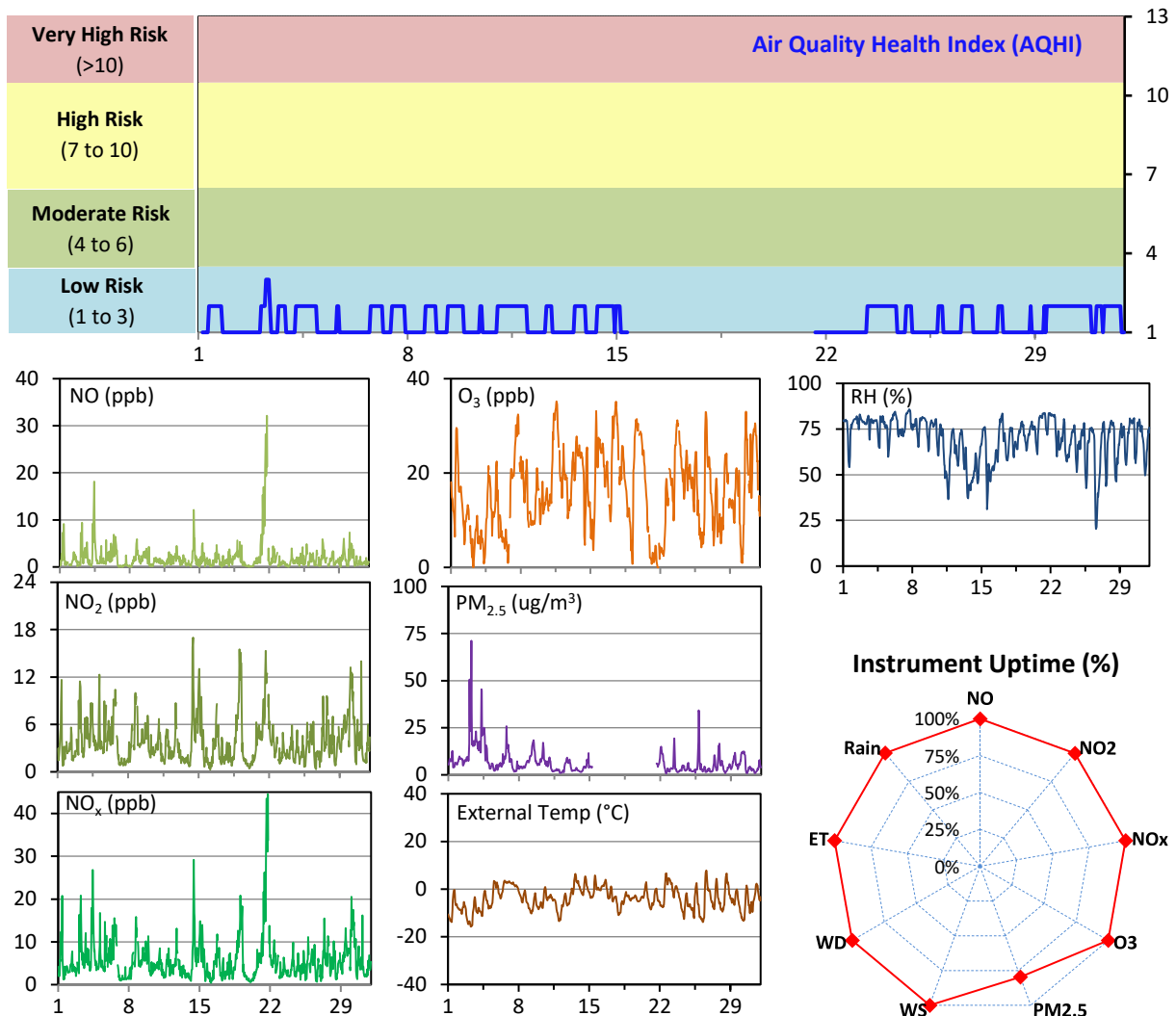


# WYAMZ Clavet Station - December 2023 Summary Report

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		
NO	ppb	1.9	99.9%	10.7	Dec-21	-	-	32.1	Dec-21 18:00	-	-
NO <sub>2</sub>	ppb	3.8	99.9%	7.7	Dec-21	106	0	17.0	Dec-14 10:00	159	0
NO <sub>x</sub>	ppb	5.7	99.9%	18.5	Dec-21	-	-	44.5	Dec-21 18:00	-	-
O <sub>3</sub>	ppb	16.2	100.0%	27.0	Dec-11	-	-	35.2	Dec-11 14:00	82	0
PM <sub>2.5</sub>	ug/m3	6.6	79.6%	22.0	Dec-3	28	0	71.2	Dec-03 06:00	-	-

