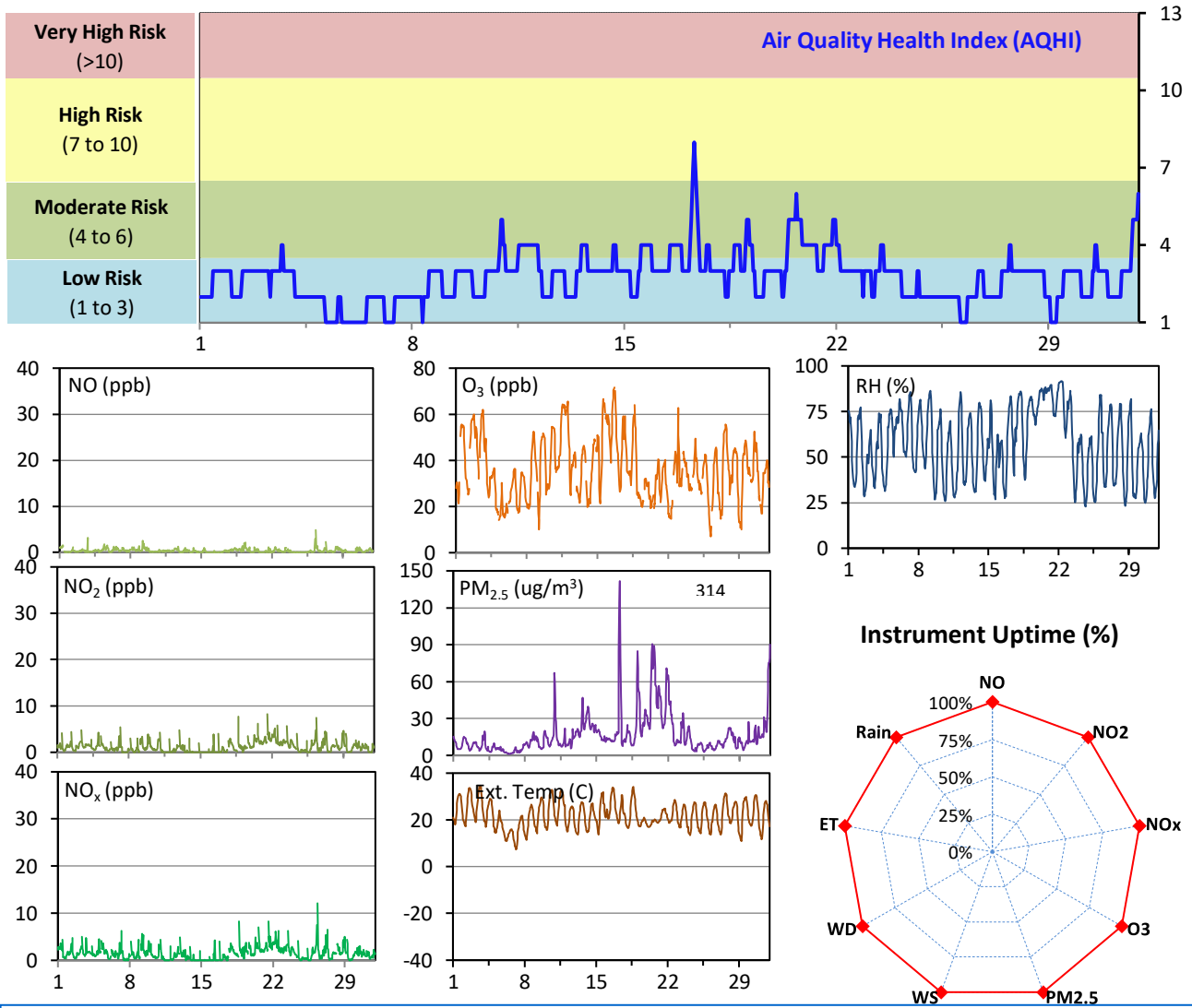


SESAA Esterhazy Station - July 2021 Summary Report

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	0.3	100.0%	0.7	Jul-5	-	-	4.8	Jul-26 08:00	-	-
NO ₂	ppb	1.2	100.0%	3.0	Jul-21	106	0	8.2	Jul-21 13:00	159	0
NO _x	ppb	1.5	100.0%	3.2	Jul-22	-	-	12.1	Jul-26 08:00	-	-
O ₃	ppb	36	100.0%	56	Jul-16	-	-	72	Jul-16 16:00	82	0
PM _{2.5}	ug/m3	17	100.0%	54	Jul-20	28	5	142	Jul-17 06:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



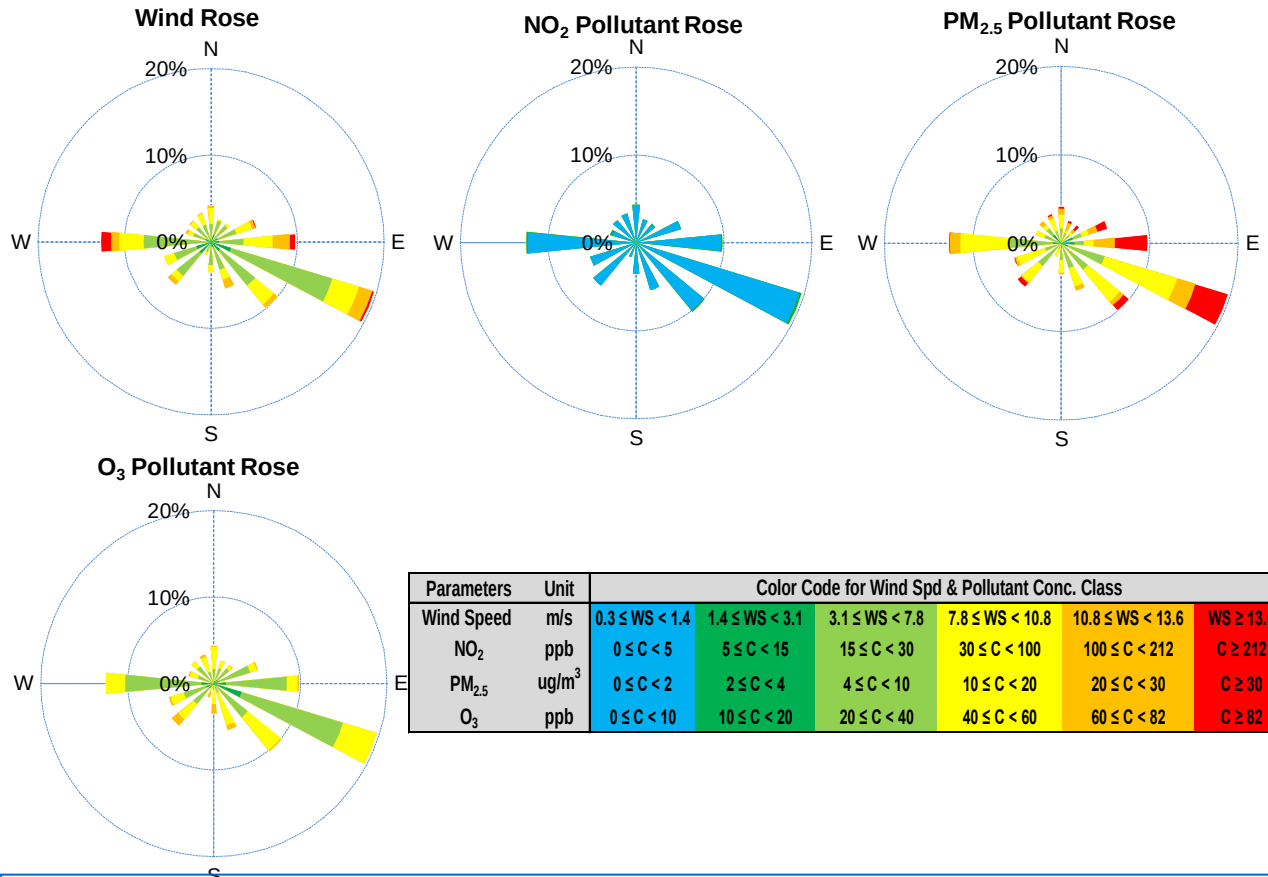
Monthly Update

*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, with the exception of five 24-hour PM_{2.5} exceedance events. These events are attributed to wildfire smoke in the region. Please refer to the summary table for details.

