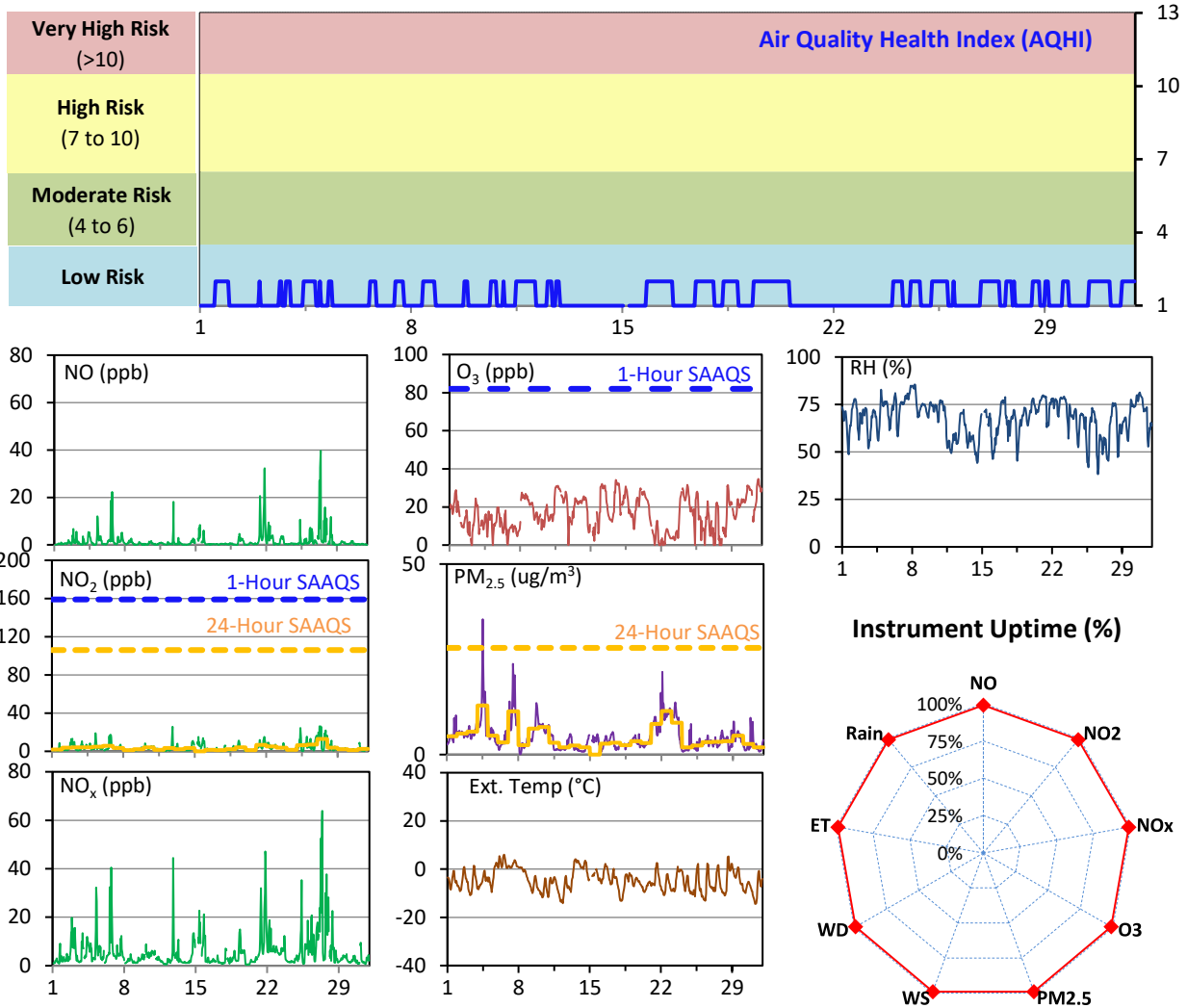


SESAA Esterhazy Station - December 2023 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	1.6	98.9%	8.4	Dec-27	-	-	39.7	Dec-27 09:00	-	-
NO ₂	ppb	3.8	98.9%	13.0	Dec-27	106	0	26.2	Dec-27 05:00	159	0
NO _x	ppb	5.6	98.9%	21.8	Dec-27	-	-	63.9	Dec-27 09:00	-	-
O ₃	ppb	16.8	98.9%	26.8	Dec-30	-	-	34.7	Dec-31 15:00	82	0
PM _{2.5}	ug/m3	4.7	98.9%	12.9	Dec-4	28	0	35.5	Dec-04 12:00	-	-

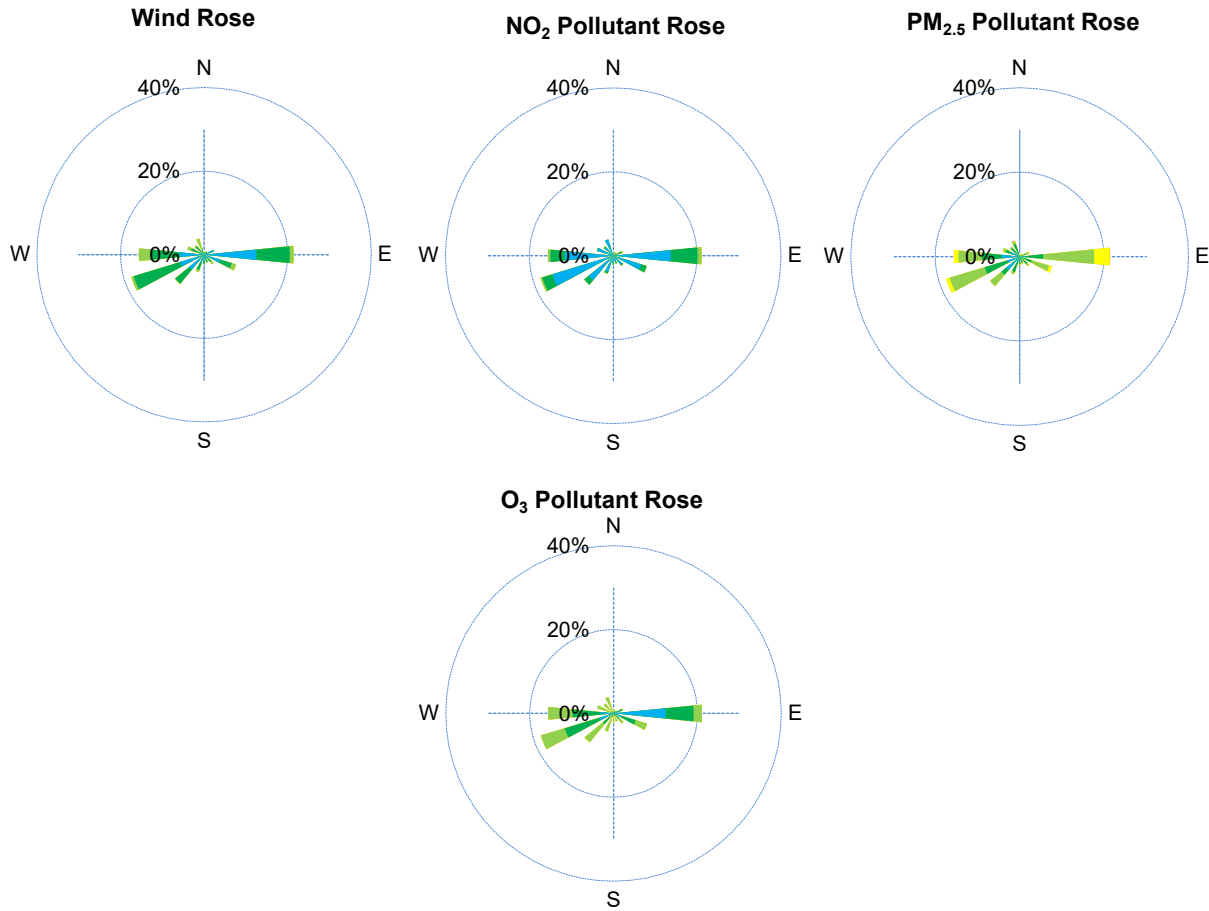
SAAQS: Saskatchewan Ambient Air Quality Standards



Monthly Update

- *All data has been slope, intercept, and baseline corrected. Data may change after validation process.
- *All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- *All compliance parameters were above 90% operational.
- *8 hours of data for the whole station is flagged as "analyzer failure" due to flatlined data.
- *Routine quarterly calibration was not completed due to new station calibration that occurred November 2, 2023.

