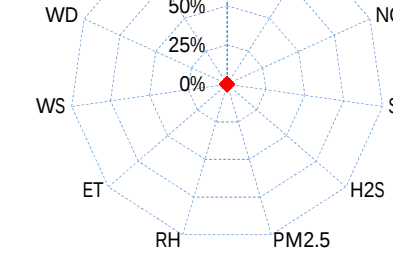
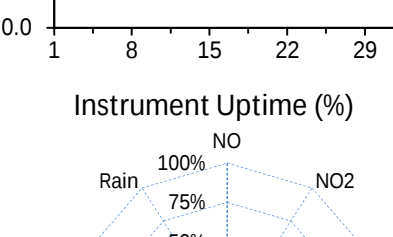
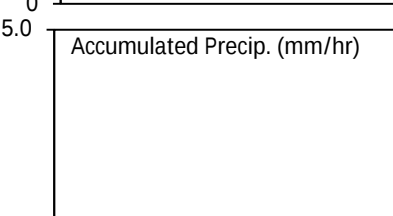
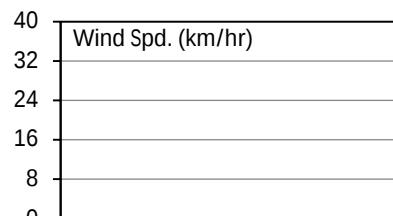
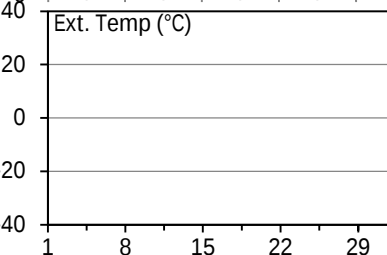
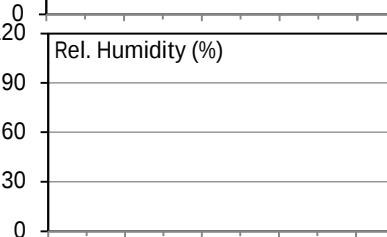
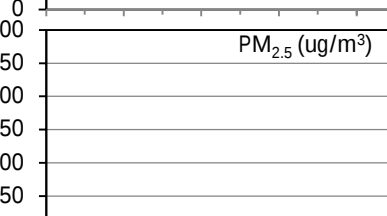
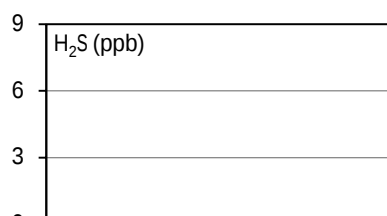
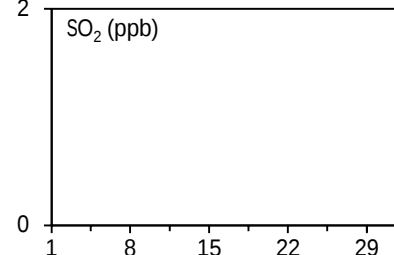
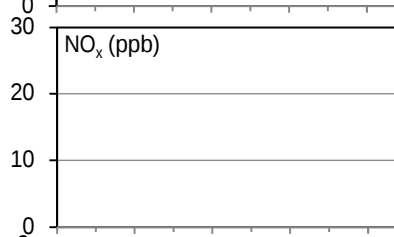
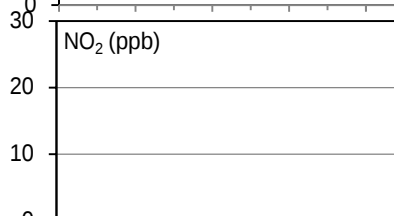
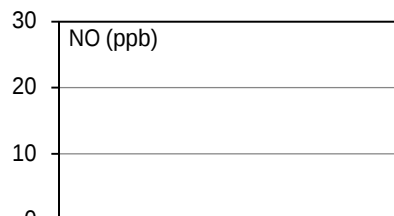


WYAMZ Maidstone Station - August 2024 Summary Report

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 ₂	ppb	-	0.0%	< 0.1	-	106	0	< 0.1	-	159	0
NO _x	ppb	-	0.0%	< 0.1	-	-	-	< 0.1	-	-	-
SO ₂	ppb	-	0.0%	< 0.1	-	48	0	< 0.1	-	172	0
H ₂ S	ppb	-	0.0%	< 0.1	-	3.6	0	< 0.1	-	11	0
PM _{2.5}	ug/m3	-	0.0%	< 0.1	-	28	0	< 0.1	-	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



