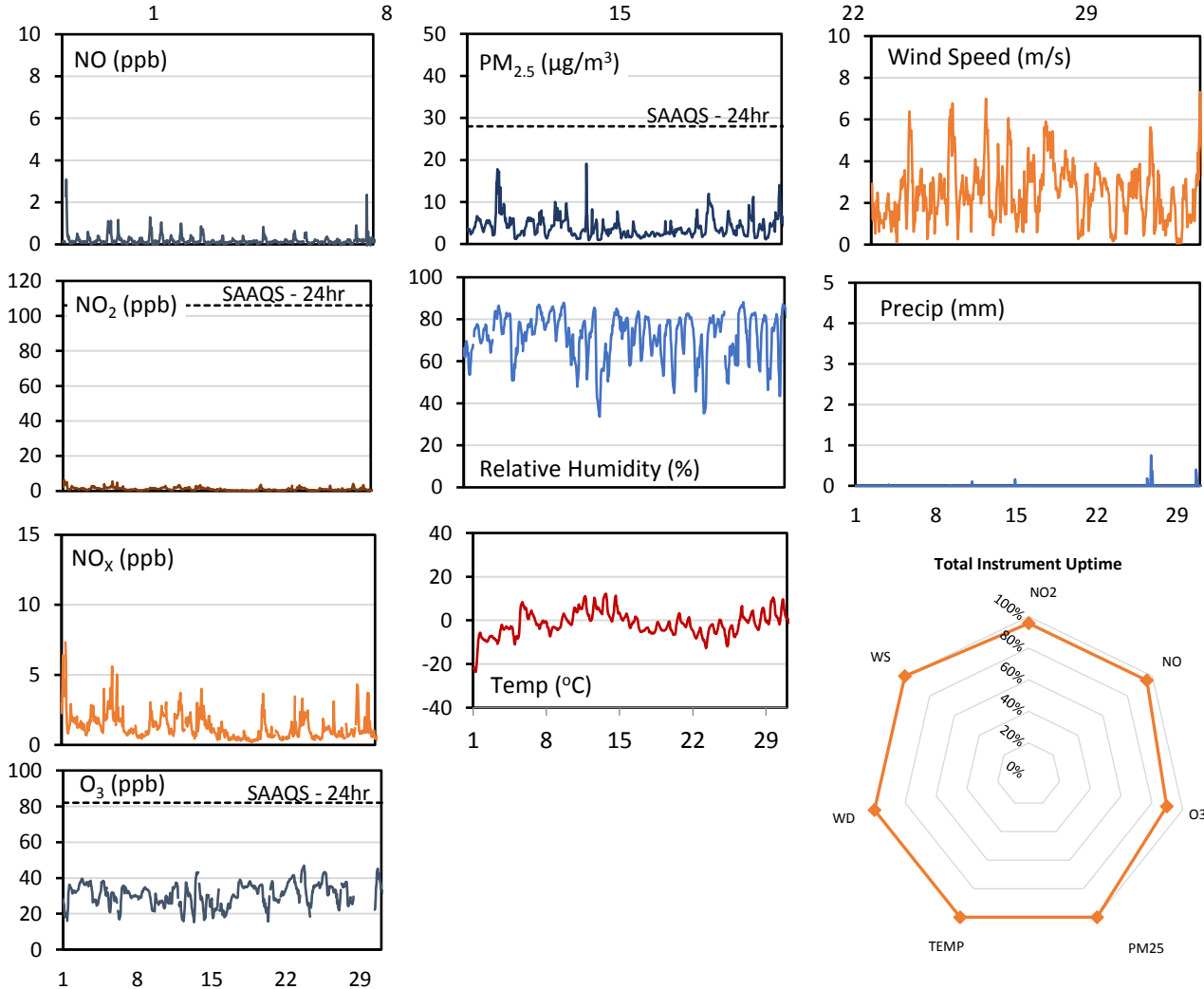
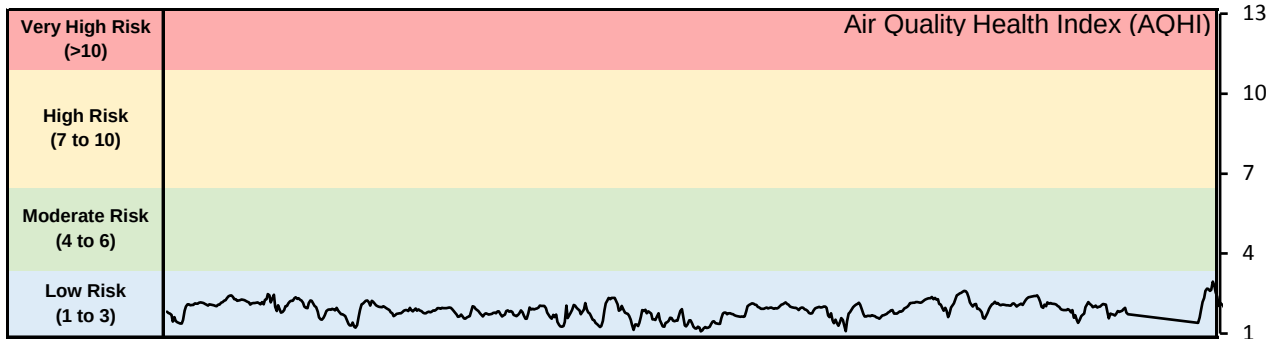


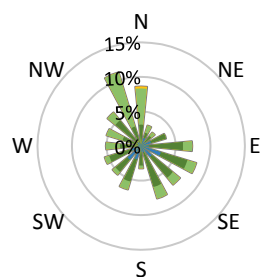
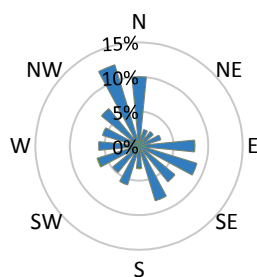
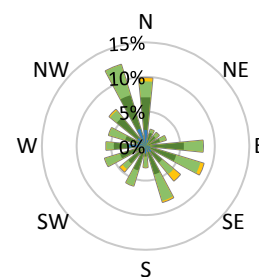
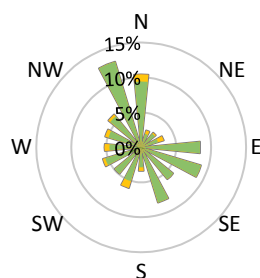
SESAA Esterhazy Station - March 2016 Summary Report

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%	0.5	Mar-01	-	-	3.1	Mar-01 10:00	-	-
NO ₂	ppb	1.1	96%	2.5	Mar-01	106	0	6.3	Mar-01 03:00	159	0
NO _x	ppb	1.3	96%	2.9	Mar-01	-	-	7.3	Mar-01 09:00	-	-
O ₃	ppb	30.9	90%	38.3	Mar-25	-	-	46.9	Mar-23 17:00	82	0
PM _{2.5}	µg/m ³	4.0	100%	7.7	Mar-04	28	0	19.1	Mar-12 09:00	-	-

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	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$