*All compliance parameters were above 90% operational.

SESAA Esterhazy Station - July 2021 Summary Report

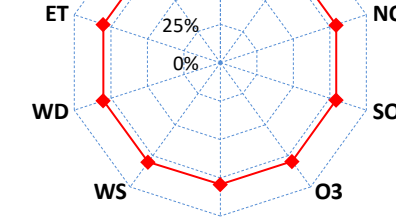
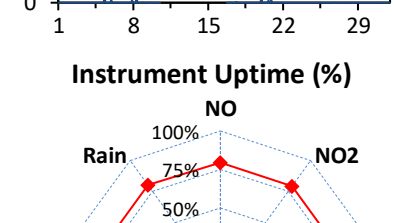
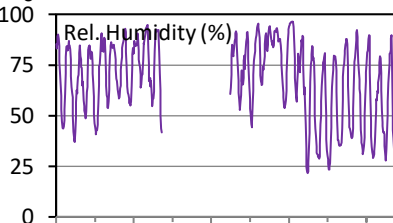
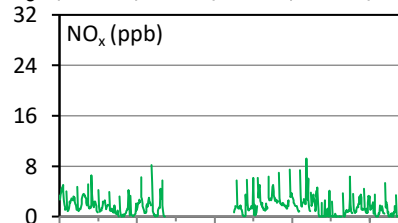
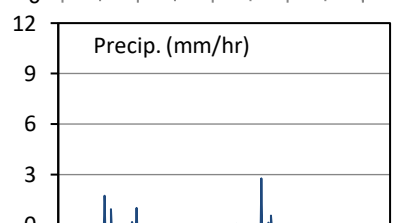
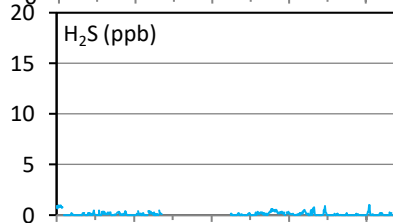
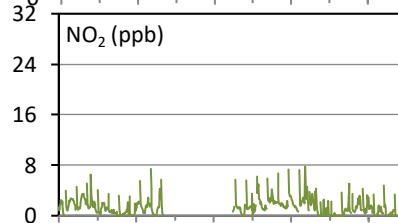
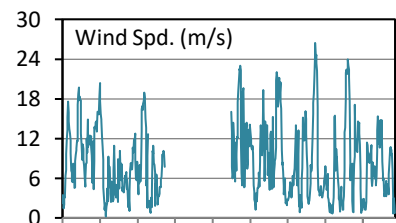
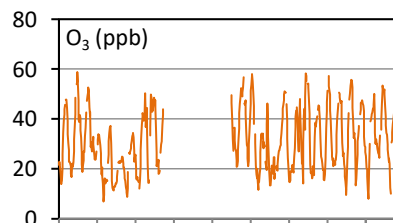
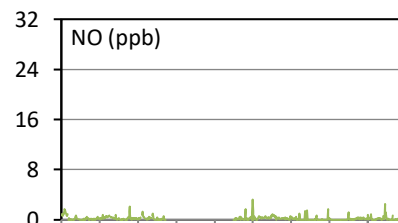
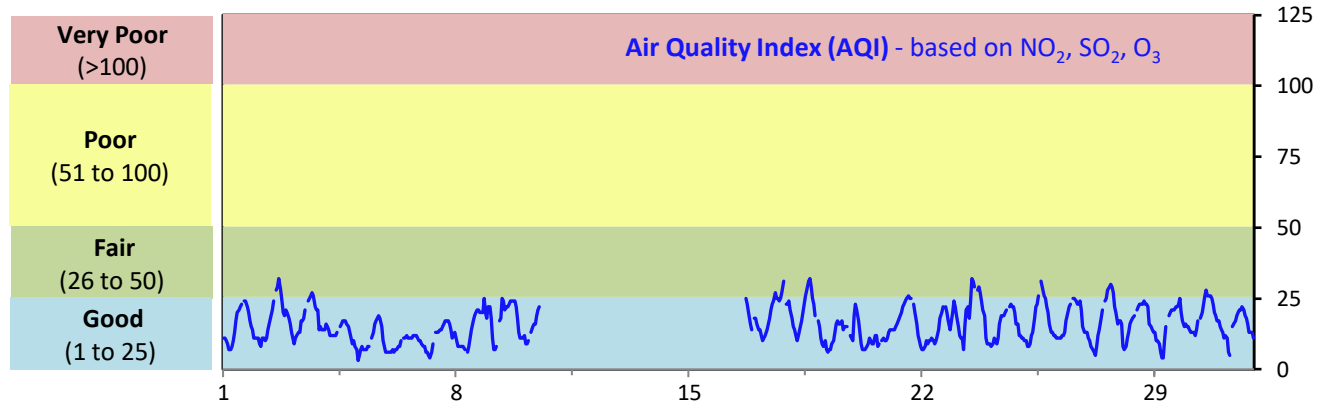


Exceedance Summary (24-Hour Average)											
Pollutant	Conc. ppb	Exceedance Date mmm-dd	WS m/s	WD deg	AQHI -	Rain mm	NO ppb	NO2 ppb	NOx ppb	O3 ppb	PM2.5 ug/m3
PM2.5	54	Jul-20	9.7	109	4	0.4	-	2.3	2.5	26	54
PM2.5	42.0	Jul-21	8.8	82	4	0.0	-	3.0	3.0	31	42
PM2.5	36.0	Jul-17	8.3	117	4	0.1	0.2	0.9	1.1	42	36
PM2.5	35.0	Jul-19	10.8	76	3	0.0	0.7	1.2	2.0	26	35
PM2.5	34.0	Jul-31	4.5	154	3	0.0	0.4	0.7	1.1	30	34