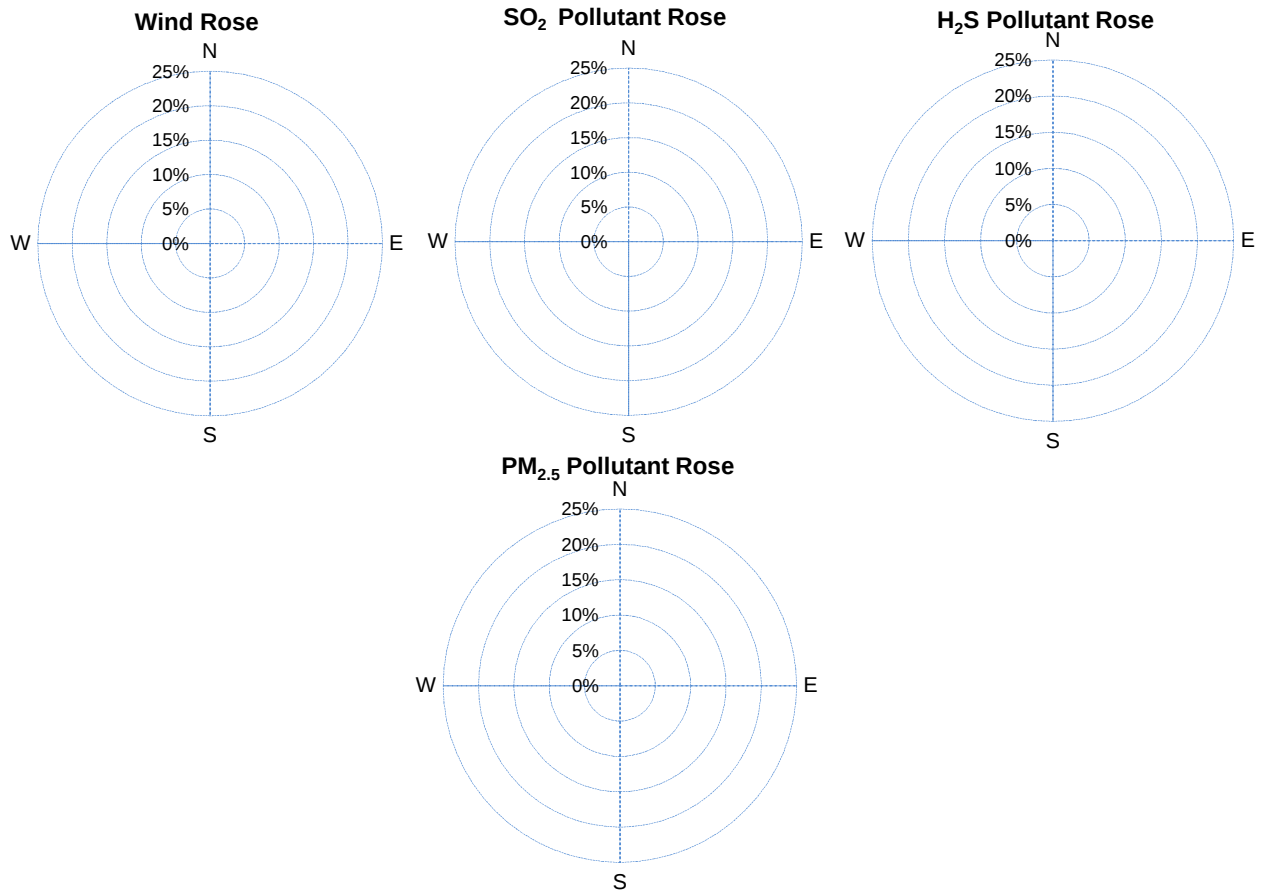
Monthly Update

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

*All parameters were less than 90% operational.

*Station was taken out of service

WYAMZ Maidstone Station - August 2024 Summary Report

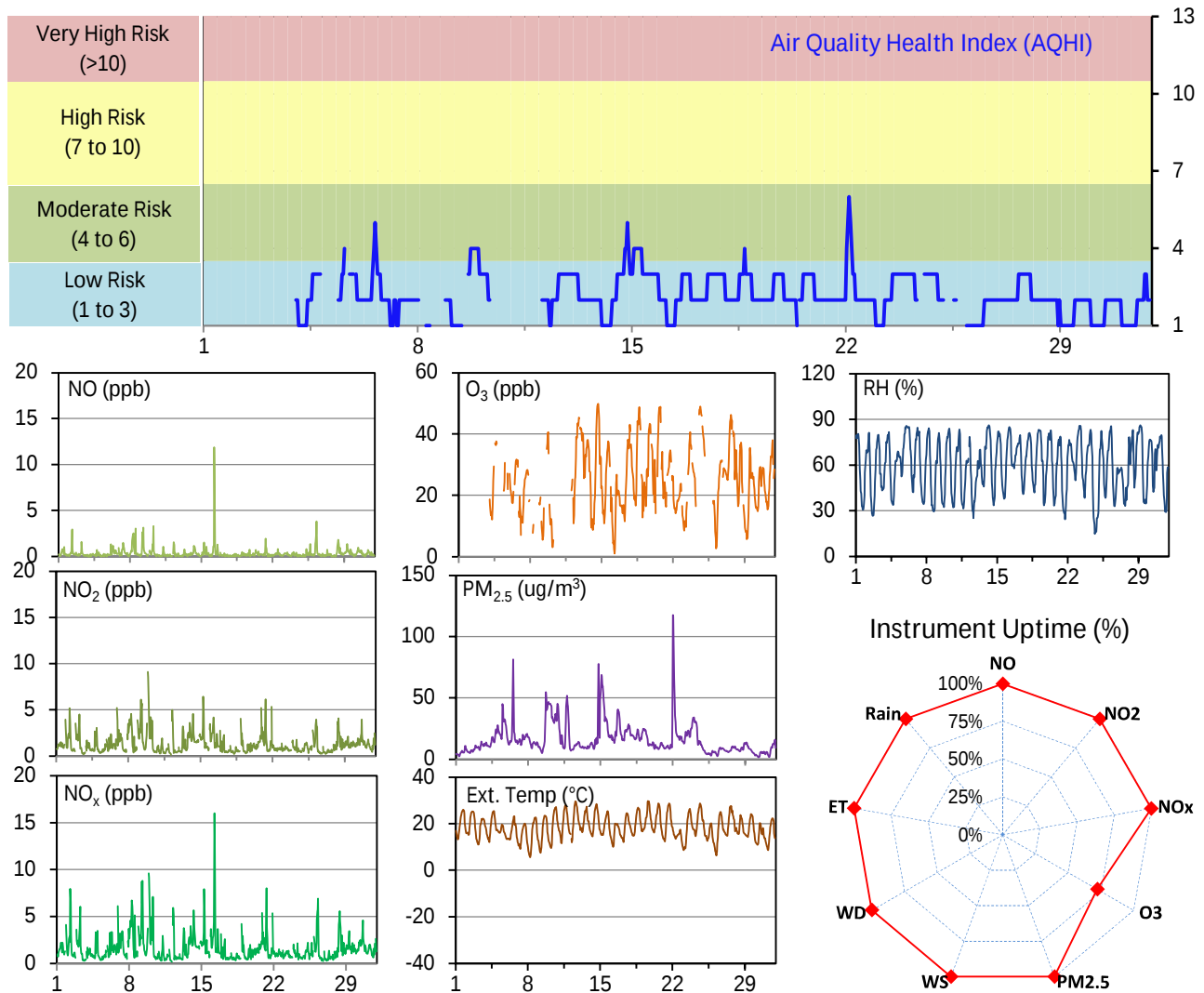


Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
Wind Speed	kph	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$	
SO ₂	ppb	$0 \leq C < 1$	$1 \leq C < 5$	$5 \leq C < 10$	$10 \leq C < 57$	$57 \leq C < 172$	$C \geq 172$	
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	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