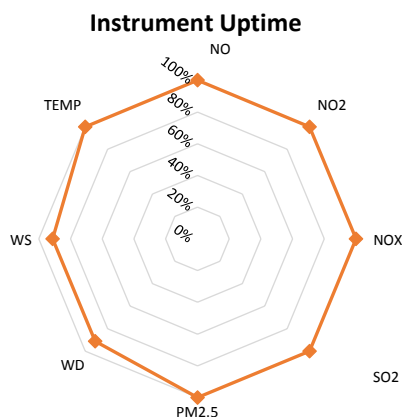
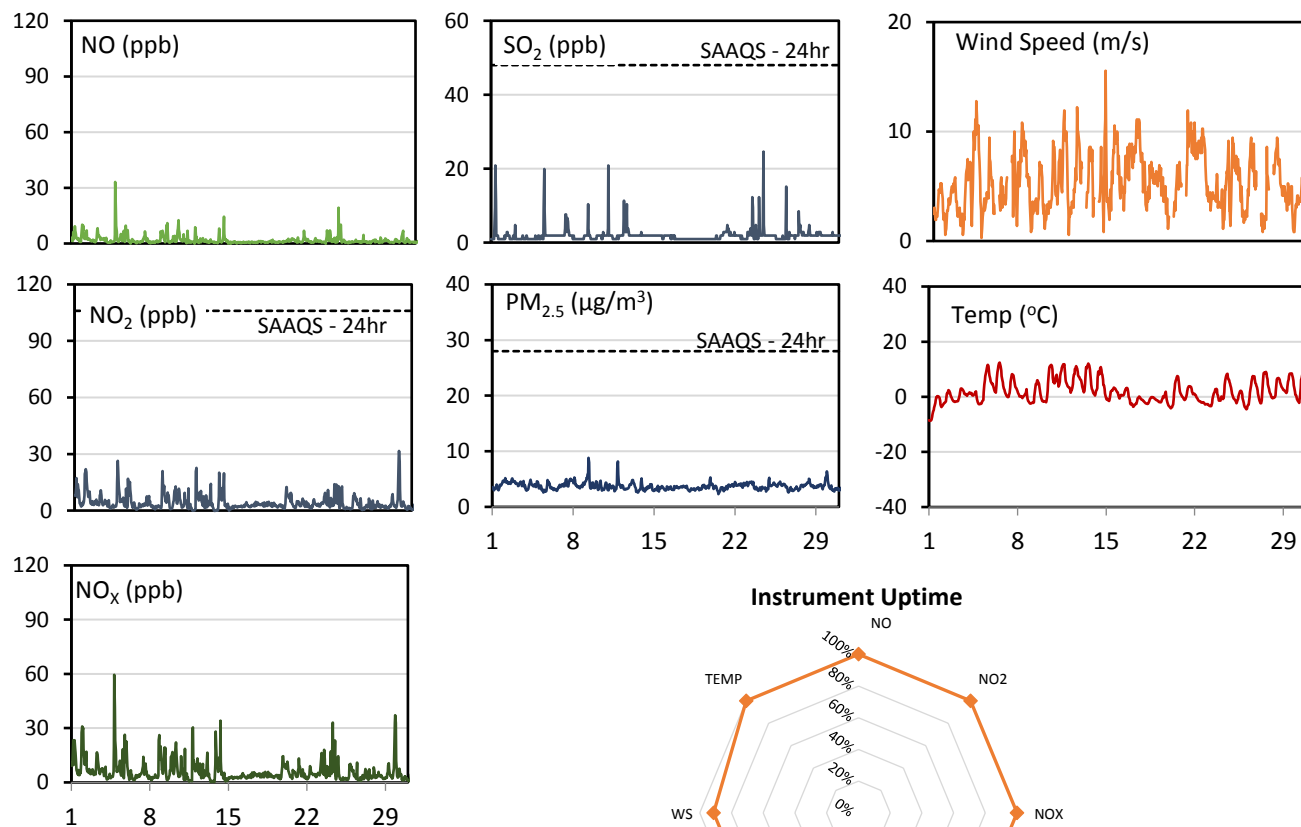
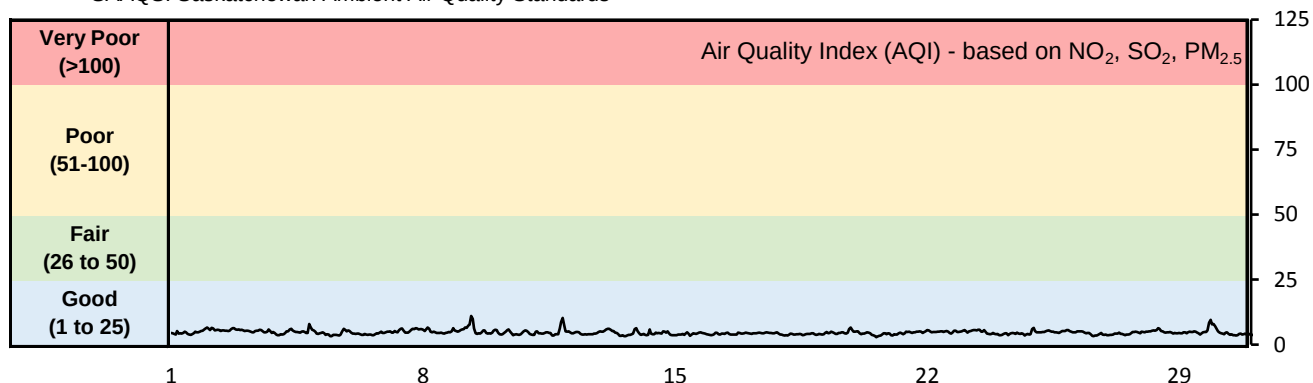
Monthly Update

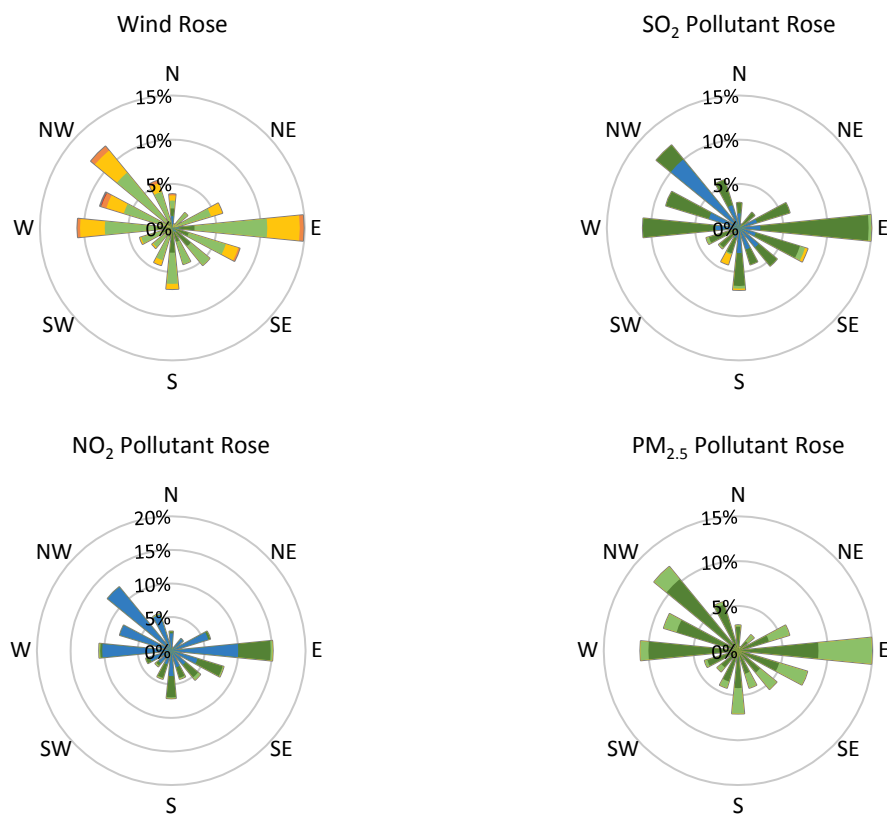
- Achieved >99% of scheduled uptime for all parameters except O₃ (94%)
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity

SESAA Estevan Station - March 2016 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	1.8	100%	3.8	Mar-04	-	-	33.2	Mar-04 20:00	-	-
NO ₂	ppb	4.2	100%	8.1	Mar-01	106	0	31.6	Mar-29 21:00	159	0
NO _x	ppb	6.0	100%	11.8	Mar-01	-	-	59.5	Mar-04 20:00	-	-
SO ₂	ppb	2.0	100%	3.6	Mar-24	48	0	24.6	Mar-24 12:00	172	0
PM _{2.5}	µg/m ³	3.7	100%	4.6	Mar-09	28	0	8.8	Mar-09 08:00	-	-

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}	µg/m ³	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

