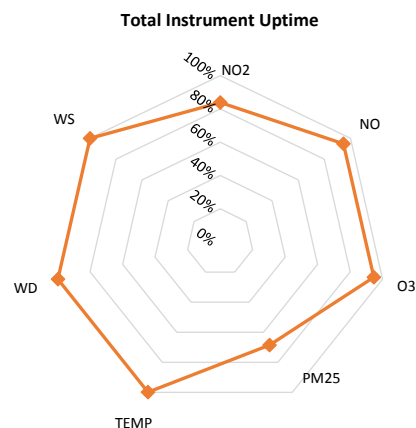
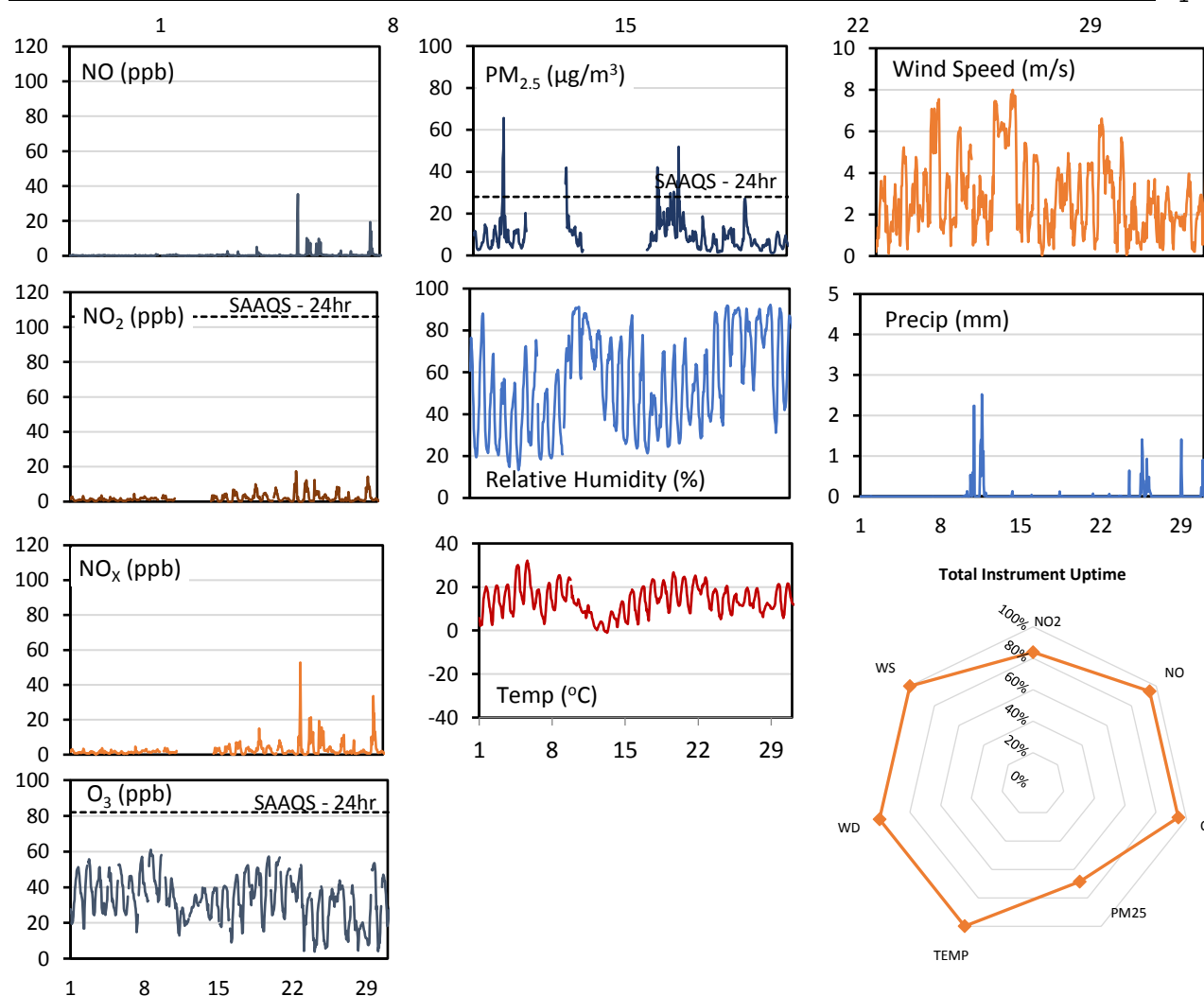
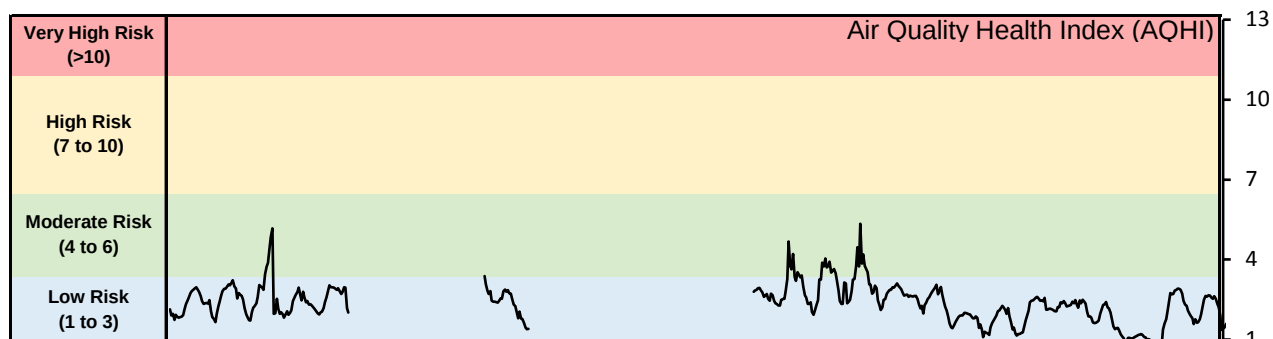


SESAA Esterhazy Station - May 2016 Summary Report

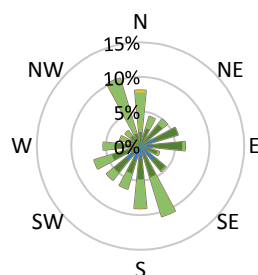
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Total Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.5	95%	3.1	May-23	-	-	35.4	May-23 02:00	-	-
NO ₂	ppb	1.9	84%	4.1	May-24	106	0	17.4	May-23 02:00	159	0
NO _x	ppb	2.5	84%	6.7	May-30	-	-	52.8	May-23 02:00	-	-
O ₃	ppb	33.4	95%	47.3	May-08	-	-	61.0	May-08 14:00	82	0
PM _{2.5}	µg/m ³	9.1	68%	34.0	May-09	28	1	65.6	May-03 22:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

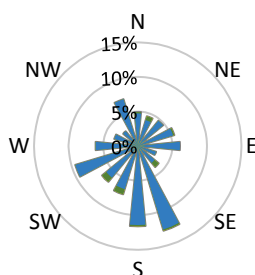


SESAA Esterhazy Station - May 2016 Summary Report

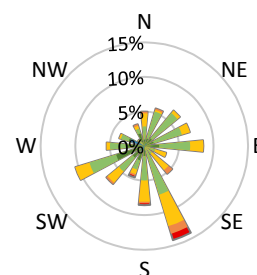
Wind Rose



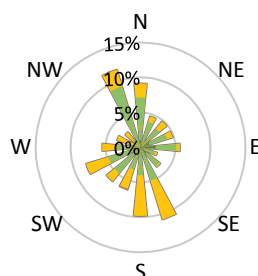
NO₂ Pollutant Rose



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 ≤ 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}	ug/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30

Monthly Update

- Achieved >98% of scheduled uptime for all parameters except NO₂/NO_x (87.7%) and PM_{2.5} (68.4%)
- Downtime of 4% results from routine daily Internal Zeroes and Spans