SESAA Esterhazy Station - December 2023 Summary Report

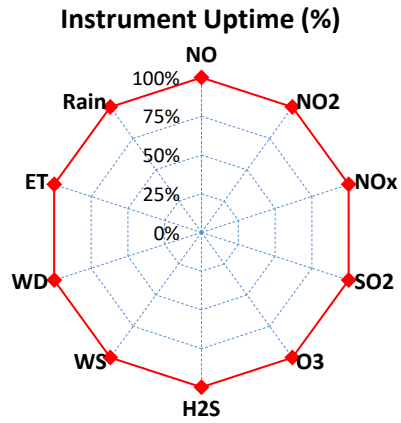
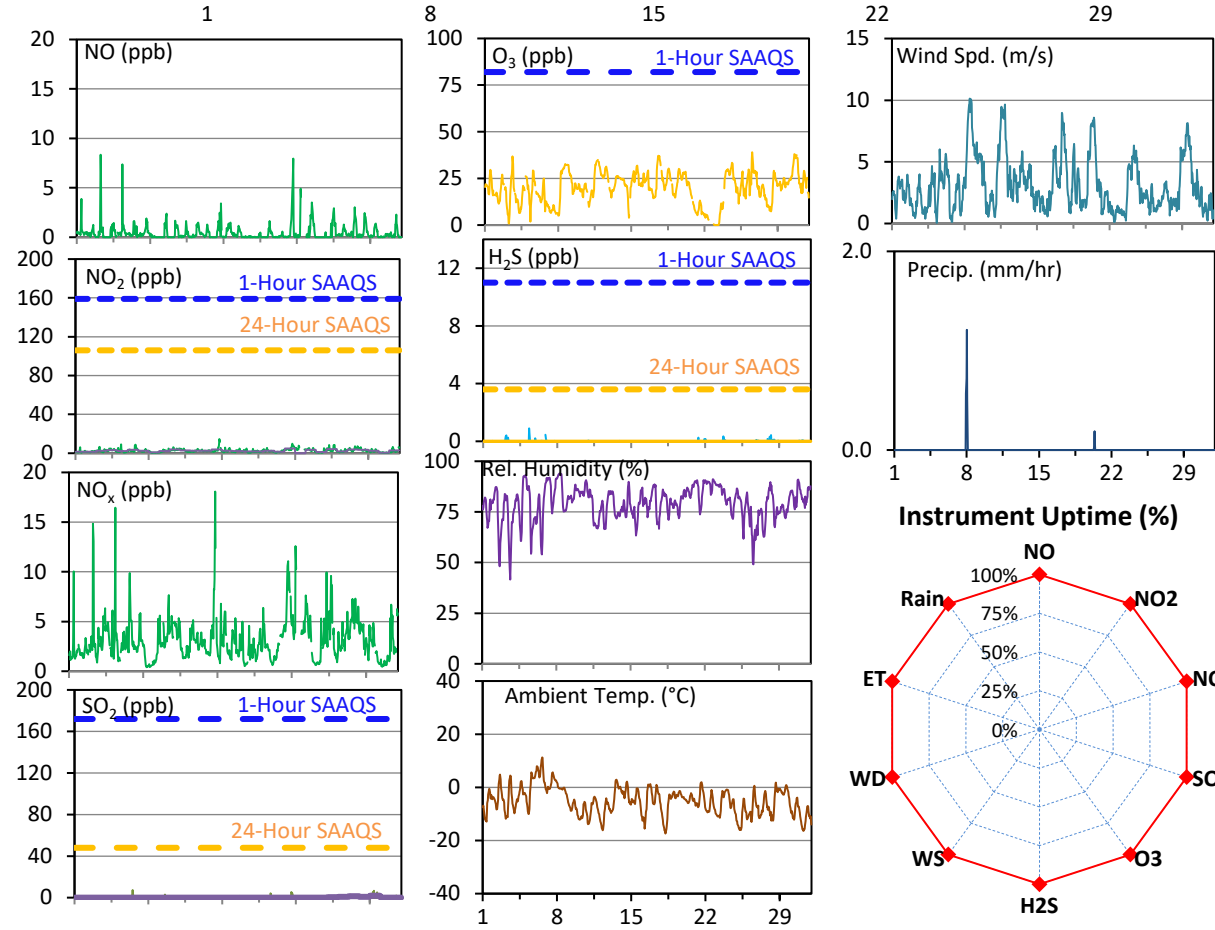
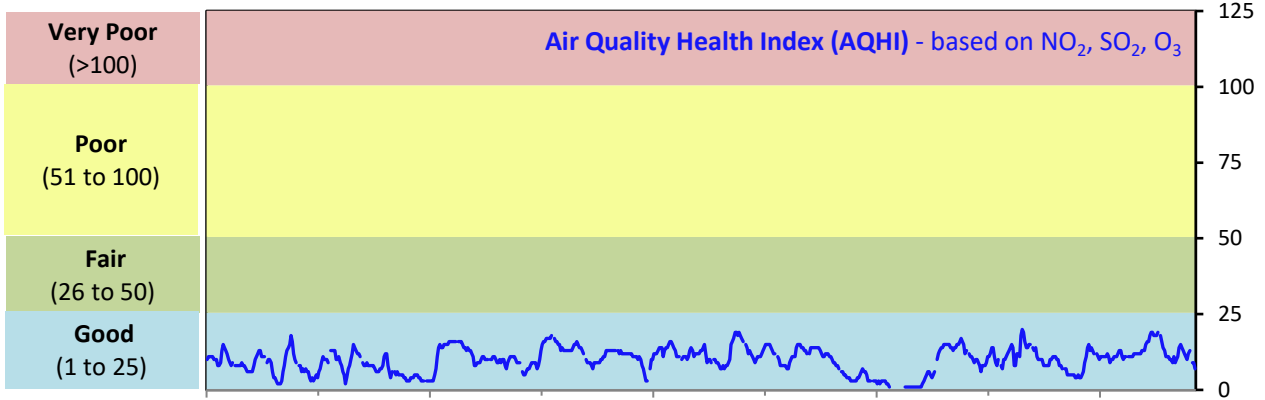


Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$
NO ₂	ppb	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C < 212$	$C \geq 212$
PM _{2.5}	ug/m ³	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$
O ₃	ppb	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$