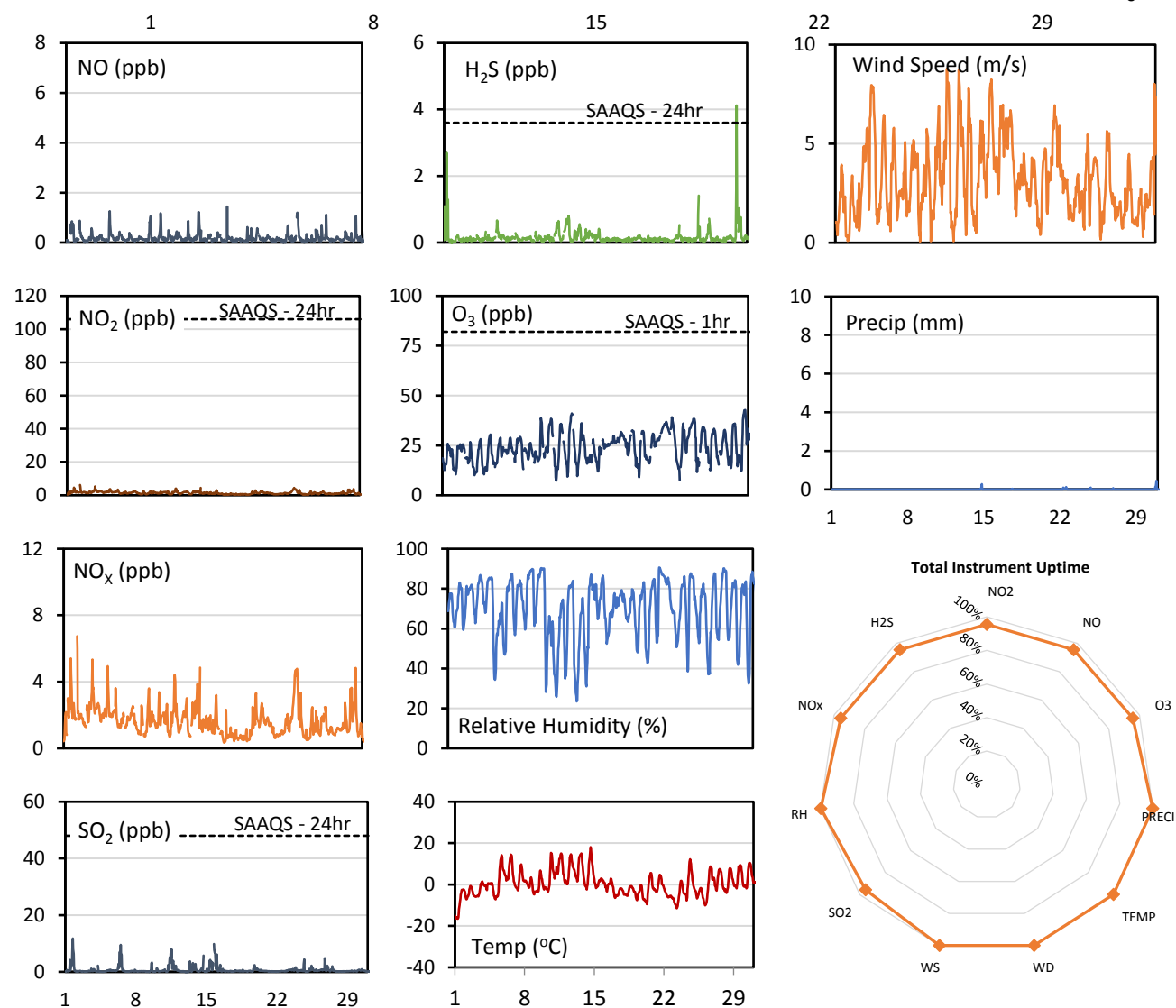
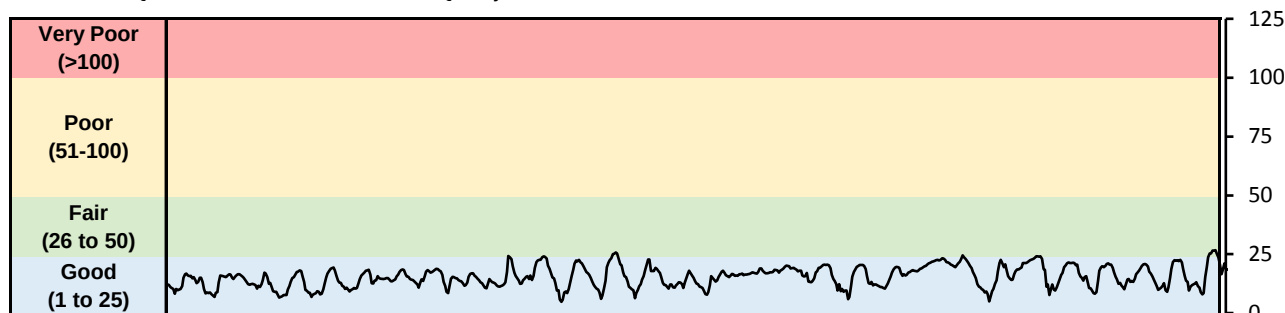
Monthly Update

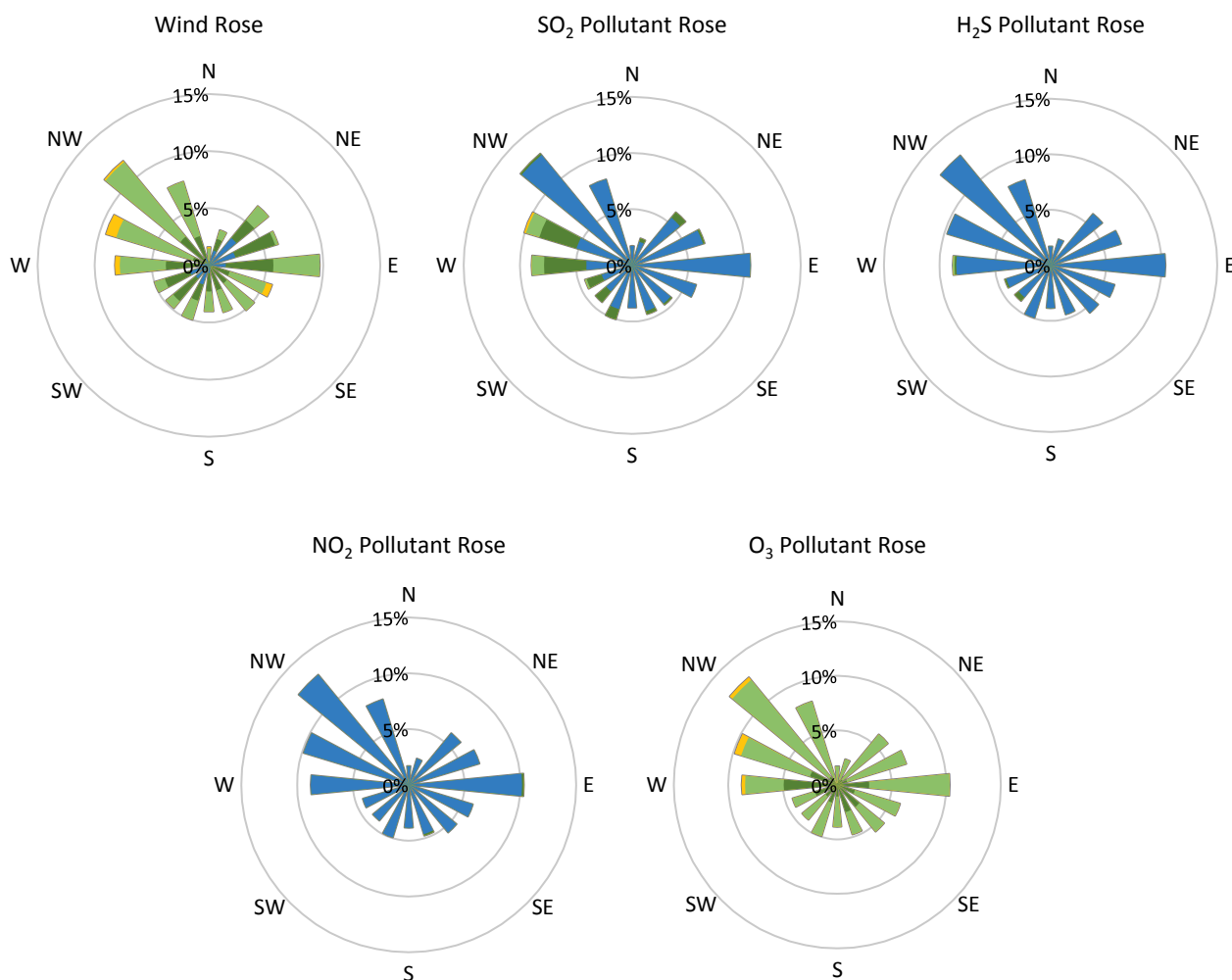
- Achieved 100% of scheduled uptime for all parameters except wind speed and direction
- All compliance parameters are above 90% data validity; no operational issues
- Wind speed and direction data was taken from Estevan Airport