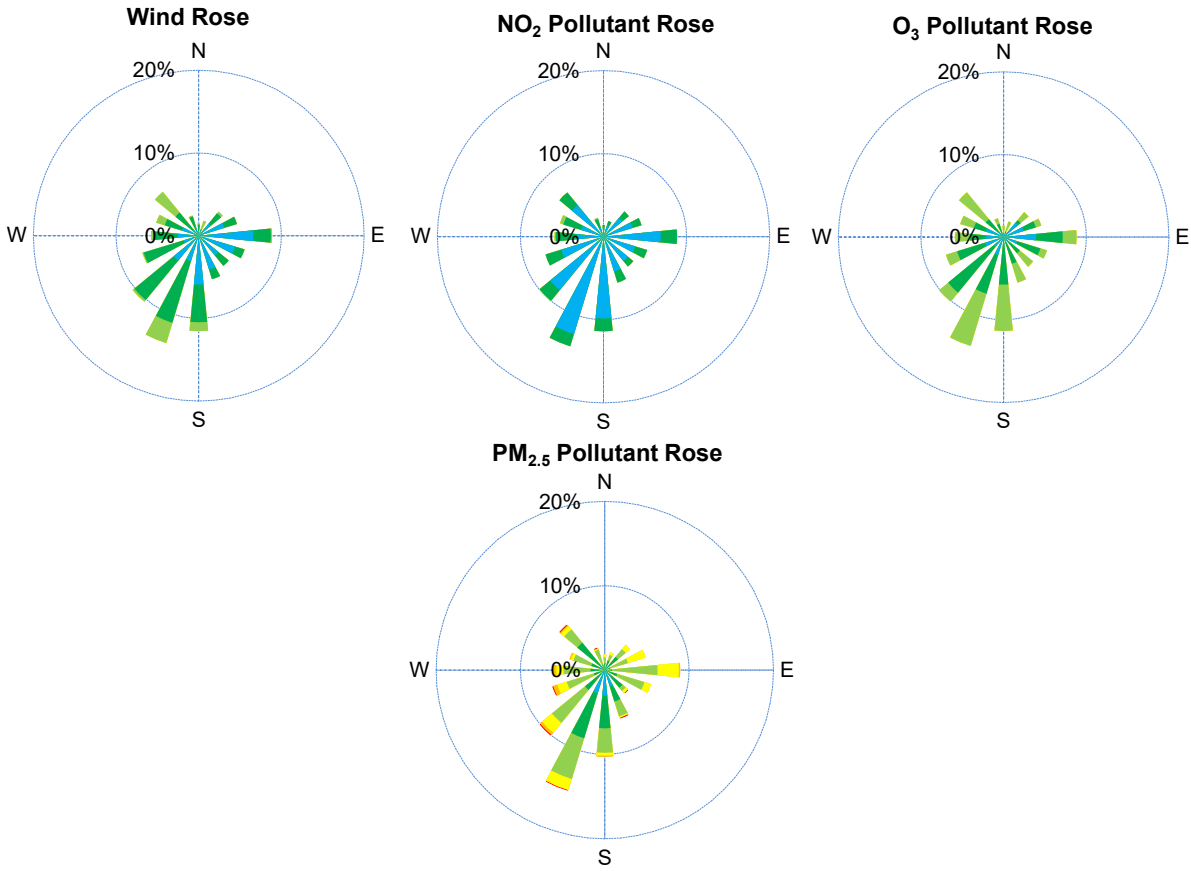
SAAQS: Saskatchewan Ambient Air Quality Standards



## 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 more than 90% operational for the month, except for PM<sub>2.5</sub>.
- \*1 hours of data flagged as "analyzer failure" for NO/NO<sub>2</sub>/NO<sub>x</sub> due to negative spikes that occurred on December 8.
- \*152 hours of data flagged as "analyzer failure" for PM<sub>2.5</sub> due to flatlined data that occurred from December 15 - 22.

# WYAMZ Clavet Station - December 2023 Summary Report



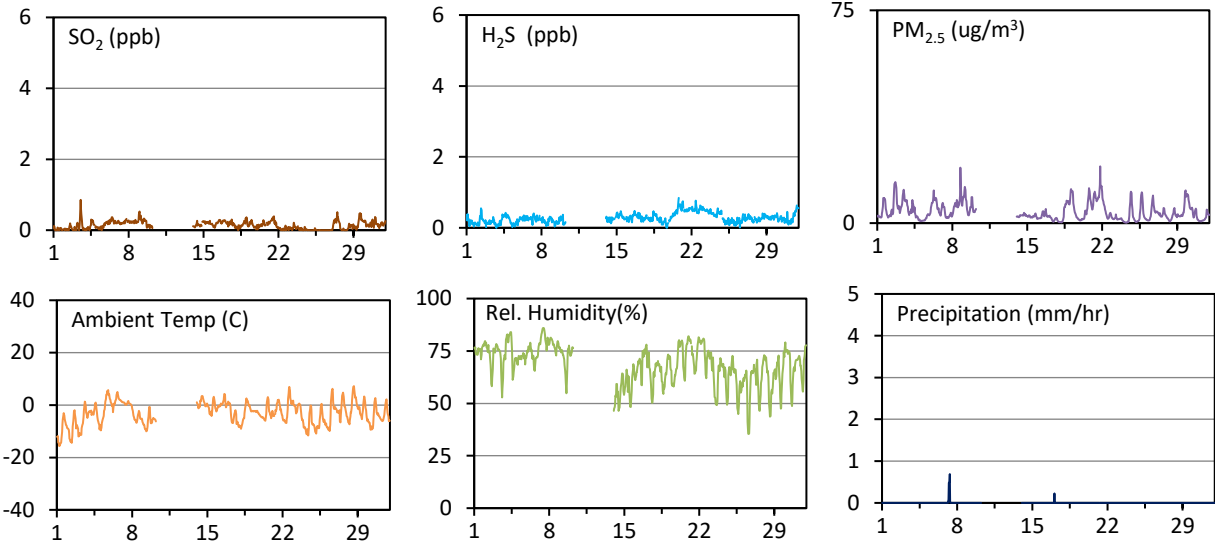
Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
Wind Speed	kph	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$	
NO <sub>2</sub>	ppb	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C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



# WYAMZ Kerrobert 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 <sub>2</sub>	ppb	-	87.2%	0.2	Dec-6	48	0	0.9	Dec-03 12:00	172	0
H <sub>2</sub> S	ppb	-	87.2%	0.5	Dec-21	3.6	0	0.8	Dec-20 19:00	11	0
PM <sub>2.5</sub>	ug/m3	4.1	87.8%	9.7	Dec-21	28	0	20.0	Dec-21 19:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

