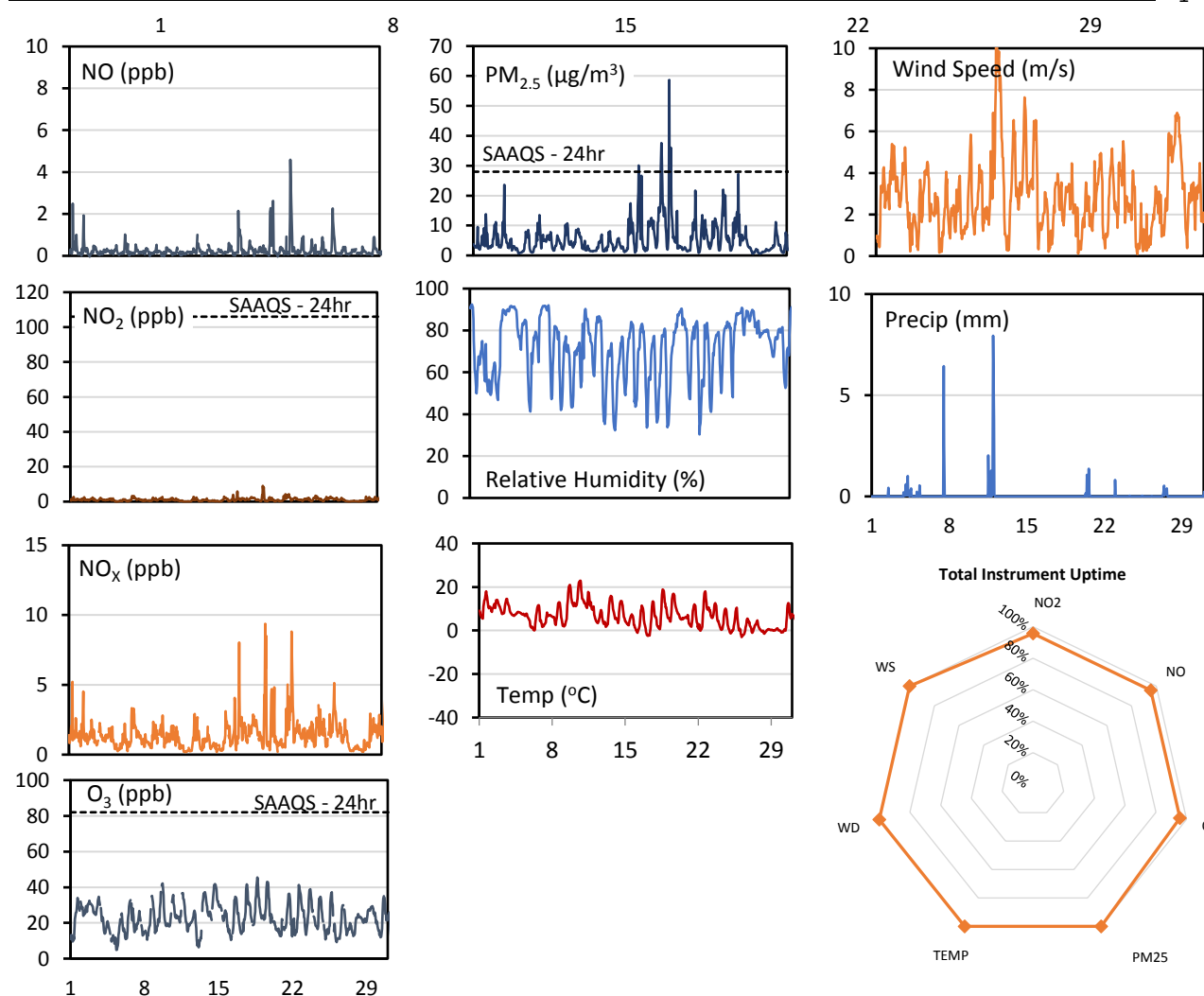
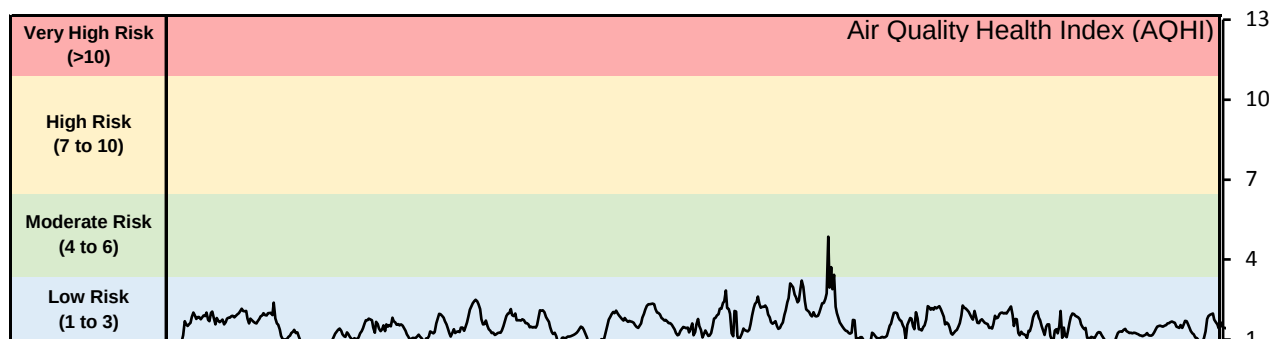


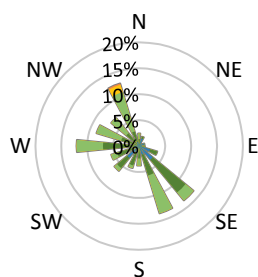
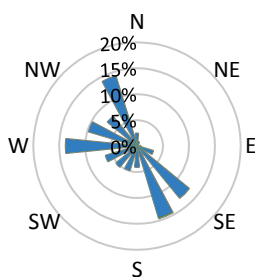
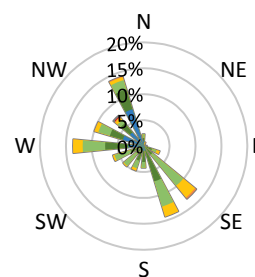
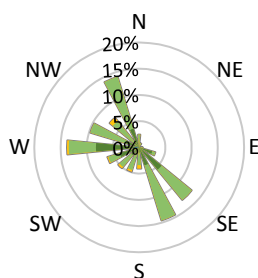
SESAA Esterhazy Station - October 2015 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Total Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.3	96%	0.8	Oct-22	-	-	4.6	Oct-22 09:00	-	-
NO ₂	ppb	1.1	96%	2.2	Oct-22	106	0	9.0	Oct-19 20:00	159	0
NO _x	ppb	1.4	96%	3.0	Oct-22	-	-	9.4	Oct-19 20:00	-	-
O ₃	ppb	22.9	96%	31.8	Oct-14	-	-	45.5	Oct-18 16:00	82	0
PM _{2.5}	µg/m ³	5.5	100%	18.2	Oct-19	28	0	58.7	Oct-19 18:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Wind Rose


NO₂ Pollutant Rose

PM_{2.5} Pollutant Rose

O₃ Pollutant Rose


Parameters	Unit	Color Code for Wind Speed and Pollution Concentration Class					
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$
O ₃	ppb	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$
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	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$

