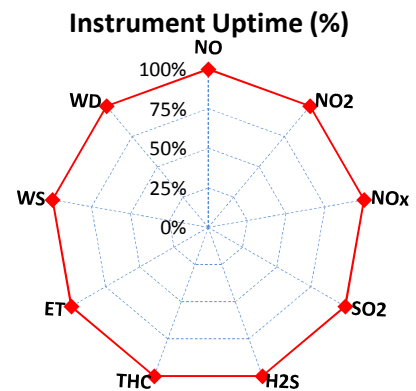
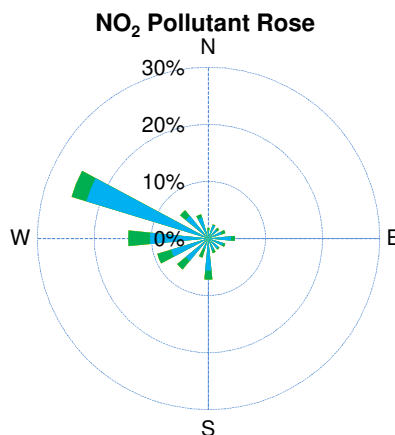
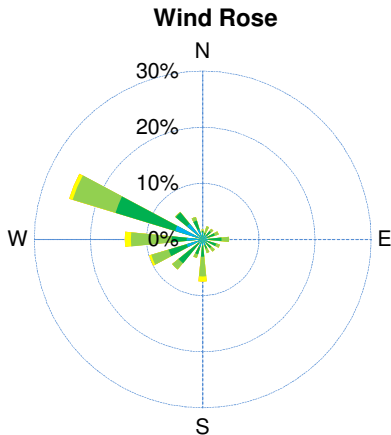
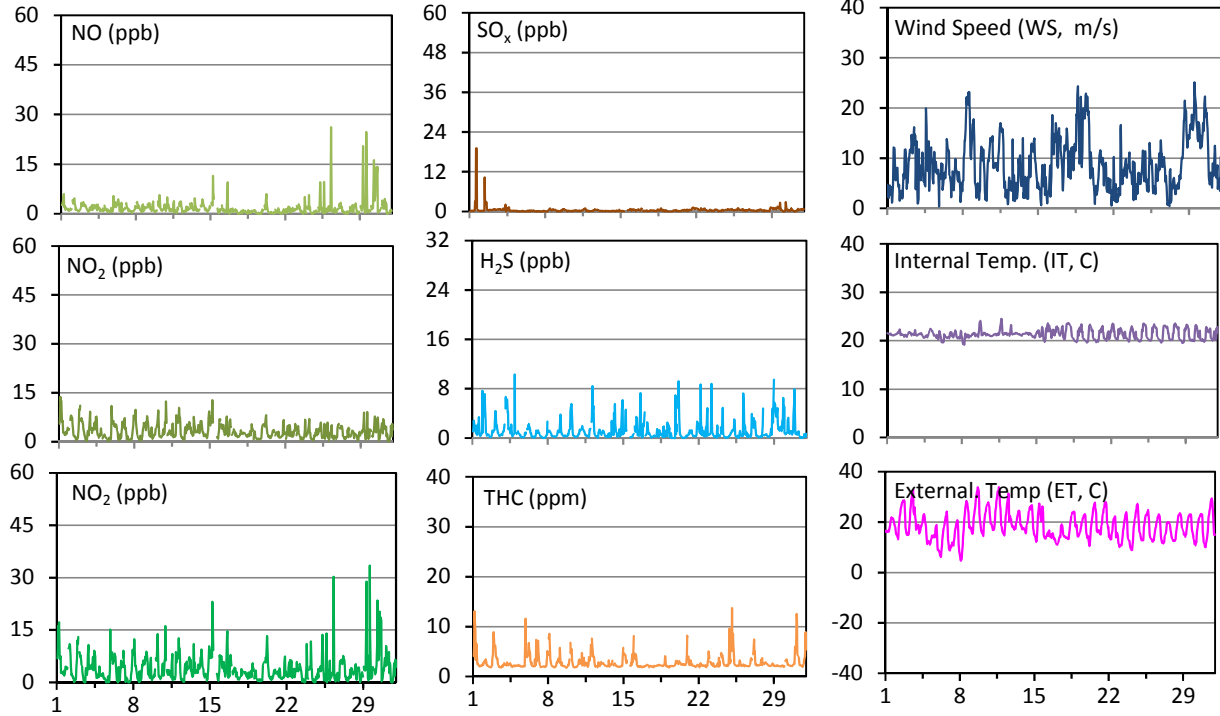