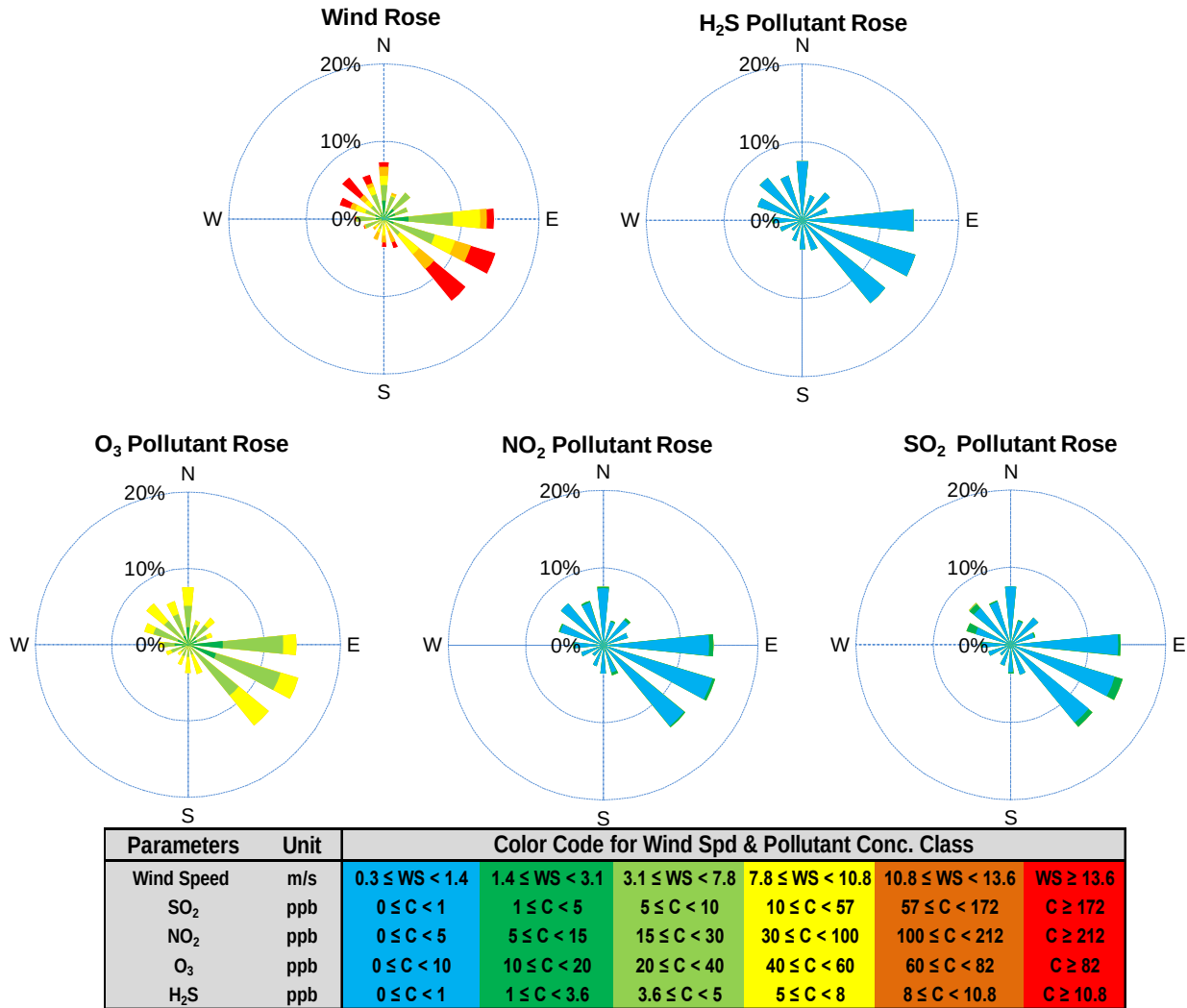
SESAA Glen Ewen Station - July 2021 Summary Report

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	0.2	79.4%	0.6	Jul-1	-	-	3.2	Jul-18 11:00	-	-
NO ₂	ppb	1.4	79.4%	2.8	Jul-23	106	0	7.8	Jul-23 06:00	159	0
NO _x	ppb	1.6	79.4%	3.0	Jul-20	-	-	9.2	Jul-23 06:00	-	-
SO ₂	ppb	0.2	79.4%	0.7	Jul-1	48	0	5.8	Jul-25 11:00	172	0
O ₃	ppb	31	79.4%	39	Jul-17	-	-	59	Jul-02 16:00	82	0
H ₂ S	ppb	0.1	79.4%	0.4	Jul-20	3.6	0	1.0	Jul-29 05:00	11	0

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Glen Ewen Station - July 2021 Summary Report



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.

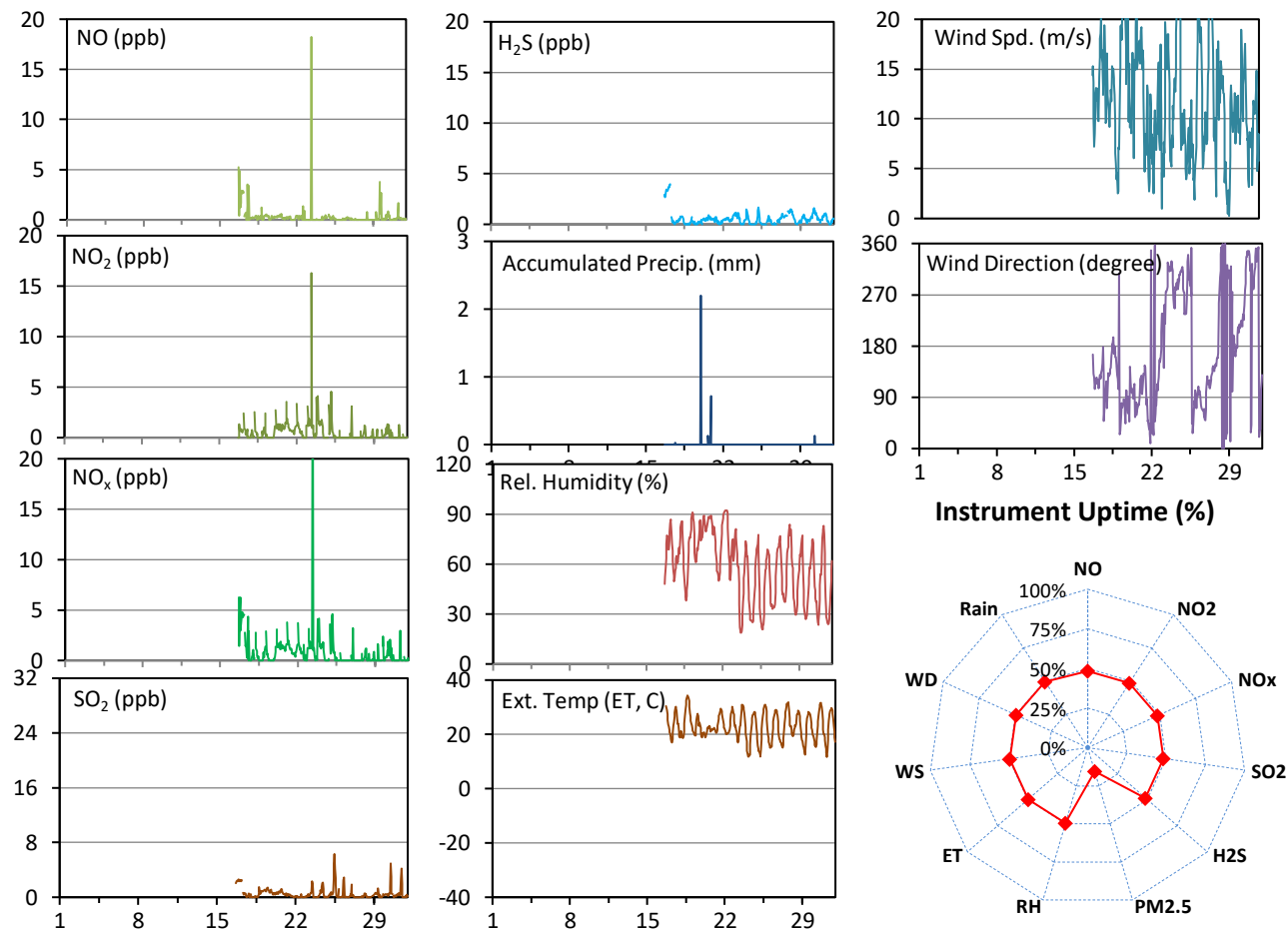
*All compliance parameters are below 90% operational due to a power issue on site July 10-16.

