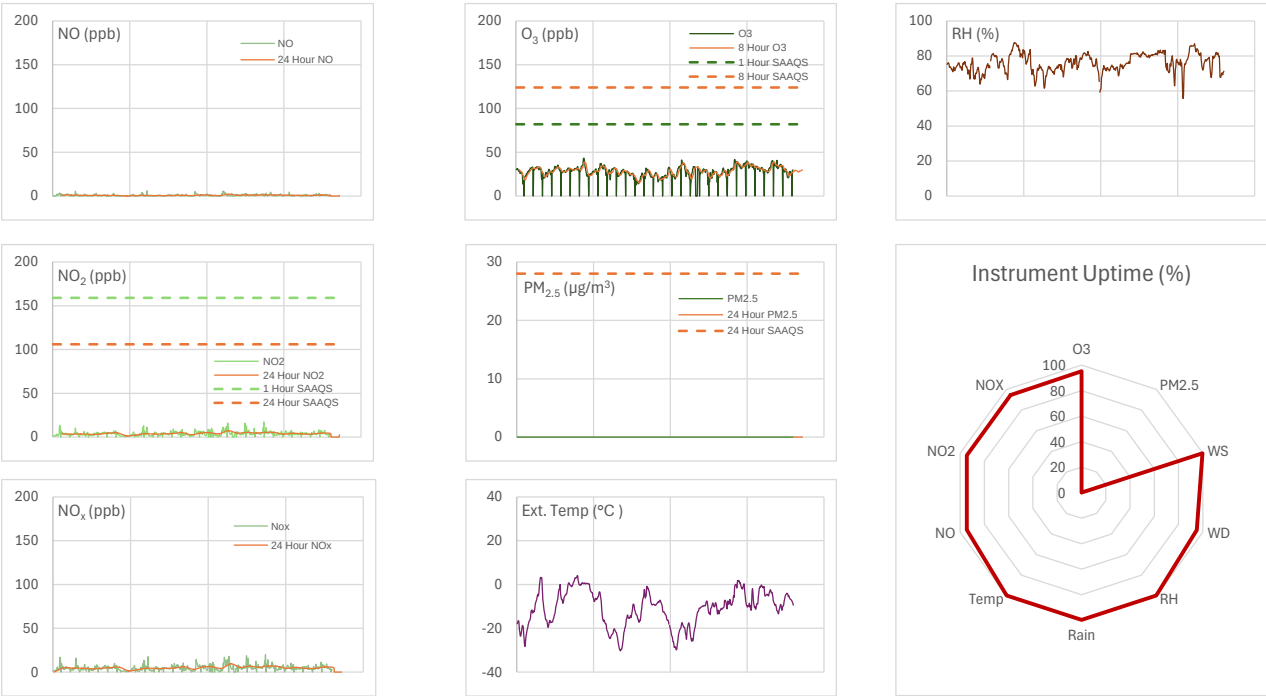
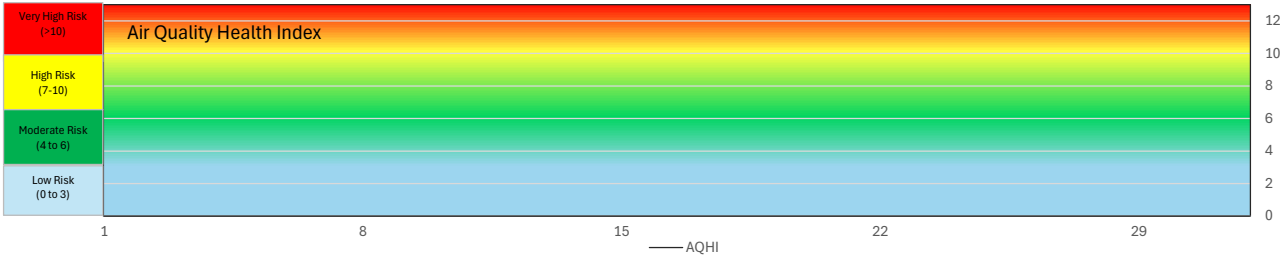


