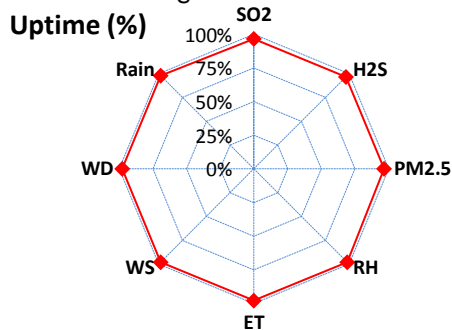
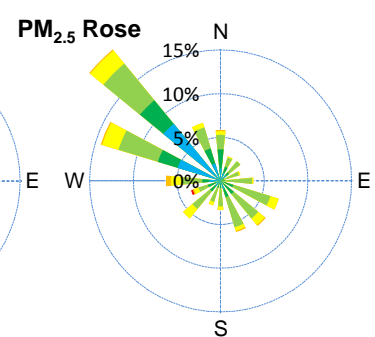
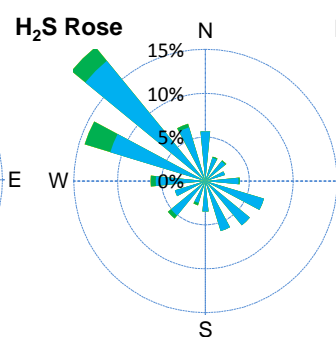
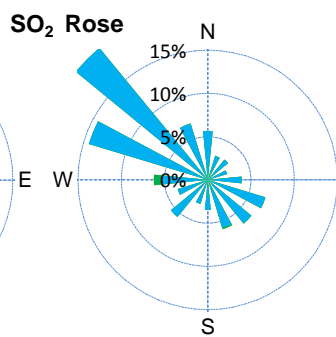
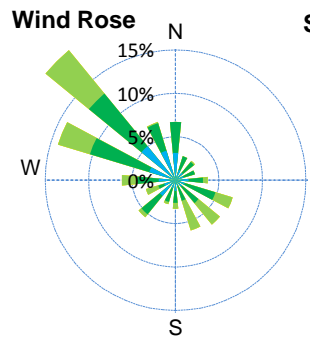
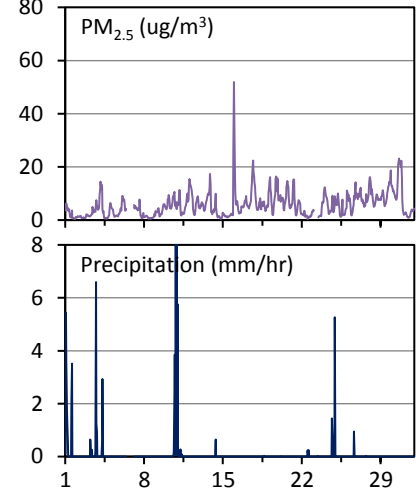
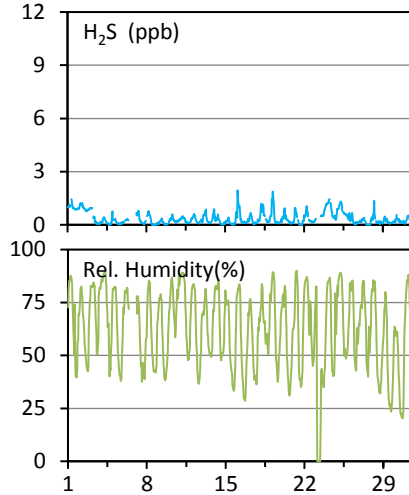
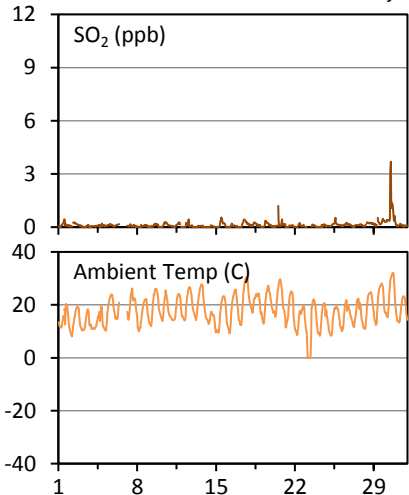


WYAMZ Kindersley Station - July 2018 Summary Report

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
SO ₂	ppb	0.1	96.5%	0.8	Jul-30	48	0	3.7	Jul-30 12:00	172	0
H ₂ S	ppb	0.4	96.5%	1.0	Jul-1	3.6	0	1.9	Jul-16 02:00	11	0
PM _{2.5}	ug/m3	6	96.6%	14	Jul-30	28	0	52	Jul-15 23:00	-	-

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 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}	ug/m ³	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.

