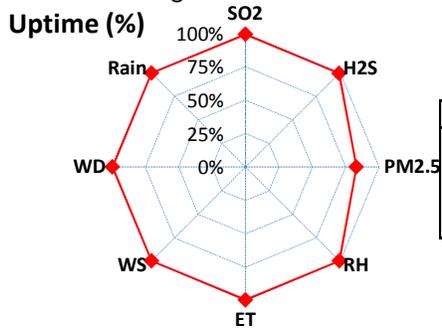
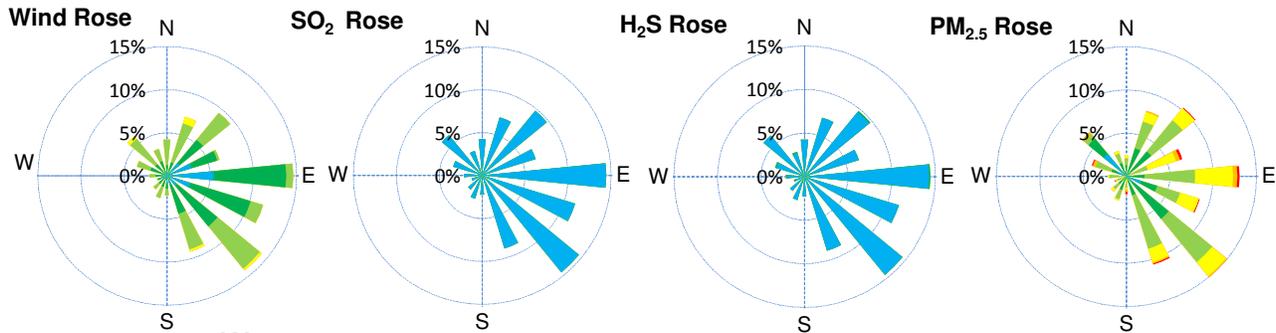
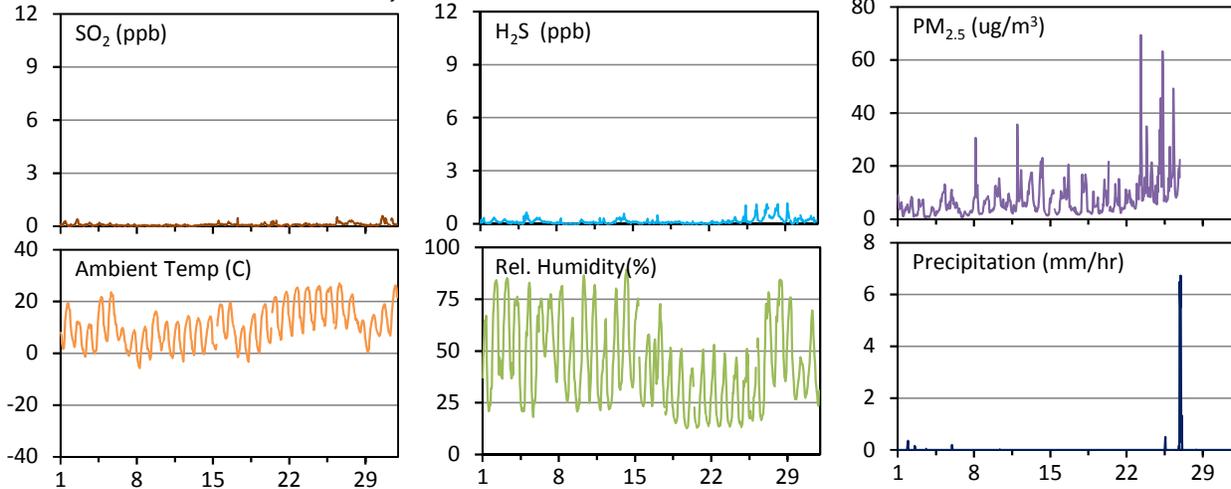


# WYAMZ Kindersley Station - May 2015 Summary Report

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 <sub>2</sub>	ppb	0.1	99.3%	0.2	May-30	57	0	0.6	May-30 13:00	172	0
H <sub>2</sub> S	ppb	0.1	99.3%	0.5	May-27	3.6	0	1.2	May-29 04:00	10.8	0
PM <sub>2.5</sub>	ug/m <sup>3</sup>	7	83.1%	19	May-25	30	0	69	May-23 07:00	-	-

*SAAQS: Saskatchewan Ambient Air Quality Standards*



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 <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172
H <sub>2</sub> S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8
PM <sub>2.5</sub>	ug/m <sup>3</sup>	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30