WYAMZ Meadow Lake City Station - August 2024 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	0.3	99.7%	1.3	Aug-16	-	-	11.9	Aug-16 06:00	-	-
NO ₂	ppb	1.3	99.7%	3.1	Aug-9	106	0	9.1	Aug-09 21:00	159	0
NO _x	ppb	1.7	99.7%	3.7	Aug-9	-	-	16.0	Aug-16 06:00	-	-
O ₃	ppb	25.3	72.2%	34.6	Aug-27	-	-	49.9	Aug-14 16:00	82	0
PM _{2.5}	ug/m3	16.2	99.9%	38.0	Aug-15	28	3	117.5	Aug-22 00:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Monthly Update

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

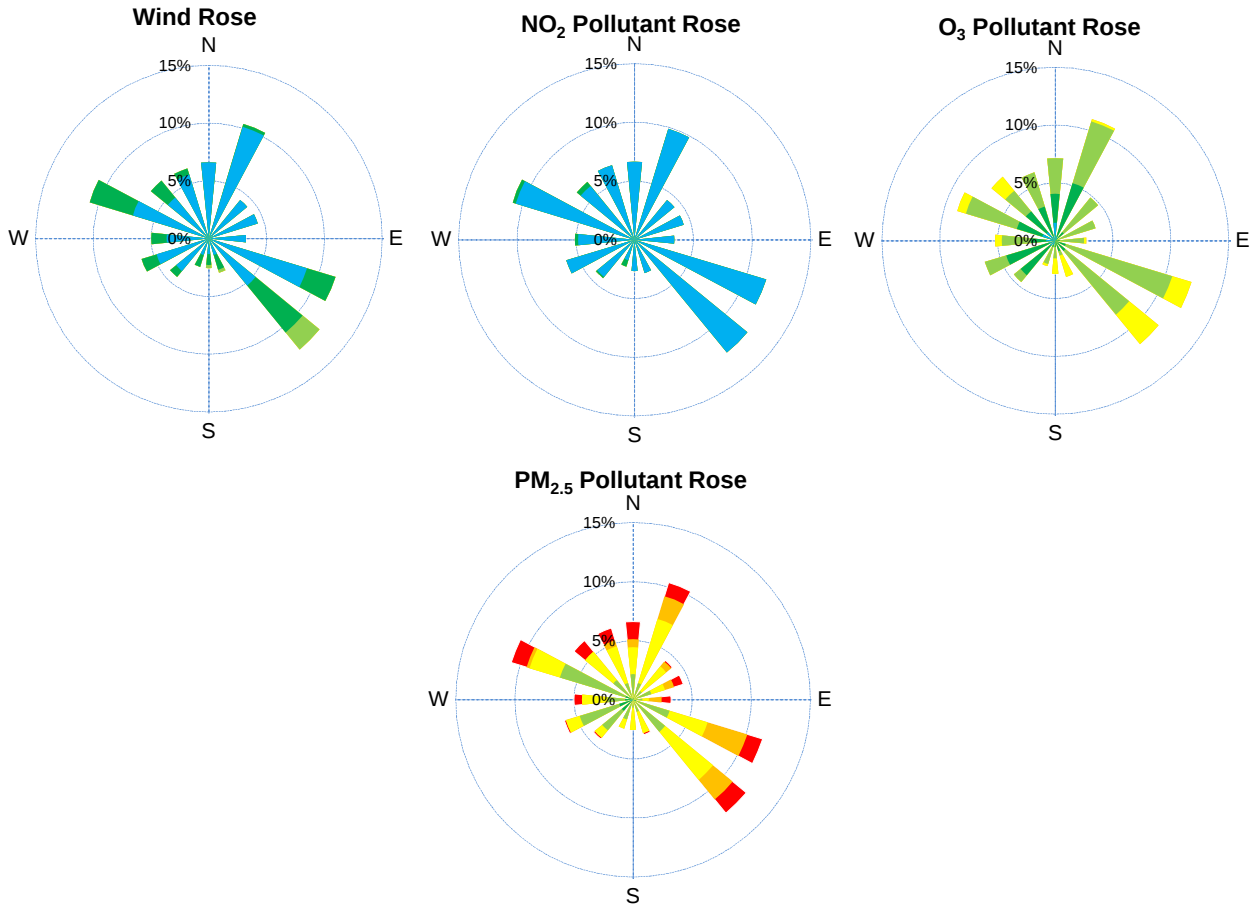
*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards with the exception of three 24-hour PM_{2.5} exceedances attributed to wildfire smoke in the area.

*All compliance parameters were greater than 90% operational, except for O₃

*1-200 hours of data flagged as "analyzer failure" for all analyzers due to missing and flatlined data.

*WSP is not responsible for the maintenance of this Station and therefore dashboards were not senior reviewed by operations.

