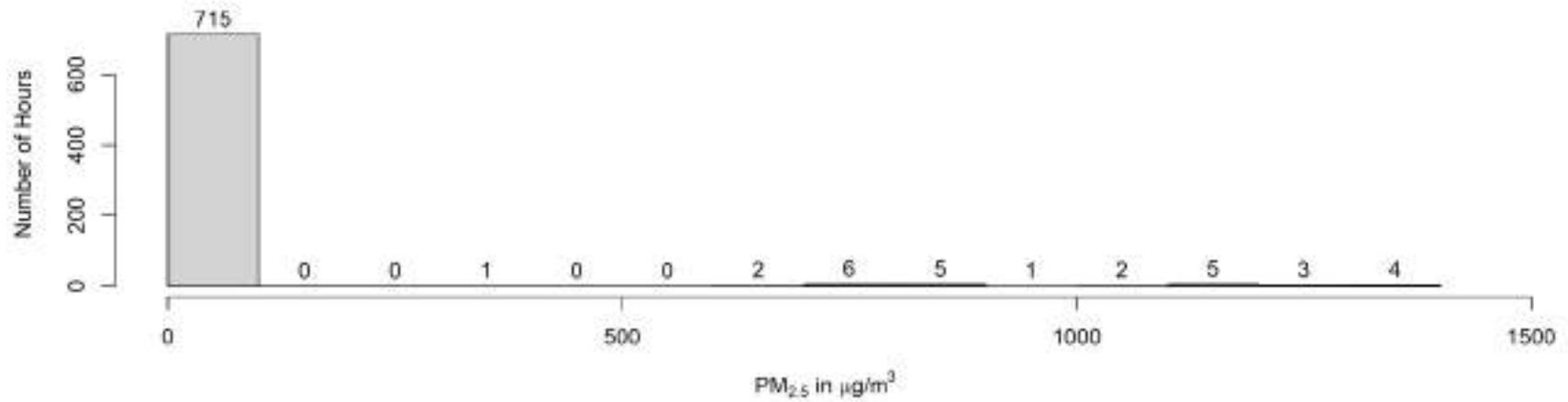
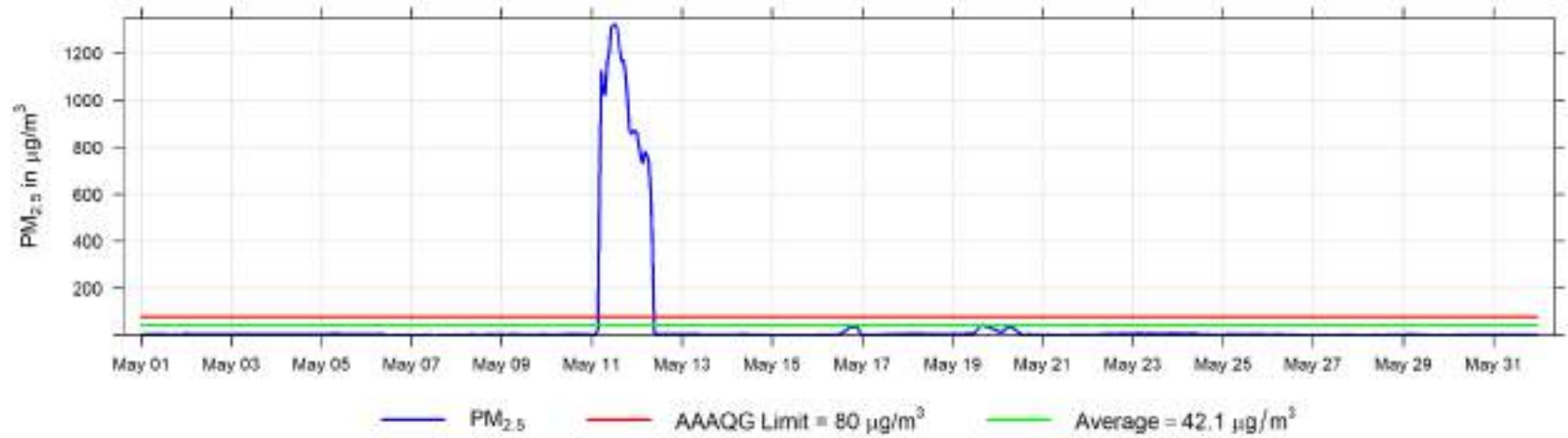
May 2024 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



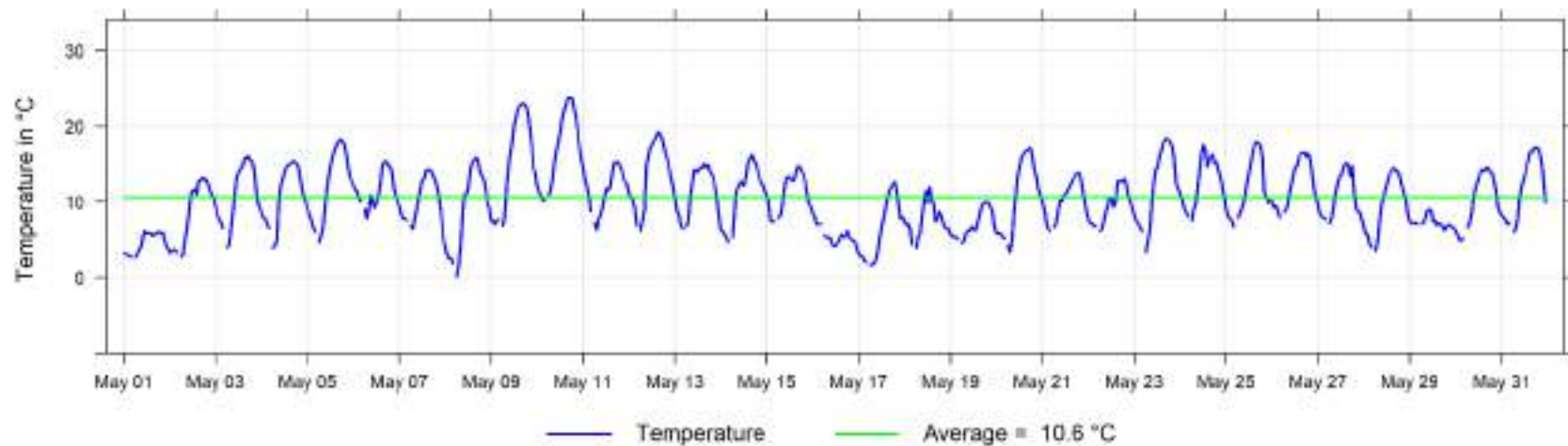
May 2024 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



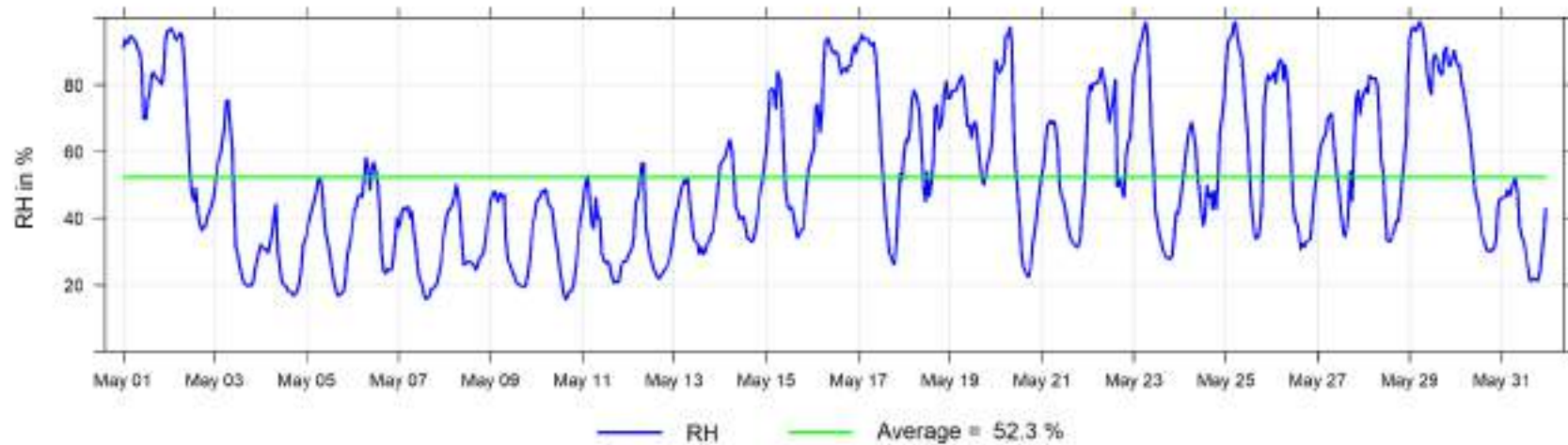
May 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Beaverlodge



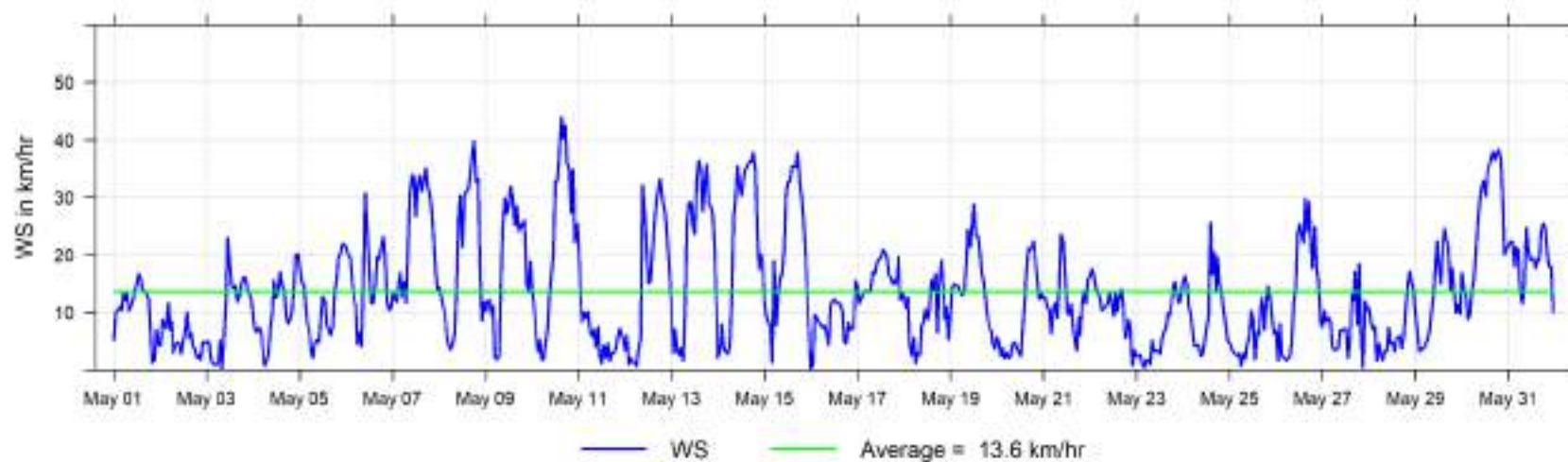
May 2024 Hourly Temperature Readings (in °C) at Beaverlodge



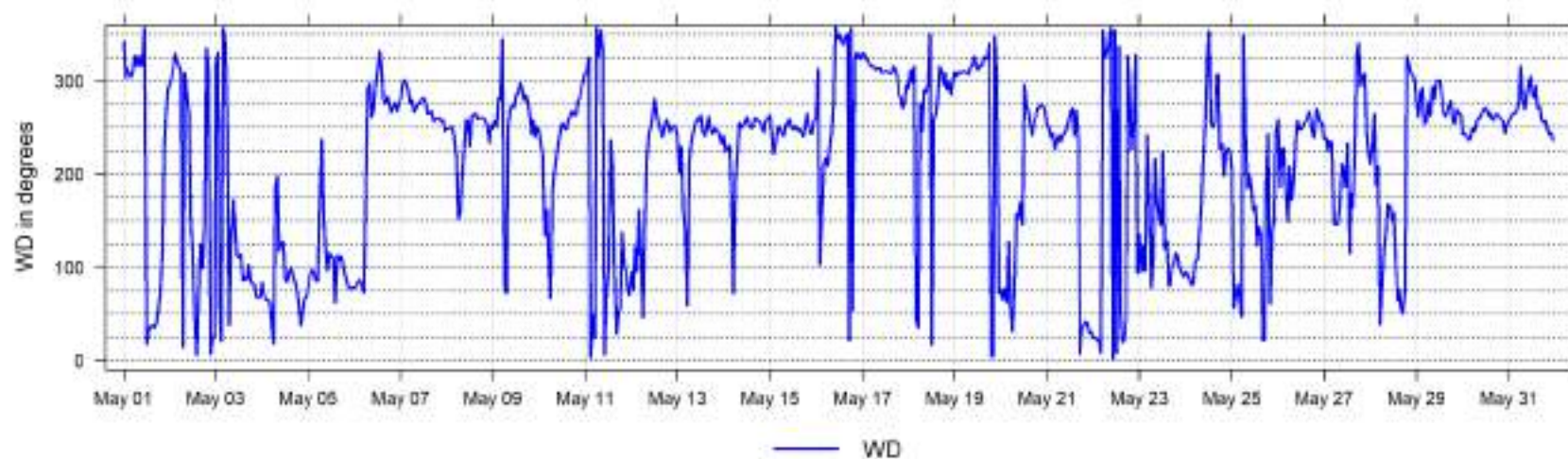
May 2024 Hourly Readings of Relative Humidity (in %) at Beaverlodge



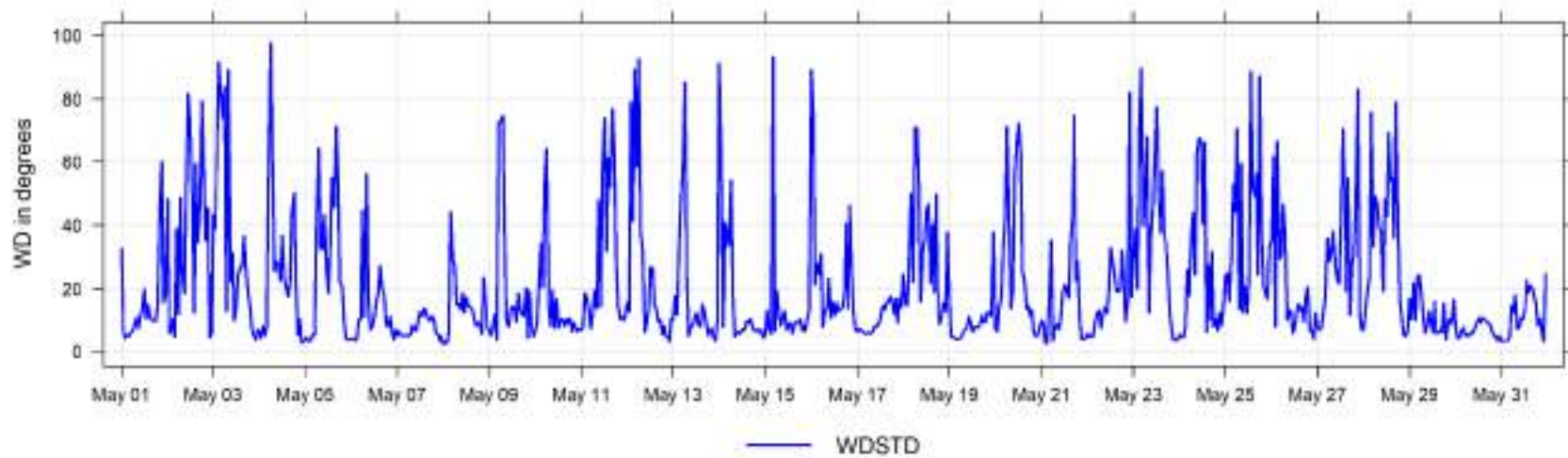
May 2024 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge



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

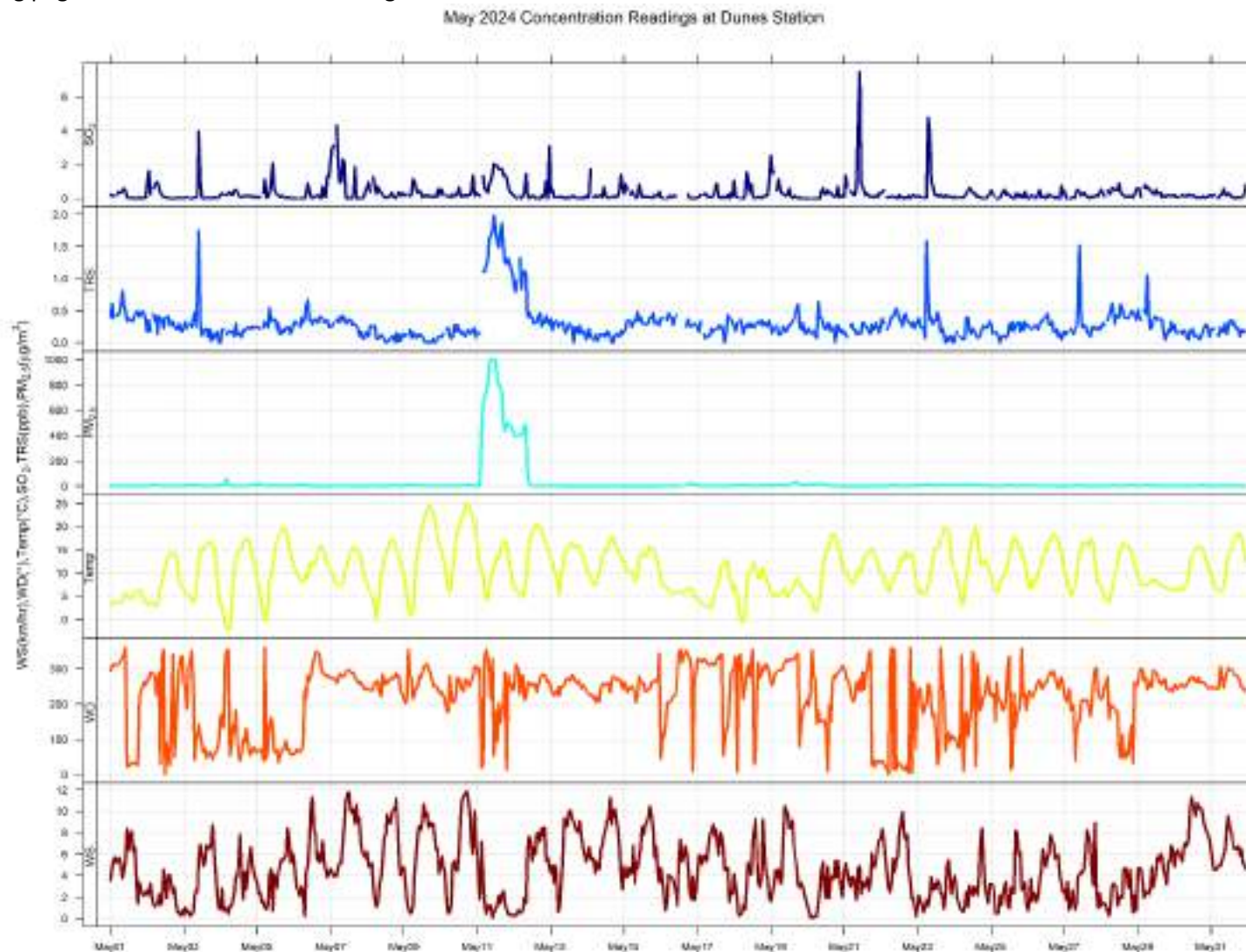


May 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Beaverlodge

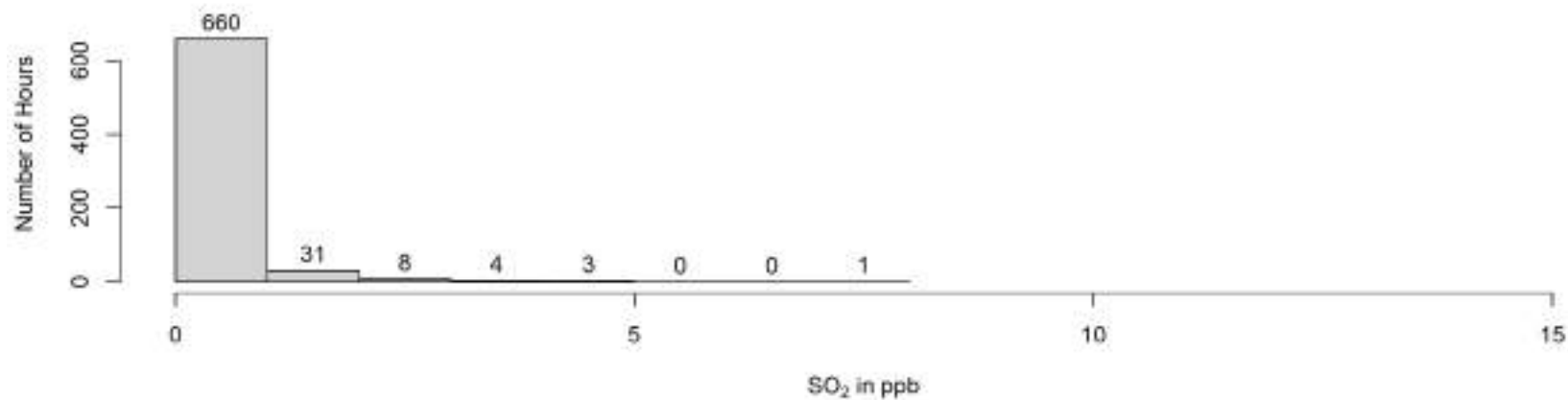
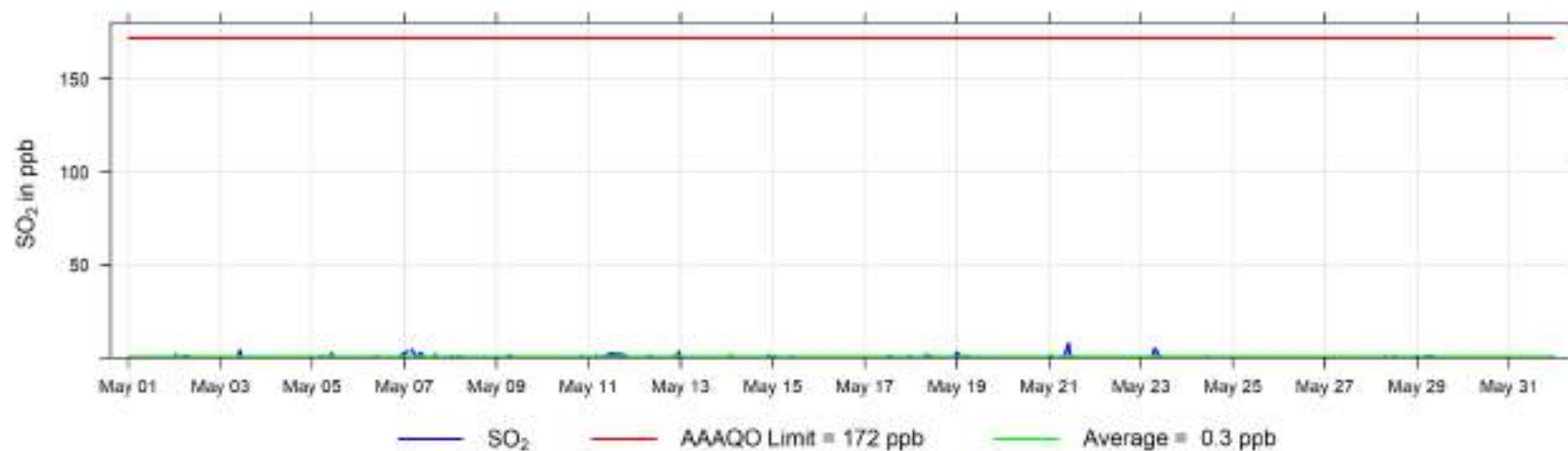


3 Dunes Charts

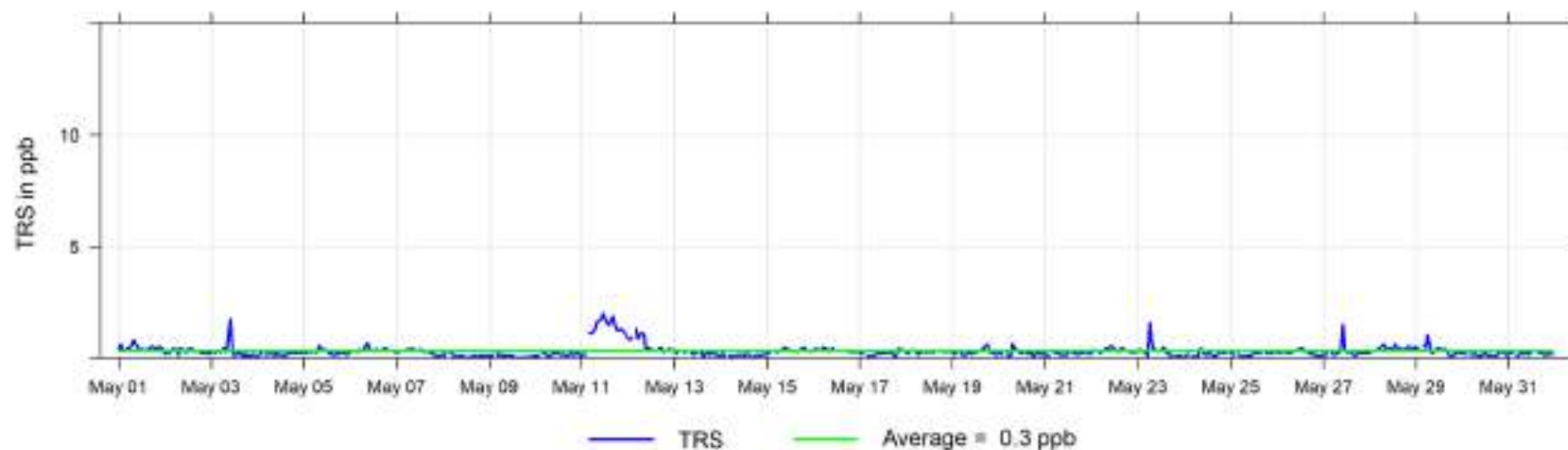
The following pages include the charts and histograms for Dunes Station



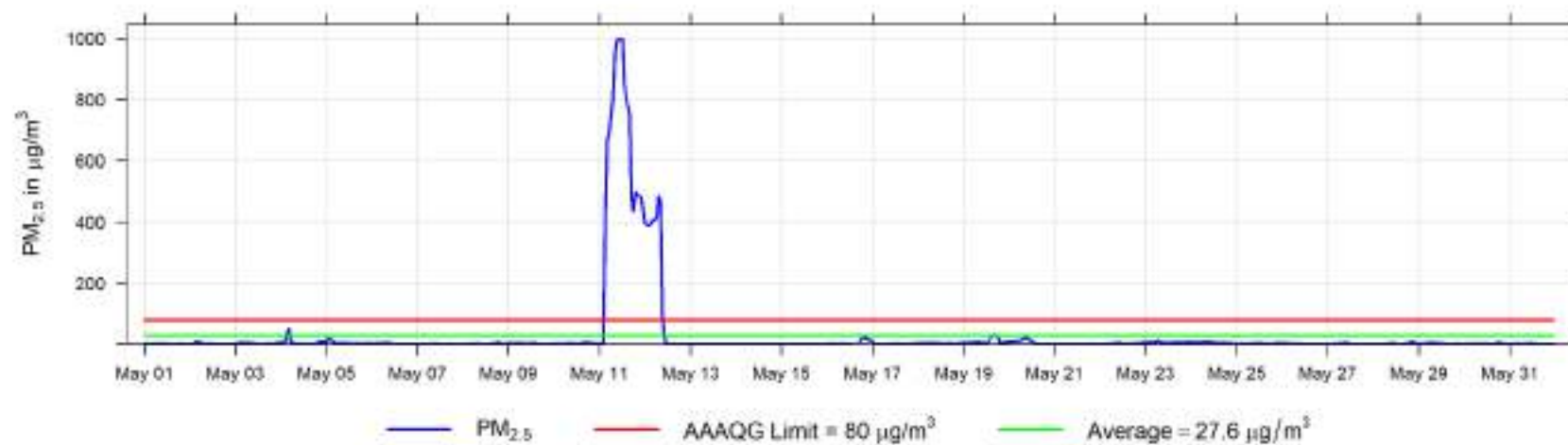
May 2024 Hourly Concentration Readings of SO₂ (in ppb) at Dunes

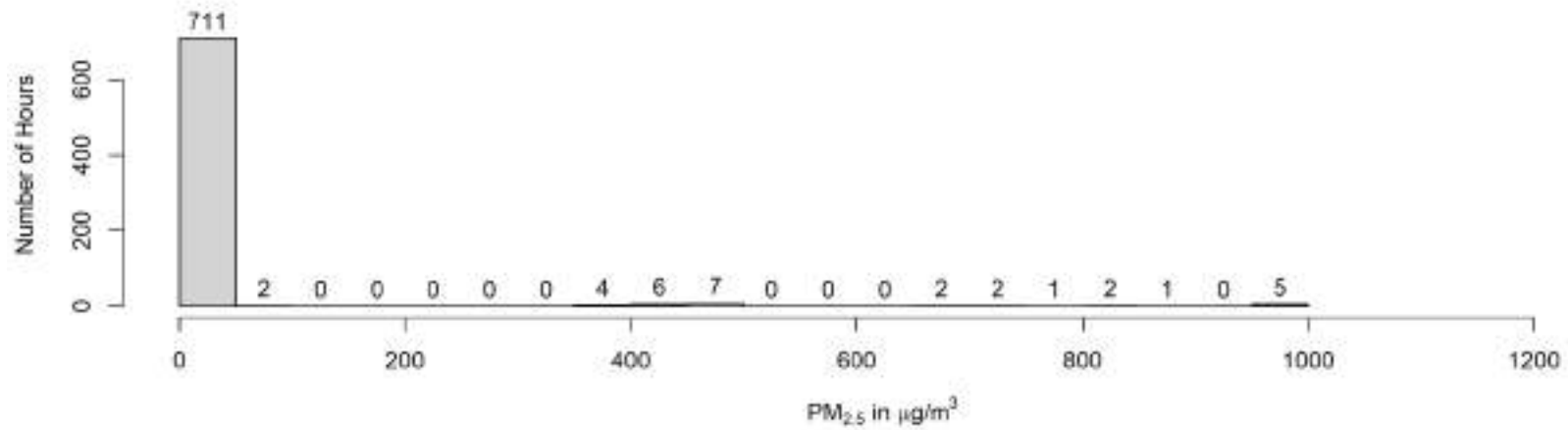


May 2024 Hourly Concentration Readings of TRS (in ppb) at Dunes

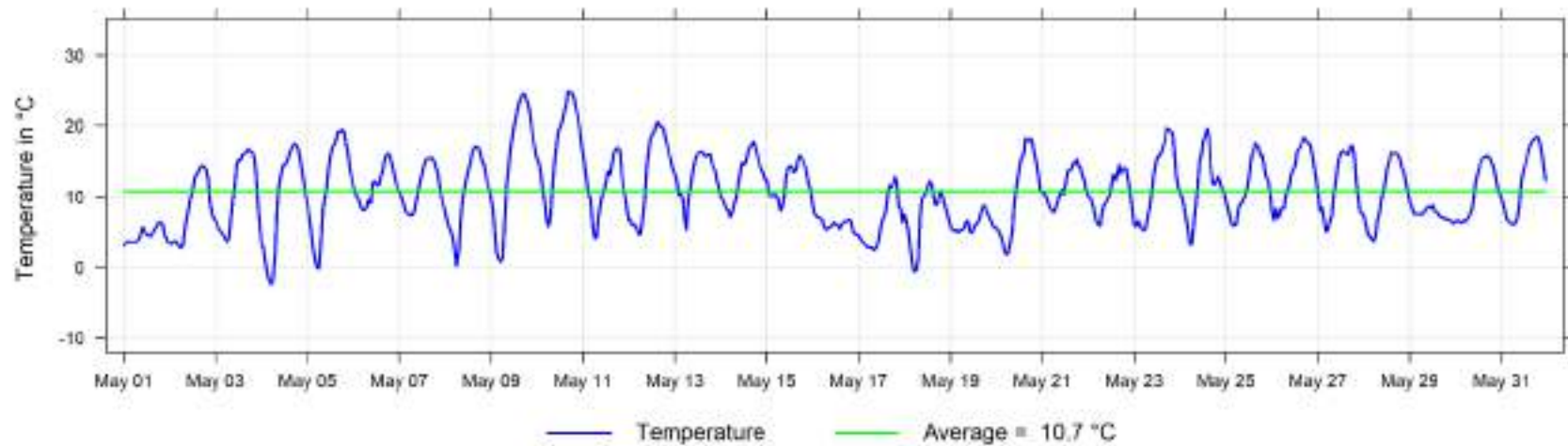


May 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Dunes

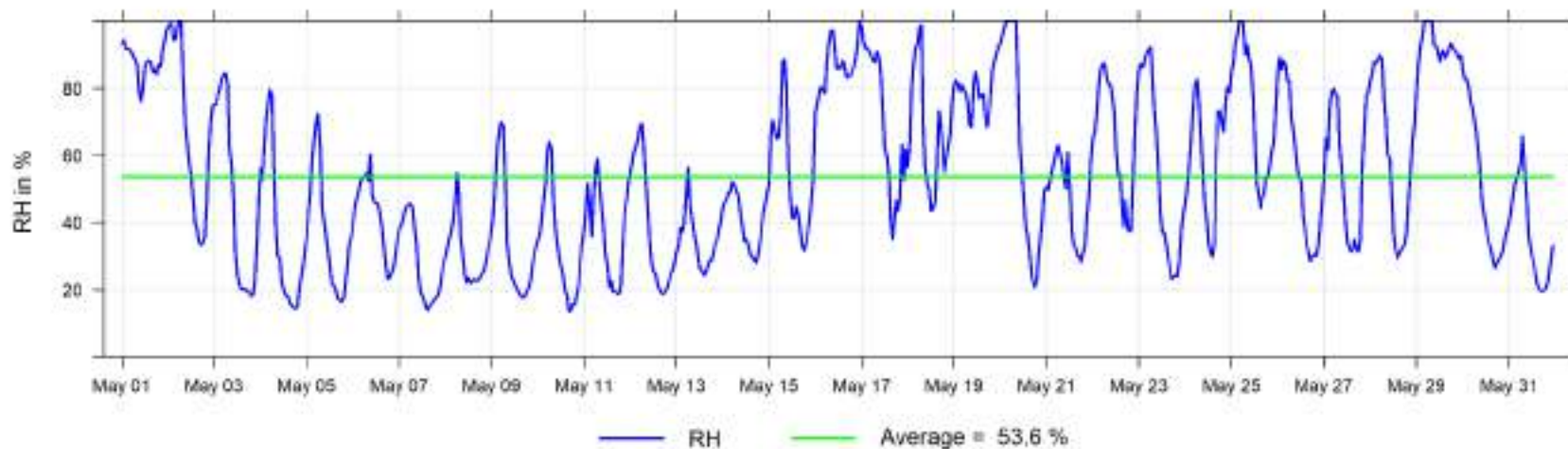




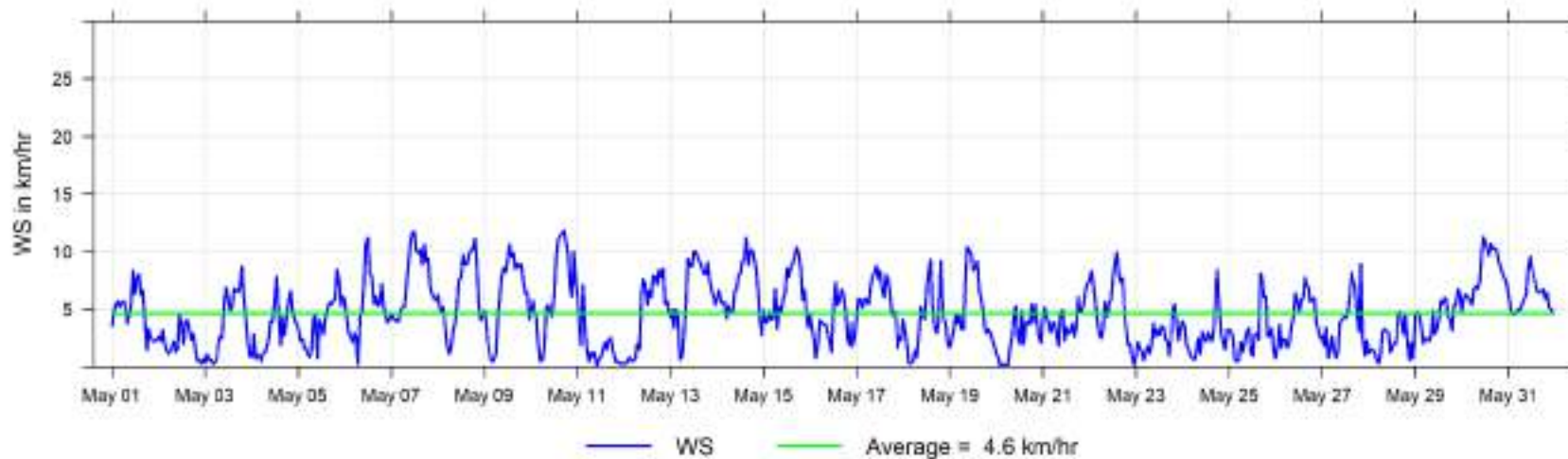
May 2024 Hourly Temperature Readings (in °C) at Dunes



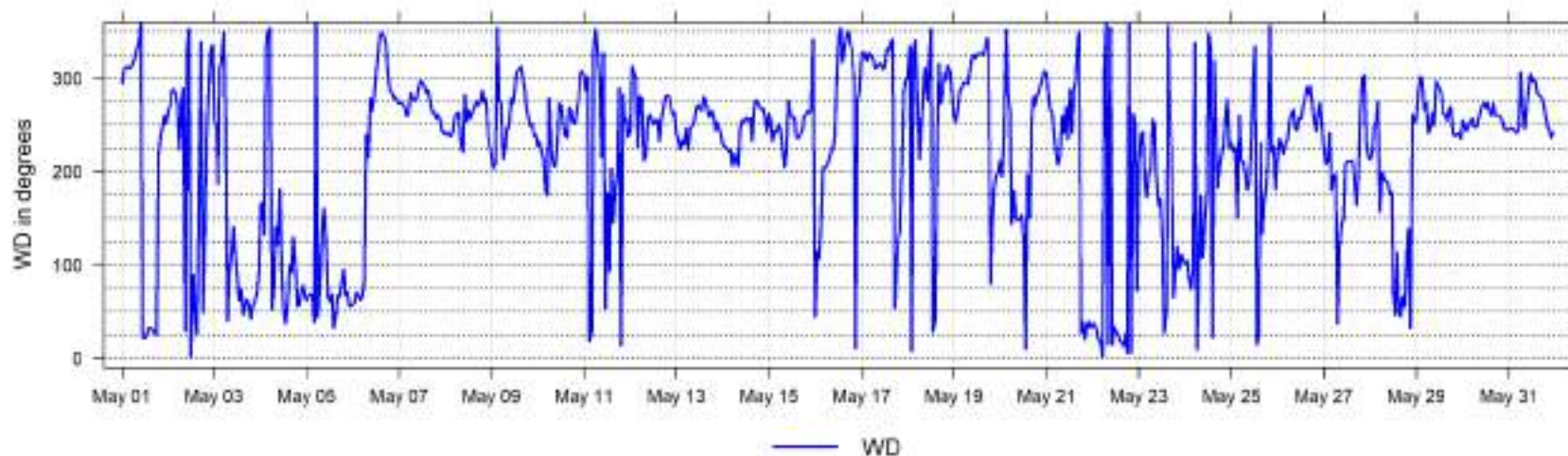
May 2024 Hourly Readings of Relative Humidity (in %) at Dunes



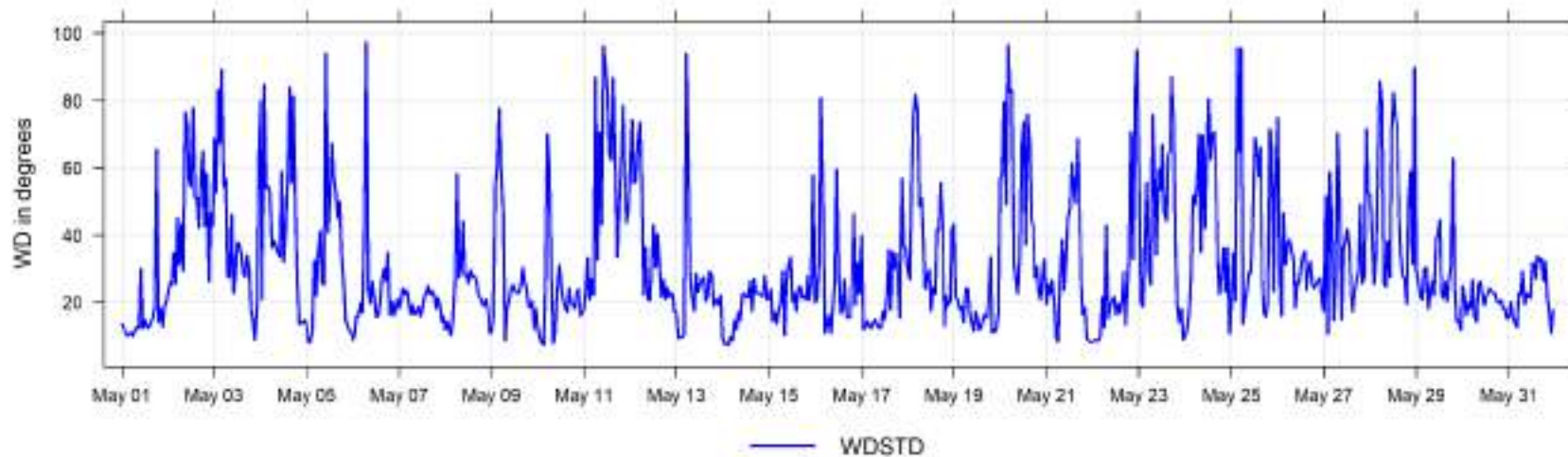
May 2024 Hourly Readings of Wind Speed (in km/hr) at Dunes