## Monthly Update

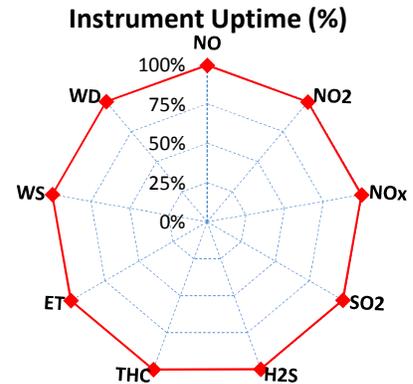
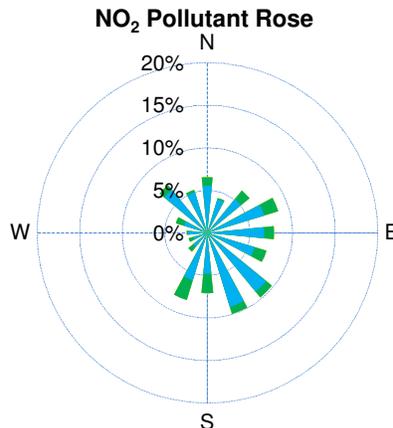
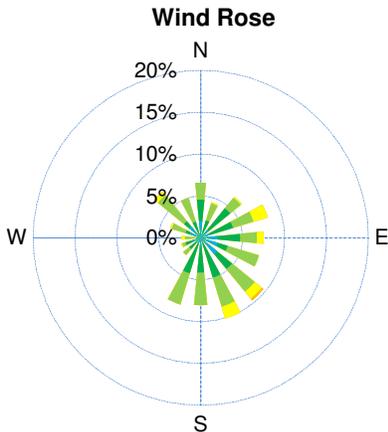
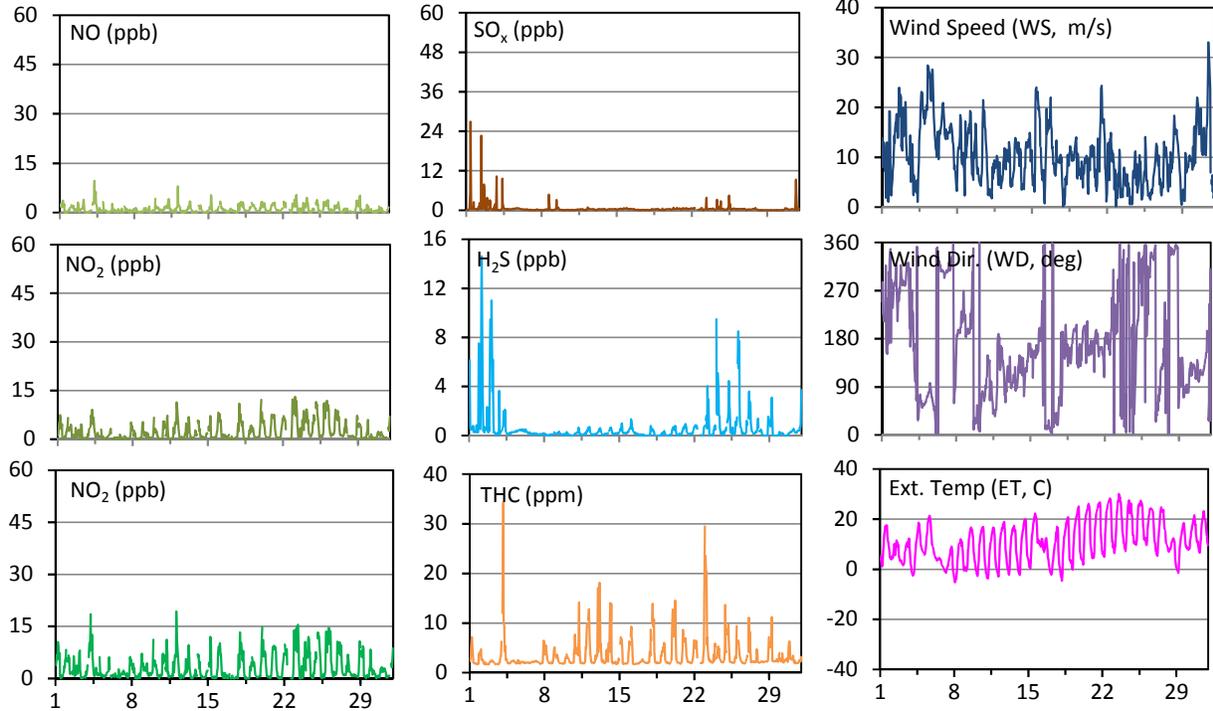
- \*All data has been slope, intercept, and baseline corrected. Data may change after validation process.
- \*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- \*All compliance parameters are above 90% operational, with the exception of the PM<sub>2.5</sub> analyzer. It was not operational May 26 at 22:00 for the remainder of the month. The analyzer was malfunctioning following a power disruption.
- \*There are 5 hours of data for all parameters flagged as "power failure" intermittently throughout the month due to power disruptions.



# Lloydminster East Station - May 2015 Summary Report

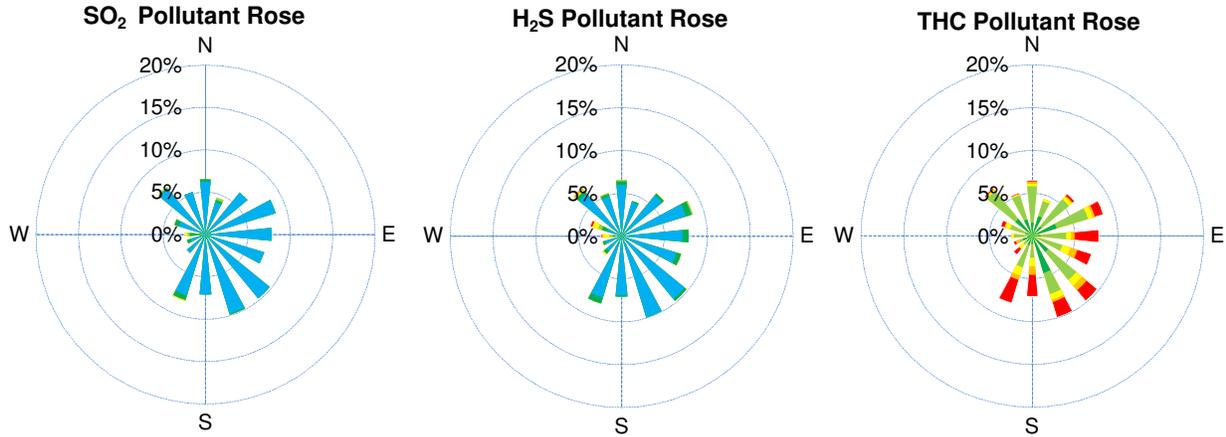
Pollutants		Month Records		24-Hour Records				1-Hour Records			
				Maximum		SAAQS Standards	Exceed Days	Maximum		SAAQS Standards	Exceed Hours
				Conc.	Time			Conc.	Time		
Name	Conc. Unit	Avg. Conc.	Uptime								
NO	ppb	1.0	99.6%	2.1	May-4	-	-	9.7	May-04 06:00	-	-
NO <sub>2</sub>	ppb	2.3	99.6%	5.2	May-23	-	-	13.1	May-23 04:00	212	0
NO <sub>x</sub>	ppb	3.0	99.6%	5.7	May-26	-	-	19.3	May-12 03:00	-	-
SO <sub>2</sub>	ppb	0.5	99.6%	2.6	May-2	57	0	26.9	May-01 10:00	172	0
H <sub>2</sub> S	ppb	0.6	99.6%	3	May-2	3.6	0	14.6	May-02 05:00	10.8	3
THC	ppm	3.5	99.9%	6.0	May-4	-	-	34.3	May-04 04:00	-	-