WYAMZ Clavet Station - December 2024 Summary Report

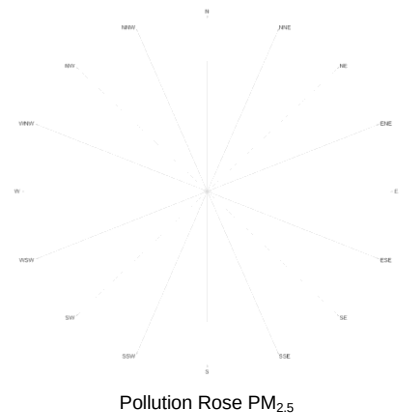
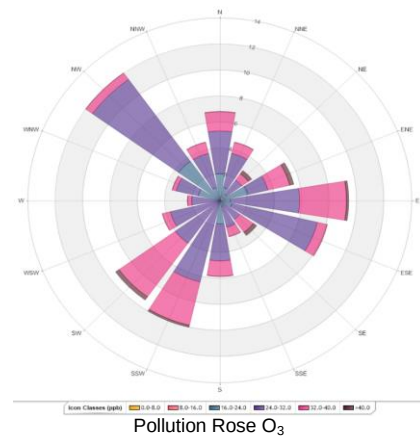
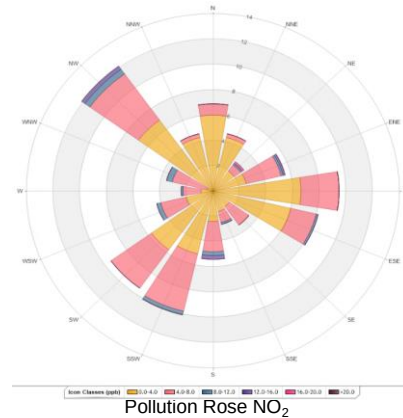
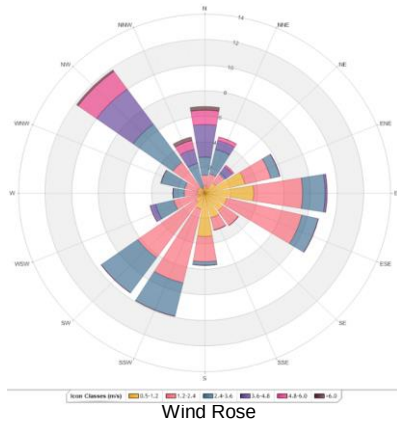
Pollutants		Month Records		24 Hour Records				1 Hour Records			
Name	Unit	Average Concentration	Uptime	Maximum		SAAQS Objective*	Exceed Days	Maximum		SAAQS Objective	Exceed Hours
				Conc.	Date			Conc.	Date and Time		
NO	ppb	0.9	94.5%	2.10	19-Dec	-	-	6.1	12/11/2024 5:00 AM	-	-
NO ₂	ppb	4	94.5%	7.31	19-Dec	106	0	17.3	12/23/2024 8:00 PM	159	0
NO _x	ppb	4.9	94.5%	9.41	19-Dec	-	-	19.8	12/23/2024 8:00 PM	-	-
O ₃	ppb	28.5	95.2%	39.06	24-Dec	124 (8 hours)	0	43.3	12/8/2024 8:00 AM	82	0
PM _{2.5}	µg/m ³	No Data	0.0%	0.00	-	28	0	No Data	-	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Exceedance Summary										
24-hour Exceedance Information			Summary of other Parameters during Exceedance							
Pollutant	Date	Conc.	WS	WD	Precip.	NO	NO ₂	NO _x	O ₃	PM _{2.5}

WYAMZ Clavet Station - December 2024 Summary Report



Parameters	Unit	Color Code for Wind Speed and Pollutant Conc. Class					
Wind Speed	m/s	0.5 - 1.2	1.2 - 2.4	2.4 - 3.6	3.6 - 4.8	4.8 - 6.0	> 6.0
NO ₂	ppb	0.0-C-4.0	4.0-C-8.0	8.0-C-12.0	12.0-C-16.0	16.0-C-20.0	> 20
O ₃	ppb	0.0-C-8.0	8.0-C-16.0	16.0-C-24.0	24.0-C-32.0	32.0-C-40.0	> 40
PM _{2.5}	µg/m ³	N/A	N/A	N/A	N/A	N/A	N/A