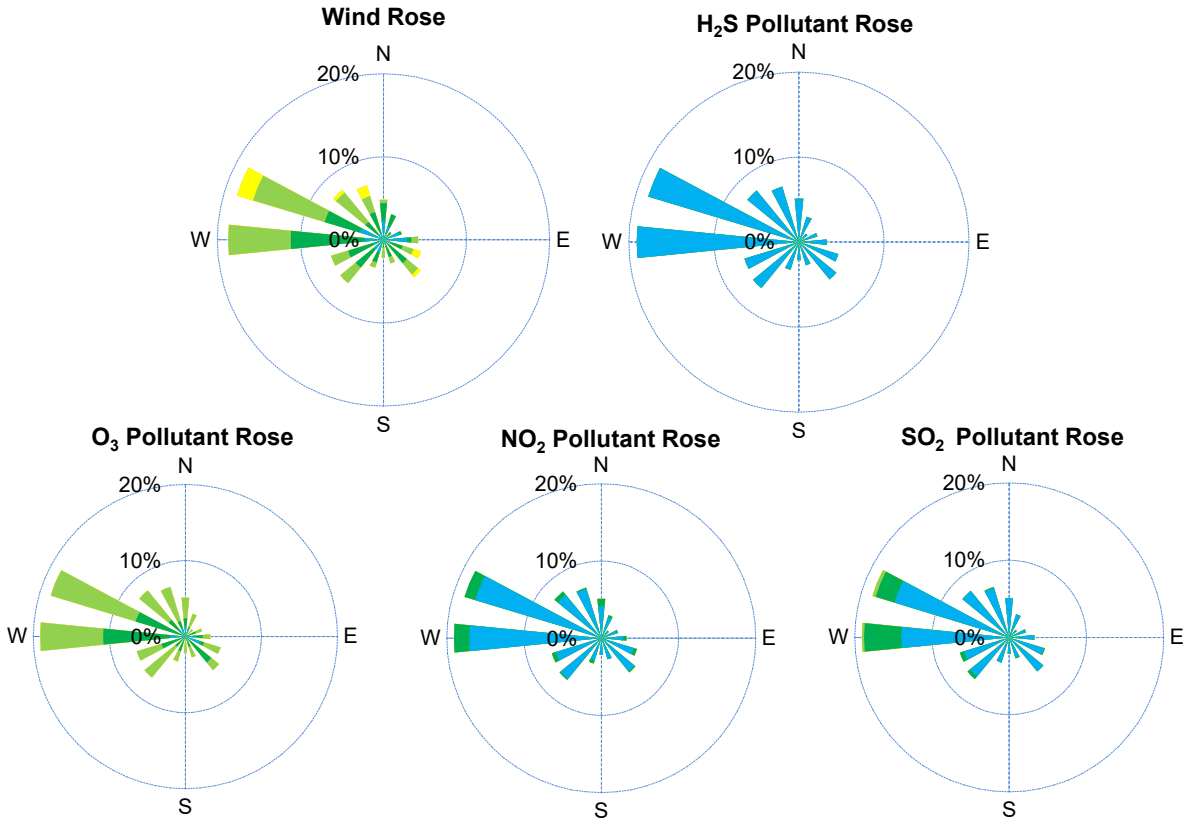
SESAA Glen Ewen Station - December 2023 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.5	100.0%	1.2	Dec-21	-	-	8.3	Dec-03 06:00	-	-
NO ₂	ppb	2.6	100.0%	4.9	Dec-21	106	0	14.6	Dec-14 18:00	159	0
NO _x	ppb	3.1	100.0%	6.1	Dec-21	-	-	18.1	Dec-14 18:00	-	-
SO ₂	ppb	0.3	100.0%	1.9	Dec-29	48	0	7.3	Dec-06 12:00	172	0
O ₃	ppb	20.1	100.0%	30.3	Dec-30	-	-	39.0	Dec-26 13:00	82	0
H ₂ S	ppb	< 0.1	100.0%	< 0.1	-	3.6	0	0.9	Dec-05 08:00	11	0

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Glen Ewen Station - December 2023 Summary Report



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
Wind Speed	m/s	0.3 ≤ WS < 1.4	1.4 ≤ WS < 3.1	3.1 ≤ WS < 7.8	7.8 ≤ WS < 10.8	10.8 ≤ WS < 13.6	WS ≥ 13.6	
SO ₂	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172	
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
O ₃	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82	
H ₂ S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8	

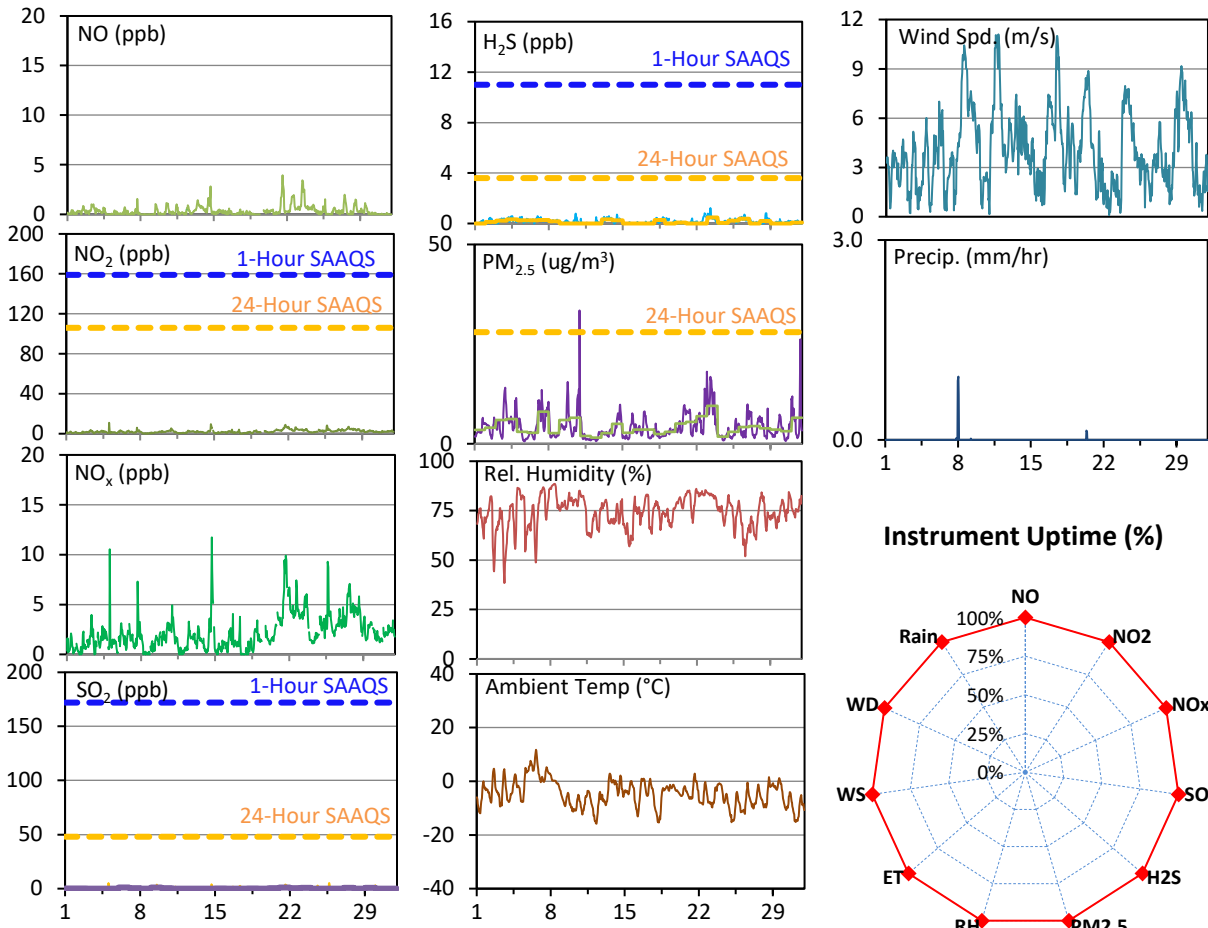
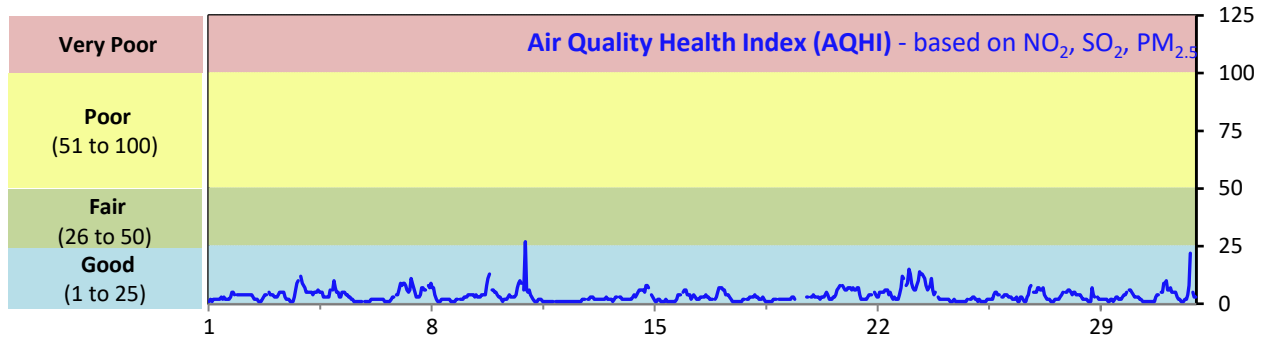
Monthly Update

- *All data has been slope, intercept, and baseline corrected. Data may change after validation process.
- *All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- *All compliance parameters were more than 90% operational.
- *Routine quarterly calibrations were completed on December 22.