Lloydminster East Station - July 2015 Summary Report

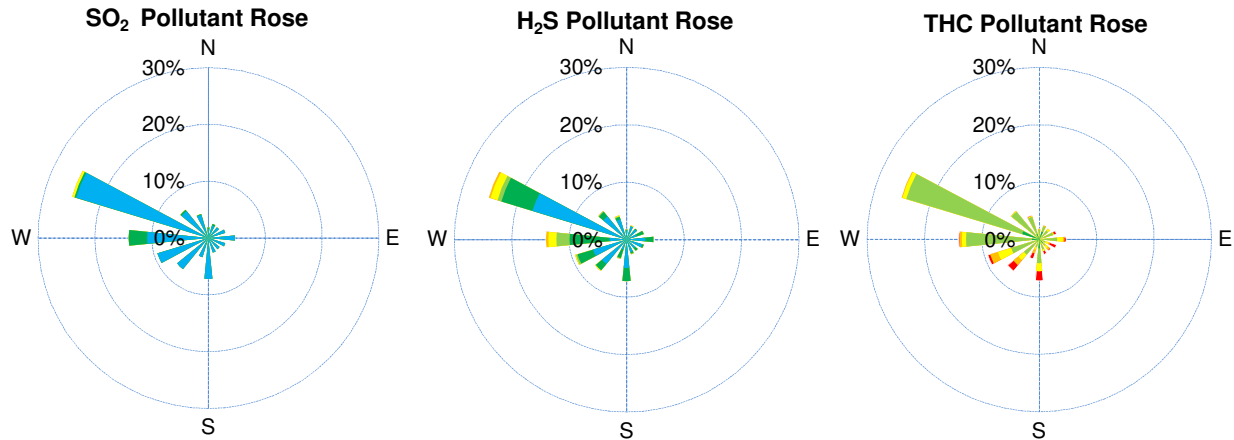
Pollutants		Month Records		24-Hour Records				1-Hour Records			
				Maximum		SAAQS Standards	Exceed Days	Maximum		SAAQS Standards	Exceed Hours
				Conc.	Time			Conc.	Time		
Name	Conc. Unit	Avg. Conc.	Uptime								
NO	ppb	1.7	100.0%	5.0	Jul-30	-	-	26.2	Jul-26 08:00	-	-
NO ₂	ppb	3.2	100.0%	5.1	Jul-1	106	0	13.8	Jul-01 04:00	159	0
NO _x	ppb	4.0	100.0%	8.1	Jul-30	-	-	33.5	Jul-29 15:00	-	-
SO ₂	ppb	0.5	100.0%	2.1	Jul-1	48	0	19.1	Jul-01 15:00	172	0
H ₂ S	ppb	1.2	100.0%	2.9	Jul-29	3.6	0	10.3	Jul-04 23:00	11.0	0
THC	ppm	2.8	100.0%	4.2	Jul-31	-	-	13.7	Jul-25 03:00	-	-

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 < 10.8	C ≥ 10.8
THC	ppm	0 ≤ C < 1	1 ≤ C < 2	2 ≤ C < 3	3 ≤ C < 4	4 ≤ C < 5	C ≥ 5

Lloydminster East Station - July 2015 Summary Report



Monthly Update

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

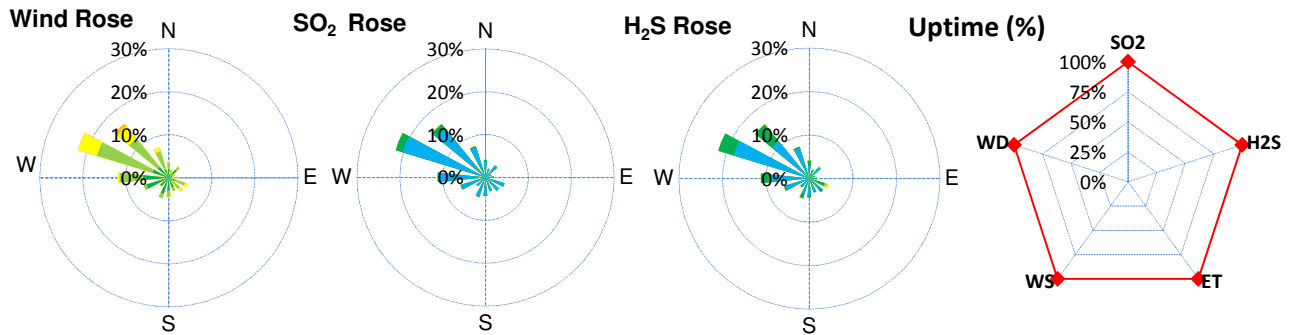
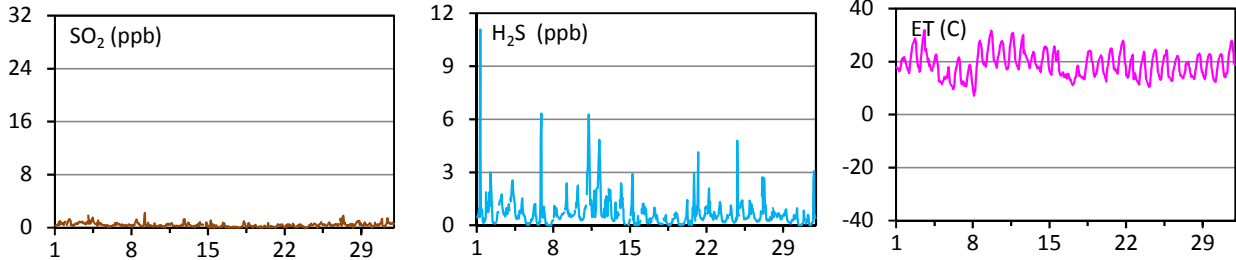
*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.

*All compliance parameters are above 90% operational. There are no operational issues to report.

Lloydminster West Station - July 2015 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
				Maximum		AAAQO / SAAQS	Exceed Days	Maximum		AAAQO / SAAQS	Exceed Hours
Name	Conc. Unit	Avg. Conc.	Uptime	Conc.	Time			Conc.	Time		
SO ₂	ppb	0.4	100.0%	0.8	Jul-4	48 / 48	0 / 0	2.2	Jul-09 06:00	172 / 172	0 / 0
H ₂ S	ppb	0.7	100.0%	2	Jul-11	3 / 3.6	0 / 0	11	Jul-01 08:00	10 / 11.0	1 / 1

AAAQO: Alberta Ambient Air Quality Objectives; 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
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