*148 hours of data for all parameters is flagged as "power failure" due to power disruptions.

SESAA Oxbow Station - July 2021 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	0.3	48.4%	0.3	Jul-20	-	-	18.2	Jul-23 08:00	-	-
NO ₂	ppb	0.6	48.4%	2.0	Jul-23	106	0	16.3	Jul-23 08:00	159	0
NO _x	ppb	0.9	48.4%	1.4	Jul-20	-	-	34.5	Jul-23 08:00	-	-
SO ₂	ppb	0.5	48.4%	1.2	Jul-25	48	0	6.3	Jul-25 11:00	172	0
H ₂ S	ppb	0.6	48.4%	1.2	Jul-17	3.6	0	4	Jul-17 05:00	11	0
PM _{2.5}	ug/m3	25	15.6%	33	Jul-24	28	1	74	Jul-24 22:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Monthly Update

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

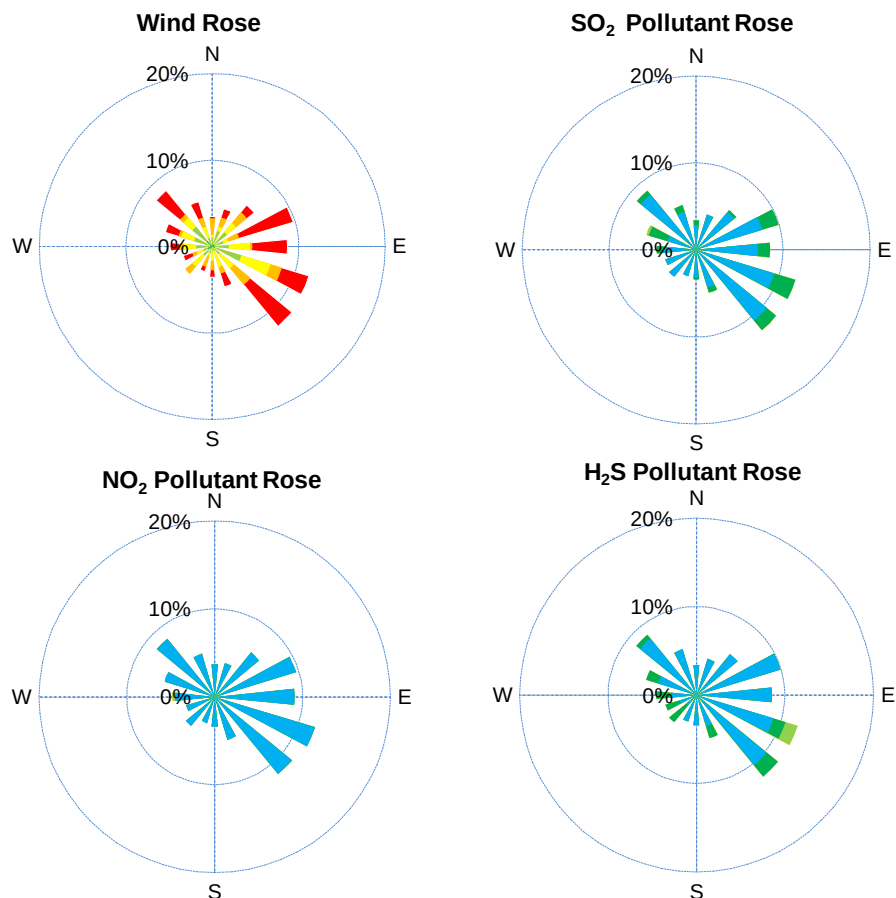
*All compliance parameters were within the Saskatchewan Ambient Air Quality Standard with the exception of one 24-hour PM_{2.5} exceedance event. Please refer to the exceedance summary table for details. The PM_{2.5} events are attributed to wildfire smoke in the region.

*All compliance parameters had less than 90% operational uptime. The airpointer was not operational until July 16.

*376 hours of for all parameter data is flagged as "power failure" due to power issues on site.

*The PM 2.5 analyzer was only operational for 62 hours.

SESAA Oxbow Station - July 2021 Summary Report



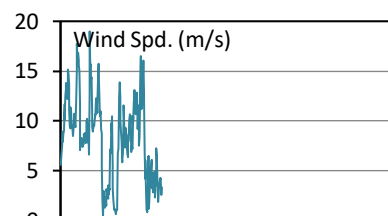
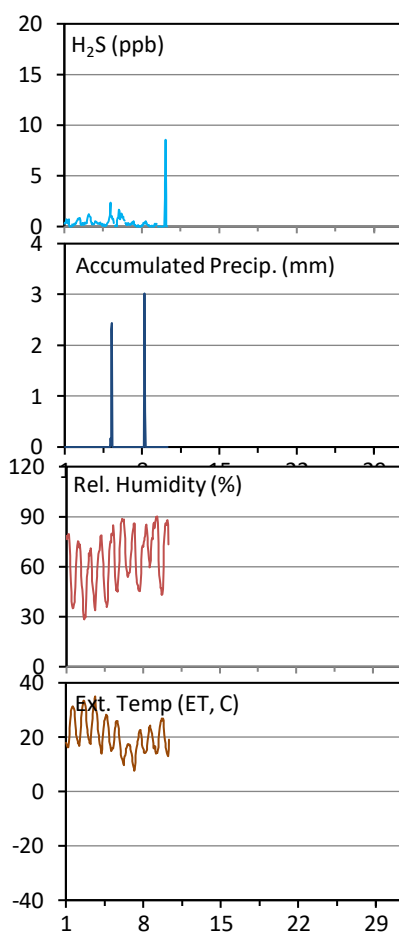
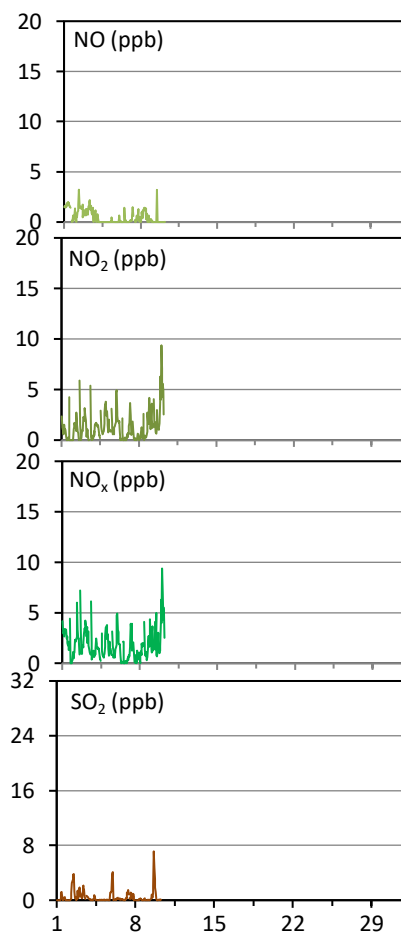
Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	m/s	0.3 ≤ WS < 1.4	1.4 ≤ WS < 3.1	3.1 ≤ WS < 7.8	7.8 ≤ WS < 10.8	10.8 ≤ WS < 13.6	WS ≥ 13.6
SO ₂	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ 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