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

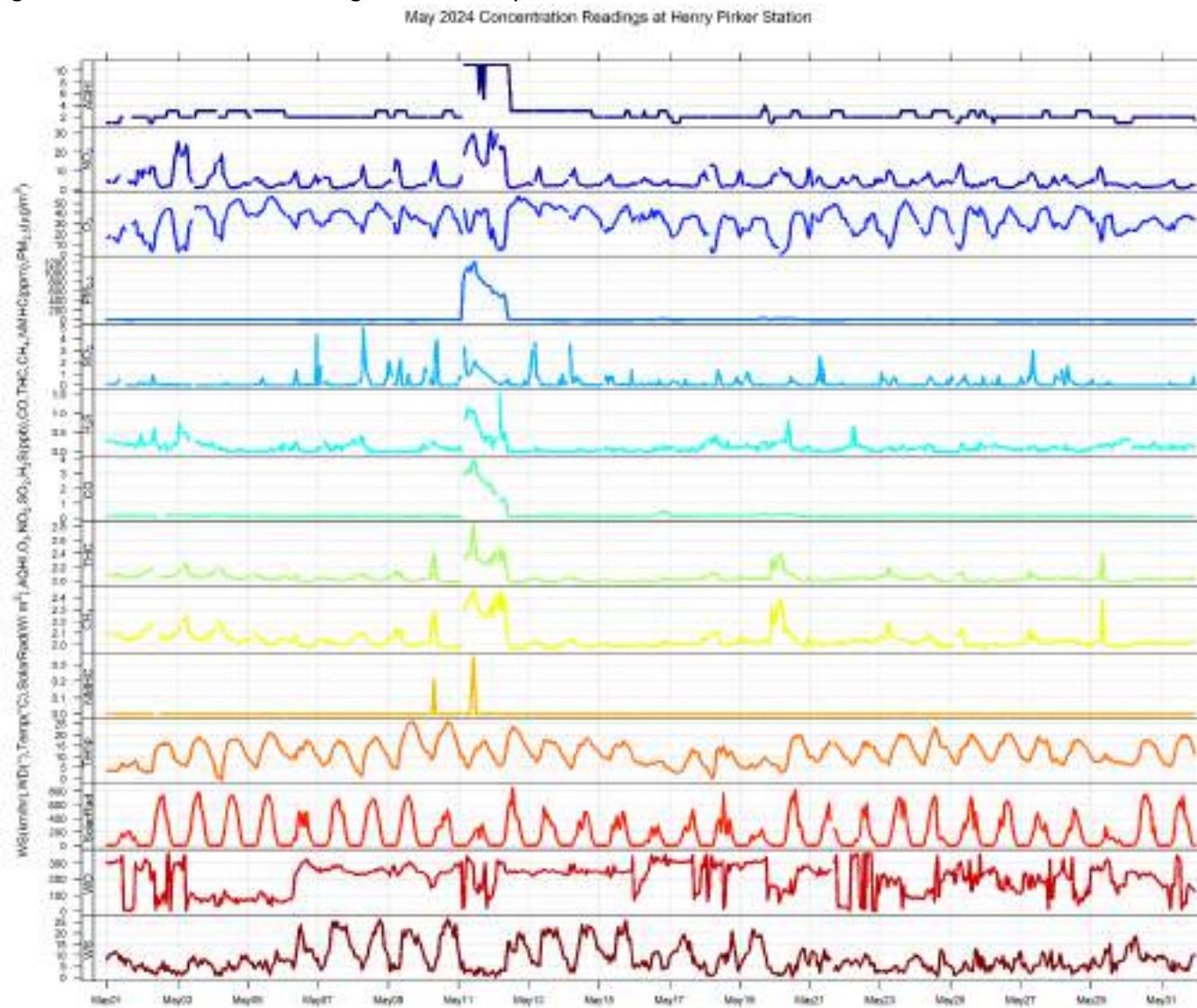


May 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Dunes

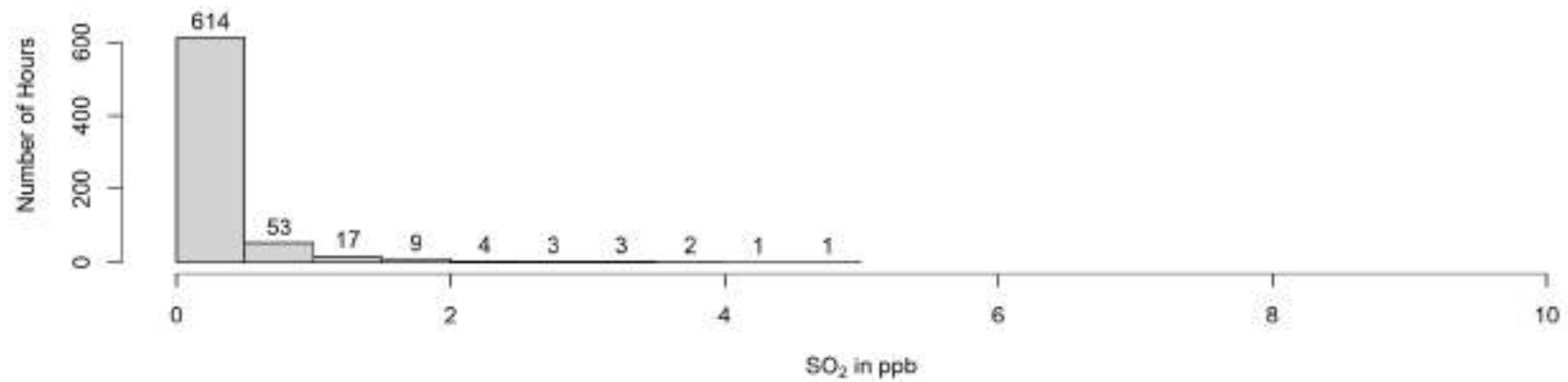
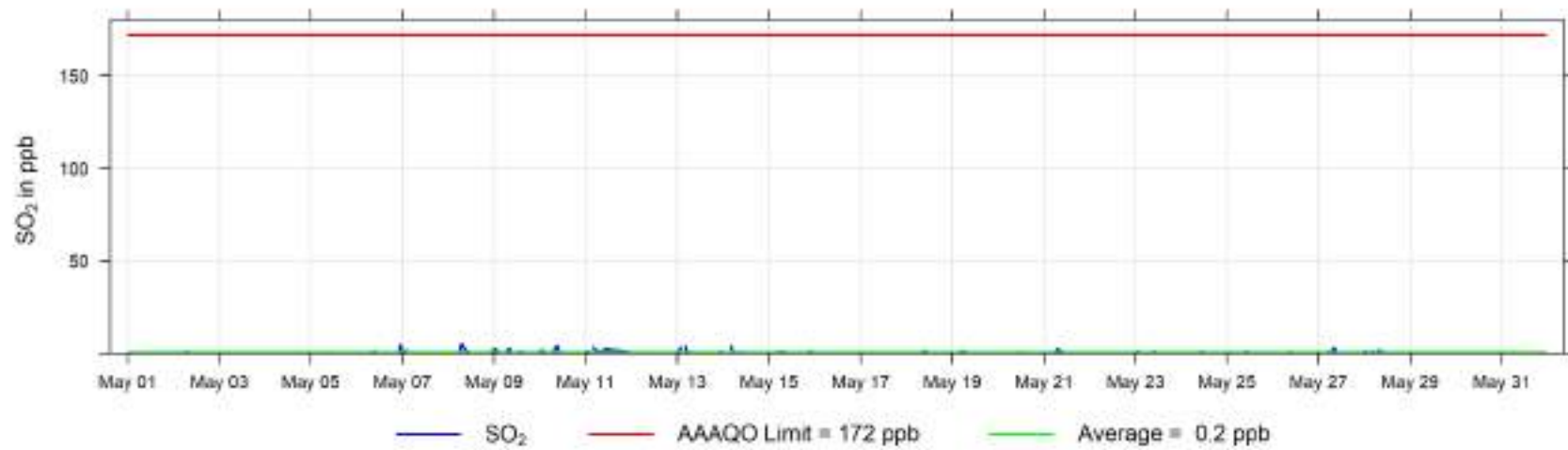


4 Grande Prairie - Henry Pirker Charts

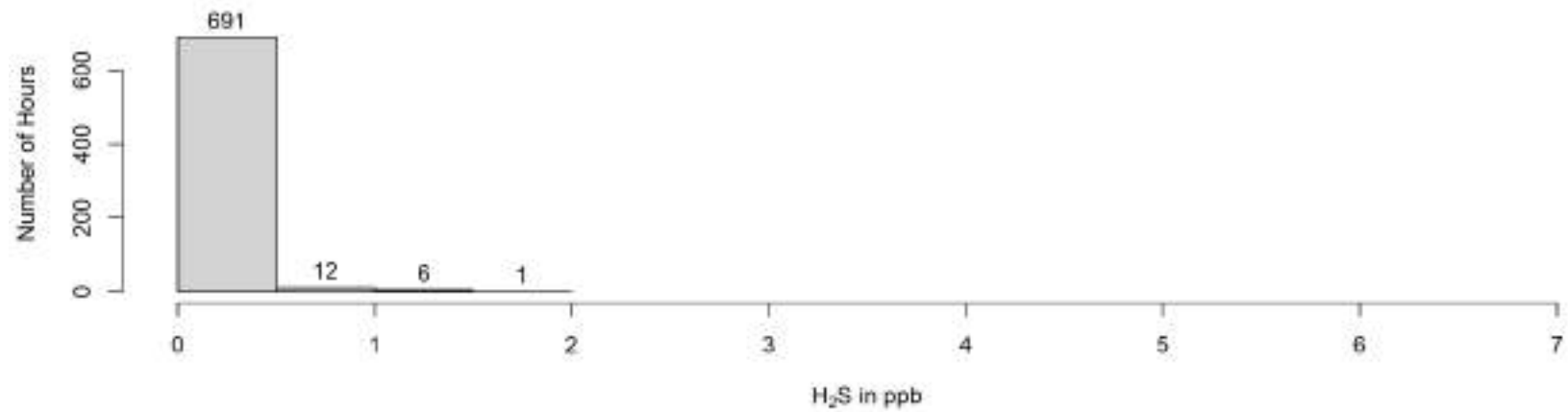
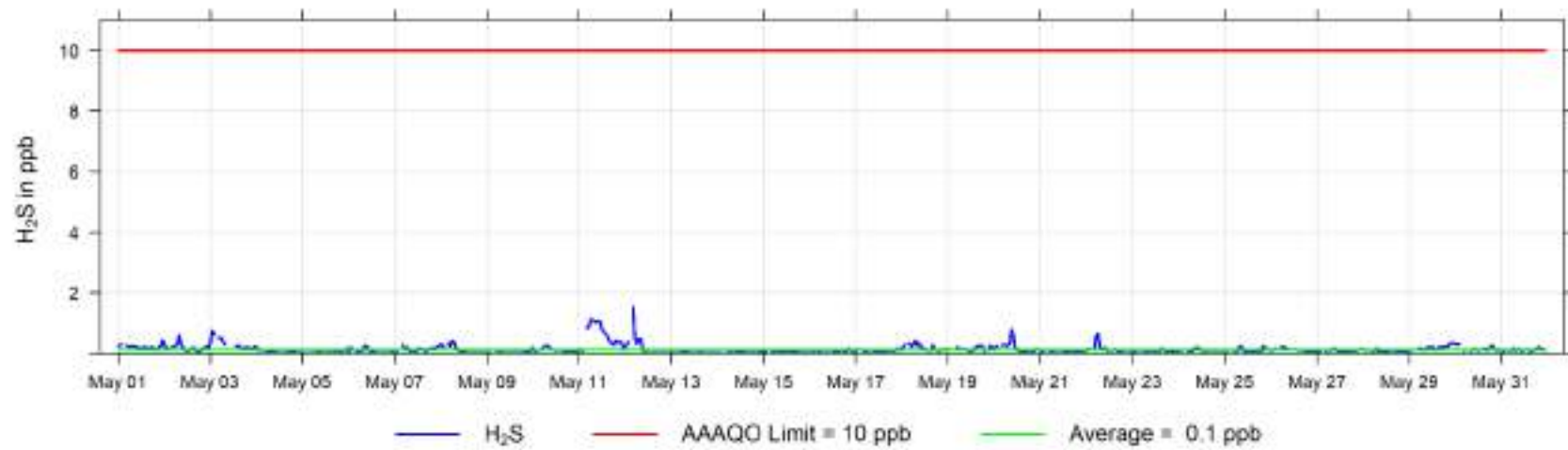
The following pages include the charts and histograms for Henry Pirker Station in Grande Prairie



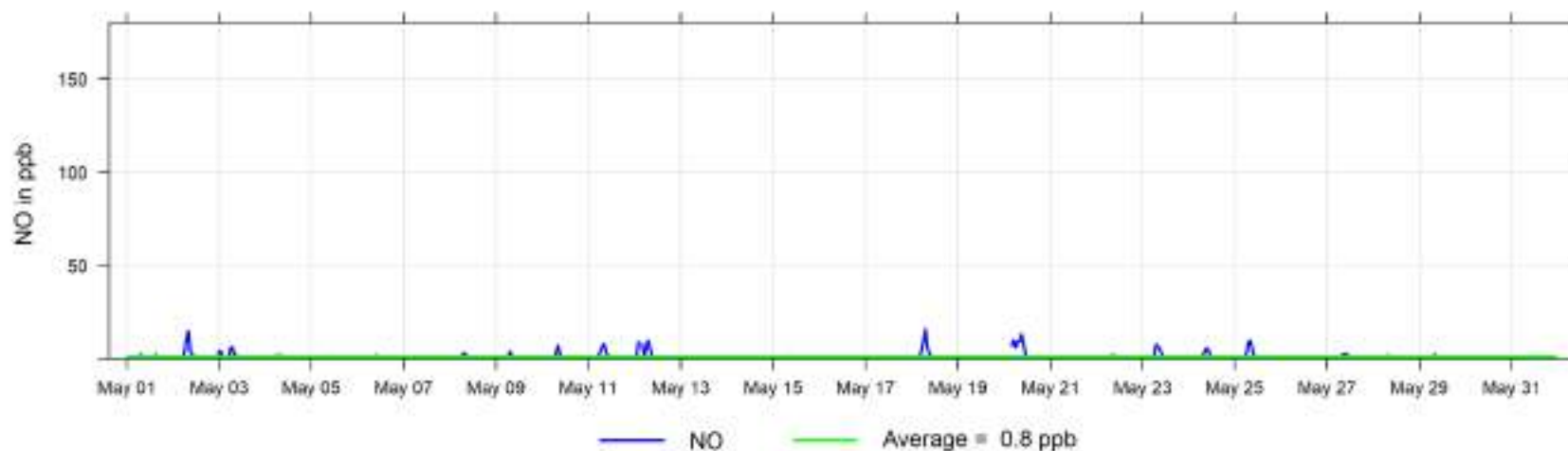
May 2024 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



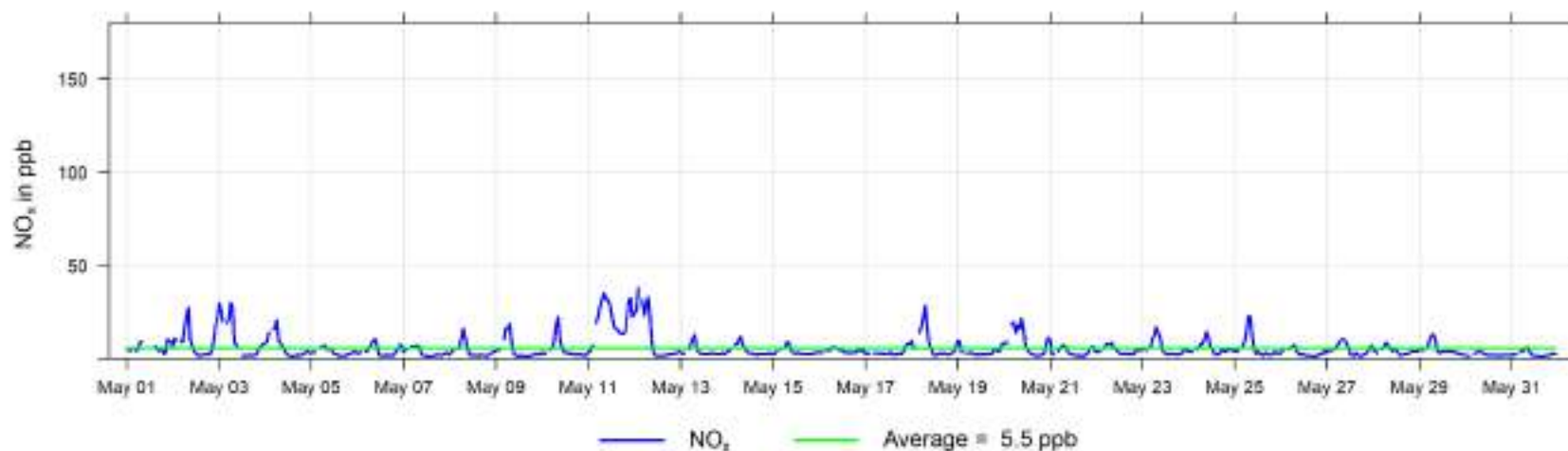
May 2024 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



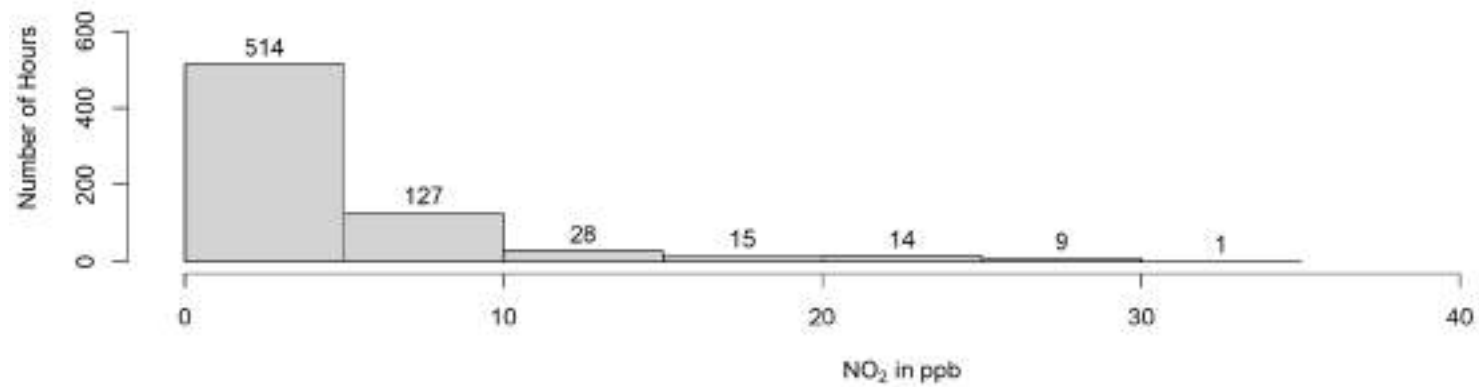
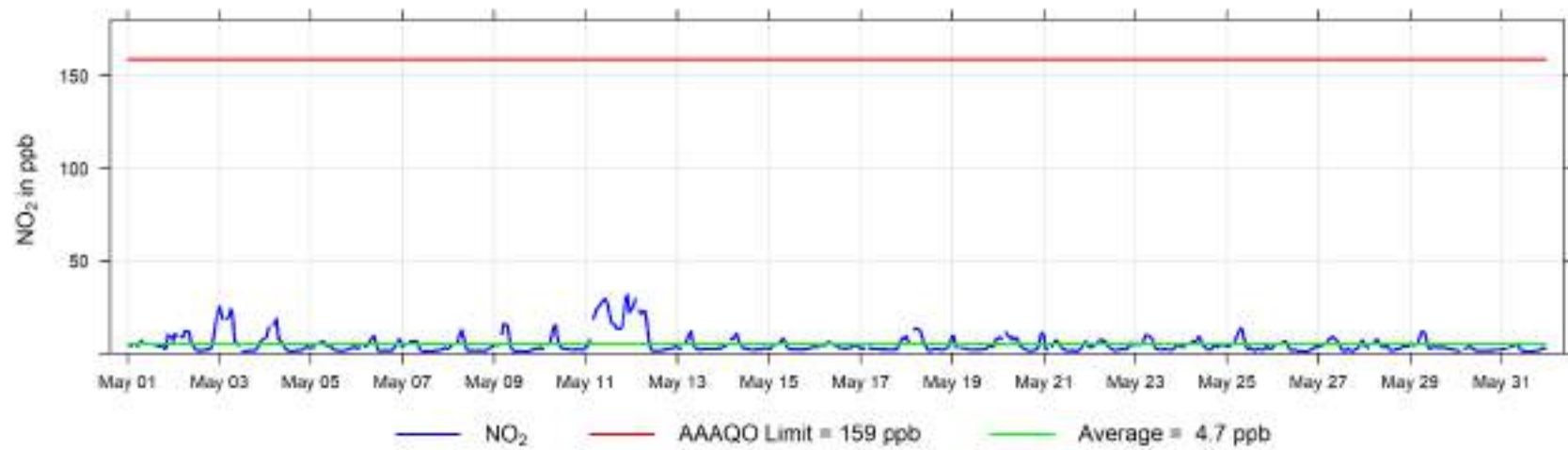
May 2024 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



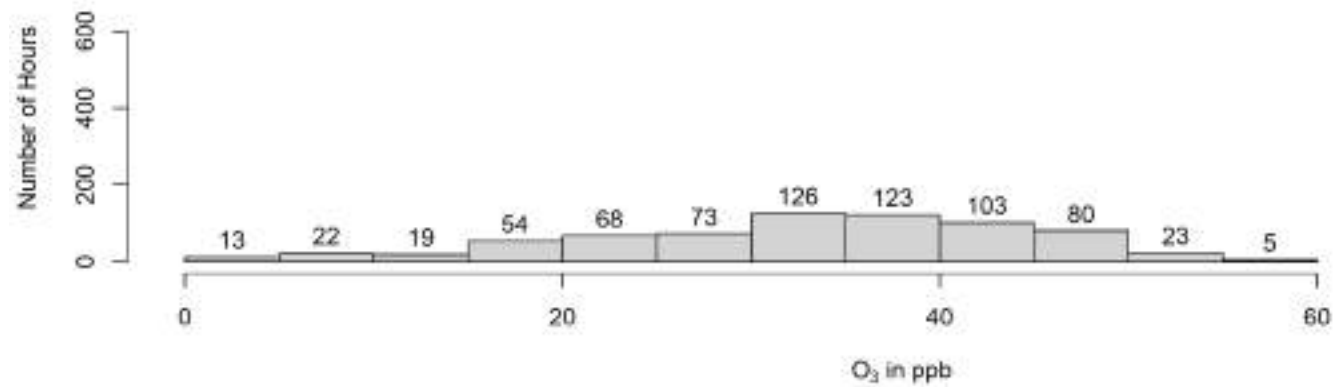
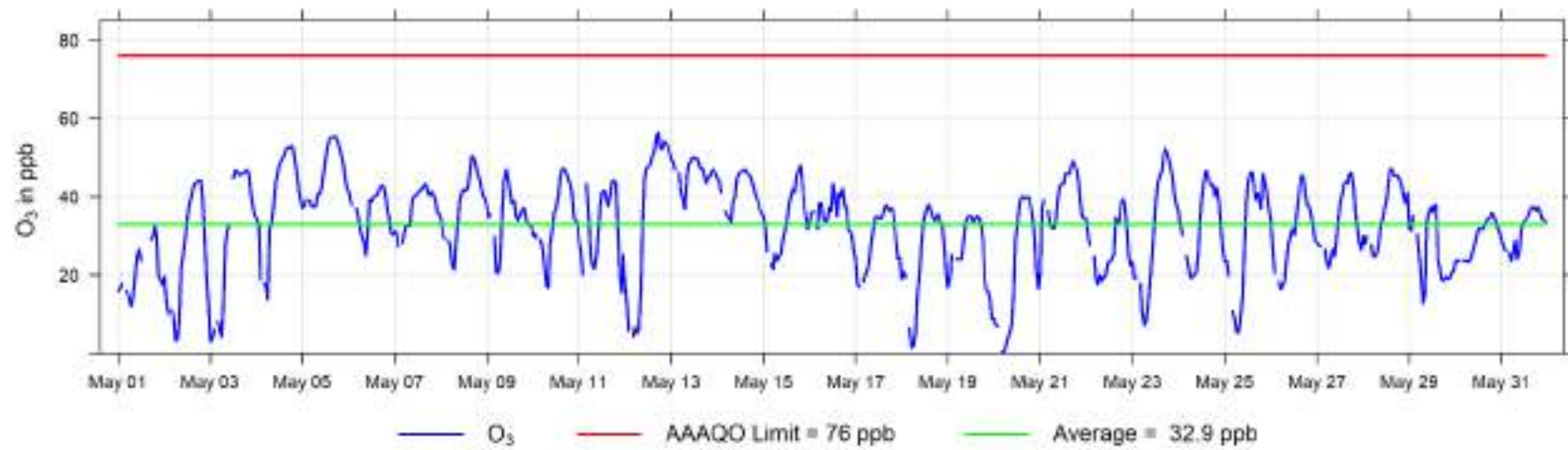
May 2024 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



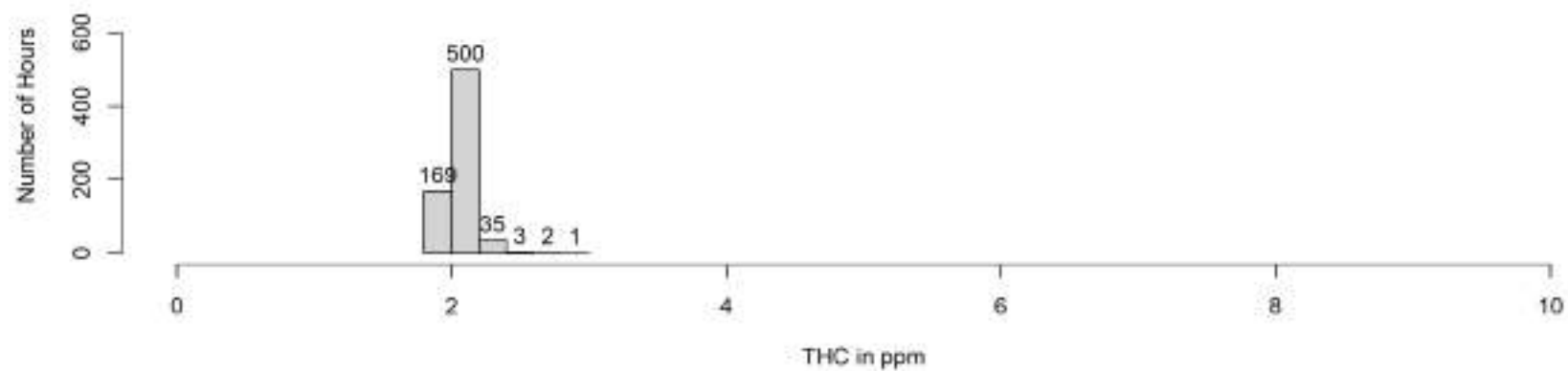
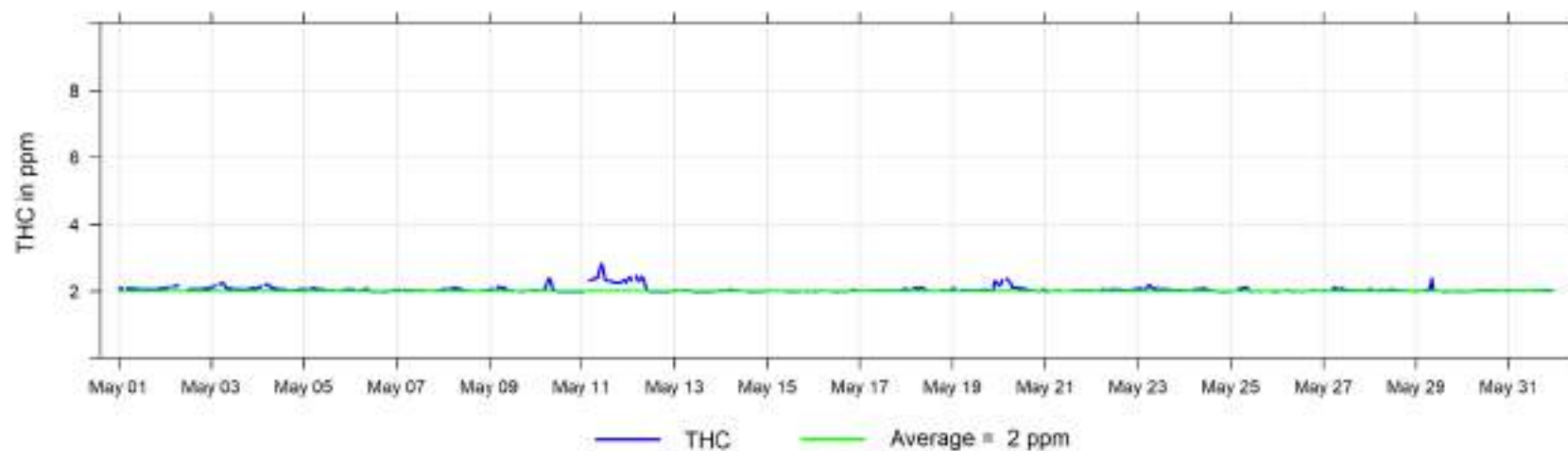
May 2024 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



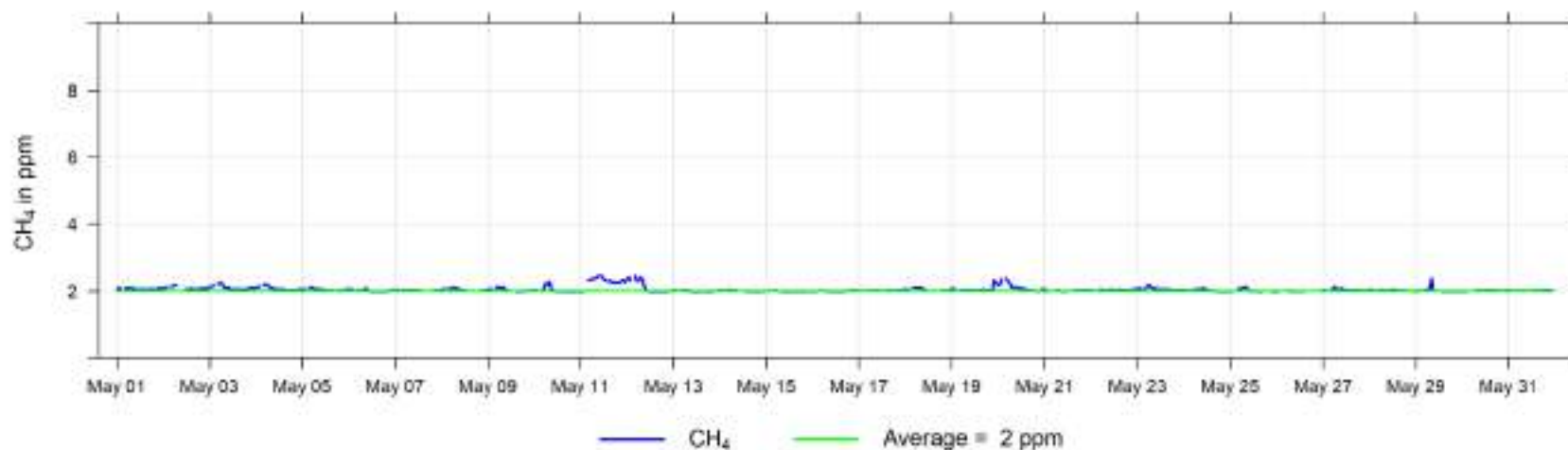
May 2024 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



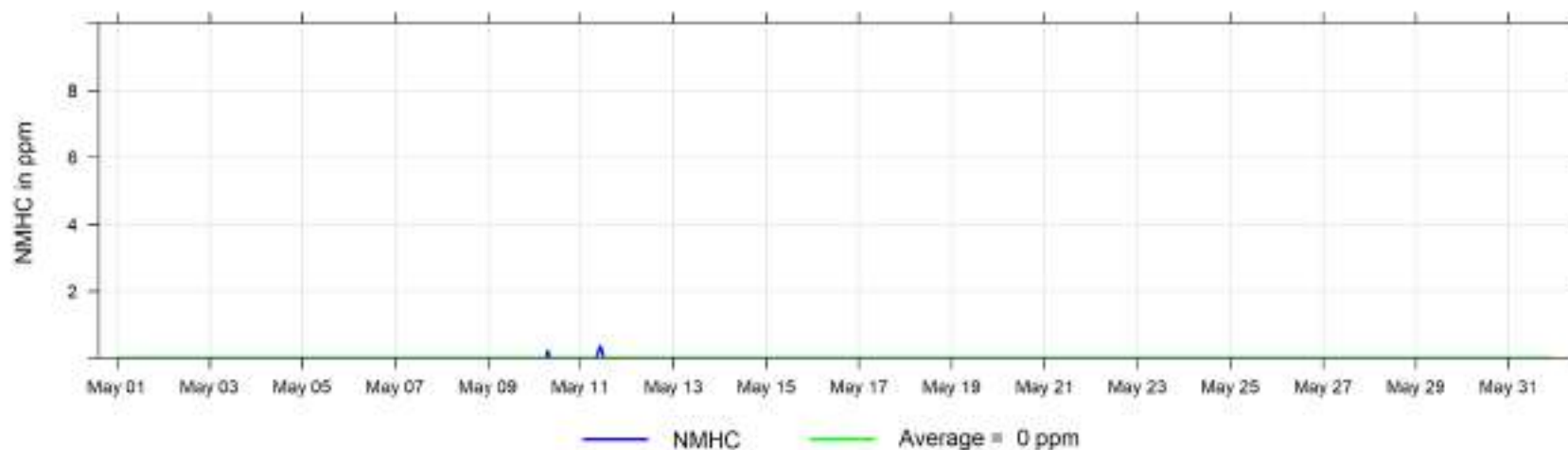
May 2024 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



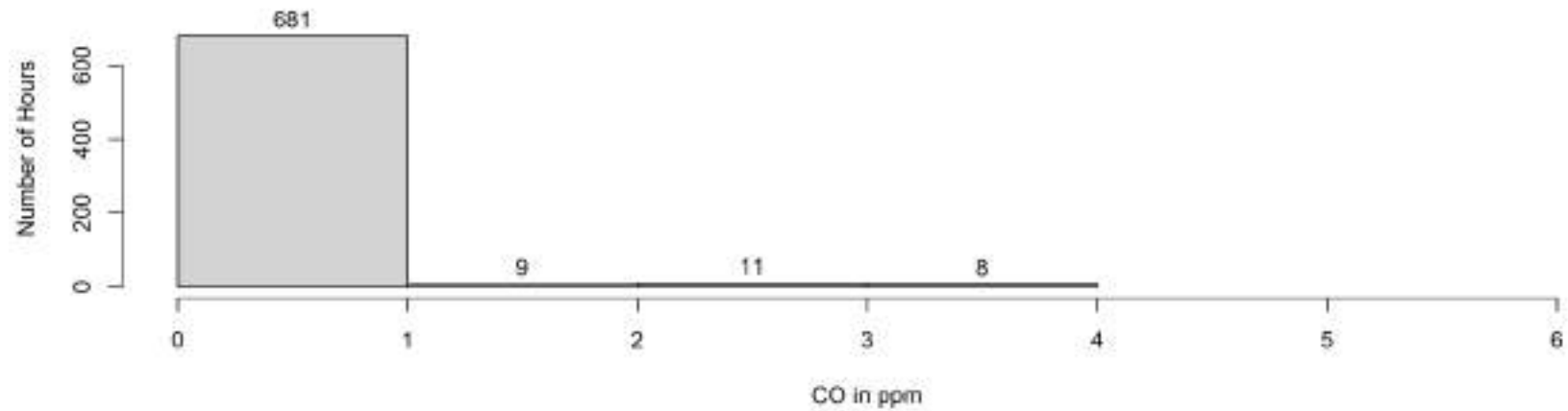
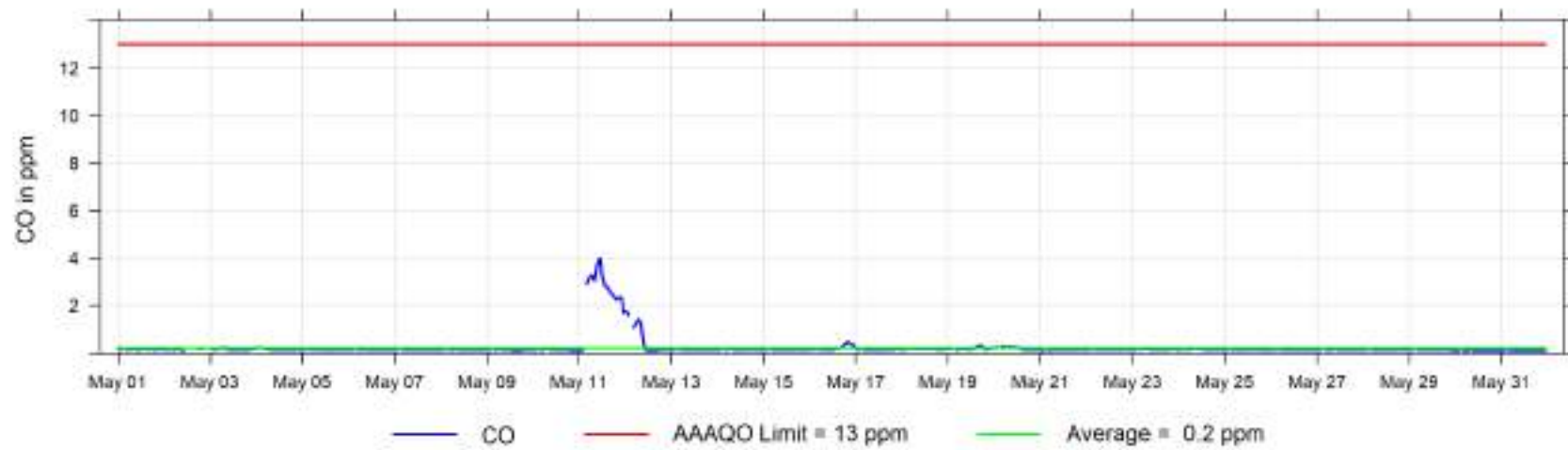
May 2024 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker



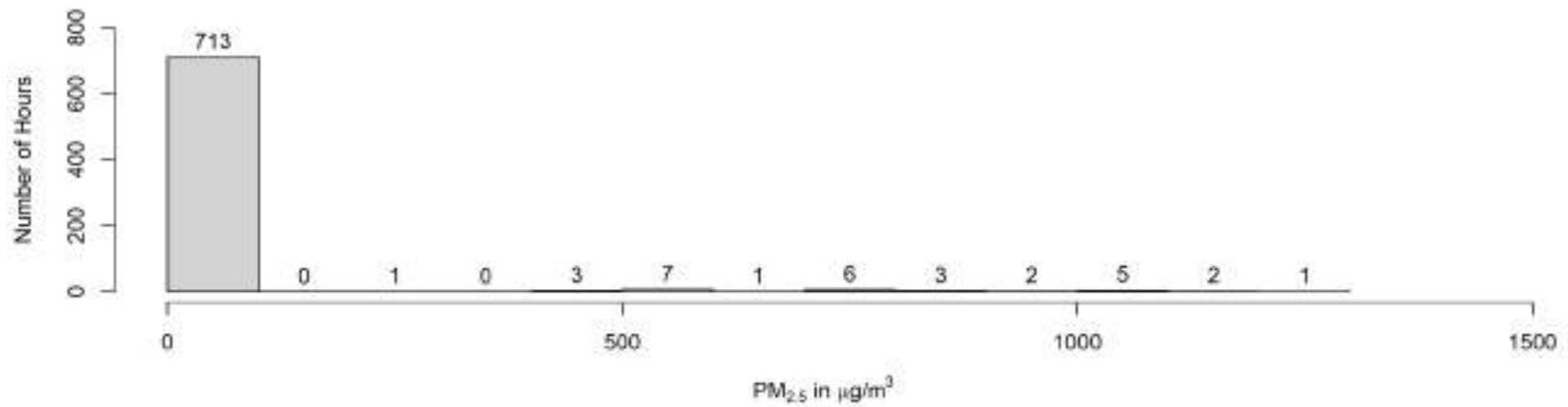
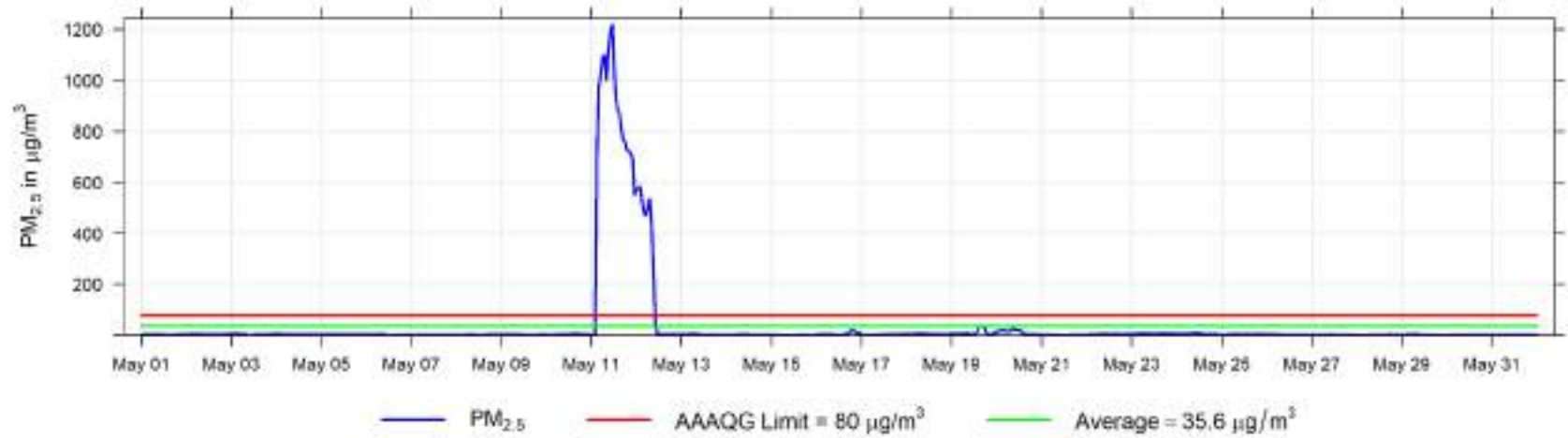
May 2024 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker



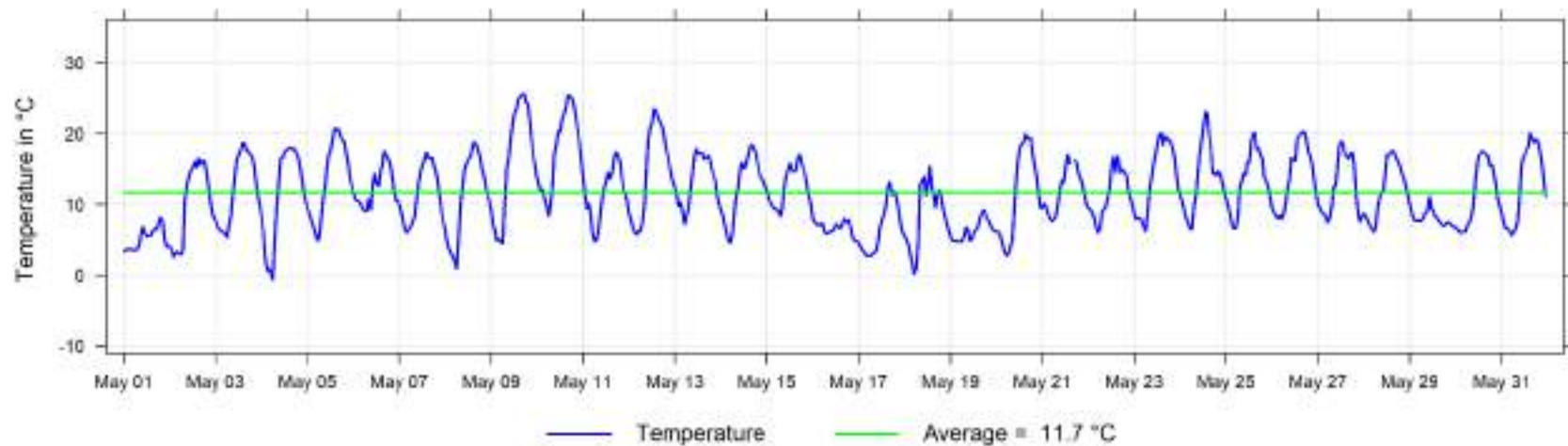
May 2024 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