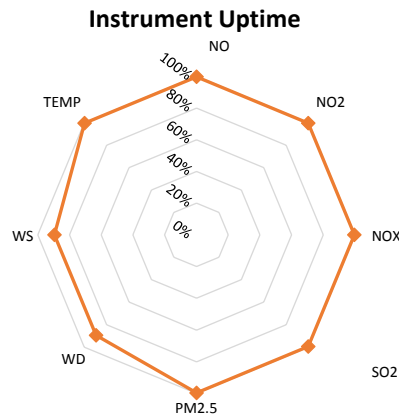
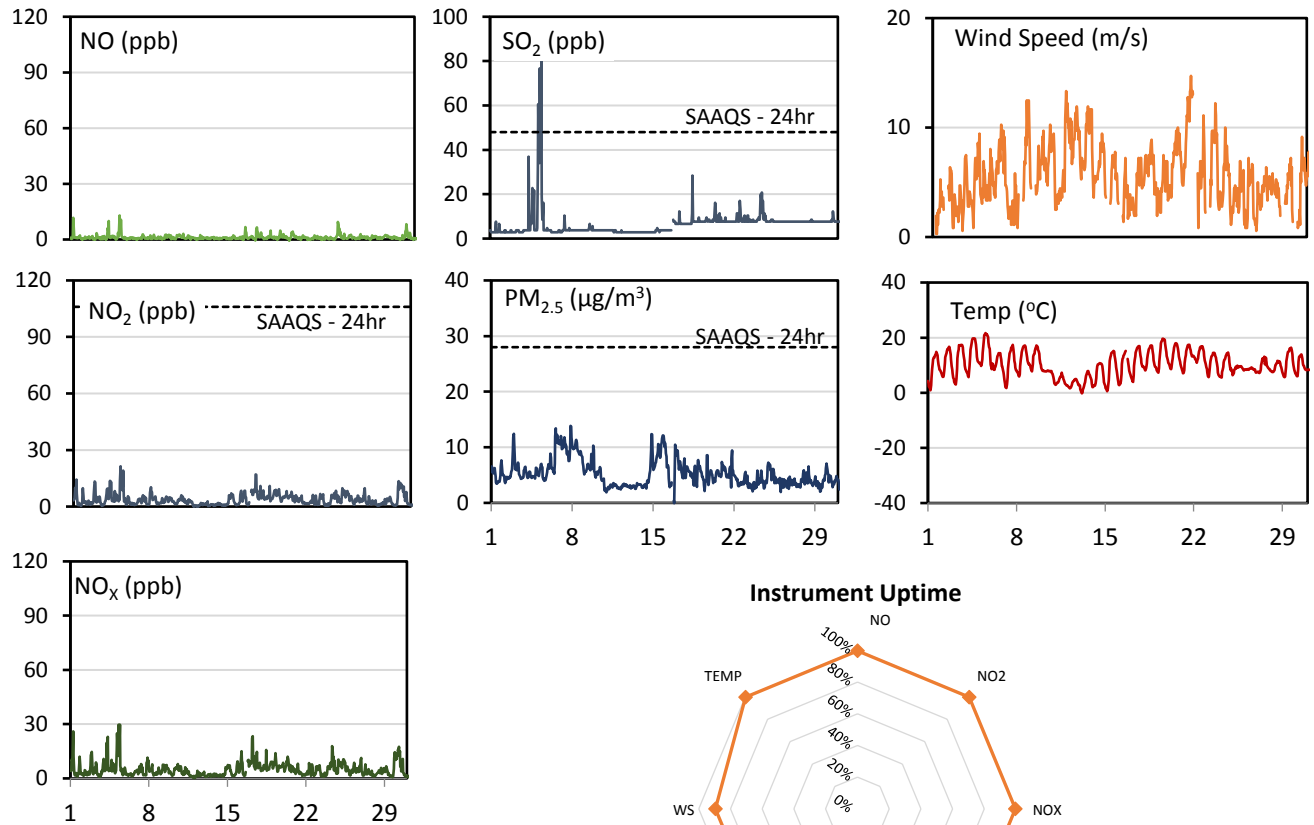
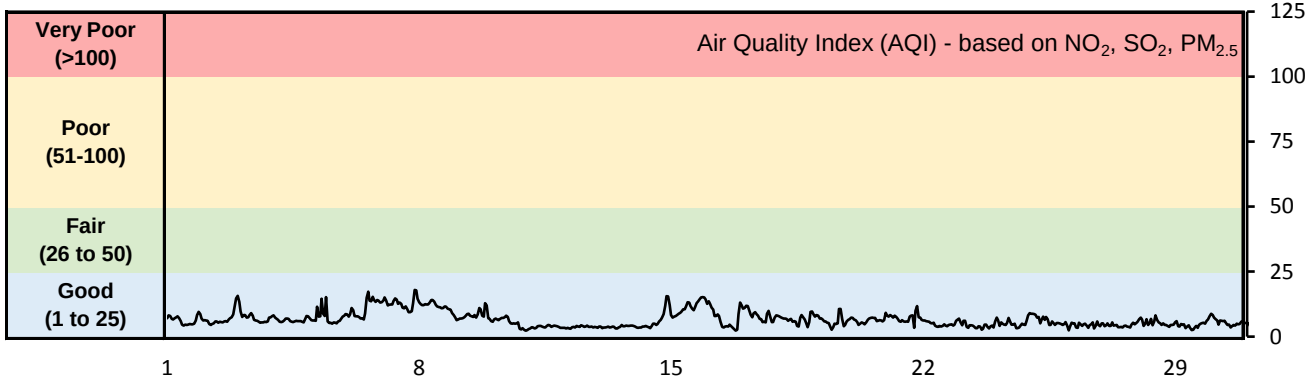
Exceedance Summary (24- Hour Average - Exceedances Highlighted)

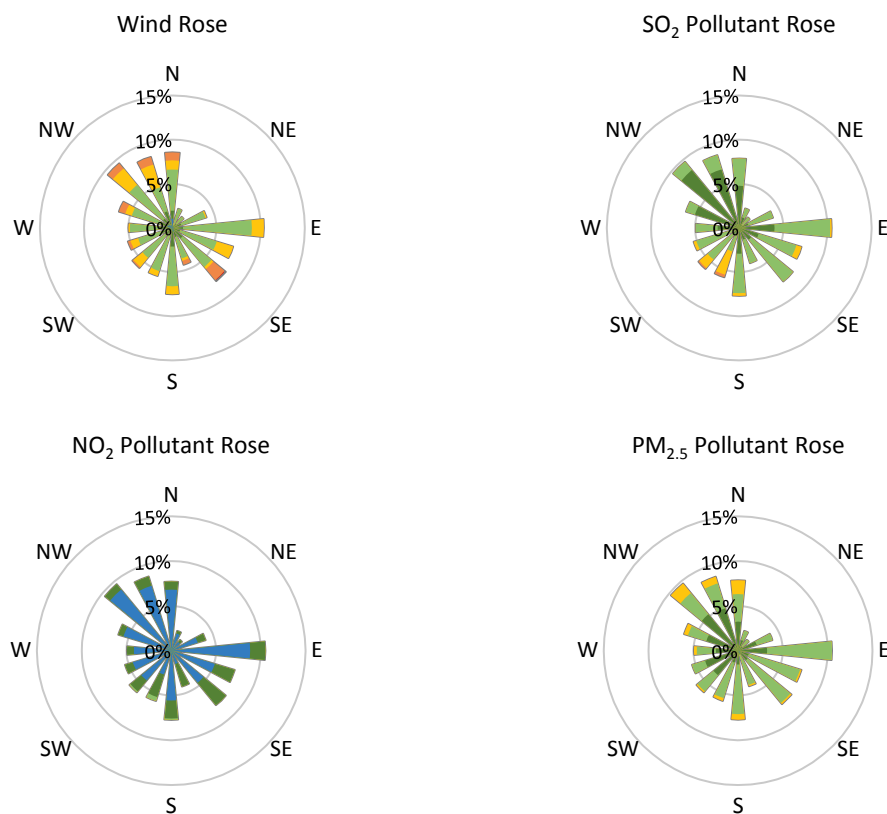
Exceedance Time	AQI	NO ₂ ppb	NO ppb	O ₃ ppb	PM _{2.5} ug/m ³	NO _x ppb	Temp C	WD deg	WS m/s
May-09	4.0	1.7	0.3	42.9	34.0	2.0	18.3	165.0	3.5

SESAA Estevan Station - May 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	1.2	100%	2.4	May-24	-	-	12.9	May-05 07:00	-	-
NO ₂	ppb	3.6	100%	7.6	May-17	106	0	21.4	May-05 04:00	159	0
NO _x	ppb	4.8	100%	9.4	May-05	-	-	29.7	May-05 10:00	-	-
SO ₂	ppb	6.4	100%	20.7	May-05	48	0	80.5	May-05 10:00	172	0
PM _{2.5}	µg/m ³	5.2	100%	10.2	May-07	28	0	13.9	May-07 21:00	-	-