WYAMZ Meadow Lake City Station - August 2024 Summary Report



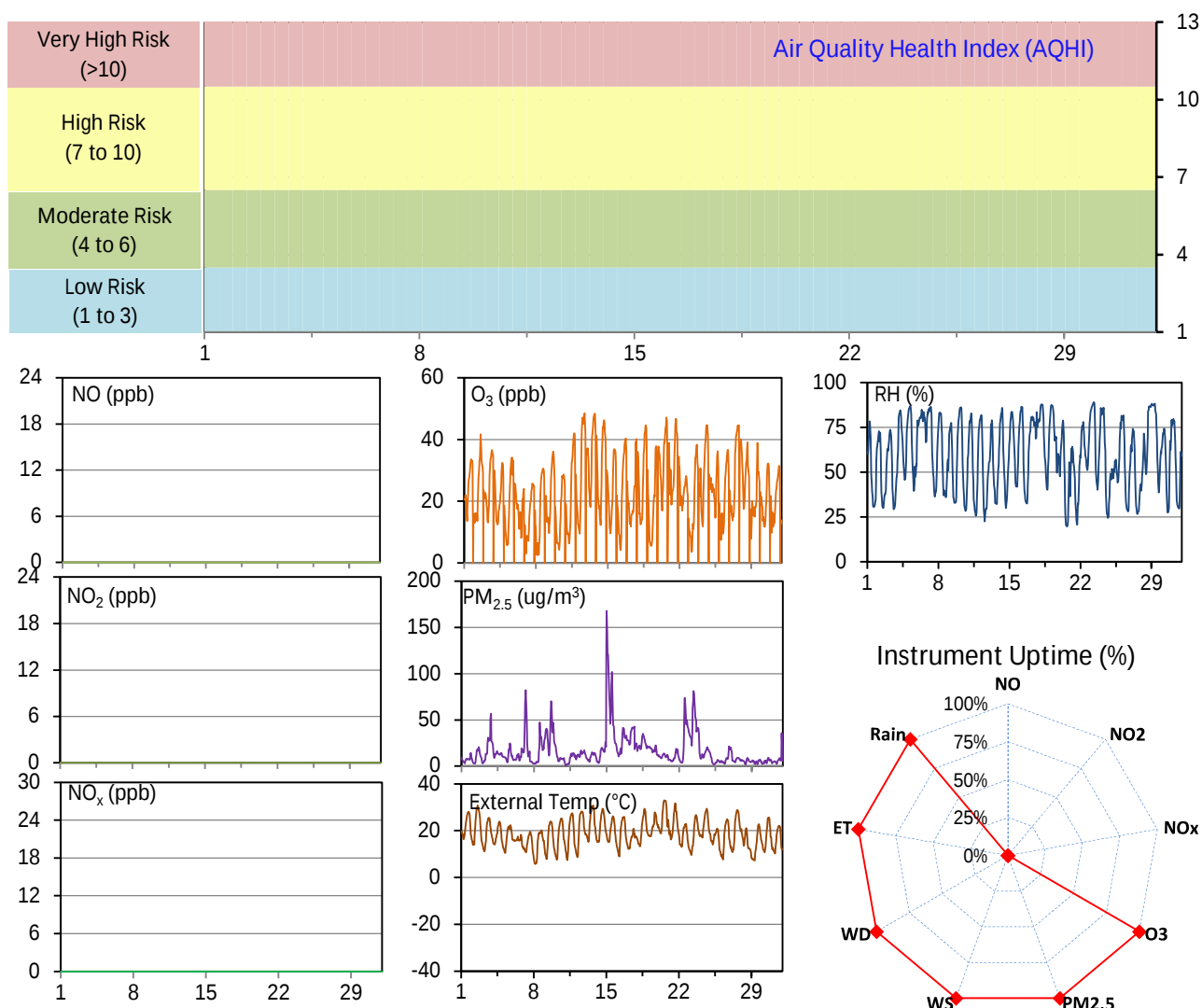
Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	kph	0.3 ≤ WS < 1.4	1.4 ≤ WS < 3.1	3.1 ≤ WS < 7.8	7.8 ≤ WS < 10.8	10.8 ≤ WS < 13.6	WS ≥ 13.6
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212
O ₃	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C <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

Exceedance Summary (24-Hour Average)											
24-hour Exceedance Information			Summary of Other Parameters During Exceedance								
Pollutant	Conc. ppb	Exceedance Date	WS	WD	AQHI	Rain	NO	NO2	NOx	O3	PM2.5
		mmm-dd	kph	deg	-	mm	ppb	ppb	ppb	ppb	ug/m3
PM2.5	37.8	Aug-10	0.4	155.2	-	0.0	0.4	1.6	2.0	-	37.8
PM2.5	38.0	Aug-15	0.6	259.7	3.2	0.0	0.3	1.9	2.2	24.0	38.0
PM2.5	33.4	Aug-22	1.0	275.7	2.6	0.0	0.2	0.8	1.0	18.0	33.4

WYAMZ Clavet Station - August 2024 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 ₂	ppb	-	0.0%	< 0.1	-	106	0	< 0.1	-	159	0
NO _x	ppb	-	0.0%	< 0.1	-	-	-	< 0.1	-	-	-
O ₃	ppb	24.0	100.0%	35.8	Aug-13	-	-	48.5	Aug-12 17:00	82	0
PM _{2.5}	ug/m3	17.0	100.0%	68.6	Aug-15	28	5	167.7	Aug-15 00:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Monthly Update