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 <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172
NO <sub>2</sub>	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212
H <sub>2</sub> 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 - May 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, with the exception of 3 one-hour H<sub>2</sub>S exceedance events on May 2 and 3. Please refer to the exceedance summary table for details.
- \*All compliance parameters are above 90% operational.
- \*There are 3 hours of data for SO<sub>2</sub>, H<sub>2</sub>S and NO/NO<sub>2</sub>/NO<sub>x</sub>, and 1 hour of data for all other parameters flagged as "power failure" at 16:00 MST on May 31 due to a power disruption. SO<sub>2</sub>, H<sub>2</sub>S and NO/NO<sub>2</sub>/NO<sub>x</sub> were slower to recover following the power disruption.

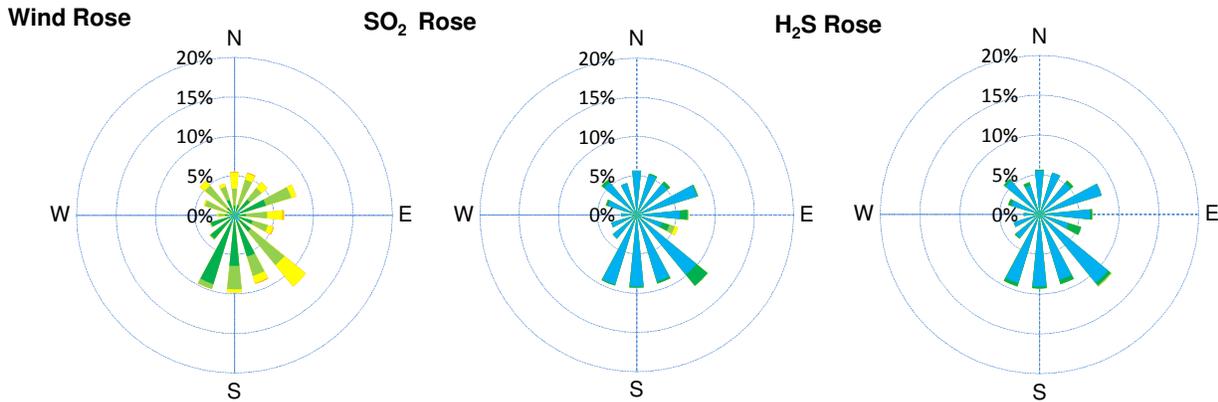
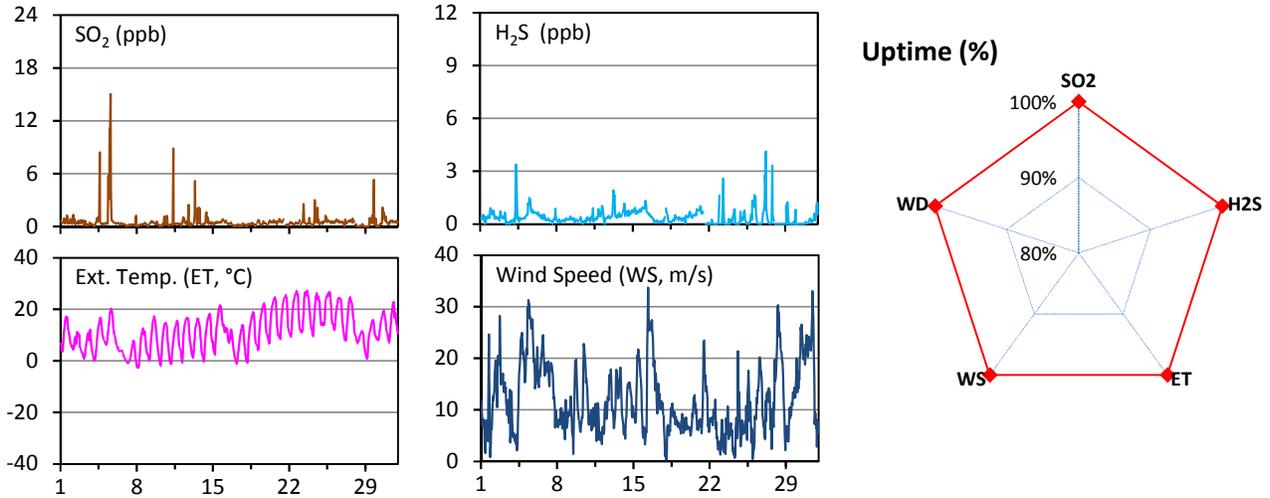
## Exceedance Summary