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

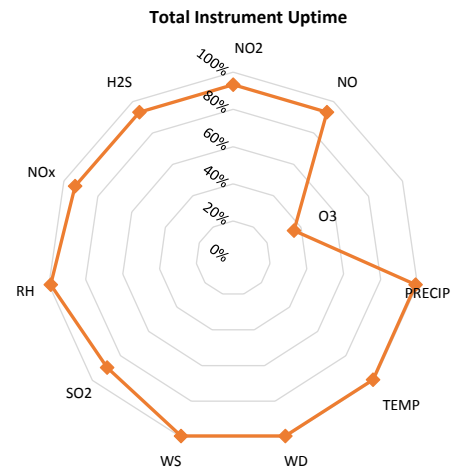
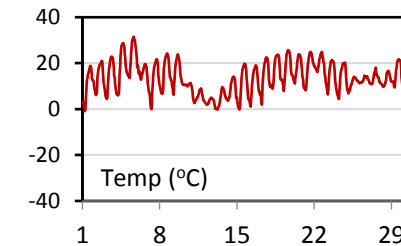
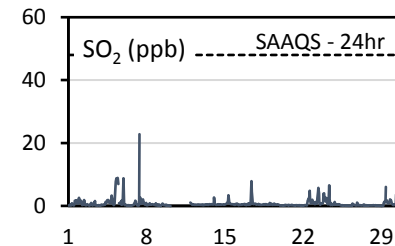
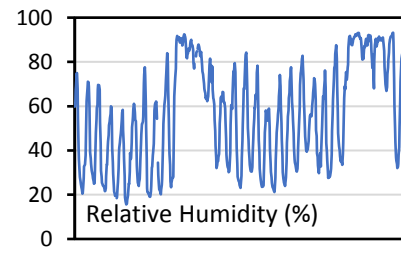
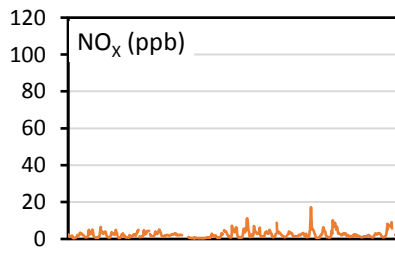
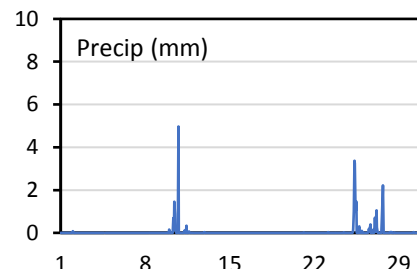
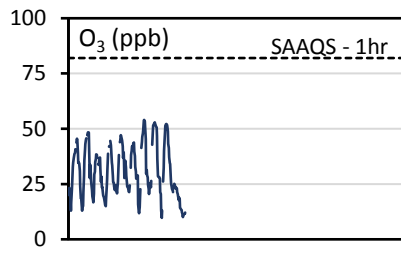
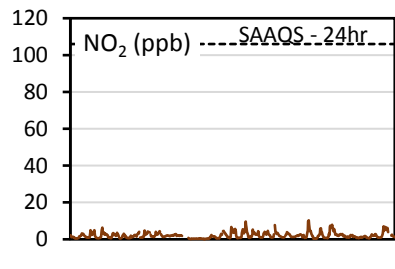
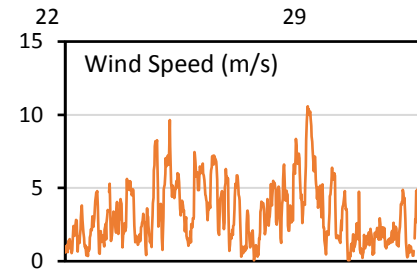
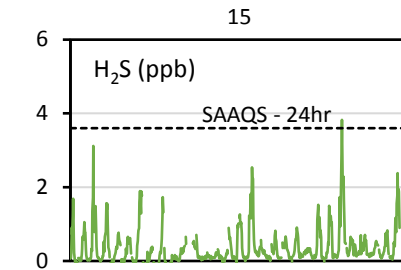
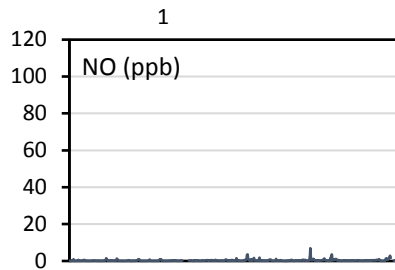
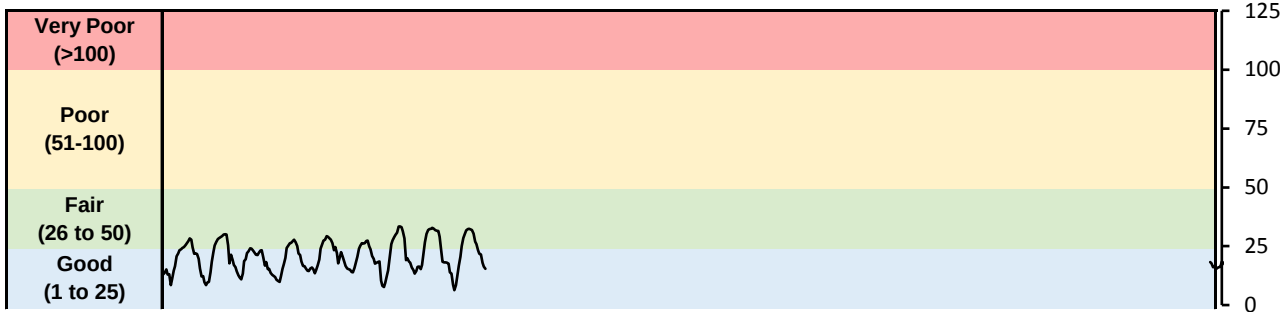
Monthly Update

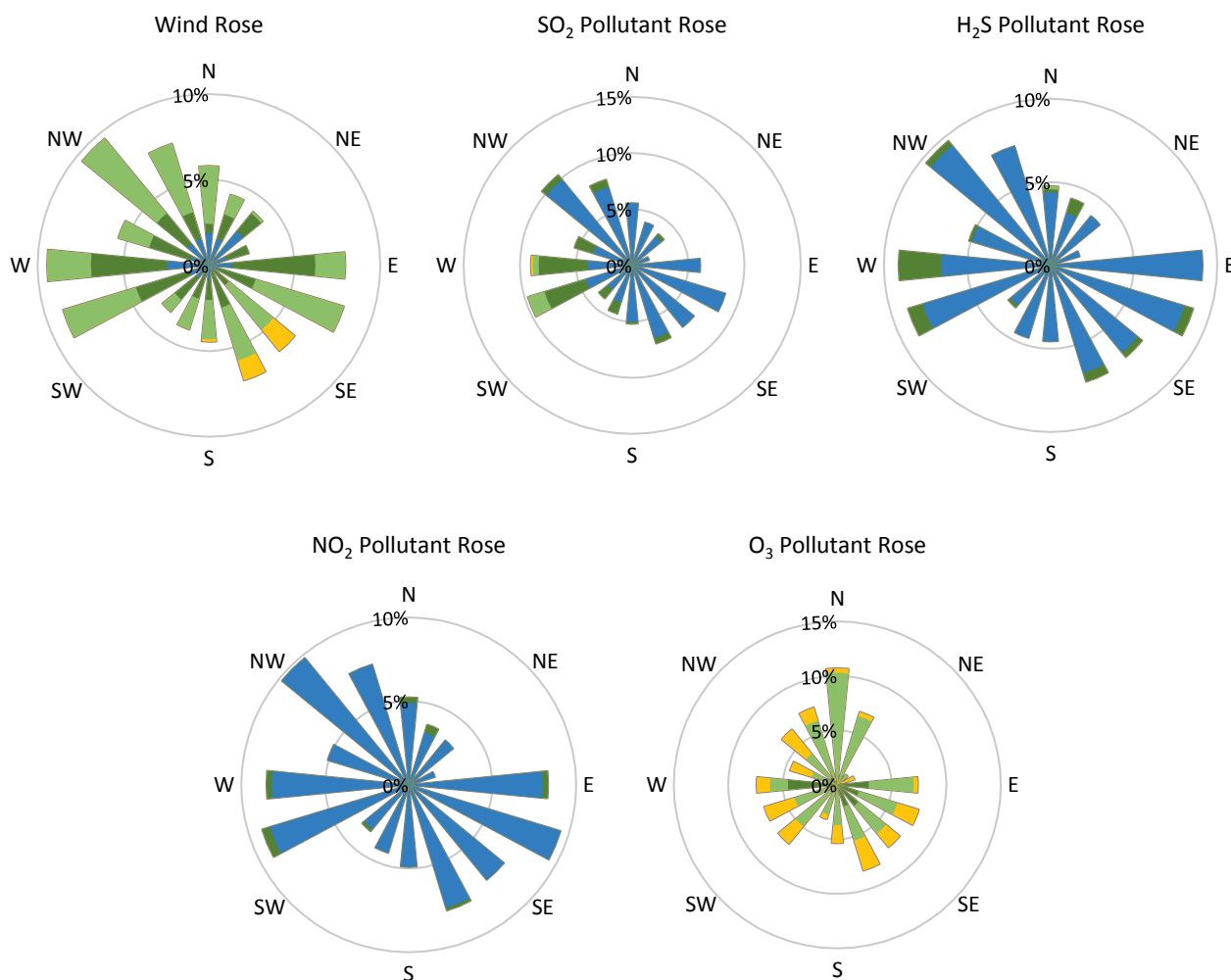
- Achieved 100% of scheduled uptime for all parameters except wind speed and direction
- All compliance parameters are above 90% data validity; no operational issues
- Wind speed and direction data was taken from Estevan Airport