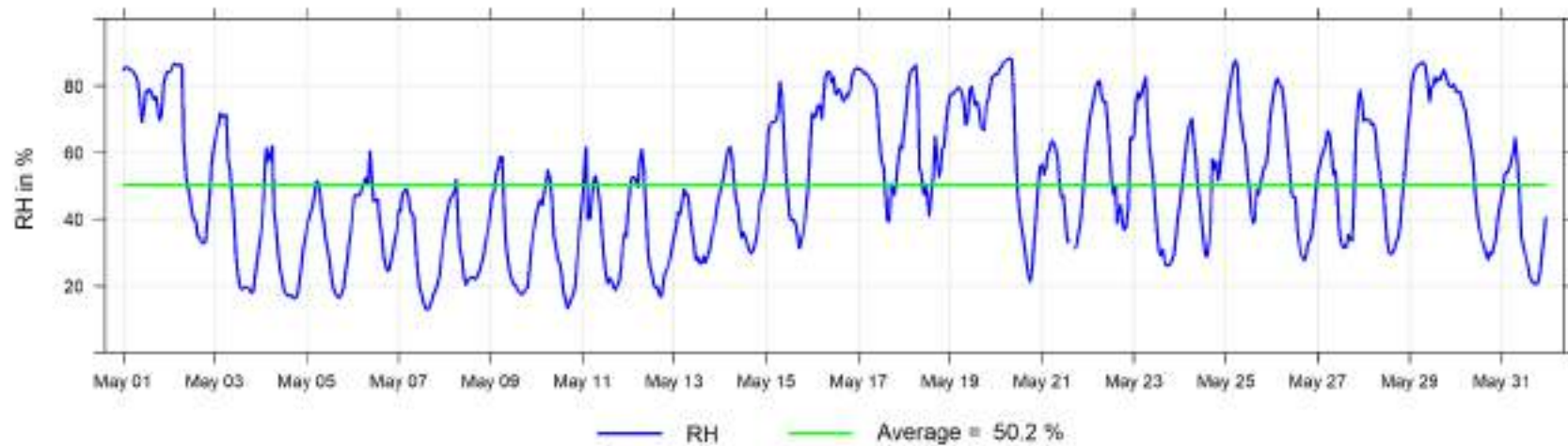
May 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



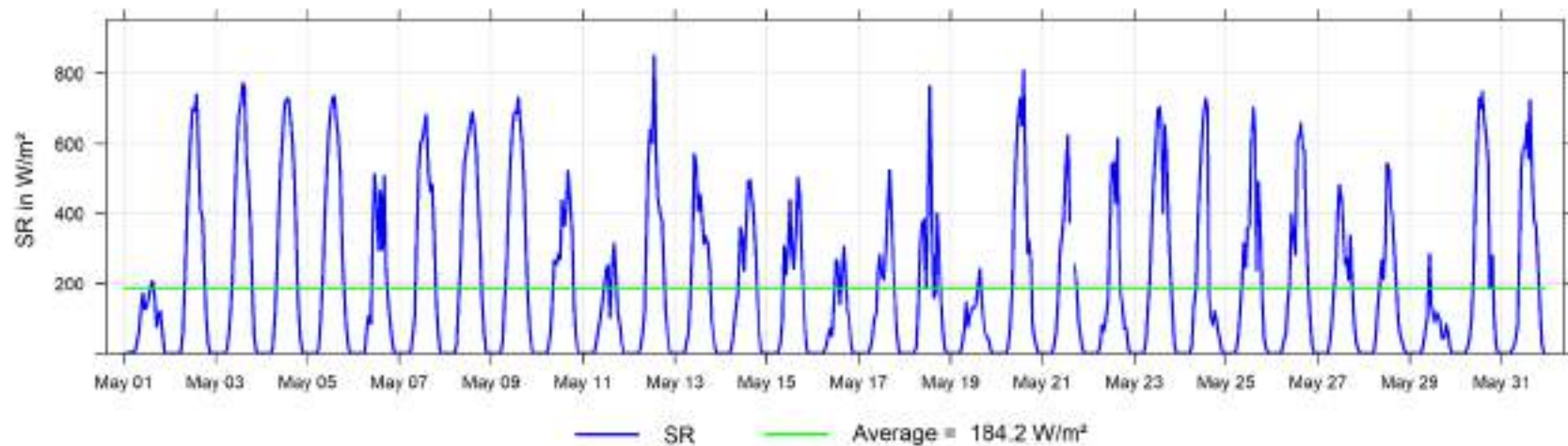
May 2024 Hourly Temperature Readings (in °C) at Henry Pirker



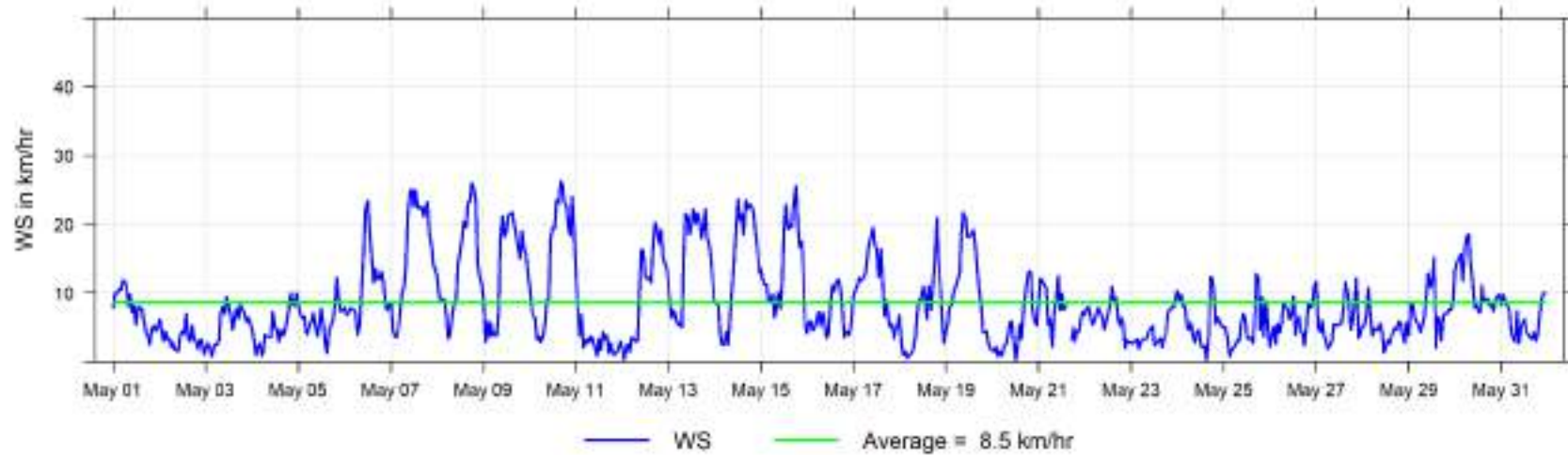
May 2024 Hourly Readings of Relative Humidity (in %) at Henry Pirker



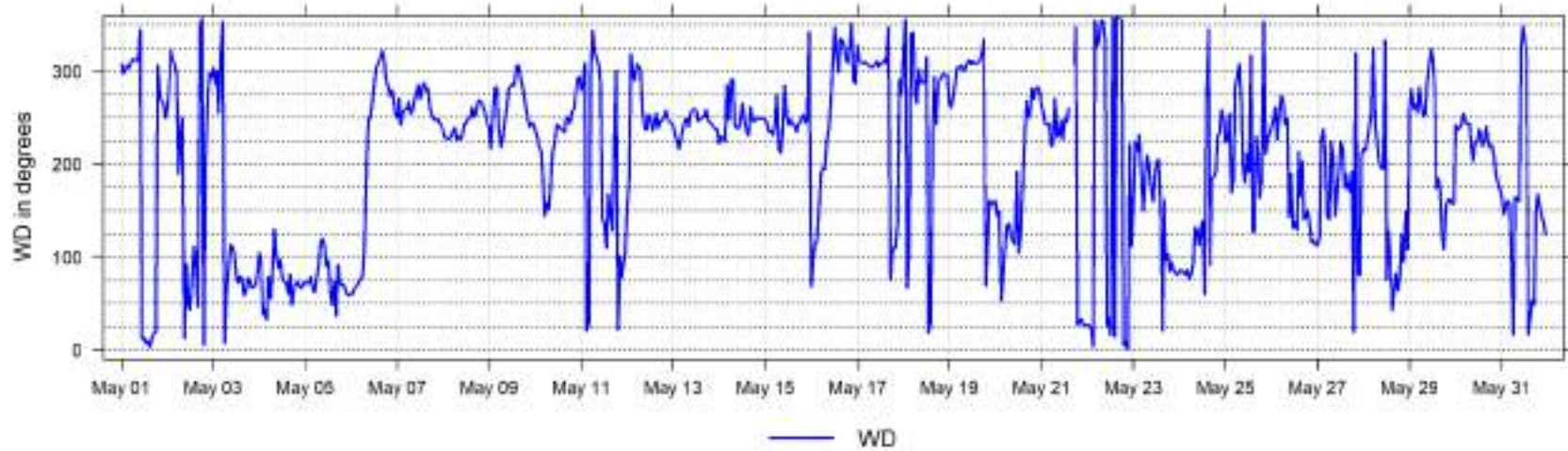
May 2024 Hourly Readings of Solar Radiation (in W/m^2) at Henry Pirker



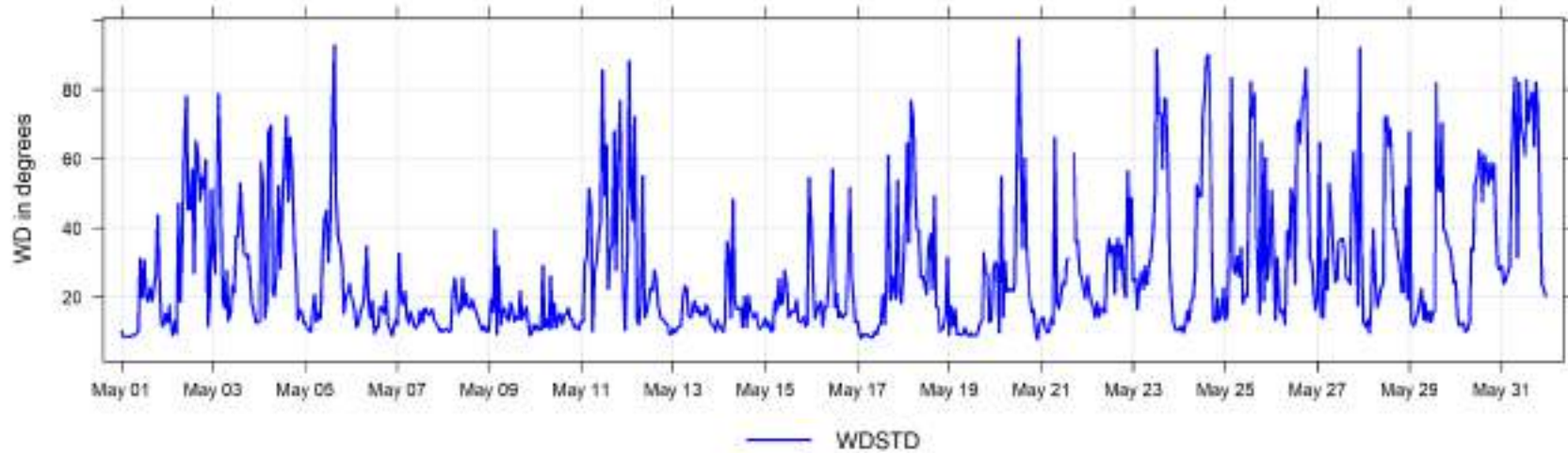
May 2024 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker

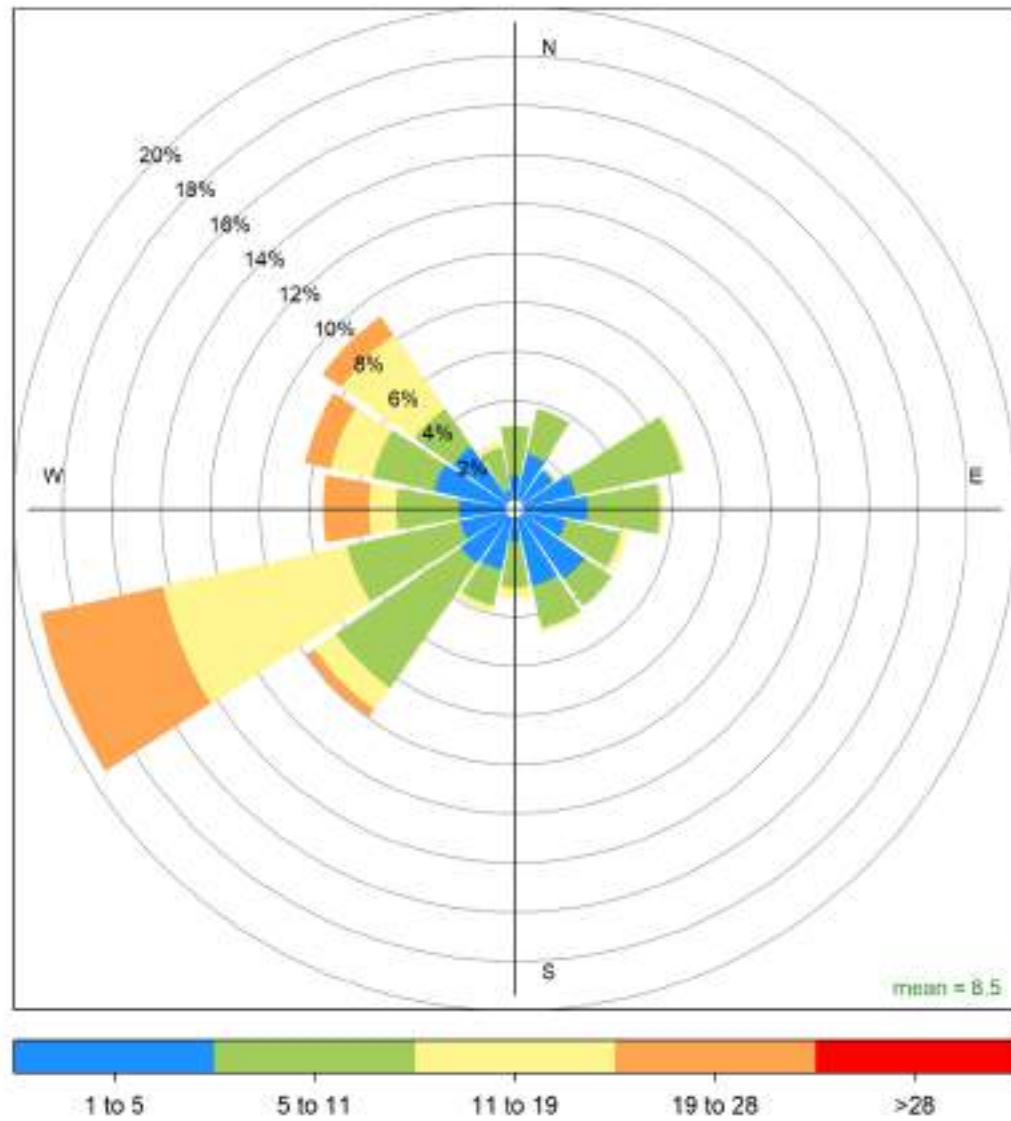


May 2024 Hourly Readings of Wind Direction (in degrees) at Henry Pirker



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



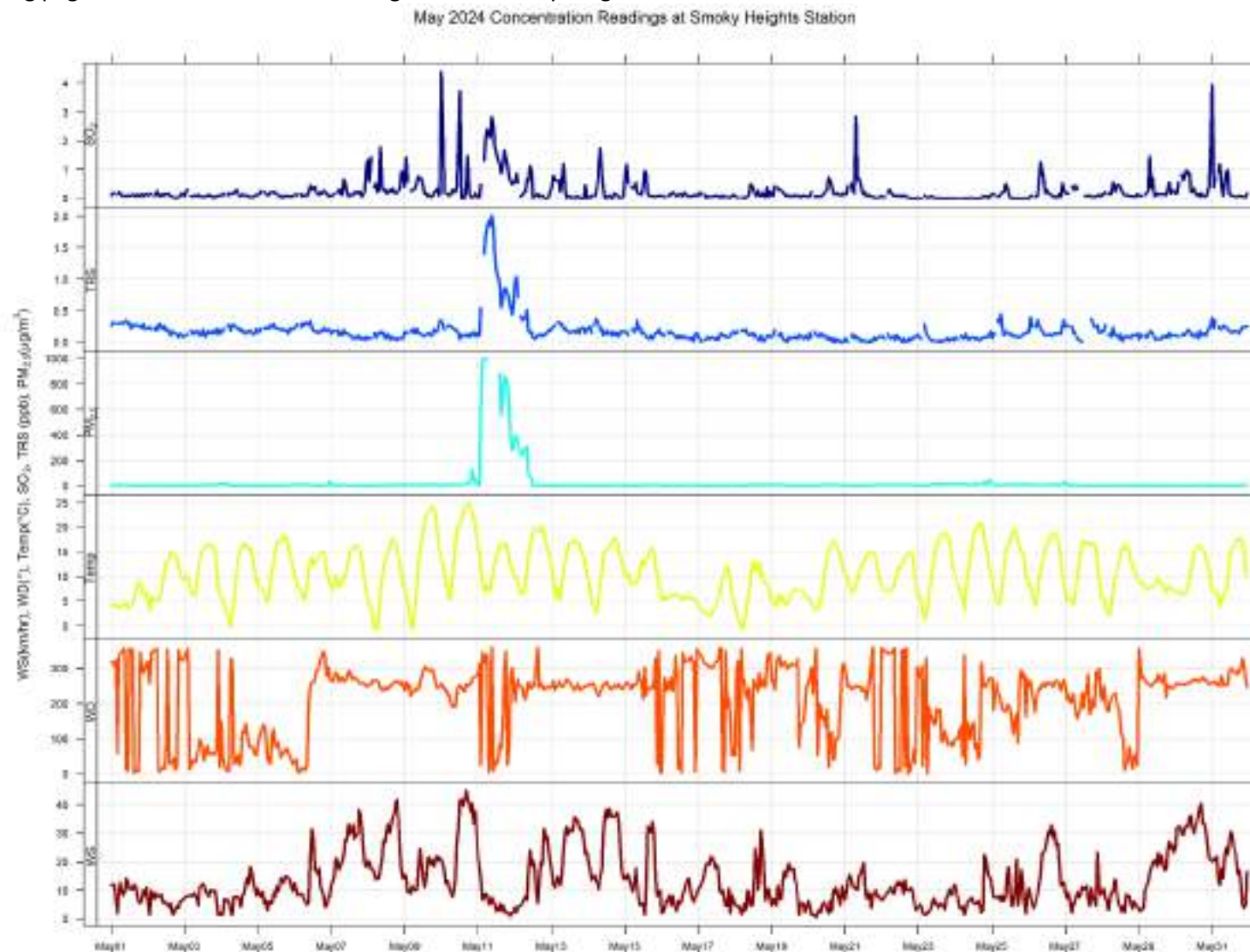


Henry Pirker May 2024 Wind Rose, wind speed in km/hr

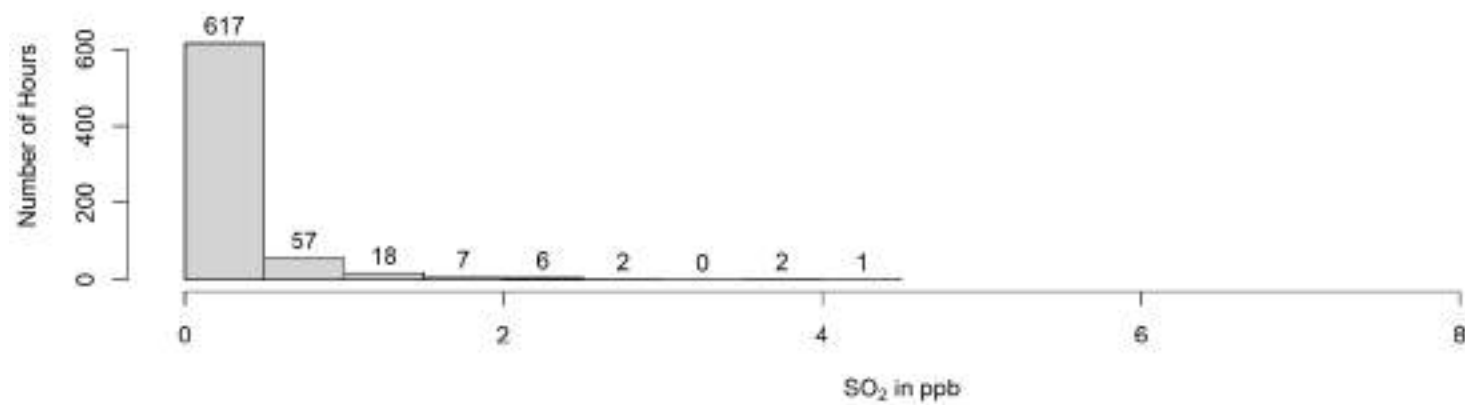
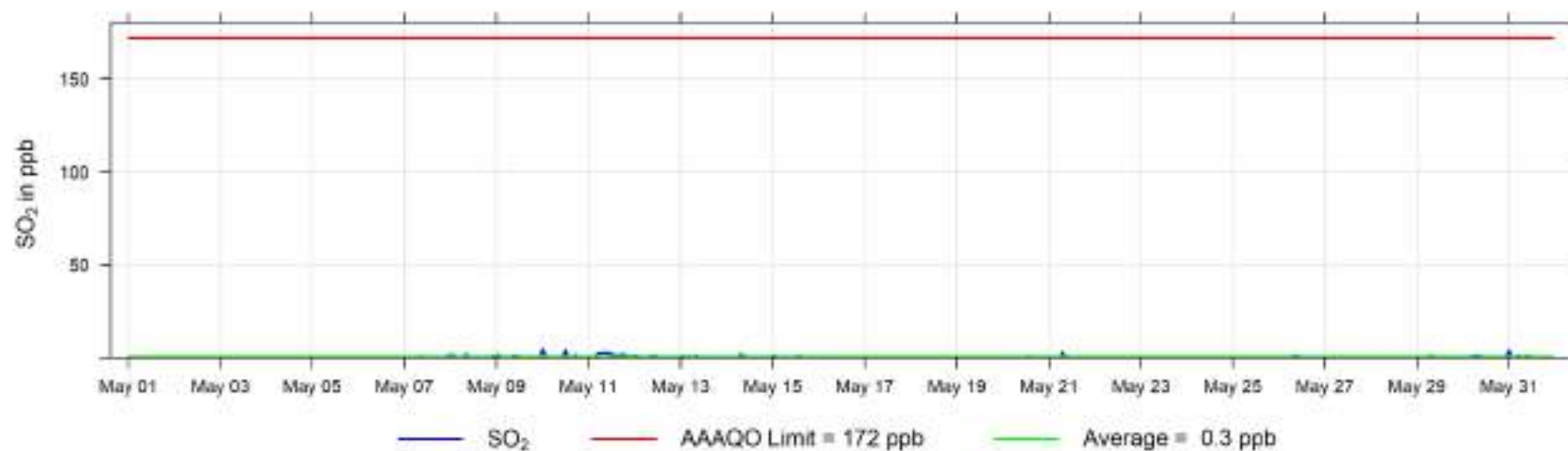
Calms (<1km/hr) = 1.9 %

5 Smoky Heights Charts

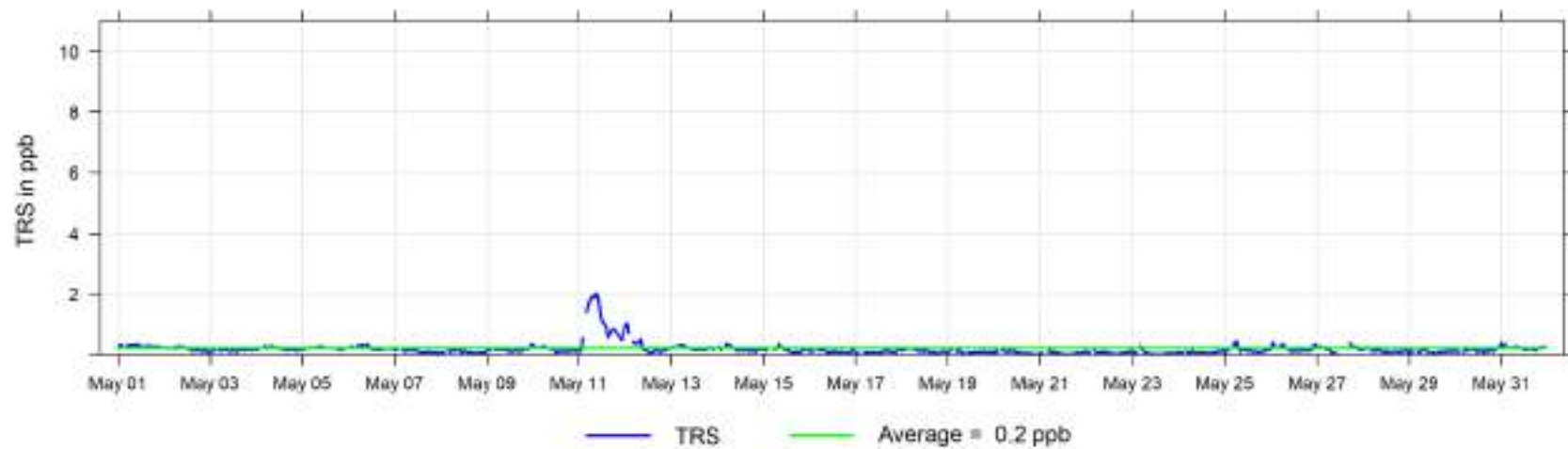
The following pages include the charts and histograms for Smoky Heights Station



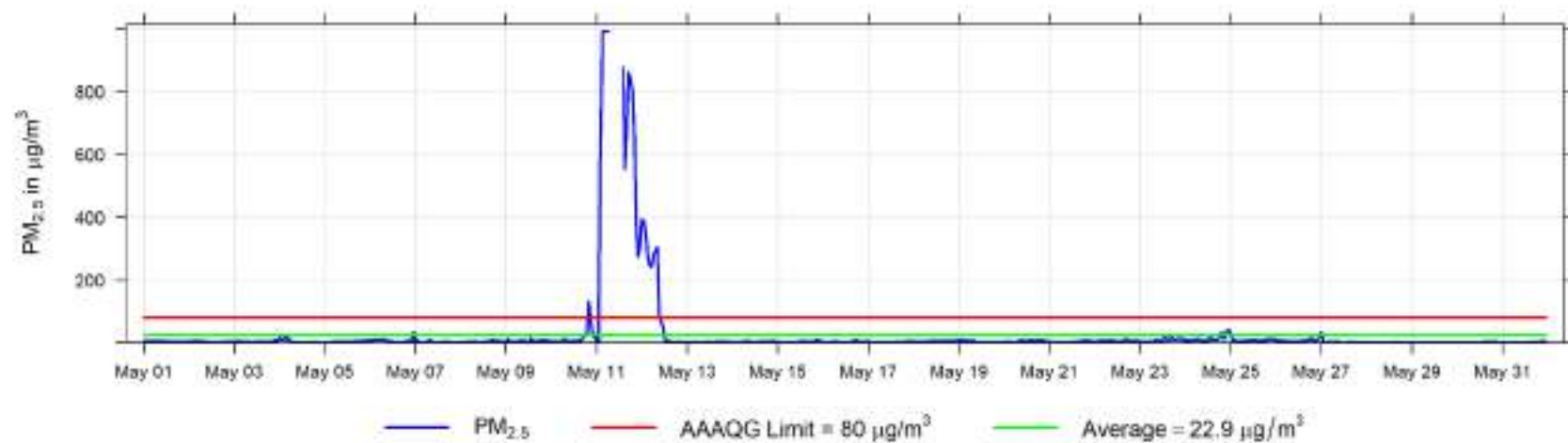
May 2024 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights

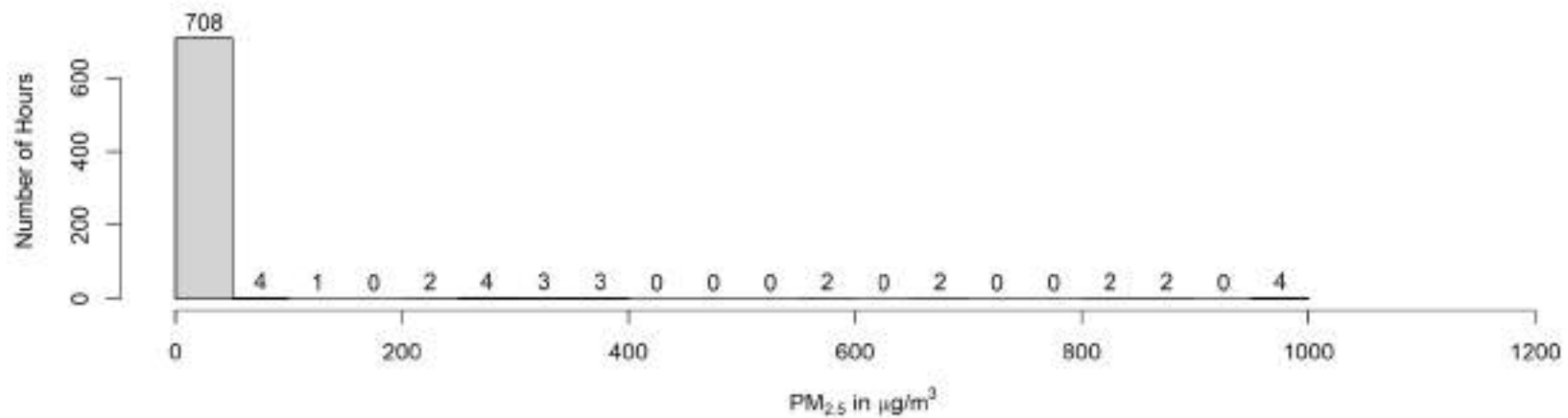


May 2024 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights

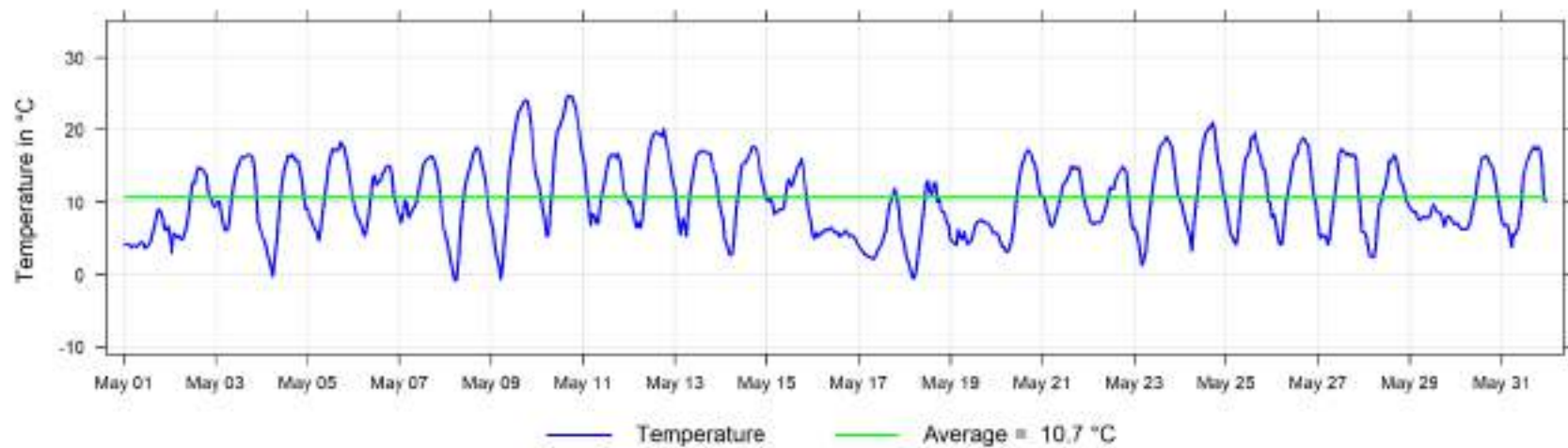


May 2024 Hourly Concentration Readings of $PM_{2.5}$ in $\mu g/m^3$ at Smoky Heights

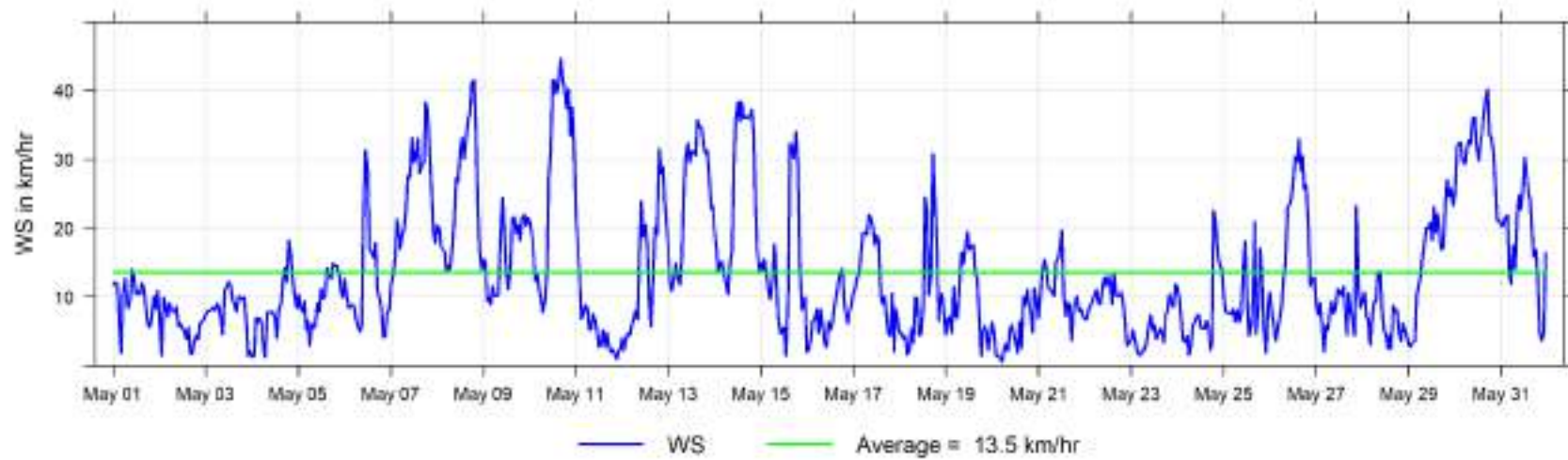




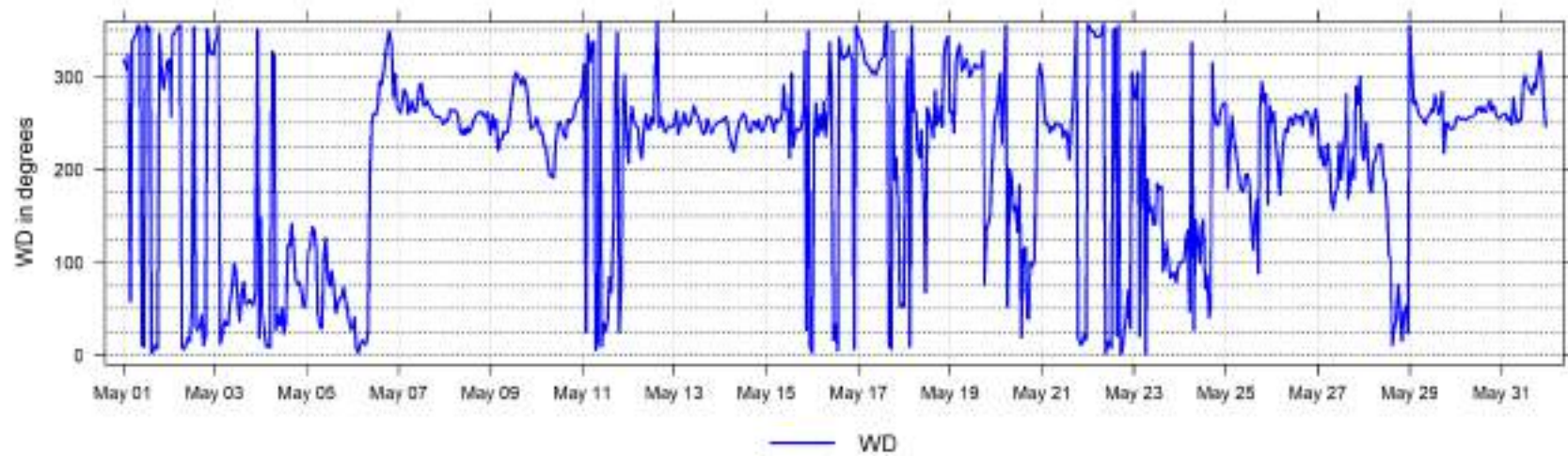
May 2024 Hourly Temperature Readings (in °C) at Smoky Heights



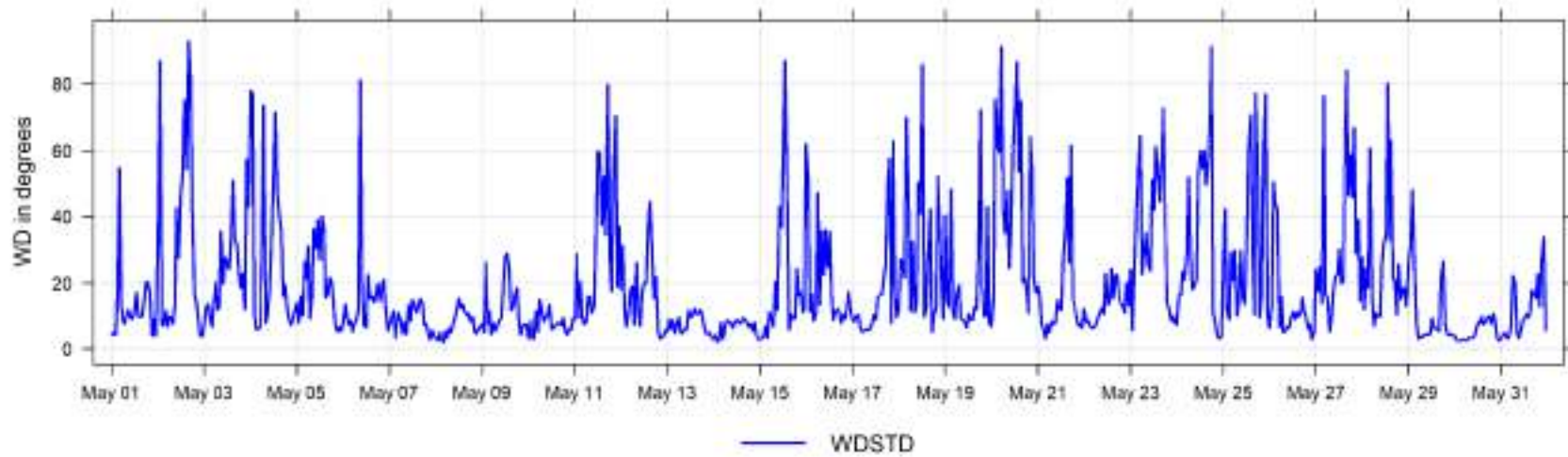
May 2024 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