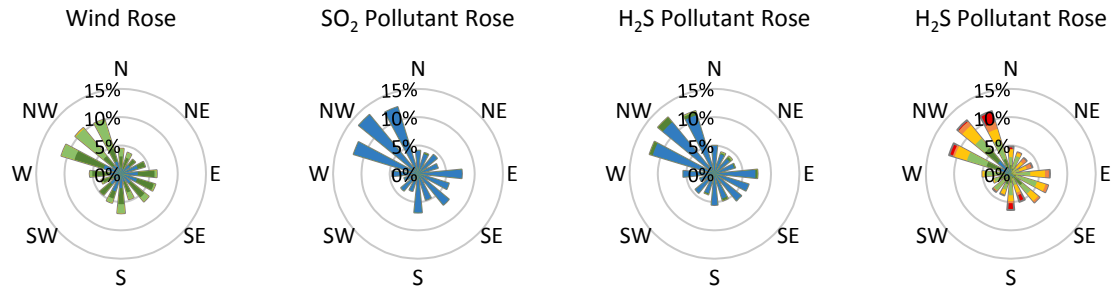
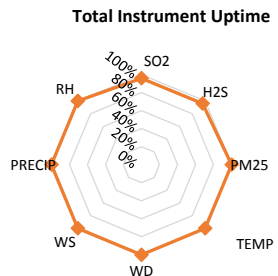
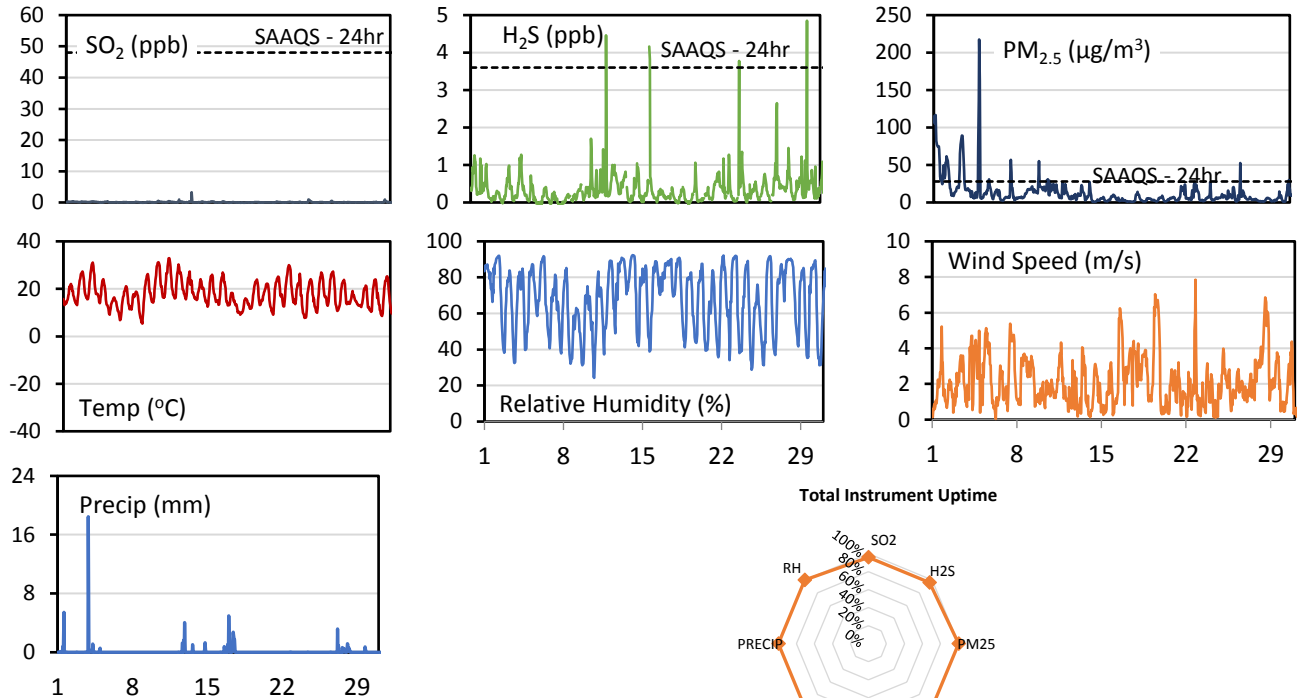
Monthly Update

- *Air monitoring data has been slope, intercept, and baseline corrected. Data may change after validation process.
- *All compliance parameters were within the Alberta Ambient Air Quality Objectives, and the Saskatchewan Ambient Air Quality Standards, with the exception of one 1-hour H₂S exceedance at 08:00 MST of July 1. The concentration recorded was 11 ppb.
- *All compliance parameters are above 90% operational. There are no operational issues to report.

WYAMZ Kindersley Station - July 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	0.1	96%	0.2	Jul-12	48	0	3.3	Jul-12 15:00	172	0
H ₂ S	ppb	0.3	96%	0.7	Jul-27	3.6	0	4.9	Jul-29 21:00	11	0
PM _{2.5}	µg/m ³	12.6	100%	63.5	Jul-01	28	2	217.5	Jul-04 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 results from routine daily Internal Zeroes and Spans
- No operational issues