SESAA Glen Ewen Station - May 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	0.3	93%	1.0	May-30	-	-	6.9	May-23 01:00	-	-
NO ₂	ppb	2.0	93%	4.3	May-25	106	0	10.3	May-23 01:00	159	0
NO _x	ppb	2.4	93%	4.9	May-25	-	-	17.2	May-23 01:00	-	-
SO ₂	ppb	0.7	90%	3.6	May-05	48	0	22.8	May-07 09:00	172	0
H ₂ S	ppb	0.4	93%	1.2	May-25	3.6	0	3.8	May-25 06:00	11	0
O ₃	ppb	30.6	36%	37.6	May-08	-	-	54.0	May-07 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	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$
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	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$

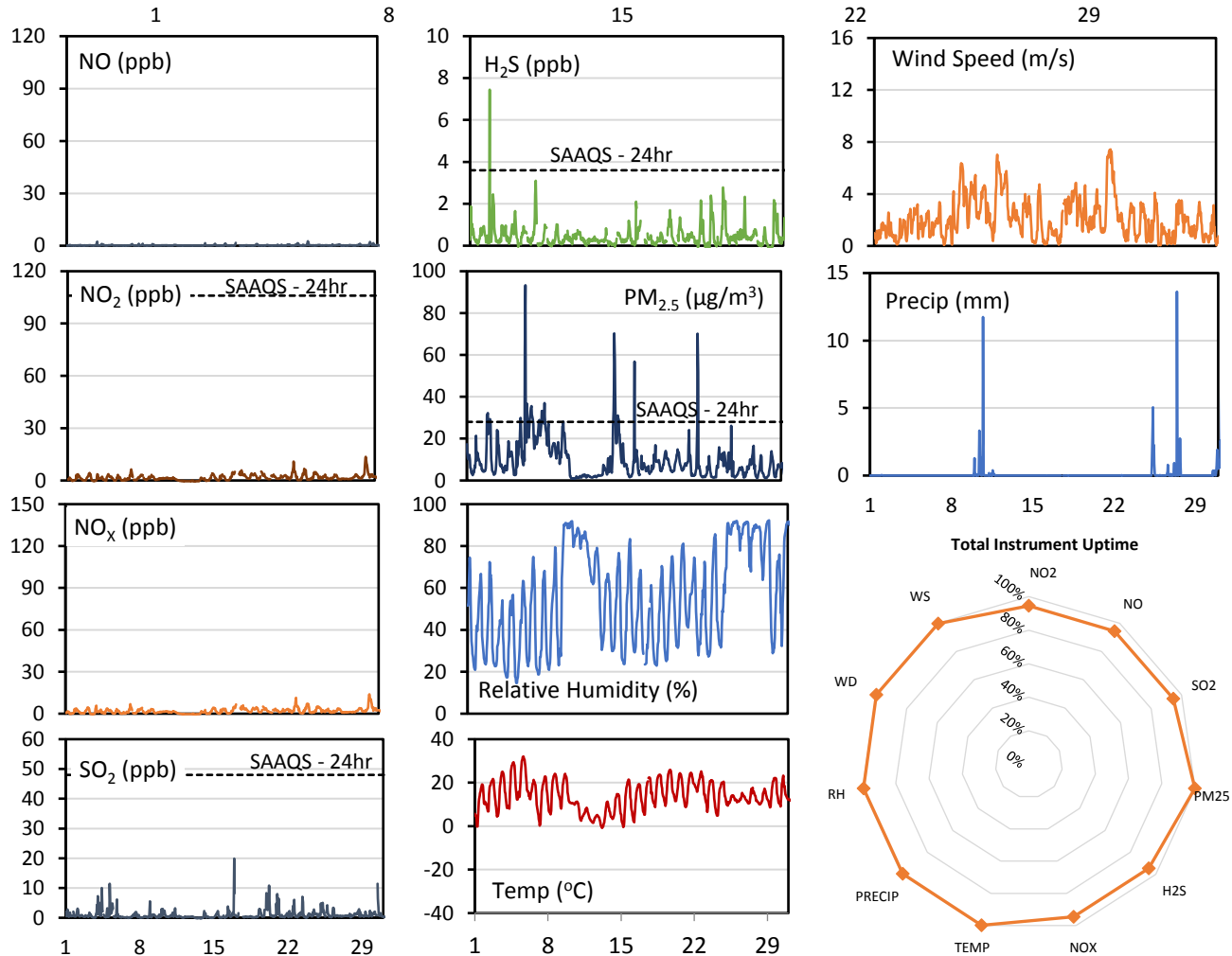
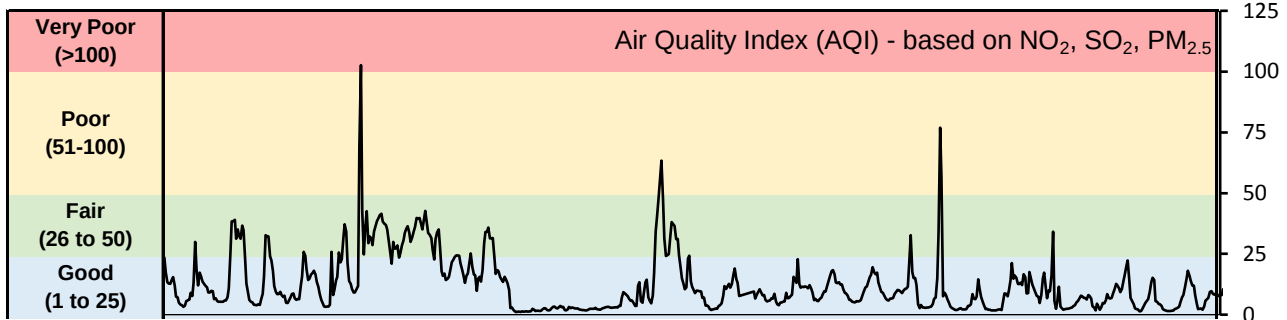
Monthly Update

- Achieved >97% of scheduled uptime for all parameters except SO₂ (93.7%) and O₃ (37.5%)
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- Data loss for O₃ due to missing hardware at monitoring station