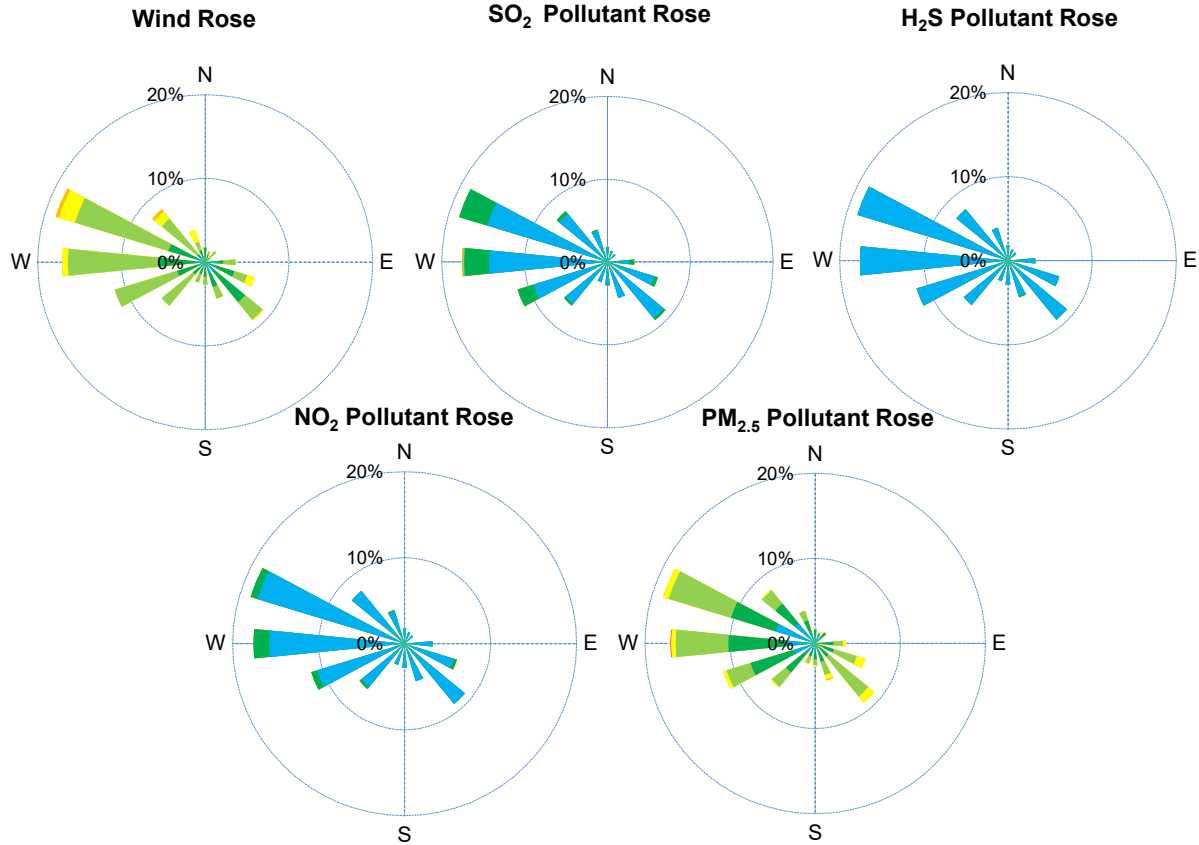
SESAA Oxbow Station - December 2023 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.4	100.0%	1.3	Dec-23	-	-	3.9	Dec-21 13:00	-	-
NO ₂	ppb	2.2	100.0%	4.9	Dec-21	106	0	10.9	Dec-05 01:00	159	0
NO _x	ppb	2.1	100.0%	5.6	Dec-21	-	-	11.7	Dec-14 16:00	-	-
SO ₂	ppb	0.4	100.0%	1.1	Dec-6	48	0	5.1	Dec-05 01:00	172	0
H ₂ S	ppb	0.2	100.0%	0.5	Dec-23	3.6	0	1.2	Dec-23 07:00	11	0
PM _{2.5}	ug/m3	4.3	100.0%	9.5	Dec-23	28	0	33.5	Dec-10 22:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Oxbow Station - December 2023 Summary Report



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
Wind Speed	m/s	0.3 ≤ WS < 1.4	1.4 ≤ WS < 3.1	3.1 ≤ WS < 7.8	7.8 ≤ WS < 10.8	10.8 ≤ WS < 13.6	WS ≥ 13.6	
SO ₂	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172	
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
H ₂ S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8	
PM _{2.5}	ug/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30	

Monthly Update

*All data has been slope, intercept, and baseline corrected. Data may change after validation process.

*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.

*All compliance parameters were greater than 90% operational.

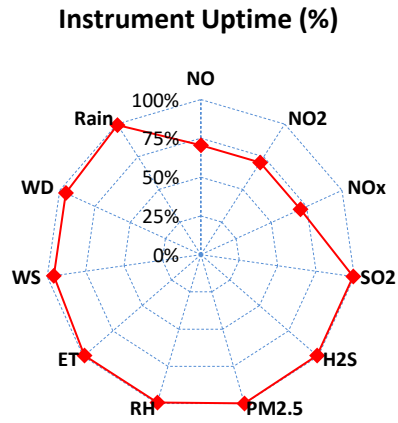
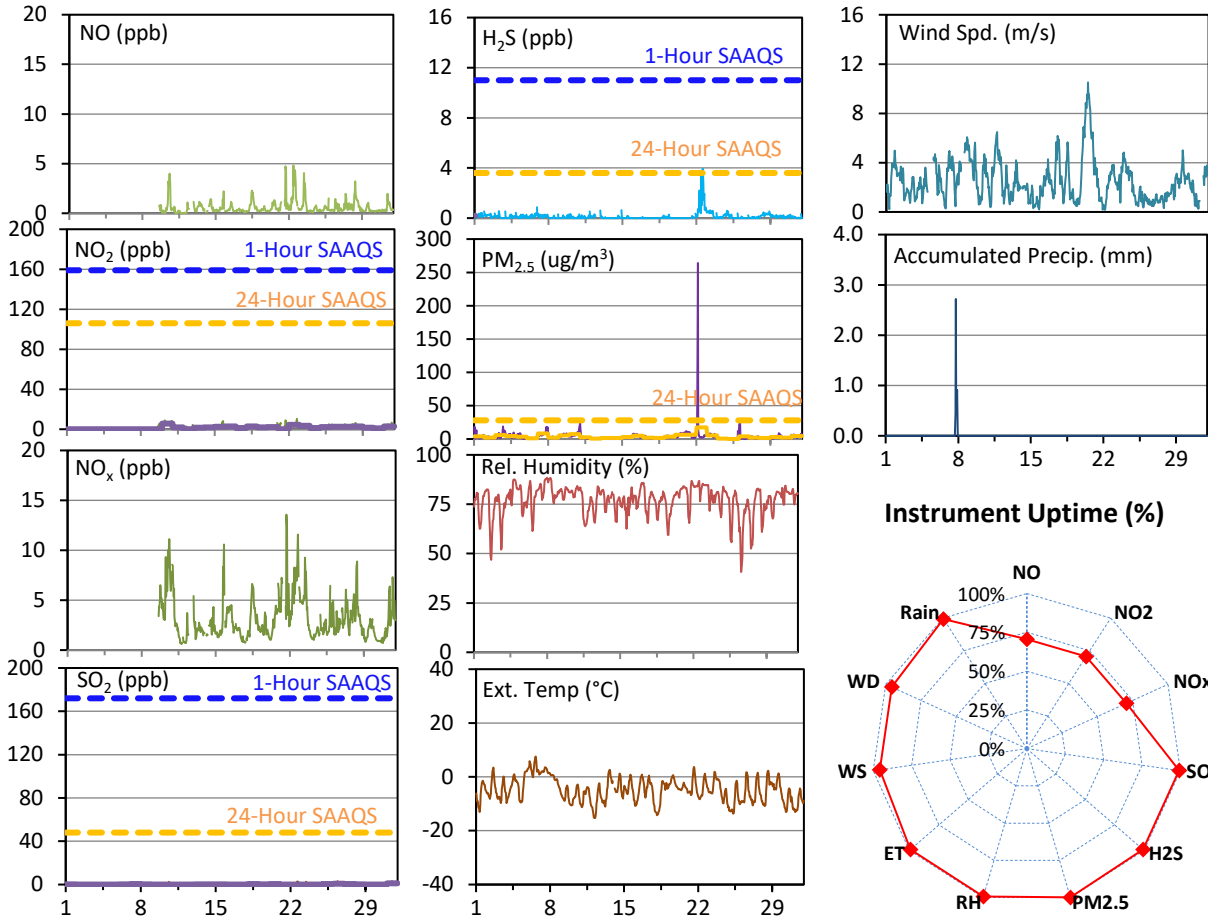
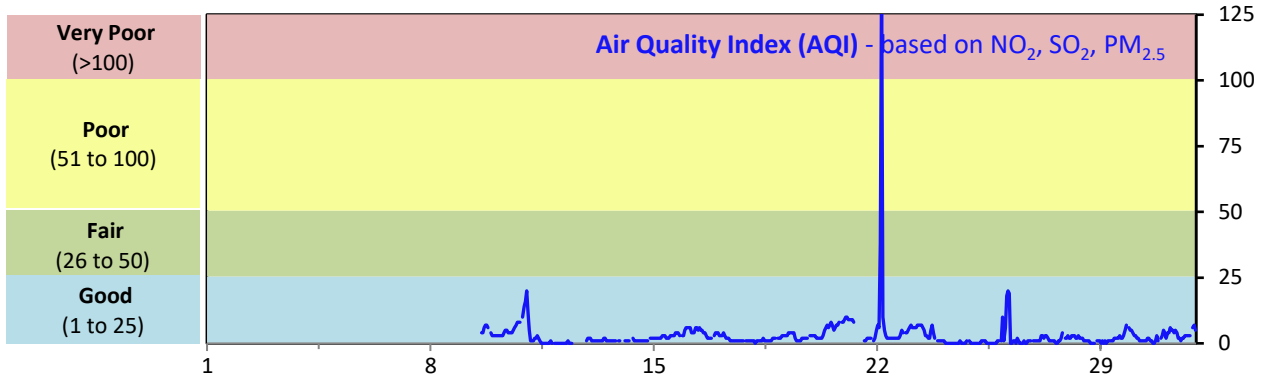
*Routine quarterly calibrations were completed on December 19, except for the PM_{2.5} analyzer.