*There are 25 hours of H₂S data and SO₂ data, 24 hours of PM 2.5, 17 hours of External Temperature and 16 hours of Wind Speed

Exceedance Summary (24-Hour Average)

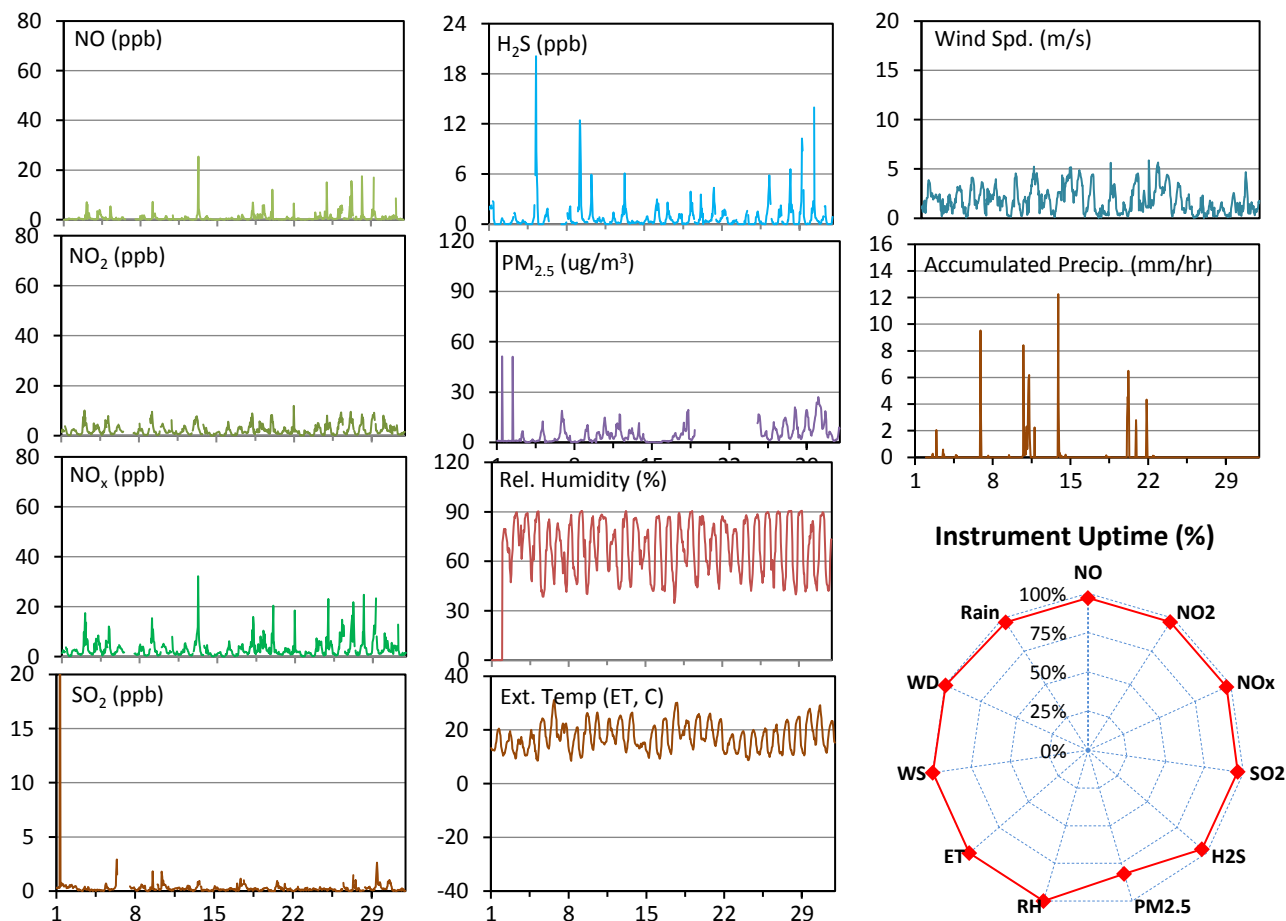
Exceedance Date	WS	WD	Rain	ET	SO ₂	H ₂ S	PM _{2.5}
mmm-dd	m/s	deg	mm	C	ppb	ppb	ug/m3