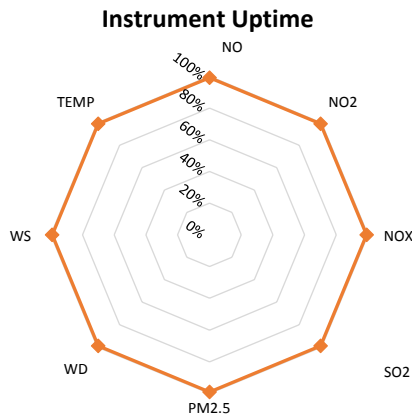
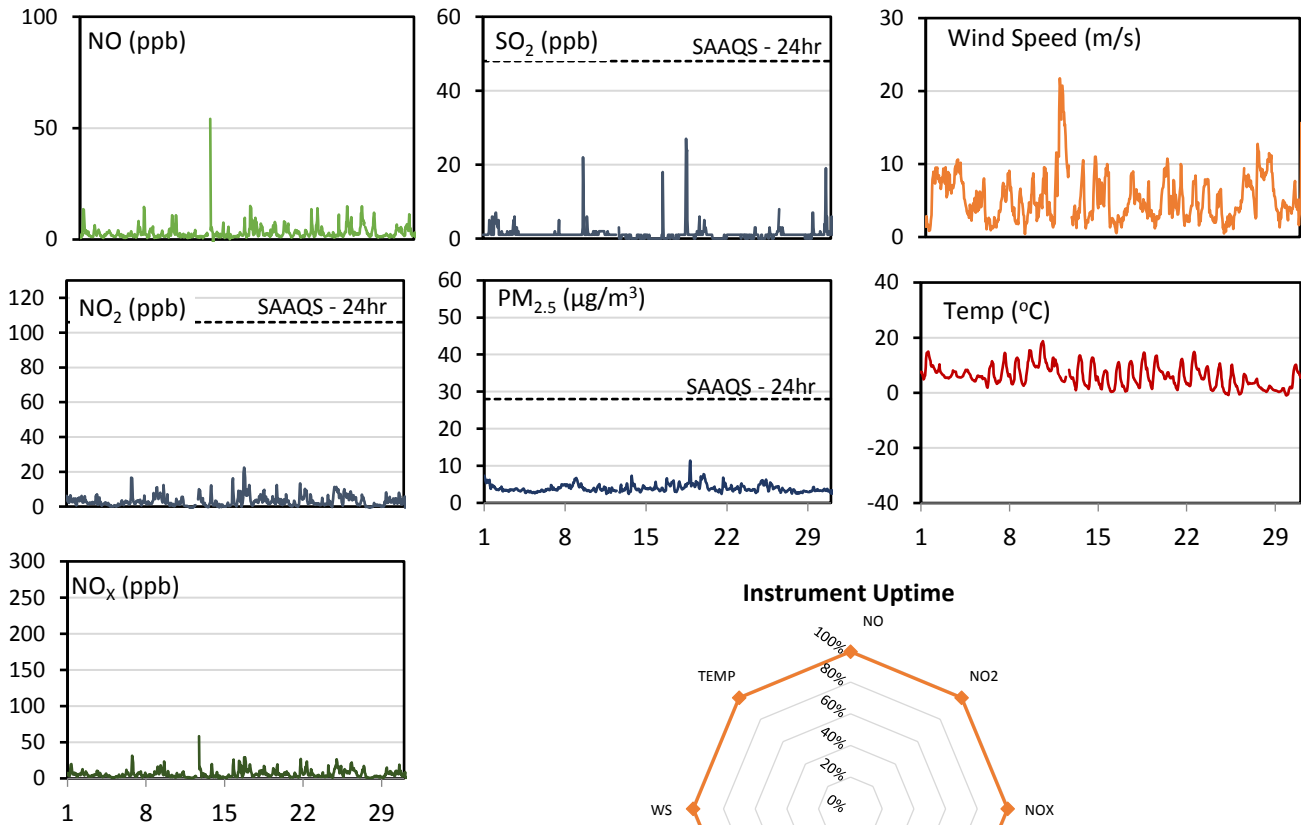
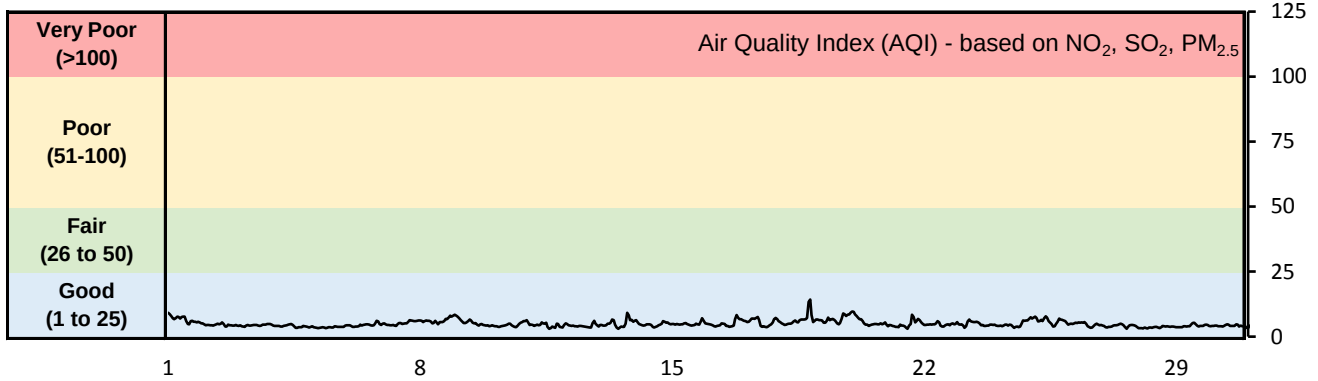
Monthly Update

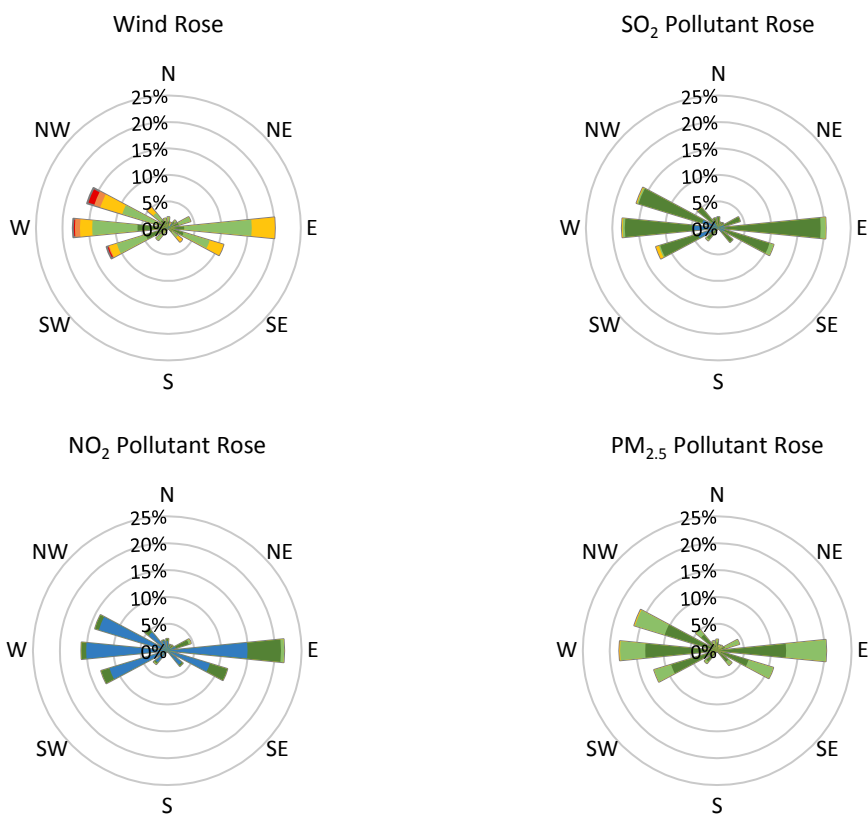
- Achieved 100% of scheduled uptime
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity; no operational issues

SESAA Estevan Station - October 2015 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	3.0	99%	5.7	Oct-26	-	-	54.2	Oct-12 17:00	-	-
NO ₂	ppb	3.1	99%	6.6	Oct-16	106	0	22.4	Oct-16 19:00	159	0
NO _x	ppb	6.1	99%	12.0	Oct-16	-	-	58.3	Oct-12 17:00	-	-
SO ₂	ppb	1.3	99%	4.3	Oct-18	48	0	27.0	Oct-18 12:00	172	0
PM _{2.5}	µg/m ³	3.9	99%	5.4	Oct-19	28	0	11.4	Oct-18 20:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards





Parameters	Unit	Color Code for Wind Speed and Pollution Concentration 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	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C < 212$	$C \geq 212$	
SO ₂	ppb	$1 \leq C < 5$	$6 \leq C < 15$	$16 \leq C < 30$	$31 \leq C < 100$	$101 \leq C < 212$	$C \geq 213$	
PM _{2.5}	$\mu\text{g}/\text{m}^3$	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