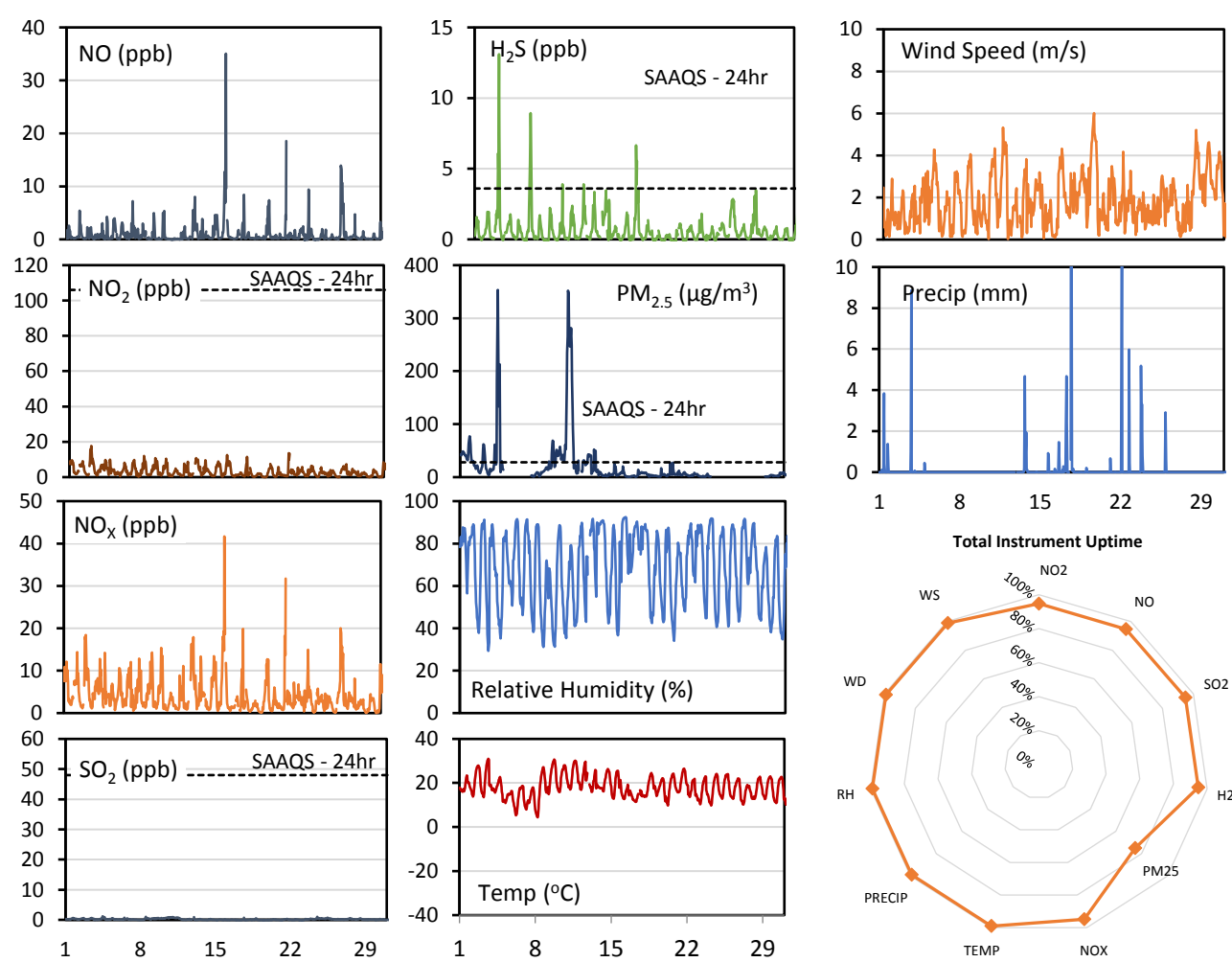
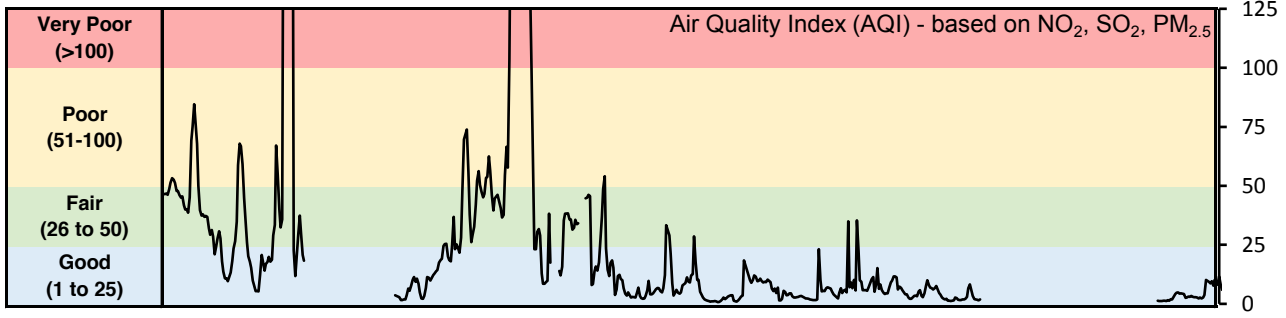
Exceedance Summary (24- Hour Average - Exceedances Highlighted)						
Exceedance Day	SO ₂ ppb	PM _{2.5} µg/m ³	H ₂ S ppb	Temp °C	WD deg	WS m/s
Jul-01	0.2	63.5	0.6	17.3	227.6	1.8
Jul-04	0.1	32.7	0.4	18.5	272.0	3.1