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

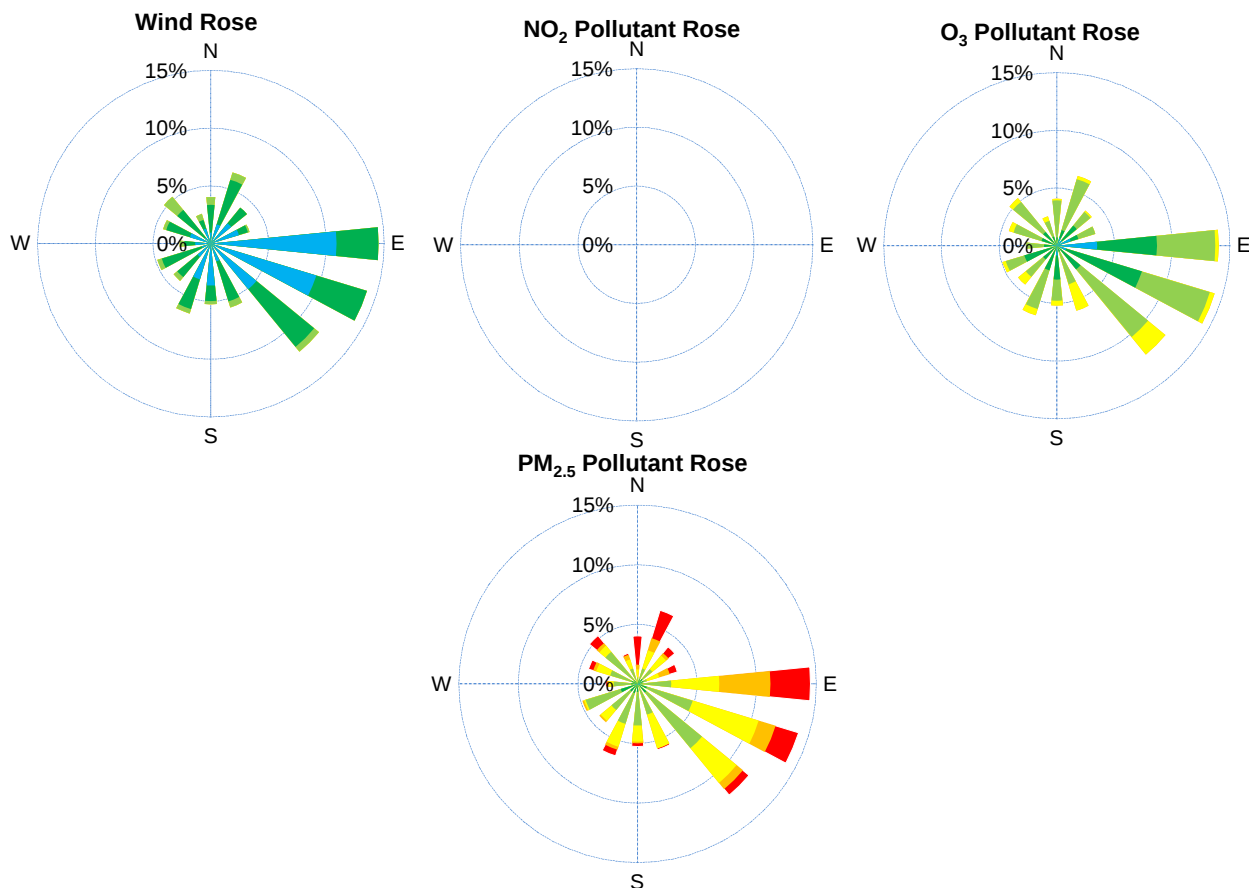
*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards, with the exception of five 24-hour PM_{2.5} exceedances attributed to wildfire smoke in the area.

*All compliance parameters were more than 90% operational for the month, except for the NO/NO₂/NO_x analyzer.

*744 hours of data flagged as "maintenance" for NO/NO₂/NO_x due to the analyzer being removed from service on July 18.

*WSP is not responsible for the maintenance of this Station and therefore dashboards were not senior reviewed by operations.

WYAMZ Clavet Station - August 2024 Summary Report



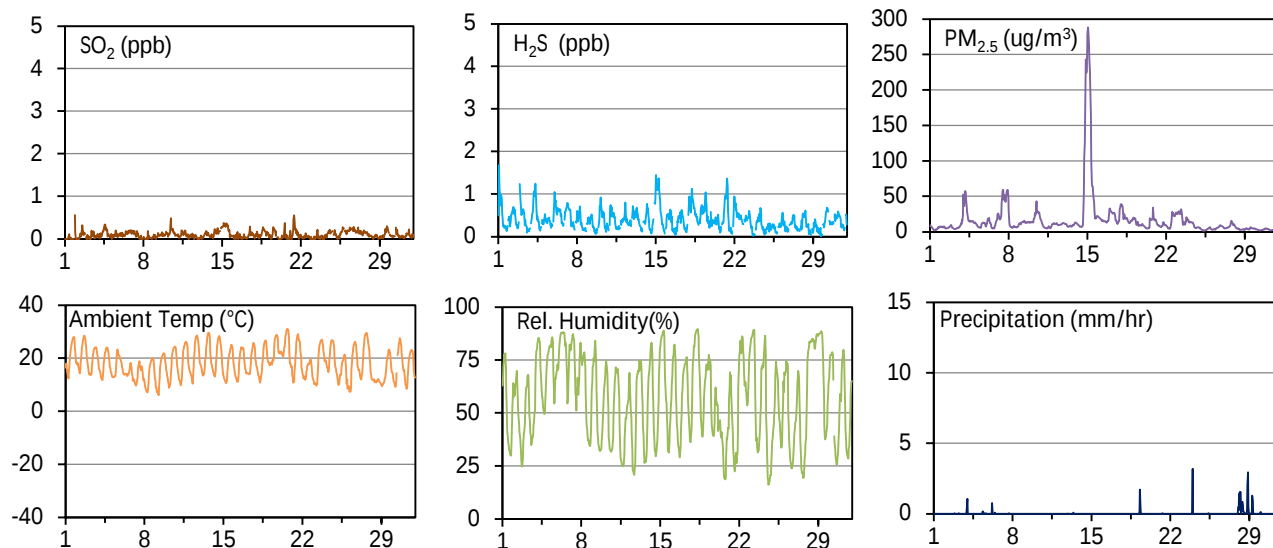
Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
Wind Speed	kph	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$	
NO ₂	ppb	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C < 212$	$C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