Exceedance Summary											
24-hour Exceedance Information			Summary of Other Parameters During Exceedance								
Pollutant	24-hr Avg Conc.	Exceedance Date mmm-dd	WS m/s	WD deg	AQI -	Rain mm	ET C	SO ₂ ppb	NO ₂ ppb	H ₂ S ppb	PM _{2.5} ug/m3
PM2.5	33	Jul-24	16.4	287	24	0.0	20.5	-	-	-	33

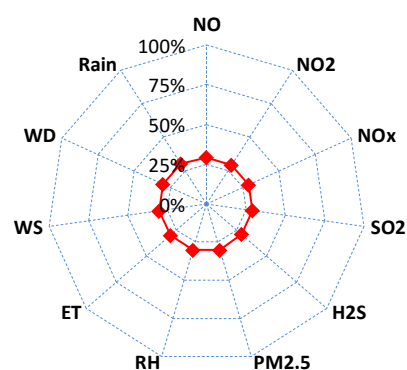
SESAA Stoughton Station - July 2021 Summary Report

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	29.2%	1.2	Jul-1	-	-	3.2	Jul-02 08:00	-	-
NO ₂	ppb	1.4	29.2%	2.1	Jul-9	106	0	9.4	Jul-10 00:00	159	0
NO _x	ppb	1.9	29.2%	2.3	Jul-2	-	-	9.4	Jul-10 00:00	-	-
SO ₂	ppb	0.5	29.2%	1.0	Jul-2	48	0	7.1	Jul-09 15:00	172	0
H ₂ S	ppb	0.4	29.1%	0.8	Jul-5	3.6	0	8.6	Jul-10 03:00	11	0
PM _{2.5}	ug/m3	9	30.1%	13	Jul-8	28	0	33	Jul-10 05:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Instrument Uptime (%)



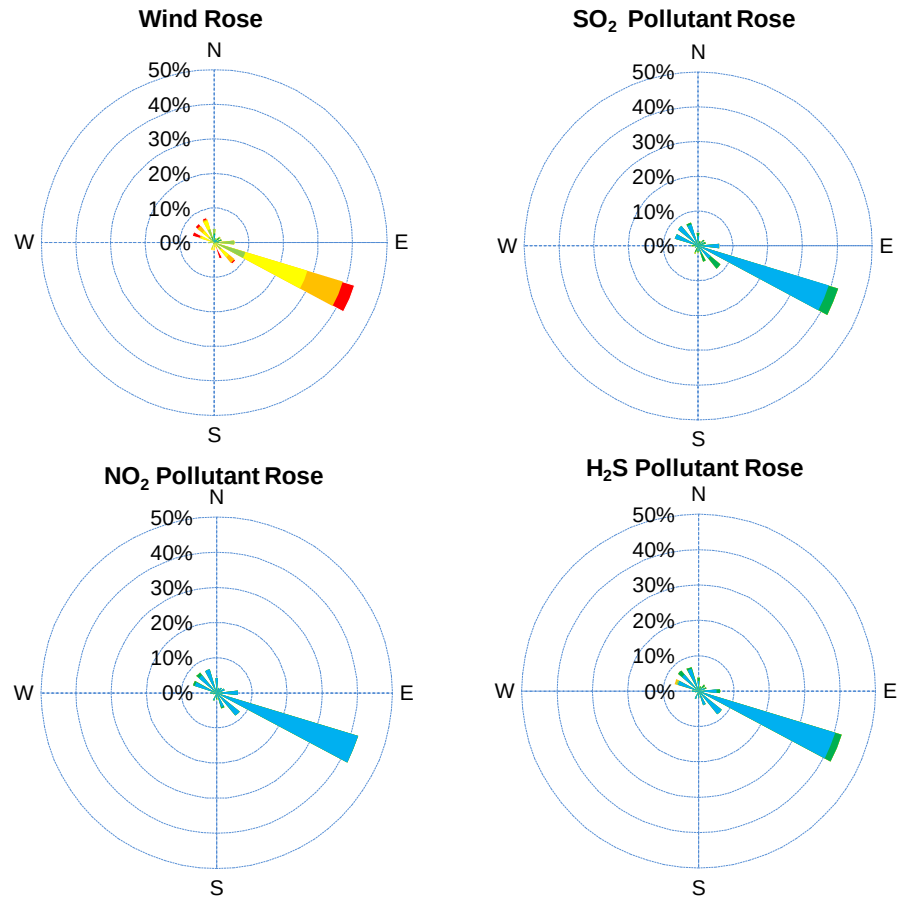
Monthly Update

*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 are less than 90% operational, the station was not operational after July 10 due to power issues on site.

SESAA Stoughton Station - July 2021 Summary Report

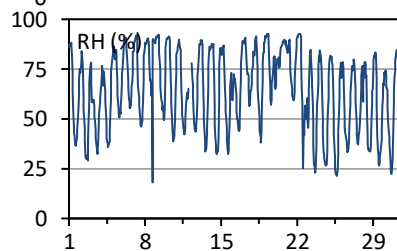
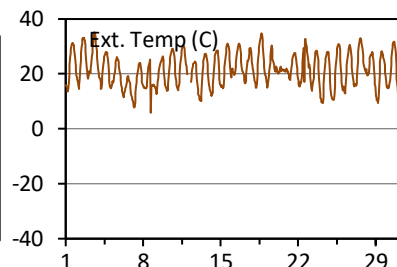
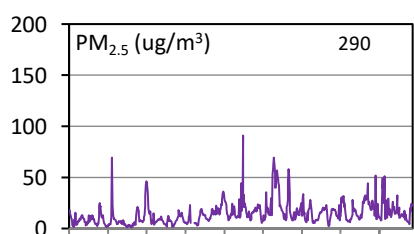
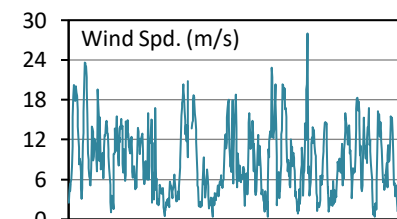
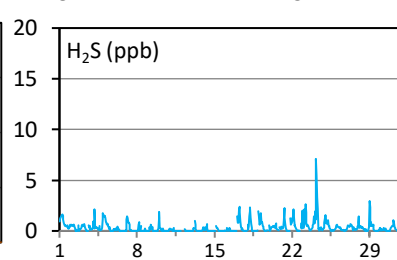
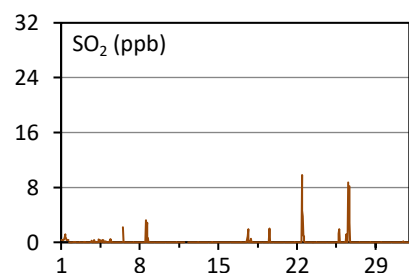
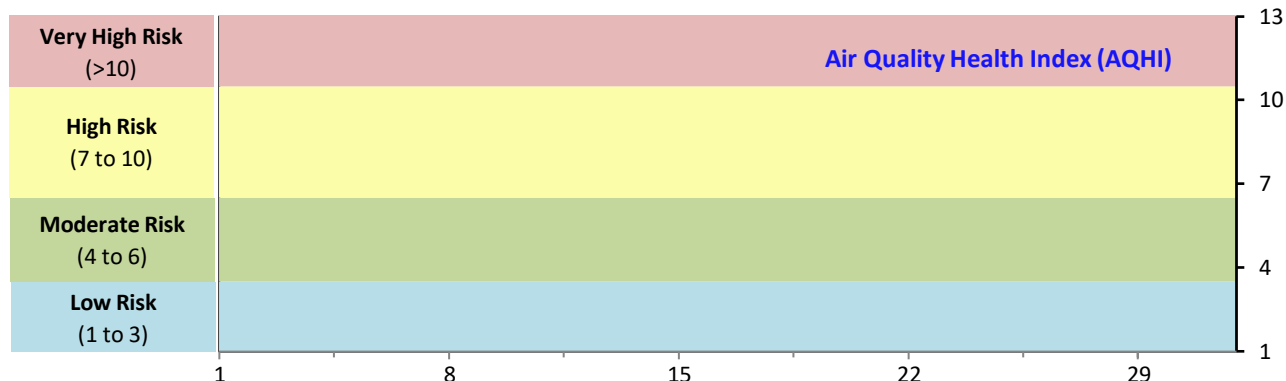


Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$	
SO ₂	ppb	$0 \leq C < 1$	$1 \leq C < 5$	$5 \leq C < 10$	$10 \leq C < 57$	$57 \leq C < 172$	$C \geq 172$	
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	$0 \leq C < 1$	$1 \leq C < 3.6$	$3.6 \leq C < 5$	$5 \leq C < 8$	$8 \leq C < 10.8$	$C \geq 10.8$	

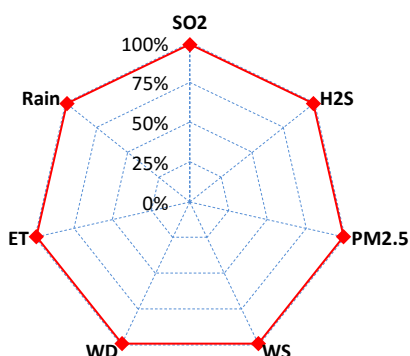
SESAA Weyburn Station - July 2021 Summary Report

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	99.0%	< 0.1	Jul-29	48	0	9.8	Jul-22 10:00	172	0
H ₂ S	ppb	0.3	99.0%	1.3	Jul-24	3.6	0	7.1	Jul-24 04:00	11	0
PM _{2.5}	ug/m3	15	99.1%	40	Jul-19	28	1	91	Jul-16 16:00	-	-

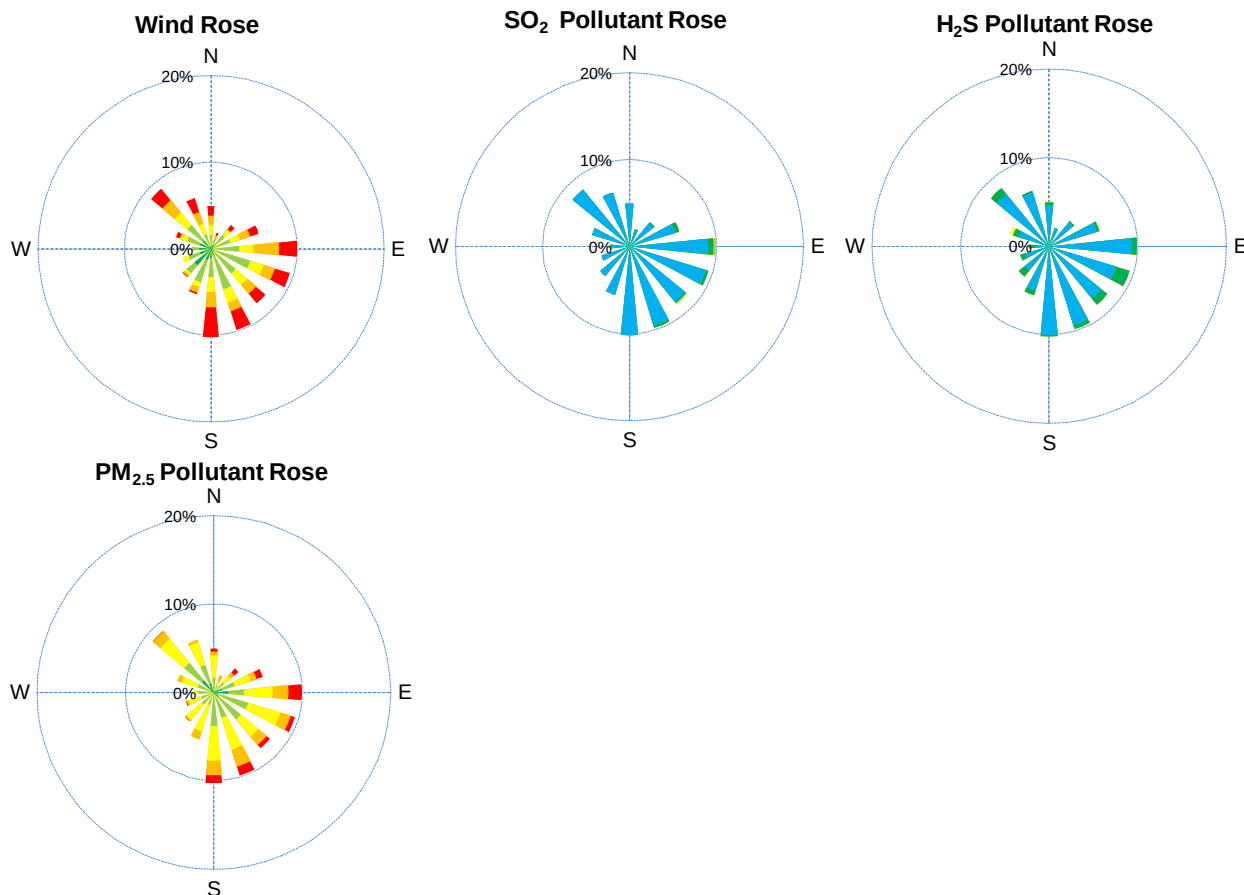
SAAQS: Saskatchewan Ambient Air Quality Standards



Instrument Uptime (%)



SESAA Weyburn Station - July 2021 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	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$

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 one 24-hour PM_{2.5} exceedance event. Please refer to the exceedance summary table for details. The PM_{2.5} event is attributed to wildfire smoke in the region.

*All compliance parameters are above 90% operational.