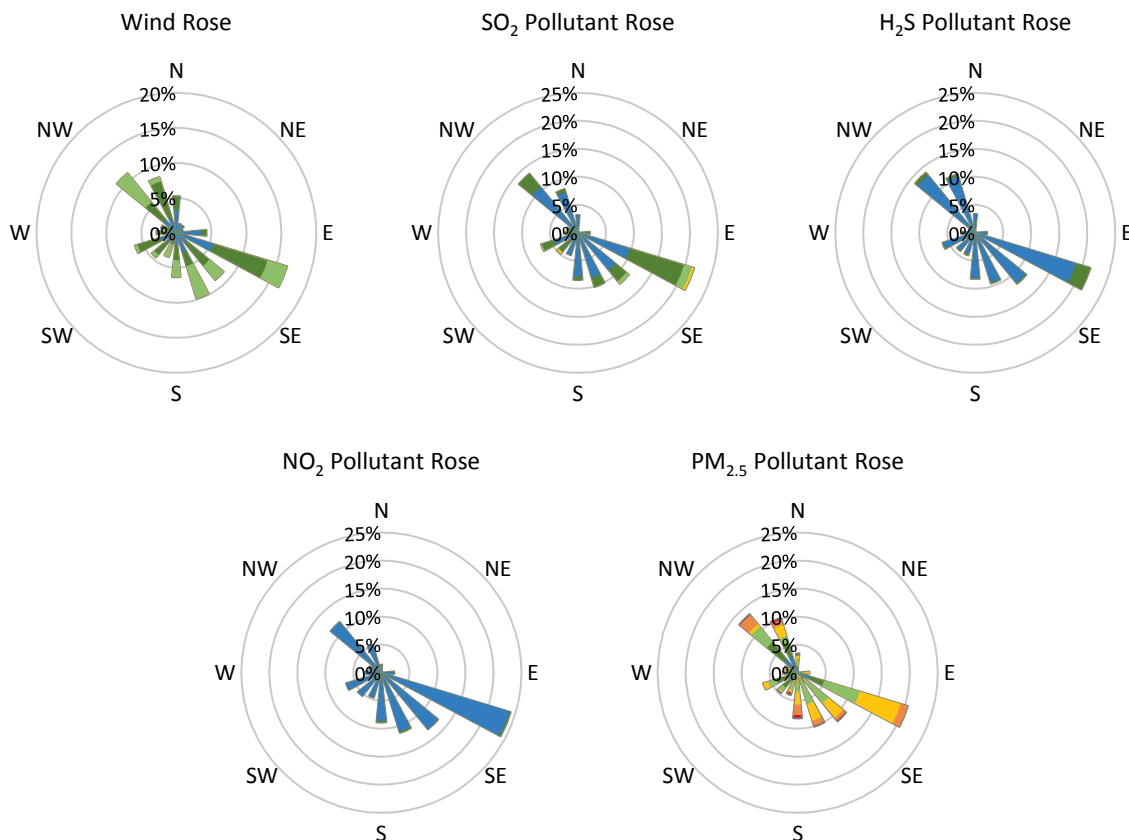
SESAA Oxbow Station - May 2016 Summary Report

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	94%	0.6	May-30	-	-	2.6	May-24 07:00	-	-
NO ₂	ppb	1.6	94%	5.1	May-30	106	0	13.6	May-30 03:00	159	0
NO _x	ppb	1.9	94%	5.7	May-30	-	-	13.9	May-30 03:00	-	-
SO ₂	ppb	1.0	94%	2.5	May-20	48	0	19.9	May-16 22:00	172	0
H ₂ S	ppb	0.5	94%	0.9	May-25	3.6	0	7.4	May-02 21:00	11	0
PM _{2.5}	µg/m ³	9.6	100%	25.1	May-07	28	0	93.3	May-06 14:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Oxbow Station - May 2016 Summary Report



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	

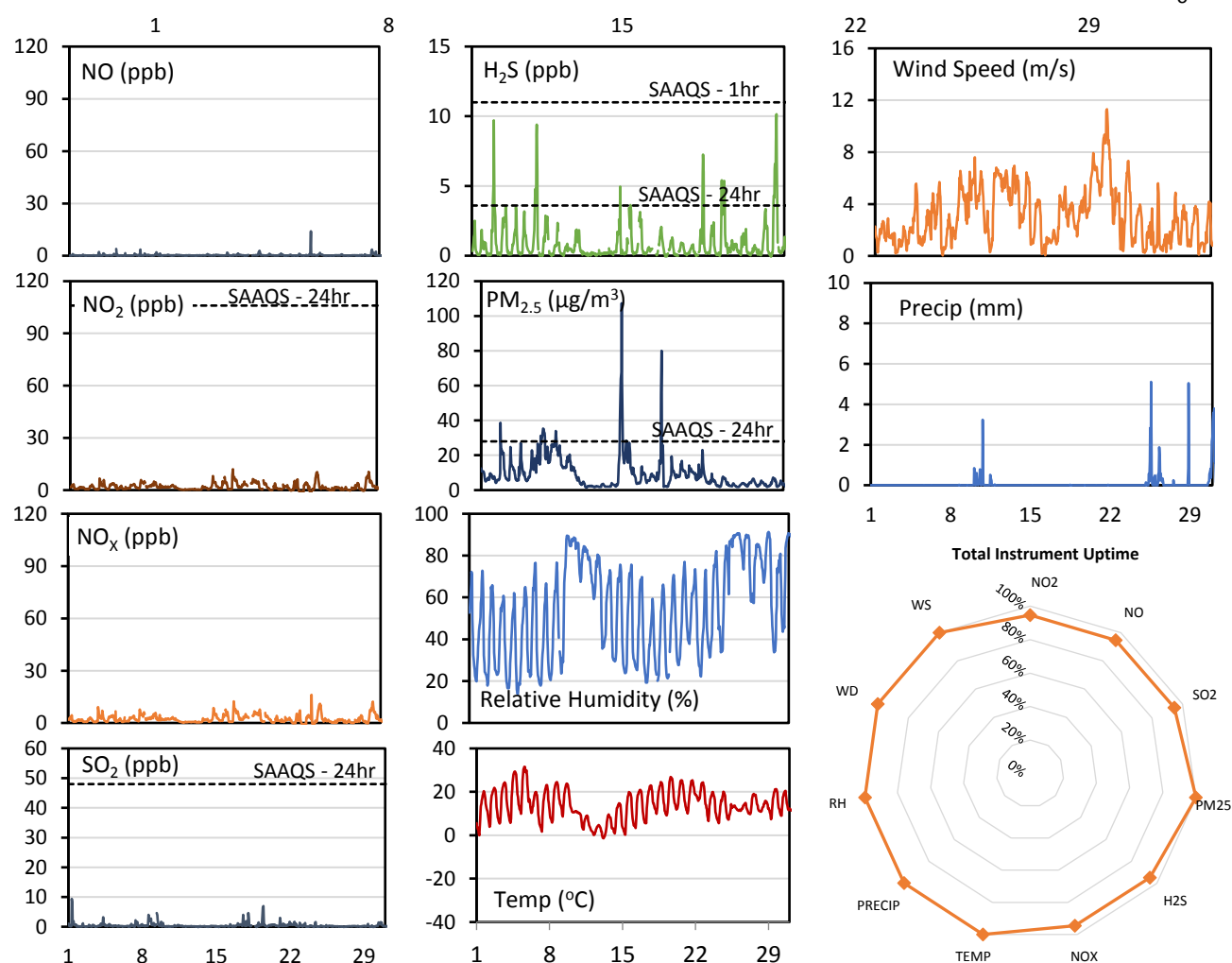
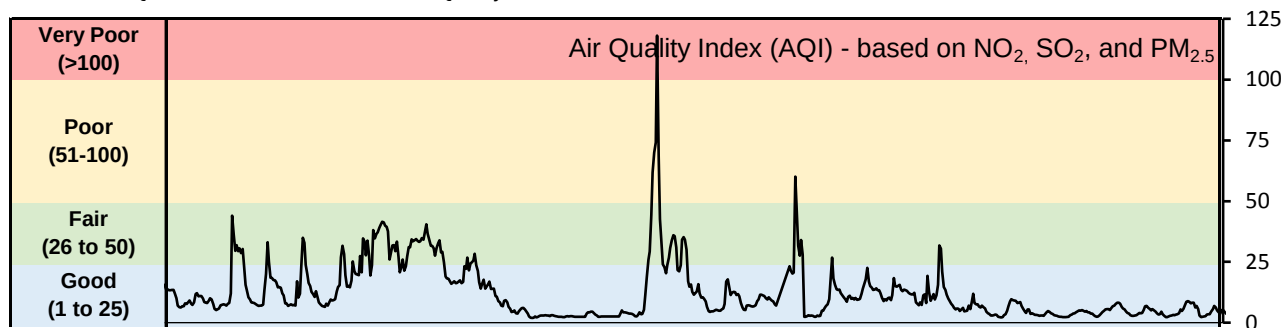
Monthly Update