*Routine quarterly calibrations for the PM_{2.5} analyzer is scheduled for January, 2024.

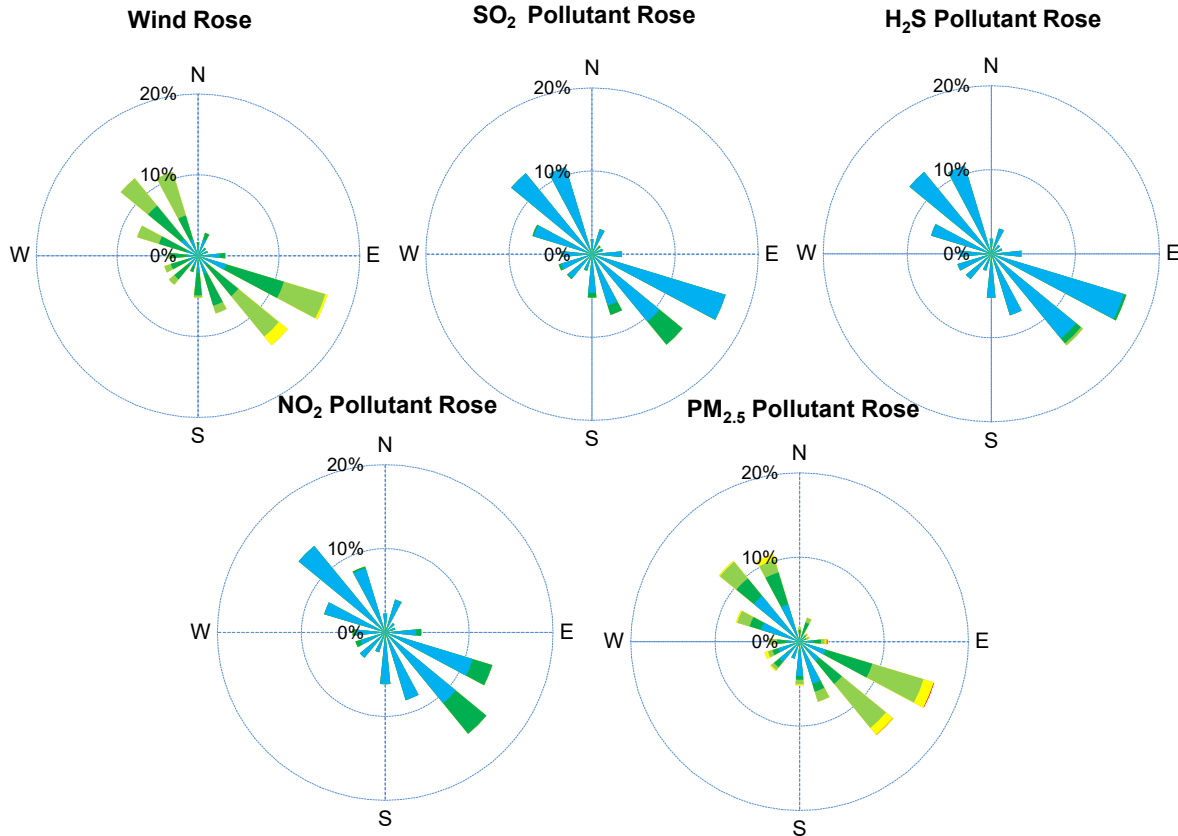
SESAA Stoughton Station - December 2023 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.6	70.6%	1.6	Dec-22	-	-	4.8	Dec-22 10:00	-	-
NO ₂	ppb	2.5	70.6%	5.6	Dec-10	106	0	10.4	Dec-22 18:00	159	0
NO _x	ppb	3.1	70.6%	6.7	Dec-10	-	-	13.6	Dec-21 16:00	-	-
SO ₂	ppb	0.3	99.2%	1.1	Dec-31	48	0	3.1	Dec-26 09:00	172	0
H ₂ S	ppb	0.1	99.2%	1.3	Dec-22	3.6	0	3.9	Dec-22 14:00	11	0
PM _{2.5}	ug/m3	3.9	99.9%	17.5	Dec-22	28	0	264.1	Dec-22 03:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Stoughton Station - December 2023 Summary Report



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$	
SO ₂	ppb	$0 \leq C < 1$	$1 \leq C < 5$	$5 \leq C < 10$	$10 \leq C < 57$	$57 \leq C < 172$	$C \geq 172$	
NO ₂	ppb	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C < 212$	$C \geq 212$	
H ₂ S	ppb	$0 \leq C < 1$	$1 \leq C < 3.6$	$3.6 \leq C < 5$	$5 \leq C < 8$	$8 \leq C < 10.8$	$C \geq 10.8$	
PM _{2.5}	ug/m ³	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

Monthly Update

*All data has been slope, intercept, and baseline corrected. Data may change after validation process.

*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.

*All compliance parameters were above 90% operational except NO/NO₂/NO_x.

*213 hours of data flagged as "maintenance" for NO/NO₂/NO_x for all of December due to analyzer maintenance from December 1 - 9 and analyzer data was affected by the calibration that occurred on December 12.

*1 - 5 hours of data flagged as "analyzer failure" for the whole station due to flatlined data and unusual spikes.

*32 hours of data flagged as "analyzer failure" for Windspeed and Wind direction due to flatlined data.