Exceedance Summary											
24-hour Exceedance Information			Summary of Other Parameters During Exceedance								
Pollutant	Conc.	Exceedance Date	WS	WD	AQHI	Rain	NO	NO ₂	NO _x	O ₃	PM _{2.5}
		mmm-dd	kph	deg	-	mm	ppb	ppb	ppb	ppb	ug/m ³
PM _{2.5}	36.2	Aug-9	1.0	157.6	-	0.0	-	-	-	21.4	36.2
PM _{2.5}	68.6	Aug-15	2.2	129.8	-	0.0	-	-	-	23.1	68.6
PM _{2.5}	30.4	Aug-17	1.7	95.7	-	1.1	-	-	-	22.7	30.4
PM _{2.5}	29.8	Aug-22	1.9	174.0	-	0.0	-	-	-	21.8	29.8
PM _{2.5}	44.5	Aug-23	1.3	107.2	-	0.8	-	-	-	20.3	44.5

WYAMZ Kerrobert Station - August 2024 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	0.1	99.9%	0.2	Aug-15	48	0	0.6	Aug-01 21:00	172	0
H ₂ S	ppb	0.4	99.9%	0.7	Aug-15	3.6	0	1.7	Aug-01 01:00	11	0
PM _{2.5}	ug/m3	16.9	99.9%	107.7	Aug-15	28	3	288.2	Aug-15 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, except three 24-hour PM_{2.5} exceedances which can be attributed to wildfire smoke in the area.

*All compliance parameters were greater than 90% operational for the month.

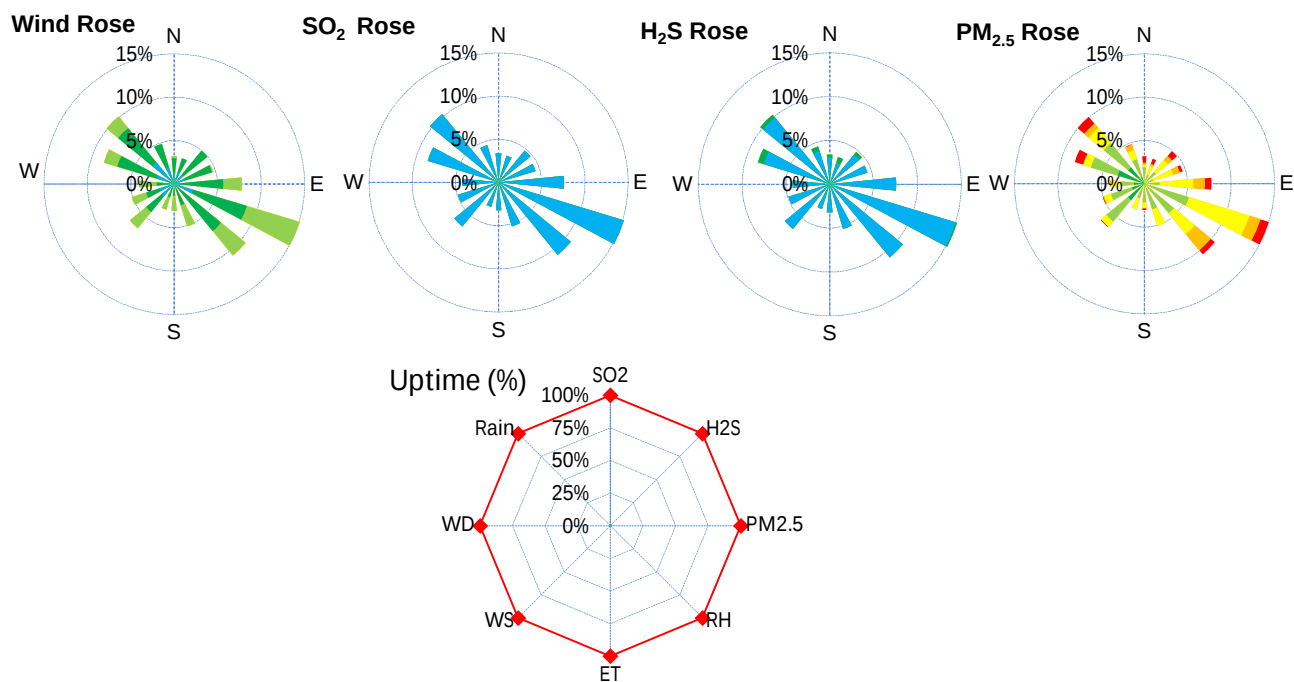
*1 hour of data for the whole station flagged as "power failure" due to power supply issues on the site.

*WSP is not responsible for the maintenance of this Station and therefore dashboards were not senior reviewed by operations.

Exceedance Summary (24-Hour Average)

24-hour Exceedance Information			Summary of Other Parameters During Exceedance						
Pollutant	Conc. ppb	Exceedance Date mmm-dd	WS m/s	WD deg	Rain mm	ET C	SO ₂ ppb	H ₂ S ppb	PM _{2.5} ug/m3
PM _{2.5}	40.2	Aug-7	1.4	130.4	0.0	13.7	0.1	0.5	40.2
PM _{2.5}	65.0	Aug-14	2.2	308.1	0.0	20.3	0.2	0.4	65.0
PM _{2.5}	107.7	Aug-15	1.7	179.0	0.0	17.7	0.2	0.7	107.7