WYAMZ Maidstone Station - July 2018 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	0.9	97.1%	2.5	Jul-27	-	-	25.4	Jul-13 06:00	-	-
NO ₂	ppb	2.2	97.1%	3.7	Jul-26	106	0	11.9	Jul-21 23:00	159	0
NO _x	ppb	3.1	97.1%	5.8	Jul-27	-	-	32.2	Jul-13 06:00	-	-
SO ₂	ppb	0.3	96.4%	2.3	Jul-1	48	0	44.4	Jul-01 07:00	172	0
H ₂ S	ppb	0.8	96.1%	2.2	Jul-9	3.6	0	20.1	Jul-05 05:00	11	4
PM _{2.5}	ug/m3	5	81.9%	14	Jul-30	28	0	51	Jul-01 11:00	-	-

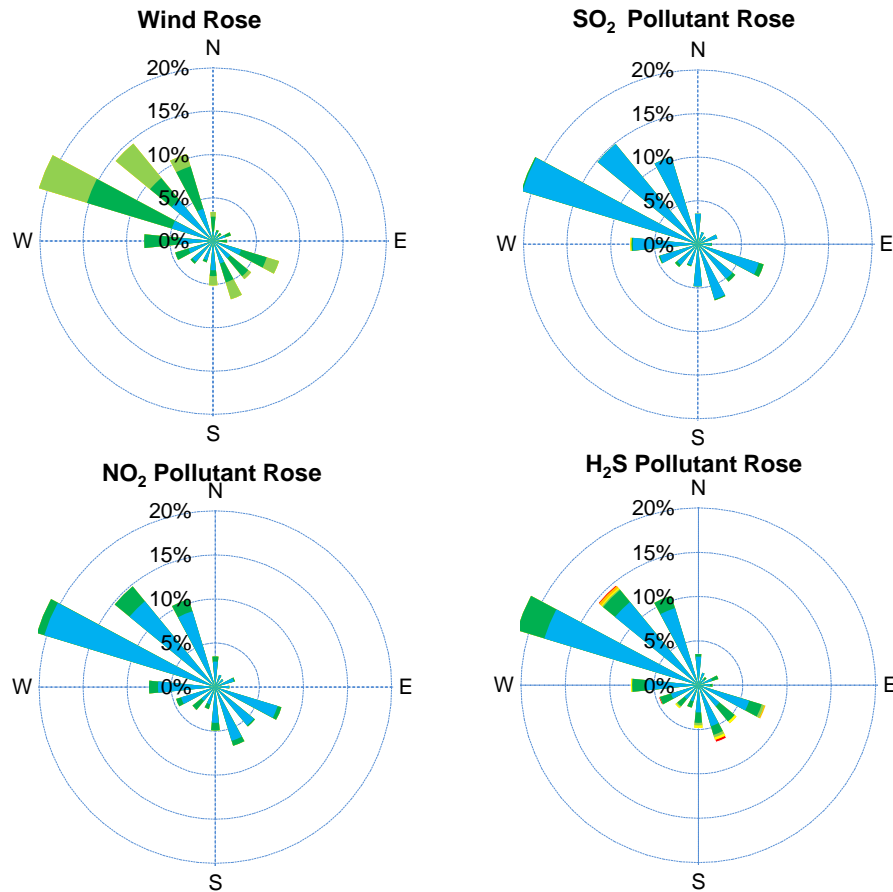
SAAQS: Saskatchewan Ambient Air Quality Standards



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 two 1-hour H₂S. Please refer to the exceedance summary table for details.
- * All compliance parameters were greater than 90% operational this month with the exception of PM_{2.5}, 135 hours of data has been flagged as "analyzer failure" due to instrument flatlining.
- * 26 hours of SO₂ and H₂S and 21 hours of NO/NO₂/NO_x data has been flagged as "power failure" on July 6 and 7 due to a power disruption.
- * 23 hours of precipitation data on July 1 has been flagged as "analyzer failure".