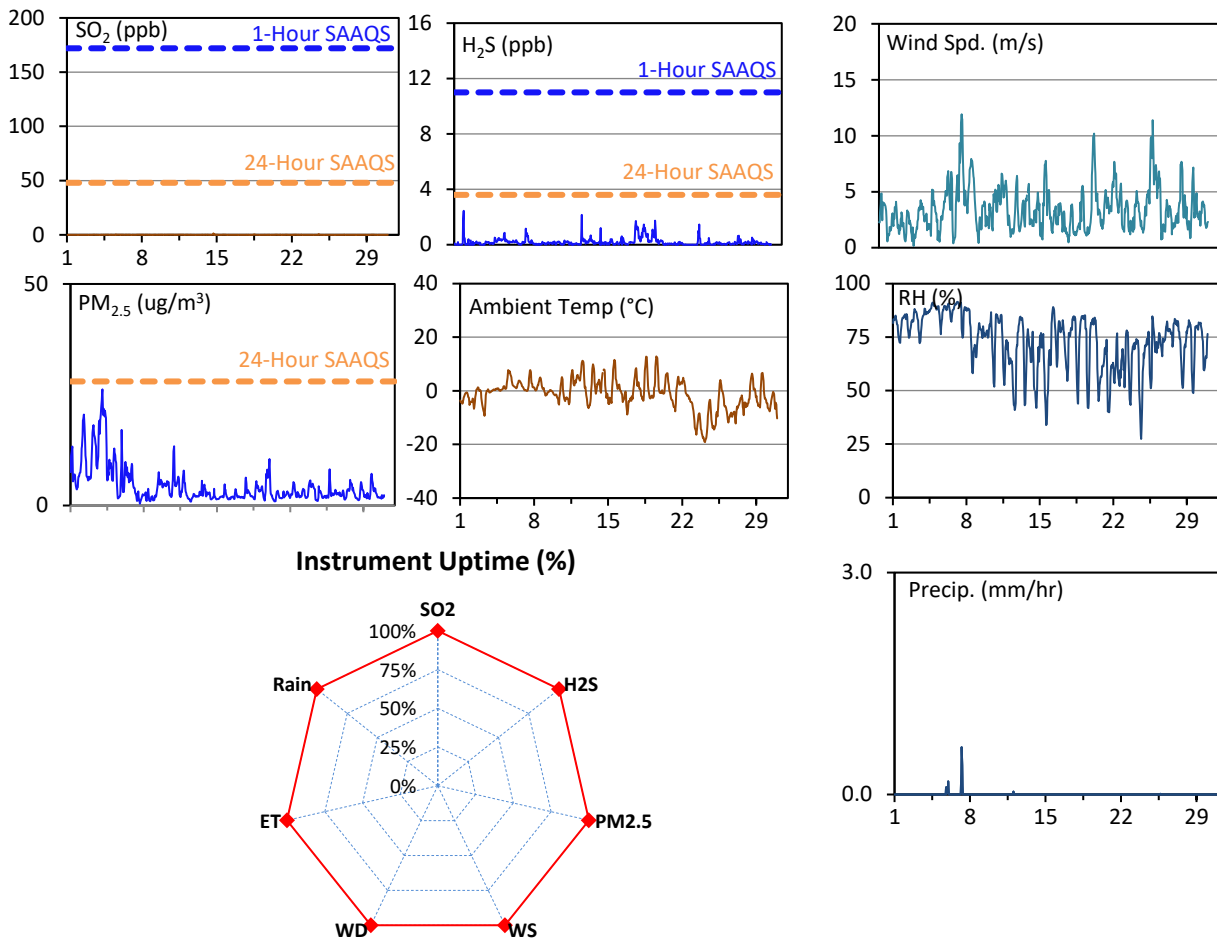
*1 - 5 hours of data flagged as "maintenance" for SO₂, H₂S, and PM_{2.5} due to the calibration that occurred on December 21.

*Routine quarterly calibrations were completed on December 12, 2023 for SO₂ and H₂S and on December 21, 2023 for NO/NO₂/NO_x.

SESAA Torquay Station - December 2023 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
SO ₂	ppb	< 0.1	100.0%	0.4	Dec-3	48	0	1.3	Dec-14 16:00	172	0
H ₂ S	ppb	0.2	100.0%	1.2	Dec-7	3.6	0	2.4	Dec-01 21:00	11	0
PM _{2.5}	ug/m3	4.3	100.0%	6.5	Dec-9	28	0	26.2	Dec-04 01:00	-	-

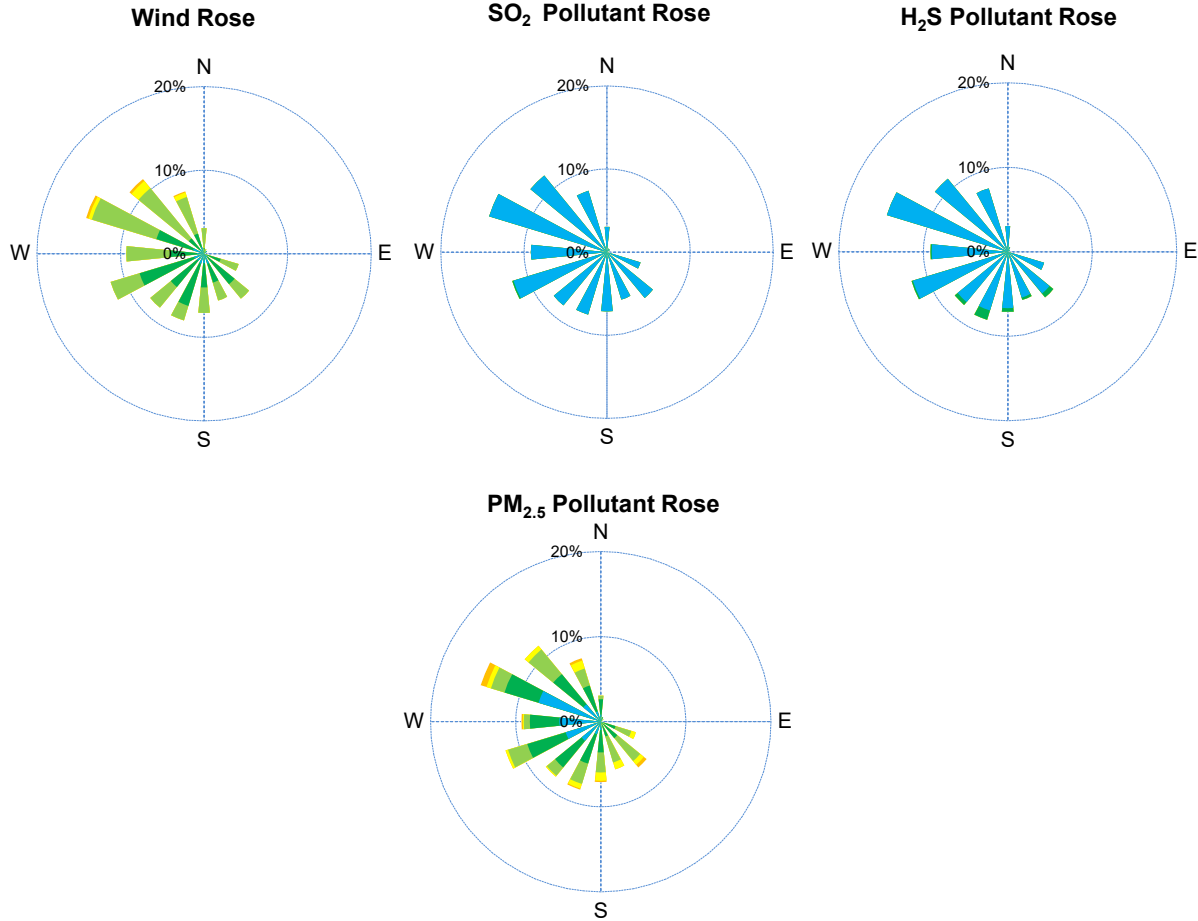
SAAQS: Saskatchewan Ambient Air Quality Standards



Monthly Update

- *All data has been slope, intercept, and baseline corrected. Data may change after validation process.
- *All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- *All compliance parameters had greater than 90% operational uptime.
- *Routine quarterly calibrations were completed on December 21, 2023.