WYAMZ Kerrobert Station - August 2024 Summary Report

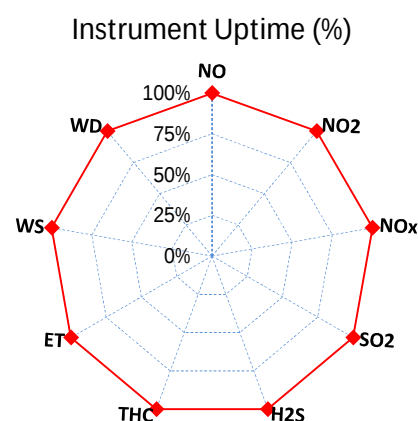
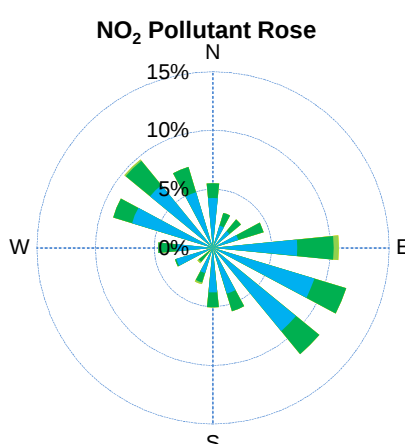
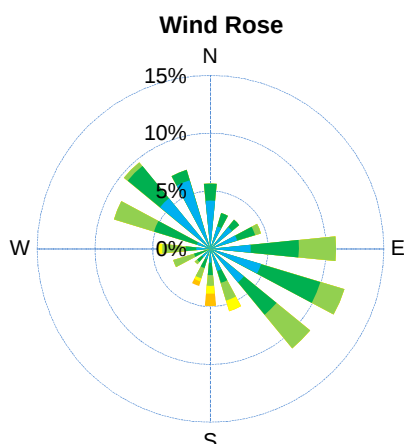
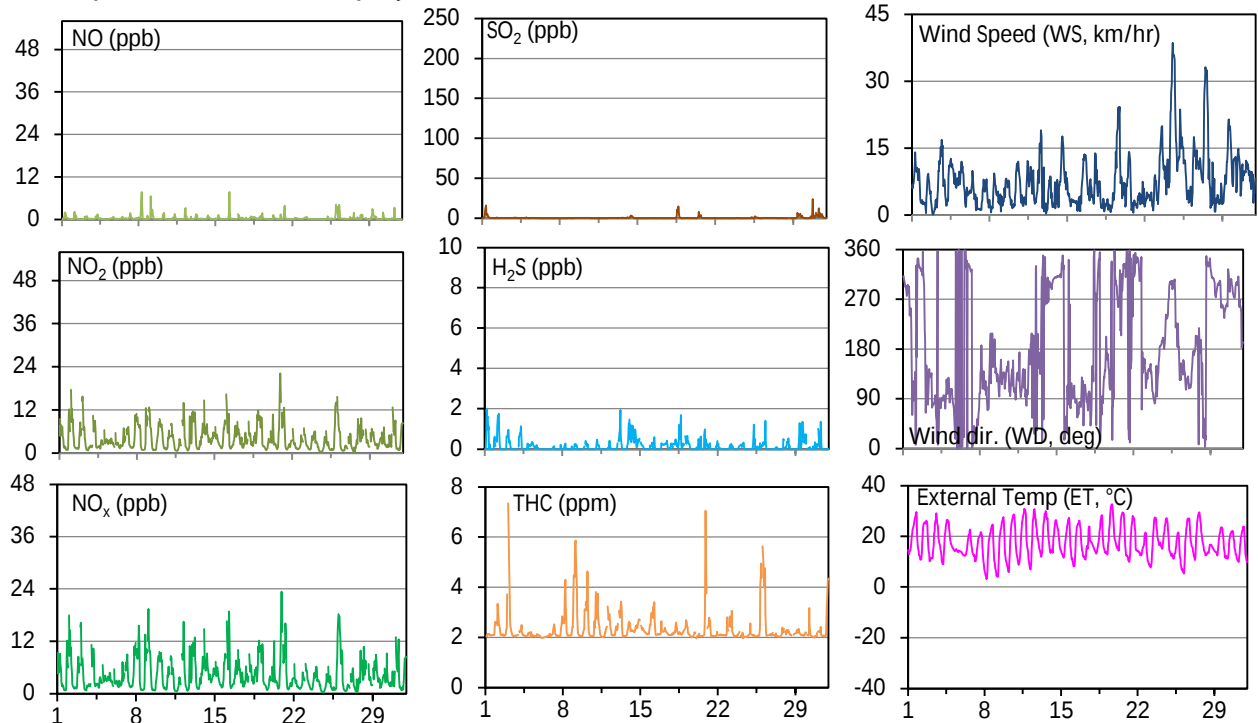


Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	kph	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$
SO ₂	ppb	$0 \leq C < 1$	$1 \leq C < 5$	$5 \leq C < 10$	$10 \leq C < 57$	$57 \leq C < 172$	$C \geq 172$
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	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$

Cenovus Energy Inc East Station - August 2024 Summary Report

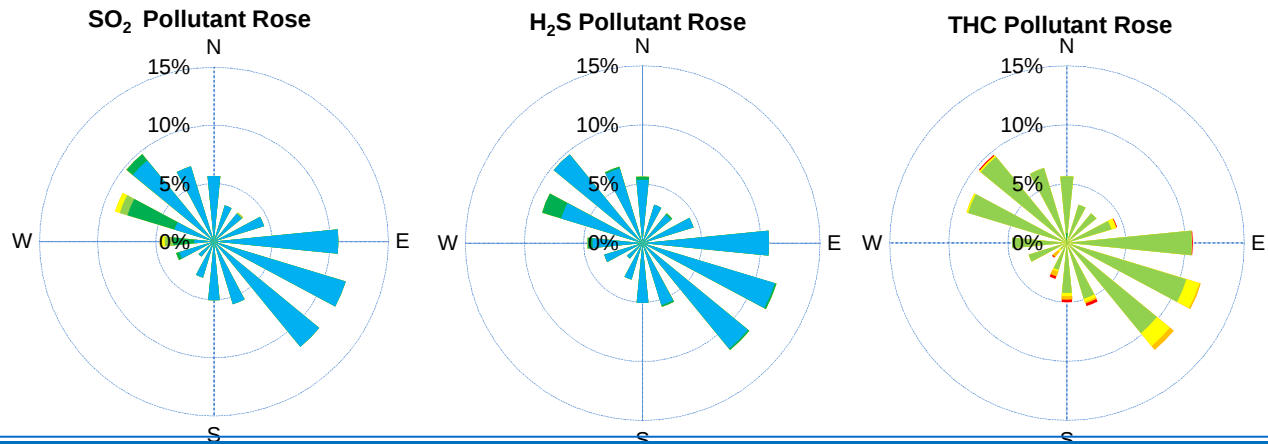
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standards	Exceed Days	Maximum		SAAQS Standards	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.4	100.0%	1.0	Aug-8	-	-	7.8	Aug-16 07:00	-	-
NO ₂	ppb	4.0	100.0%	5.8	Aug-20	106	0	22.1	Aug-20 23:00	159	0
NO _x	ppb	4.3	100.0%	6.0	Aug-20	-	-	23.4	Aug-20 23:00	-	-
SO ₂	ppb	0.5	100.0%	2.9	Aug-31	48	0	24.1	Aug-30 19:00	172	0
H ₂ S	ppb	0.2	100.0%	0.6	Aug-14	3.6	0	2.0	Aug-01 05:00	11.0	0
THC	ppm	2.3	100.0%	2.9	Aug-9	-	-	7.3	Aug-03 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 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 < 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 - August 2024 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.