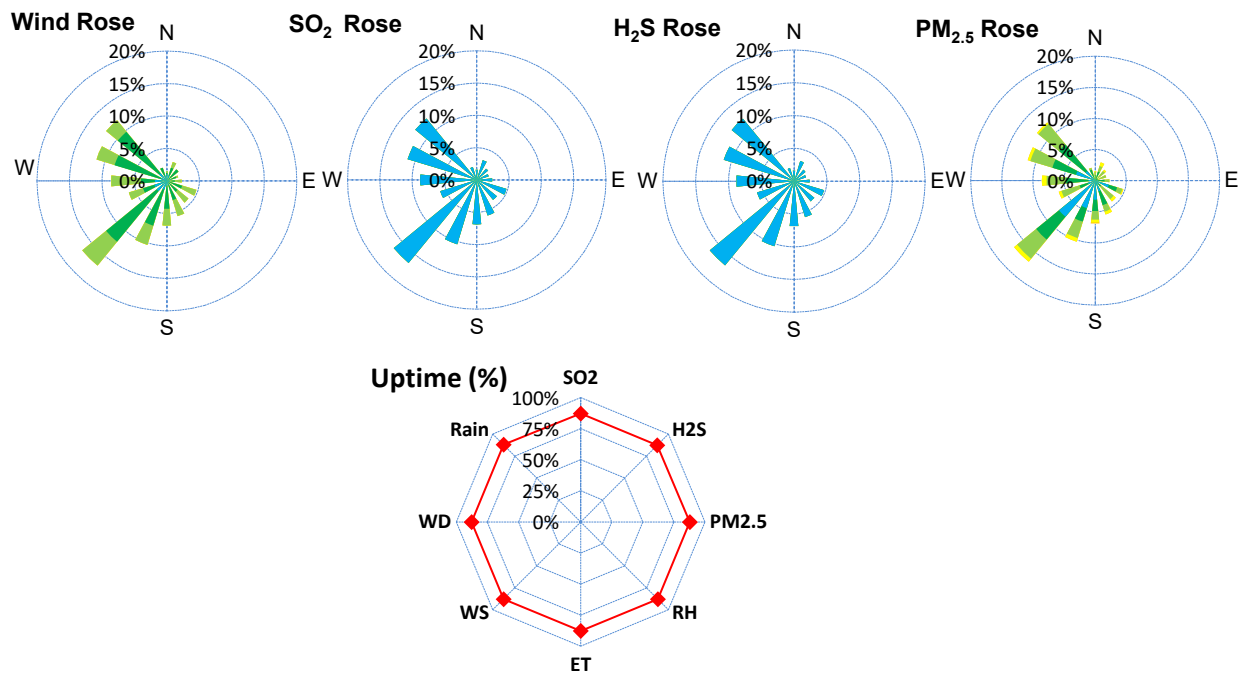


## Monthly Update

- \*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 less than 90% operational for the month.
- \* 91-92 hours of data for the whole station flagged as "analyzer failure" due to a station failure causing flatlined data from December 10 - 14.



# WYAMZ Kerrobert Station - December 2023 Summary Report



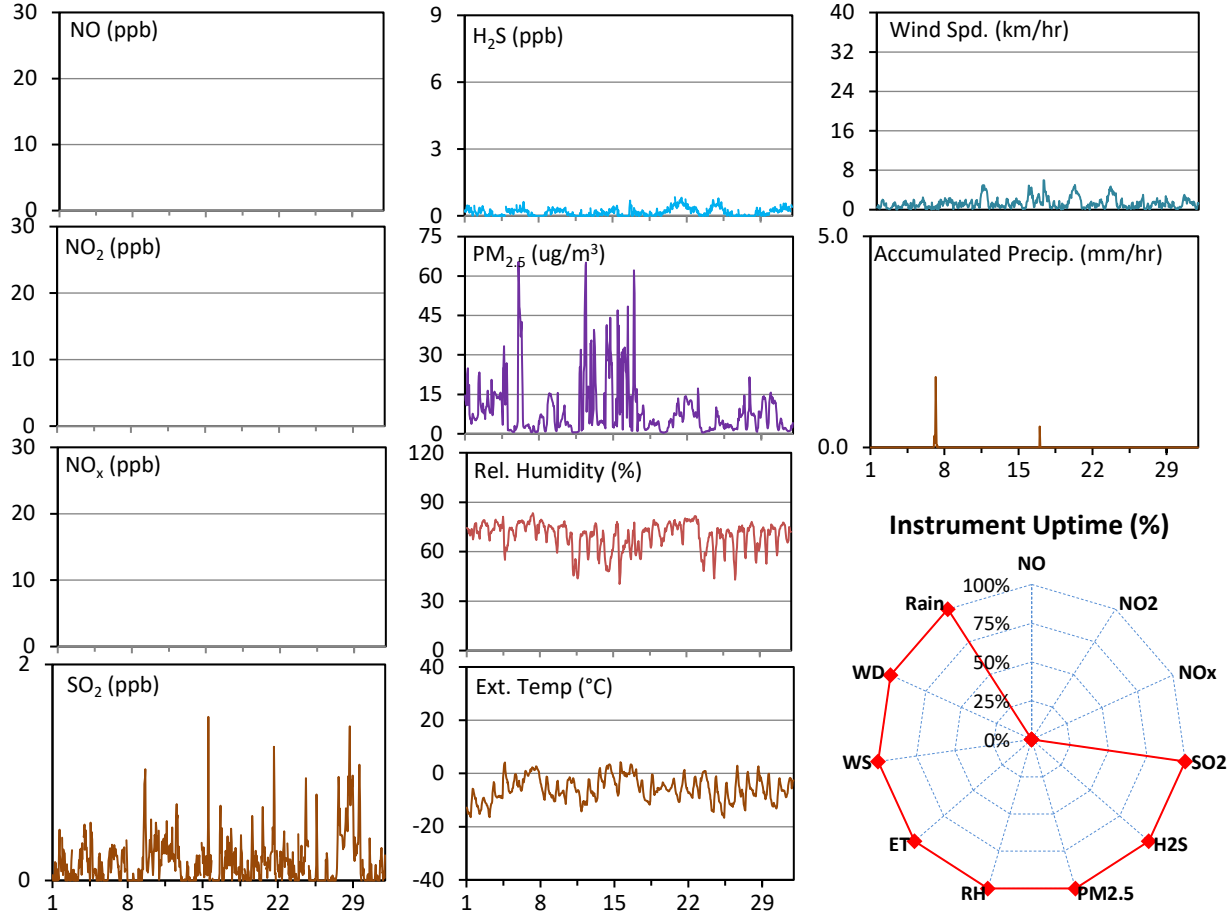
Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	kph	0.3 ≤ WS < 1.4	1.4 ≤ WS < 3.1	3.1 ≤ WS < 7.8	7.8 ≤ WS < 10.8	10.8 ≤ WS < 13.6	WS ≥ 13.6
SO <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172
H <sub>2</sub> S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6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