SESAA Torquay Station - December 2023 Summary Report

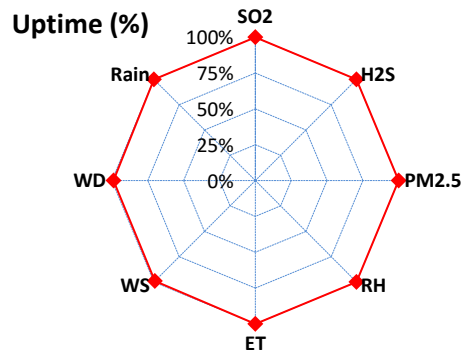
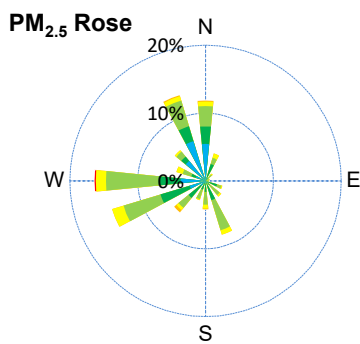
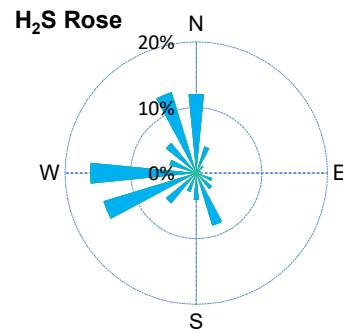
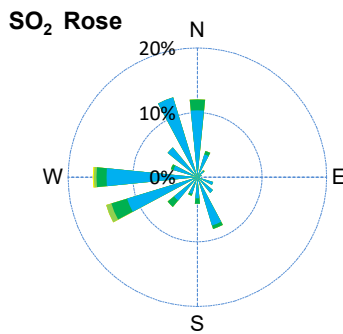
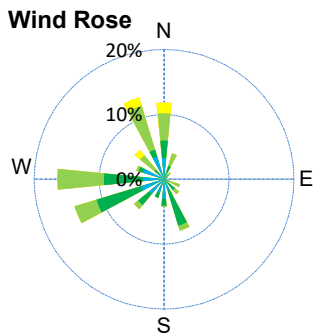
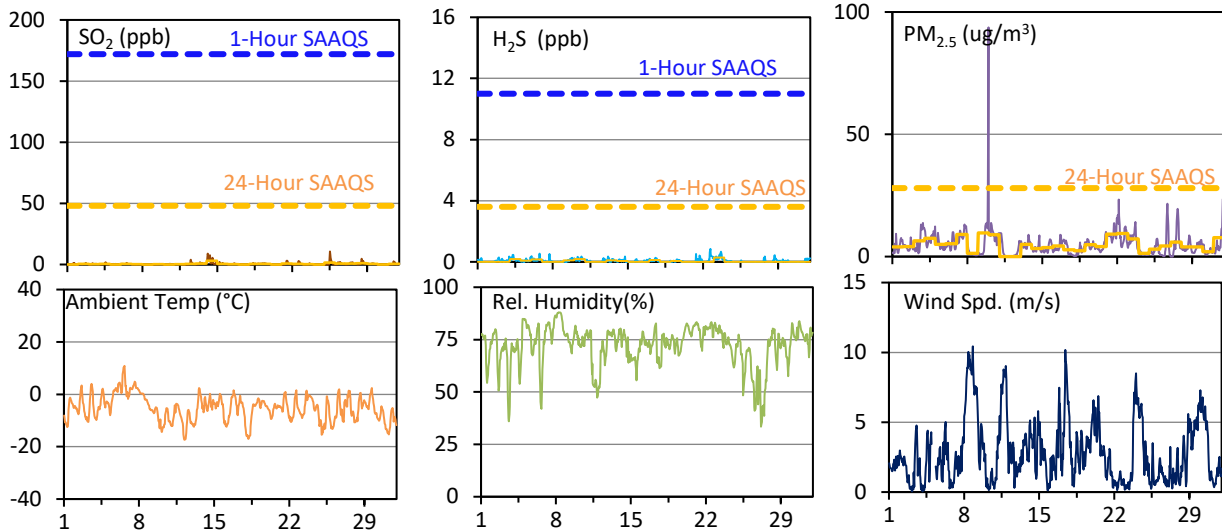


Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$
SO ₂	ppb	$0 \leq C < 1$	$1 \leq C < 5$	$5 \leq C < 10$	$10 \leq C < 57$	$57 \leq C < 172$	$C \geq 172$
NO ₂	ppb	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C < 212$	$C \geq 212$
O ₃	ppb	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$
H ₂ S	ppb	$0 \leq C < 1$	$1 \leq C < 3.6$	$3.6 \leq C < 5$	$5 \leq C < 8$	$8 \leq C < 10.8$	$C \geq 10.8$
PM _{2.5}	ug/m ³	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$

SESAA Wauchope Station - December 2023 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Objective	Exceed Days	Maximum		SAAQS Objective	Exceed Hours
				Conc.	Time			Conc.	Time		
SO ₂	ppb	0.5	100.0%	3.0	Dec-14	48	0	10.7	Dec-25 12:00	172	0
H ₂ S	ppb	0.1	100.0%	0.3	Dec-23	3.6	0	0.8	Dec-22 16:00	11	0
PM _{2.5}	ug/m3	5.0	100.0%	9.7	Dec-9	28	0	93.7	Dec-09 23:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Wauchope Station - September 2023 Summary Report

Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	m/s	0.3 ≤ WS < 1.4	1.4 ≤ WS < 3.1	3.1 ≤ WS < 7.8	7.8 ≤ WS < 10.8	10.8 ≤ WS < 13.6	WS ≥ 13.6
SO ₂	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172
H ₂ S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8
PM _{2.5}	ug/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30

Monthly Update
<p>*All data has been slope, intercept, and baseline corrected. Data may change after validation process.</p> <p>*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.</p> <p>*All compliance parameters were greater than 90% operational.</p> <p>*8 hours of data for Wind Speed and Wind Direction was flagged as "analyzer failure" due to flat lined data.</p> <p>*Routine quarterly calibrations are scheduled for January, 2024.</p>