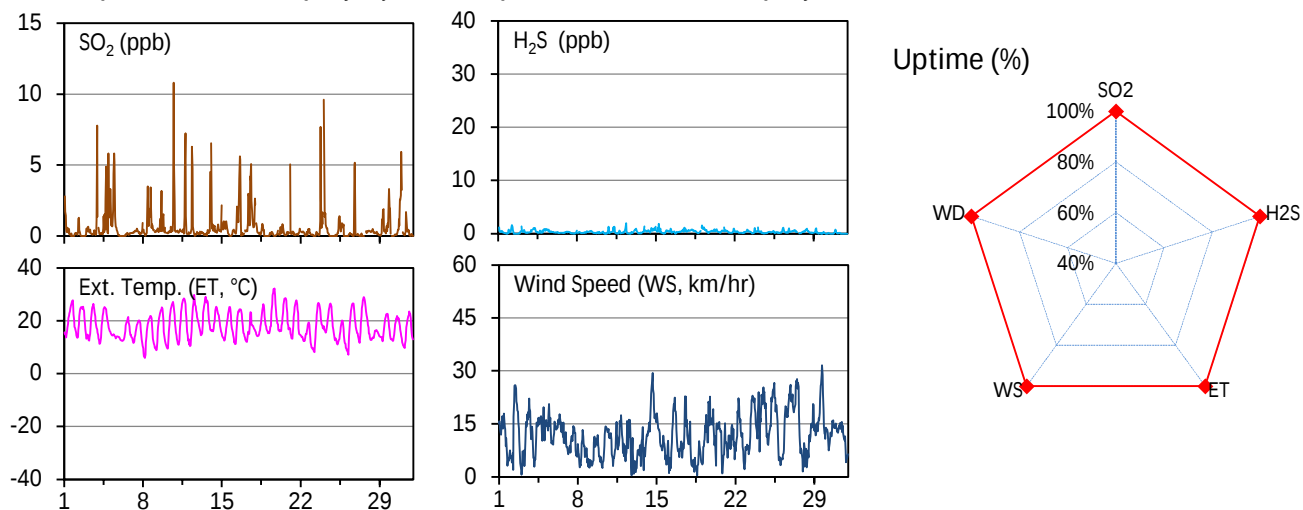
*All compliance parameters were >90% operational.

*Station was calibrated on August 28, 2024.

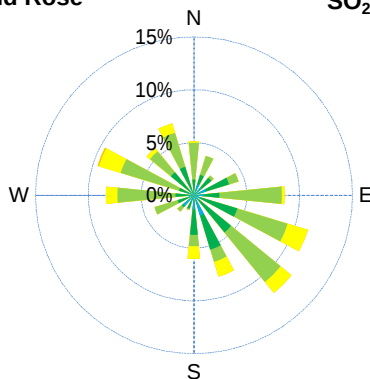
Cenovus Energy Inc West Station - August 2024 Summary Report

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 ₂	ppb	0.6	100.0%	1.6	Aug-17	48 / 48	0 / 0	-0.3	10.8	Aug-10 18:00	172 / 172	0 / 0
H ₂ S	ppb	0.3	99.9%	0.6	Aug-19	3 / 3.6	0 / 0	-0.2	2.0	Aug-12 09:00	10 / 11.0	0 / 0

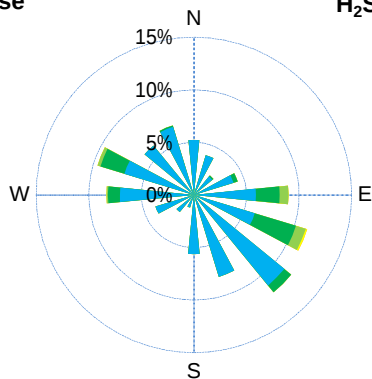
AAAQO: Alberta Ambient Air Quality Objectives; SAAQS: Saskatchewan Ambient Air Quality Standards.



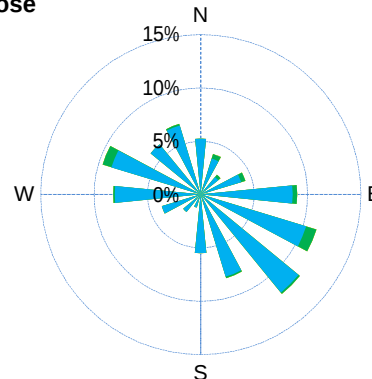
Wind Rose



SO₂ Rose



H₂S Rose



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 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 < 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.

*1 hour flagged as "analyzer failure" for H₂S as a manual span was complete on August 29 to correct previous low daily span.

*Station was calibrated on August 27, 2024.