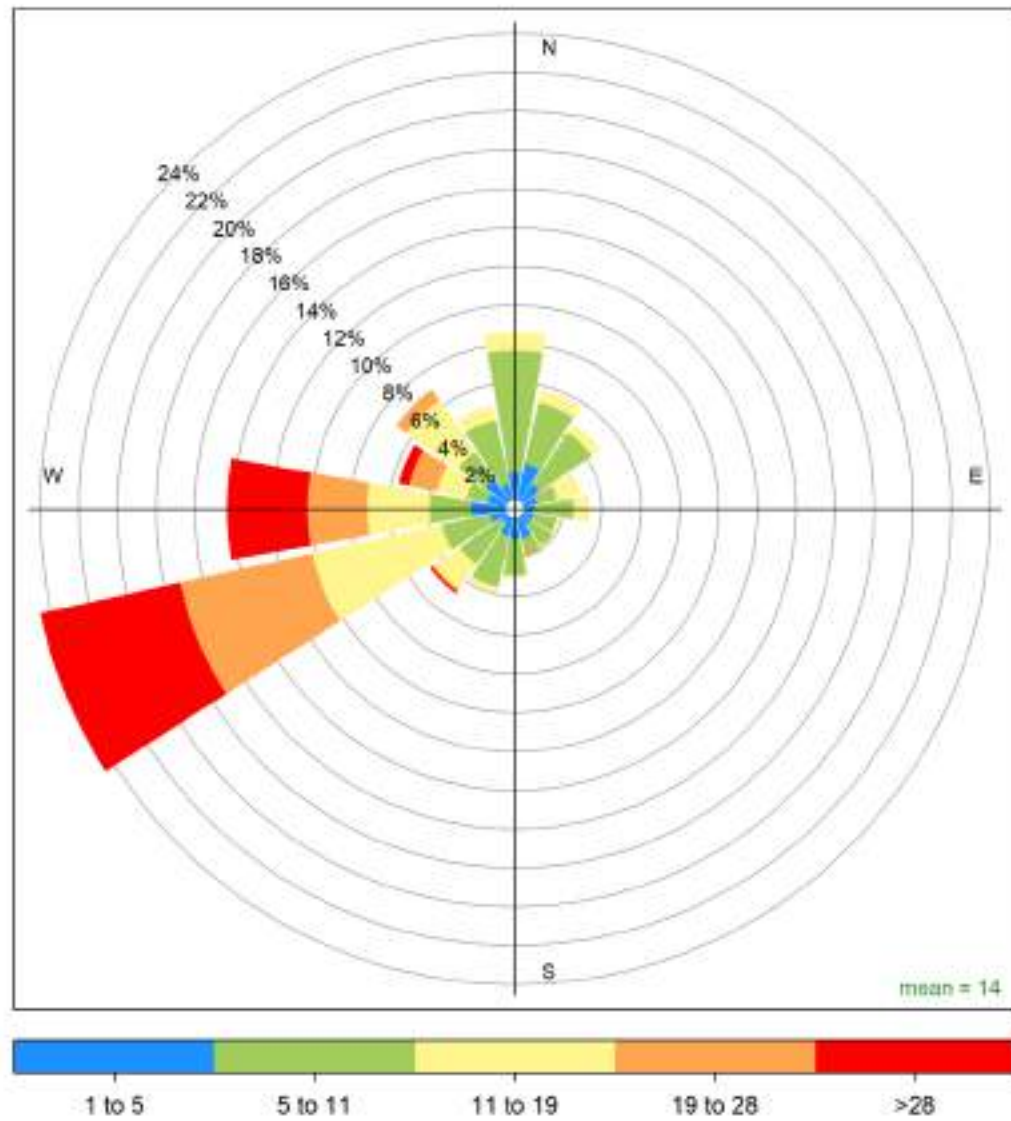


May 2024 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



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



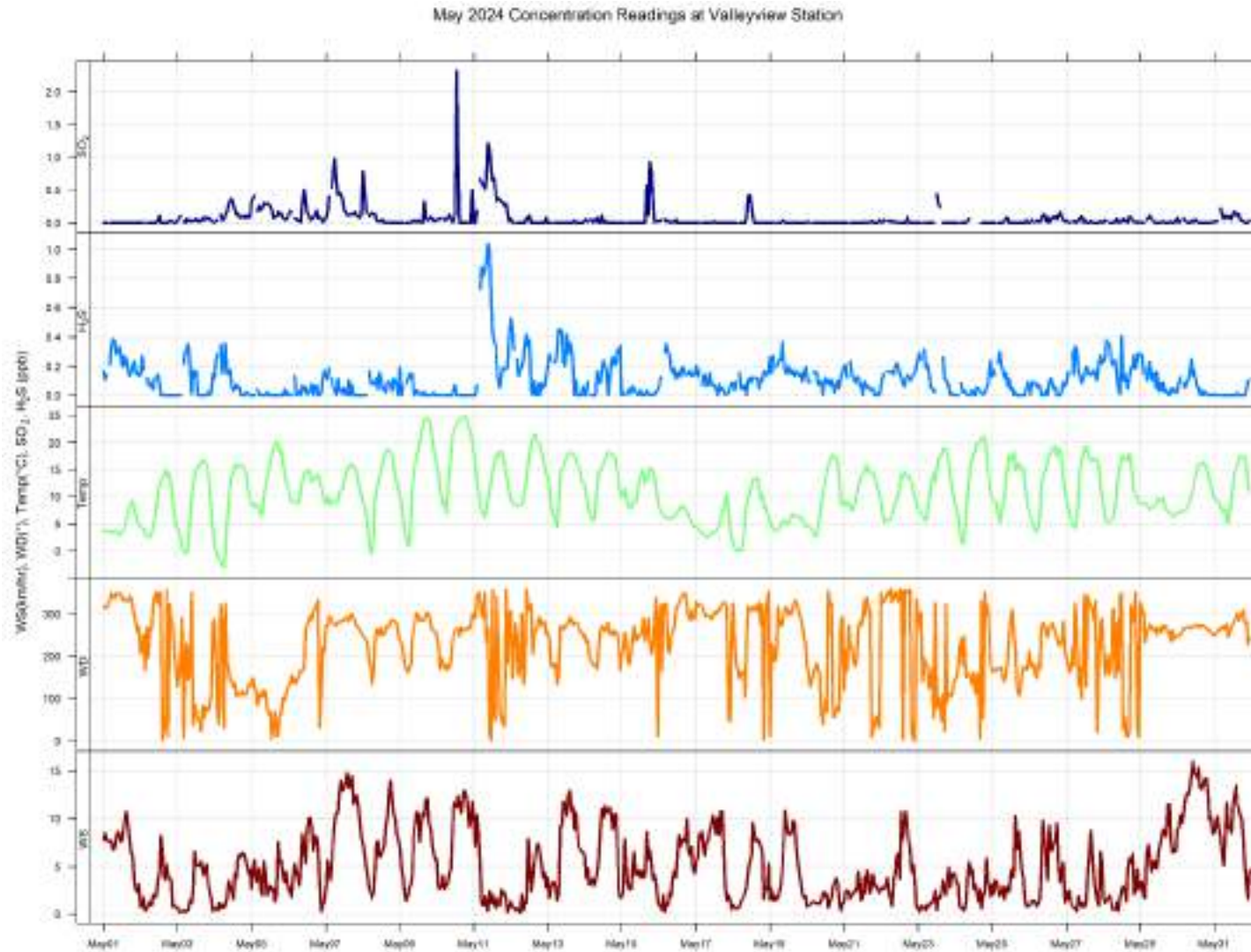


Smoky Heights May 2024 Wind Rose, wind speed in km/hr

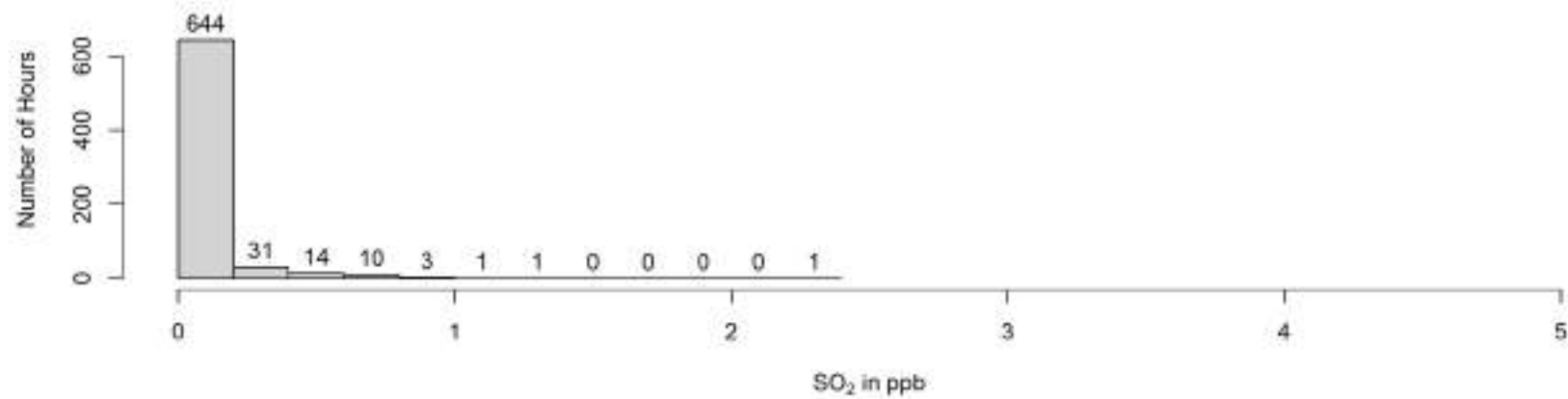
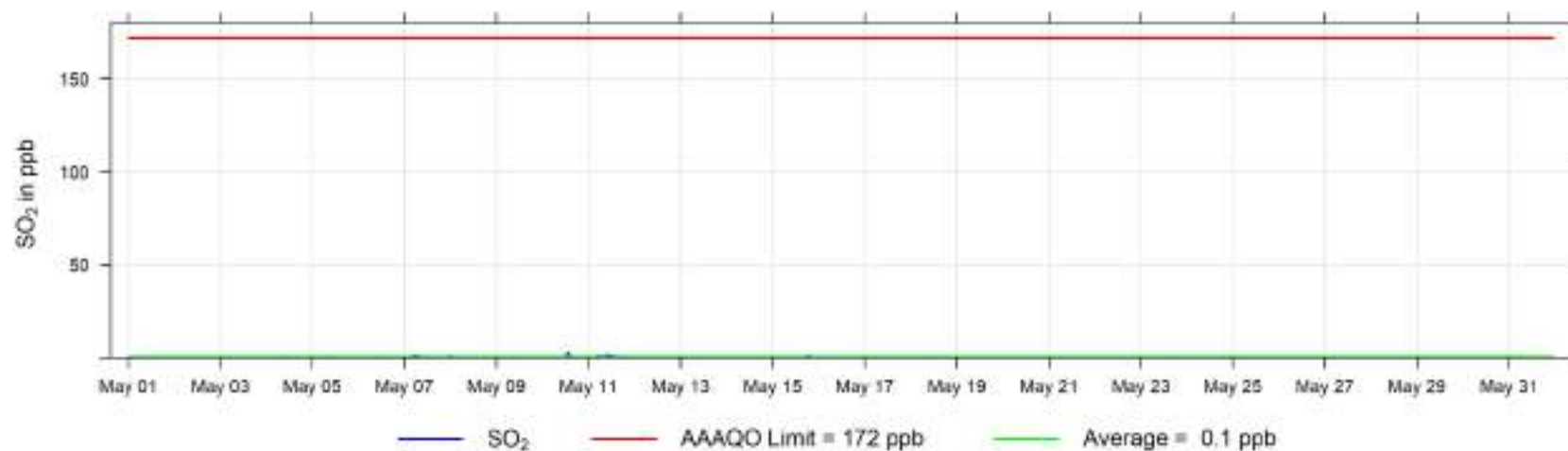
Calms (<1km/hr) = 0.3 %

6 Valleyview Charts

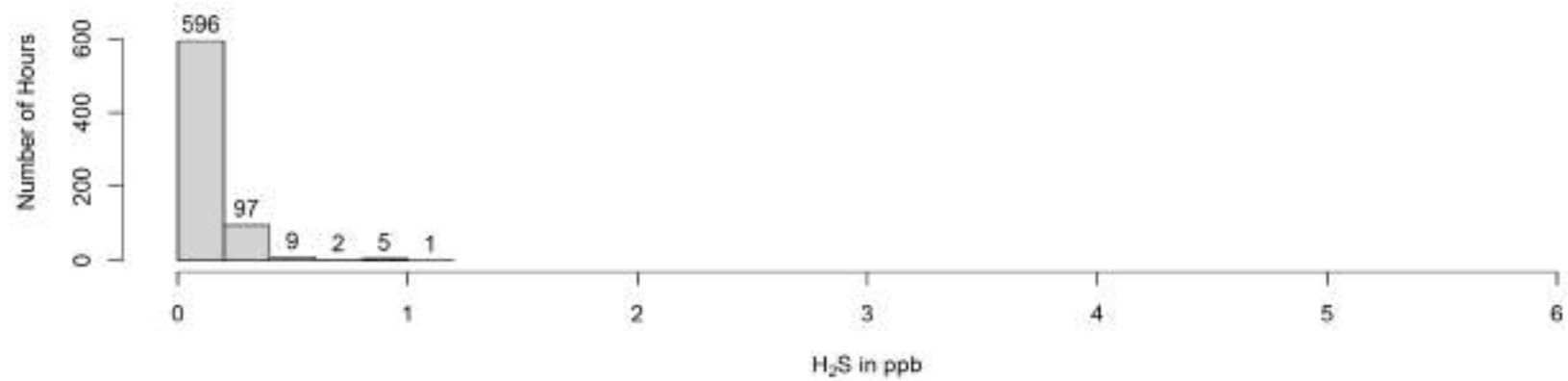
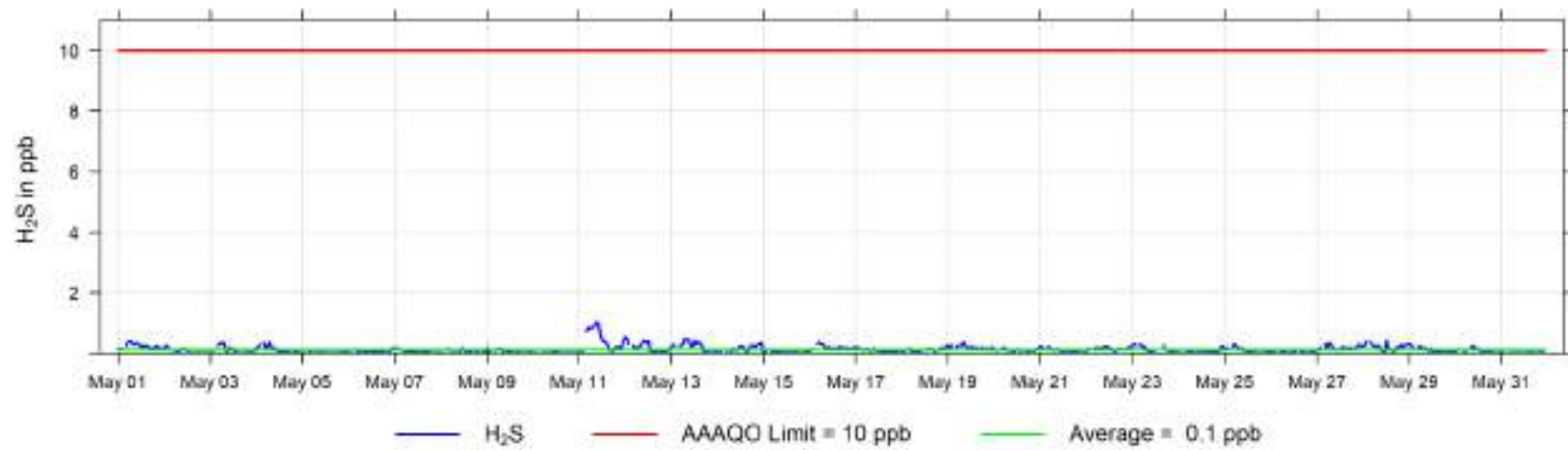
The following pages include the charts and histograms for Valleyview Station



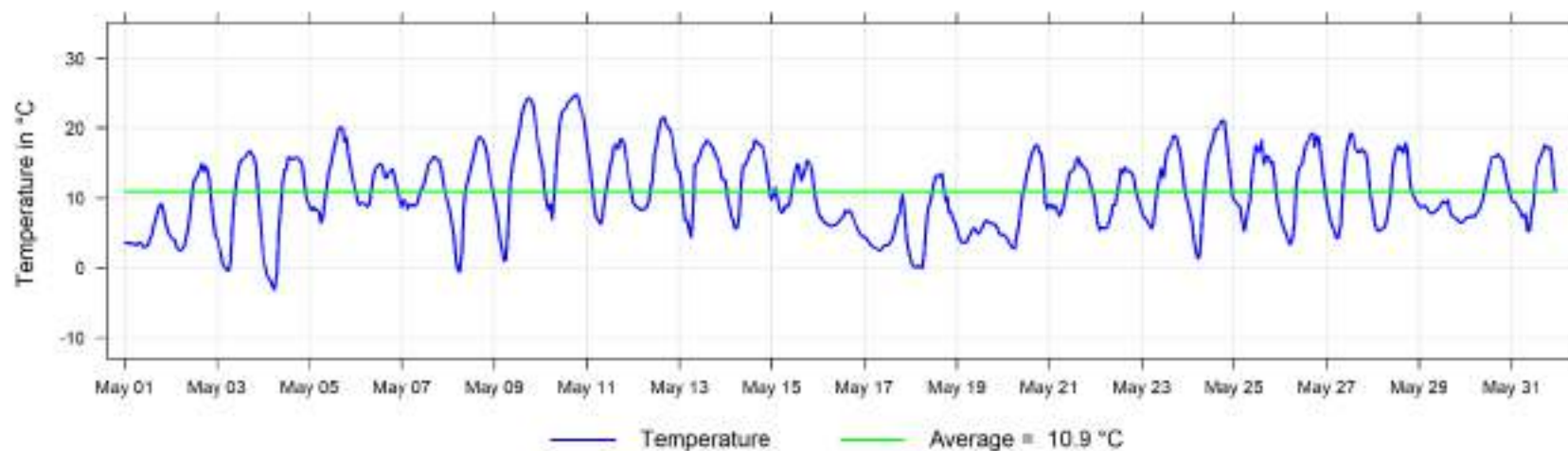
May 2024 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



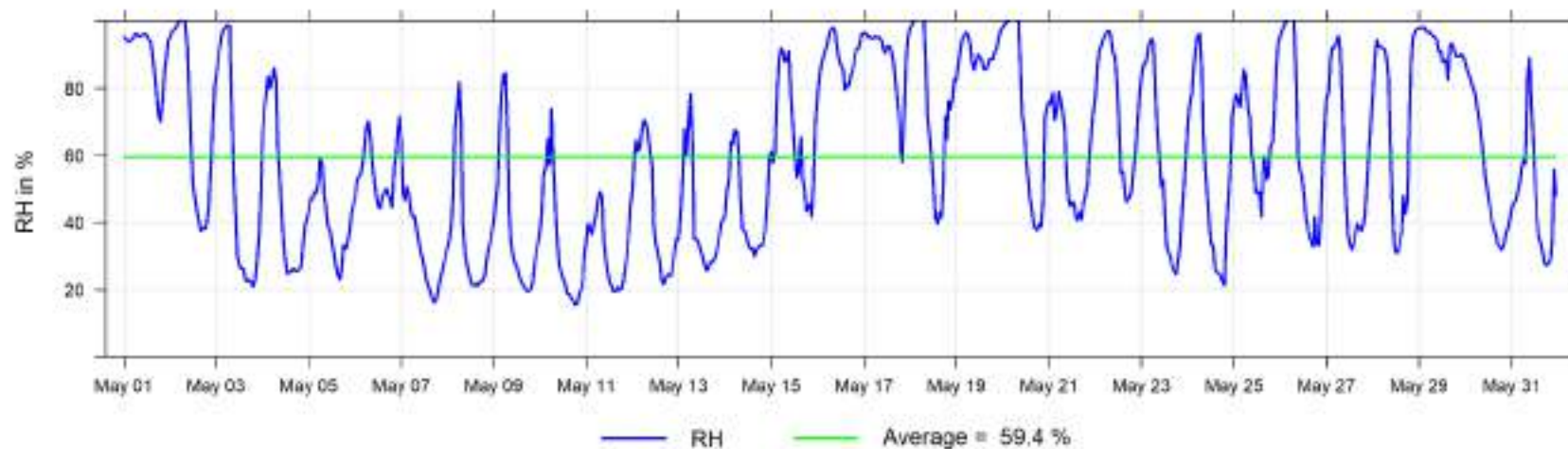
May 2024 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



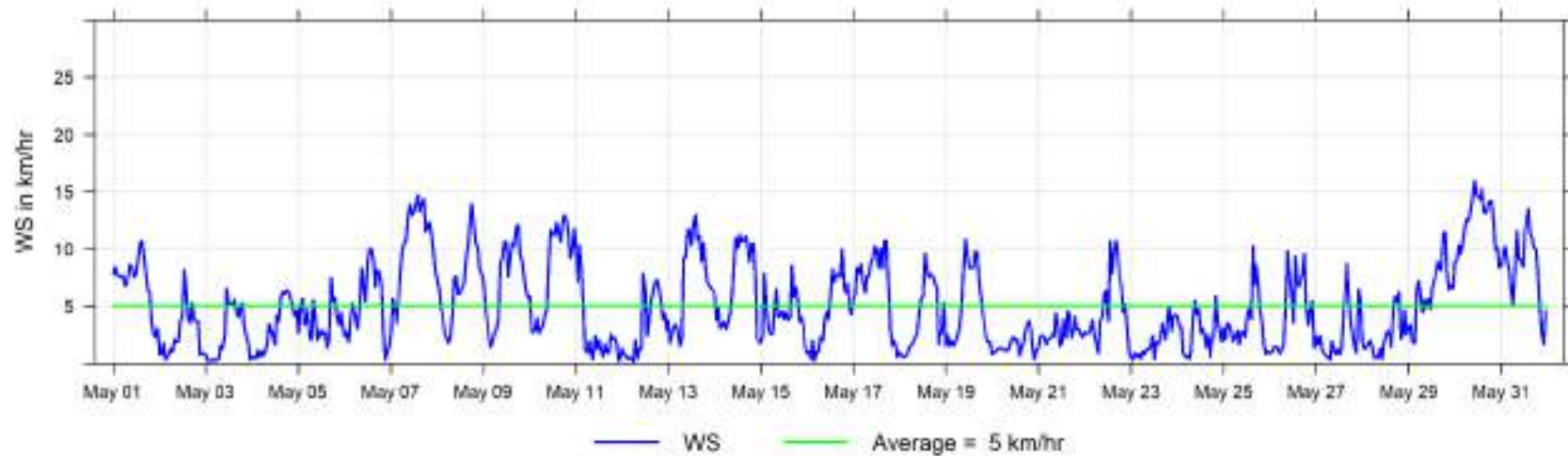
May 2024 Hourly Temperature Readings (in °C) at Valleyview



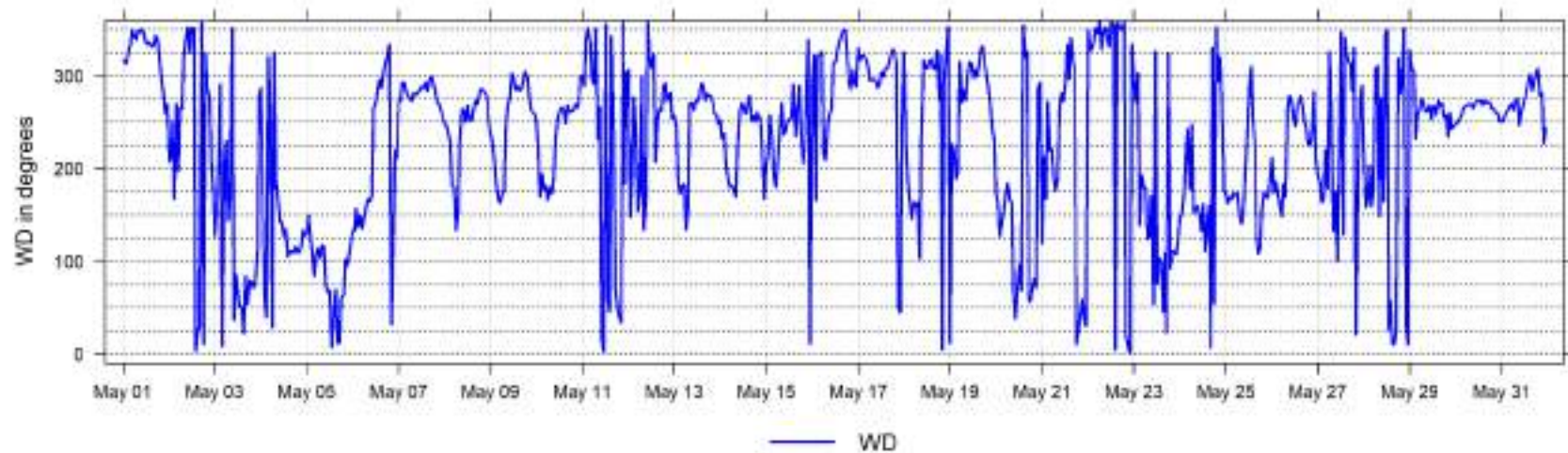
May 2024 Hourly Readings of Relative Humidity (in %) at Valleyview



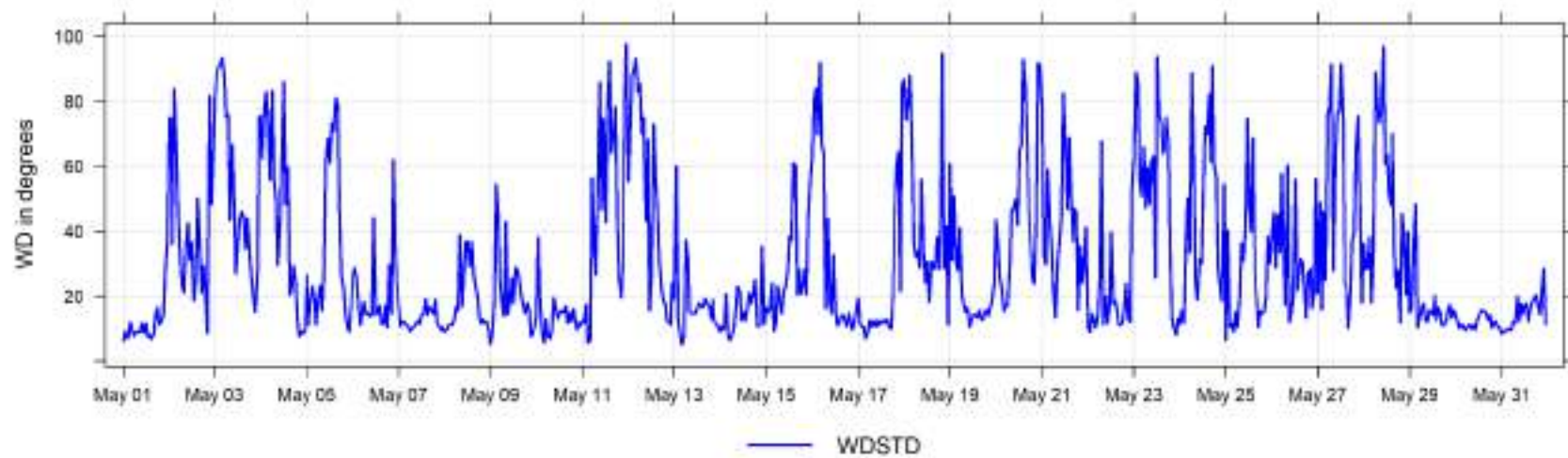
May 2024 Hourly Readings of Wind Speed (in km/hr) at Valleyview



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

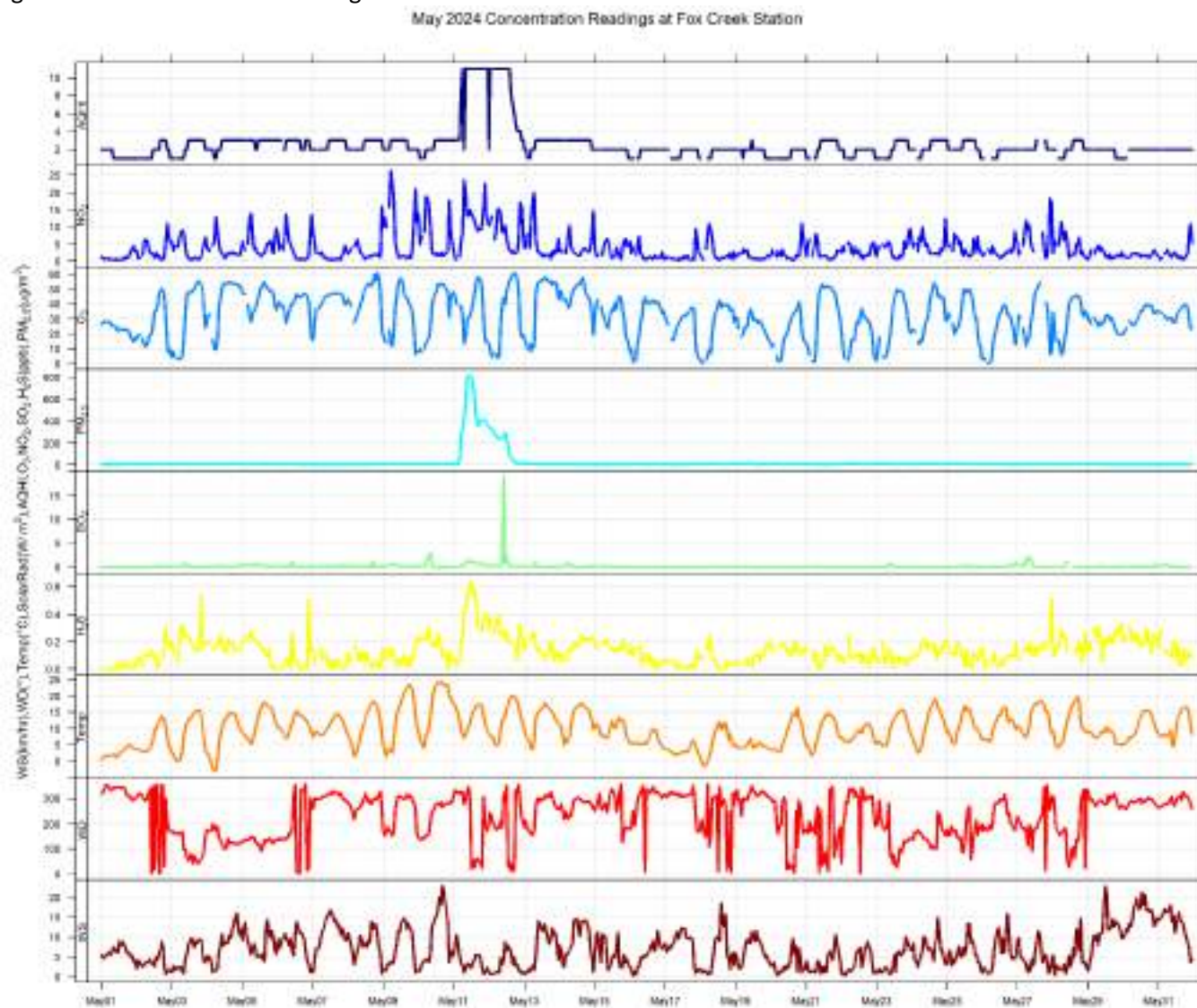


May 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Valleyview

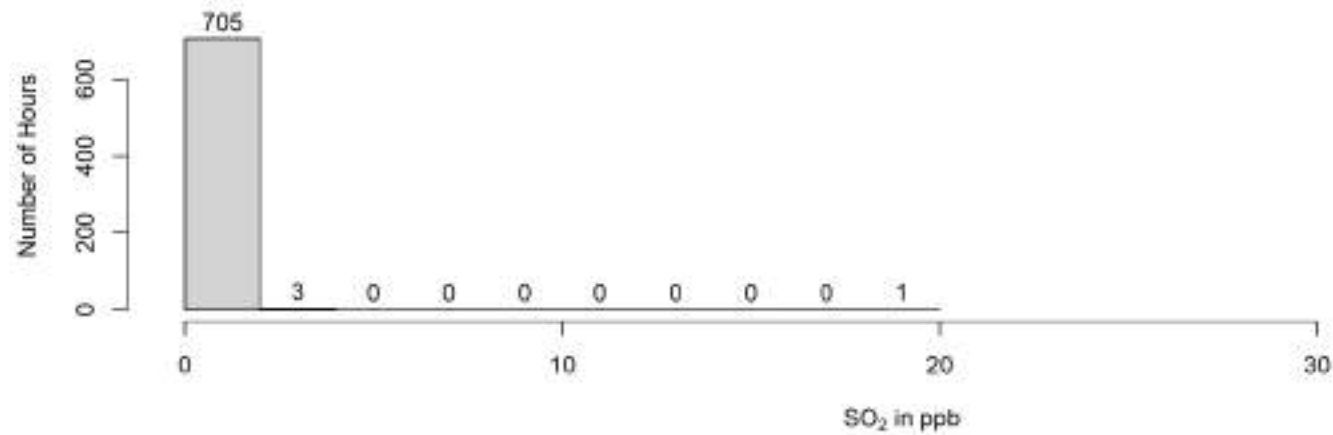
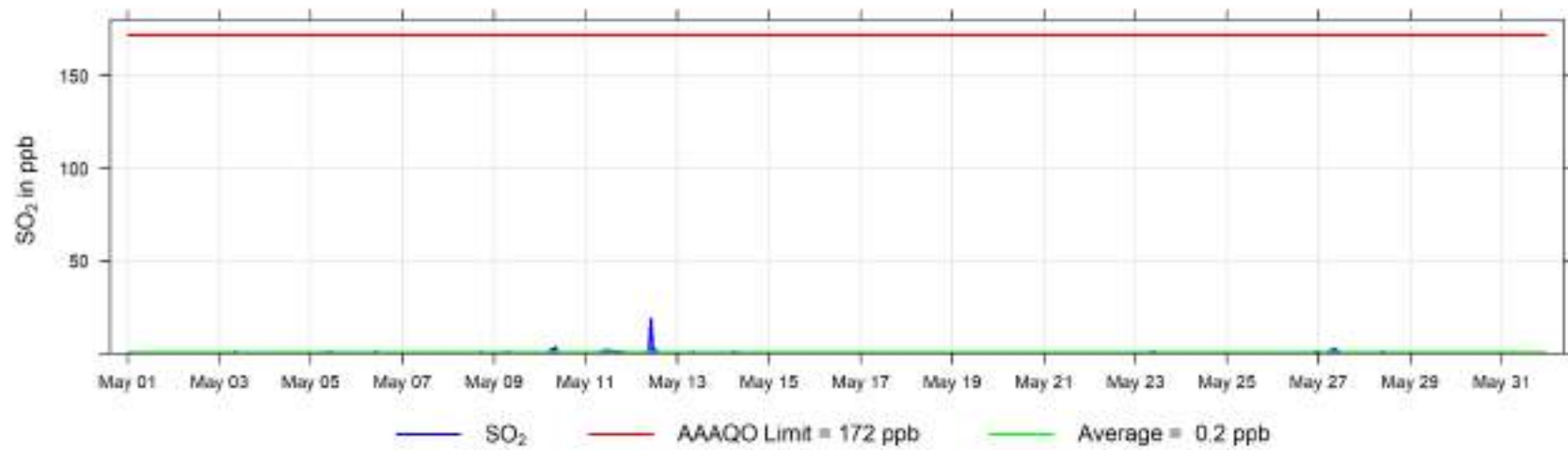


7 Fox Creek Charts

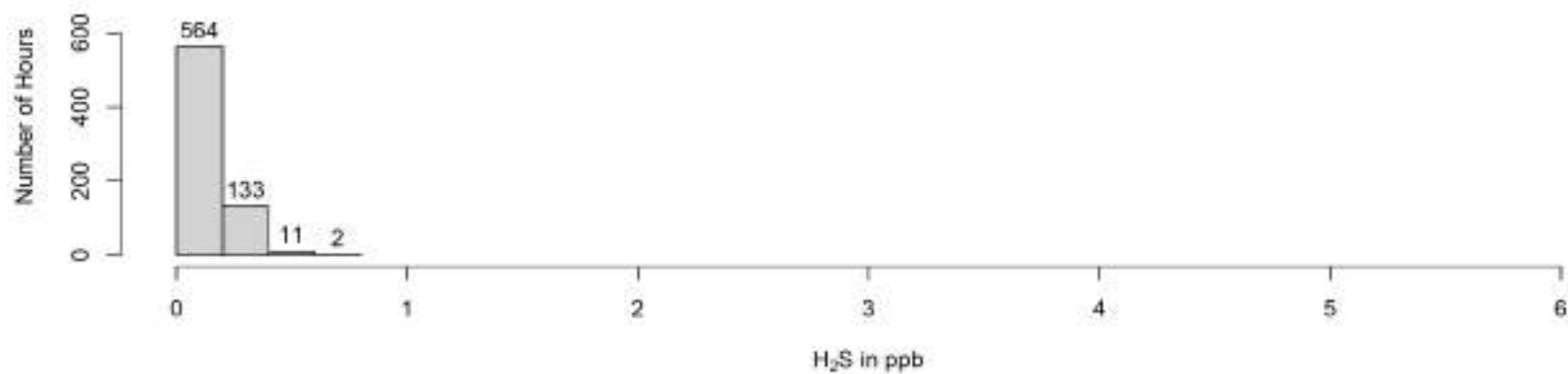
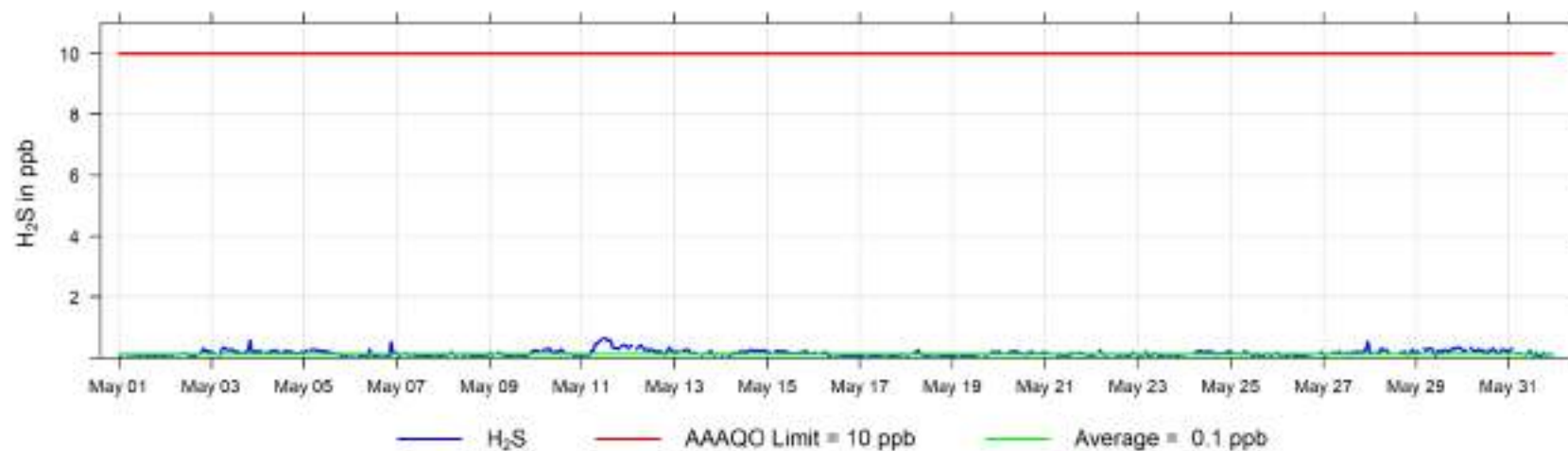
The following pages include the charts and histograms for Fox Creek Station



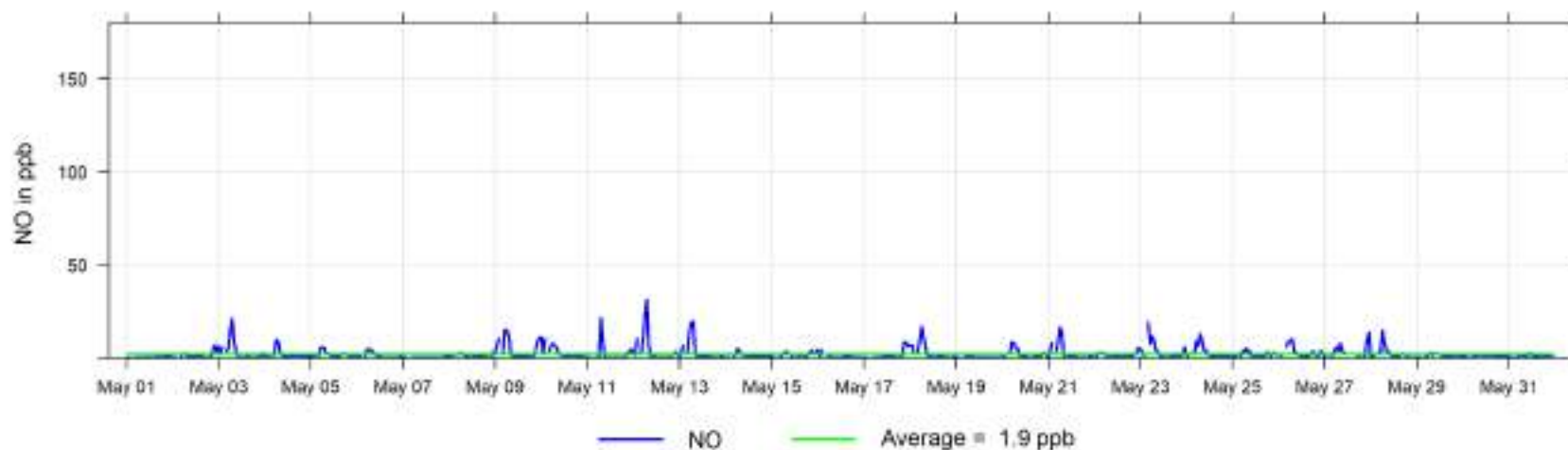
May 2024 Hourly Concentration Readings of SO₂ (in ppb) at Fox Creek



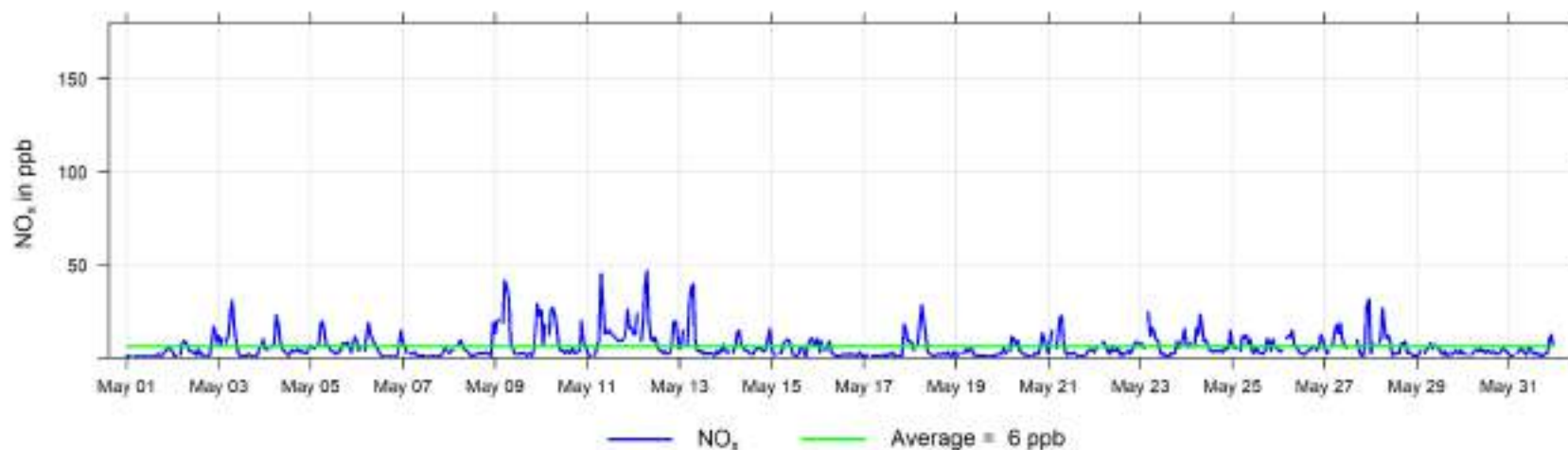
May 2024 Hourly Concentration Readings of H₂S (in ppb) at Fox Creek



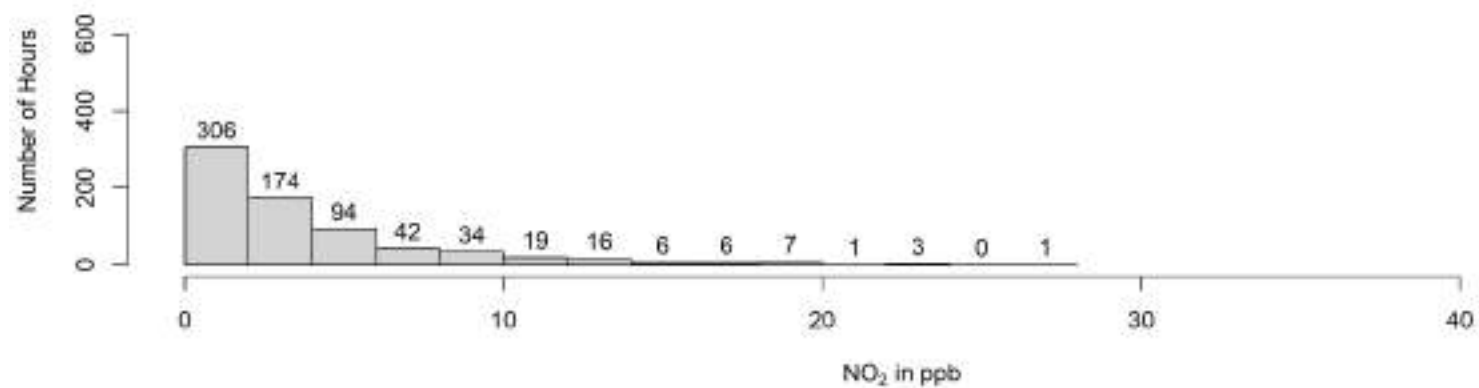
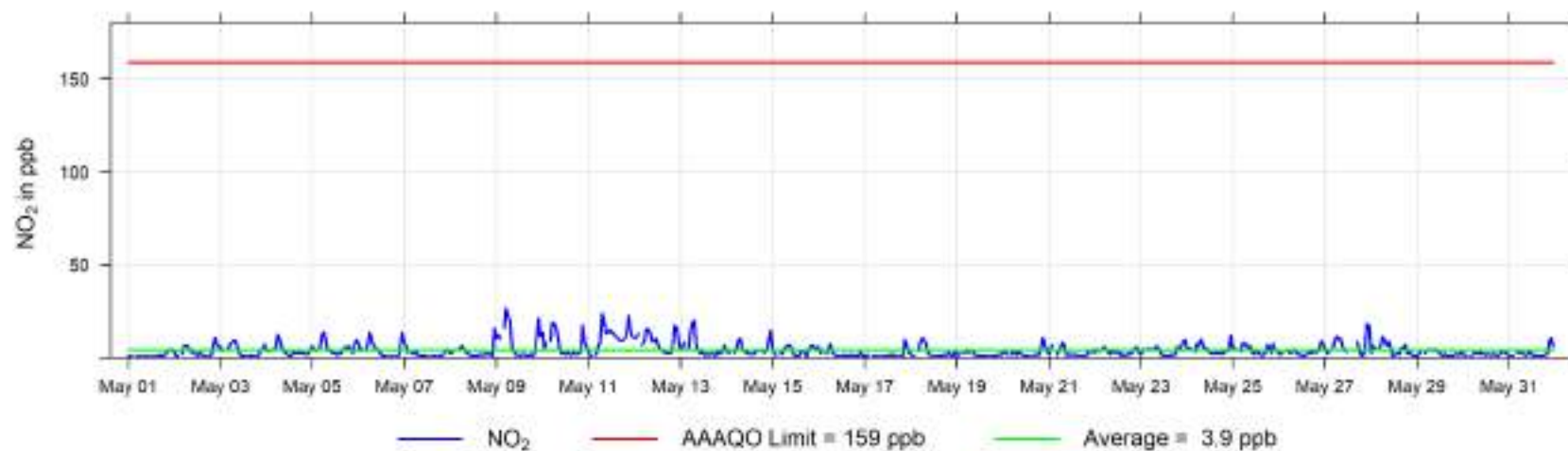
May 2024 Hourly Concentration Readings of NO (in ppb) at Fox Creek