Monthly Update

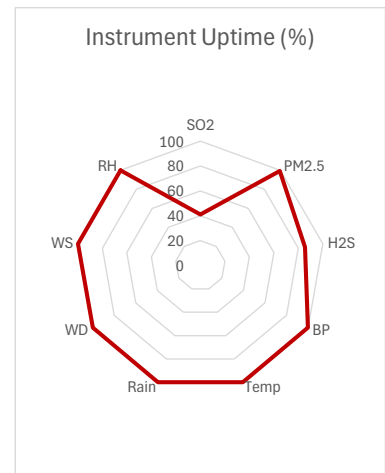
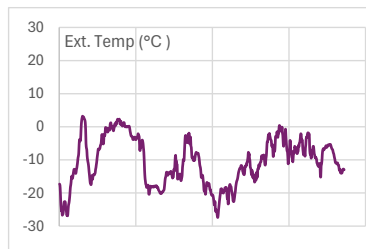
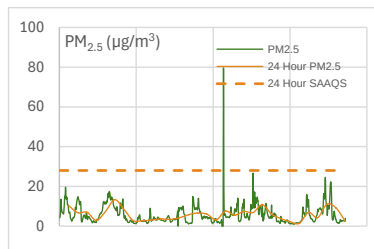
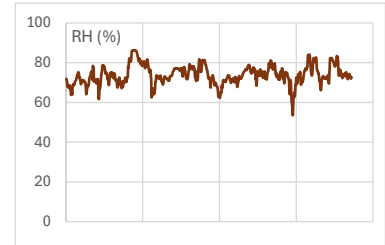
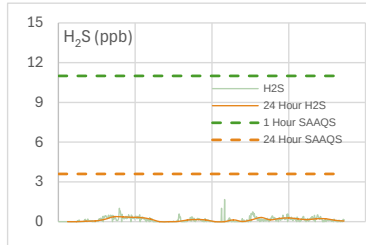
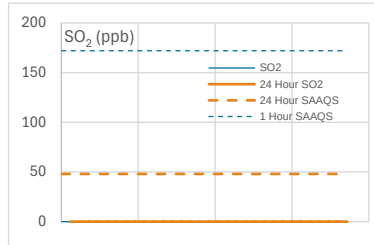
- * All data has been zero drift and baseline corrected, if any. Data may change after final validation process.
- * All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- * All compliance parameters were more than 90% operational for the month, except for PM_{2.5}. Monitor was removed on October 24, 2024 for repair.
- * NO_x and O₃ span failures were intermittently observed at Clavet during periods of extreme cold, indicating that seasonal ambient temperature fluctuations appear to be affecting analyzer performance. As temperatures returned to positive ranges, spans normalized. Data recorded during these failures were flagged but not invalidated.
- * 30 hours of data were flagged for all gas analyzers due to daily IZS checks, resulting in the loss of one hour of data each day.
- * Quarterly calibration were performed on December 20, 2024.



WYAMZ Kerrobert Station - December 2024 Summary Report

Pollutants		Month Records		24 Hour Records				1 Hour Records			
Name	Unit	Average Concentration	Uptime	Maximum		SAAQS Objective	Exceed Days	Maximum		SAAQS Objective	Exceed Hours
				Conc.	Date			Conc.	Date and Time		
SO ₂	ppb	0	41.0%	0.02	21-Dec	48	0	0.2	12/21/2024 4:00 PM	172	0
H ₂ S	ppb	0.2	85.5%	0.37	6-Dec	3.6	0	1.67	12/19/2024 1:00 AM	11	0
PM _{2.5}	µg/m ³	5.9	99.3%	13.32	6-Dec	28	0	79.6	12/18/2024 7:00 PM	-	-