SESAA Glen Ewen Station - March 2016 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%	0.3	Mar-24	-	-	1.4	Mar-17 08:00	-	-
NO ₂	ppb	1.4	96%	2.6	Mar-24	106	0	6.2	Mar-02 08:00	159	0
NO _x	ppb	1.6	96%	3.0	Mar-24	-	-	6.7	Mar-02 08:00	-	-
SO ₂	ppb	0.7	96%	2.8	Mar-15	48	0	11.8	Mar-01 18:00	172	0
H ₂ S	ppb	0.2	96%	0.4	Mar-29	3.6	0	4.1	Mar-29 23:00	11	0
O ₃	ppb	24.2	96%	32.2	Mar-23	-	-	42.8	Mar-30 17:00	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 ≤ 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
O ₃	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82

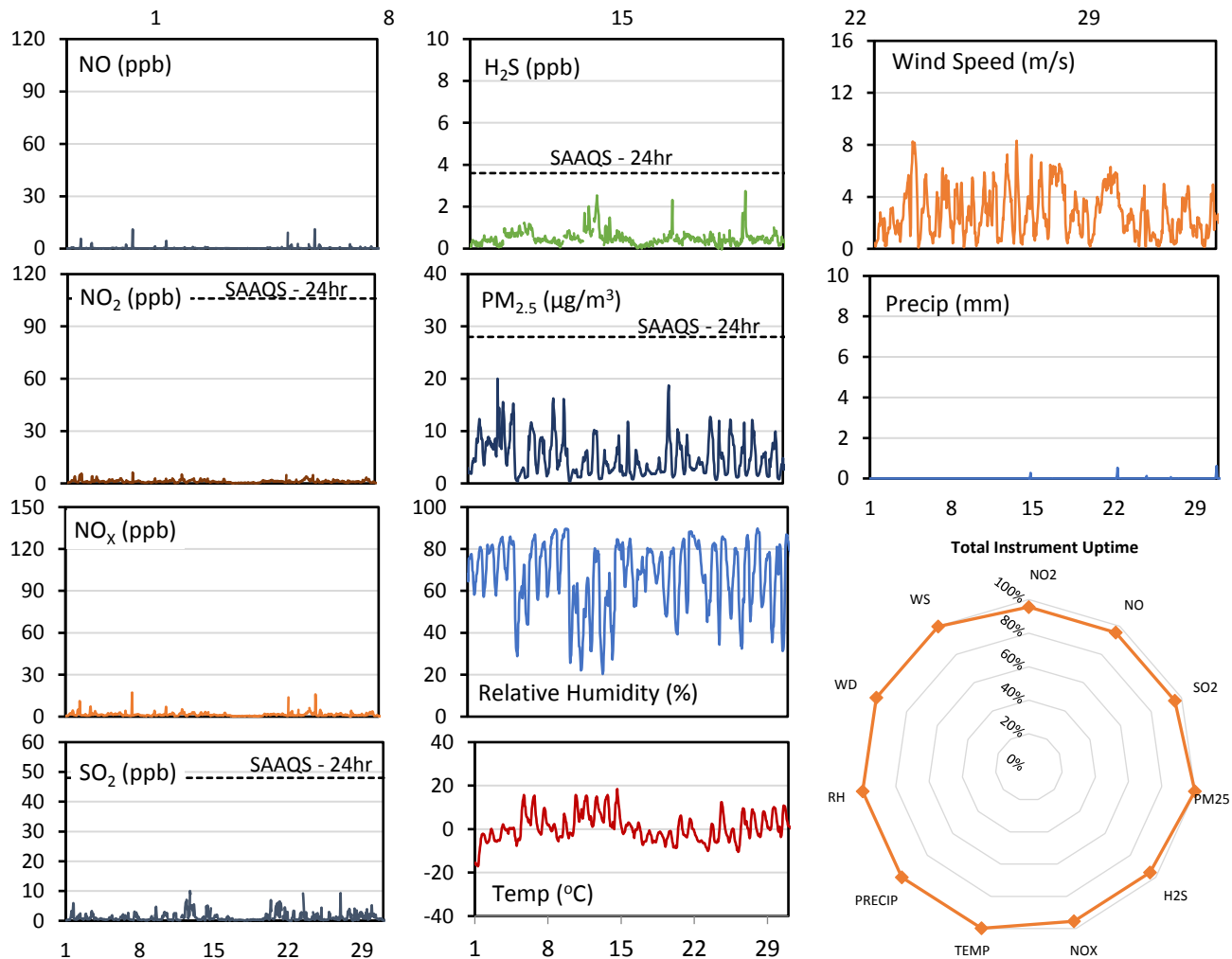
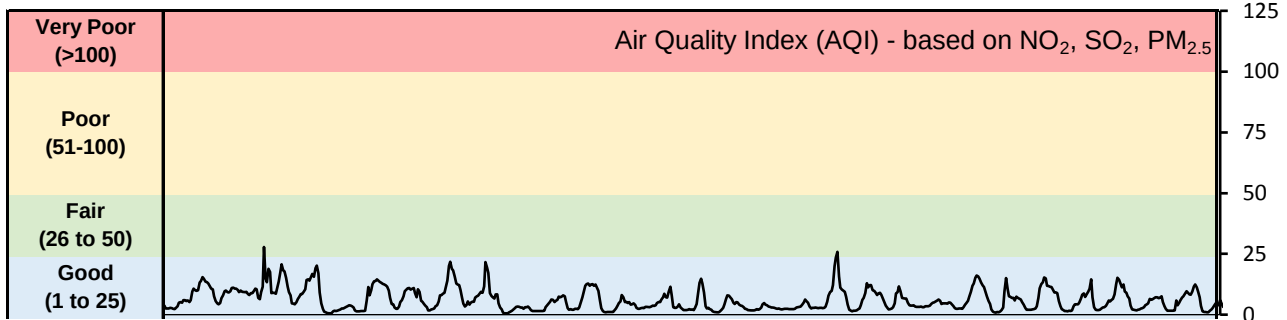
Monthly Update