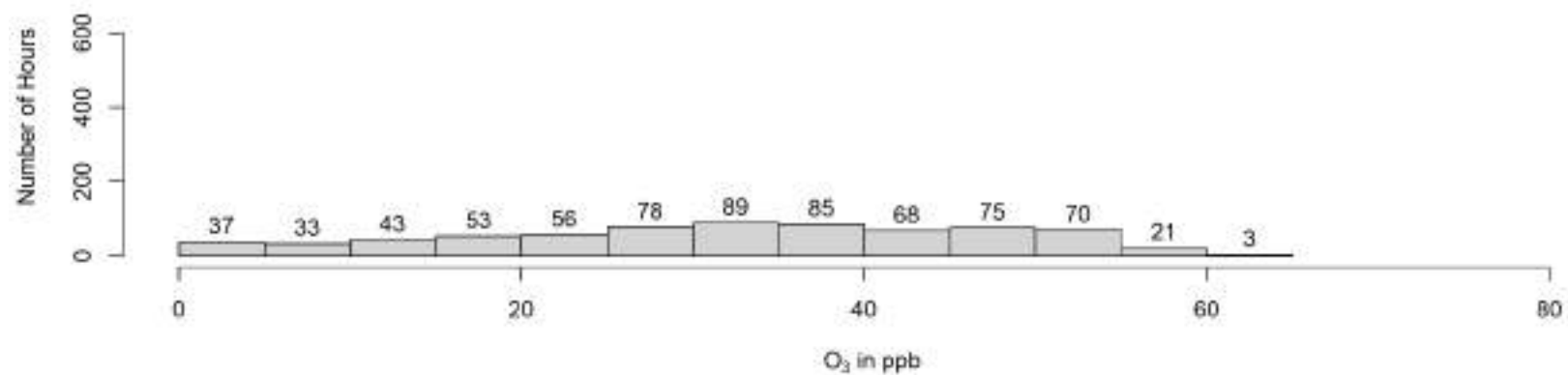
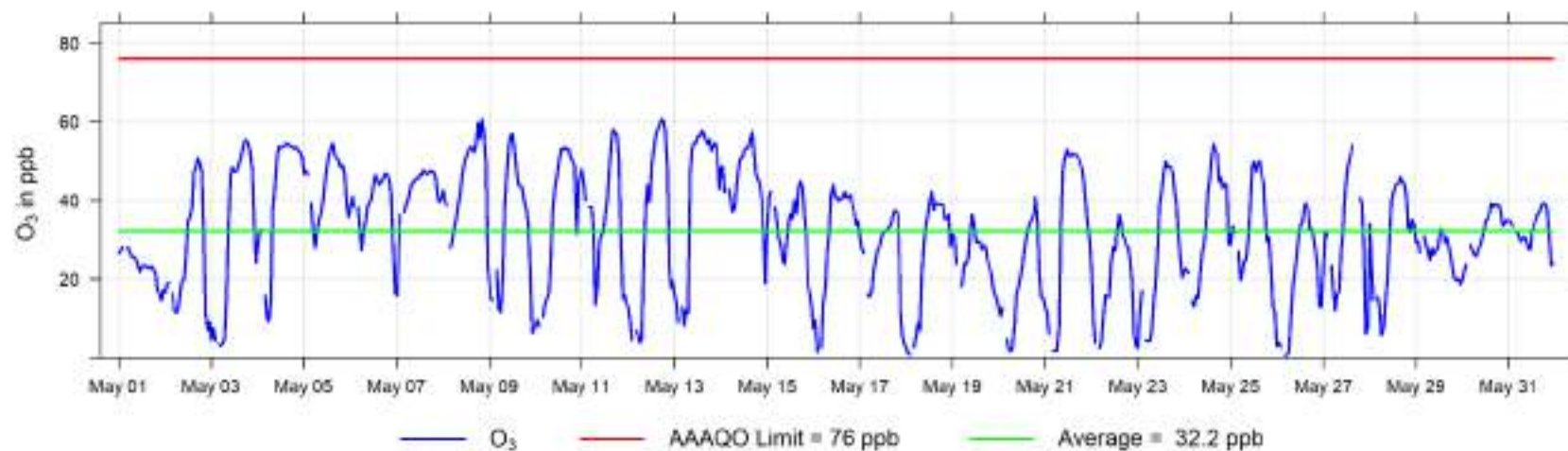
May 2024 Hourly Concentration Readings of NO_x (in ppb) at Fox Creek



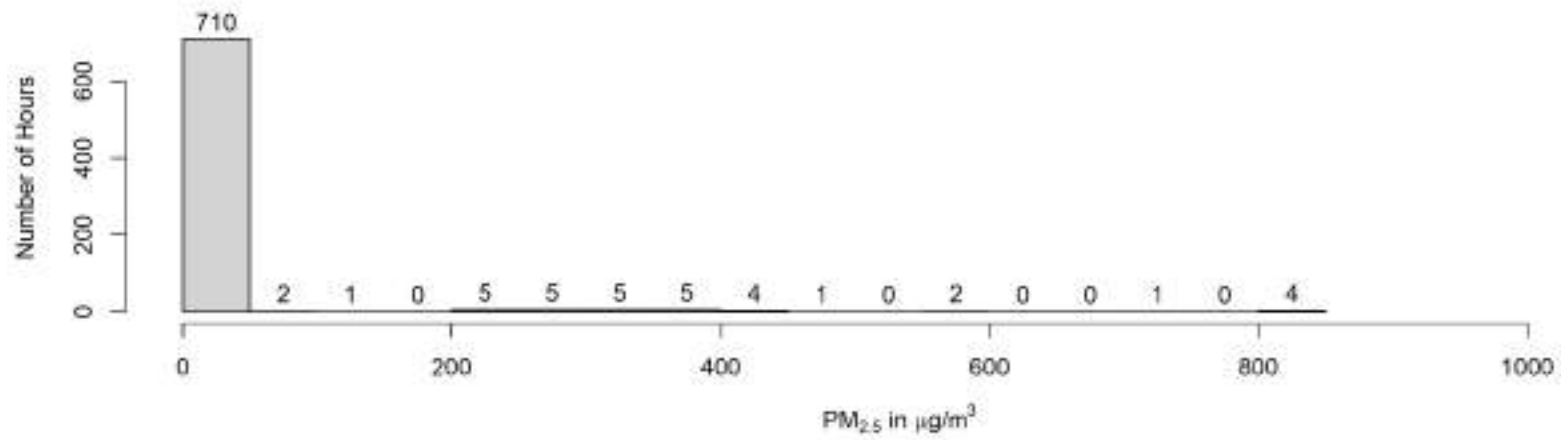
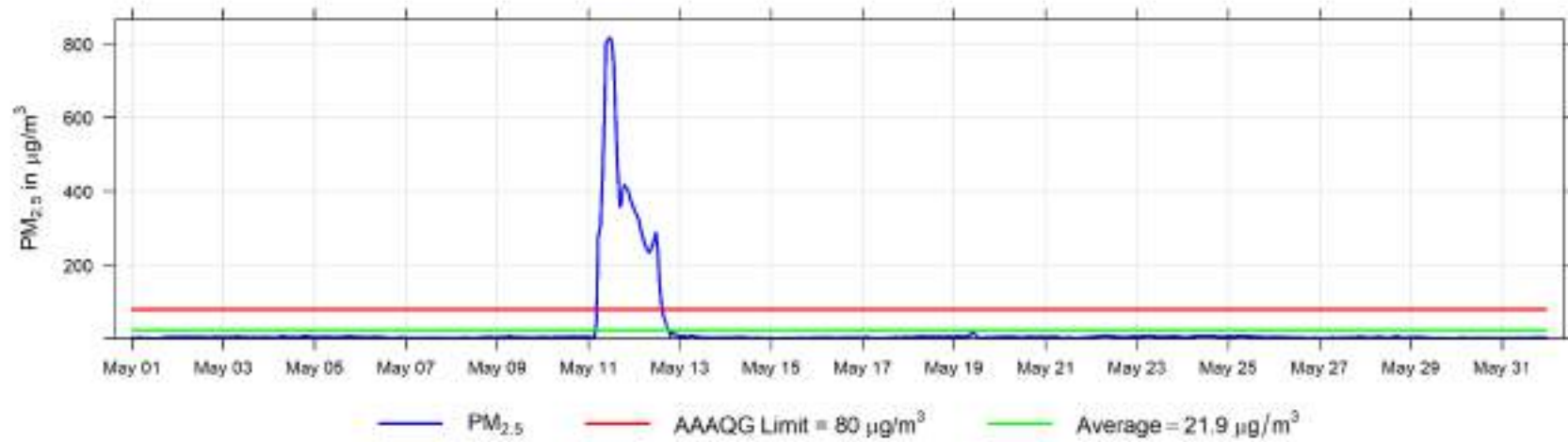
May 2024 Hourly Concentration Readings of NO₂ (in ppb) at Fox Creek



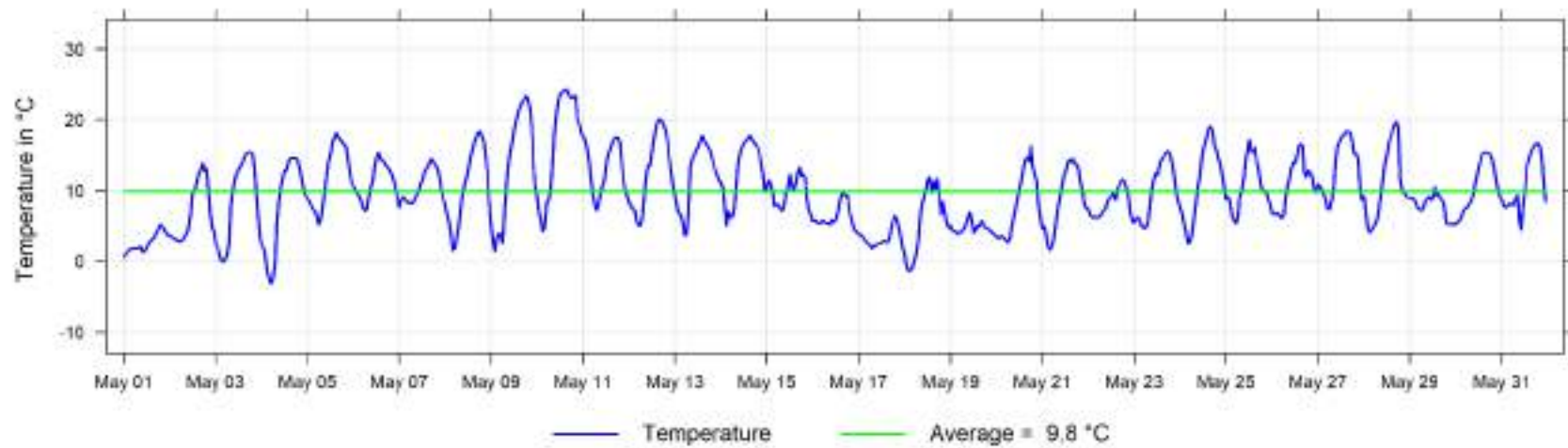
May 2024 Hourly Concentration Readings of O₃ (in ppb) at Fox Creek



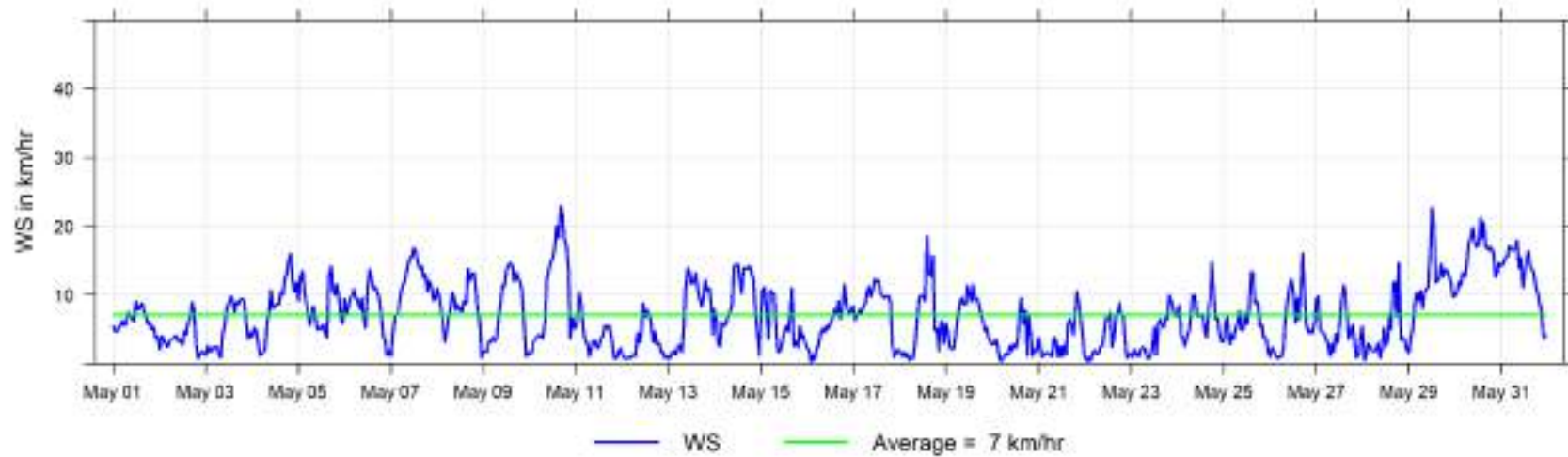
May 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Fox Creek



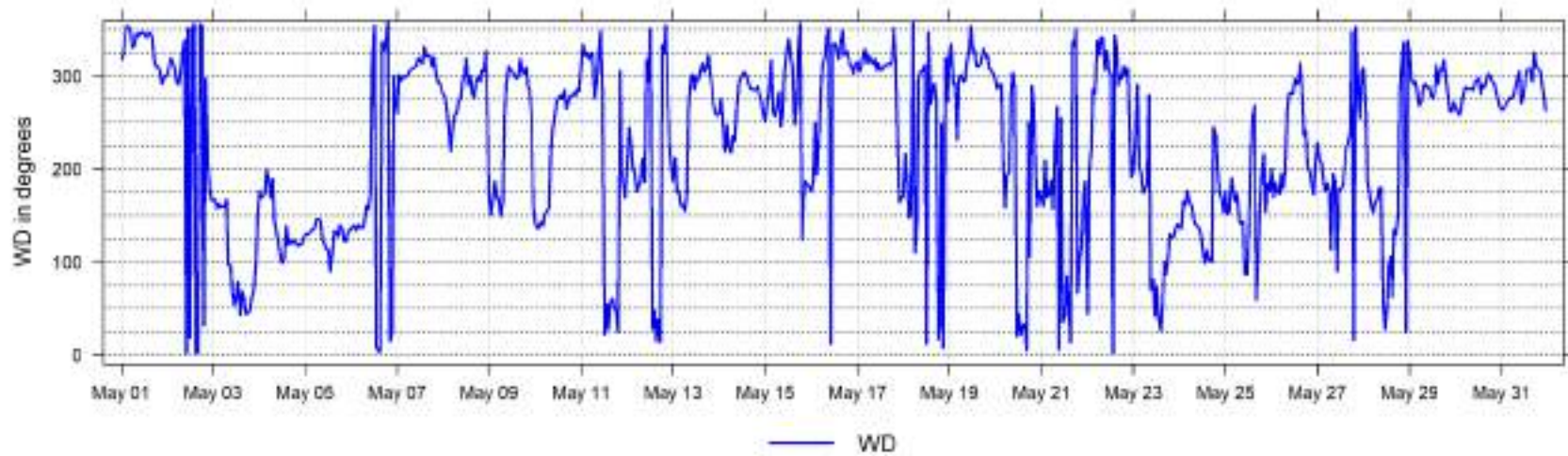
May 2024 Hourly Temperature Readings (in °C) at Fox Creek



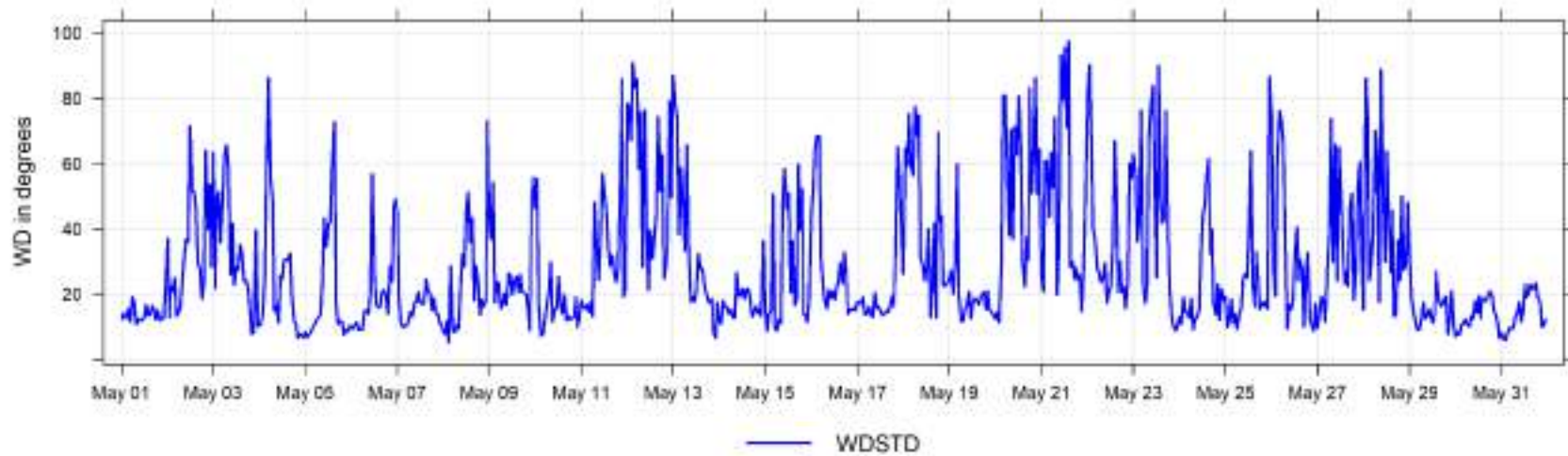
May 2024 Hourly Readings of Wind Speed (in km/hr) at Fox Creek



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



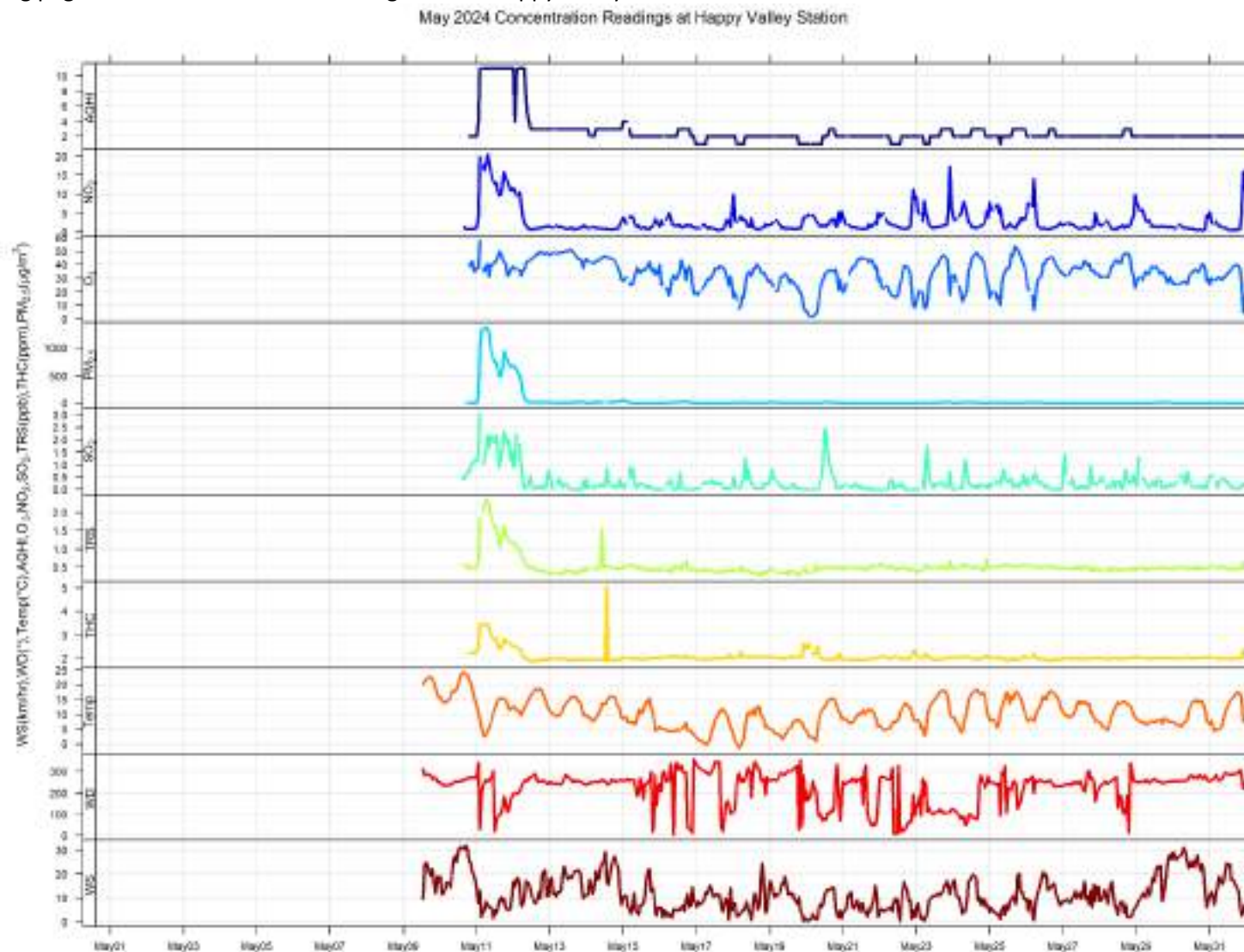
May 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Fox Creek



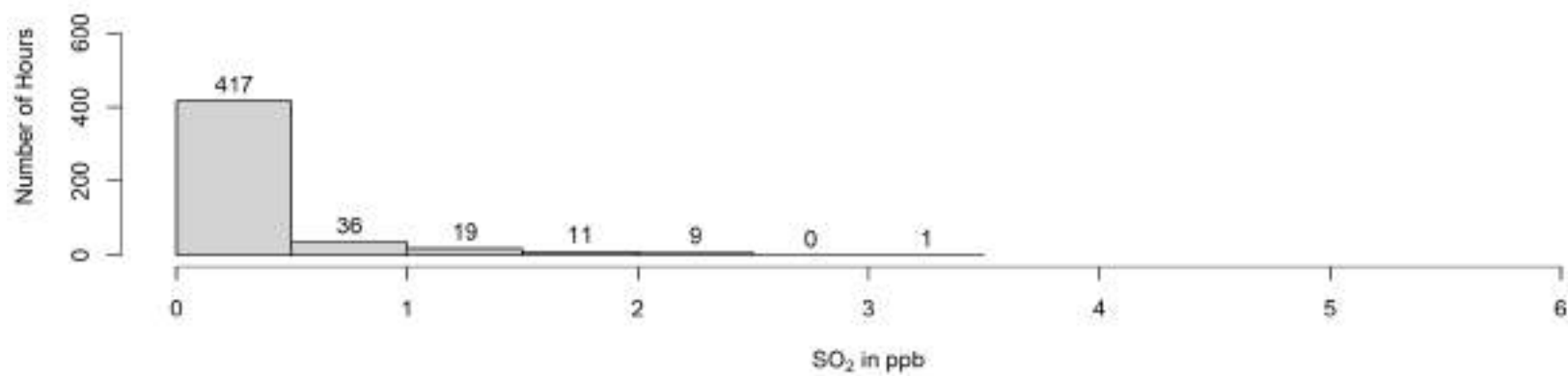
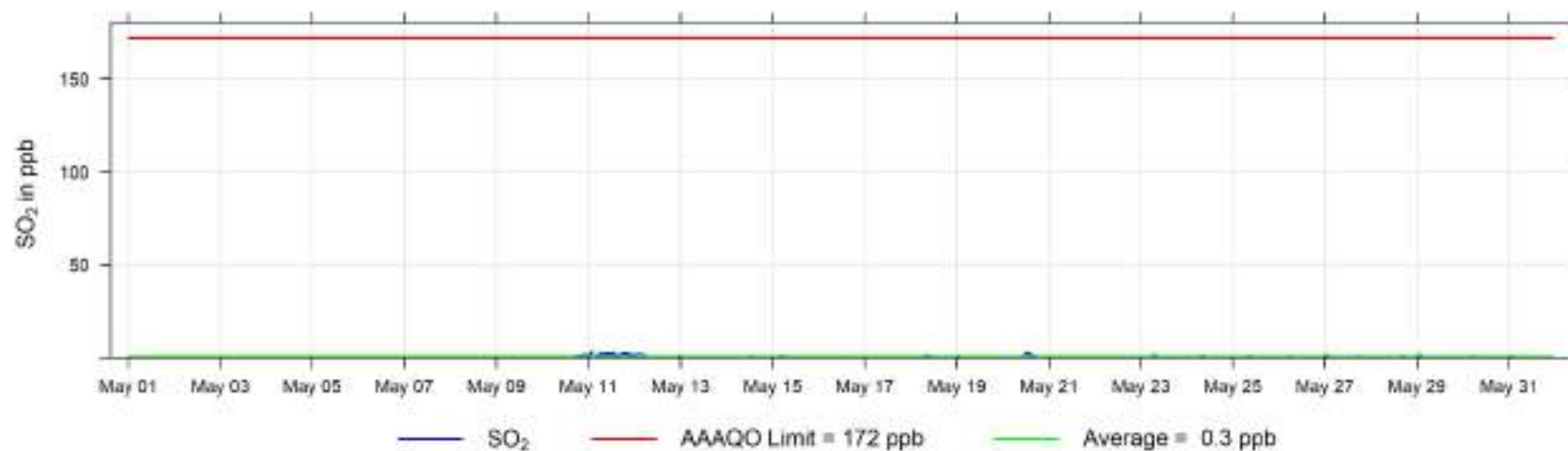


8 Happy Valley (Portable) Charts

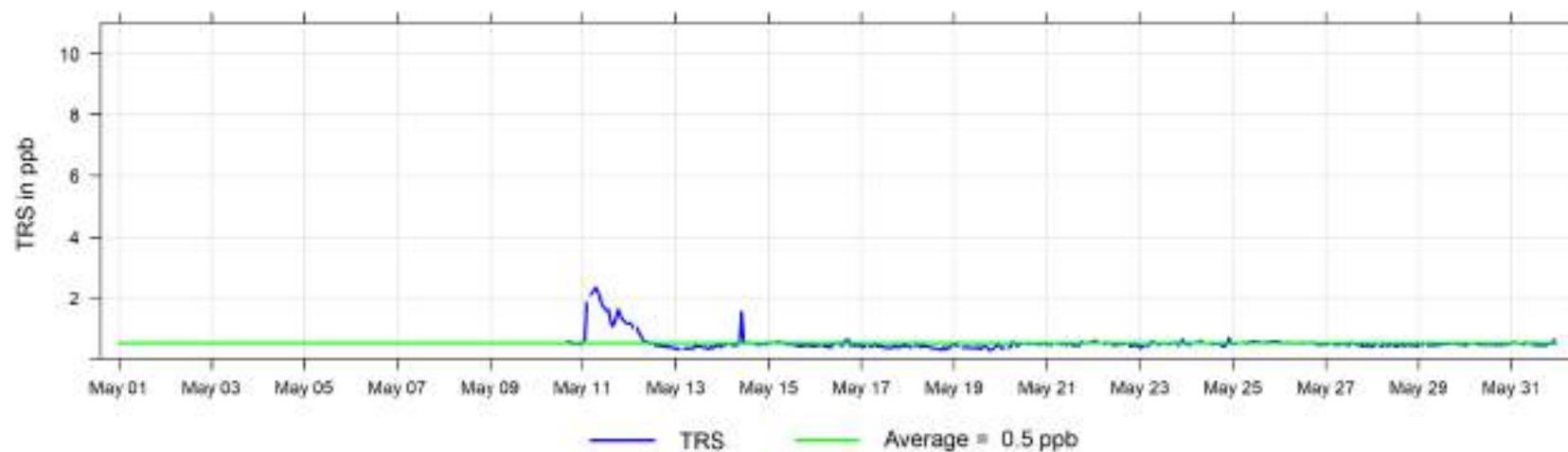
The following pages include the charts and histograms for Happy Valley Portable Station



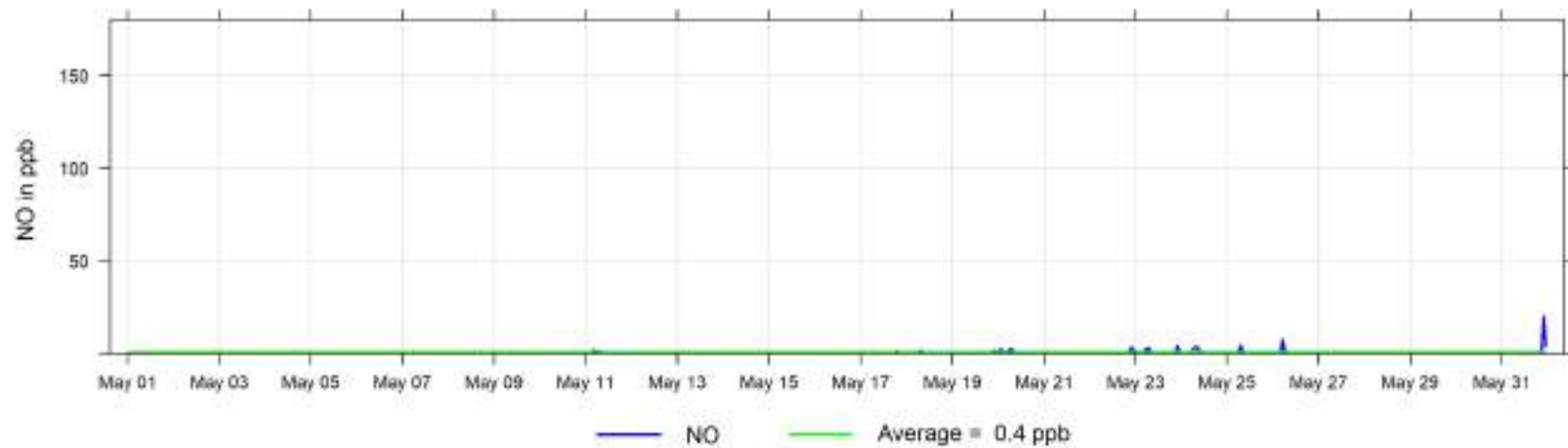
May 2024 Hourly Concentration Readings of SO₂ (in ppb) at Happy Valley



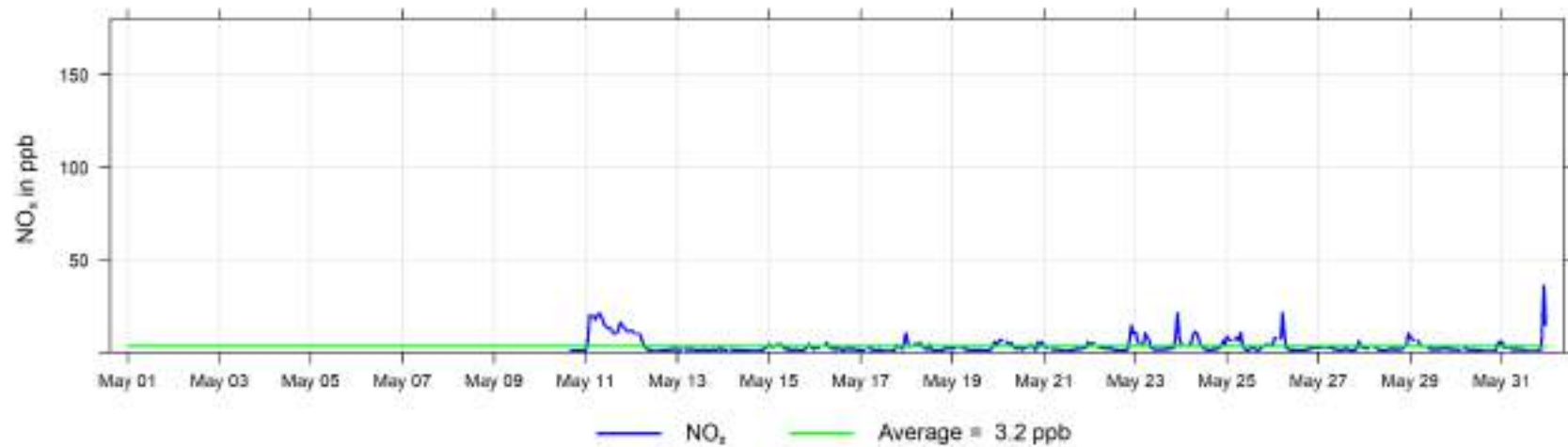
May 2024 Hourly Concentration Readings of TRS (in ppb) at Happy Valley



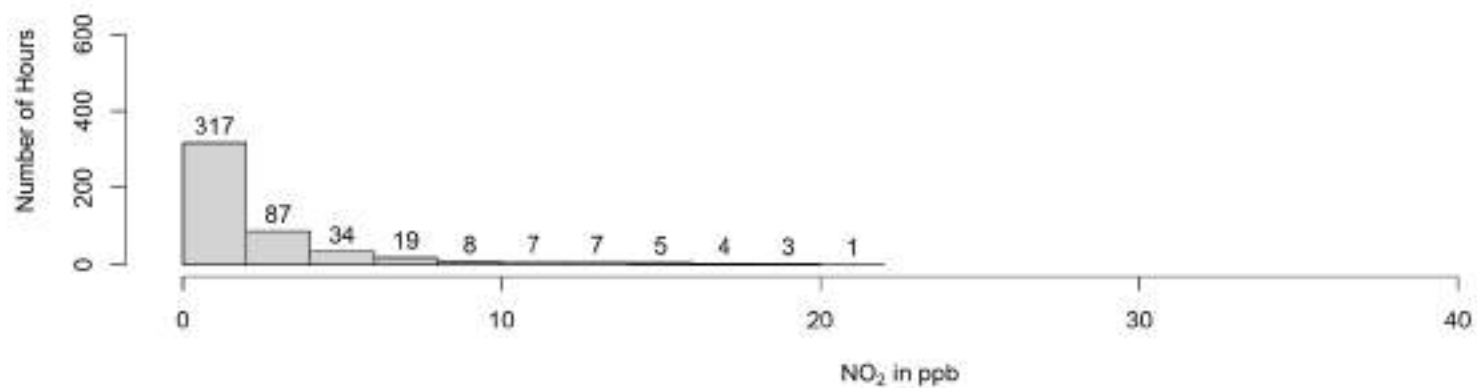
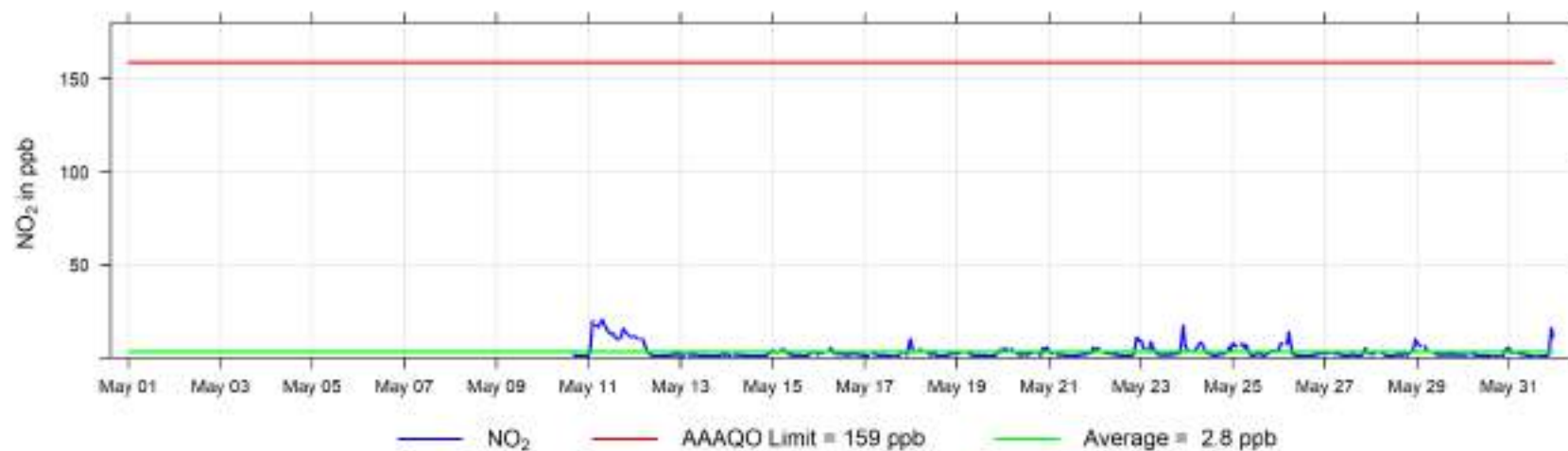
May 2024 Hourly Concentration Readings of NO (in ppb) at Happy Valley



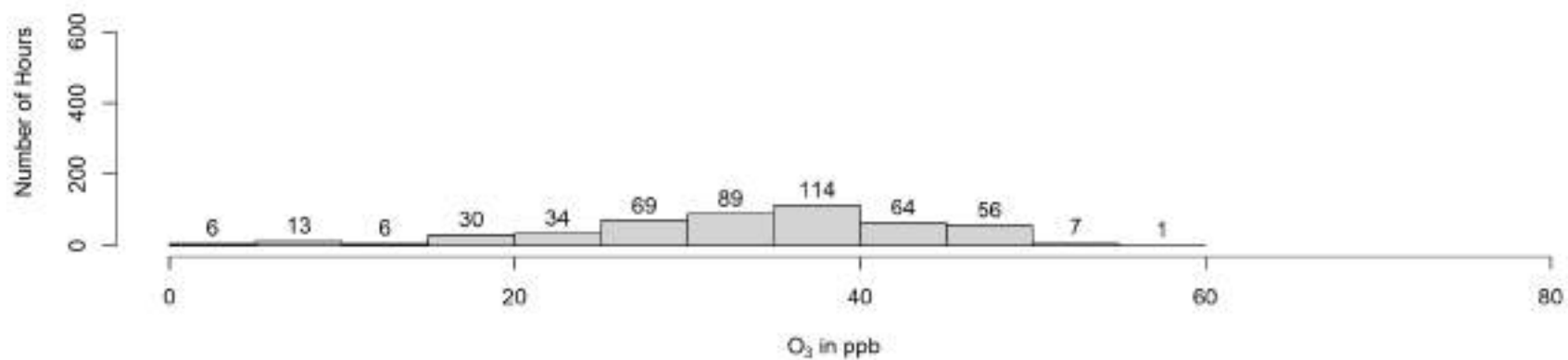
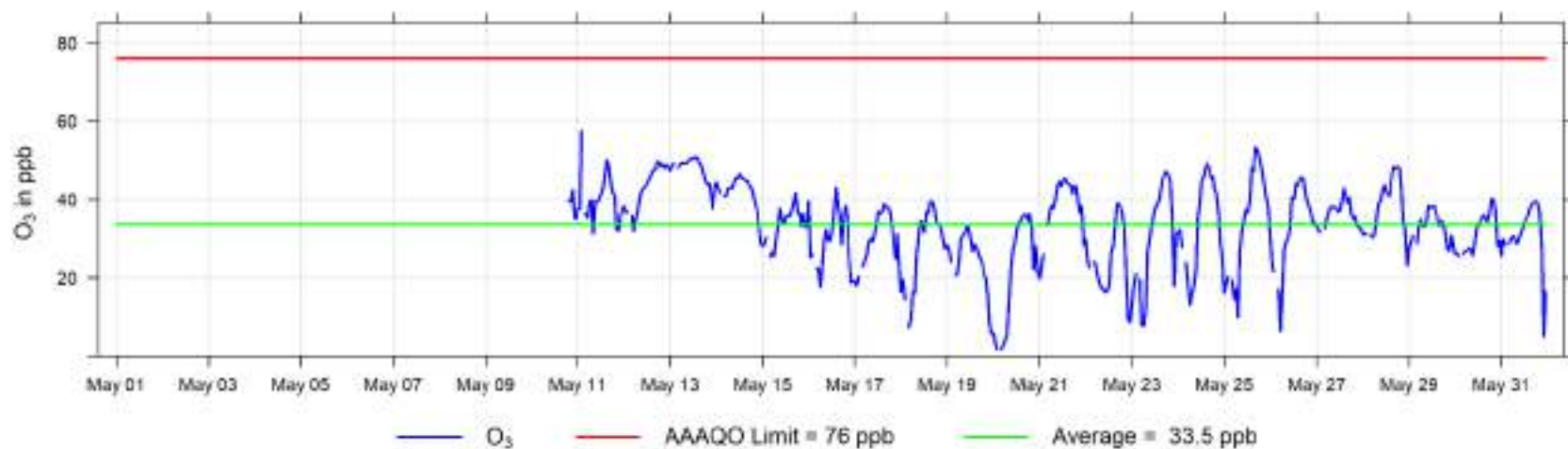
May 2024 Hourly Concentration Readings of NO_x (in ppb) at Happy Valley