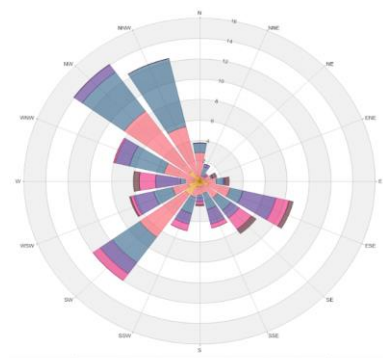
SAAQS: Saskatchewan Ambient Air Quality Standards



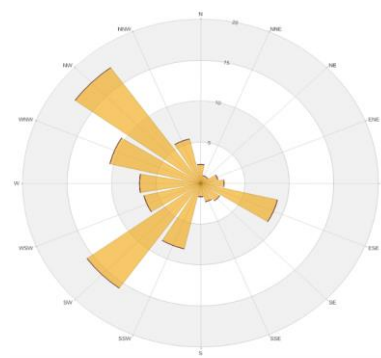
Exceedance Summary

24-hour Exceedance Information			Summary of other Parameters during Exceedance						
Pollutant	Date	Conc.	WS	WD	Precip.	SO ₂	H ₂ S	PM _{2.5}	

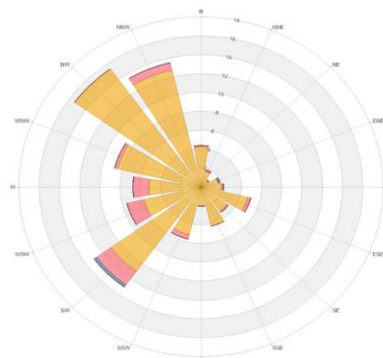
WYAMZ Kerrobert Station - December 2024 Summary Report



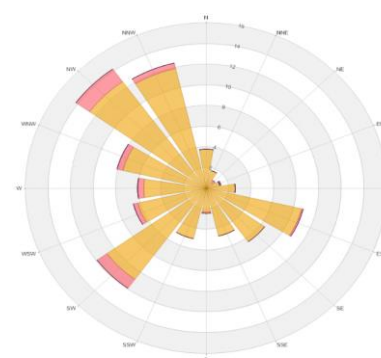
Wind Rose



Pollution Rose SO₂



Pollution Rose H₂S



Pollution Rose PM_{2.5}

Parameters	Unit	Color Code for Wind Speed and Pollutant Conc. Class					
Wind Speed	m/s	0.5 - 1.2	1.2 - 2.4	2.4 - 3.6	3.6 - 4.8	4.8 - 6.0	> 6.0
SO ₂	ppb	0.0-C-0.4	0.4-C-0.8	0.8-C-1.2	1.2-C-1.6	1.6-C-2.0	C > 2.0
H ₂ S	ppb	0.0-C-0.4	0.4-C-0.8	0.8-C-1.2	1.2-C-1.6	1.6-C-2.0	C > 2.0
PM _{2.5}	µg/m ³	0.0-C-14.0	14.0-C-28.0	28.0-C-42.0	42.0-C-56.0	56.0-C-70.0	C > 70.0