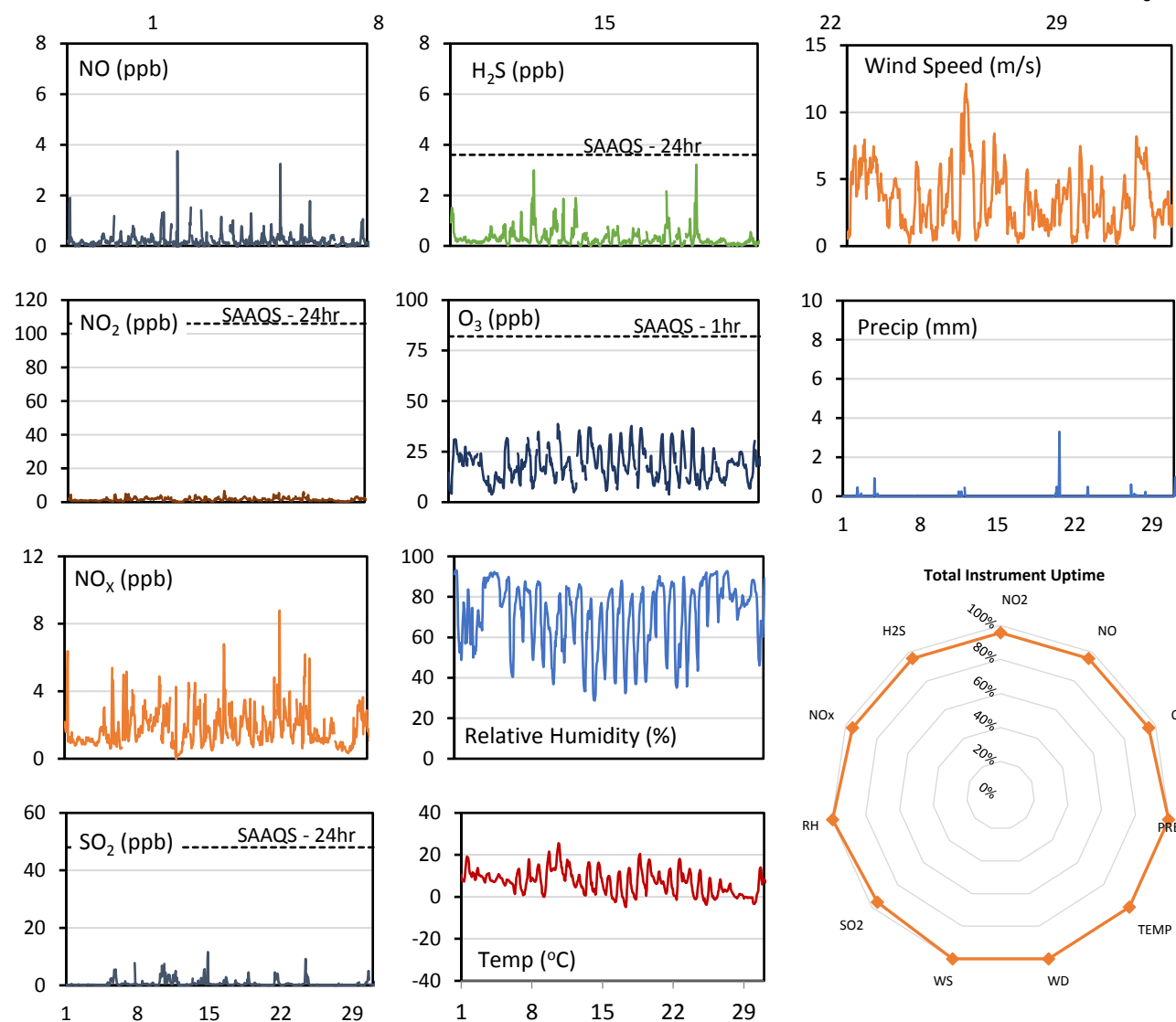
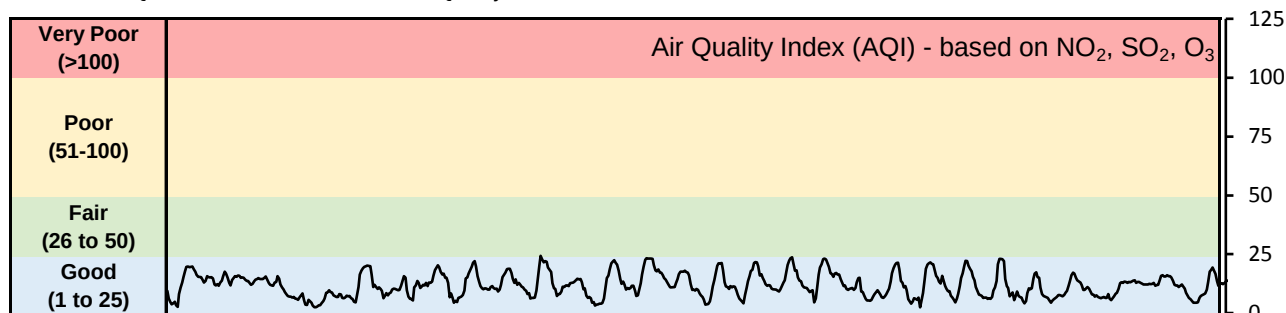
Monthly Update

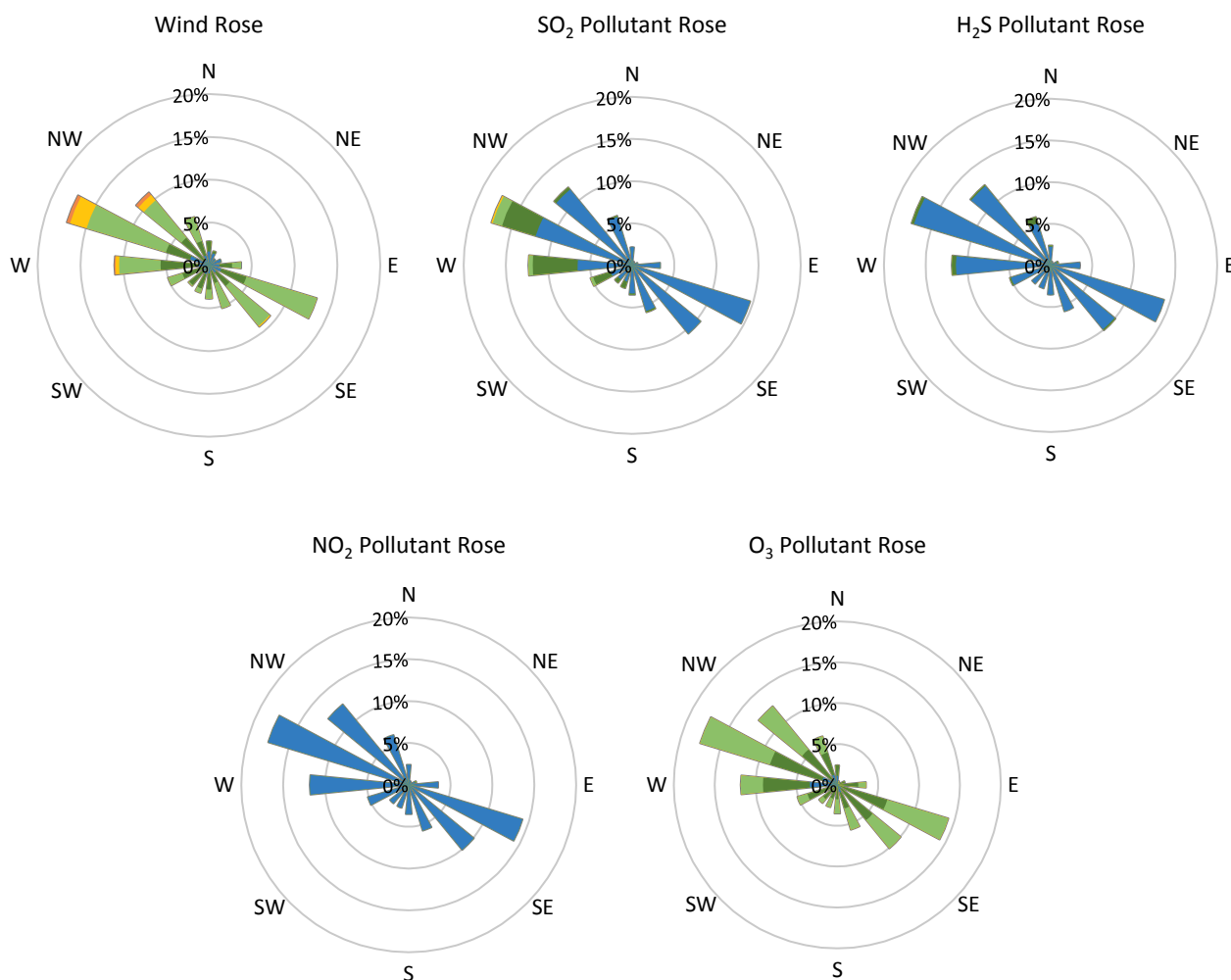
- Achieved 99.6% of scheduled uptime
- Downtime due to operational issues
- All compliance parameters are above 90% data validity; no operational issues