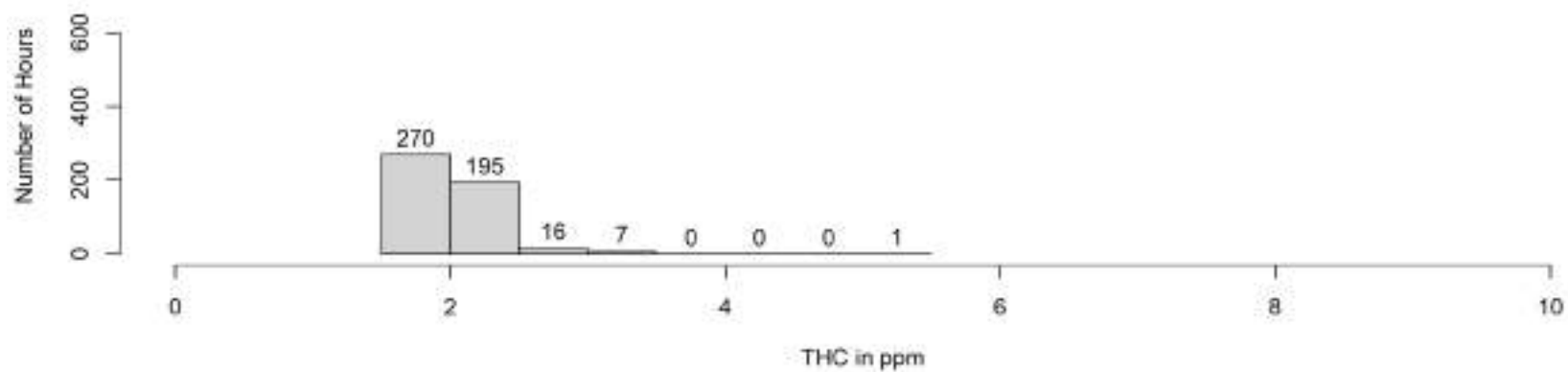
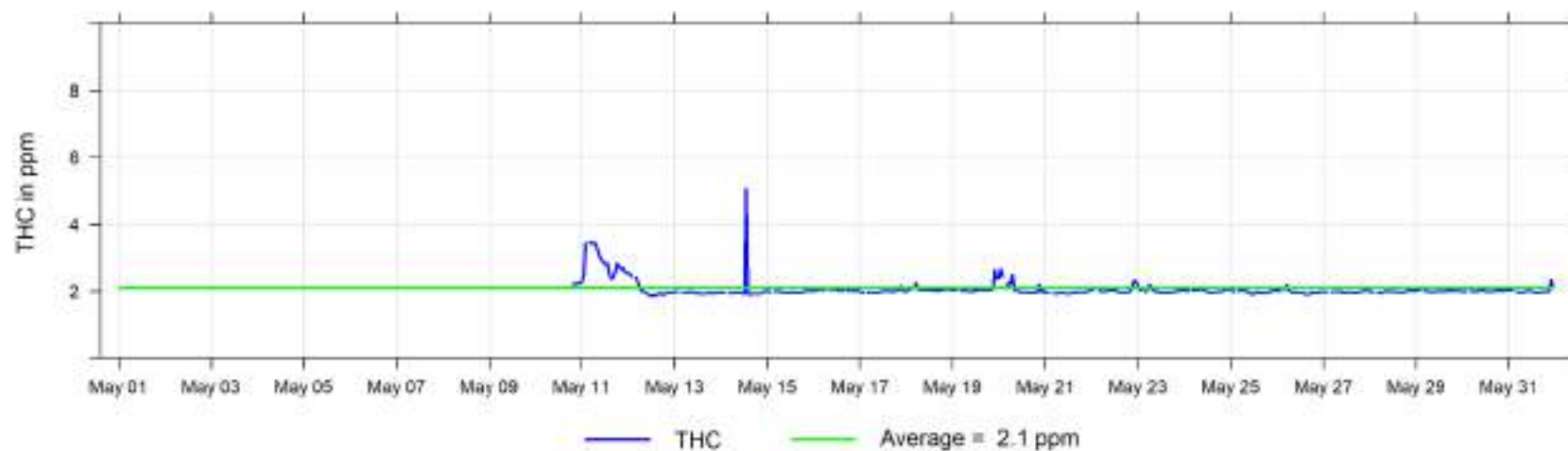
May 2024 Hourly Concentration Readings of NO₂ (in ppb) at Happy Valley



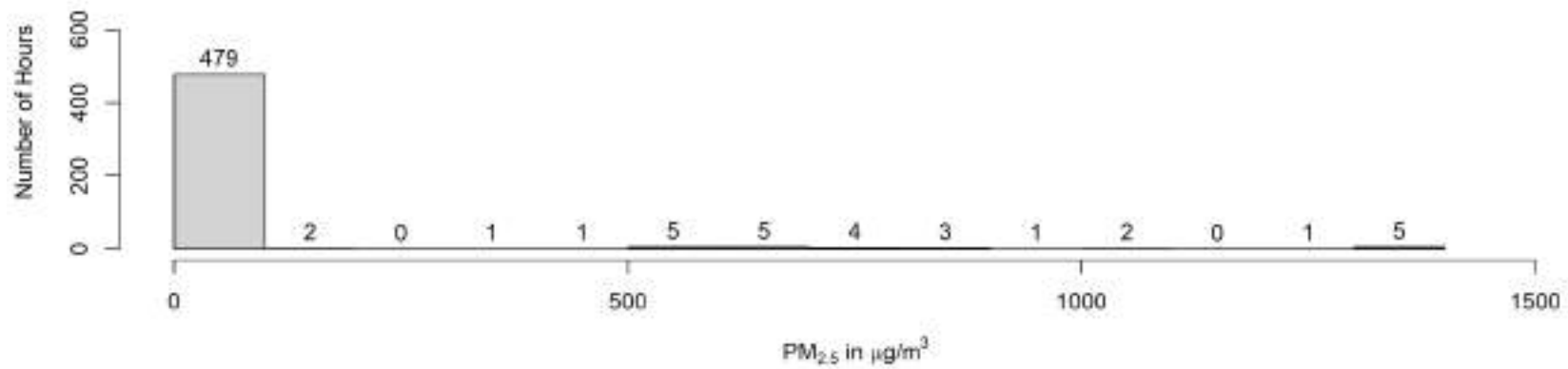
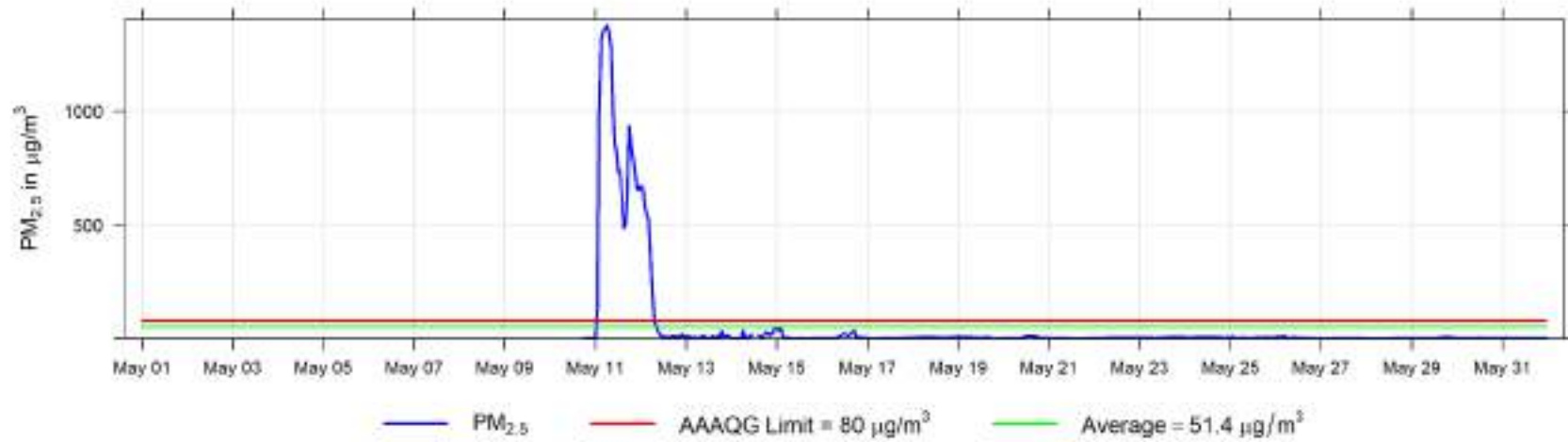
May 2024 Hourly Concentration Readings of O₃ (in ppb) at Happy Valley



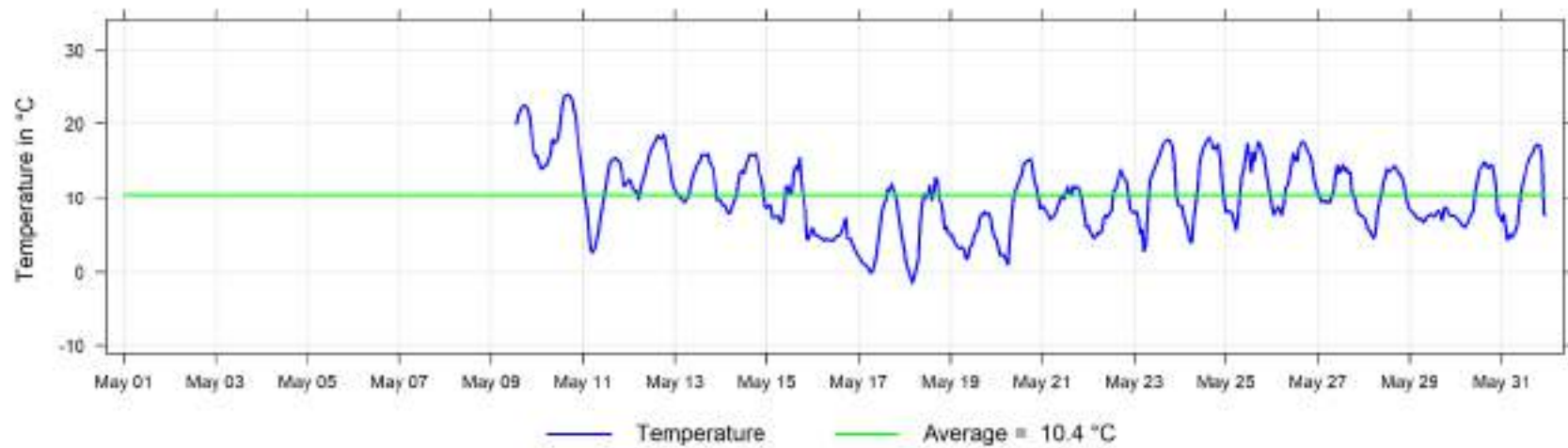
May 2024 Hourly Concentration Readings of THC (in ppm) at Happy Valley



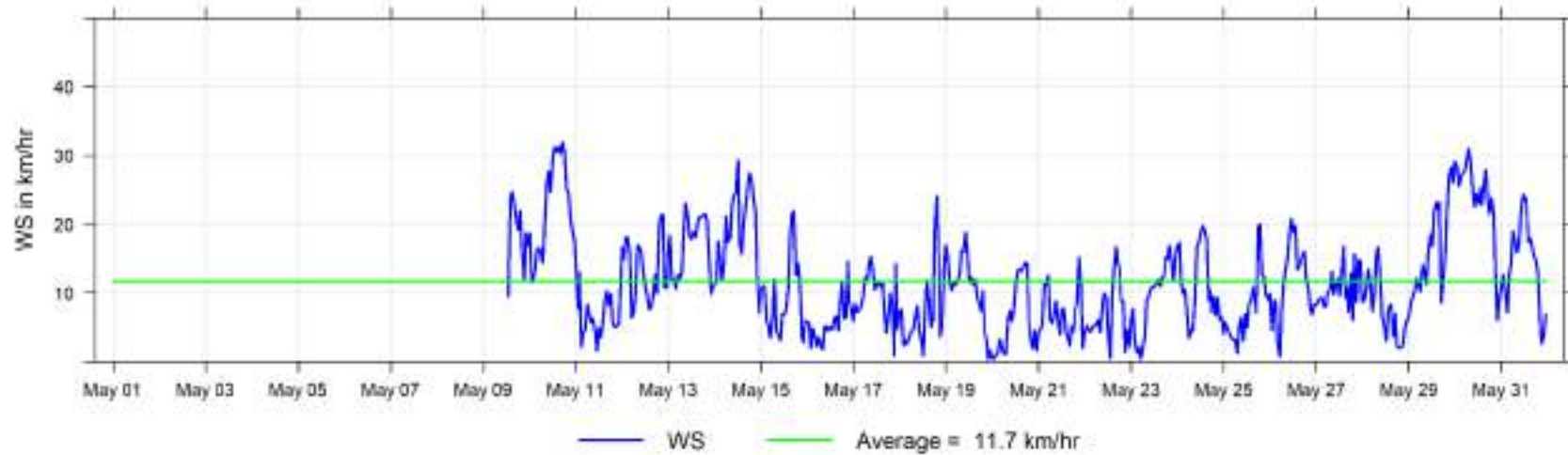
May 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Happy Valley



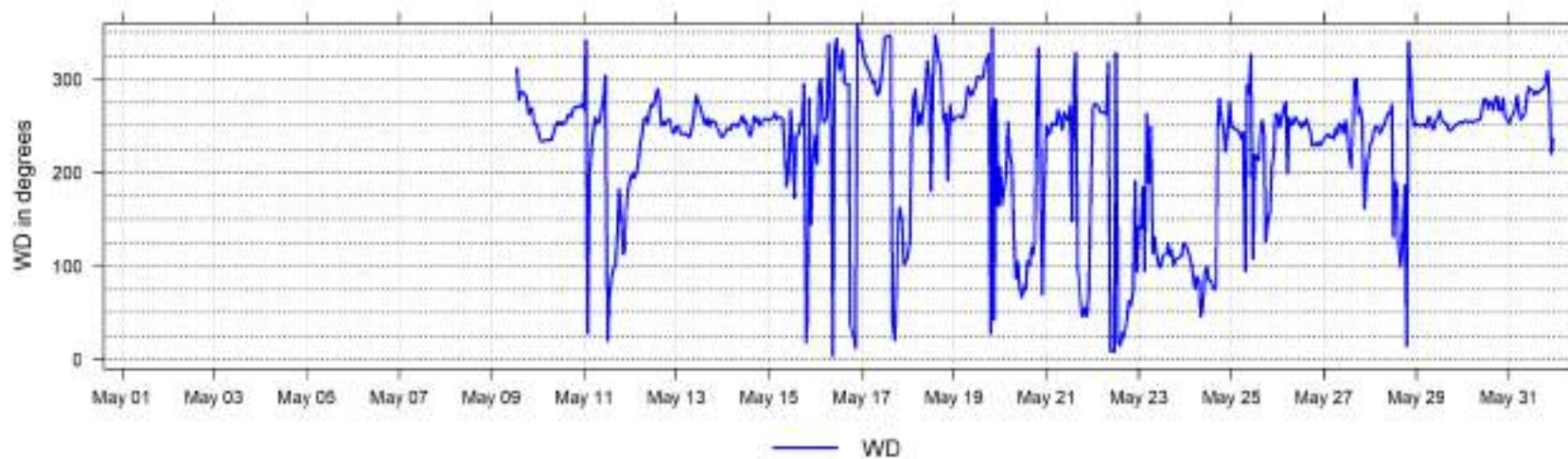
May 2024 Hourly Temperature Readings (in °C) at Happy Valley



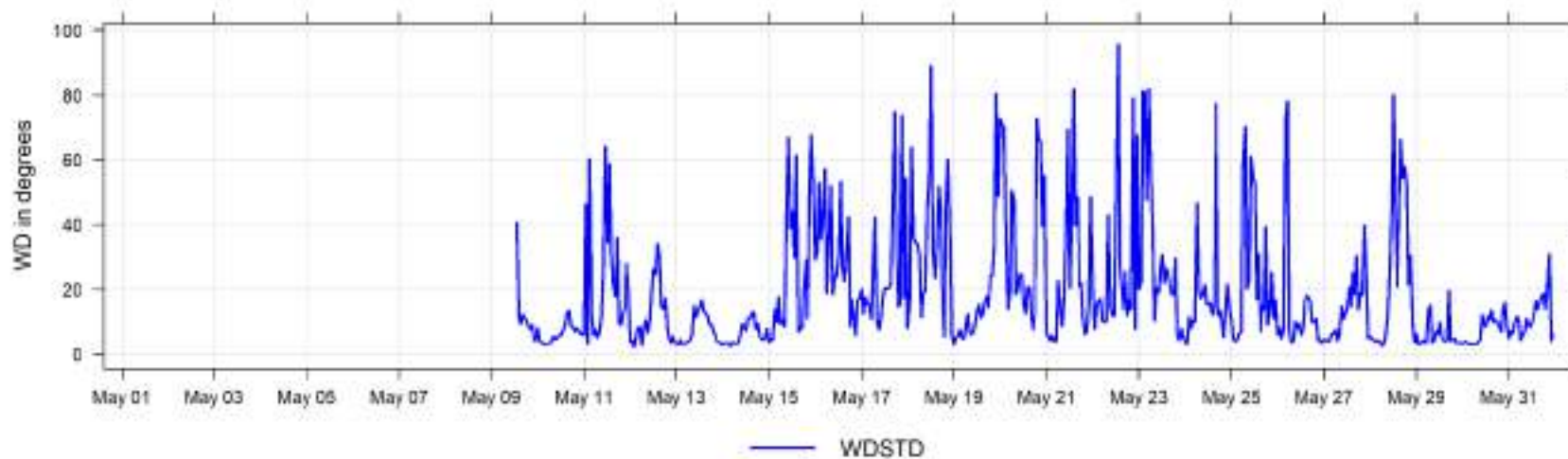
May 2024 Hourly Readings of Wind Speed (in km/hr) at Happy Valley

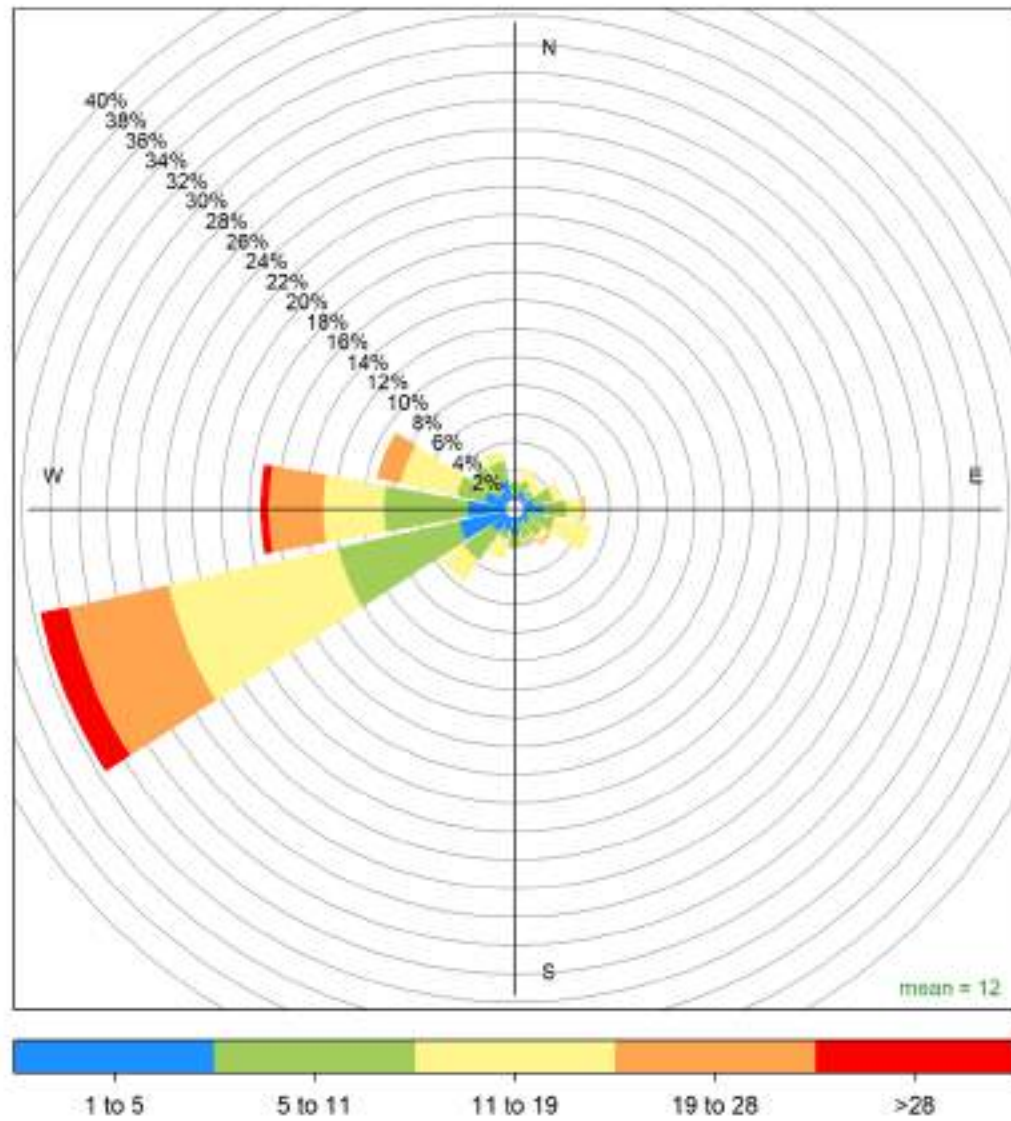


May 2024 Hourly Readings of Wind Direction (in degrees) at Happy Valley



May 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Happy Valley

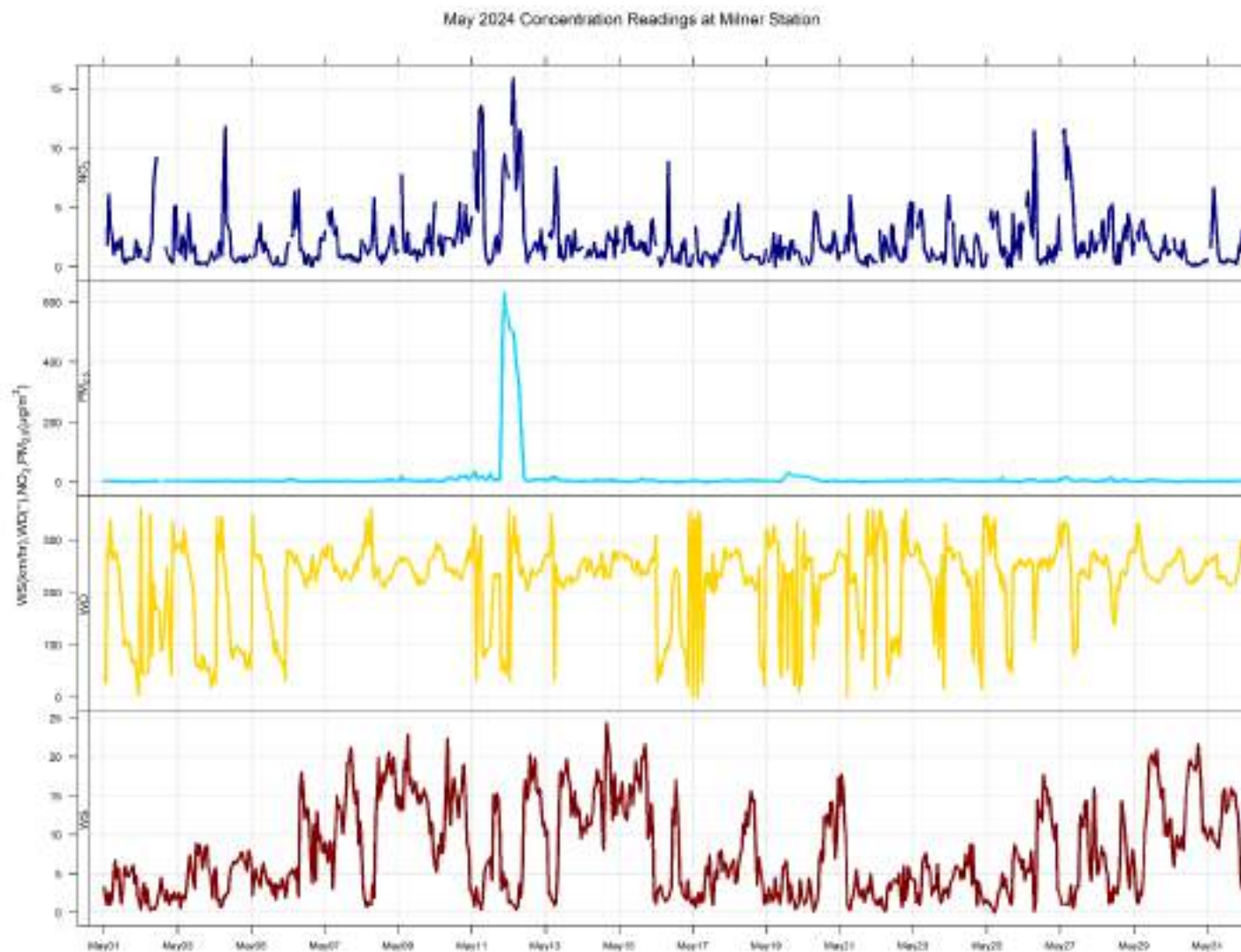




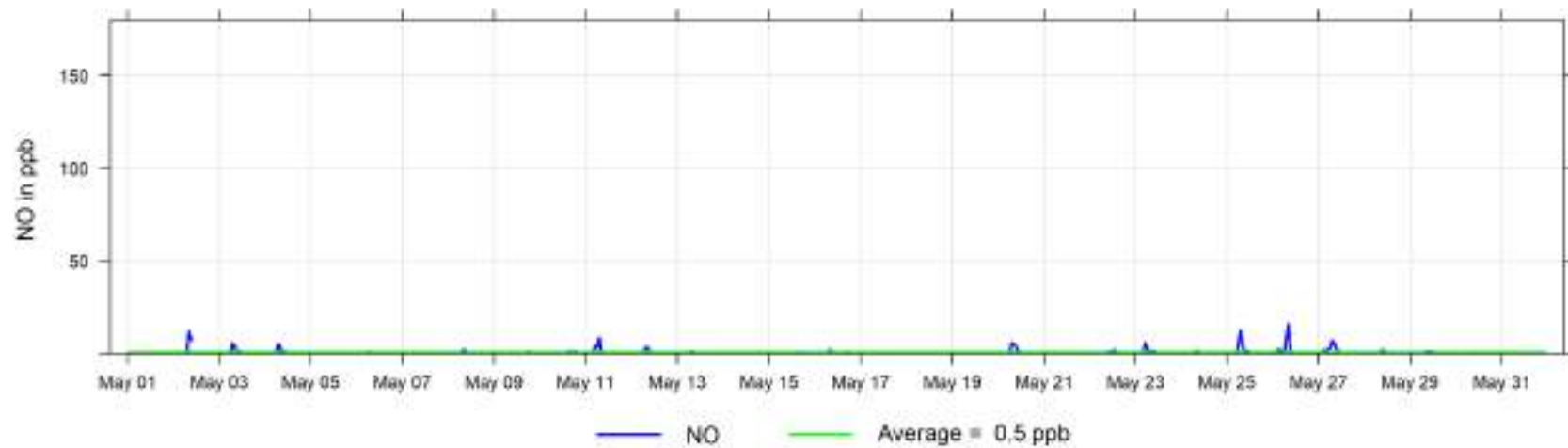
Happy Valley May 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 1.7 %

9 Milner Charts

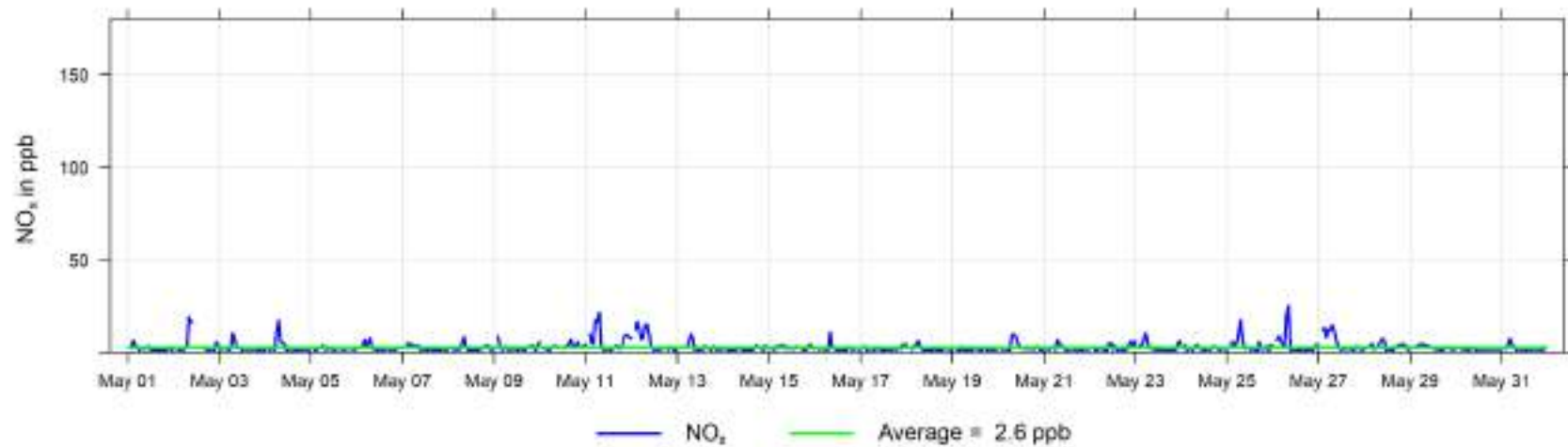
The following pages include the charts and histograms for Milner Station



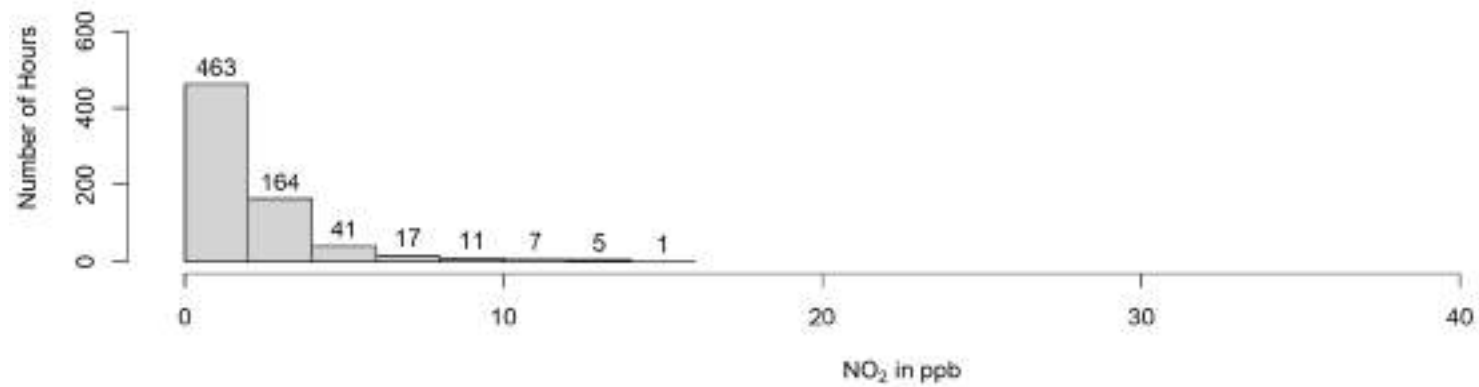
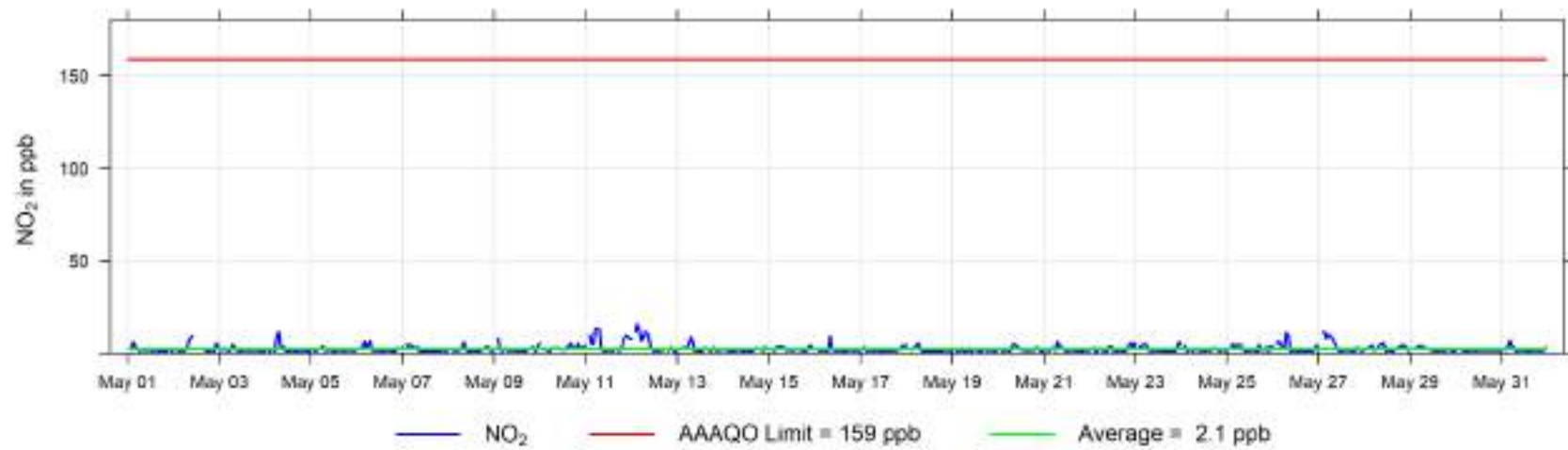
May 2024 Hourly Concentration Readings of NO (in ppb) at Milner



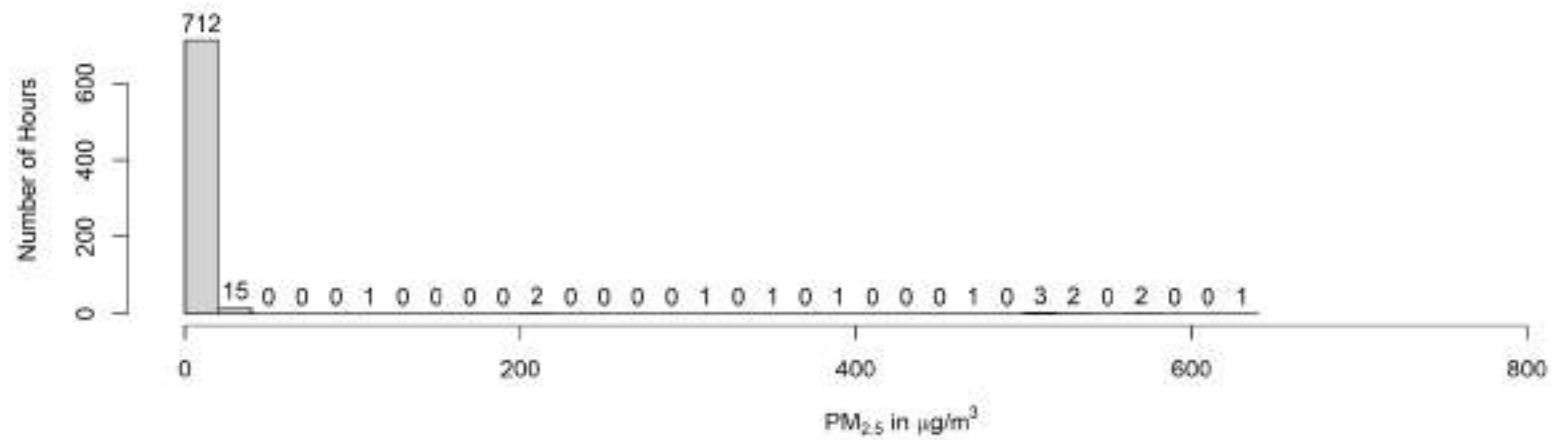
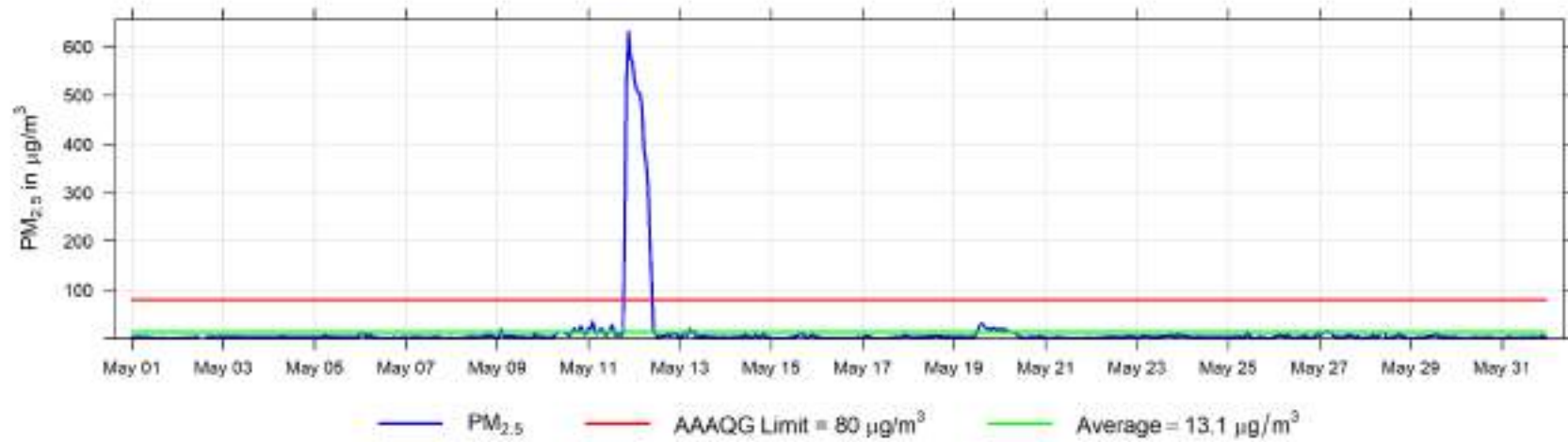
May 2024 Hourly Concentration Readings of NO_x (in ppb) at Milner



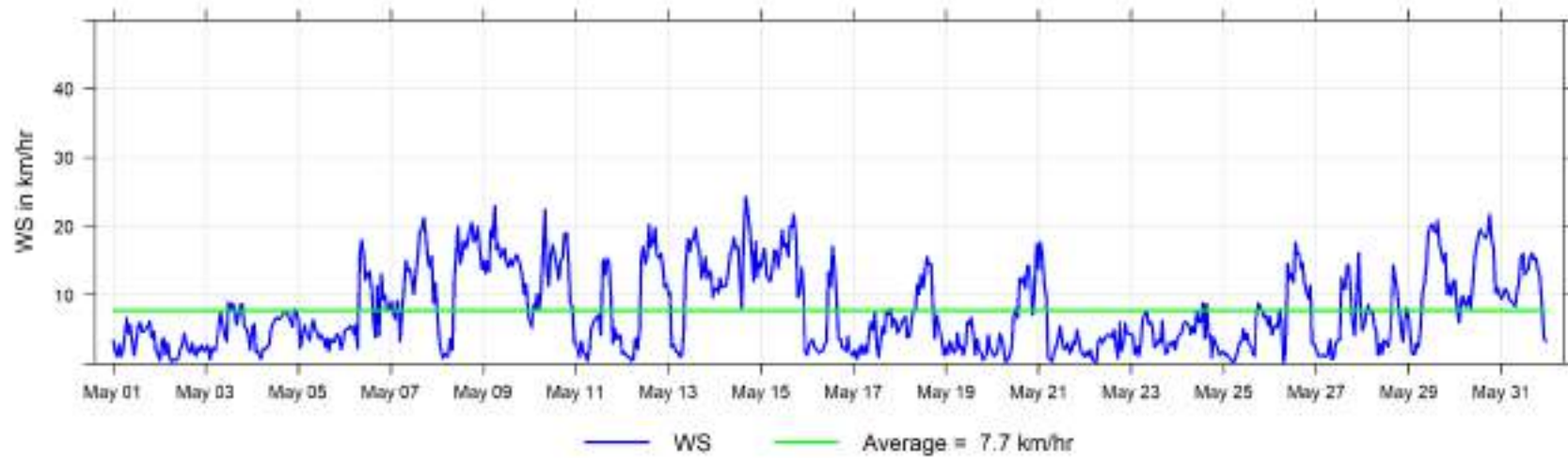
May 2024 Hourly Concentration Readings of NO₂ (in ppb) at Milner



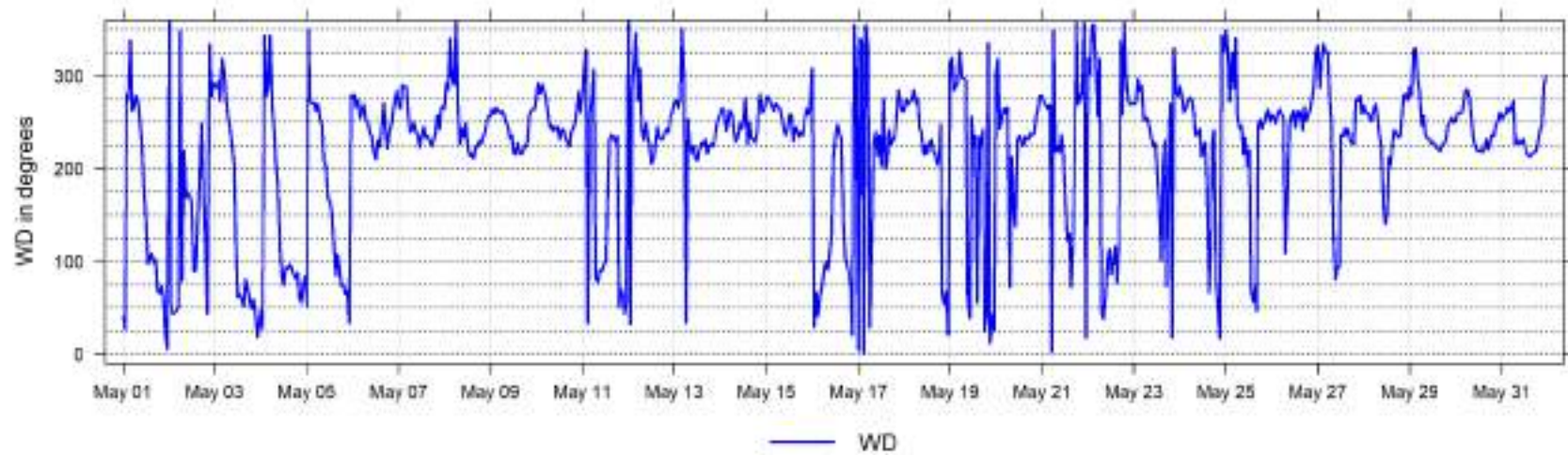
May 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Milner



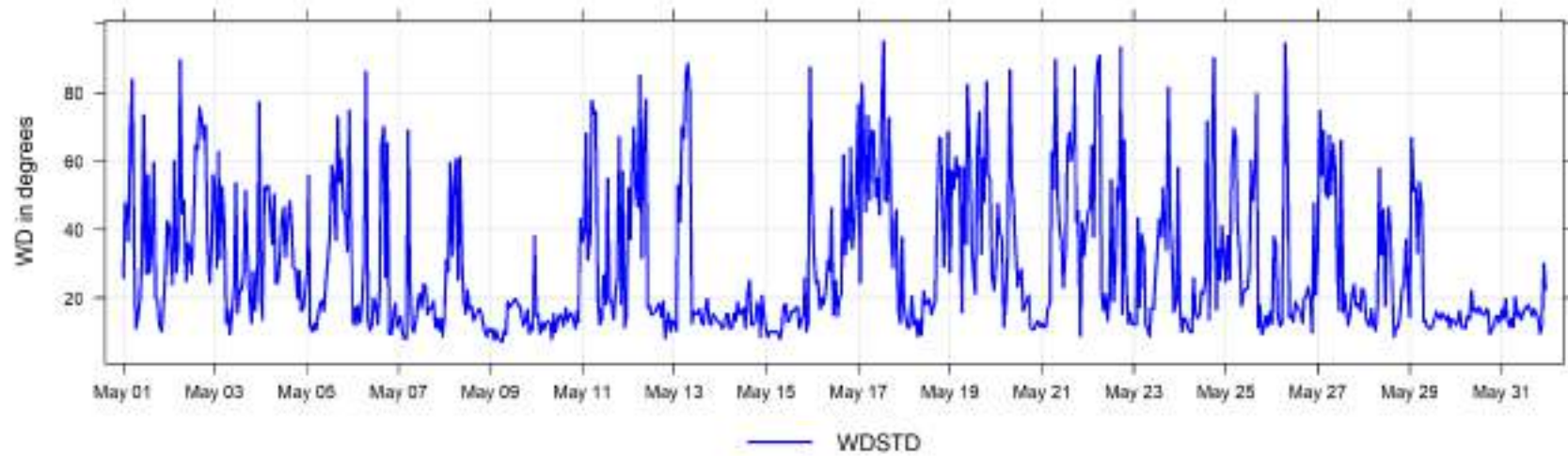
May 2024 Hourly Readings of Wind Speed (in km/hr) at Milner