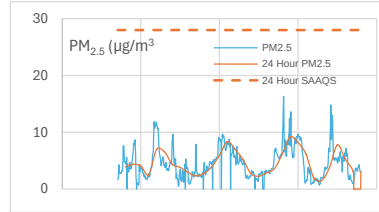
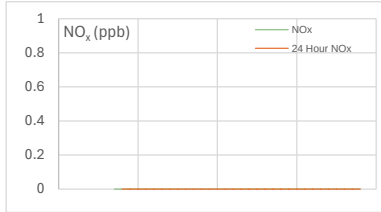
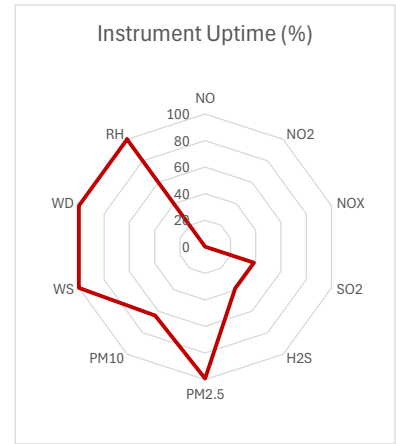
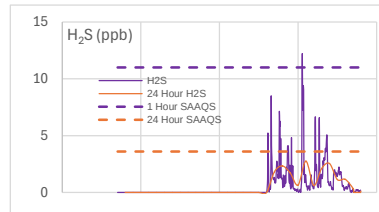
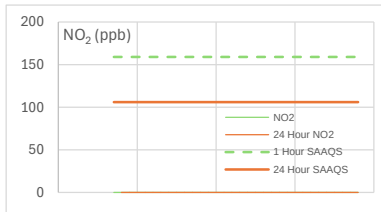
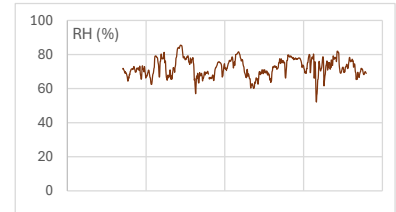
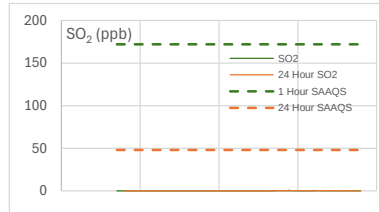
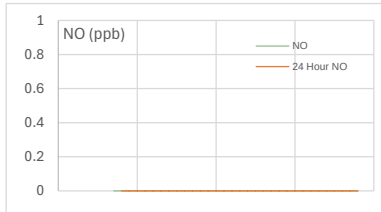
Monthly Update

- * All data has been zero drift, and baseline corrected, if any. Data may change after final validation process.
- * All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- * All compliance parameters were more than 90% operational for the month with the exception of SO₂ and H₂S analyzer.
- * 439 hours of data flagged as "analyzer malfunctioning" for SO₂ analyzer due to missing and flatlined data.
- * 108 hours of data flagged as "analyzer malfunctioning" for H₂S analyzer due to missing and flatlined data.
- * The analyzer pump for the H₂S and SO₂ analyzers was replaced on December 18, 2024.
- * One hour of data were flagged for all gas analyzers due to daily IZS checks, resulting in the loss of one hour of data each day.

WYAMZ Maidstone Station - December 2024 Summary Report

Pollutants		Month Records		24 Hour Records				1 Hour Records			
Name	Unit	Average Concentration	Uptime	Maximum		SAAQS Objective	Exceed Days	Maximum		SAAQS Objective	Exceed Hours
				Conc.	Date			Conc.	Date and Time		
NO	ppb	No Data	0.0%	0.00	-	-	-	No Data	-	-	-
NO ₂	ppb	No Data	0.0%	0.00	-	106	0	No Data	-	159	0
NO _x	ppb	No Data	0.0%	0.00	-	-	-	No Data	-	-	-
SO ₂	ppb	0.2	38.6%	0.3	22-Dec	48	0	1.0	12/22/2024 22:00	172	0
H ₂ S	ppb	1.4	38.6%	2.8	24-Dec	3.6	0	12.2	12/24/2024 13:00	11	1
PM _{2.5}	µg/m ³	4.6	99.2%	9.2	22-Dec	28	0	37.9	07/11/2024 20:00	-	-

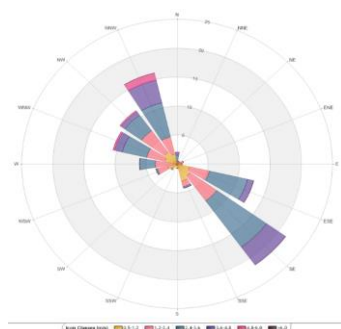
SAAQS: Saskatchewan Ambient Air Quality Standards