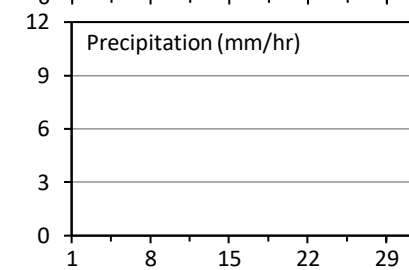
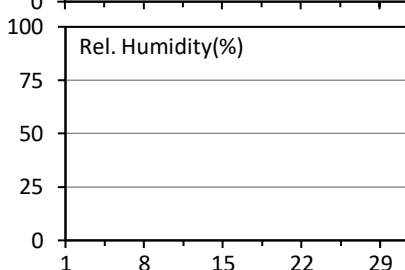
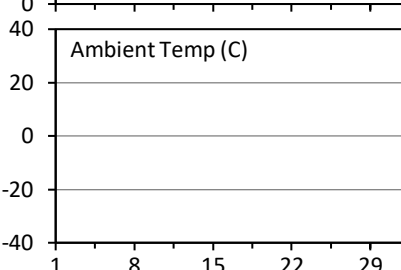
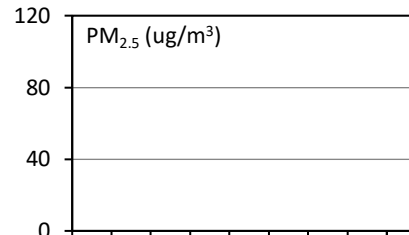
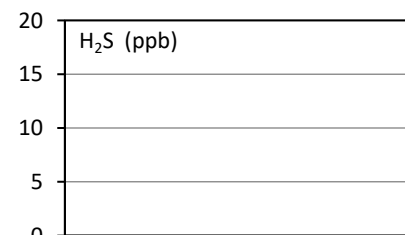
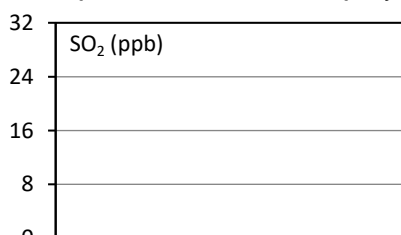
*7 hours of data for all parameters is flagged as "power failure" throughout the month due to intermittent power disruptions.

24-hour Exceedance Information			WS	WD	AQHI	Rain	SO ₂	NO ₂	O ₃	H ₂ S	PM _{2.5}
PM _{2.5}	40	Jul-19	10.6	105	-	0.0	-	-	-	0.4	40

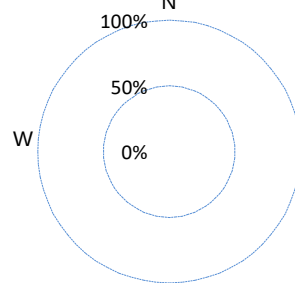
SESAA Wauchope Station - July 2021 Summary Report

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	#VALUE!	0.0%	< 0.1	#N/A	48	0	< 0.1	-	172	0
H ₂ S	ppb	#VALUE!	0.0%	< 0.1	#N/A	3.6	0	< 0.1	-	11	0
PM _{2.5}	ug/m ³	#VALUE!	0.0%	< 1	#N/A	28	0	< 1	-	-	-

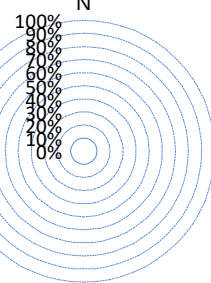
SAAQS: Saskatchewan Ambient Air Quality Standards



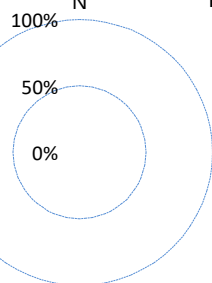
Wind Rose



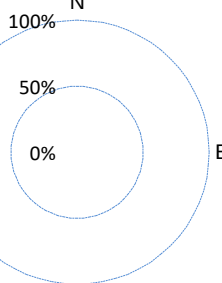
SO₂ Rose



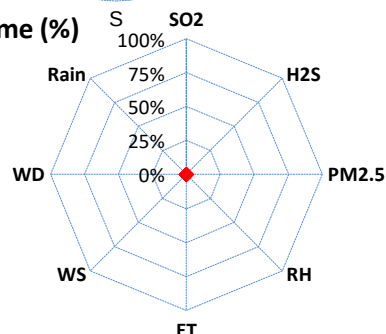
H₂S Rose



PM_{2.5} Rose



Uptime (%)



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

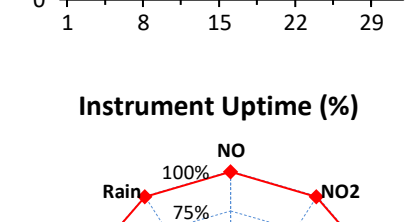
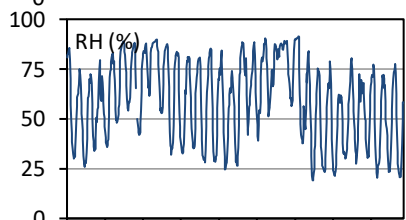
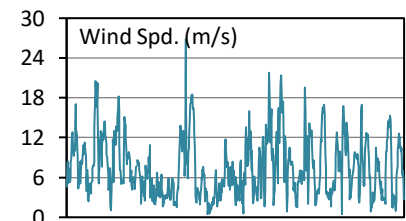
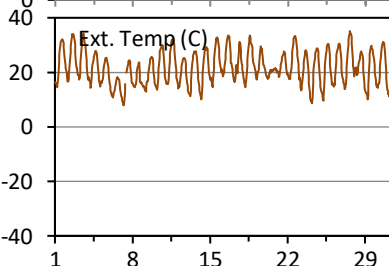
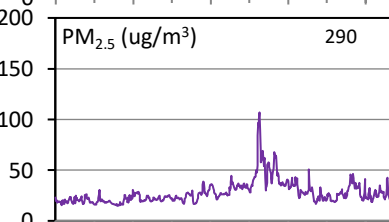
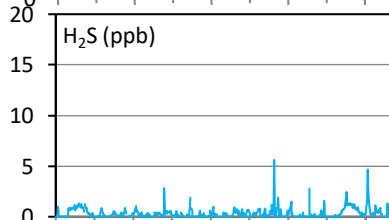
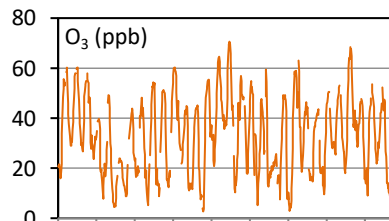
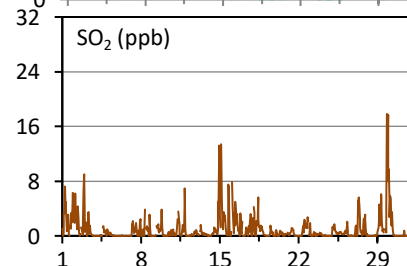
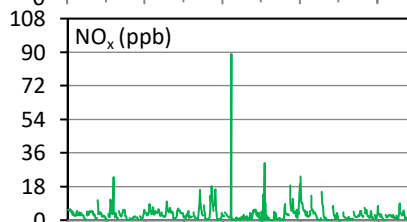
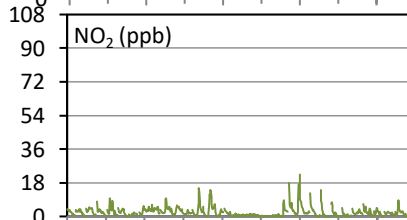
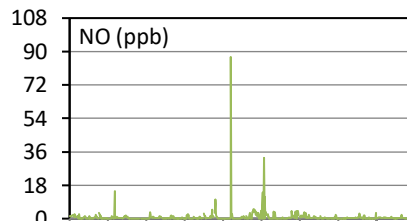
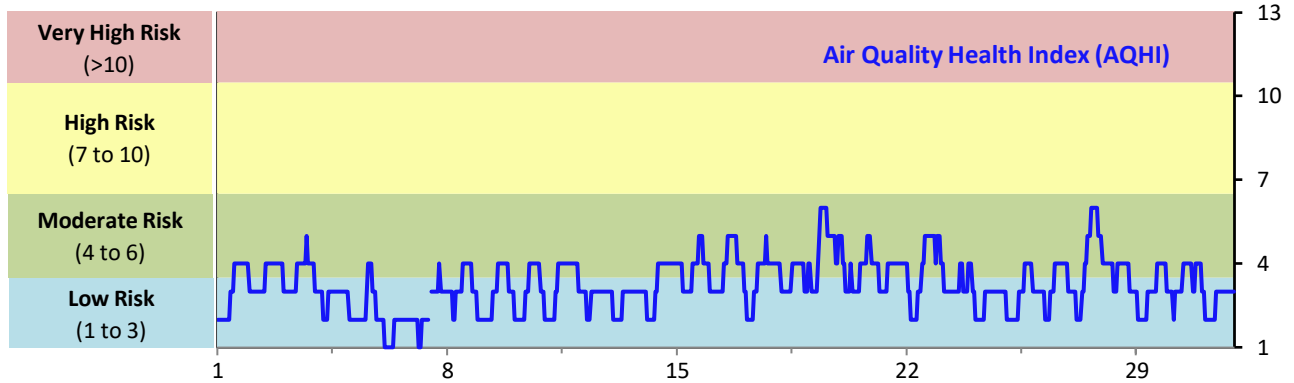
Monthly Update