# WYAMZ Maidstone 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		
NO	ppb	-	0.0%	< 0.1	-	-	-	< 0.1	-	-	-
NO <sub>2</sub>	ppb	-	0.0%	< 0.1	-	106	0	< 0.1	-	159	0
NO <sub>x</sub>	ppb	-	0.0%	< 0.1	-	-	-	< 0.1	-	-	-
SO <sub>2</sub>	ppb	0.2	100.0%	0.7	Dec-28	48	0	1.5	Dec-15 12:00	172	0
H <sub>2</sub> S	ppb	0.2	100.0%	0.6	Dec-21	3.6	0	0.8	Dec-20 21:00	11	0
PM <sub>2.5</sub>	ug/m3	8.9	100.0%	22.2	Dec-12	28	0	65.4	Dec-06 01:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

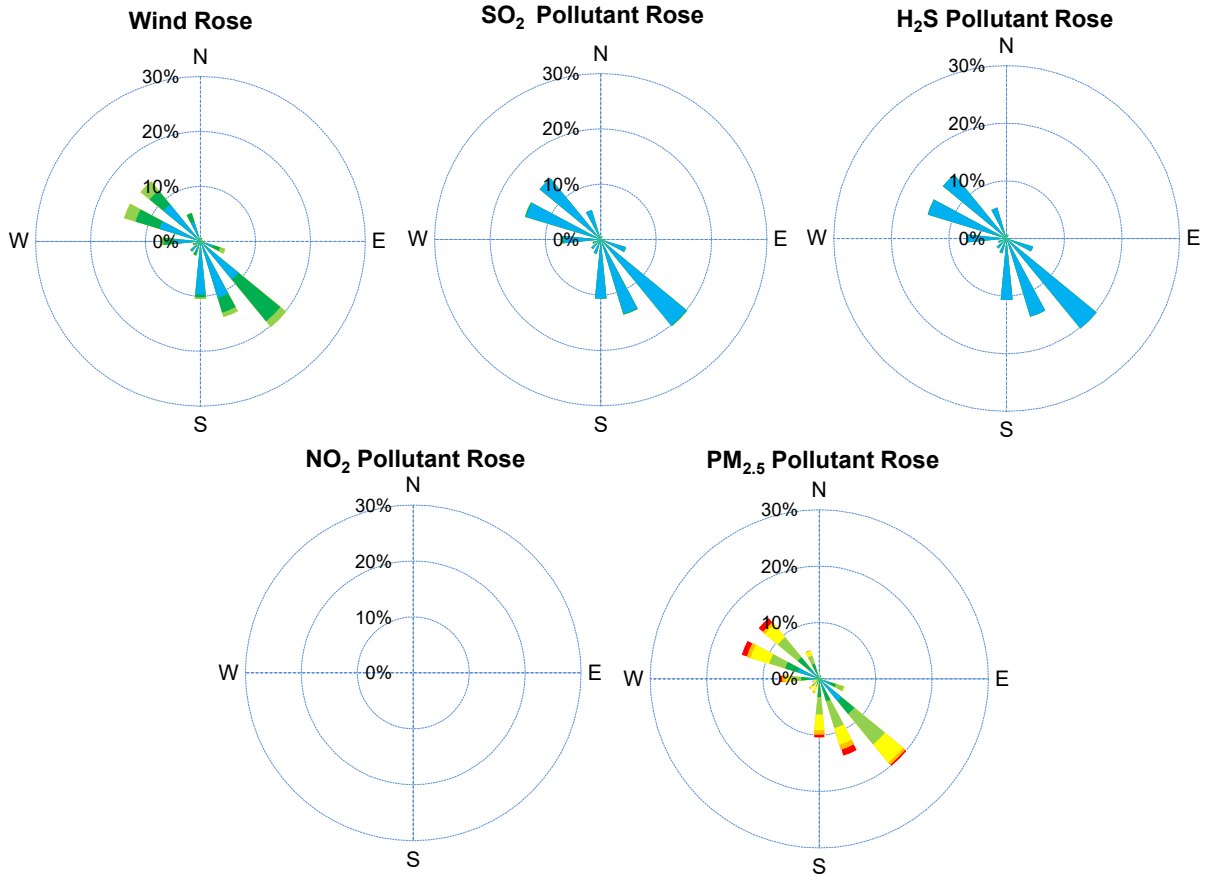


## Monthly Update

- \*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 were greater than 90% operational except NO/NO<sub>x</sub>/NO<sub>2</sub>.
- \*All NO/NO<sub>x</sub>/NO<sub>2</sub> data was flagged as "analyzer failure" due to the removal of the analyzer from service on August 24th, 2023.