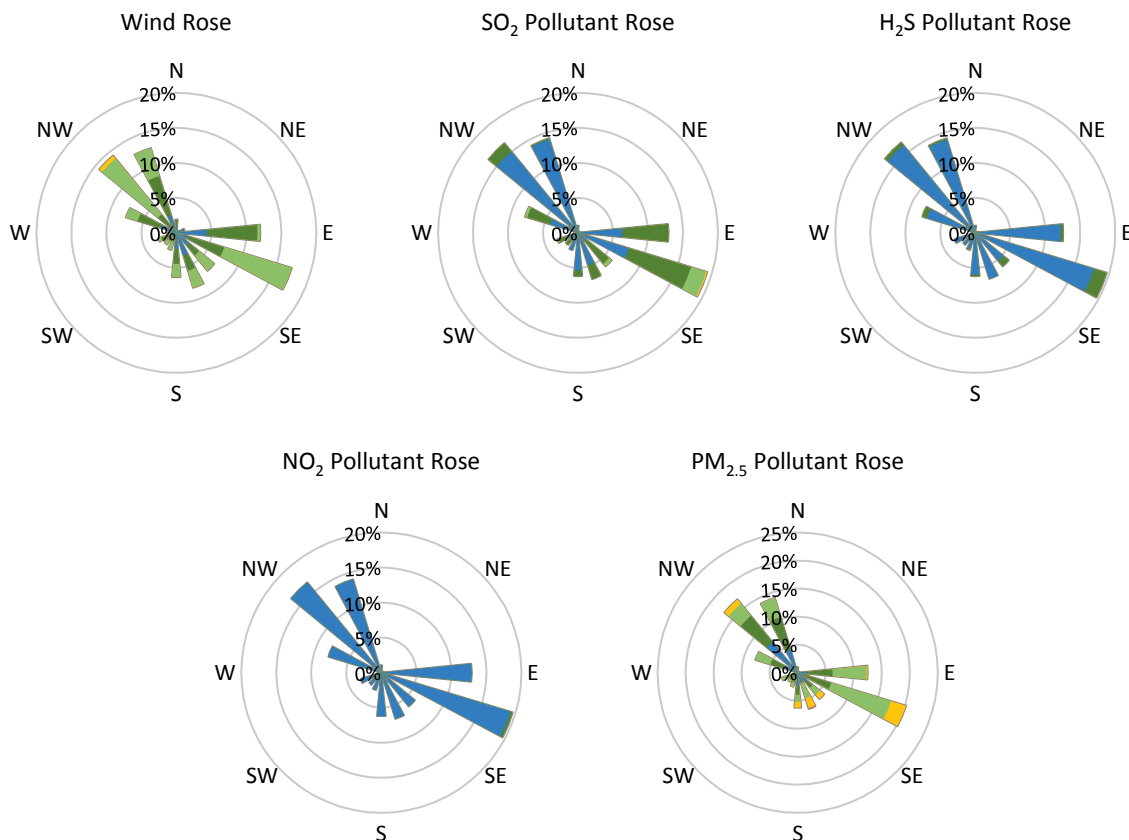
- Achieved >99% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity; no operational issues

SESAA Oxbow Station - March 2016 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%	0.8	Mar-24	-	-	11.1	Mar-24 23:00	-	-
NO ₂	ppb	1.1	96%	2.5	Mar-24	106	0	6.3	Mar-07 09:00	159	0
NO _x	ppb	1.4	96%	3.4	Mar-24	-	-	17.2	Mar-07 09:00	-	-
SO ₂	ppb	1.1	96%	3.7	Mar-12	48	0	10.0	Mar-12 18:00	172	0
H ₂ S	ppb	0.5	96%	1.1	Mar-13	3.6	0	2.7	Mar-27 09:00	11	0
PM _{2.5}	µg/m ³	4.9	100%	8.6	Mar-03	28	0	20.0	Mar-03 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	
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	

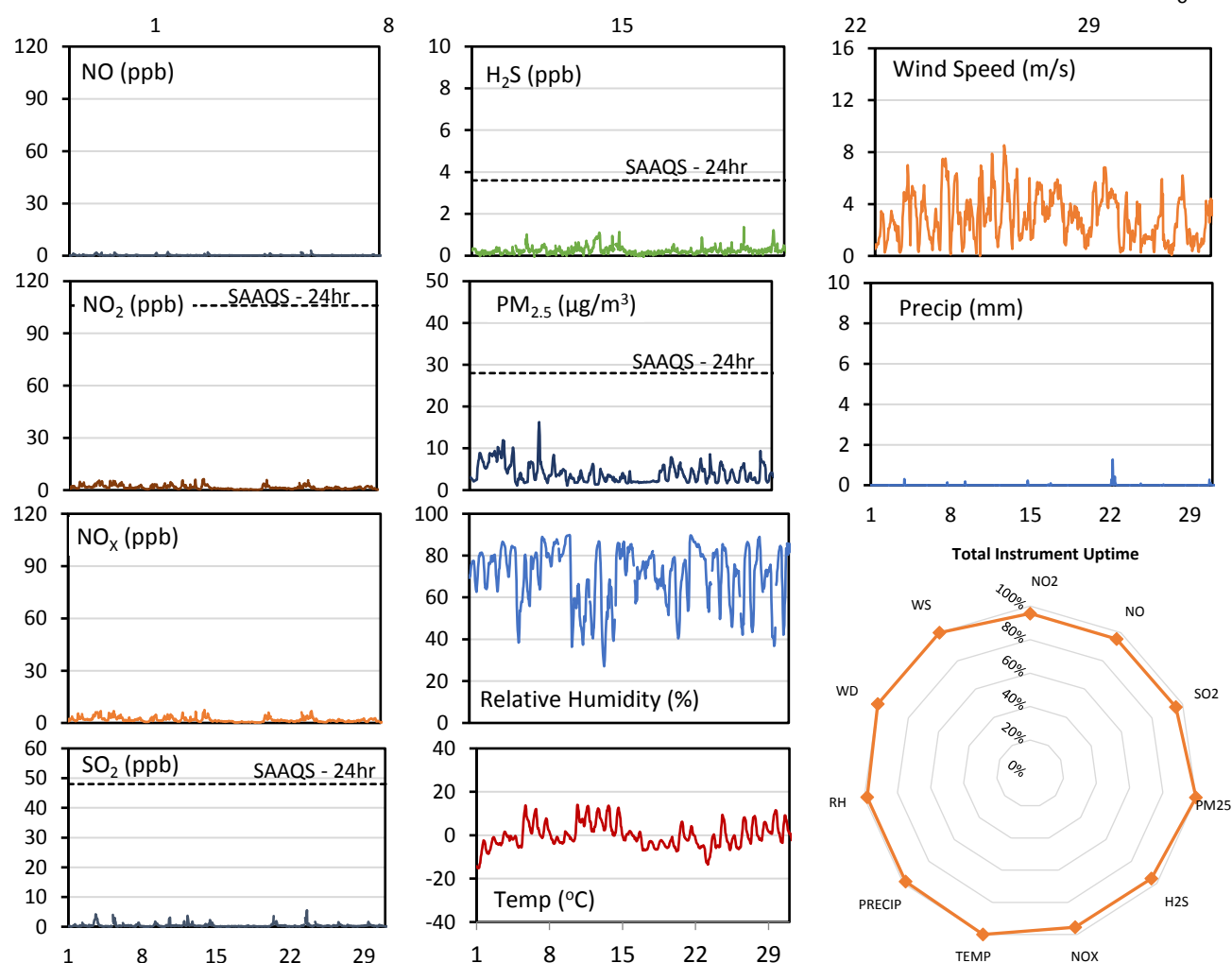
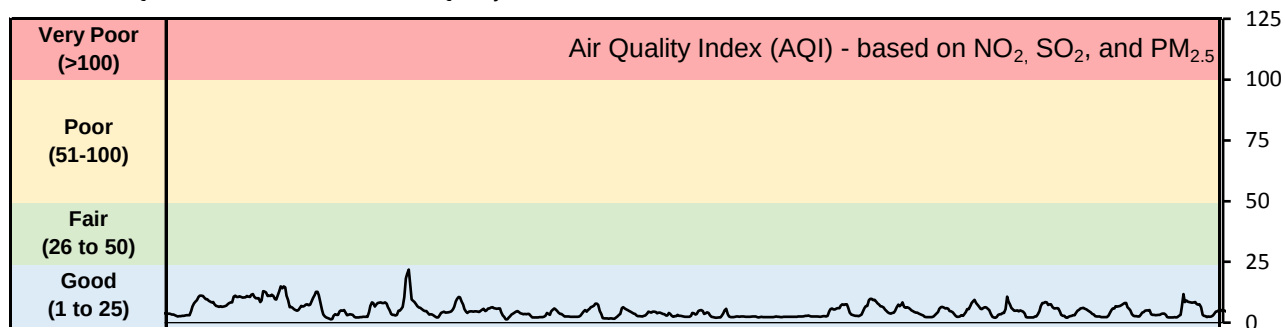
Monthly Update