SESAA Glen Ewen Station - October 2015 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Total Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.2	96%	0.4	Oct-22	-	-	3.7	Oct-12 01:00	-	-
NO ₂	ppb	1.5	96%	2.4	Oct-24	106	0	6.7	Oct-16 19:00	159	0
NO _x	ppb	1.8	96%	2.8	Oct-22	-	-	8.8	Oct-22 08:00	-	-
SO ₂	ppb	0.7	96%	2.8	Oct-10	48	0	11.6	Oct-14 21:00	172	0
H ₂ S	ppb	0.3	96%	0.7	Oct-09	3.6	0	3.2	Oct-25 00:00	11	0
O ₃	ppb	18.5	96%	25.0	Oct-14	-	-	38.7	Oct-11 14:00	82	0

SAAQS: Saskatchewan Ambient Air Quality Standards





Parameters	Unit	Color Code for Wind Speed and Pollution Concentration 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	$0 \leq C < 1$	$1 \leq C < 3.6$	$3.6 \leq C < 5$	$5 \leq C < 8$	$8 \leq C < 10.8$	$C \geq 10.8$
O ₃	ppb	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$

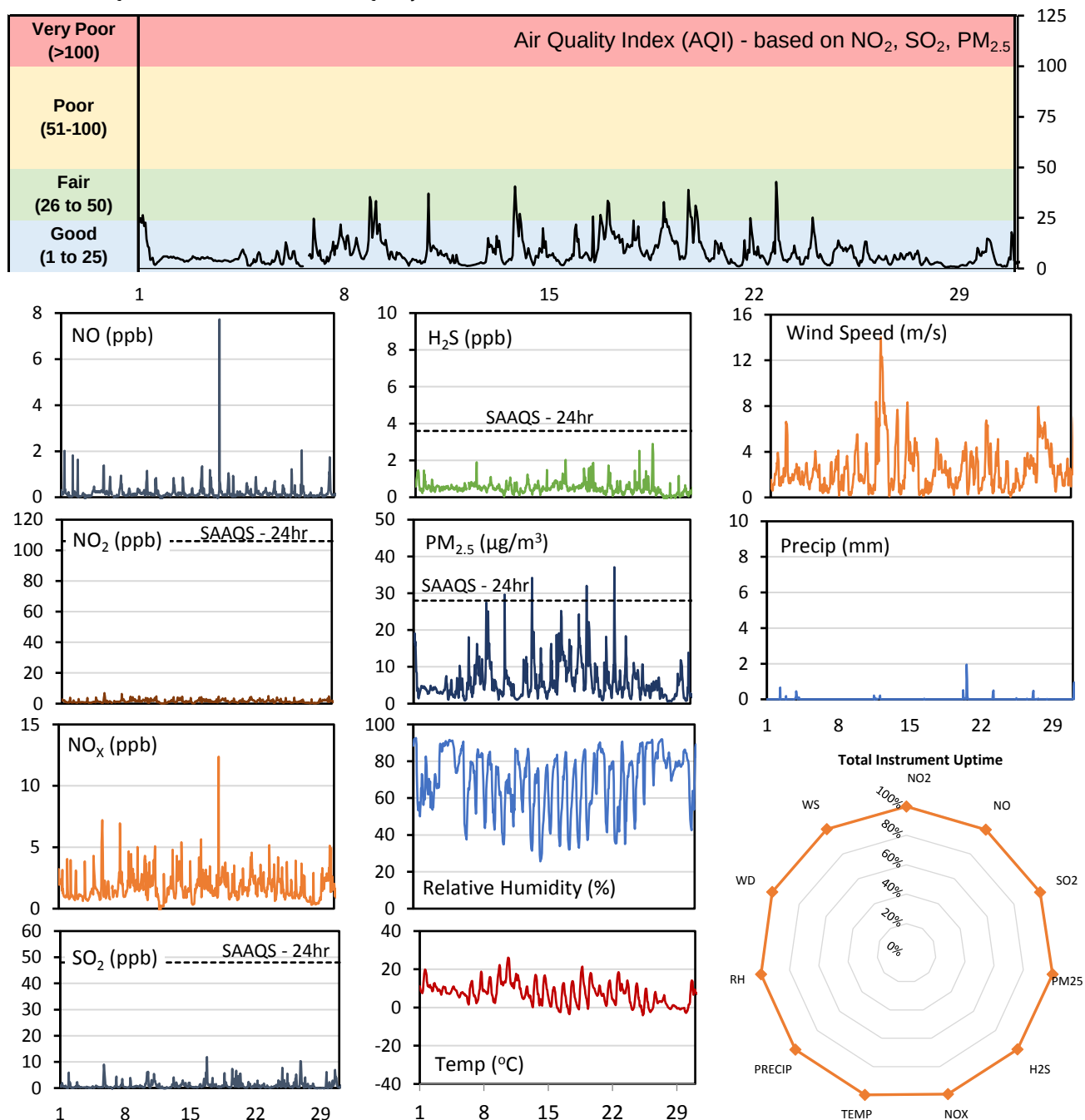
Monthly Update

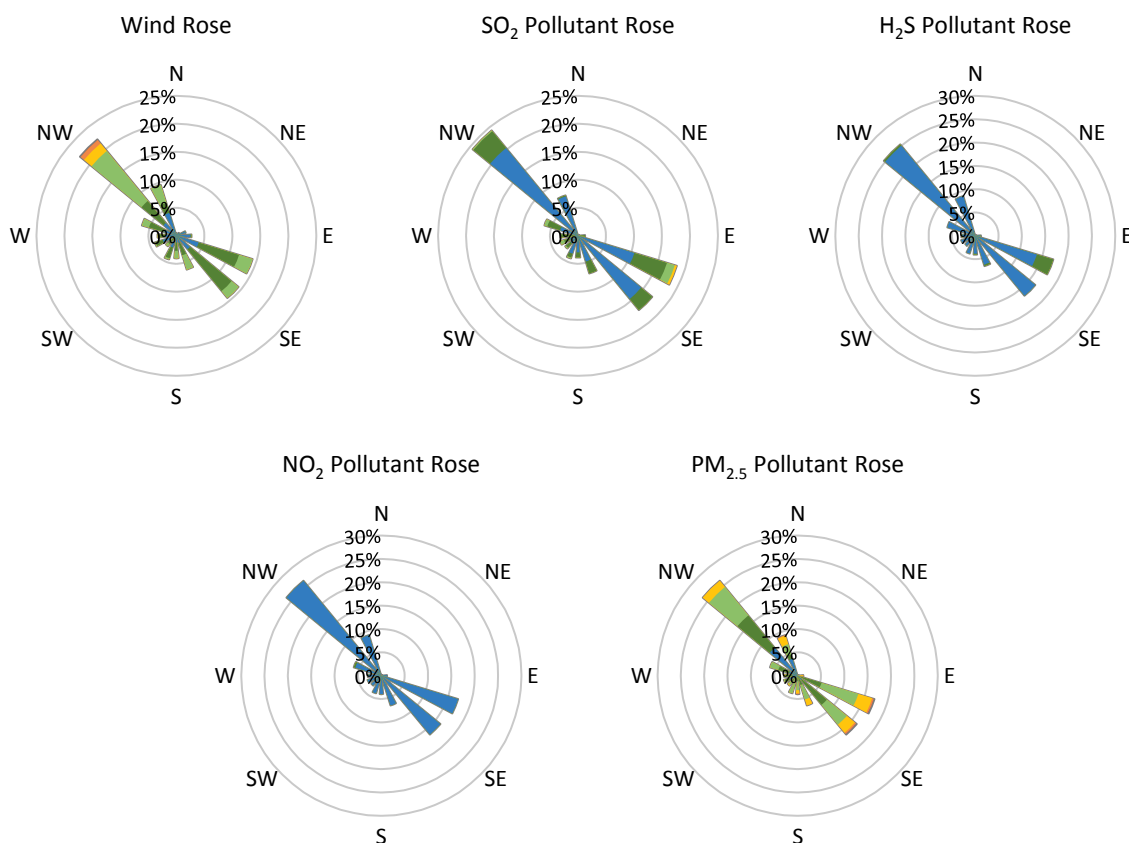
- Achieved 100% of scheduled uptime
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity; no operational issues