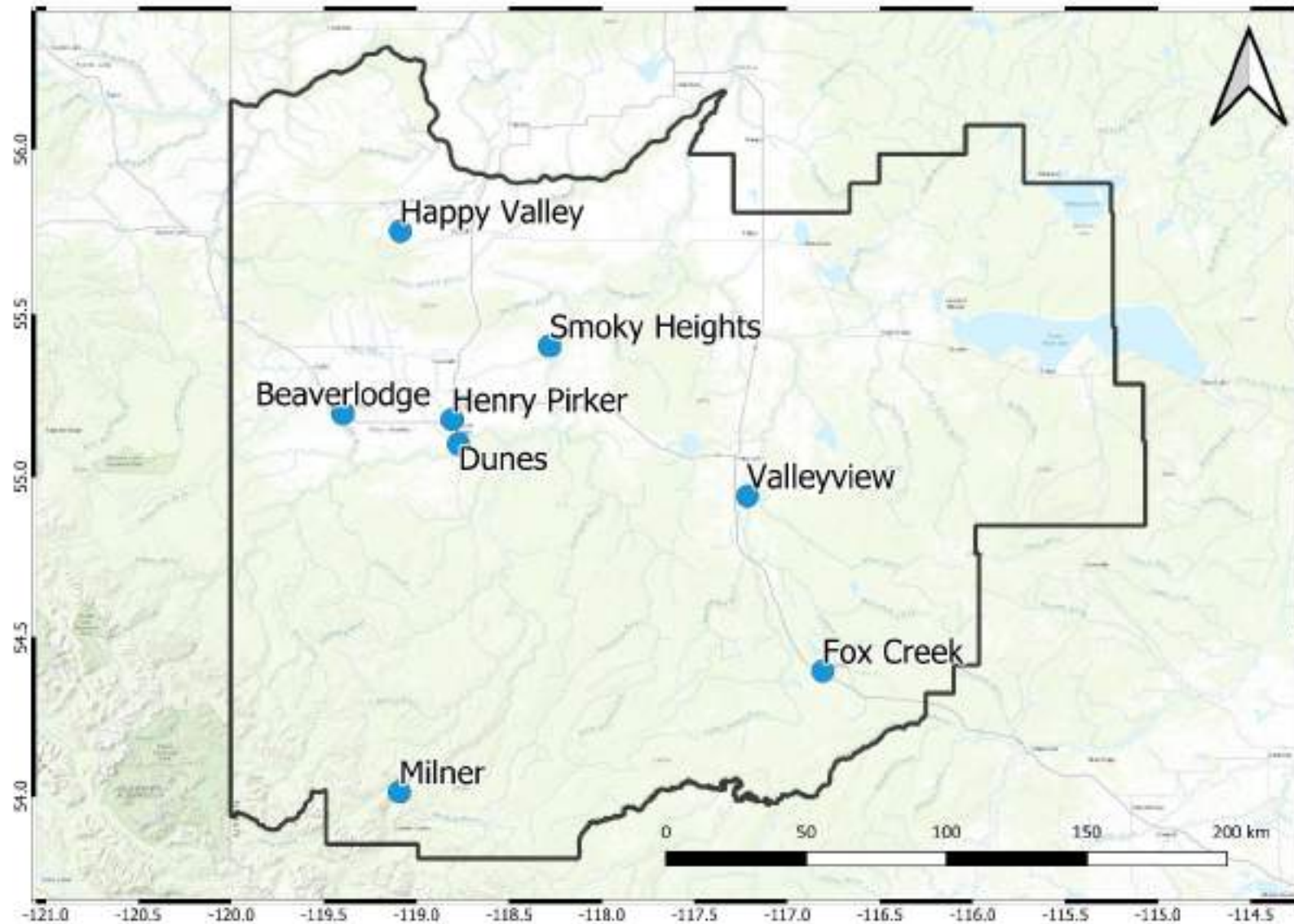
May 2024 Hourly Readings of Wind Direction (in degrees) at Milner



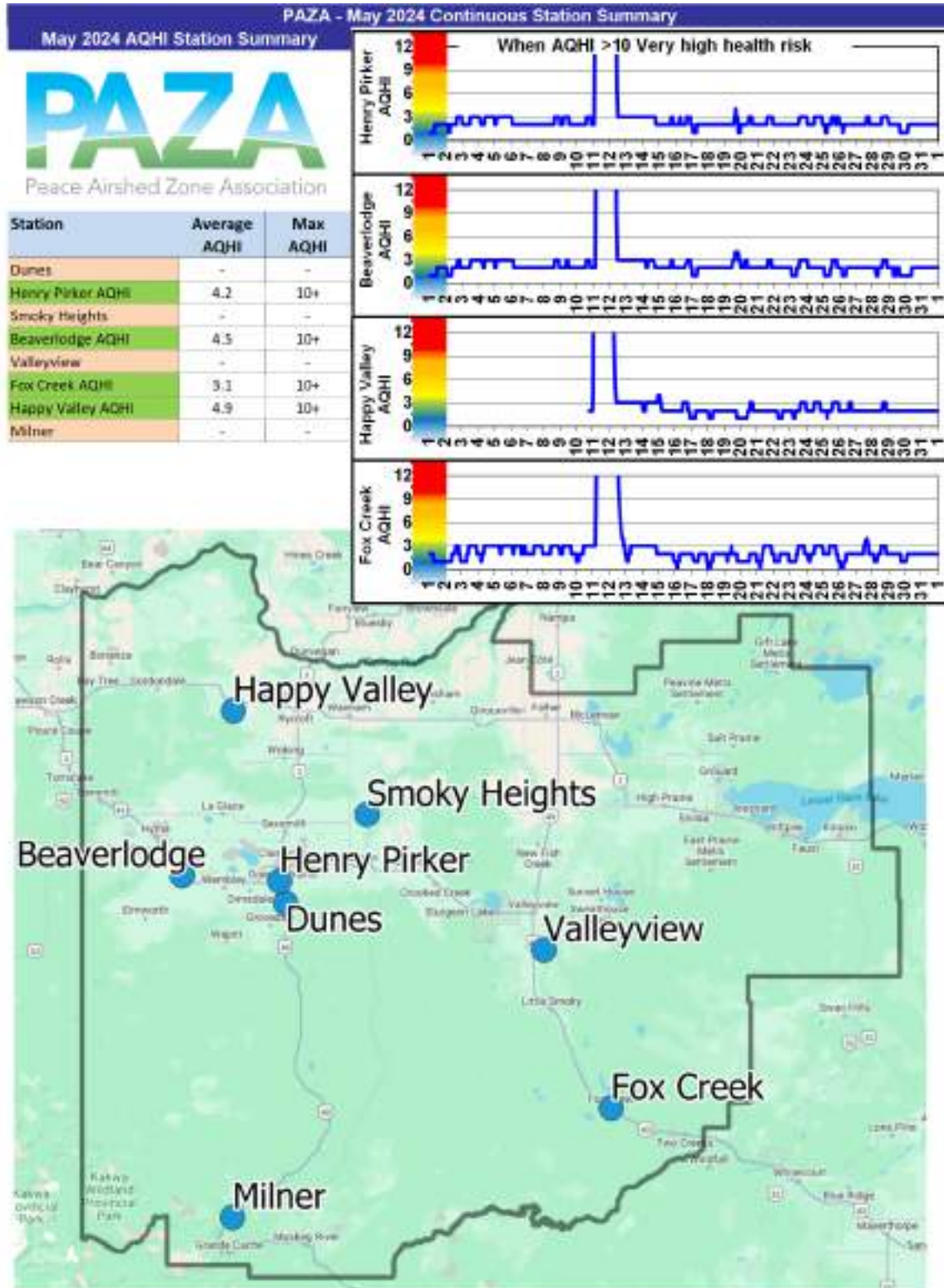
May 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Milner



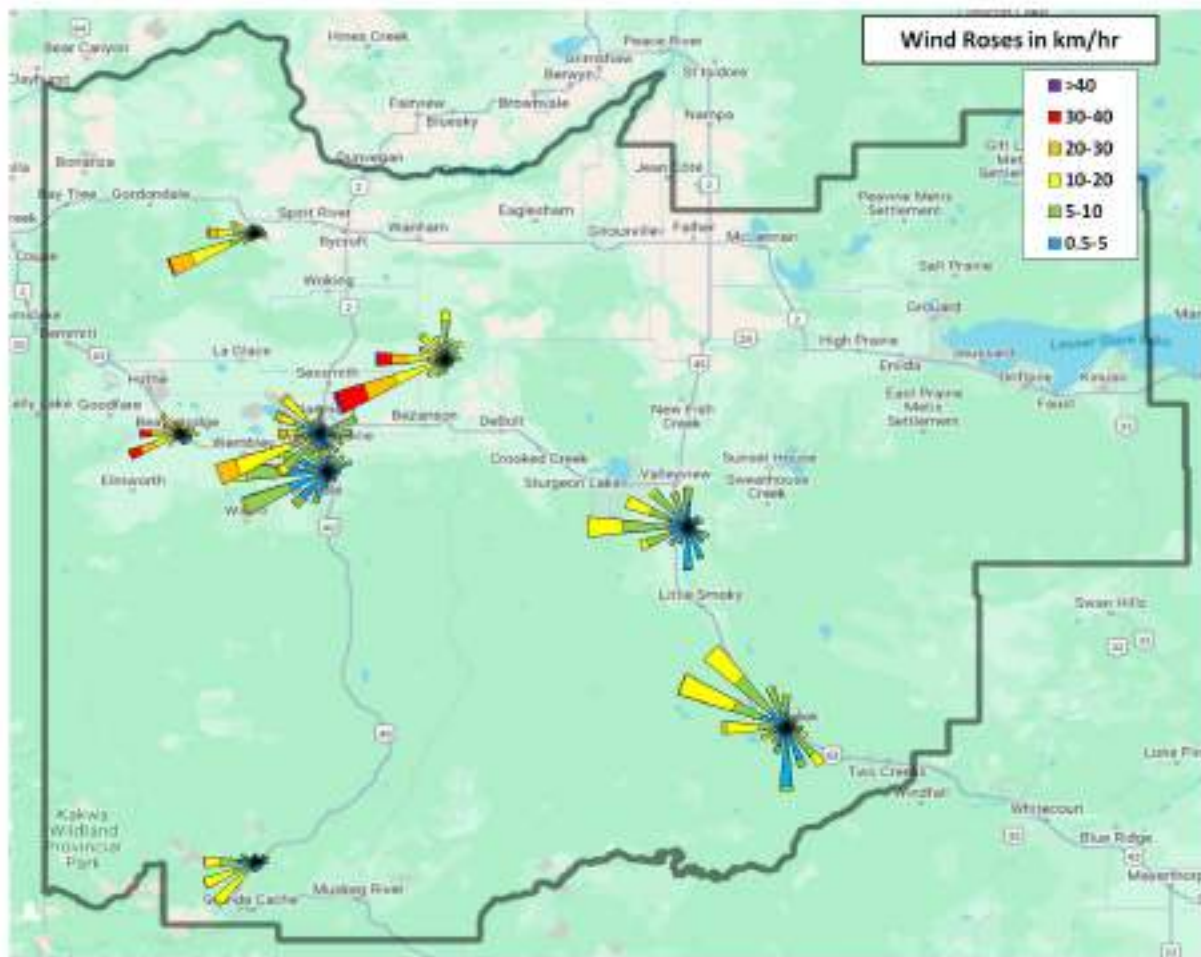
10 Concentration Summaries and Roses for PAZA



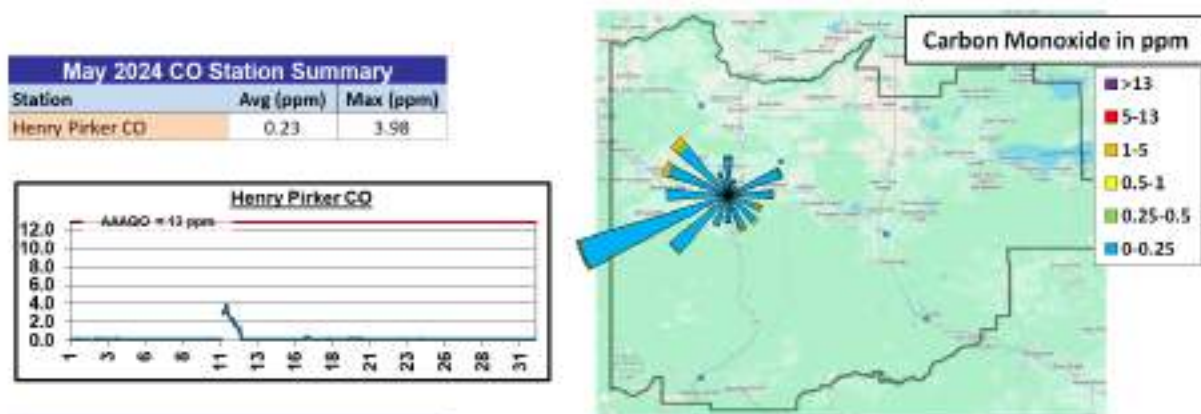
10.1 Air Quality Health Index (AQHI) Plots



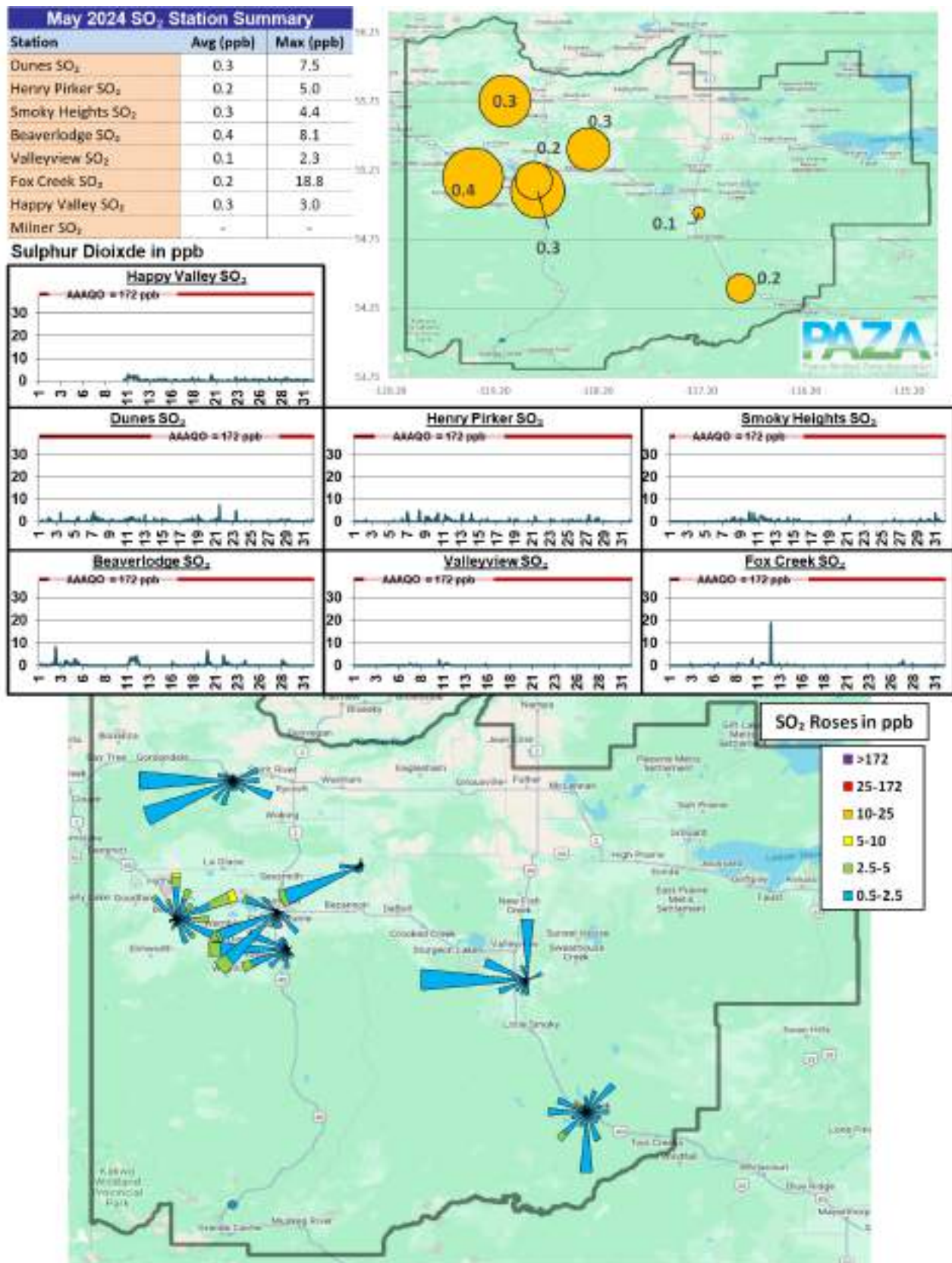
10.2 Wind Roses



10.3 Carbon Monoxide (CO) Plots

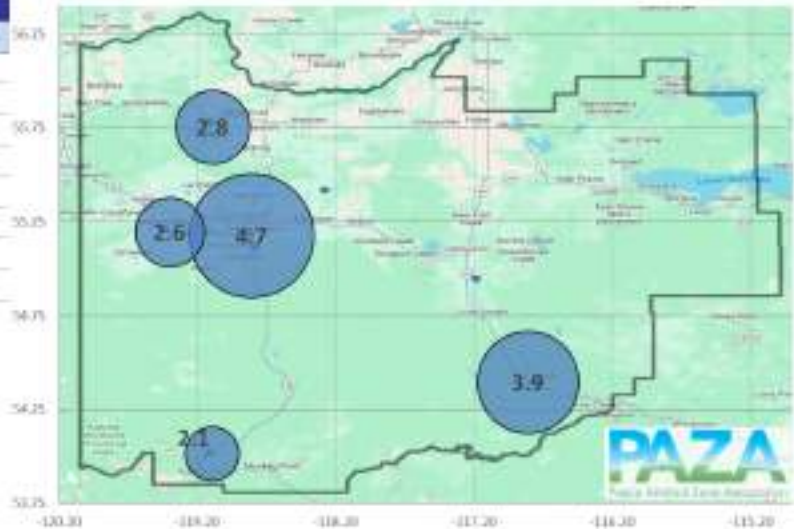


10.4 Sulphur Dioxide (SO₂) Plots

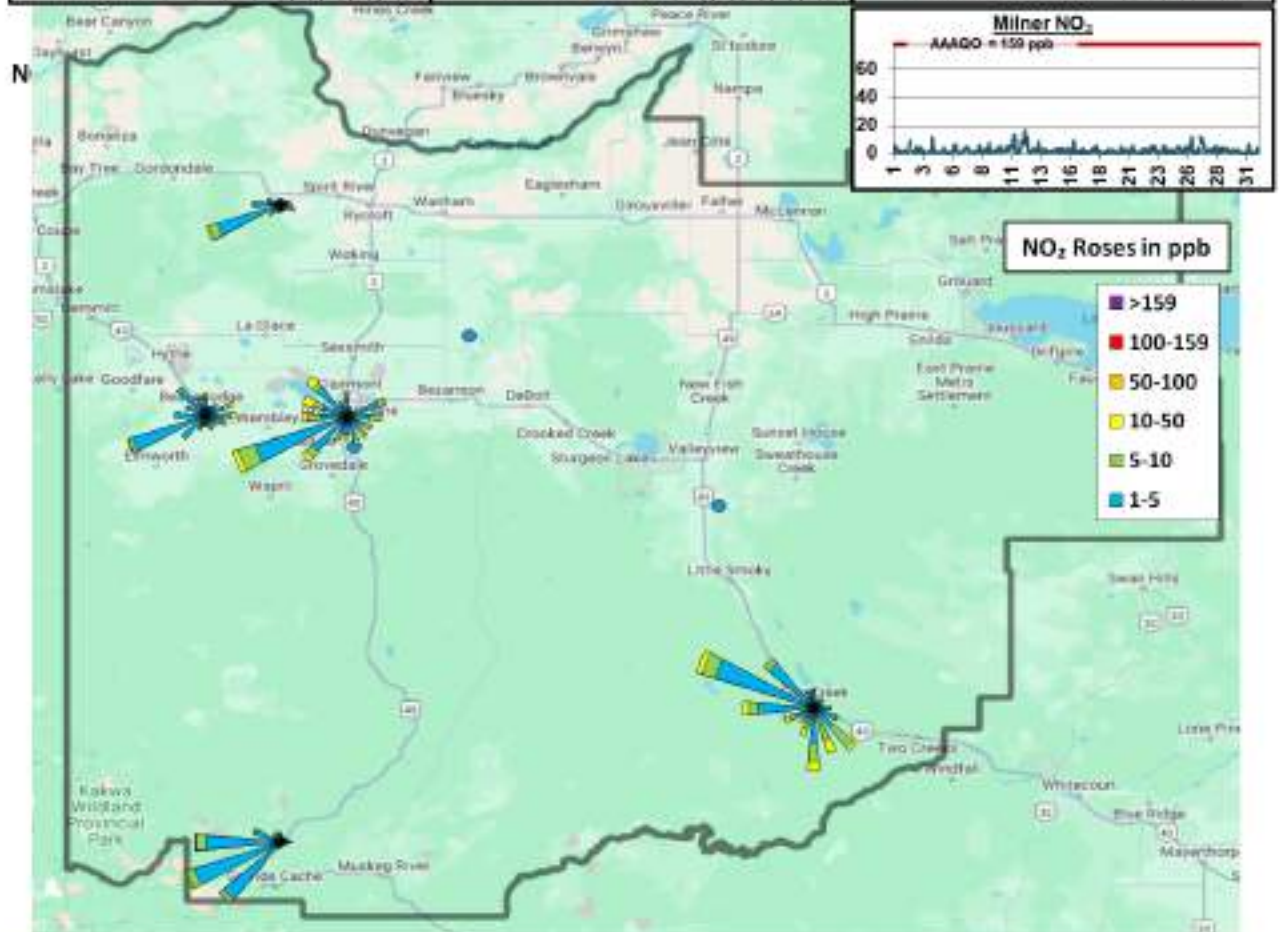
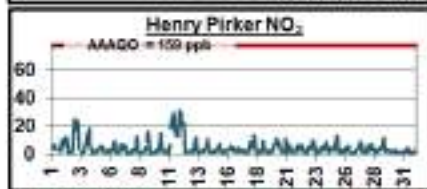
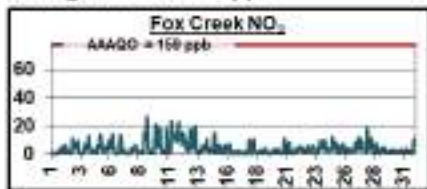


10.5 Nitrogen Dioxide (NO₂) Plots

May 2024 NO ₂ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes NO ₂	-	-
Henry Pirkler NO ₂	4.7	31.5
Smoky Heights NO ₂	-	-
Beaverlodge NO ₂	2.6	25.8
Valleyview NO ₂	-	-
Fox Creek NO ₂	3.9	26.4
Happy Valley NO ₂	2.8	20.4
Milner NO ₂	2.1	15.9

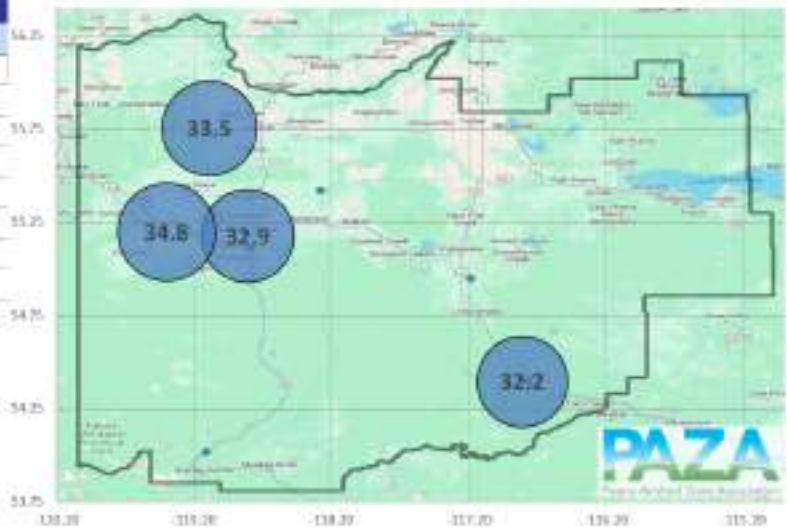


Nitrogen Dioxide in ppb

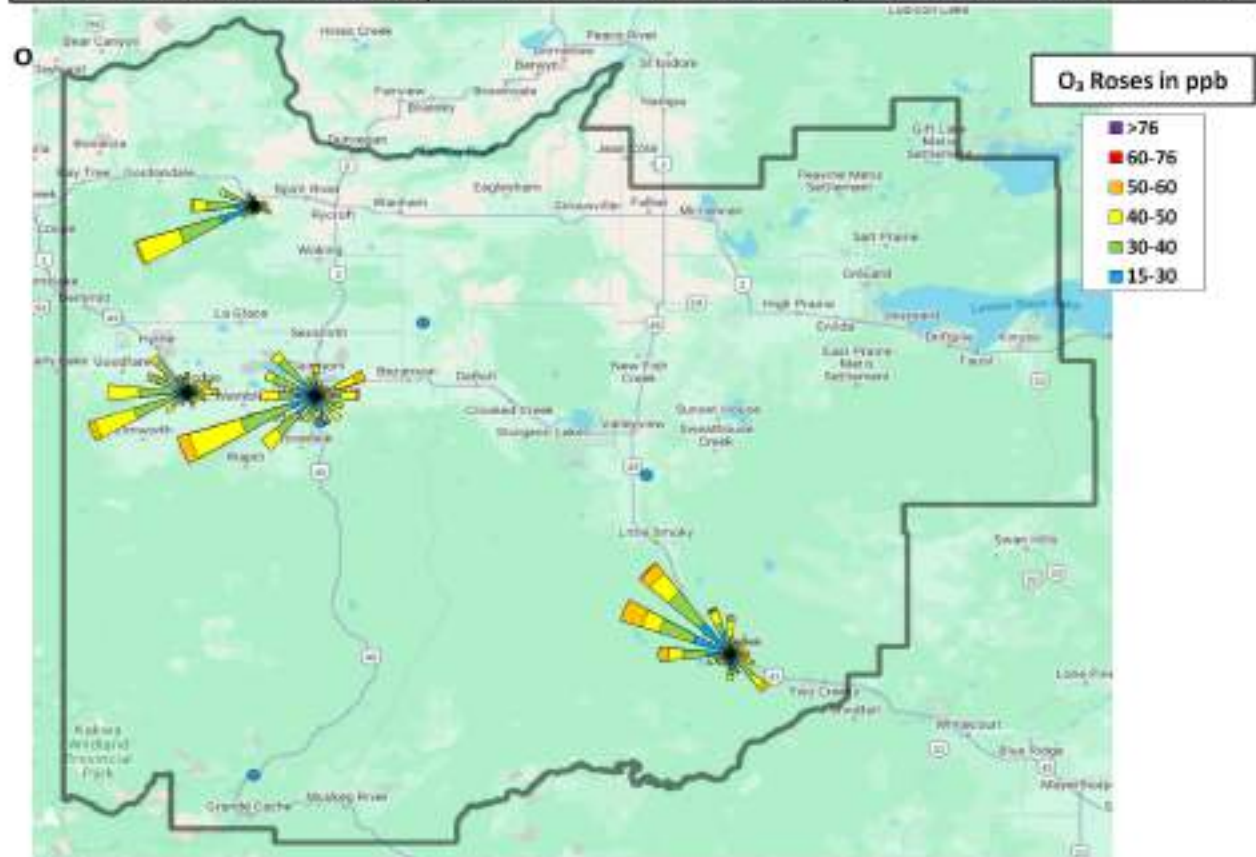
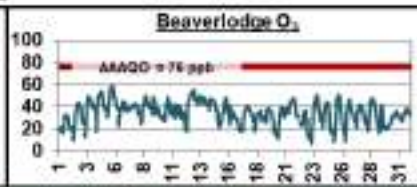


10.6 Ozone (O₃) Plots

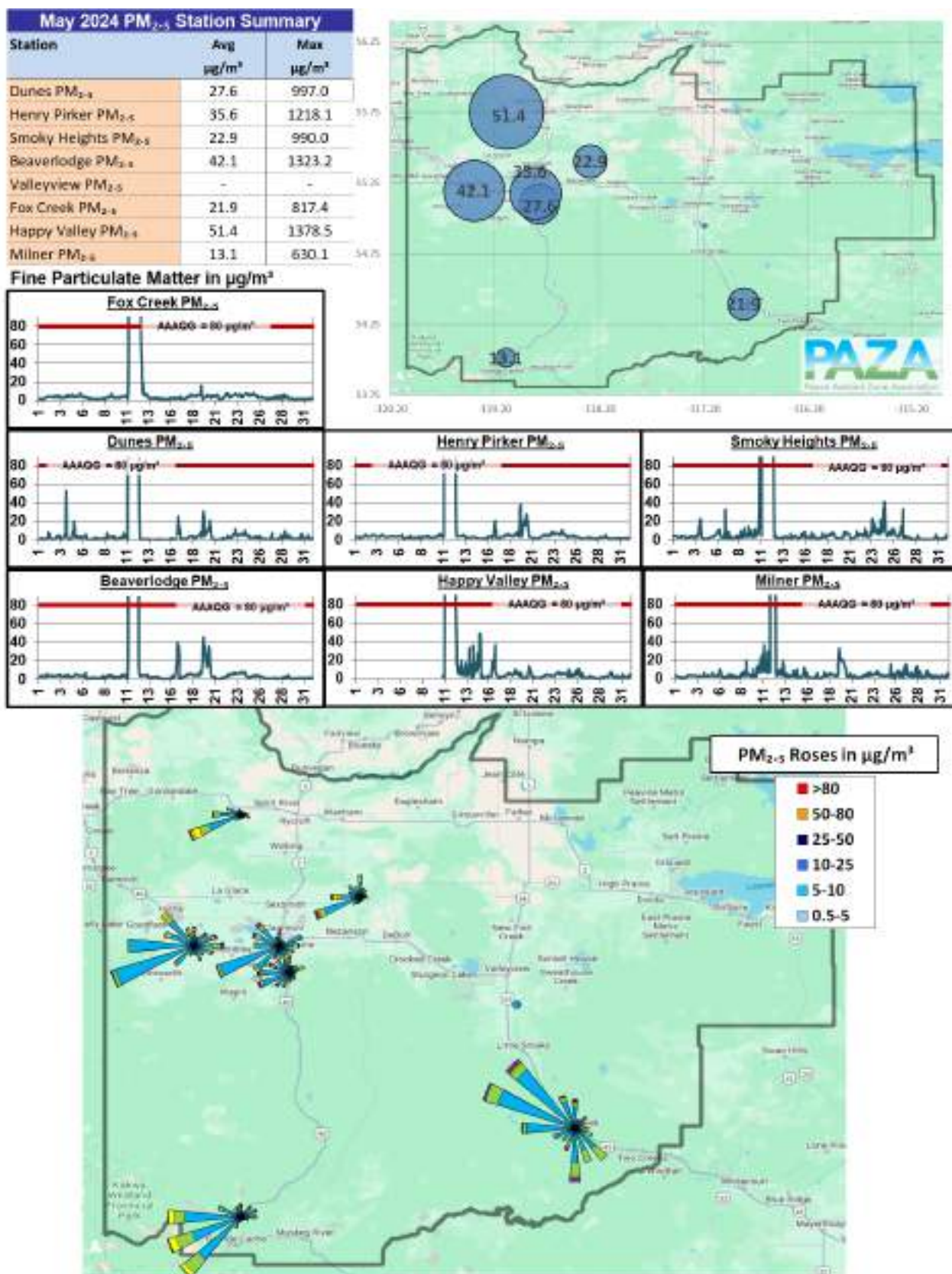
May 2024 O ₃ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes O ₃	-	-
Henry Pirkler O ₃	32.9	56.4
Smoky Heights O ₃	-	-
Beaverlodge O ₃	34.8	58.5
Valleyview O ₃	-	-
Fox Creek O ₃	32.2	60.6
Happy Valley O ₃	33.5	57.4
Milner O ₃	-	-



Ozone in ppb

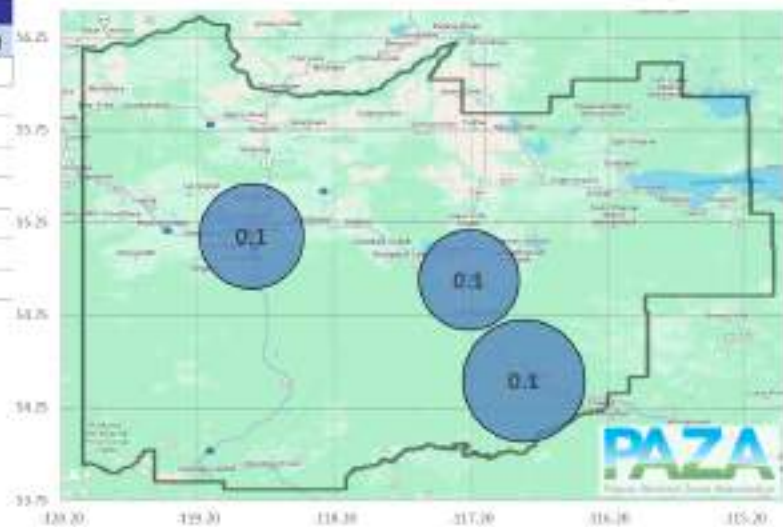


10.7 Fine Particulate Matter (PM_{2.5}) Plots

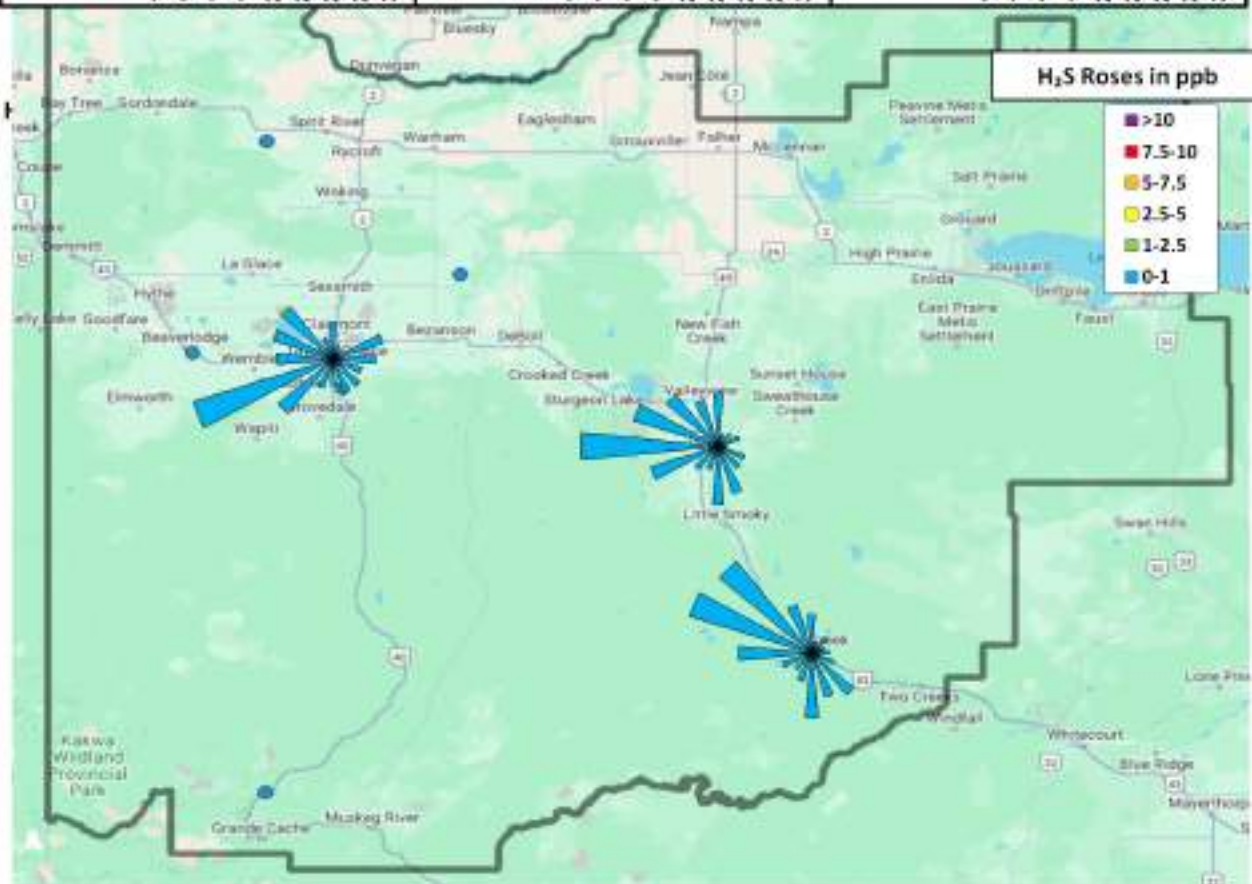
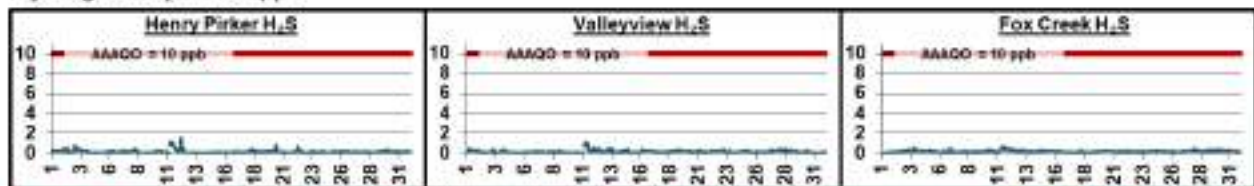


10.8 Hydrogen Sulphide (H₂S) Plots

Station	Avg (ppb)	Max (ppb)
Dunes H ₂ S	-	-
Henry Pirkler H ₂ S	0.1	1.5
Smoky Heights H ₂ S	-	-
Beaverlodge H ₂ S	-	-
Valleyview H ₂ S	0.1	1.0
Fox Creek H ₂ S	0.1	0.7
Happy Valley H ₂ S	-	-
Milner H ₂ S	-	-

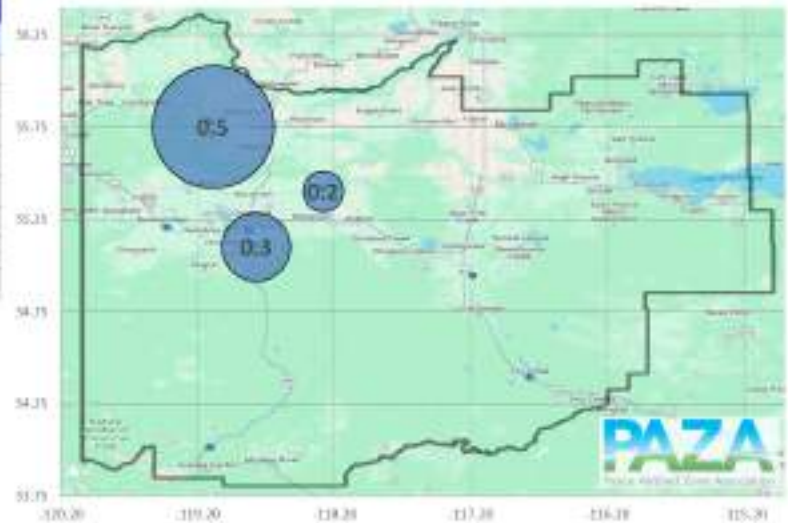


Hydrogen Sulphide in ppb

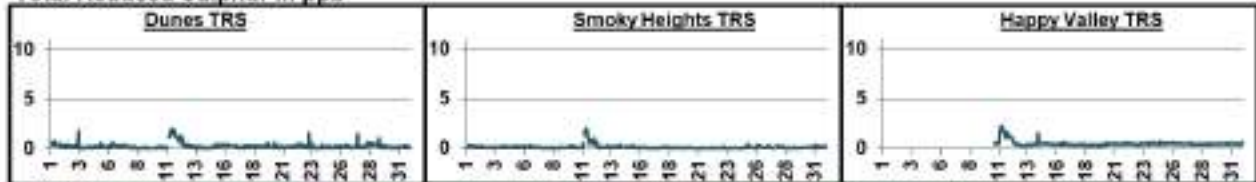


10.9 Total Reduced Sulphur (TRS) Plots

May 2024 TRS Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes TRS	0.3	2.0
Henry Parker TRS	-	-
Smoky Heights TRS	0.2	2.0
Beaverlodge TRS	-	-
Valleyview TRS	-	-
Fox Creek TRS	-	-
Happy Valley TRS	0.5	2.3
Milner TRS	-	-



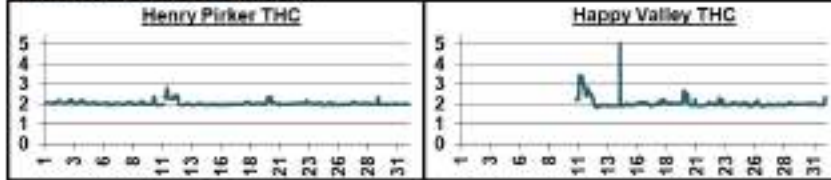
Total Reduced Sulphur in ppb



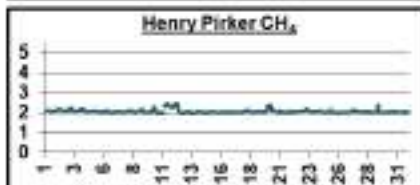
10.10 Total Hydrocarbon (THC) Plots

May 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 Pirker THC	2.0	2.8	2.0	2.5	0.00	0.35
Smoky Heights THC	-	-	-	-	-	-
Beaverlodge THC	-	-	-	-	-	-
Valleyview THC	-	-	-	-	-	-
Fox Creek THC	-	-	-	-	-	-
Happy Valley THC	2.1	5.1	-	-	-	-