# WYAMZ Maidstone Station - December 2023 Summary Report

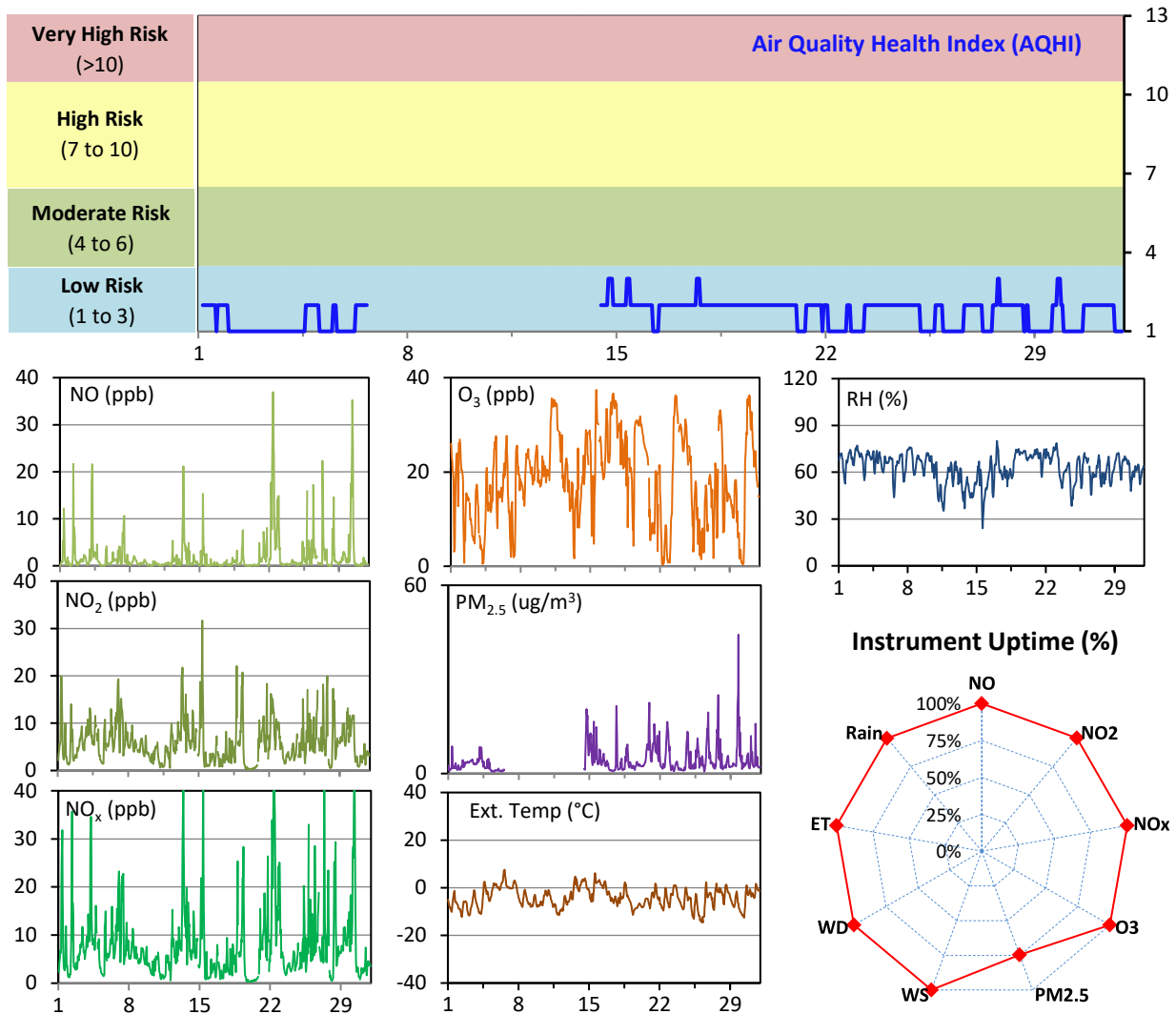


Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
Wind Speed	kph	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$	
SO <sub>2</sub>	ppb	$0 \leq C < 1$	$1 \leq C < 5$	$5 \leq C < 10$	$10 \leq C < 57$	$57 \leq C < 172$	$C \geq 172$	
NO <sub>2</sub>	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 <sub>2</sub> 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 <sub>2.5</sub>	ug/m <sup>3</sup>	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

# WYAMZ Meadow Lake City 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		
NO	ppb	2.0	100.0%	11.7	Dec-22	-	-	36.9	Dec-22 09:00	-	-
NO <sub>2</sub>	ppb	5.8	100.0%	11.1	Dec-13	106	0	31.7	Dec-15 08:00	159	0
NO <sub>x</sub>	ppb	7.8	100.0%	21.9	Dec-22	-	-	50.7	Dec-22 09:00	-	-
O <sub>3</sub>	ppb	18.5	100.0%	33.0	Dec-17	-	-	37.4	Dec-15 14:00	82	0
PM <sub>2.5</sub>	ug/m3	4.3	74.6%	8.3	Dec-29	28	0	44.3	Dec-29 18:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