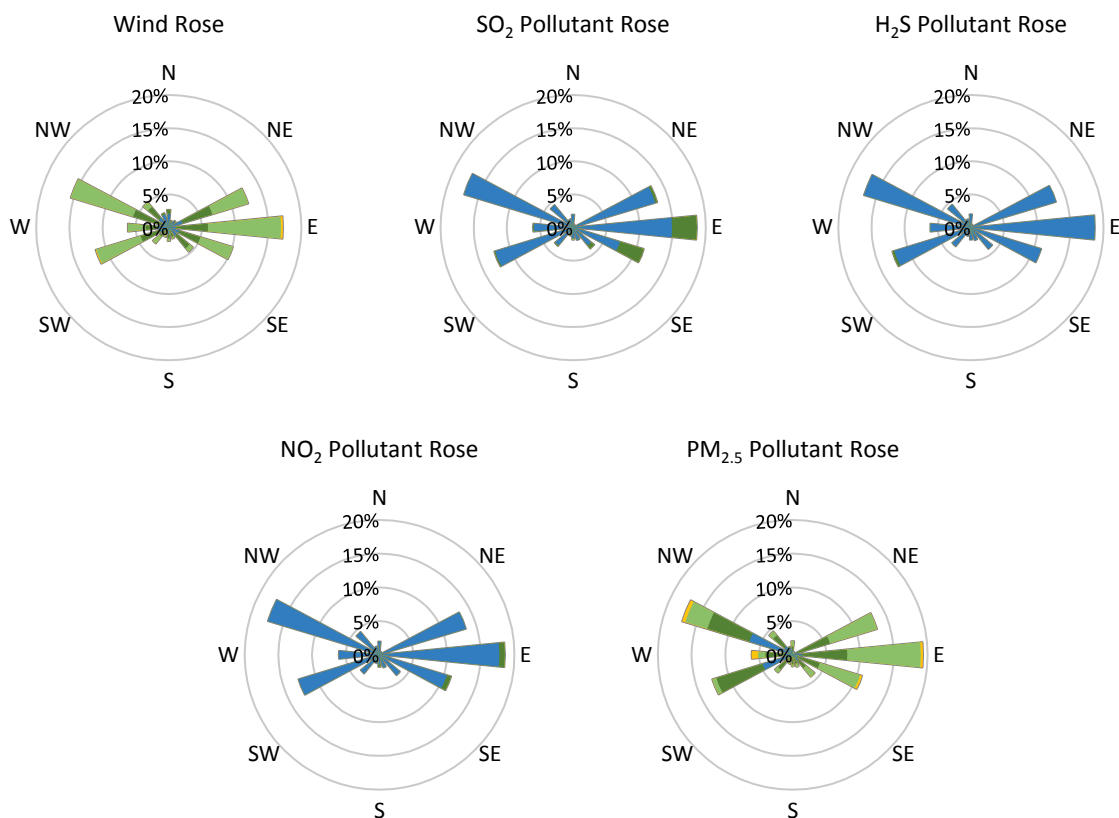
- Achieved >99% of scheduled uptime for all parameters
- All compliance parameters are above 90% data validity; no operational issues
- Downtime of 4% results from routine daily internal zeroes and spans

SESAA Stoughton Station - March 2016 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%	0.6	Mar-03	-	-	2.9	Mar-24 09:00	-	-
NO ₂	ppb	1.5	96%	3.1	Mar-03	106	0	6.4	Mar-14 02:00	159	0
NO _x	ppb	1.8	96%	3.7	Mar-03	-	-	7.5	Mar-14 02:00	-	-
SO ₂	ppb	0.4	96%	1.4	Mar-03	48	0	5.6	Mar-23 14:00	172	0
H ₂ S	ppb	0.2	96%	0.5	Mar-13	3.6	0	1.4	Mar-27 03:00	11	0
PM _{2.5}	µg/m ³	3.9	100%	8.6	Mar-03	28	0	16.3	Mar-07 22:00	-	-

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}	µg/m ³	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

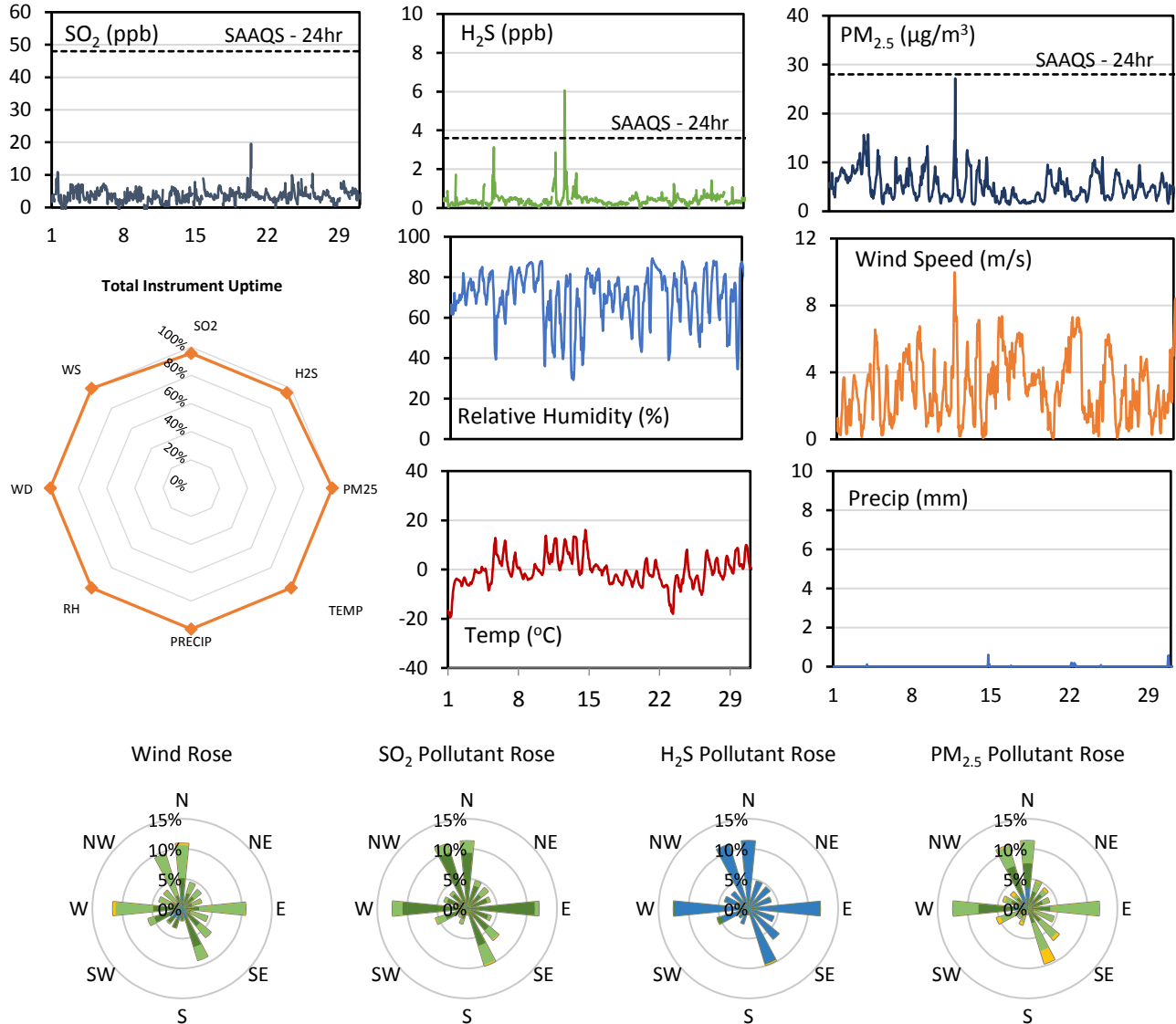
Monthly Update

- Achieved >99% of scheduled uptime for all parameters except precipitation and relative humidity (98%)
- Downtime of 4% due to routine daily internal zeroes and spans
- All compliance parameters are above 90% validity