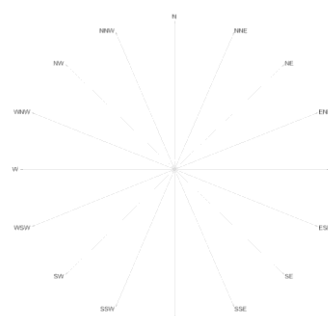
Exceedance Summary

Exceedance Information			Summary of other Parameters during Exceedance							
Pollutant	Date	Conc.	WS	WD	Precip.	NO	NO ₂	NO _x	SO ₂	PM _{2.5}
H ₂ S	12/24/2024 13:00	12.2	1.5	113	0.0	NoData	NoData	NoData	0.1	6.5

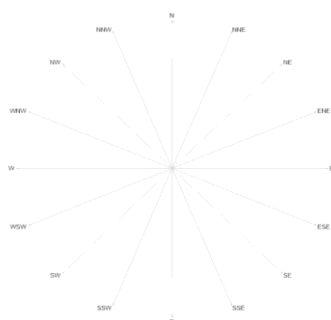
WYAMZ Maidstone Station - December 2024 Summary Report



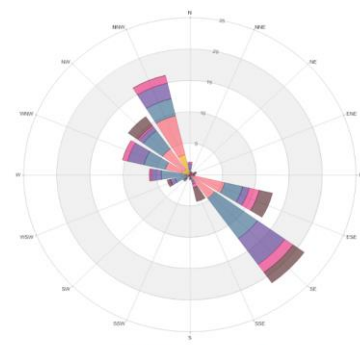
Wind Rose



Pollution Rose NO₂



Pollution Rose H₂S/SO₂



Pollution Rose PM_{2.5}

Parameters	Unit	Color Code for Wind Speed and Pollutant Conc. Class					
Wind Speed	m/s	0.5 - 1.2	1.2 - 2.4	2.4 - 3.6	3.6 - 4.8	4.8 - 6.0	WS > 6.0
NO ₂	ppb	N/A	N/A	N/A	N/A	N/A	N/A
SO ₂	ppb	N/A	N/A	N/A	N/A	N/A	N/A
H ₂ S	ppb	N/A	N/A	N/A	N/A	N/A	N/A
PM _{2.5}	µg/m ³	0.0-C-1.6	1.6-C-3.2	3.2-C-4.8	4.8-C-6.4	6.4-C-8.0	C > 8.0