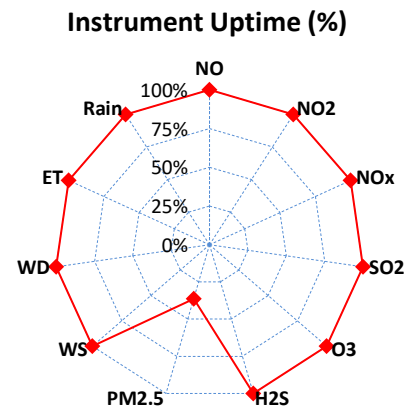
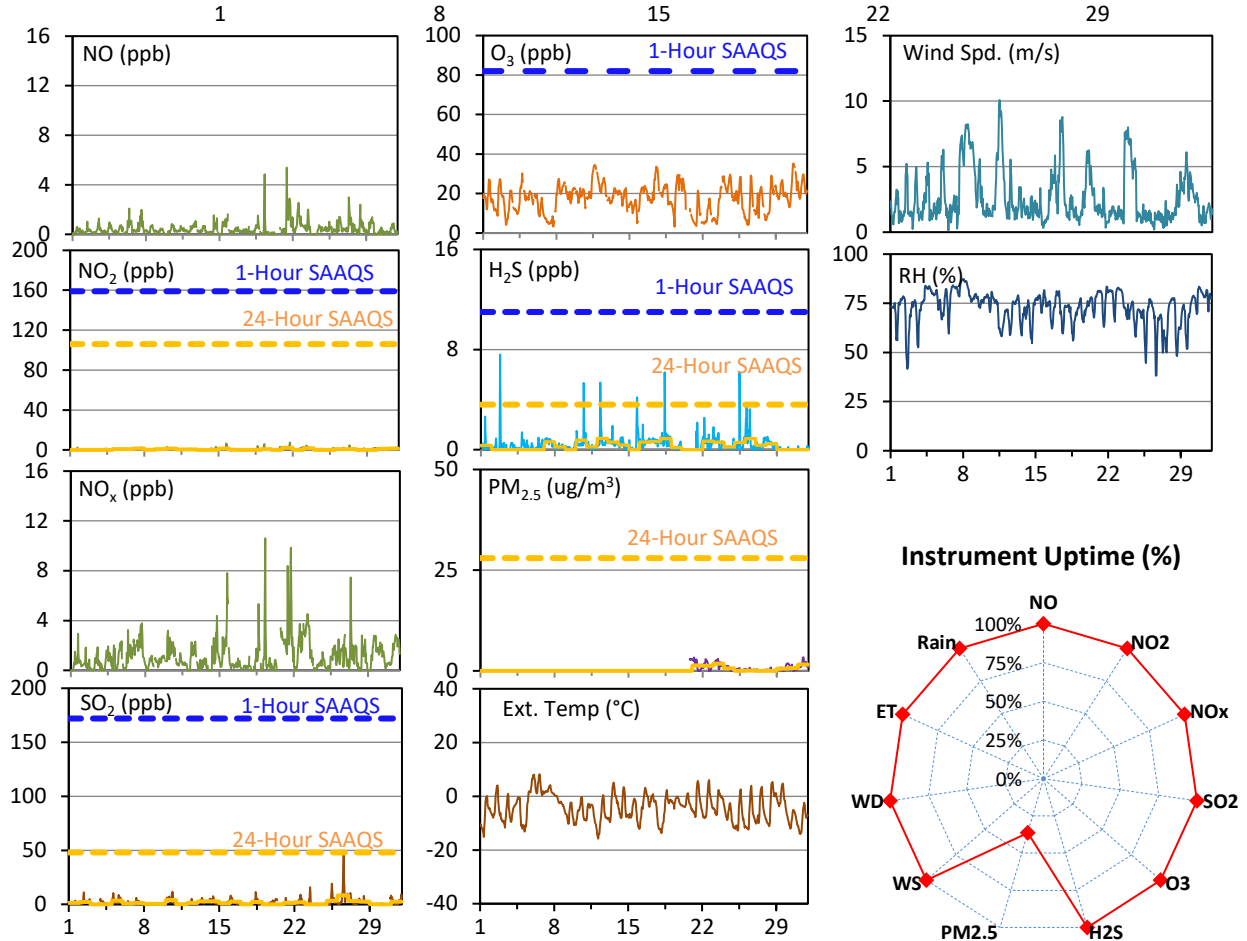
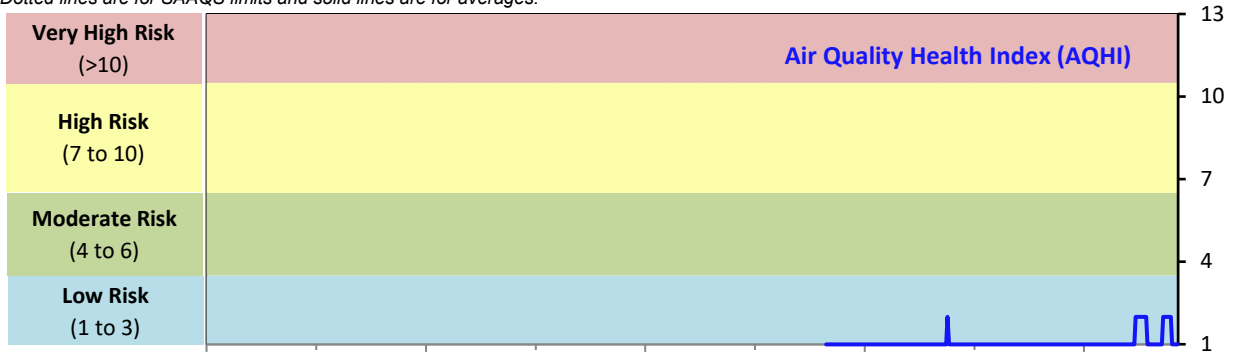
SESAA Weyburn Station - December 2023 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.4	100.0%	1.3	Dec-21	-	-	5.4	Dec-21 10:00	-	-
NO ₂	ppb	0.7	100.0%	2.1	Dec-21	106	0	7.3	Dec-21 17:00	159	0
NO _x	ppb	1.1	100.0%	3.4	Dec-21	-	-	10.6	Dec-19 07:00	-	-
SO ₂	ppb	1.8	100.0%	8.3	Dec-26	48	0	45.6	Dec-26 13:00	172	0
O ₃	ppb	17.8	100.0%	26.6	Dec-11	-	-	35.2	Dec-30 16:00	82	0
H ₂ S	ppb	0.4	100.0%	0.9	Dec-12	3.6	0	7.6	Dec-02 19:00	11	0
PM _{2.5}	ug/m3	0.9	36.3%	1.8	Dec-23	28	0	3.4	Dec-31 12:00	-	-

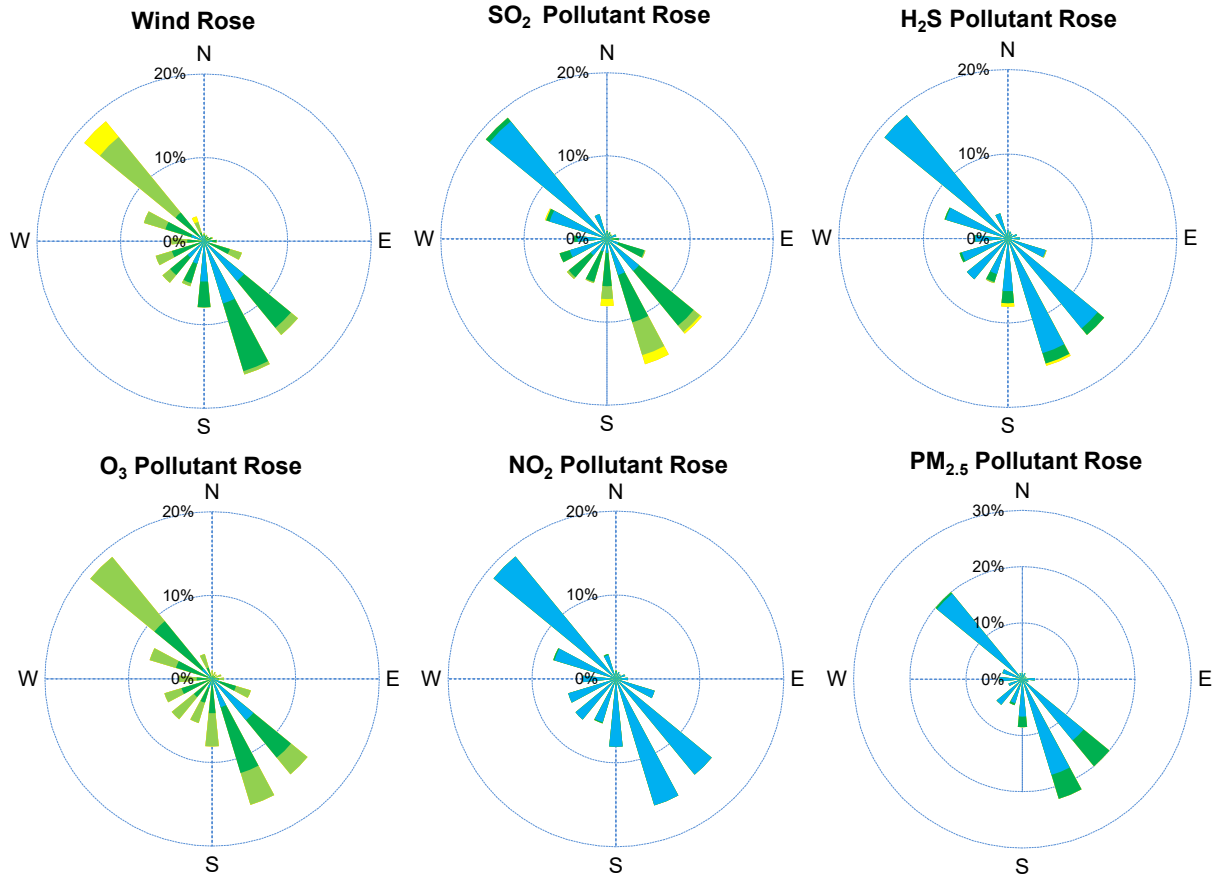
SAAQS: Saskatchewan Ambient Air Quality Standards

* Air Quality Standard refers to Saskatchewan Ambient Air Quality Standards (SAAQS).

* Dotted lines are for SAAQS limits and solid lines are for averages.



SESAA Weyburn Station - December 2023 Summary Report



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
		0.3 ≤ WS < 1.4	1.4 ≤ WS < 3.1	3.1 ≤ WS < 7.8	7.8 ≤ WS < 10.8	10.8 ≤ WS < 13.6	WS ≥ 13.6	
SO ₂	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172	
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
O ₃	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82	
H ₂ S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8	
PM _{2.5}	ug/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30	

Monthly Update

- *All data has been slope, intercept, and baseline corrected. Data may change after validation process.
- *All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- *All compliance parameters were above 90% operational, except PM 2.5.
- *474 hours of data for PM2.5 are flagged as "maintenance" as the station was taken out of service on September 1 and the station was not calibrated when repaired on November 15. PM2.5 data did not look valid until calibration occurred on December 20.
- *Routine calibrations occurred on December 20, 2023, which allowed for back validation of data for all parameters, except PM2.5.