SESAA Wauchope Station - March 2016 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	3.6	96%	5.4	Mar-20	48	0	19.6	Mar-20 10:00	172	0
H ₂ S	ppb	0.4	96%	1.0	Mar-13	3.6	0	6.1	Mar-13 03:00	11	0
PM _{2.5}	µg/m ³	5.0	100%	9.0	Mar-03	28	0	27.2	Mar-12 00:00	-	-

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

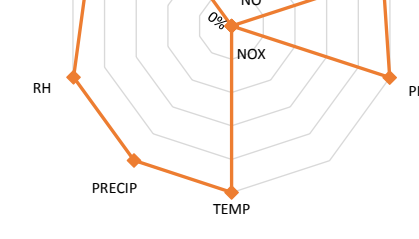
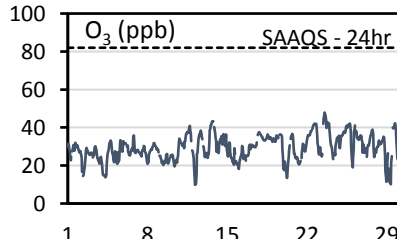
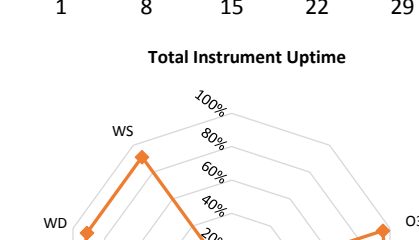
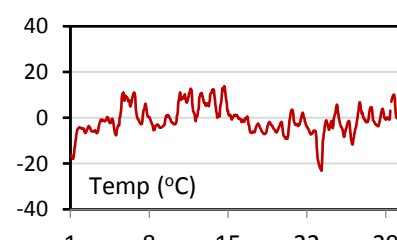
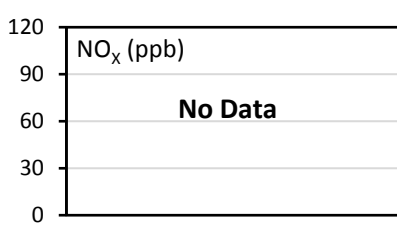
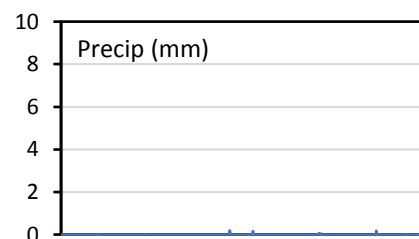
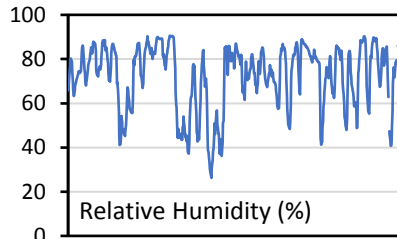
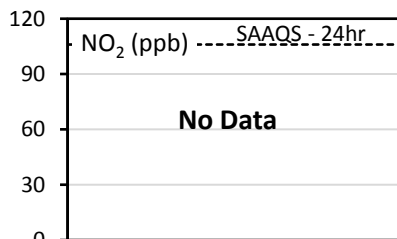
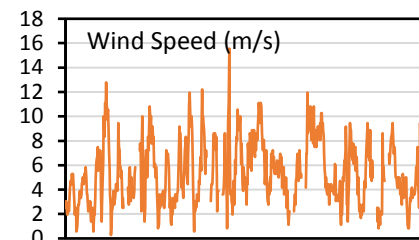
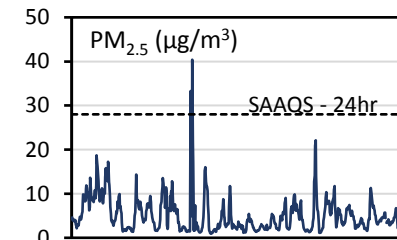
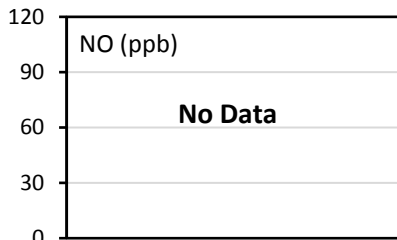
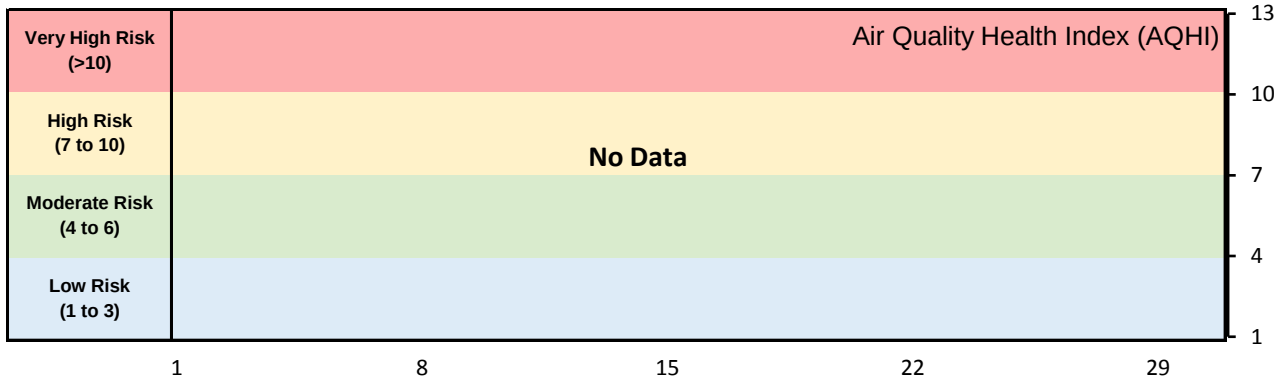
Monthly Update

- Achieved >99% of scheduled uptime for all parameters
- 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 - March 2016 Summary Report

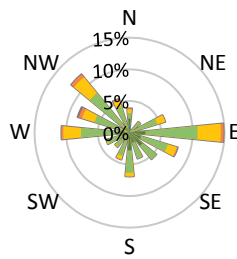
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	NoData	0%	NoData	NoData	-	-	NoData	NoData	-	-
NO ₂	ppb	NoData	0%	NoData	NoData	106	0	NoData	NoData	159	0
NO _x	ppb	NoData	0%	NoData	NoData	-	-	NoData	NoData	-	-
O ₃	ppb	29.8	96%	37.9	Mar-22	-	-	47.9	Mar-23 13:00	82	0
PM _{2.5}	µg/m ³	5.0	100%	11.0	Mar-03	28	0	40.4	Mar-11 22:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

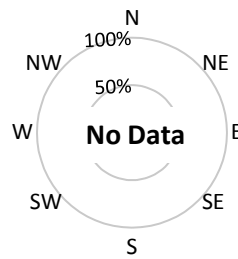


SESAA Wawota Station - March 2016 Summary Report

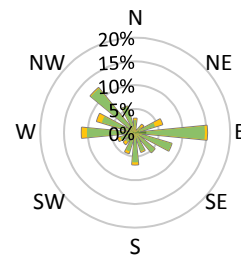
Wind Rose



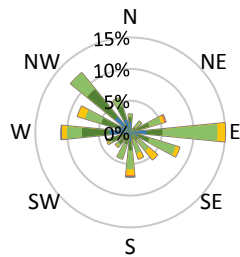
NO₂ Pollutant Rose



O₃ Pollutant Rose



PM_{2.5} 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}	µg/m ³	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