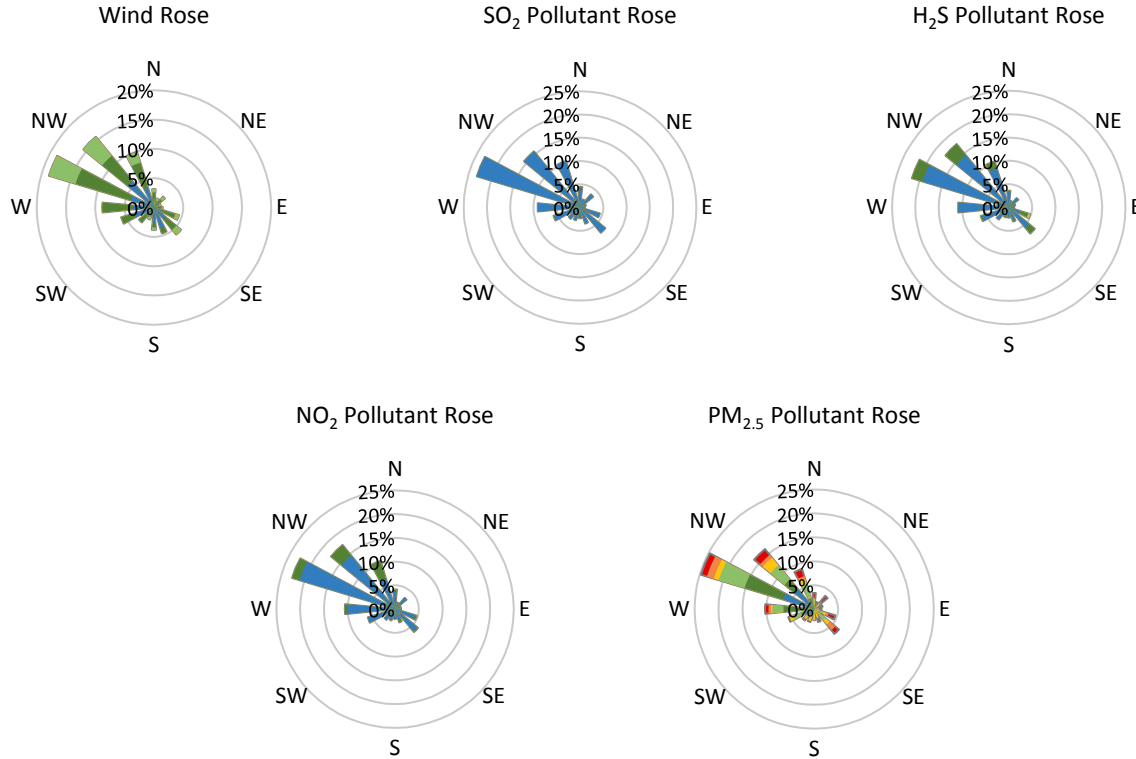
WYAMZ Maidstone Station - July 2015 Summary Report

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	1.0	95%	4.0	Jul-16	-	-	35.0	Jul-16 05:00	-	-
NO ₂	ppb	3.2	95%	6.0	Jul-03	106	0	17.7	Jul-03 02:00	159	0
NO _x	ppb	4.2	95%	7.9	Jul-16	-	-	41.7	Jul-16 05:00	-	-
SO ₂	ppb	0.2	95%	0.6	Jul-10	48	0	1.2	Jul-04 11:00	172	0
H ₂ S	ppb	0.6	95%	1.9	Jul-03	3.6	0	13.1	Jul-03 07:00	11	1
PM _{2.5}	µg/m ³	22.2	75%	132.7	Jul-11	28	5	353.2	Jul-04 12:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



WYAMZ Maidstone Station - July 2015 Summary Report



Parameters	Unit	Color Code for Wind Speed and Pollution Concentration Class					
		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

- Significant forest fire activity had an impact on particulate monitoring equipment throughout the month
- Achieved >99% of scheduled uptime with the exception of PM (75%).
- Downtime results from operational issues (PM) and routine daily Internal Zeroes and Spans

Exceedance Summary (1- Hour Average - Exceedances Highlighted)

Exceedance Time	AQI	NO ₂ ppb	NO ppb	SO ₂ ppb	PM _{2.5} µg/m ³	NO _x ppb	H ₂ S ppb	Temp °C	WD deg	WS m/s
Jul-03 07:00	44.8	8.1	2.1	0.3	39.7	10.2	13.1	15.7	144.3	0.6