1-hour Exceedance Information			Summary of Other Parameters During Exceedance						
Pollutant	Conc. ppb	Exceedance Time mmm-dd hh:mm	WS km/hr	WD deg	ET C	SO <sub>2</sub> ppb	H <sub>2</sub> S ppb	NO <sub>2</sub> ppb	THC ppm
H <sub>2</sub> S	14.6	May-02 05:00	12.9	285	4.4	0	14.6	3.3	2.7
H <sub>2</sub> S	11.9	May-02 04:00	14.4	281	5.1	1	11.9	3.5	2.6
H <sub>2</sub> S	11.0	May-03 03:00	14.8	283	2.0	1	11.0	1.4	2.5

# Lloydminster West Station - May 2015 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		AAAQO / SAAQS	Exceed Days	Maximum		AAAQO / SAAQS	Exceed Hours
				Conc.	Time			Conc.	Time		
SO <sub>2</sub>	ppb	0.5	100.0%	2.7	May-5	48 / 57	0 / 0	15.1	May-05 15:00	172 / 172	0 / 0
H <sub>2</sub> S	ppb	0.4	100.0%	0.8	May-27	3.0 / 3.6	0 / 0	4.1	May-27 06:00	10.0 / 10.8	0 / 0

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 <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172
H <sub>2</sub> S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8

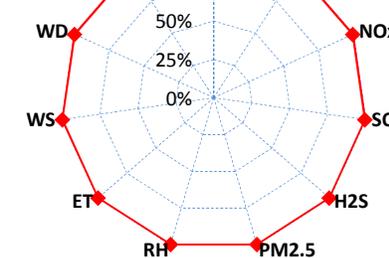
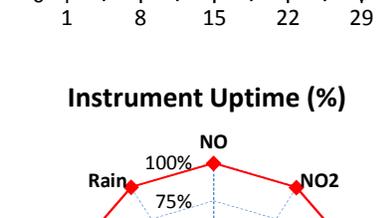
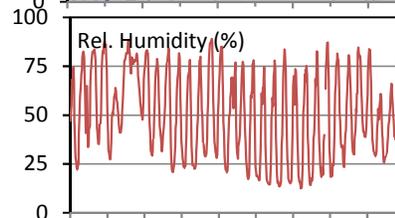
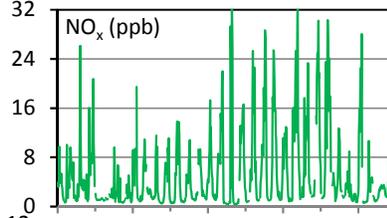
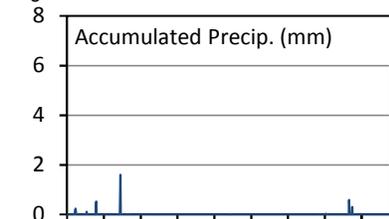
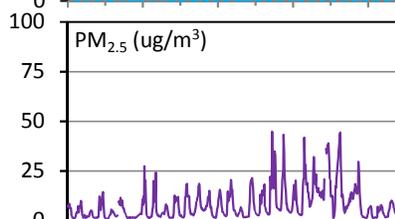
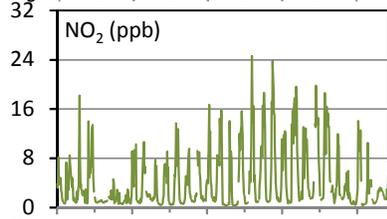
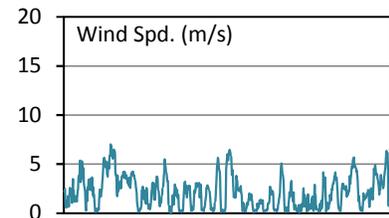
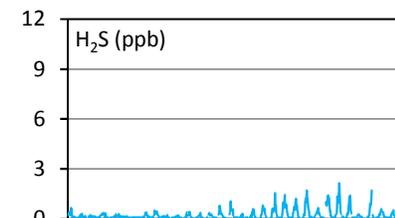
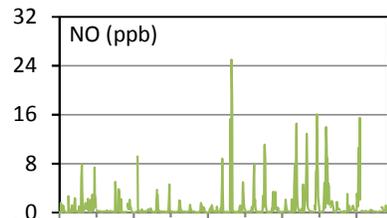
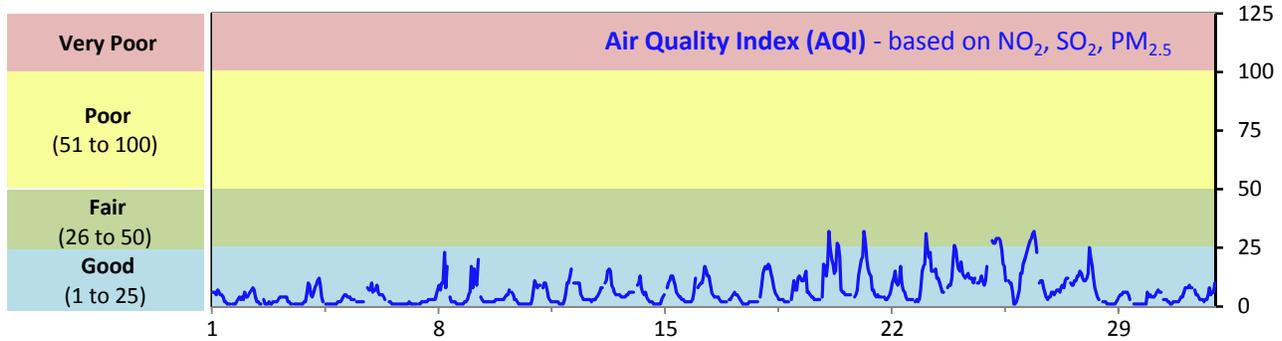
## Monthly Update

- \*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.
- \*All compliance parameters are above 90% operational, there are no operational issues to report.