SESAA Oxbow Station - October 2015 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Total Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.2	99%	0.5	Oct-18	-	-	7.7	Oct-18 10:00	-	-
NO ₂	ppb	1.5	99%	2.2	Oct-30	106	0	6.9	Oct-05 18:00	159	0
NO _x	ppb	1.7	99%	2.5	Oct-30	-	-	12.4	Oct-18 10:00	-	-
SO ₂	ppb	1.0	99%	2.6	Oct-26	48	0	11.9	Oct-16 19:00	172	0
H ₂ S	ppb	0.5	99%	0.9	Oct-26	3.6	0	2.9	Oct-26 21:00	11	0
PM _{2.5}	µg/m ³	6.0	100%	12.2	Oct-17	28	0	37.1	Oct-22 18:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards





Parameters	Unit	Color Code for Wind Speed and Pollution Concentration 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}	µg/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30	

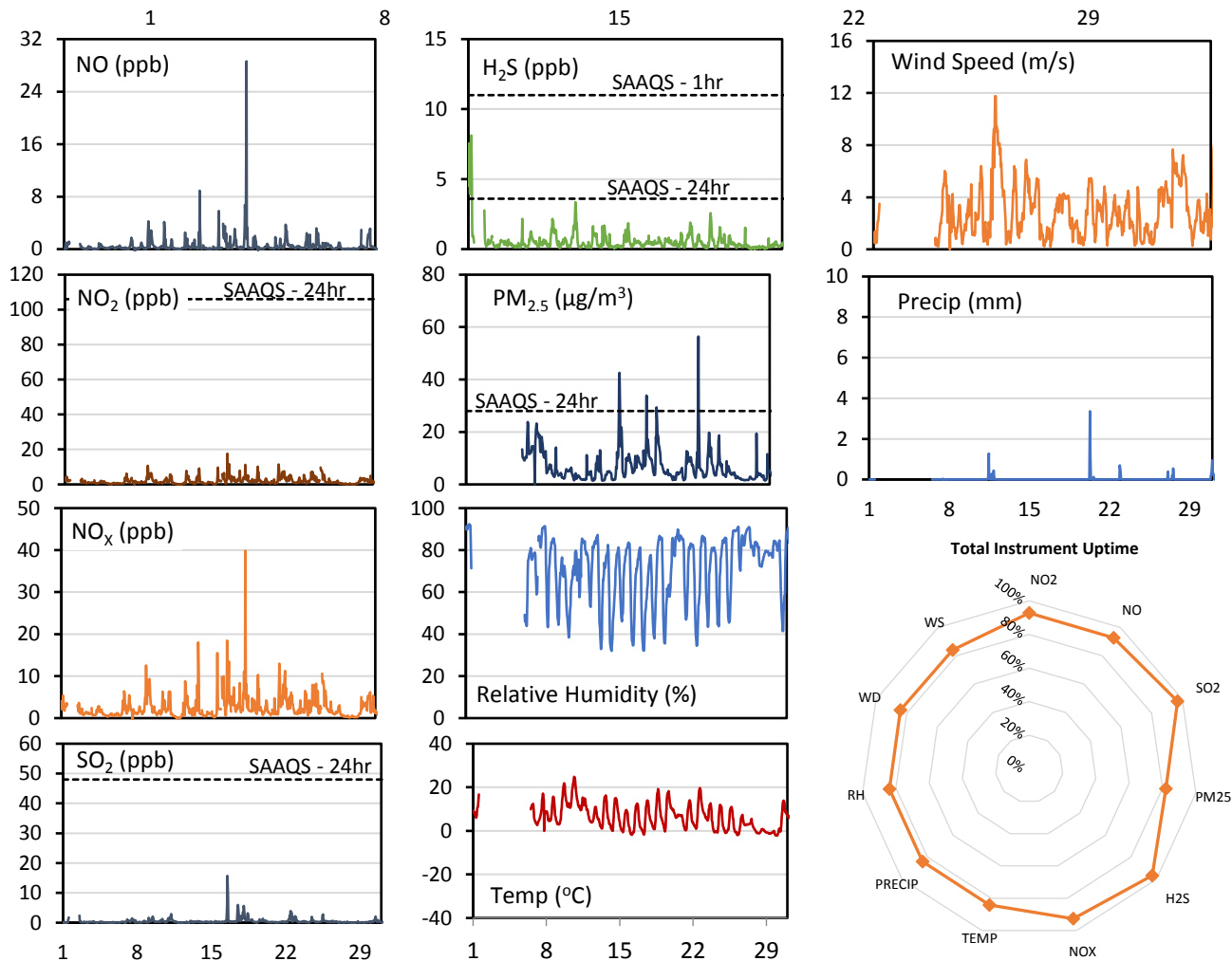
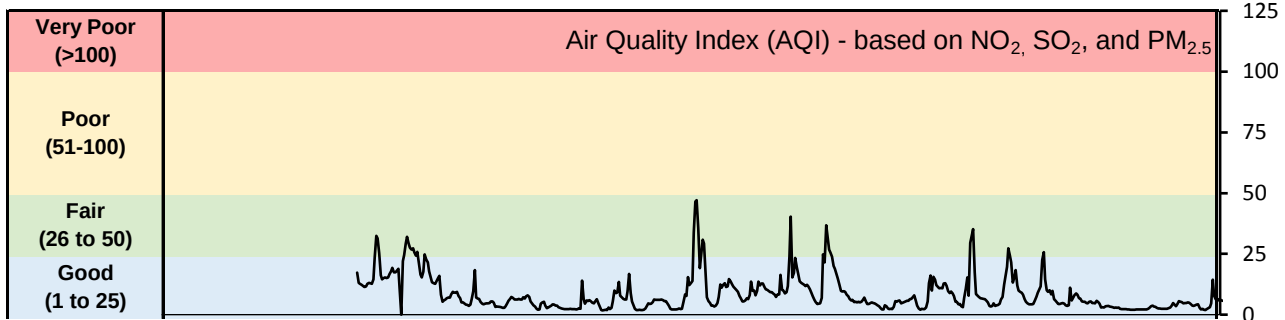
Monthly Update