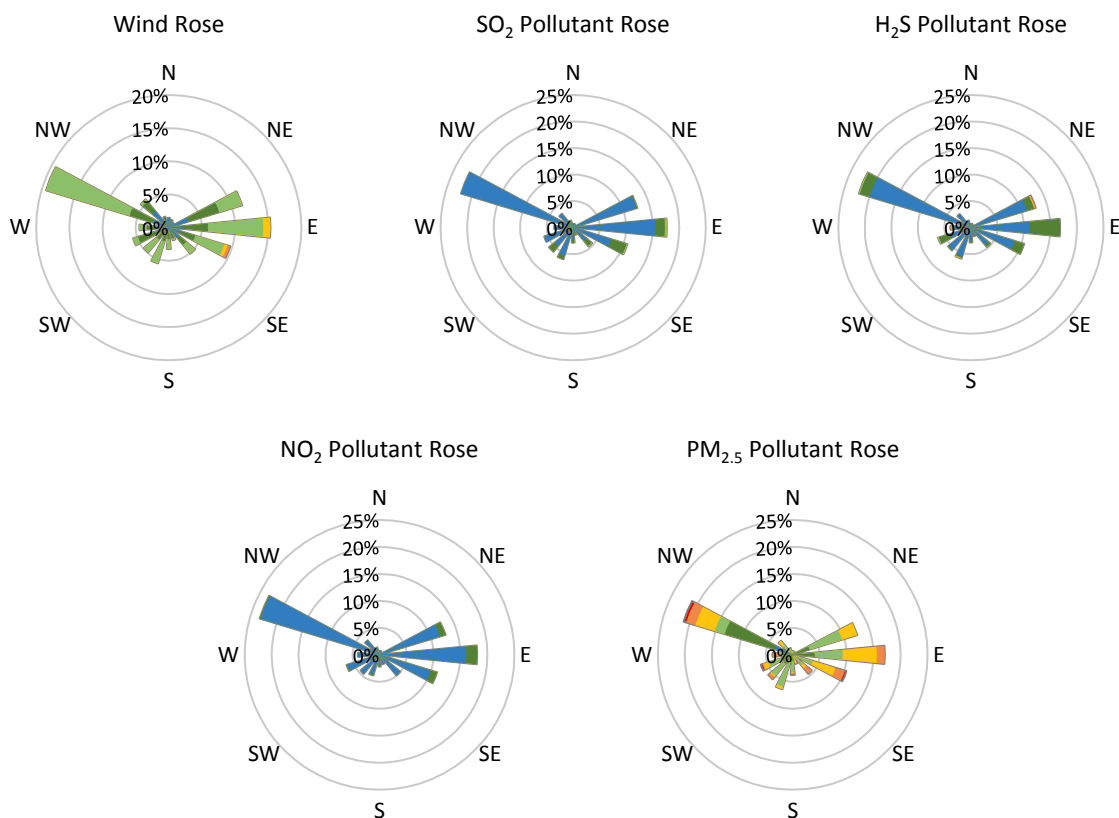
- Achieved >98% of scheduled uptime for all parameters
- All compliance parameters are above 90% data validity; no operational issues
- Downtime of 4% results from routine daily internal zeroes and spans

SESAA Stoughton Station - May 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	0.3	95%	1.0	May-24	-	-	14.0	May-24 09:00	-	-
NO ₂	ppb	1.9	95%	4.6	May-30	106	0	12.0	May-16 22:00	159	0
NO _x	ppb	2.2	95%	5.4	May-30	-	-	16.1	May-24 09:00	-	-
SO ₂	ppb	0.4	95%	1.3	May-19	48	0	9.4	May-01 08:00	172	0
H ₂ S	ppb	0.9	95%	2.6	May-30	3.6	0	10.1	May-30 06:00	11	0
PM _{2.5}	µg/m ³	9.3	100%	24.5	May-07	28	0	107.4	May-14 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}	µg/m ³	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

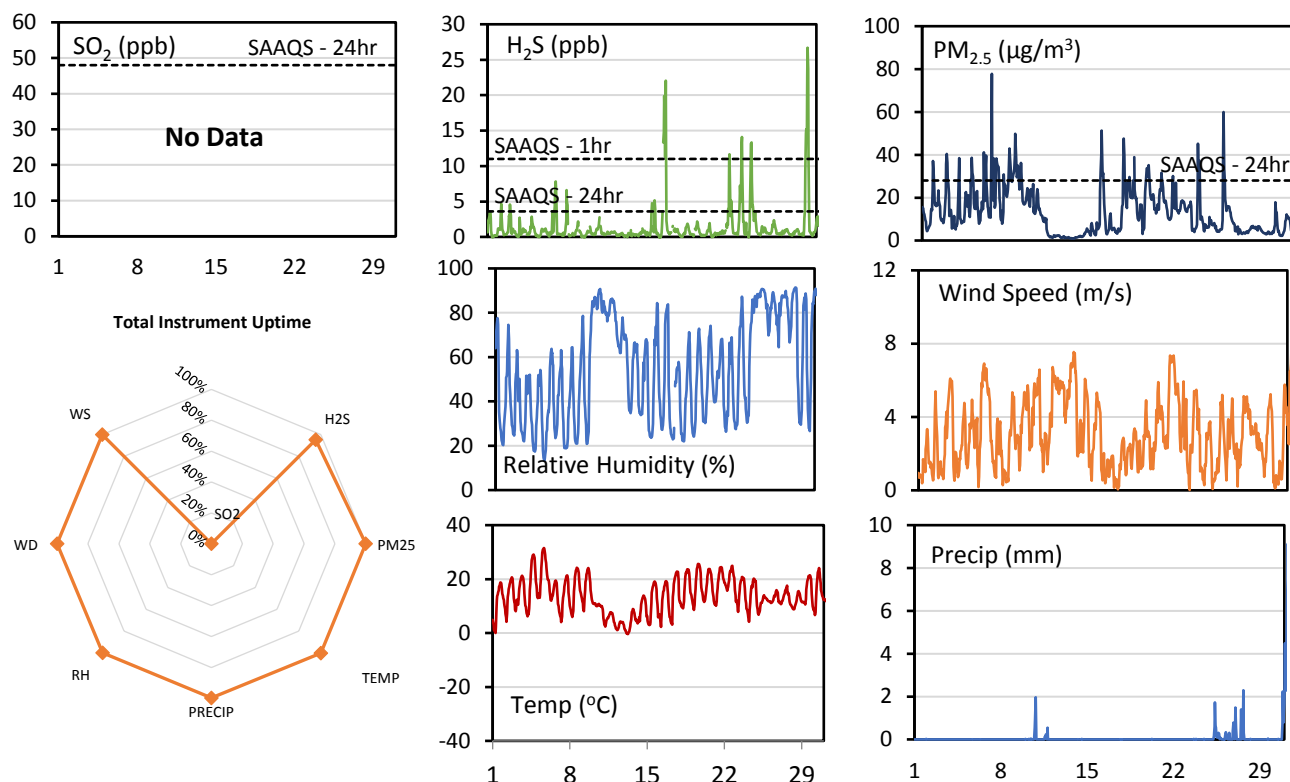
Monthly Update

- Achieved >98% 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

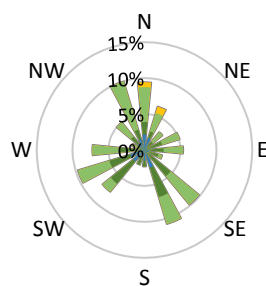
SESAA Wauchope Station - May 2016 Summary Report

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	NoData	0%	NoData	NoData	48	NoData	NoData	NoData	172	NoData
H ₂ S	ppb	1.4	95%	6.5	May-30	3.6	3	26.7	May-30 05:00	11	17
PM _{2.5}	µg/m ³	13.0	100%	32.2	May-08	28	1	77.8	May-06 13:00	-	-

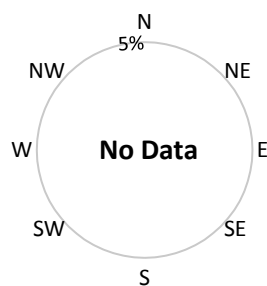
SAAQS: Saskatchewan Ambient Air Quality Standards



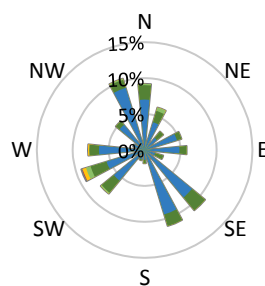
Wind Rose



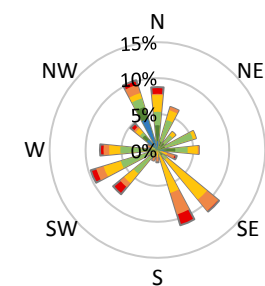
SO₂ Pollutant Rose



H₂S Pollutant Rose



PM_{2.5} Pollutant Rose



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 except SO₂ (0%)
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- Downtime for SO₂ resulting from instrument maintenance
- All compliance parameters (except SO₂) are above 90% data validity; no operational issues