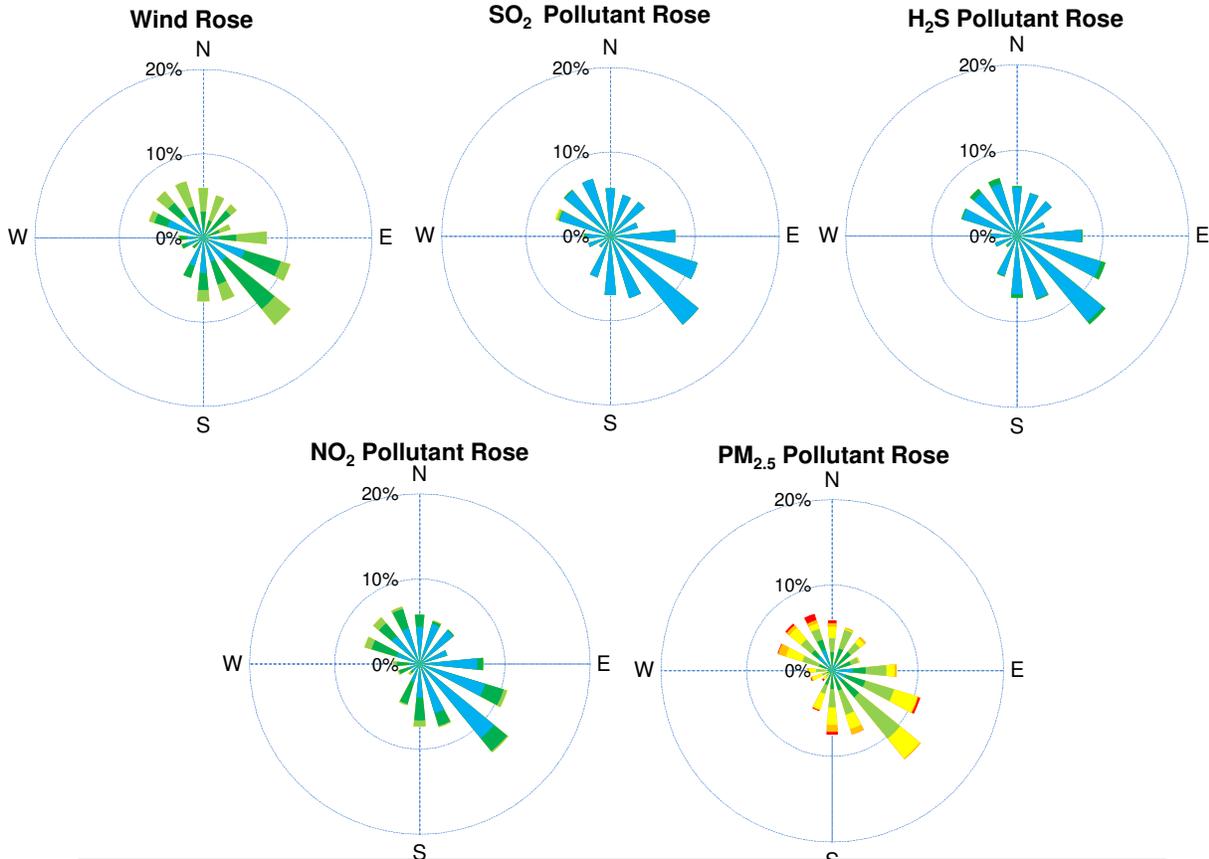
# WYAMZ Maidstone Station - May 2015 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS	Exceed Days	Maximum		SAAQS	Exceed Hours
				Conc.	Time	Objective		Conc.	Time	Objective	
NO	ppb	1.0	99.4%	3.1	May-17	-	-	25.0	May-17 05:00	-	-
NO <sub>2</sub>	ppb	4.2	99.4%	8.9	May-25	-	-	24.6	May-19 04:00	212	0
NO <sub>x</sub>	ppb	5.2	99.4%	11.7	May-25	-	-	34.1	May-17 05:00	-	-
SO <sub>2</sub>	ppb	0.2	99.4%	1.5	May-2	57	0	22.8	May-02 14:00	172	0
H <sub>2</sub> S	ppb	0.2	99.6%	0.5	May-26	3.6	0	2.1	May-26 07:00	10.8	0
PM <sub>2.5</sub>	ug/m3	8	99.6%	20	May-25	30	0	45	May-20 01:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



# WYAMZ Maidstone Station - May 2015 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 <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172	
NO <sub>2</sub>	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
H <sub>2</sub> S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8	
PM <sub>2.5</sub>	ug/m <sup>3</sup>	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30	