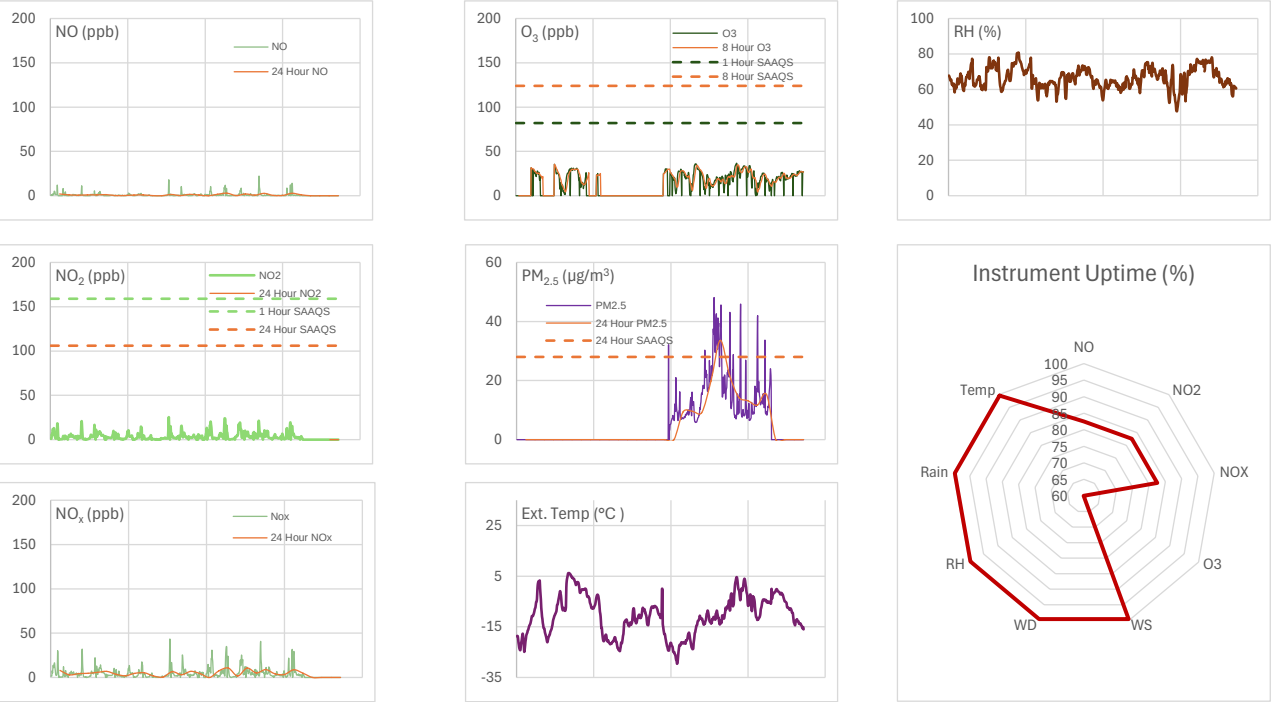
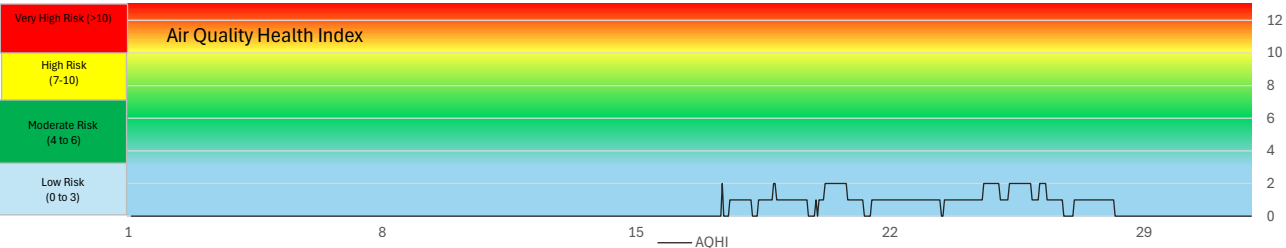
Monthly Update

- * All data has been zero drift, and baseline corrected, if any. Data may change after final validation process.
- * All compliance parameters were within the Saskatchewan Ambient Air Quality Standards except H₂S.
- * All compliance gas parameters were less than 90% operational for the month with the exception of PM_{2.5}.
- * The H₂S/SO₂ analyzer was reinstalled on December 17, 2024, following repairs..
- * 720 hours of data flagged as "analyzer malfunctioning" for NO₂ analyzer due to missing and flatlined data.
- * 457 hours of data flagged as "analyzer malfunctioning" for SO₂ and H₂S analyzers due to service and maintenance.
- * Quarterly calibrations were completed on December 18, 2024.



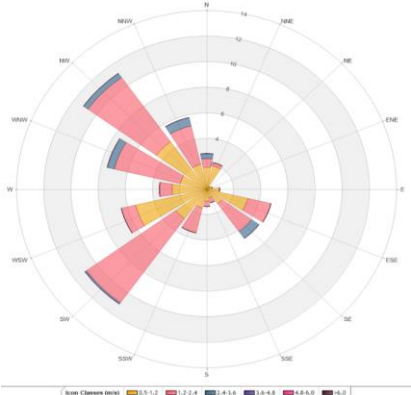
WYAMZ Meadow Lake Station - December 2024 Summary Report											
Pollutants		Month Records		24 Hour Records				1 Hour Records			
Name	Unit	Average Concentration	Uptime	Maximum		SAAQS Objective*	Exceed Days	Maximum		SAAQS Objective	Exceed Hours
				Conc.	Date			Conc.	Date and Time		
NO	ppb	1.1	82.5%	2.86	19-Dec	-	-	22.2	12/23/2024 11:00 AM	-	-
NO ₂	ppb	4.2	82.5%	8.61	21-Dec	106	0	25.4	12/13/2024 6:00 PM	159	0
NO _x	ppb	5.2	82.5%	10.61	19-Dec	-	-	43.4	12/13/2024 6:00 PM	-	-
O ₃	ppb	21.4	60.0%	35.50	5-Dec	124 (8 hours)	0	36.7	12/24/2024 7:00 PM	82	0
PM _{2.5}	µg/m ³	15.4	35.8%	33.60	22-Dec	28	1	48.1	12/22/2024 8:00 AM	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