## Monthly Update

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

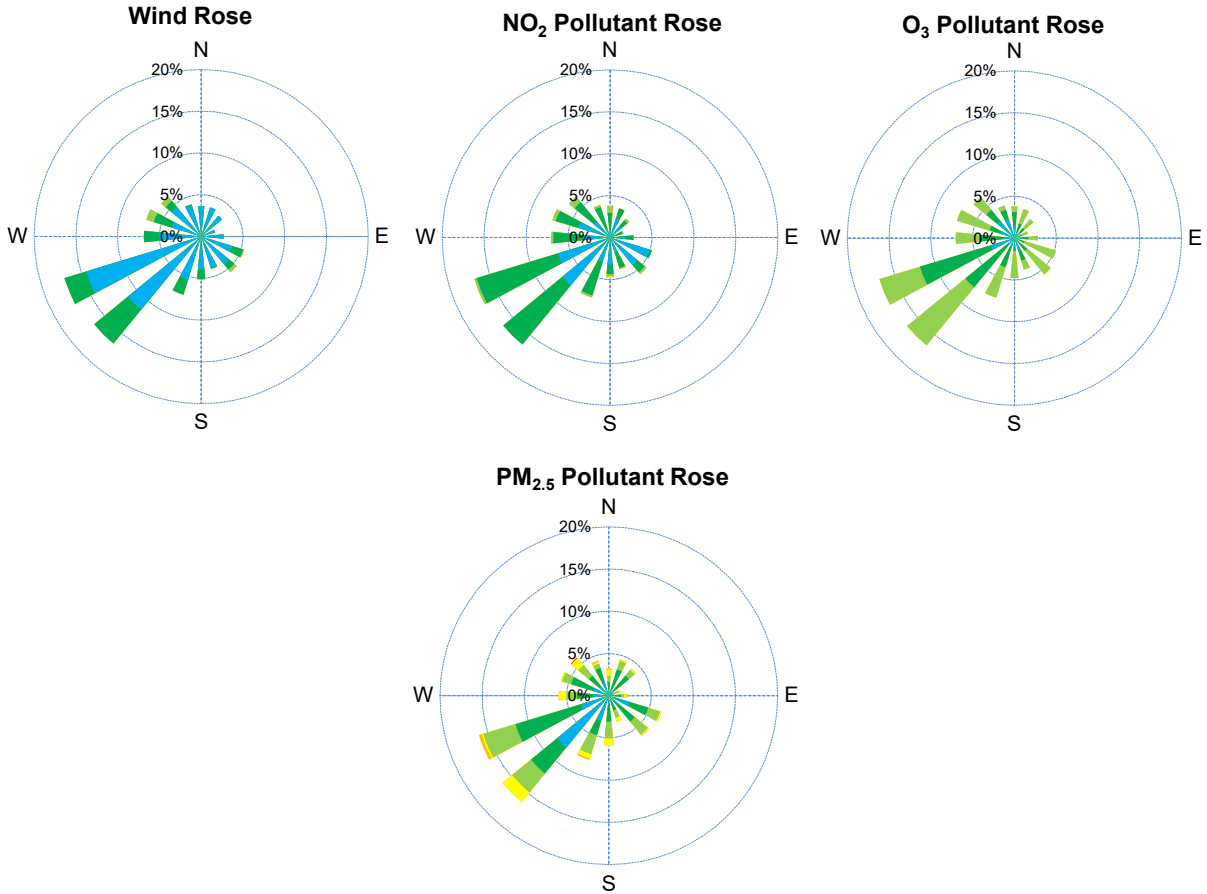
\*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.

\*All compliance parameters were greater than 90% operational, except for PM<sub>2.5</sub>.

\*1-2 hours of data was flagged as "power failure" for the meteorological parameters due to intermittent power issues during the month.

\*189 hours of data was flagged as "analyzer failure" for PM<sub>2.5</sub> due to flatlined data from December 6 - 14.