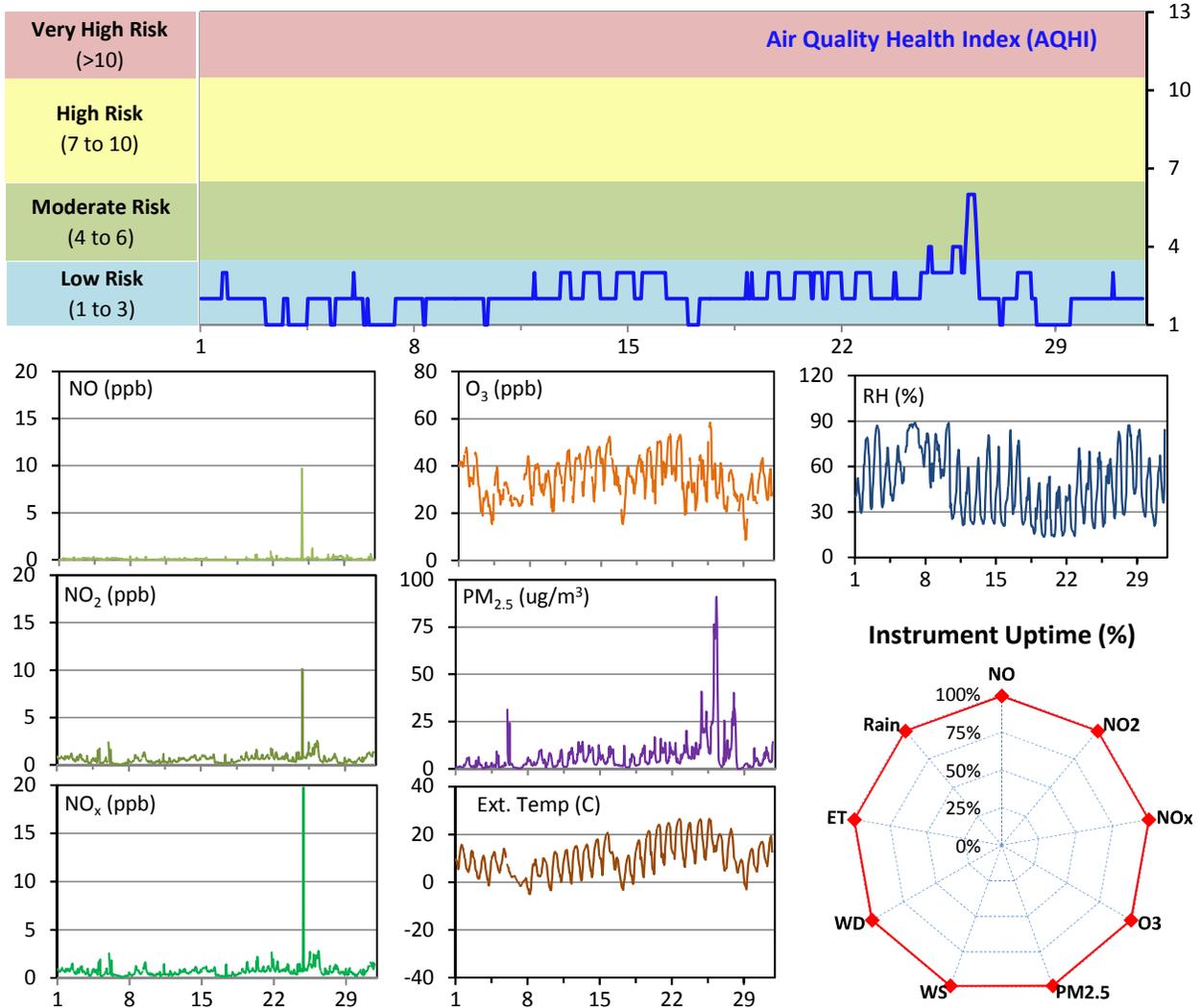
## Monthly Update

- \*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.
- \*All compliance parameters were greater than 90% operational this month.
- \*4 hours of NO/NO<sub>2</sub>/NO<sub>x</sub> and SO<sub>2</sub> data, and 3 hours for all other parameters is flagged as "power failure" intermittently throughout the month due to power disruptions.

# WYAMZ Meadow Lake Station - May 2015 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		
NO	ppb	0.1	99.0%	0.6	May-24	-	-	9.7	May-24 20:00	-	-
NO <sub>2</sub>	ppb	0.6	99.0%	1.2	May-26	-	-	10.1	May-24 20:00	212	0
NO <sub>x</sub>	ppb	0.7	99.0%	1.7	May-24	-	-	19.8	May-24 20:00	-	-
O <sub>3</sub>	ppb	35	99.0%	44	May-15	-	-	58	May-25 16:00	82	0
PM <sub>2.5</sub>	ug/m3	7	99.0%	33	May-26	30	1	91	May-26 07:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