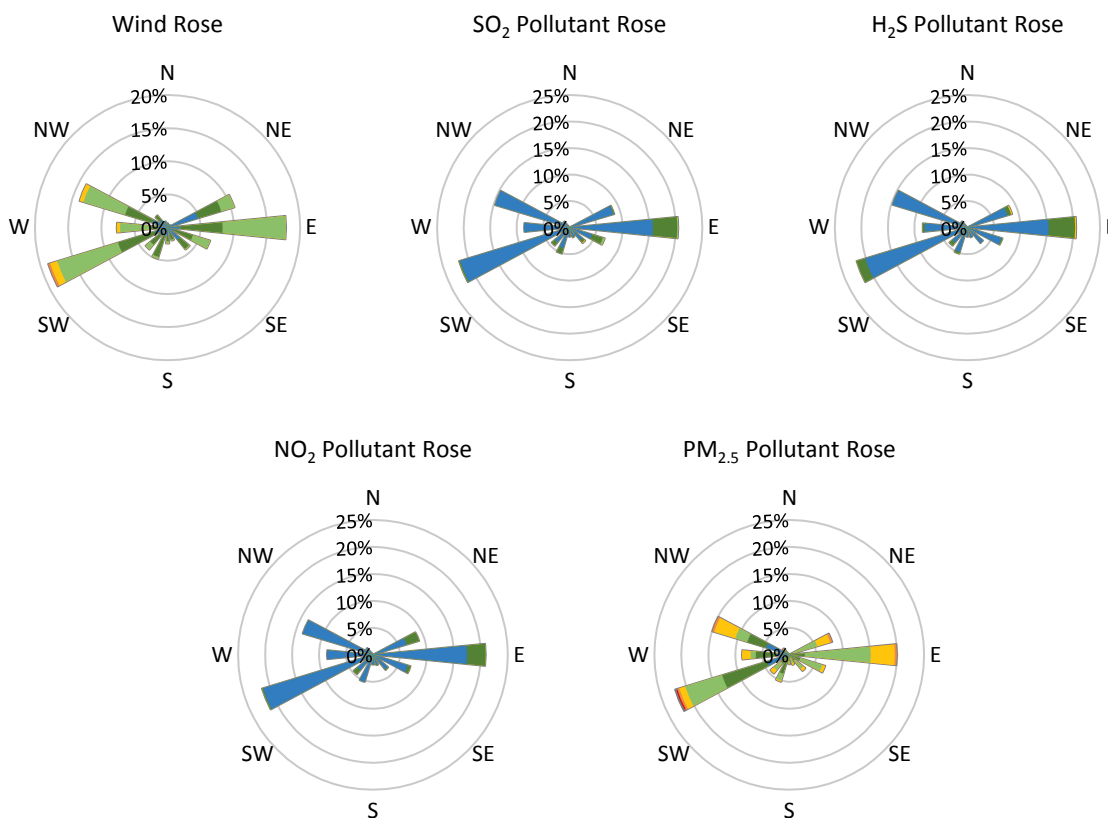
- Achieved 100% of scheduled uptime
- Downtime of <1% resulting from routine maintenance
- All compliance parameters are above 90% data validity; no operational issues

SESAA Stoughton Station - October 2015 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Total Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.5	93%	2.5	Oct-18	-	-	28.6	Oct-18 14:00	-	-
NO ₂	ppb	2.0	93%	4.1	Oct-22	106	0	17.6	Oct-16 20:00	159	0
NO _x	ppb	2.5	93%	5.9	Oct-18	-	-	39.8	Oct-18 14:00	-	-
SO ₂	ppb	0.5	97%	1.6	Oct-16	48	0	15.7	Oct-16 12:00	172	0
H ₂ S	ppb	0.5	97%	4.2	Oct-01	3.6	1	8.1	Oct-01 07:00	11	0
PM _{2.5}	µg/m ³	6.6	82%	14.6	Oct-07	28	0	56.4	Oct-23 23:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards





Parameters	Unit	Color Code for Wind Speed and Pollution Concentration 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}	$\mu\text{g}/\text{m}^3$	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$

Monthly Update

- Achieved over 96% of scheduled uptime for NO, NO₂, and NO_x; 97% for H₂S and SO₂; 82% for PM_{2.5}; and 84% for weather
- Downtime due to operational issues and routine daily Internal Zeroes and Spans

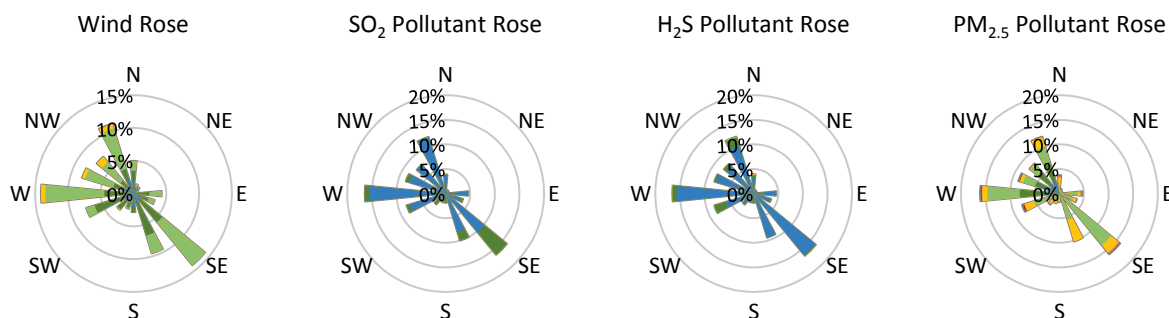
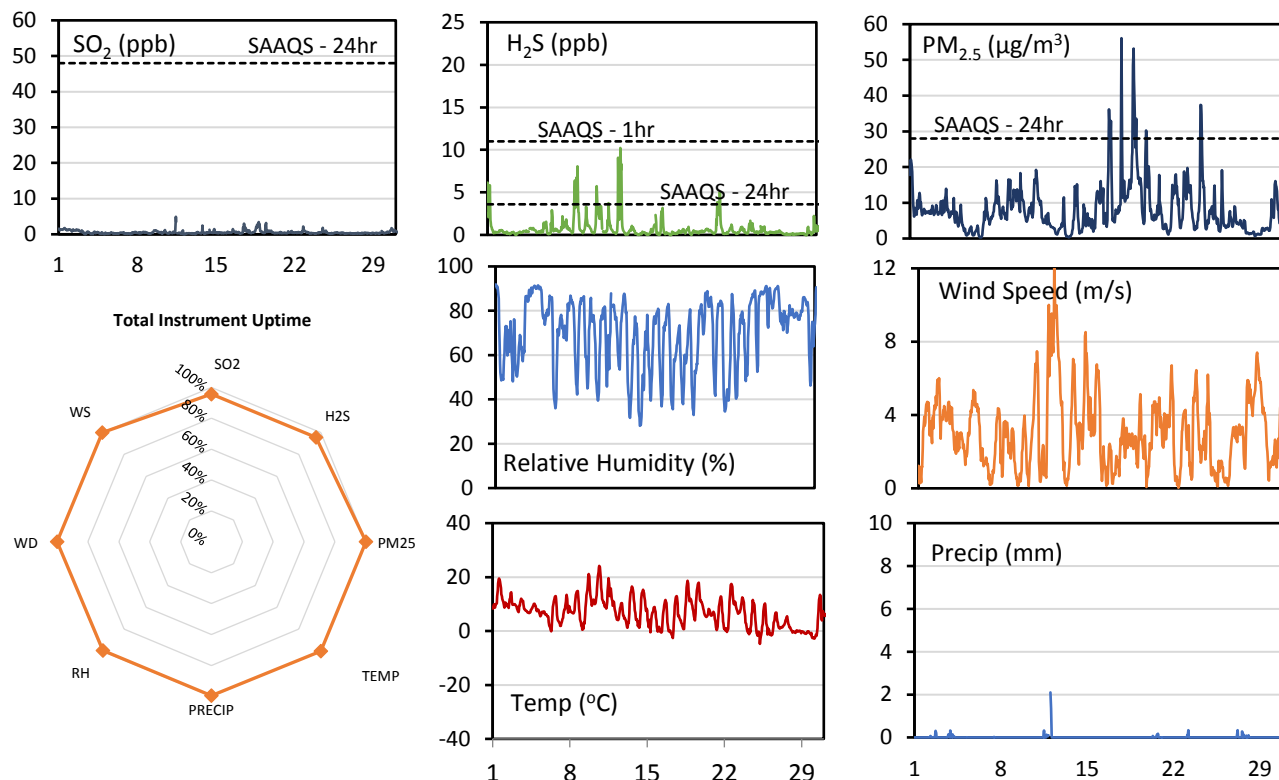
Exceedance Summary (24- Hour Average - Exceedances Highlighted)

Exceedance	AQI	NO ₂	NO	SO ₂	PM _{2.5}	NO _x	H ₂ S	Temp	WD	WS
Day	-	ppb	ppb	ppb	$\mu\text{g}/\text{m}^3$	ppb	ppb	C	deg	m/s
Oct-01	N/A	2.6	0.5	0.3	N/A	3.1	4.2	9.3	176.2	1.4

SESAA Wauchope Station - October 2015 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Total Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
SO ₂	ppb	0.6	96%	1.4	Oct-01	48	0	4.9	Oct-11 10:00	172	0
H ₂ S	ppb	0.7	96%	2.3	Oct-09	3.6	0	10.2	Oct-13 03:00	11	0
PM _{2.5}	µg/m ³	7.8	100%	20.7	Oct-18	28	0	56.1	Oct-17 20:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Parameters	Unit	Color Code for Wind Speed and Pollution Concentration 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}	µg/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30