# WYAMZ Meadow Lake City Station - December 2023 Summary Report



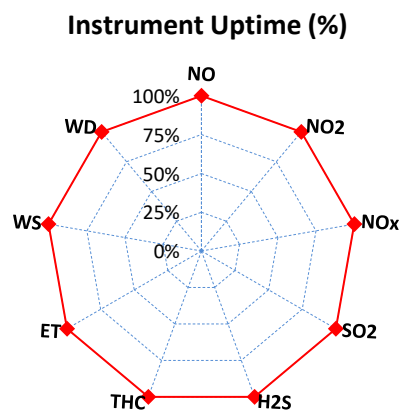
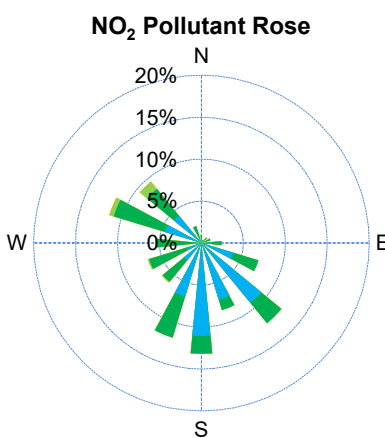
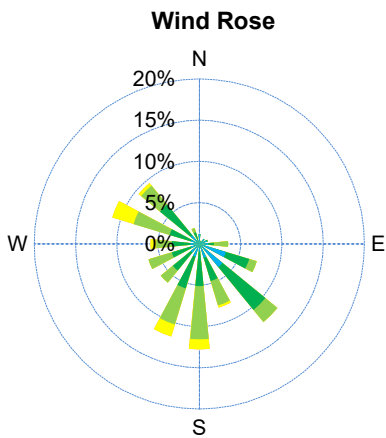
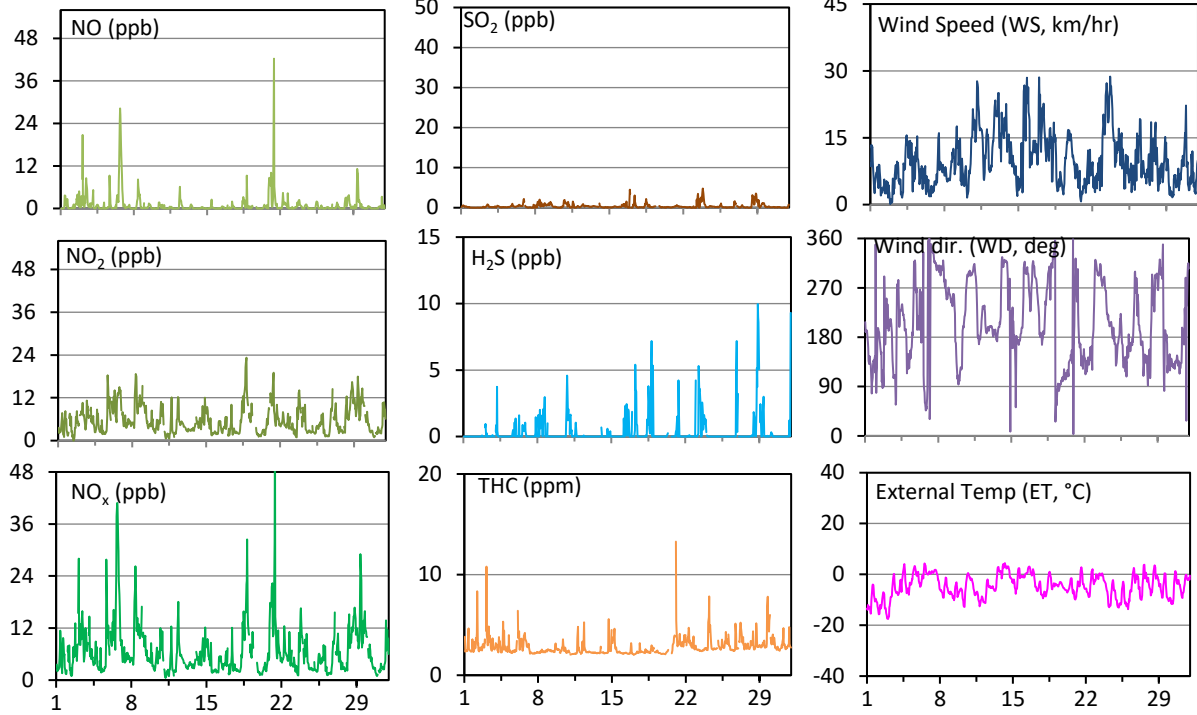
Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	kph	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$
NO <sub>2</sub>	ppb	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C 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



# Cenovus Energy Inc East Station - December 2023 Summary Report

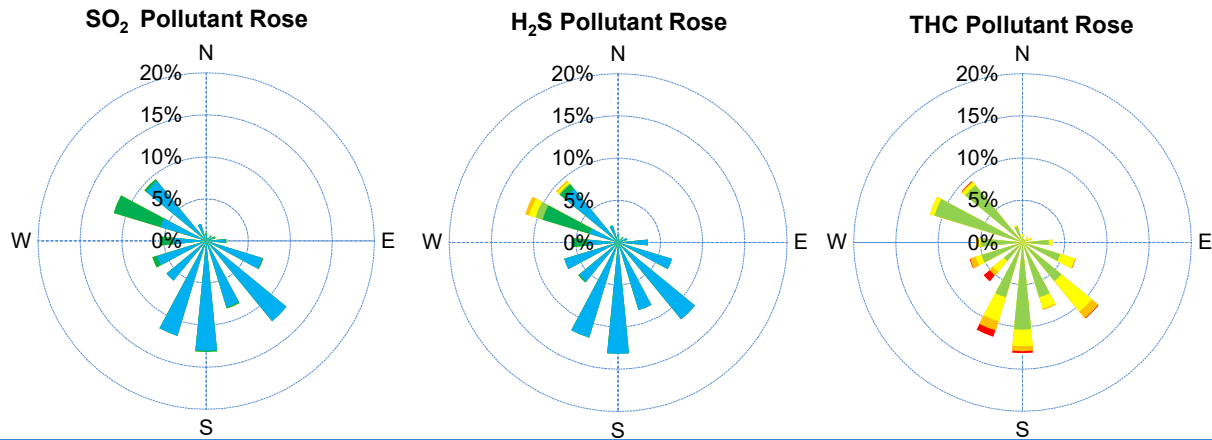
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standards	Exceed Days	Maximum		SAAQS Standards	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	1.1	100.0%	7.2	Dec-6	-	-	42.3	Dec-21 10:00	-	-
NO <sub>2</sub>	ppb	5.6	100.0%	10.8	Dec-6	106	0	23.3	Dec-18 20:00	159	0
NO <sub>x</sub>	ppb	6.7	100.0%	18.0	Dec-6	-	-	61.1	Dec-21 10:00	-	-
SO <sub>2</sub>	ppb	0.4	100.0%	1.6	Dec-23	48	0	4.8	Dec-23 21:00	172	0
H <sub>2</sub> S	ppb	0.4	100.0%	1.3	Dec-23	3.6	0	10.0	Dec-28 21:00	11.0	0
THC	ppm	2.8	100.0%	3.9	Dec-21	-	-	13.3	Dec-21 02:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
Wind Speed	km/hr	1 ≤ WS < 5	5 ≤ WS < 10	10 ≤ WS < 20	20 ≤ WS < 30	30 ≤ WS < 40	WS ≥ 40	
SO <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172	
NO <sub>2</sub>	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
H <sub>2</sub> S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 11	C ≥ 11	
THC	ppm	0 ≤ C < 1	1 ≤ C < 2	2 ≤ C < 3	3 ≤ C < 4	4 ≤ C < 5	C ≥ 5	