*Wauchope was not operational in July

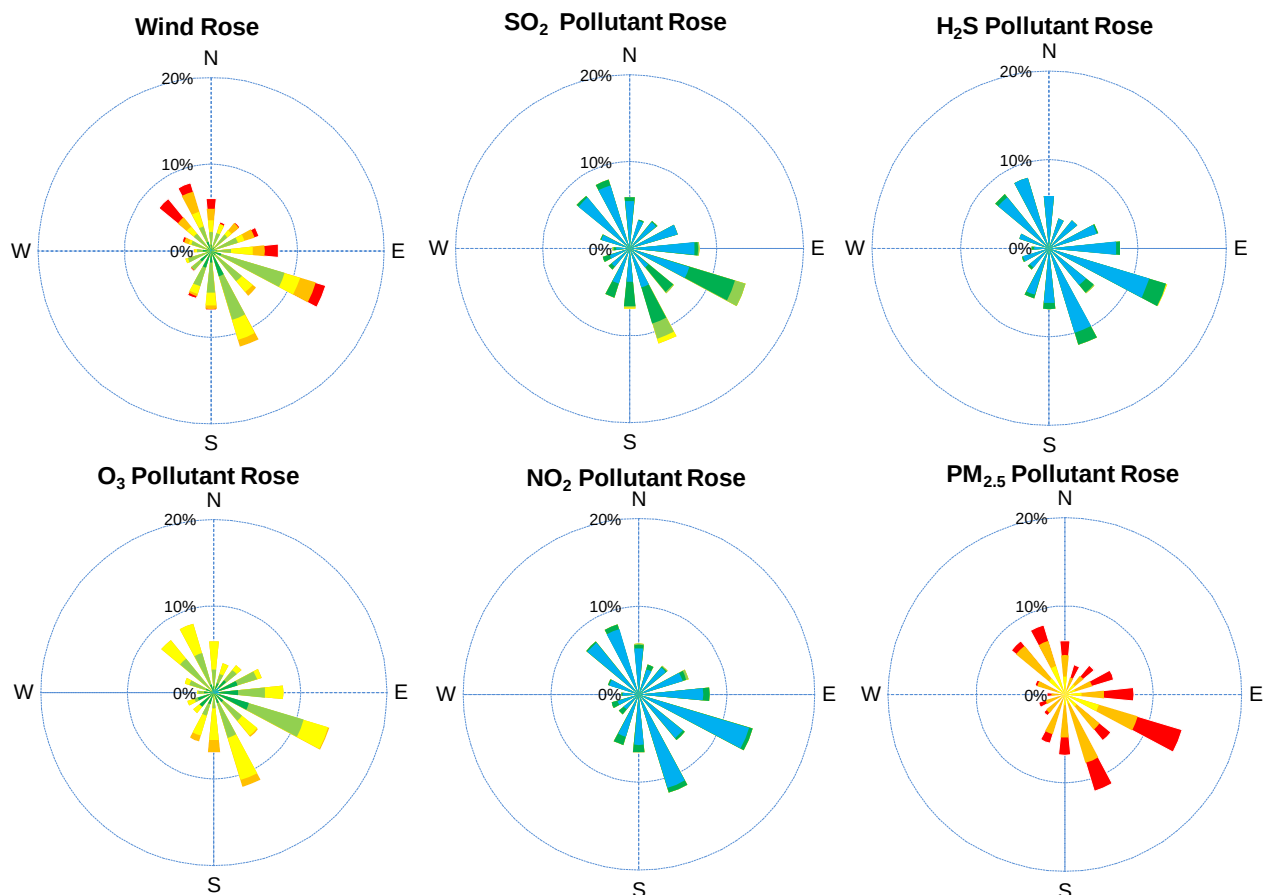
SESAA Weyburn Station - July 2021 Summary Report

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	0.8	99.6%	1.7	Jul-21	-	-	87.1	Jul-15 17:00	-	-
NO ₂	ppb	2.3	99.6%	5.7	Jul-21	106	0	22.4	Jul-21 23:00	159	0
NO _x	ppb	3.1	99.6%	7.4	Jul-21	-	-	89.0	Jul-15 17:00	-	-
SO ₂	ppb	1.0	99.7%	4.1	Jul-29	48	0	17.8	Jul-29 20:00	172	0
O ₃	ppb	33	99.7%	50	Jul-16	-	-	71	Jul-16 15:00	82	0
H ₂ S	ppb	0.3	99.7%	1.2	Jul-27	3.6	0	5.6	Jul-20 17:00	11	0
PM _{2.5}	ug/m3	27	99.7%	65	Jul-19	28	11	107	Jul-19 10:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Weyburn Station - July 2021 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	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$

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 eleven 24-hour PM_{2.5} exceedance events. Please refer to the exceedance summary table for details. The PM_{2.5} events are attributed to wildfire smoke in the region.

*All compliance parameters are above 90% operational.

*2-3 hours of data for all parameters is flagged as "power failure" throughout the month due to intermittent power disruptions.

24-hour Exceedance Information			WS	WD	AQHI	Rain	SO ₂	NO ₂	O ₃	H ₂ S	PM _{2.5}
PM _{2.5}	65	Jul-19	11.2	92	5	0.0	-	-	31	0.3	65
PM _{2.5}	51	Jul-20	11.9	95	4	0.2	0.3	2.0	22	0.5	51
PM _{2.5}	38	Jul-21	7.3	159	4	0.0	-	5.7	29	-	38
PM _{2.5}	35	Jul-22	6.5	161	4	0.0	-	4.0	35	-	35
PM _{2.5}	35	Jul-18	5.5	162	4	0.0	1.5	-	37	0.3	34
PM _{2.5}	34	Jul-17	7.9	121	3	0.0	-	0.7	36	0.4	34
PM _{2.5}	33	Jul-27	6.7	150	4	0.0	1.7	2.8	43	1.2	33
PM _{2.5}	29	Jul-14	2.8	187	3	0.0	1.6	2.7	32	-	29
PM _{2.5}	29	Jul-28	9.0	251	4	0.0	-	1.9	36	0.5	29
PM _{2.5}	29	Jul-16	5.1	150	4	0.0	2.1	0.7	50	-	29
PM _{2.5}	29	Jul-23	8.3	261	3	0.0	0.2	-	33	-	29