WYAMZ Maidstone Station - July 2018 Summary Report



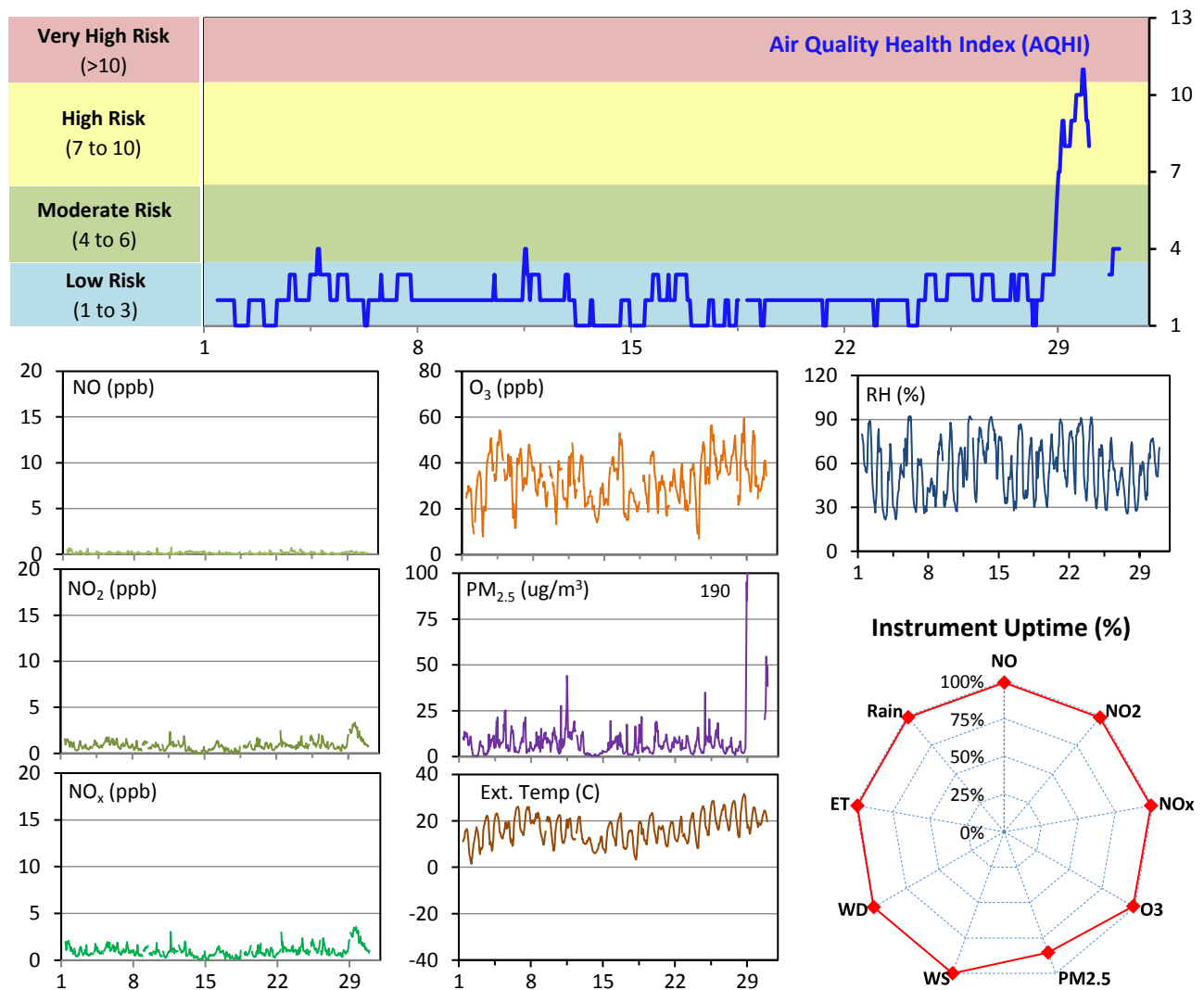
Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	m/s	0.3 ≤ WS < 1.4	1.4 ≤ WS < 3.1	3.1 ≤ WS < 7.8	7.8 ≤ WS < 10.8	10.8 ≤ WS < 13.6	WS ≥ 13.6
SO ₂	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ 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

Exceedance Summary											
1-hour Exceedance Information			Summary of Other Parameters During Exceedance								
Pollutant	Conc. ppb	Exceedance Time mmm-dd hh:mm	WS m/s	WD deg	AQI -	Rain mm	ET C	SO ₂ ppb	NO ₂ ppb	H ₂ S ppb	PM _{2.5} ug/m3
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
24-hour Exceedance Information			WS	WD	AQI	Rain	ET	SO ₂	NO ₂	H ₂ S	PM _{2.5}
-	-	-	-	-	-	-	-	-	-	-	-

WYAMZ Meadow Lake Station - July 2018 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	98.9%	2.0	Jul-1	-	-	0.7	Jul-11 15:00	-	-
NO ₂	ppb	0.9	98.9%	0.2	Jul-6	106	0	3.4	Jul-29 15:00	159	0
NO _x	ppb	1.0	98.9%	2.6	Jul-1	-	-	3.6	Jul-29 15:00	-	-
O ₃	ppb	33	98.9%	41	Jul-29	-	-	59	Jul-28 17:00	82	0
PM _{2.5}	ug/m3	12	85.3%	18	Jul-30	28	0	190	Jul-29 19:00	-	-

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.