# Cenovus Energy Inc East Station - December 2023 Summary Report



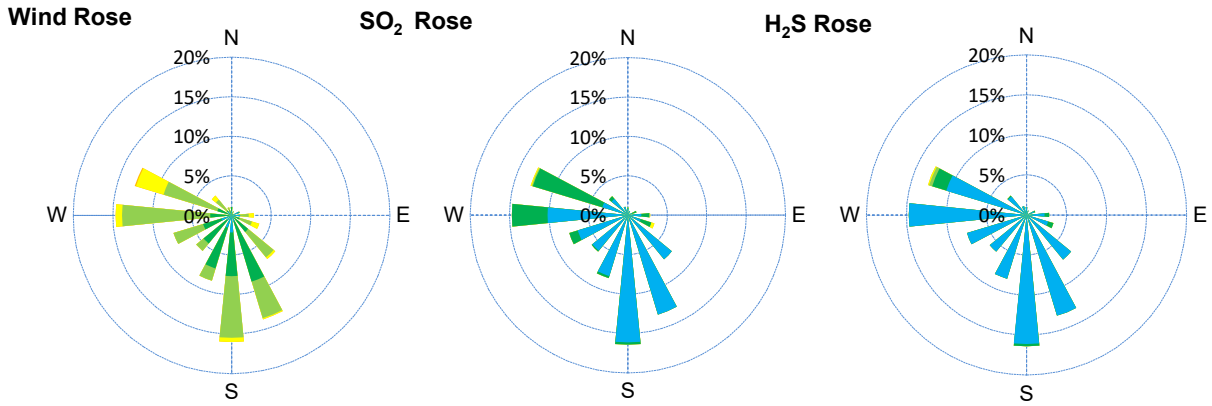
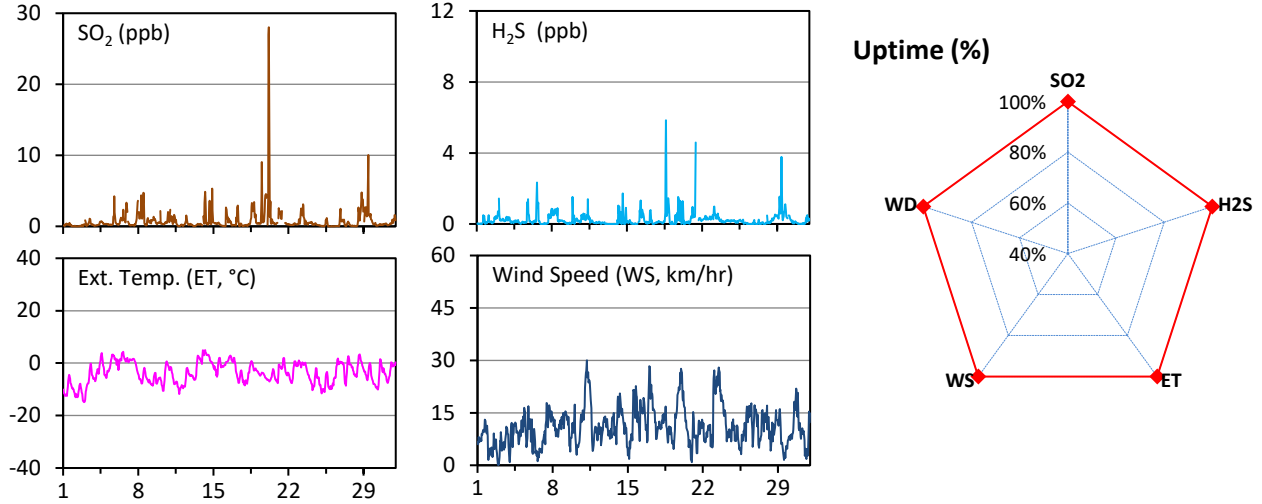
## Monthly Update

- \*Air monitoring data has been validated. Data may change after validation process.
- \*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- \*All compliance parameters were >90% operational.
- \*Station was calibrated on December 19 and December 20, 2023.

# Genovus Energy Inc West Station - December 2023 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records				
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		AAAQO / SAAQS	Exceed Days	Minimum Conc.	Maximum		AAAQO / SAAQS	Exceed Hours
				Conc.	Time				Conc.	Time		
SO <sub>2</sub>	ppb	0.8	100.0%	3.6	Dec-20	48 / 48	0 / 0	-0.1	28.0	Dec-20 05:00	172 / 172	0 / 0
H <sub>2</sub> S	ppb	0.3	100.0%	0.8	Dec-29	3 / 3.6	0 / 0	-0.2	6.0	Dec-18 16:00	10 / 11.0	0 / 0

AAAQO: Alberta Ambient Air Quality Objectives; SAAQS: Saskatchewan Ambient Air Quality Standards.



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	km/hr	1 ≤ WS < 5	5 ≤ WS < 10	10 ≤ WS < 20	20 ≤ WS < 30	30 ≤ WS < 40	WS ≥ 40
SO <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172
H <sub>2</sub> S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 11	C ≥ 11

## Monthly Update

- \*Air monitoring data has been validated. Data may change after validation process.
- \*All compliance parameters were within the Alberta Ambient Air Quality Objectives and the Saskatchewan Ambient Air Quality Standards.
- \*All compliance parameters were >90% operational.
- \*Station was calibrated on December 21.