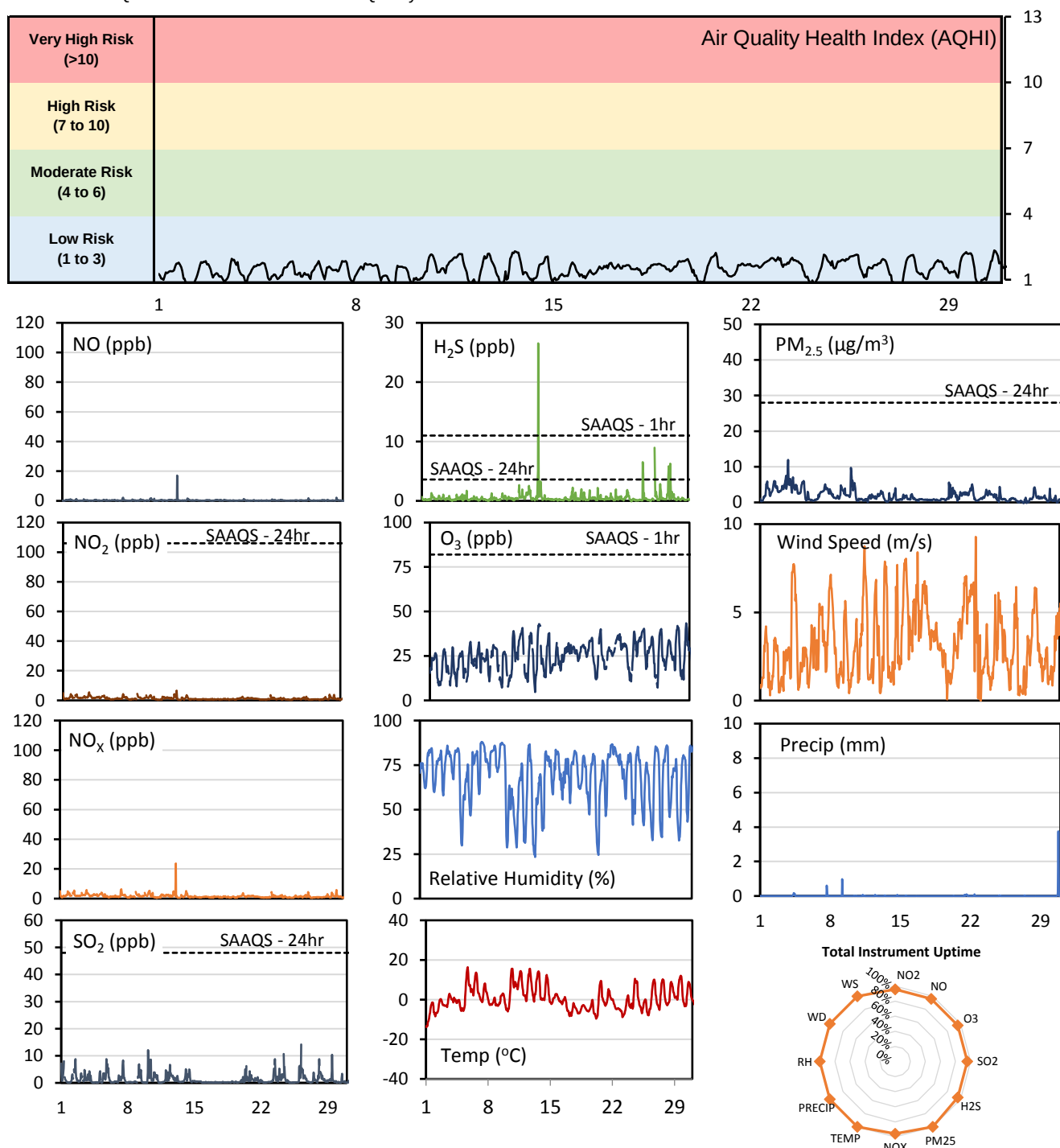
Monthly Update

- Achieved >99% of scheduled uptime for PM_{2.5}, temperature, precipitation, and relative humidity
- Achieved 91% for wind speed and direction
- NO, NO₂, and NO_x data invalid due to failed calibration
- Downtime of 4% due to routine daily internal zeroes and spans

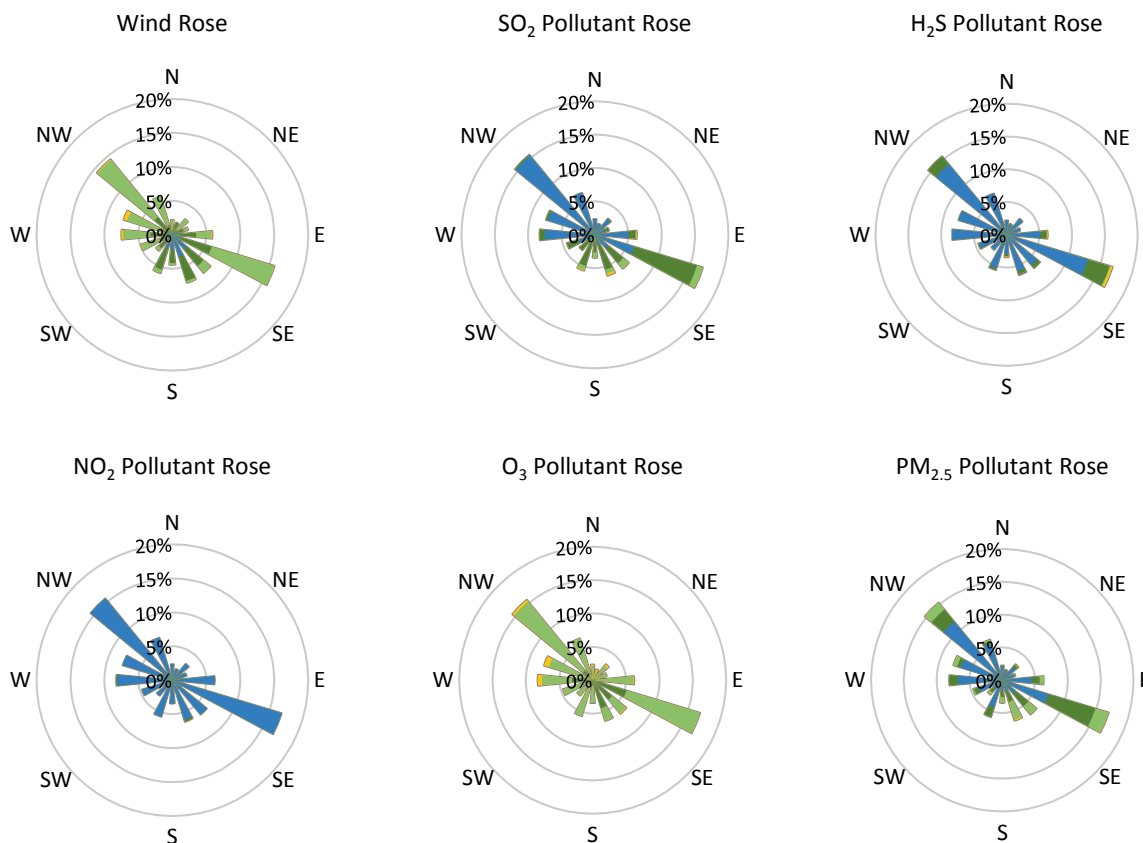
SESAA Weyburn Station - March 2016 Summary Report

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	96%	1.1	Mar-13	-	-	17.1	Mar-13 07:00	-	-
NO ₂	ppb	1.3	96%	2.5	Mar-03	106	0	6.6	Mar-13 07:00	159	0
NO _x	ppb	1.6	96%	2.8	Mar-03	-	-	23.7	Mar-13 07:00	-	-
SO ₂	ppb	1.3	96%	3.2	Mar-10	48	0	14.2	Mar-26 05:00	172	0
H ₂ S	ppb	0.5	96%	2.3	Mar-14	3.6	0	26.5	Mar-14 03:00	11	1
O ₃	ppb	24.9	96%	34.3	Mar-25	-	-	43.4	Mar-30 15:00	82	0
PM _{2.5}	µg/m ³	1.8	100%	5.2	Mar-03	28	0	11.9	Mar-03 19:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Weyburn Station - March 2016 Summary Report



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 100% of scheduled uptime for all parameters
- Downtime of 4% due to routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity

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
Mar-14 03:00	1.1	0.7	0.3	3.4	19.4	1.0	26.5	0.6	-0.2	157.2	1.1