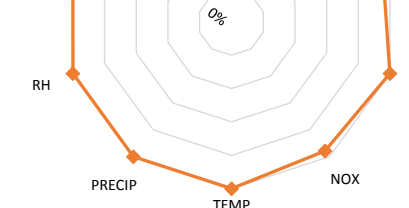
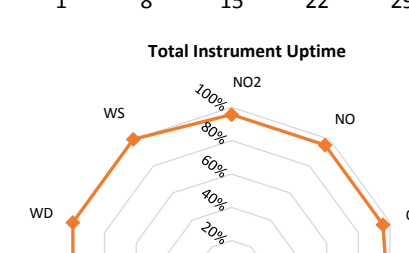
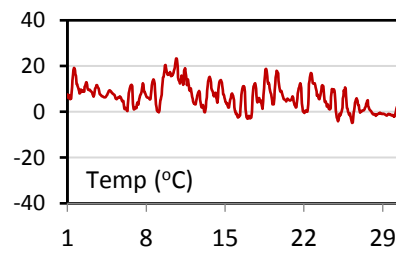
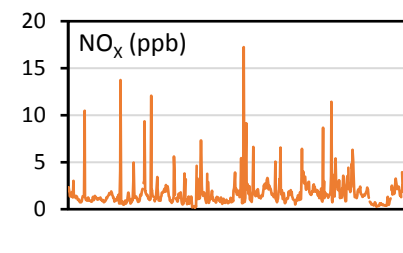
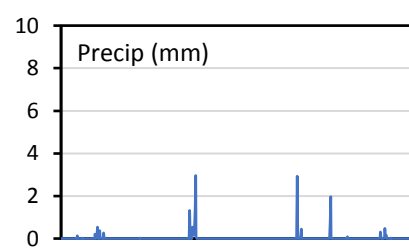
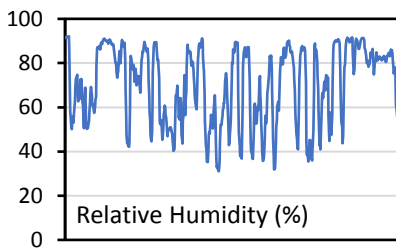
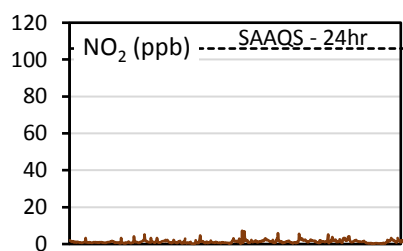
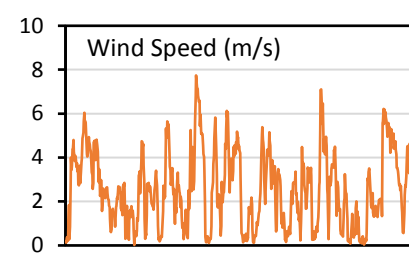
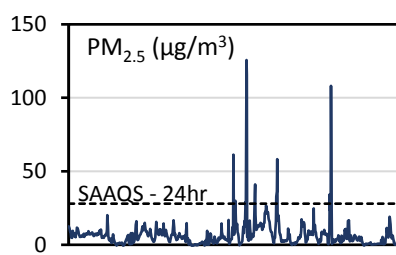
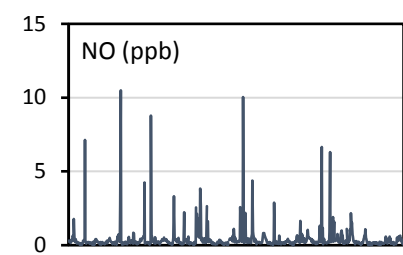
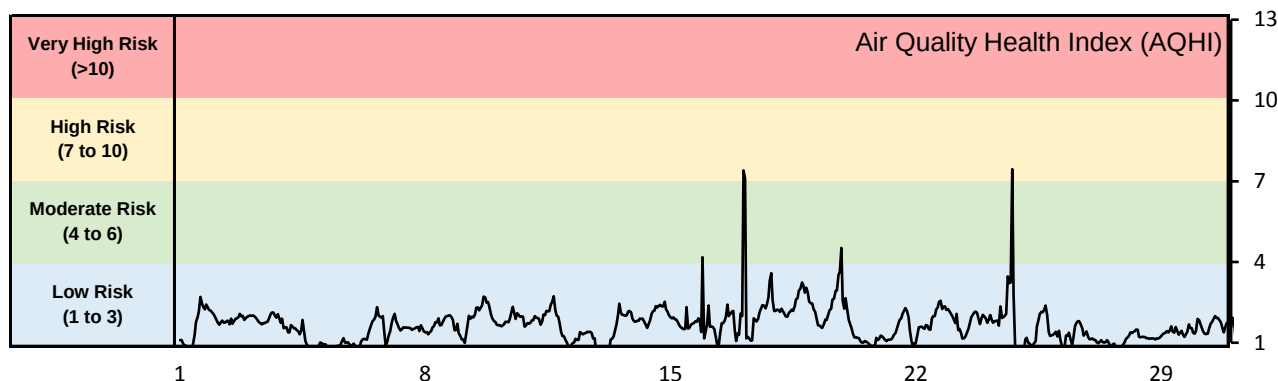
Monthly Update

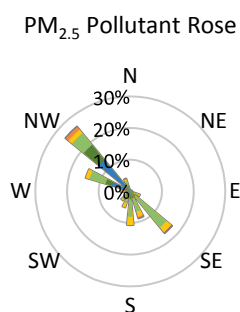
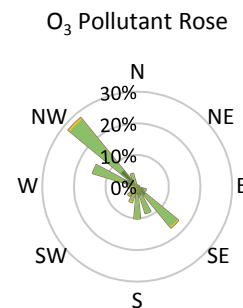
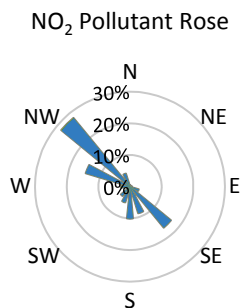
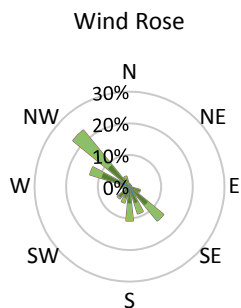
- Achieved 100% of scheduled uptime
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity; no operational issues

SESAA Wawota Station - October 2015 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	96%	0.9	Oct-16	-	-	10.5	Oct-05 16:00	-	-
NO ₂	ppb	1.3	96%	2.0	Oct-26	106	0	7.2	Oct-16 15:00	159	0
NO _x	ppb	1.7	96%	2.9	Oct-16	-	-	17.2	Oct-16 15:00	-	-
O ₃	ppb	23.8	96%	34.6	Oct-14	-	-	45.0	Oct-19 16:00	82	0
PM _{2.5}	µg/m ³	6.5	100%	21.6	Oct-17	28	0	125.7	Oct-17 02:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards





Parameters	Unit	Color Code for Wind Speed and Pollution Concentration 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	
O ₃	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82	
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
PM _{2.5}	µg/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30	