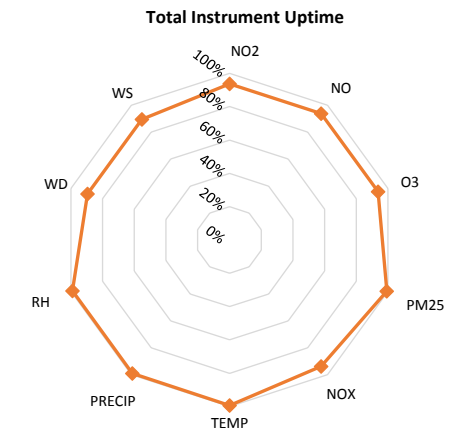
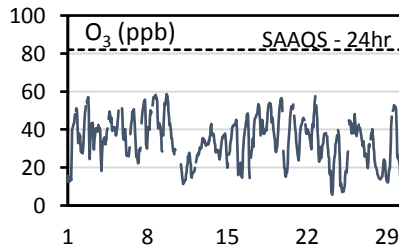
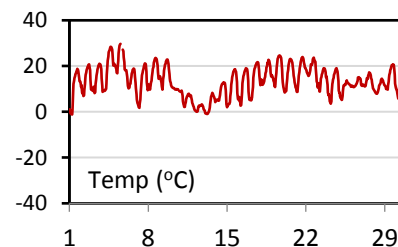
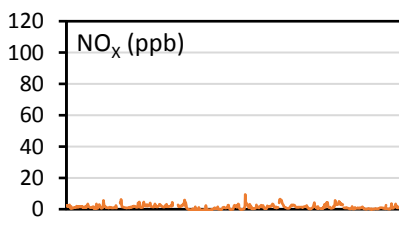
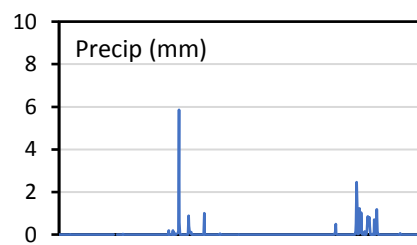
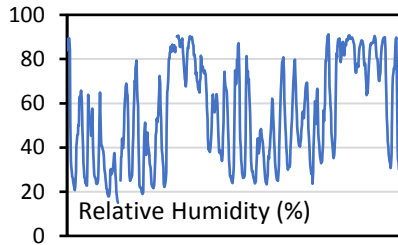
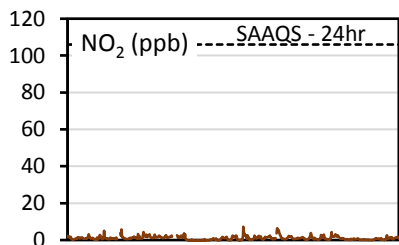
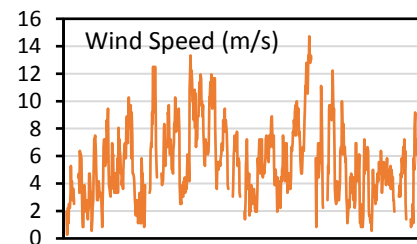
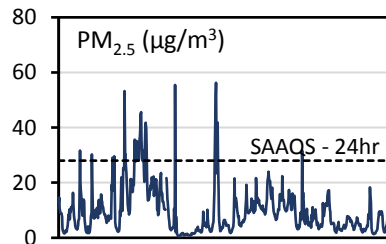
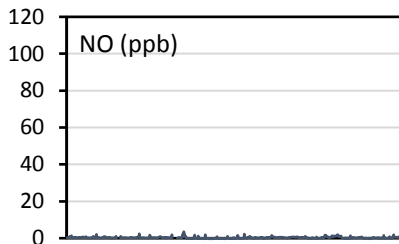
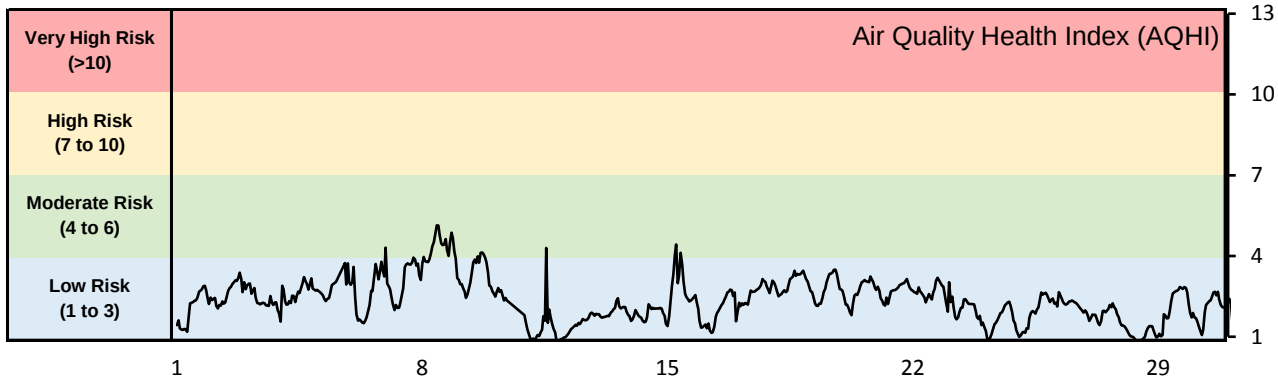
Exceedance Summary (1- Hour Average - Exceedances Highlighted)

Exceedance Time	SO ₂ ppb	PM _{2.5} µg/m ³	H ₂ S ppb	Temp C	WD deg	WS m/s
May-17 01:00	N/A	47.5	13.4	5.8	10.0	0.5
May-17 02:00	N/A	39.4	14.8	5.7	349.3	0.5
May-17 03:00	N/A	28.6	19.9	4.5	3.2	0.6
May-17 04:00	N/A	25.8	15.7	3.6	9.2	0.2
May-17 05:00	N/A	20.7	11.3	4.2	223.0	0.1
May-17 06:00	N/A	17.1	22.0	3.1	3.1	0.4
May-23 02:00	N/A	37.1	11.7	12.1	254.6	1.4
May-24 04:00	N/A	7.4	13.2	5.7	266.5	0.6
May-24 05:00	N/A	7.7	14.1	4.2	196.2	0.4
May-25 01:00	N/A	33.3	13.2	7.3	11.1	0.5
May-25 02:00	N/A	27.5	13.3	6.8	21.5	0.6
May-30 01:00	N/A	11.4	14.6	9.0	13.3	0.2
May-30 02:00	N/A	11.2	15.2	8.4	243.7	0.8
May-30 03:00	N/A	11.2	14.9	8.8	262.2	0.5
May-30 04:00	N/A	10.3	22.8	7.5	350.0	0.5
May-30 05:00	N/A	10.3	26.7	6.6	358.6	0.6
May-30 06:00	N/A	10.2	23.7	7.6	356.0	0.3

SESAA Wawota Station - May 2016 Summary Report

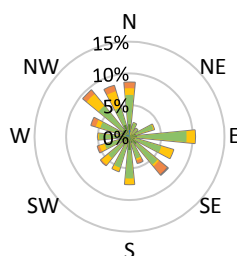
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.3	94%	0.8	May-25	-	-	3.5	May-11 12:00	-	-
NO ₂	ppb	1.0	94%	2.0	May-20	106	0	7.2	May-16 22:00	159	0
NO _x	ppb	1.3	94%	2.5	May-25	-	-	9.4	May-16 22:00	-	-
O ₃	ppb	34.6	94%	49.5	May-08	-	-	58.6	May-09 16:00	82	0
PM _{2.5}	µg/m ³	9.6	99%	33.4	May-08	28	1	56.3	May-15 06:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

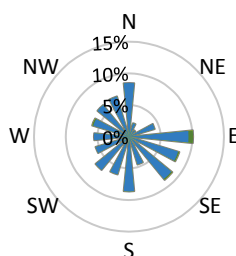


SESAA Wawota Station - May 2016 Summary Report

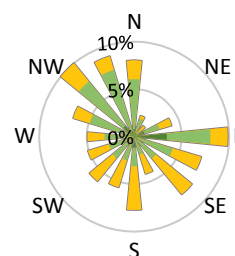
Wind Rose



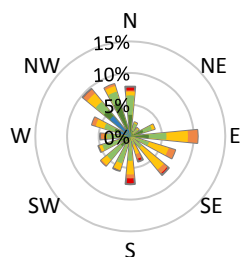
NO₂ Pollutant Rose



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 ≤ 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 >97%% of scheduled uptime for all parameters except wind direction and speed (89.5%)
- Downtime of 4% due to routine daily internal zeroes and spans
- All compliance parameters are above 90% validity
- Wind direction and speed taken from Estevan Airport