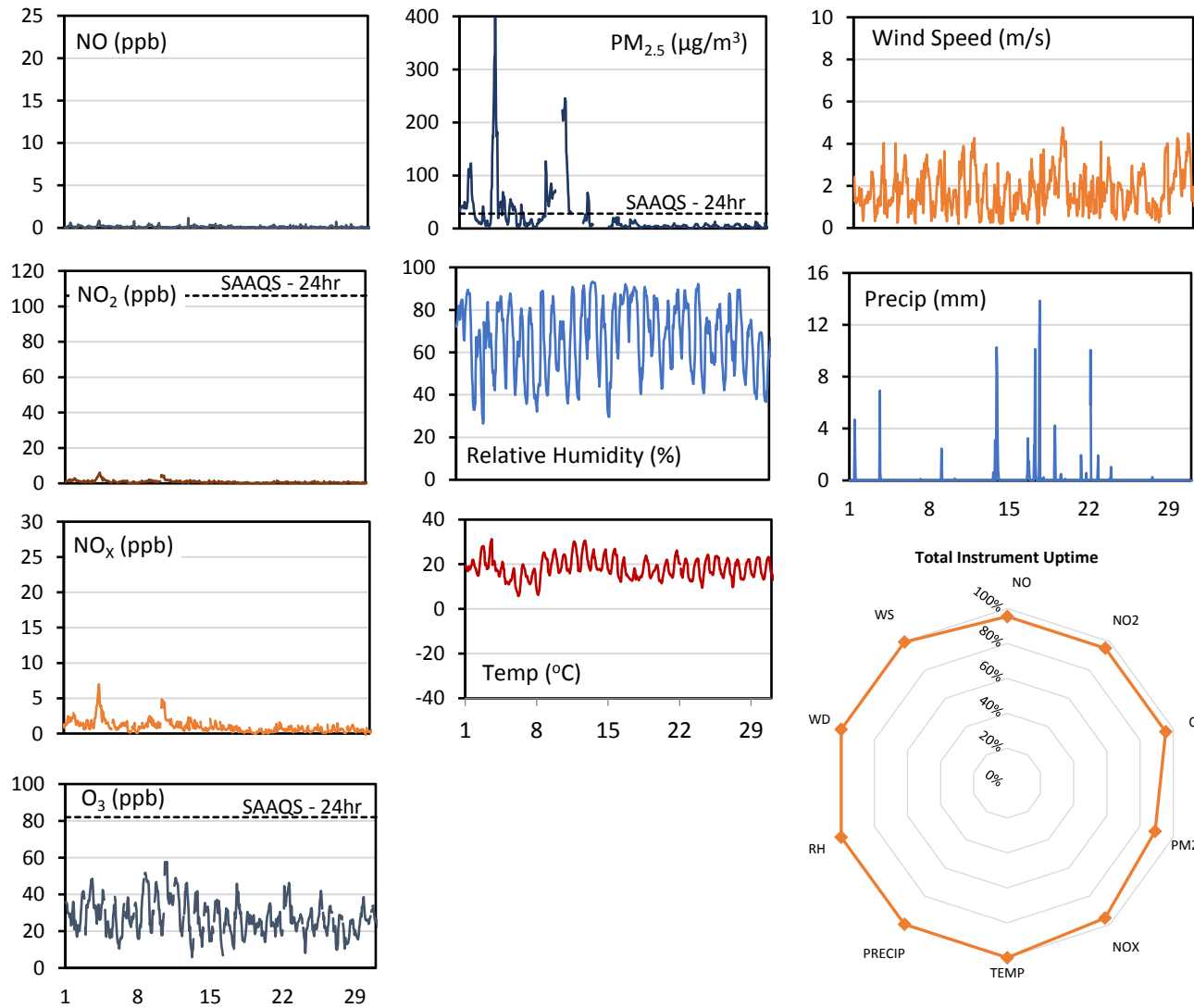
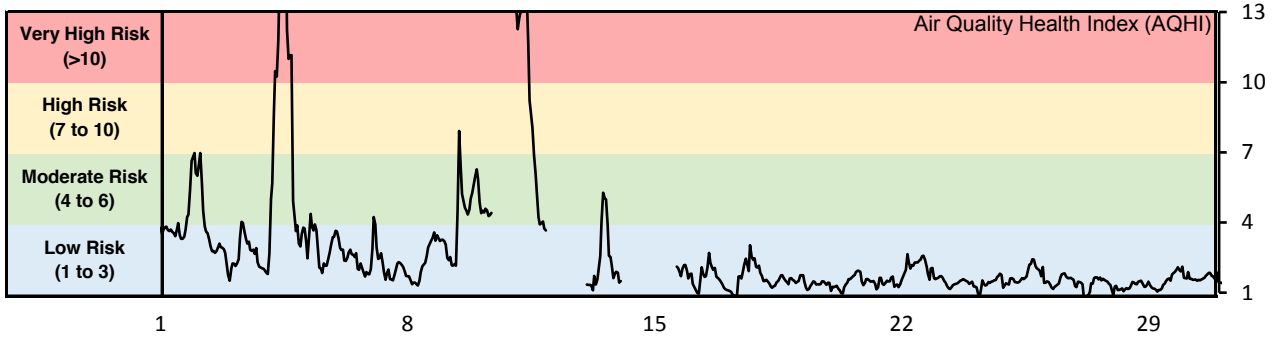
Exceedance Summary (24- Hour Average - Exceedances Highlighted)

Exceedance Day	AQI	NO ₂ ppb	NO ppb	SO ₂ ppb	PM _{2.5} µg/m ³	NO _x ppb	H ₂ S ppb	Temp °C	WD deg	WS m/s
Jul-01	51.5	5.1	0.6	0.3	47.2	5.7	0.5	18.7	257.5	1.0
Jul-04	90.4	5.4	0.9	0.4	82.3	6.3	0.6	18.4	285.0	1.9
Jul-09	37.9	4.2	0.7	0.4	30.9	4.9	0.6	23.0	188.6	1.2
Jul-10	74.8	3.5	0.9	0.6	68.2	4.4	0.8	22.3	110.4	2.3
Jul-11	145.9	2.4	0.1	0.5	132.7	2.5	0.9	23.6	114.6	2.8

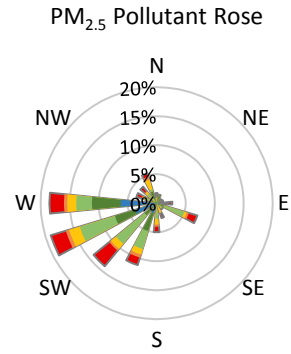
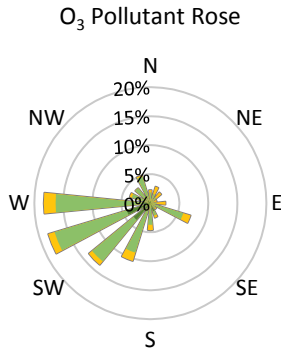
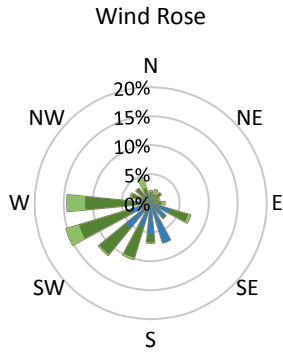
WYAMZ Meadow Lake Station - July 2015 Summary Report

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	0.1	95%	0.3	Jul-04	-	-	1.2	Jul-13 06:00	-	-
NO ₂	ppb	0.8	96%	3.4	Jul-04	106	0	6.1	Jul-04 11:00	159	0
NO _x	ppb	0.9	95%	3.7	Jul-04	-	-	7.0	Jul-04 11:00	-	-
O ₃	ppb	27.6	95%	41.1	Jul-11	-	-	57.6	Jul-10 16:00	82	0
PM _{2.5}	µg/m ³	22.6	89%	143.7	Jul-04	28	7	397.4	Jul-04 12:00	-	-