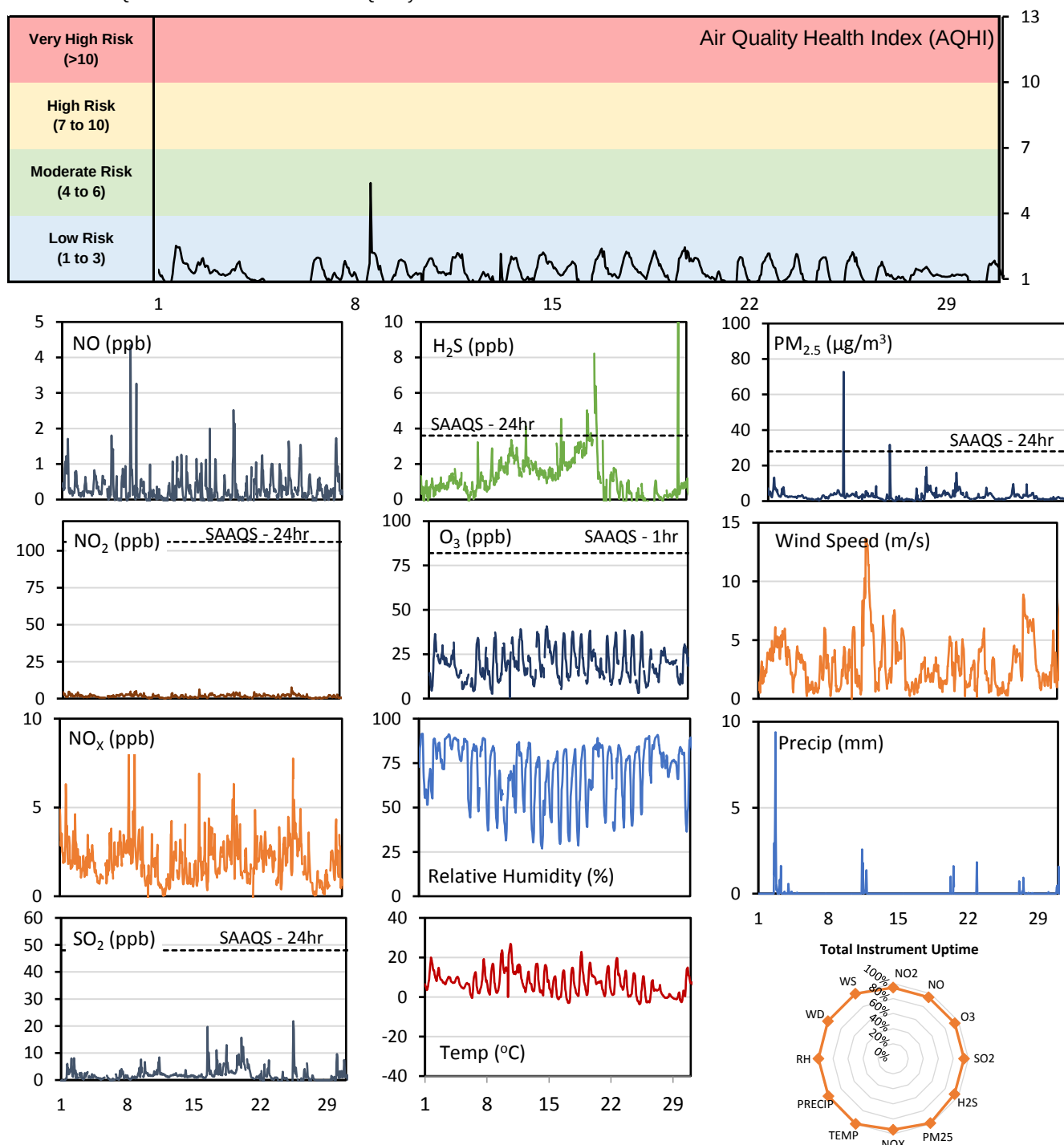
Monthly Update

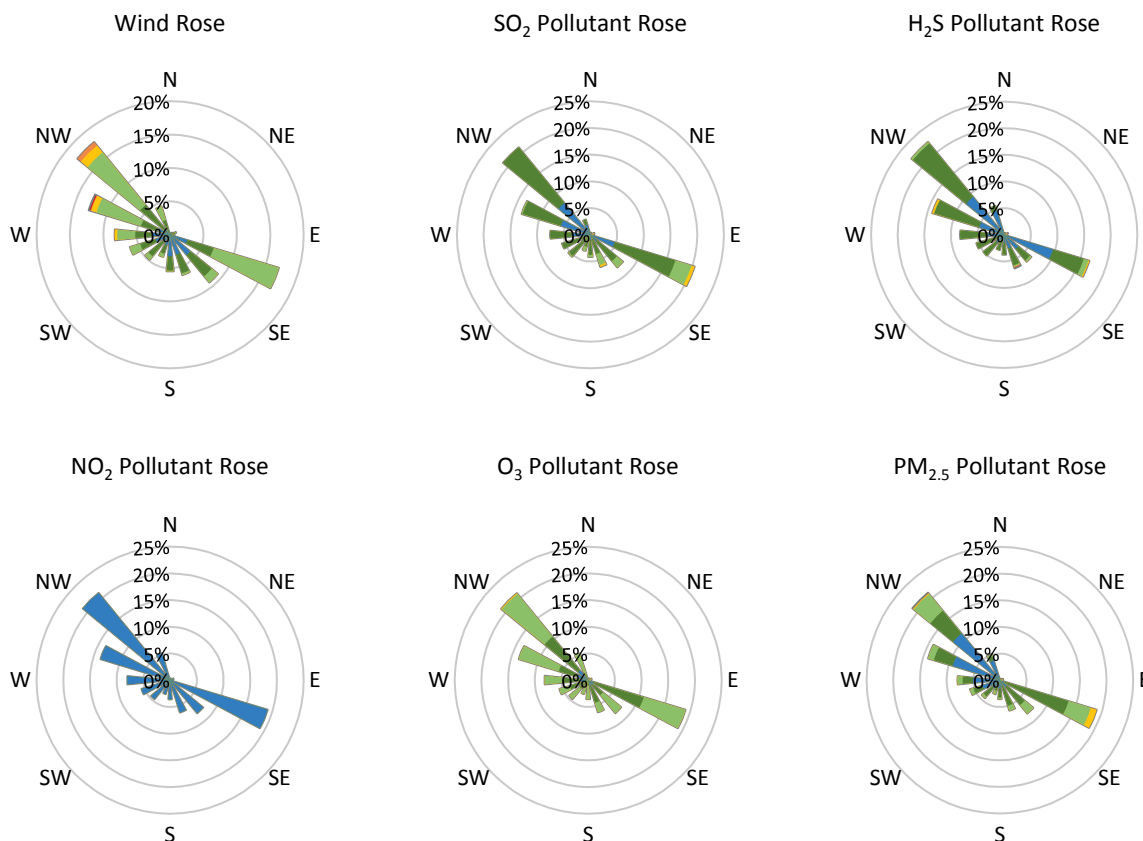
- Achieved 100% of scheduled uptime
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity; no operational issues

SESAA Weyburn Station - October 2015 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	94.4%	0.7	Oct-08	-	-	4.3	Oct-08 08:00	-	-
NO ₂	ppb	1.7	94.5%	2.9	Oct-08	106	0	7.6	Oct-25 19:00	159	0
NO _x	ppb	2.0	94.4%	3.6	Oct-08	-	-	9.2	Oct-08 08:00	-	-
SO ₂	ppb	1.9	94.2%	6.0	Oct-20	48	0	21.8	Oct-25 11:00	172	0
H ₂ S	ppb	1.2	94.1%	4.2	Oct-20	3.6	1	32.5	Oct-30 02:00	11	1
O ₃	ppb	19.5	94.5%	26.7	Oct-14	-	-	40.8	Oct-14 16:00	82	0
PM _{2.5}	µg/m ³	2.9	98.8%	6.5	Oct-08	28	0	72.8	Oct-08 13:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards





Parameters	Unit	Color Code for Wind Speed and Pollution Concentration 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	$0 \leq C < 1$	$1 \leq C < 3.6$	$3.6 \leq C < 5$	$5 \leq C < 8$	$8 \leq C < 10.8$	$C \geq 10.8$	
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}	$\mu\text{g}/\text{m}^3$	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

Monthly Update

- Achieved 98.5 to 98.8% of scheduled uptime
- Downtime due to operational issues, routine maintenance, and routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity
- Calibration performed October 5

Exceedance Summary (1- Hour Average - Exceedances Highlighted)

Exceedance Time	AQHI	NO ₂	NO	SO ₂	O ₃	NO _x	H ₂ S	PM _{2.5}	Temp	WD	WS
	-	ppb	ppb	ppb	ppb	ppb	ppb	$\mu\text{g}/\text{m}^3$	°C	deg	m/s
Oct-30 02:00	0.6	1.6	0.3	8.4	7.8	1.9	32.5	1.9	-0.5	161.4	1.1

Exceedance Summary (24- Hour Average - Exceedances Highlighted)

Exceedance Time	AQHI	NO ₂	NO	SO ₂	O ₃	NO _x	H ₂ S	PM _{2.5}	Temp	WD	WS
	-	ppb	ppb	ppb	ppb	ppb	ppb	$\mu\text{g}/\text{m}^3$	°C	deg	m/s
Oct-20	1.4	1.6	0.1	6.0	19.5	1.8	4.2	4.3	8.1	162.2	3.4