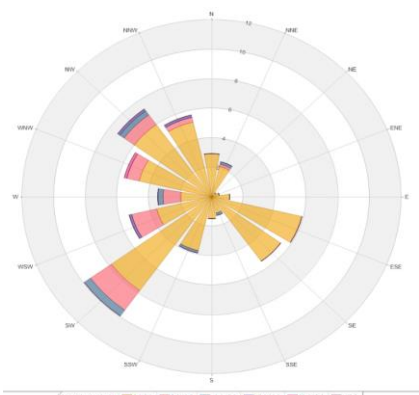


Exceedance Summary										
24-hour Exceedance Information			Summary of other Parameters during Exceedance							
Pollutant	Date	Conc.	WS	WD	Precip.	NO	NO ₂	NO _x	O ₃	PM _{2.5}
PM _{2.5}	22-Dec	33.60	0.4	168	0.0	0.6	4.4	5.1	15.6	33.6

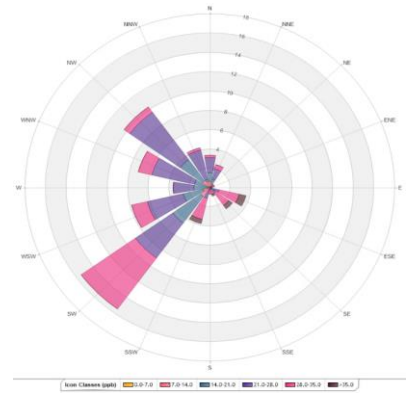
WYAMZ Meadow Lake Station - December 2024 Summary Report



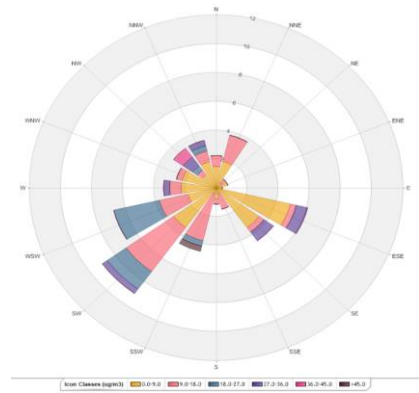
Wind Rose



Pollution Rose NO₂



Pollution Rose O₃



Pollution Rose PM_{2.5}

Parameters	Unit	Color Code for Wind Speed and Pollutant Conc. Class					
Wind Speed	m/s	0.5 - 1.2	1.2 - 2.4	2.4 - 3.6	3.6 -4.8	4.8 - 6.0	WS > 6.0
NO ₂	ppb	0.0-C-5.0	5.0-C-10.0	10.0-C-15.0	15.0-C-20.0	20.0-C-25.0	C > 25
O ₃	ppb	0.0-C-7.0	7.0-C-14.0	14.0-C-21.0	21.0-C-28.0	28.0-C-35.0	C > 35
PM _{2.5}	µg/m ³	0.0-C-9.0	9.0-C-18.0	18.0-C-27.0	27.0-C-36.0	35.0-C-45.0	C > 45

Monthly Update

- * All data has been zero drift, and baseline corrected, if any. Data may change after final validation process.
- * All compliance parameters were within the Saskatchewan Ambient Air Quality Standards except for PM_{2.5}.
- * All compliance parameters were less than 90% operational for the month.
- * 130 hours of data flagged as "analyzer malfunctioning" for NOx analyzer due to missing and flatlined data.
- * 278 hours of data flagged as "analyzer malfunctioning" for O₃ analyzer due to missing and flatlined data.
- * 478 hours of data flagged as "analyzer malfunctioning" for PM_{2.5} analyzer due to missing and flatlined data.
- * Quarterly calibrations were conducted on December 17, 2024.