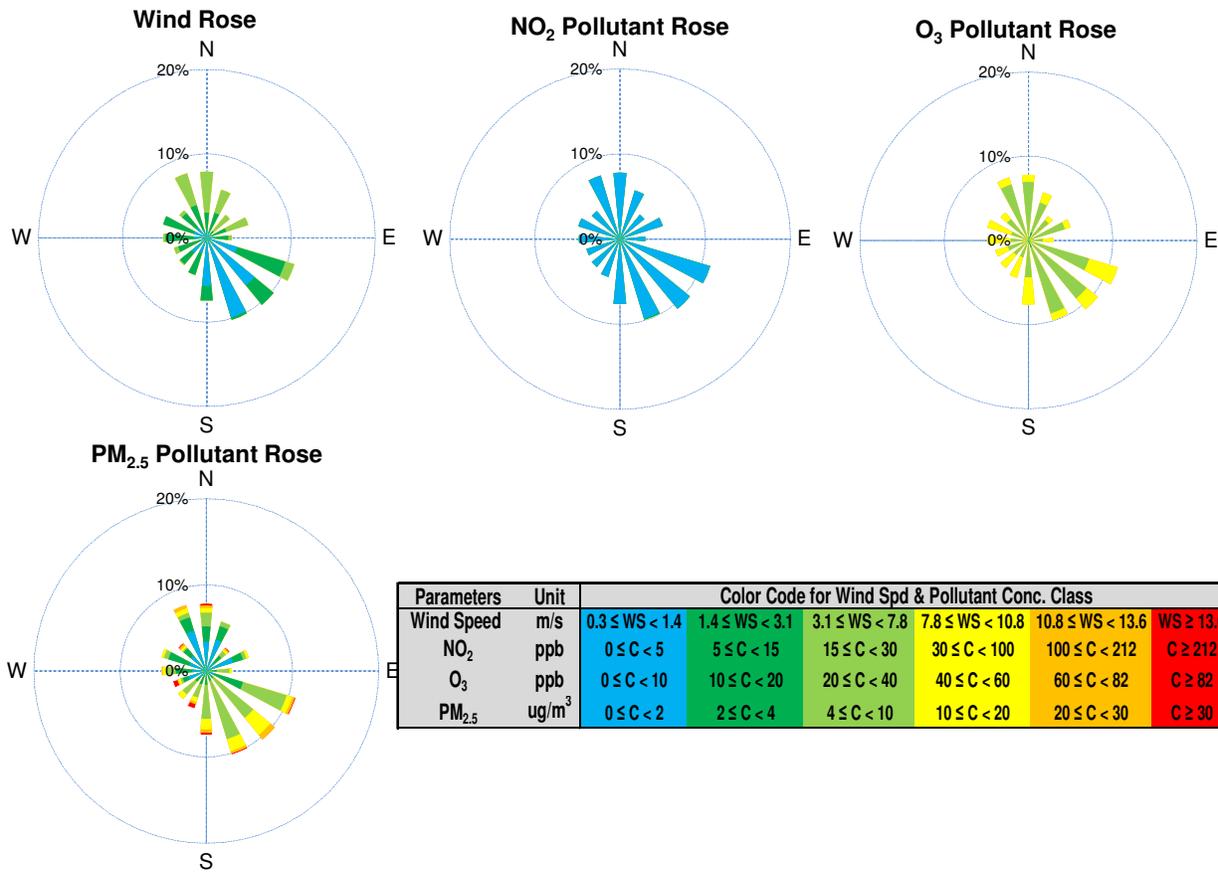


## Monthly Update

- \*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 one 24-hour PM<sub>2.5</sub> exceedance event. Please refer to the exceedance summary table for details.
- \*All compliance parameters were greater than 90% operational.
- \*There are 7 hours of data for all parameters flagged as "power failure" intermittently throughout the month due to power disruptions.



# WYAMZ Meadow Lake Station - May 2015 Summary Report



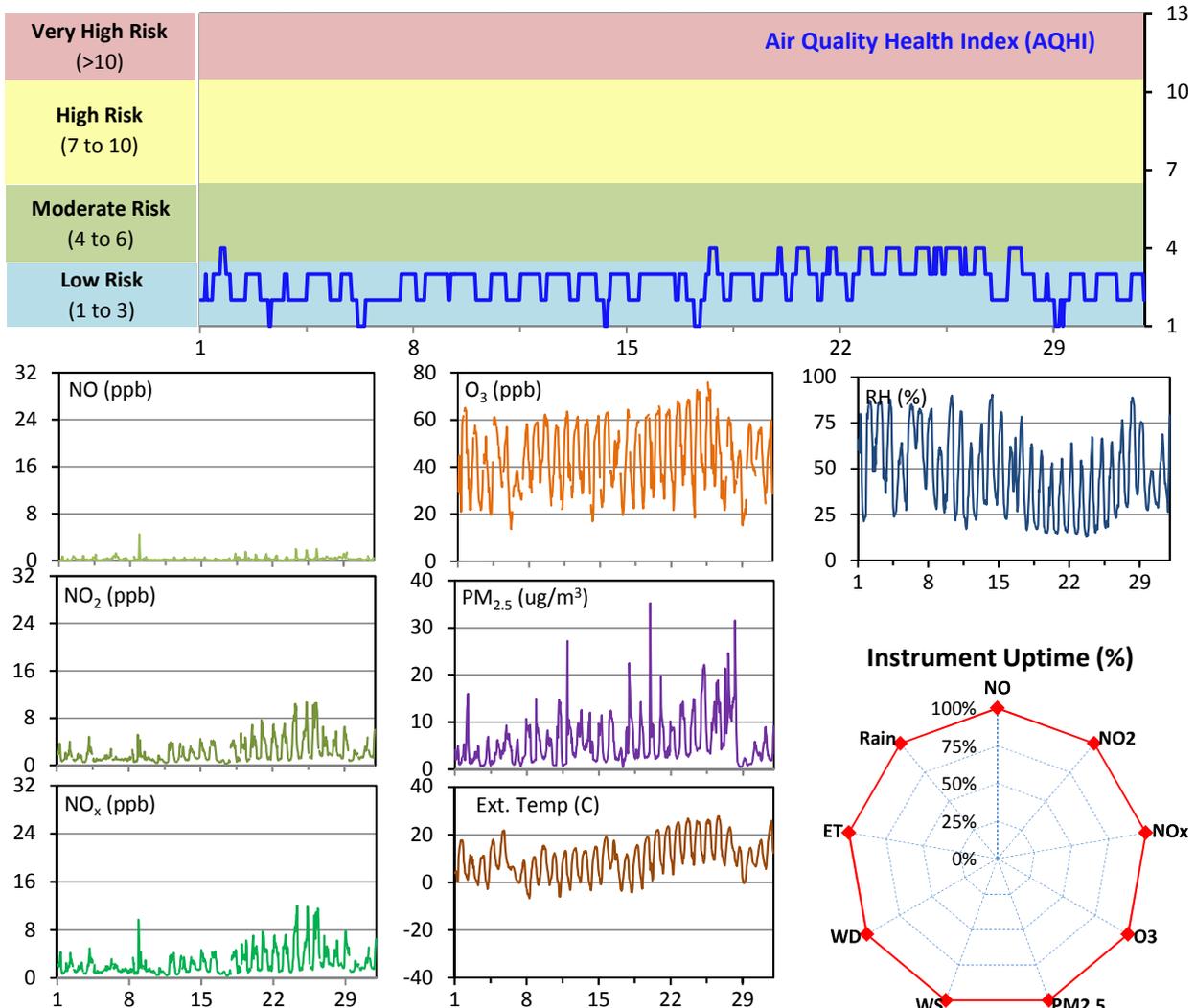
Exceedance Summary (24-Hour Average)												
Pollutant	Conc. ppb	Exceedance Date mmm-dd	WS m/s	WD deg	AQHI -	Rain mm	NO ppb	NO2 ppb	NOx ppb	O3 ppb	PM2.5 ug/m3	
PM2.5	33	May-26	2.7	262	4	0.0	0	1	1	34	33	