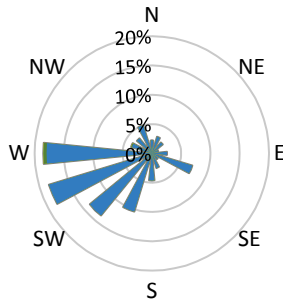
SAAQS: Saskatchewan Ambient Air Quality Standards



WYAMZ Meadow Lake Station - July 2015 Summary Report



NO₂ 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

- Significant forest fire activity had an impact on particulate monitoring equipment throughout the month
- Achieved >99% of scheduled uptime with the exception of PM (89%)
- Downtime results from operational issues (PM) and routine daily Internal Zeroes and Spans

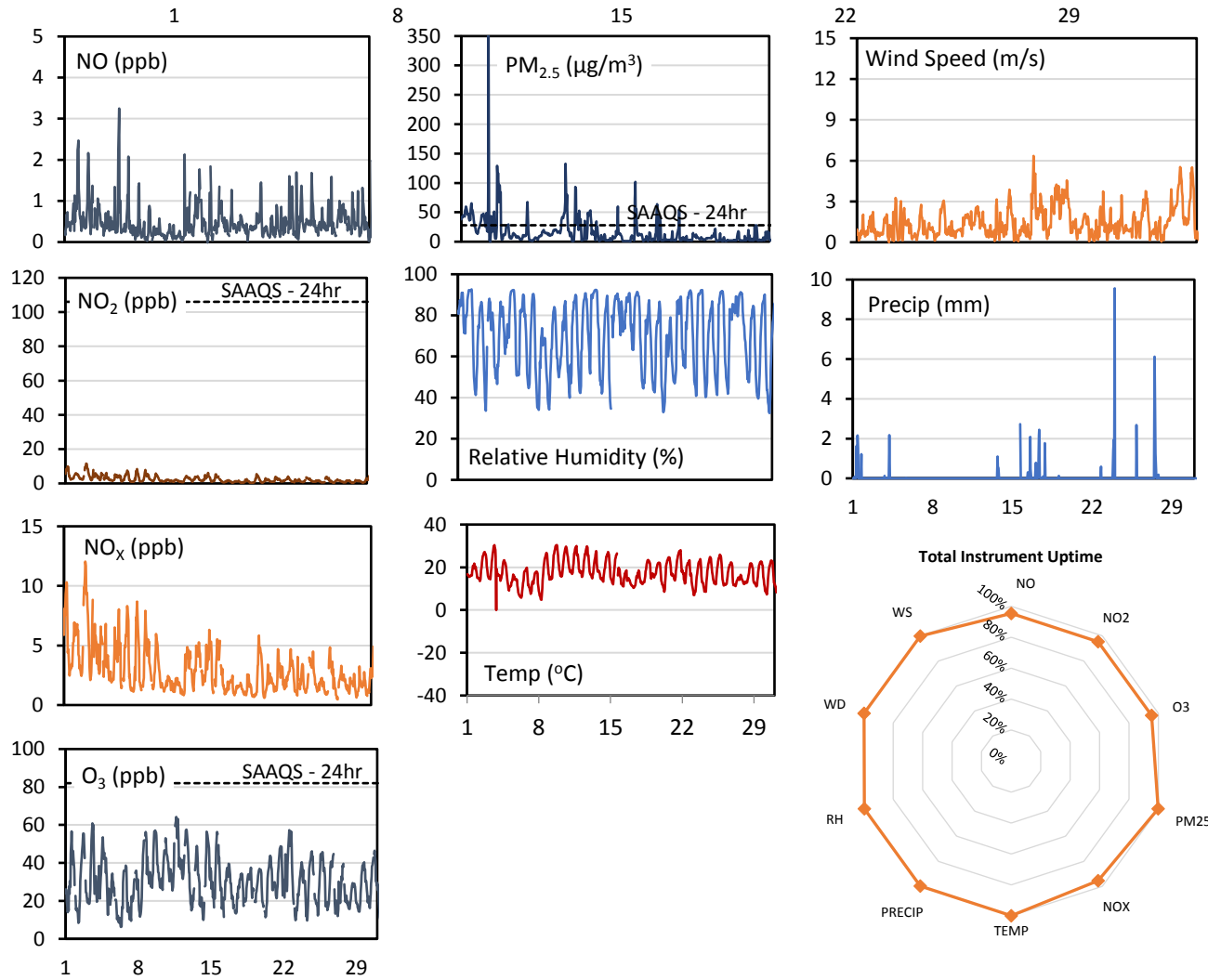
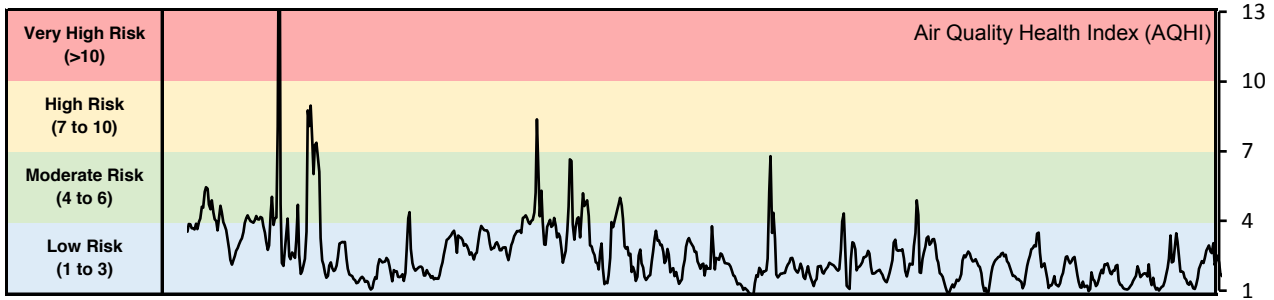
Exceedance Summary (24- Hour Average - Exceedances Highlighted)