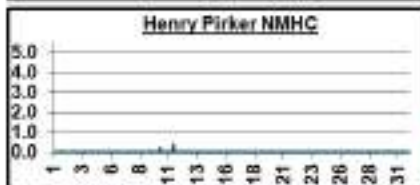
Total Hydrocarbons in ppm



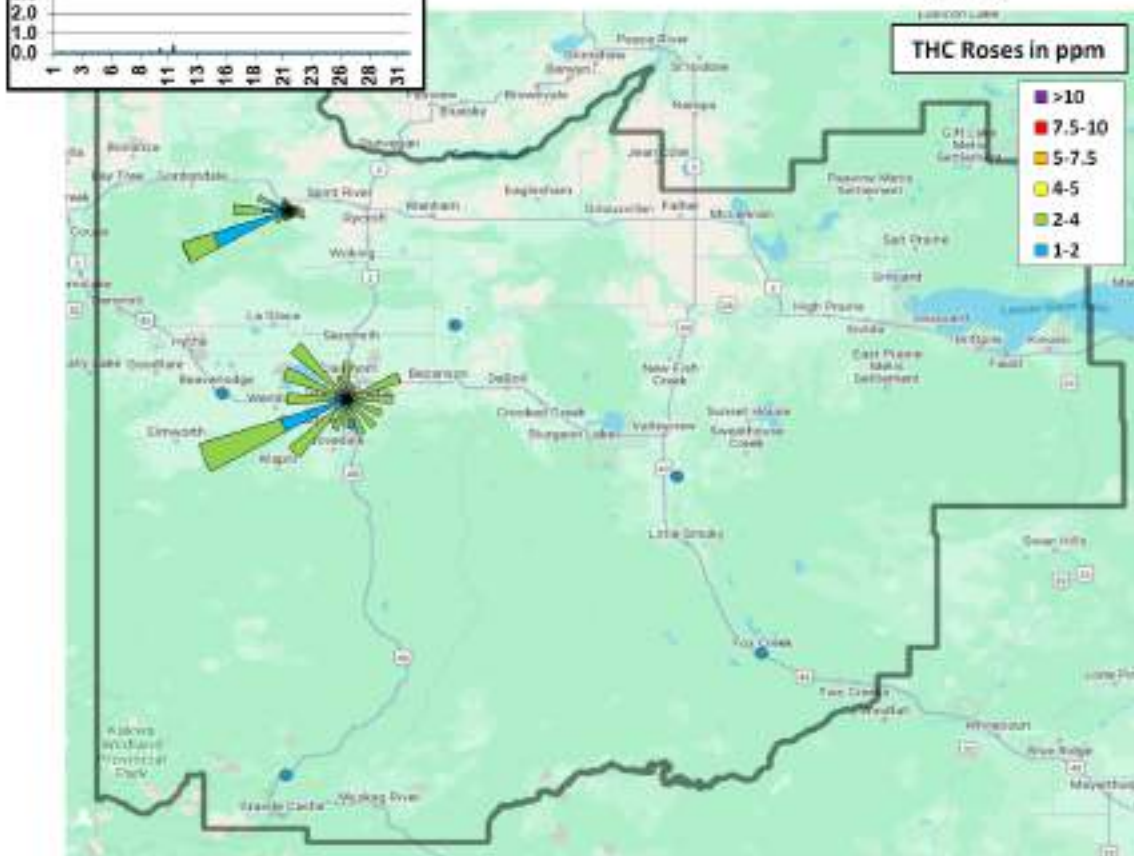
Total Hydrocarbons (THC)



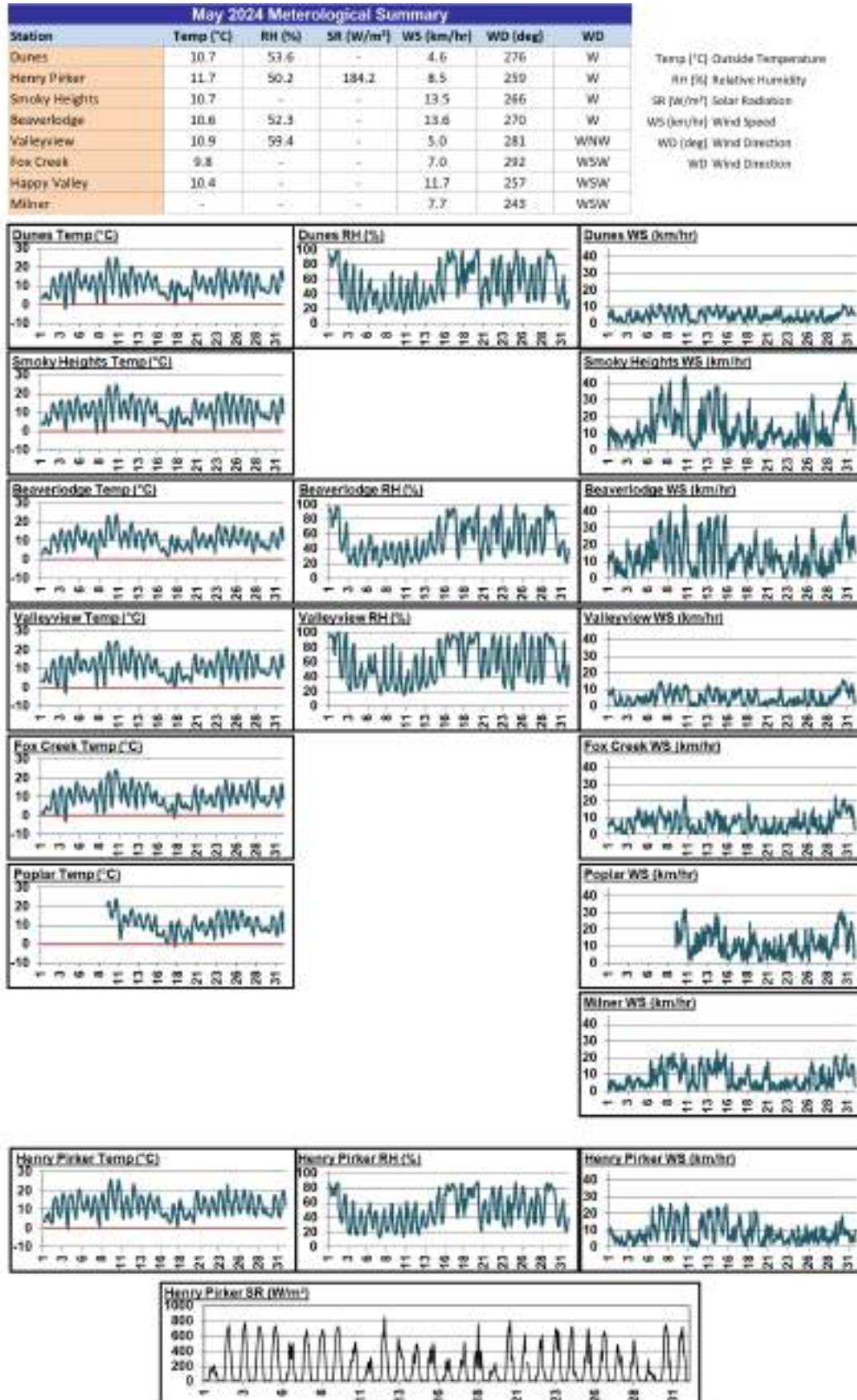
Methane (CH₄)



Non-Methane Hydrocarbons (NMHC)



10.11 Meteorology Summary



11 Passive Monitoring Data

Peace Airshed Zone Association - PAZA Passive Stations for May 2024

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
Duplicates						
2a	Bay Tree		42.3	0.5		13-16-078-13 W6M
2b	Bay Tree		40.9	0.6		
3a	Forth Creek	0.3				04-13-082-07 W6M
3b	Forth Creek	0.3				
5a	Boone Creek			0.8		01-23-076-11 W6M
5b	Boone Creek			0.7		
9a	Spirit River	0.4				08-12-079-07 W6M
9b	Spirit River	0.2				
27a	Grande Prairie I	0.5				08-15-071-06 W6M
27b	Grande Prairie I	0.4				
36a	Guy				0.31	03-04-076-22 W5M
36b	Guy				0.14	
37a	Crooked Creek			0.8		16-01-071-26 W5M
37b	Crooked Creek			0.8		
38a	Karr Creek			0.6		10-16-065-02 W6M
38b	Karr Creek			0.6		
42a	Sunset House	0.2				05-32-070-19 W5M
42b	Sunset House	0.3				
D4a	Duvernay 4	1.3			0.04	04-33-062-20 W5M
D4b	Duvernay 4	missing			0.05	
K3a	Kakwa 3			3.1		12-18-063-04 W6M
K3b	Kakwa 3			3.2		
K4a	Kakwa 4	2.3				06-18-063-04 W6M
K4b	Kakwa 4	1.6				
K1a	Kakwa 1				0.03	01-13-063-05 W6M
K1b	Kakwa 1				0.05	
M9Aa	Milner Pipeline			1.3		12-14-058-08 W6M
M9Ab	Milner Pipeline			1.2		
M7a	Milner Wanyandie	0.7				11-13-058-08 W6M
M7b	Milner Wanyandie	0.3				
J1a	Jayar1 Plant			1.0		06-08-062-03 W6M
J1b	Jayar1 Plant			1.1		
J2a	Jayar2 14-8	0.5				07-08-062-03 W6M
J2b	Jayar2 14-8	0.4				
J5a	Jayar5 Camp				0.44	11-08-062-03 W6M
J5b	Jayar5 Camp				0.43	

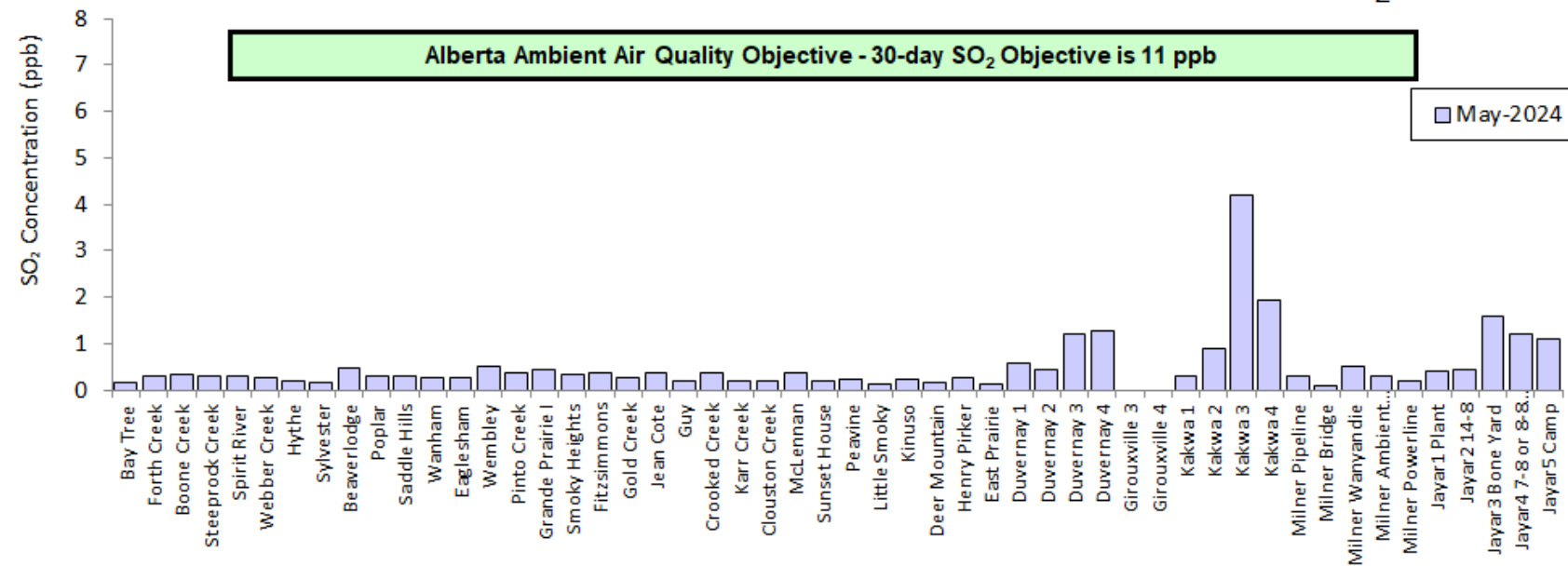
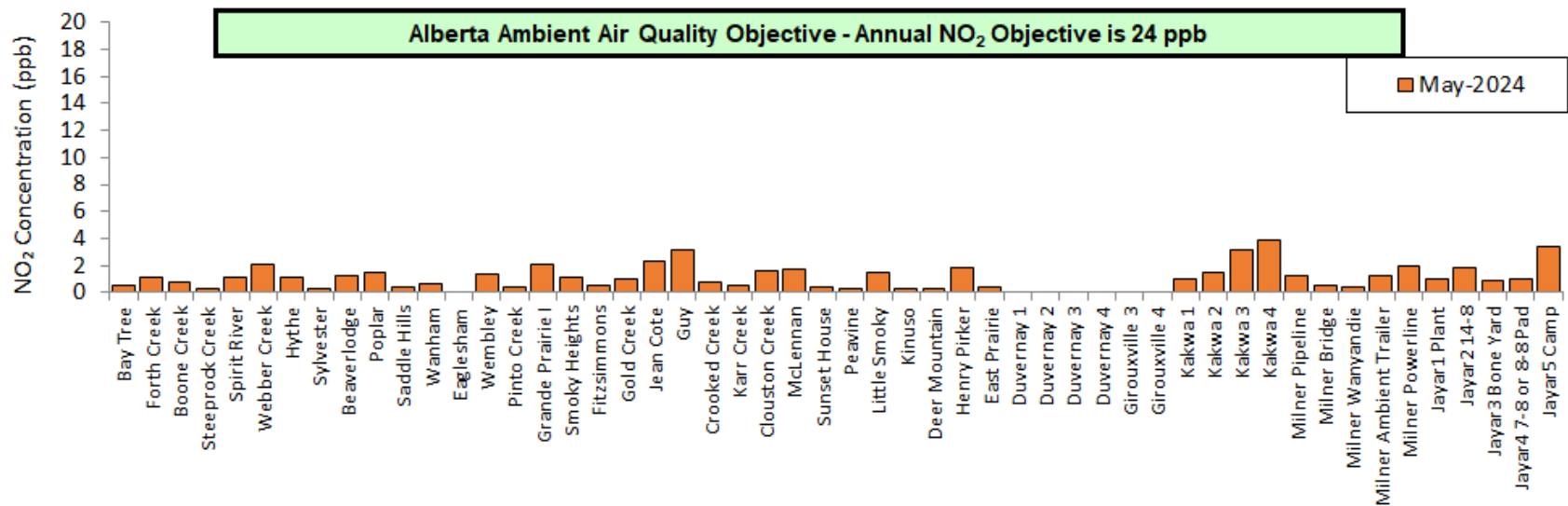
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
2	Bay Tree	0.2	41.6	0.6	-	13-16-078-13 W6M
3	Forth Creek	0.3	-	1.1	-	04-13-082-07 W6M
5	Boone Creek	0.4	-	0.7	-	01-23-076-11 W6M
7	Steeprock Creek	0.3	-	0.3	-	09-35-072-13 W6M
9	Spirit River	0.3	-	1.1	-	08-12-079-07 W6M
11	Webber Creek	0.3	-	2.0	-	09-36-074-09 W6M
12	Hythe	0.2	-	1.1	-	14-36-072-11 W6M
14	Sylvester	0.2	-	0.3	-	08-06-069-12 W6M
16	Beaverlodge	0.5	-	1.3	-	15-36-071-10 W6M
17	Poplar	0.3	-	1.5	-	13-06-073-08 W6M
18	Saddle Hills	0.3	-	0.4	-	04-25-074-07 W6M
19	Wanham	0.3	-	0.6	-	16-22-077-03 W6M
21	Eaglesham	0.3	-	Damaged	-	16-21-079-25 W5M
24	Wembley	0.5	-	1.4	-	12-31-070-08 W6M
25	Pinto Creek	0.4	-	0.4	-	04-24-069-11 W6M
27	Grande Prairie I	0.4	-	2.0	-	08-15-071-06 W6M
29	Smoky Heights	0.3	-	1.1	-	04-06-075-02 W6M
30	Fitzsimmons	0.4	-	0.6	-	15-36-072-03 W6M
32	Gold Creek	0.3	-	1.0	-	06-33-067-05 W6M
35	Jean Cote	0.4	-	2.4	-	12-35-079-21 W5M
36	Guy	0.2	-	3.1	0.22	03-04-076-22 W5M
37	Crooked Creek	0.4	41.0	0.8	-	16-01-071-26 W5M
38	Karr Creek	0.2	-	0.6	-	10-16-065-02 W6M
39	Clouston Creek	0.2	-	1.6	-	12-01-073-22 W5M
40	McLennan	0.4	-	1.8	-	03-29-077-19 W5M
42	Sunset House	0.2	-	0.4	-	05-32-070-19 W5M
44	Peavine	0.2	-	0.3	-	03-05-079-15 W5M
46	Little Smoky	0.1	-	1.5	-	12-01-065-21 W5M
47	Kinuso	0.2	43.2	0.3	-	12-10-073-10 W5M
48	Deer Mountain	0.2	-	0.3	-	15-22-068-09 W5M
49	Henry Pirker	0.3	-	1.8	-	17-26-071-06 W6M
50	East Prairie	0.1	-	0.4	-	11-13-079-08 W6M
D1	Duvernay 1	0.6	-	-	0.06	04-33-062-20 W5M
D2	Duvernay 2	0.4	-	-	0.05	04-33-062-20 W5M
D3	Duvernay 3	1.2	-	-	0.05	04-33-062-20 W5M
D4	Duvernay 4	1.3	-	-	0.04	04-33-062-20 W5M
G3	Girouxville 3	-	-	-	0.34	14-02-077-23 W5M
G4	Girouxville 4	-	-	-	0.14	04-08-077-22 W5M
K1	Kakwa 1	0.3	-	1.0	0.04	01-13-063-05 W6M
K2	Kakwa 2	0.9	-	1.5	0.10	08-13-063-05 W6M
K3	Kakwa 3	4.2	-	3.2	0.05	12-18-063-04 W6M
K4	Kakwa 4	2.0	-	3.9	0.07	06-18-063-04 W6M
M1	Milner Pipeline	0.3	-	1.3	-	12-14-058-08 W6M
M2	Milner Bridge	0.1	-	0.5	-	08-06-057-08 W6M
M3	Milner Wanyandie	0.5	-	0.4	-	11-13-058-08 W6M
M4	Milner Ambient Trailer	0.3	-	1.2	-	09-15-058-08 W6M
M5	Milner Powerline	0.2	-	2.0	-	06-14-058-08 W6M
J1	Jayar1 Plant	0.4	-	1.1	0.07	06-08-062-03 W6M
J2	Jayar2 14-8	0.5	-	1.8	0.07	07-08-062-03 W6M
J3	Jayar3 Bone Yard	1.6	-	0.9	0.06	14-08-062-03 W6M
J4	Jayar4 7-8 or 8-8 Pad	1.2	-	1.0	0.09	10-08-062-03 W6M
J5	Jayar5 Camp	1.1	-	3.4	0.44	11-08-062-03 W6M

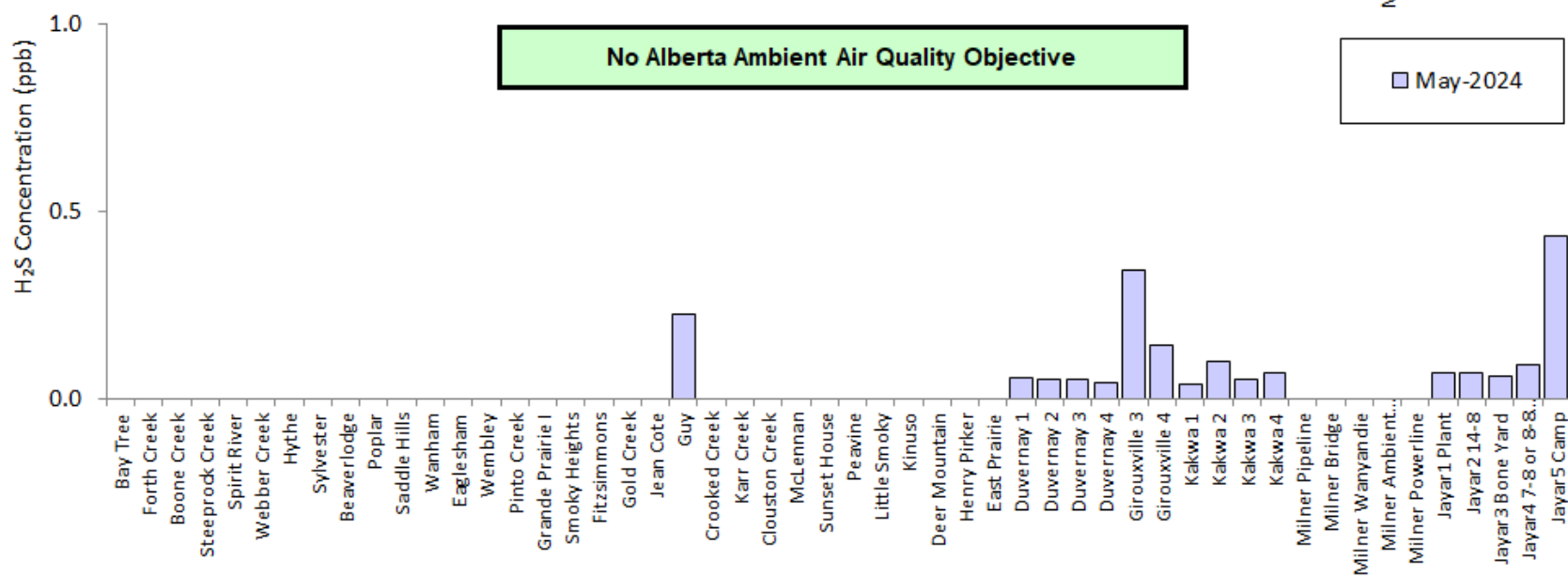
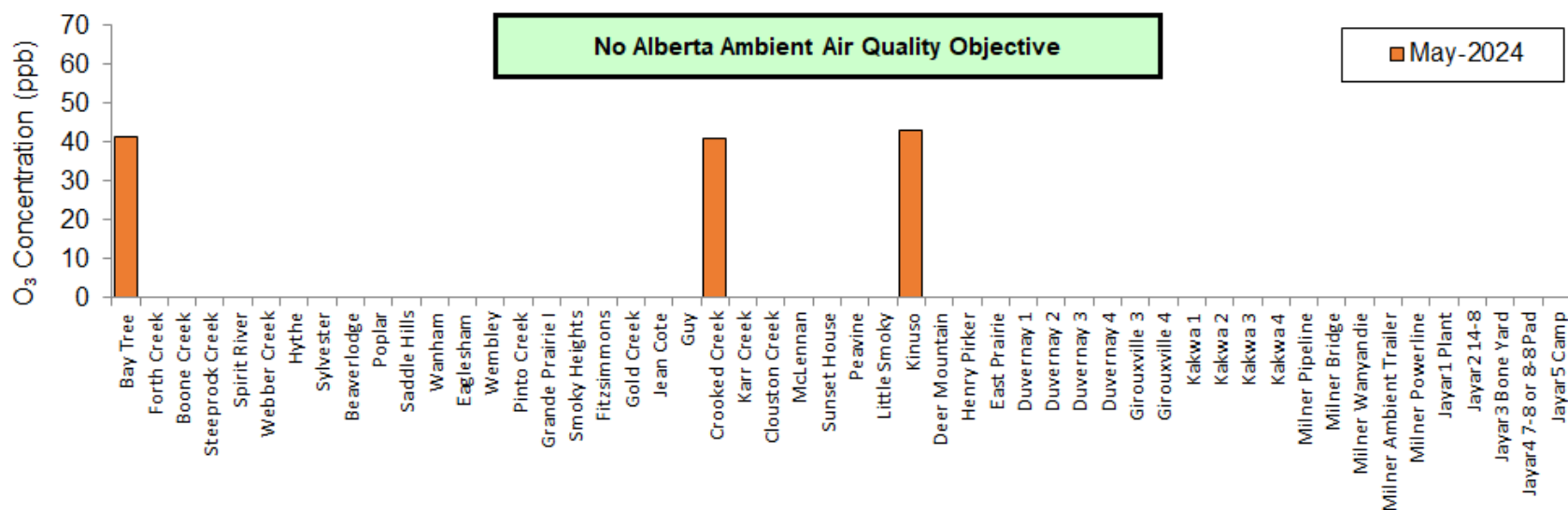
Passive Summary for May 2024

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂	Hydrogen Sulphide H ₂ S
	ppb	ppb	ppb	ppb

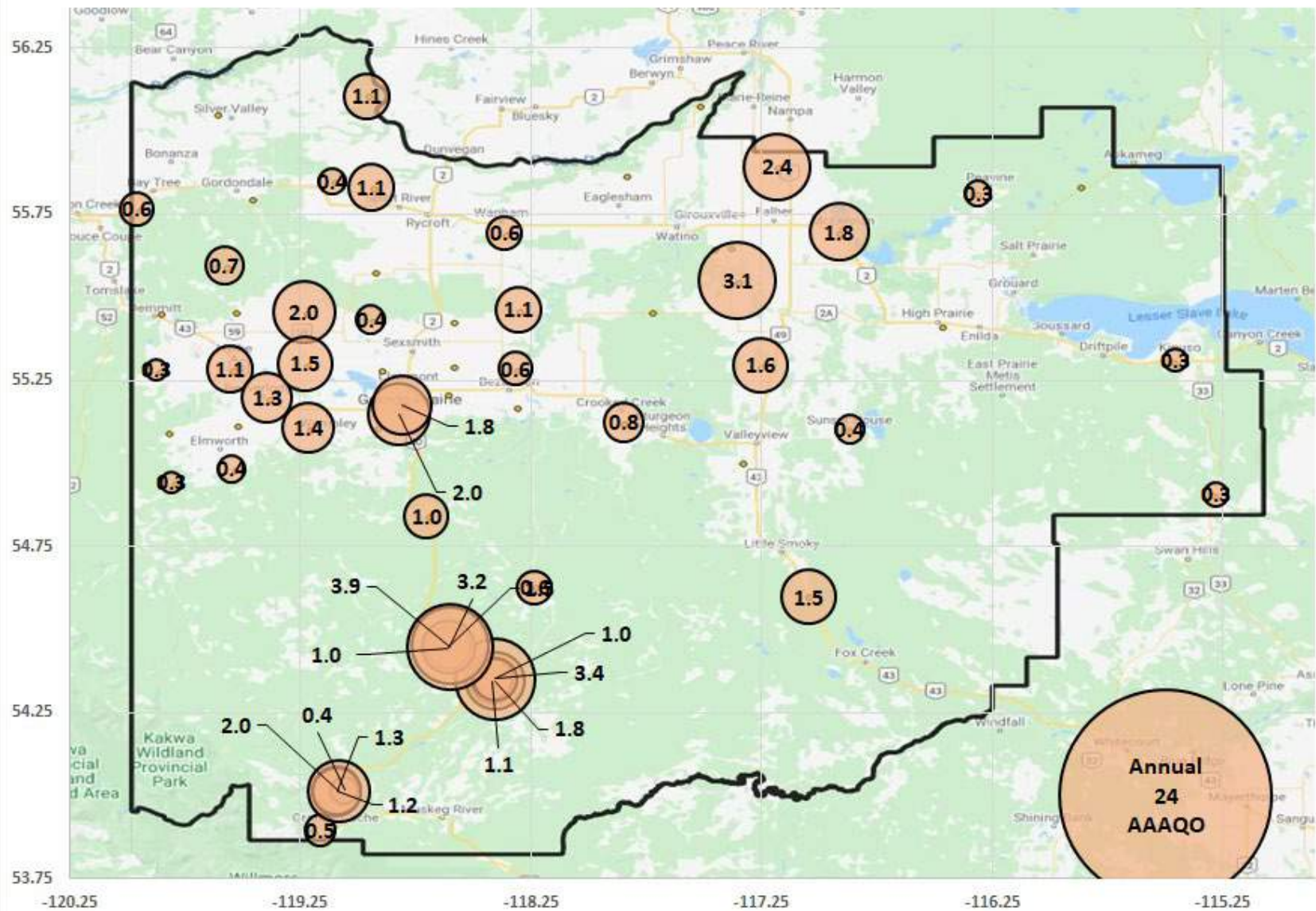
Passive Summary for May 2024 (PAZA)				
Mean	0.5	41.9	1.2	0.1
Standard Deviation	0.7	1.1	0.9	0.1
Minimum	0.1	41.0	0.3	0.0
	Milner Bridge (#M2)	Crooked Creek (#37)	Sylvester (#14)	Kakwa 1 (#K1)
Maximum	4.2	43.2	3.9	0.4
	Kakwa 3 (#K3)	Kinuso (#47)	Kakwa 4 (#K4)	Jayar5 Camp (#J5)

Continuous and Passive Monitoring Comparision				
PAZA Beaverlodge Station	0.4	34.8	2.6	-
Beaverlodge Passive (#16)	0.5	-	1.3	-
PAZA Henry Pirker Station	0.2	32.9	4.7	0.1
Henry Pirker passive (#49)	0.3	-	1.8	-
Milner Station	-	-	2.1	-
Milner passive	0.3	-	1.2	-

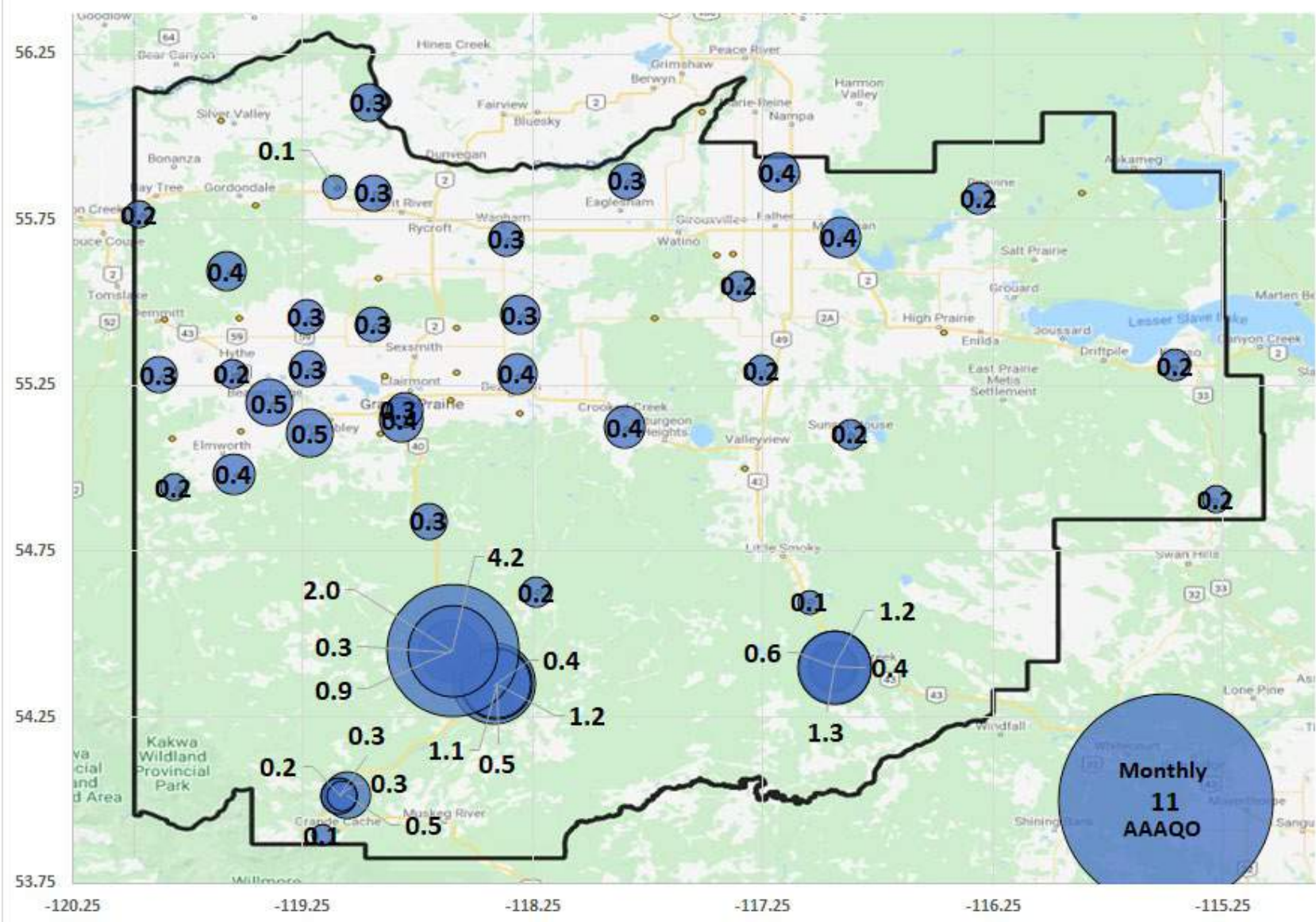




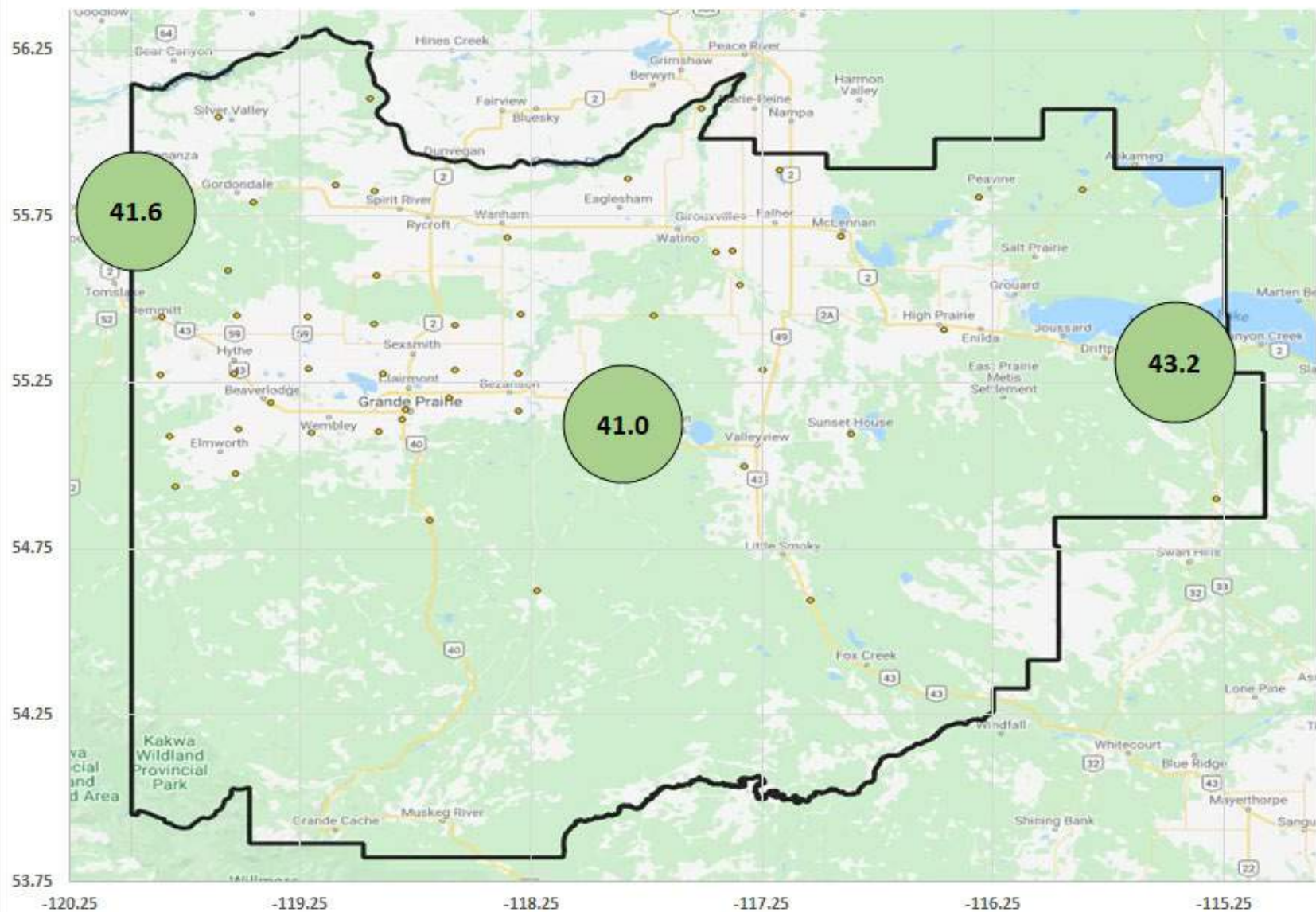
NO₂ Monthly Average (units in ppb)



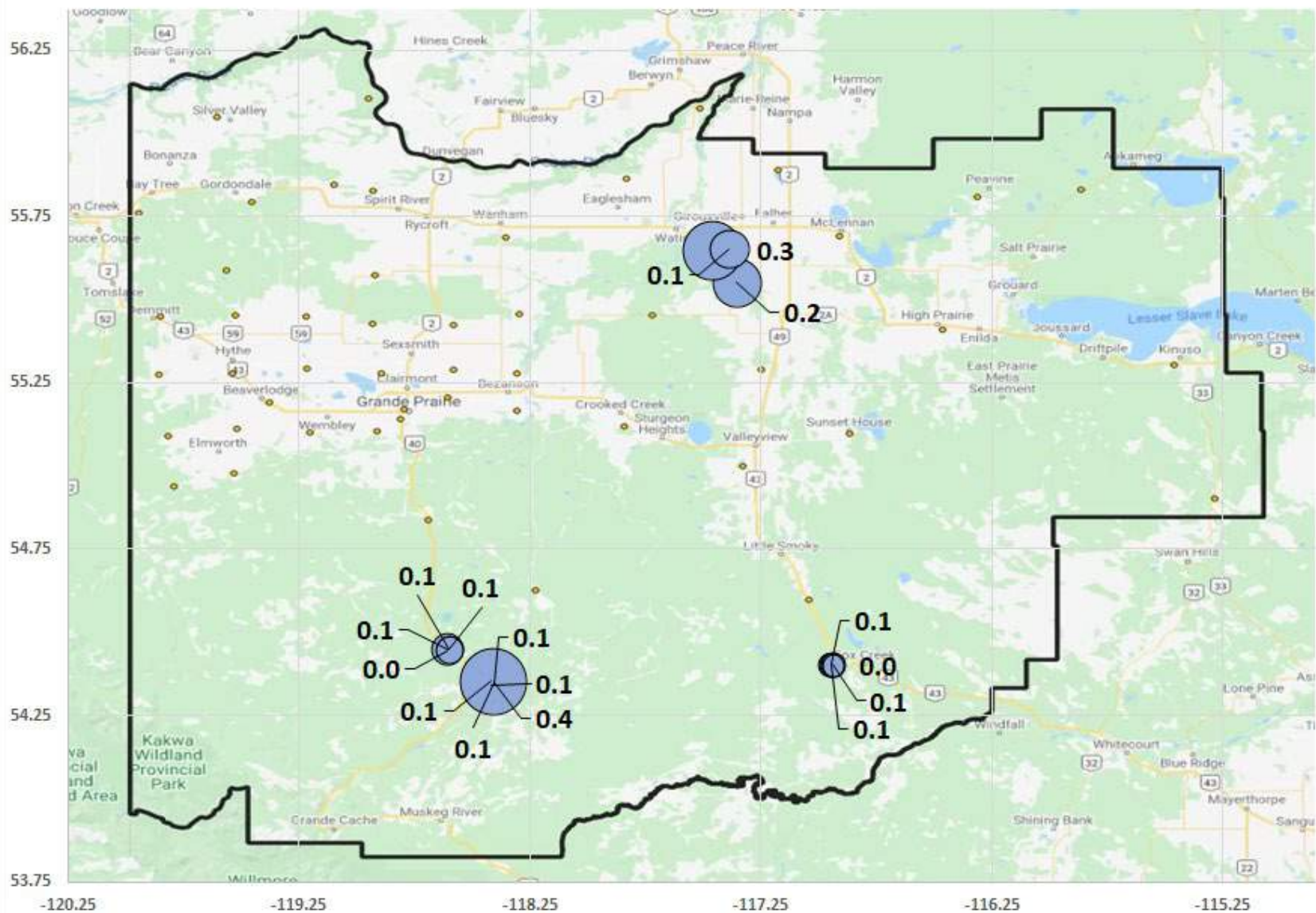
SO₂ Monthly Average (units in ppb)



O₃ Monthly Average (units in ppb)



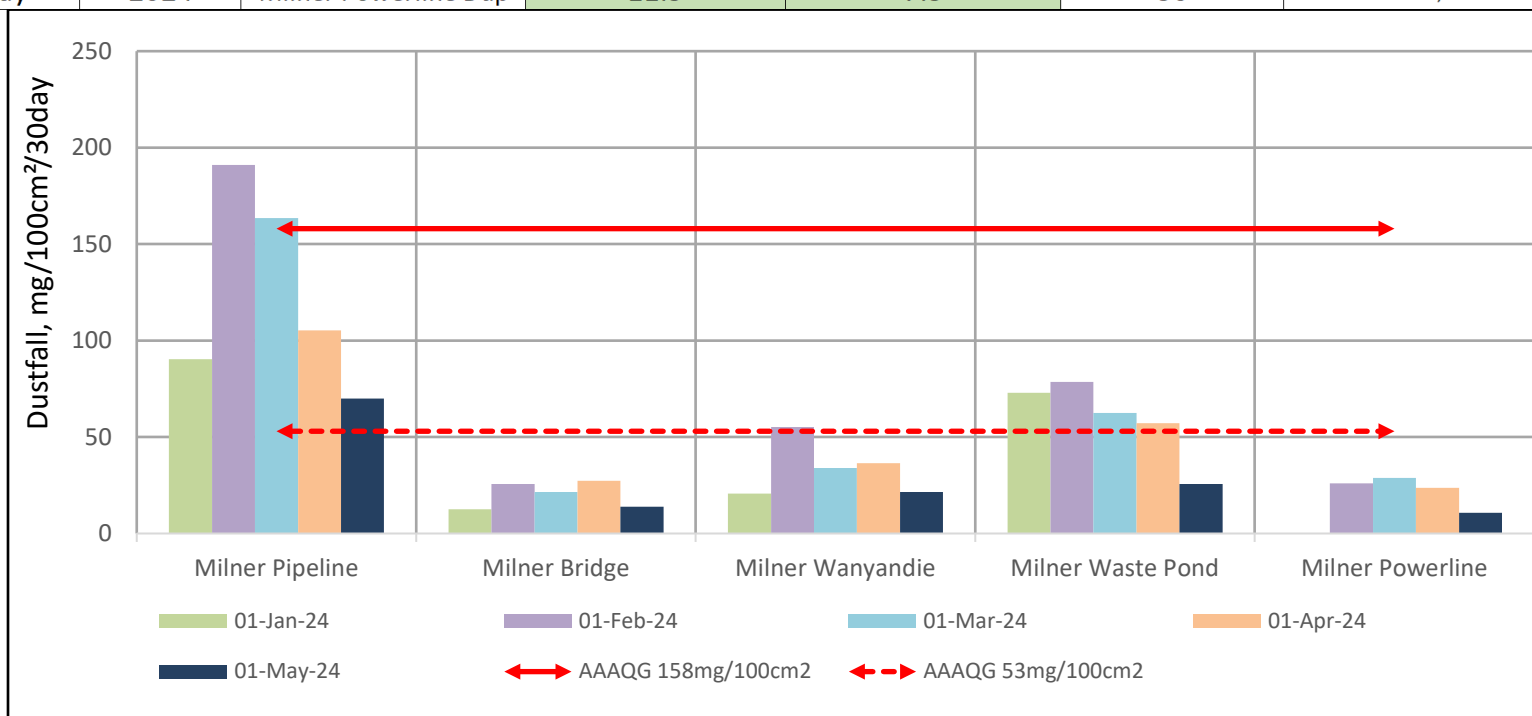
H₂S Monthly Average (units in ppb)



12 Dustfall Monitoring Data

Milner Dustfall Samples May 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
May	2024	Milner Pipeline	70.0	32.6	30	
May	2024	Milner Bridge	13.9	9.0	30	
May	2024	Milner Wanyandie	21.5	11.1	30	
May	2024	Milner Waste Pond	25.6	13.9	30	
May	2024	Milner Powerline	10.8	7.0	30	
May	2024	Milner Powerline Dup	11.5	7.3	30	RPD, 6% / 5%



End of Report



Peace Airshed Zone Association

Ambient Air Monitoring Report

May 2024