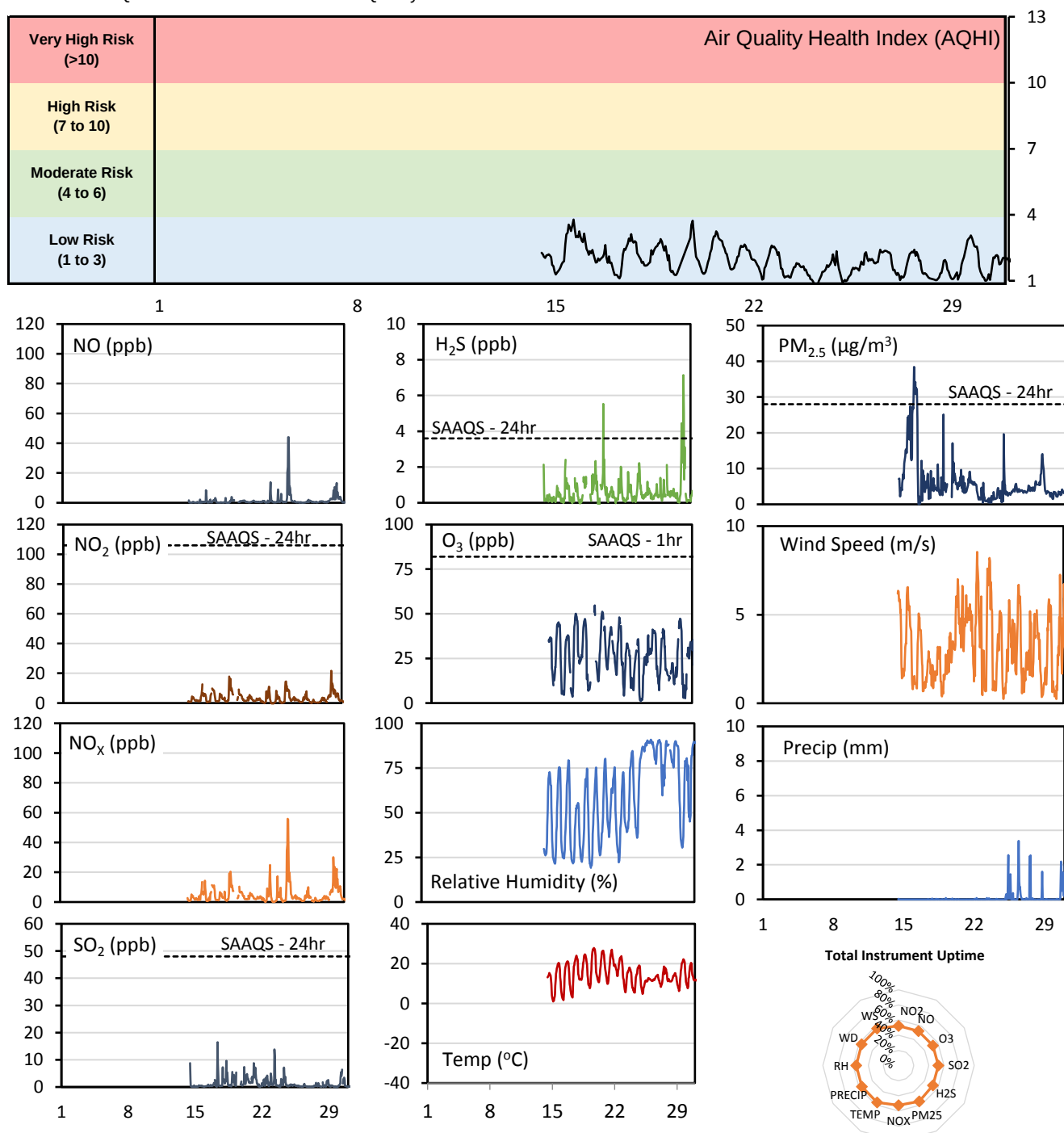
Exceedance Summary (24- Hour Average - Exceedances Highlighted)

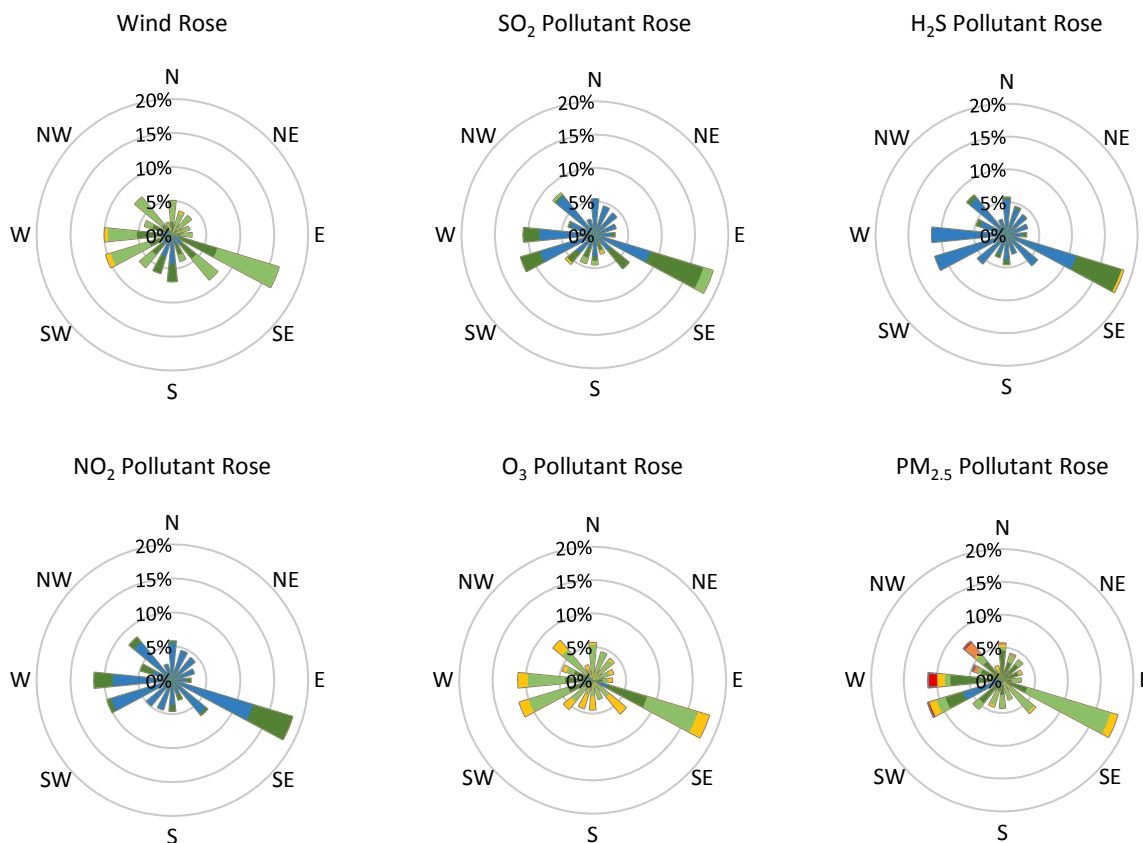
Exceedance Time	AQI	NO ₂ ppb	NO ppb	SO ₂ ppb	PM _{2.5} ug/m ³	NO _x ppb	Temp C	WD deg	WS m/s
May-08	4.3	1.9	0.3	49.5	33.4	2.2	17.1	168.8	7.9

SESAA Weyburn Station - May 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	1.5	52%	8.3	May-25	-	-	44.0	May-25 02:00	-	-
NO ₂	ppb	3.2	52%	7.5	May-19	106	0	21.7	May-29 21:00	159	0
NO _x	ppb	4.7	52%	13.8	May-25	-	-	55.9	May-25 01:00	-	-
SO ₂	ppb	1.3	53%	2.6	May-20	48	0	16.5	May-17 08:00	172	0
H ₂ S	ppb	0.6	52%	1.6	May-30	3.6	0	7.1	May-30 05:00	11	0
O ₃	ppb	26.2	52%	32.8	May-20	-	-	54.7	May-19 19:00	82	0
PM _{2.5}	µg/m ³	5.8	55%	19.0	May-15	28	0	38.4	May-16 00:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards





Parameters	Unit	Color Code for Wind Speed and Pollution Concentration Class					
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$
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 54-57% of scheduled uptime for all parameters
- Downtime of 4% due to routine daily Internal Zeroes and Spans
- Downtime at beginning of month due to air conditioner repairs