Exceedance Time	AQI	NO ₂ ppb	NO ppb	O ₃ ppb	PM _{2.5} µg/m ³	NO _x ppb	Temp °C	WD deg	WS m/s
Jul-01	4.1	1.6	0.2	30.1	51.4	1.8	19.2	228.1	1.3
Jul-02	3.6	1.3	0.2	27.7	43.2	1.5	21.4	235.0	1.5
Jul-04	8.8	3.4	0.3	30.6	143.7	3.7	16.8	262.4	1.5
Jul-05	3.0	1.2	0.1	23.8	35.7	1.3	13.1	278.3	2.1
Jul-09	4.2	1.4	0.2	34.3	48.1	1.6	21.3	207.6	1.4
Jul-10	5.3	2.3	0.1	36.8	67.1	2.4	20.2	104.8	2.0
Jul-11	8.7	1.4	0.0	41.1	132.9	1.5	23.2	97.3	2.5

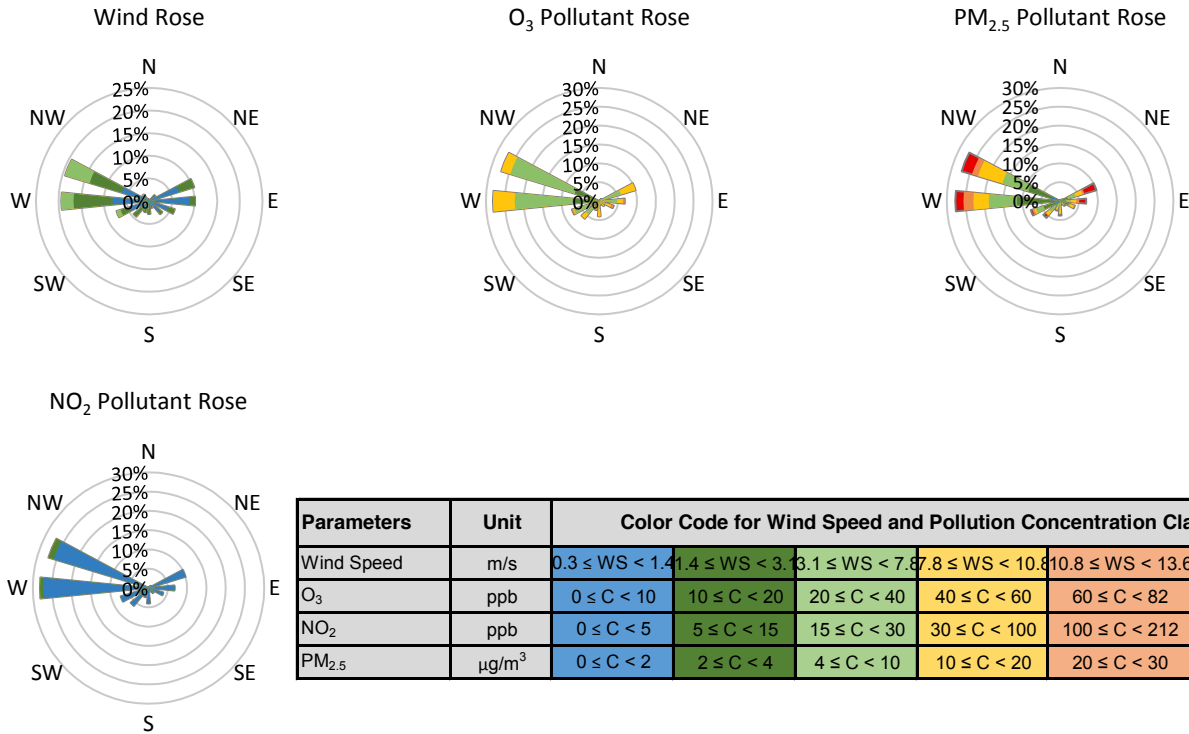
WYAMZ Unity Station - July 2015 Summary Report

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	95%	0.9	Jul-02	-	-	3.2	Jul-06 09:00	-	-
NO ₂	ppb	2.4	95%	5.9	Jul-03	106	0	11.6	Jul-03 02:00	159	0
NO _x	ppb	2.9	95%	6.7	Jul-03	-	-	12.0	Jul-03 02:00	-	-
O ₃	ppb	30.6	95%	43.9	Jul-11	-	-	64.2	Jul-11 16:00	82	0
PM _{2.5}	µg/m ³	15.5	100%	48.5	Jul-03	28	6	352.9	Jul-03 16:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



WYAMZ Unity Station - July 2015 Summary Report



Monthly Update

- Achieved >99% of scheduled uptime
- Downtime results from routine daily Internal Zeroes and Spans
- No operational issues

Exceedance Summary (24- Hour Average - Exceedances Highlighted)

Exceedance Time	AQI	NO ₂ ppb	NO ppb	O ₃ ppb	PM _{2.5} µg/m ³	NO _x ppb	Temp °C	WD deg	WS m/s
Jul-01	4.3	5.1	0.4	31.2	46.7	5.6	17.8	214.1	0.7
Jul-02	3.4	4.2	0.9	30.2	30.8	5.2	20.5	235.4	1.0
Jul-03	4.6	5.9	0.8	33.9	48.5	6.7	21.2	136.9	1.0
Jul-04	4.4	3.9	0.5	35.7	46.3	4.5	18.0	251.5	1.3
Jul-11	4.0	1.6	0.2	43.9	32.5	1.8	22.5	90.8	1.7
Jul-12	3.8	1.6	0.2	42.6	31.1	1.8	22.2	86.3	0.9