# WYAMZ Unity Station - May 2015 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		
NO	ppb	0.3	100.0%	0.5	May-6	-	-	4.5	May-08 21:00	-	-
NO <sub>2</sub>	ppb	2.3	100.0%	5.3	May-26	-	-	10.7	May-25 07:00	212	0
NO <sub>x</sub>	ppb	2.5	100.0%	5.8	May-26	-	-	12.0	May-24 07:00	-	-
O <sub>3</sub>	ppb	44	100.0%	53	May-23	-	-	76	May-25 14:00	82	0
PM <sub>2.5</sub>	ug/m3	6	100.0%	12	May-27	30	0	35	May-19 23:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

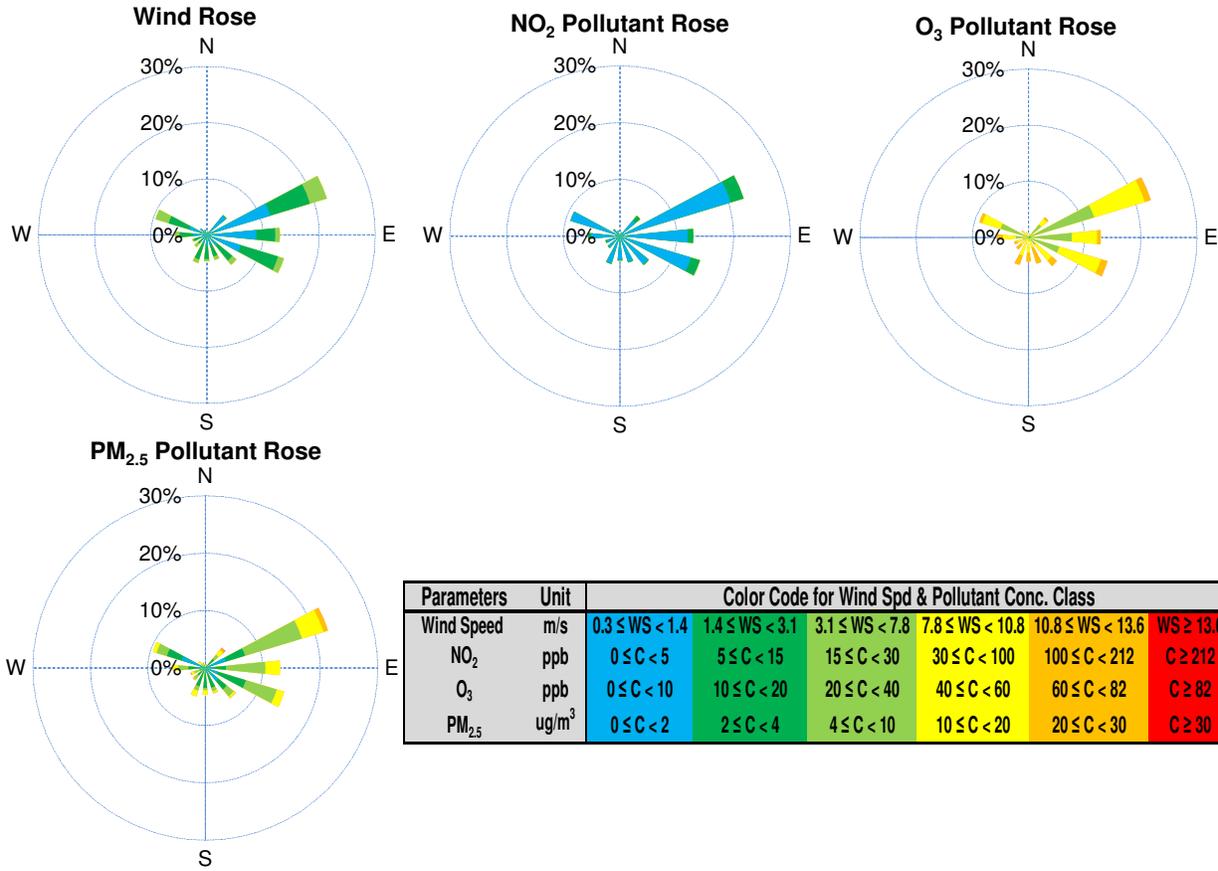


## Monthly Update

- \*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.
- \*All compliance parameters are greater than 90% operational, there are no operational issues to report.



# WYAMZ Unity Station - May 2015 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
NO <sub>2</sub>	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212
O <sub>3</sub>	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82
PM <sub>2.5</sub>	ug/m <sup>3</sup>	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30