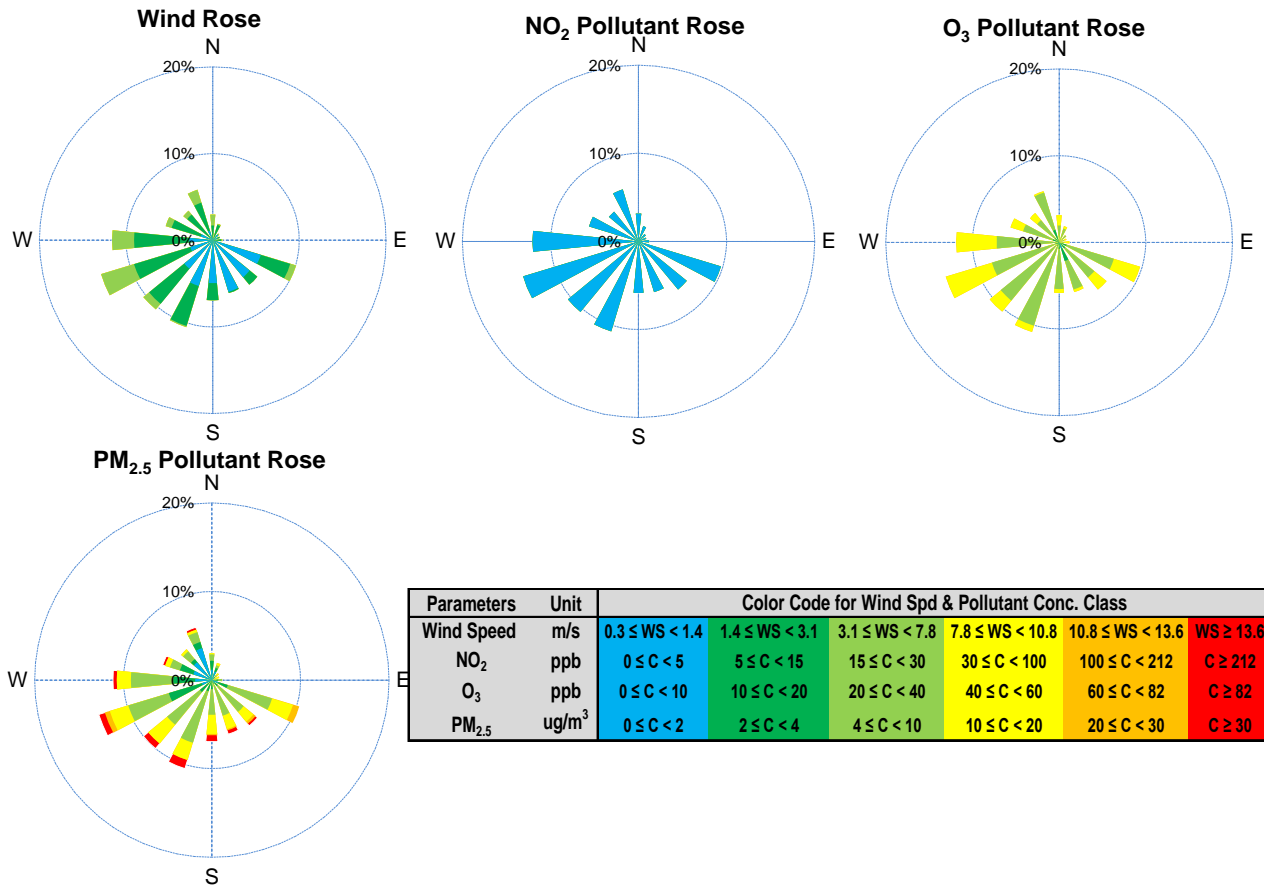
exceedance event. Please refer to the exceedance summary table for details.

*All compliance parameters were greater than 90% operational with the exception of PM 2.5.

*There are 8 hours of data for all parameters flagged as "analyzer failure" on July 7 intermittently throughout the month due to power disruptions.

*There are 102 hours of PM_{2.5} data from July 21-25 flagged as "analyzer failure" due to power disruptions.

WYAMZ Meadow Lake Station - July 2018 Summary Report

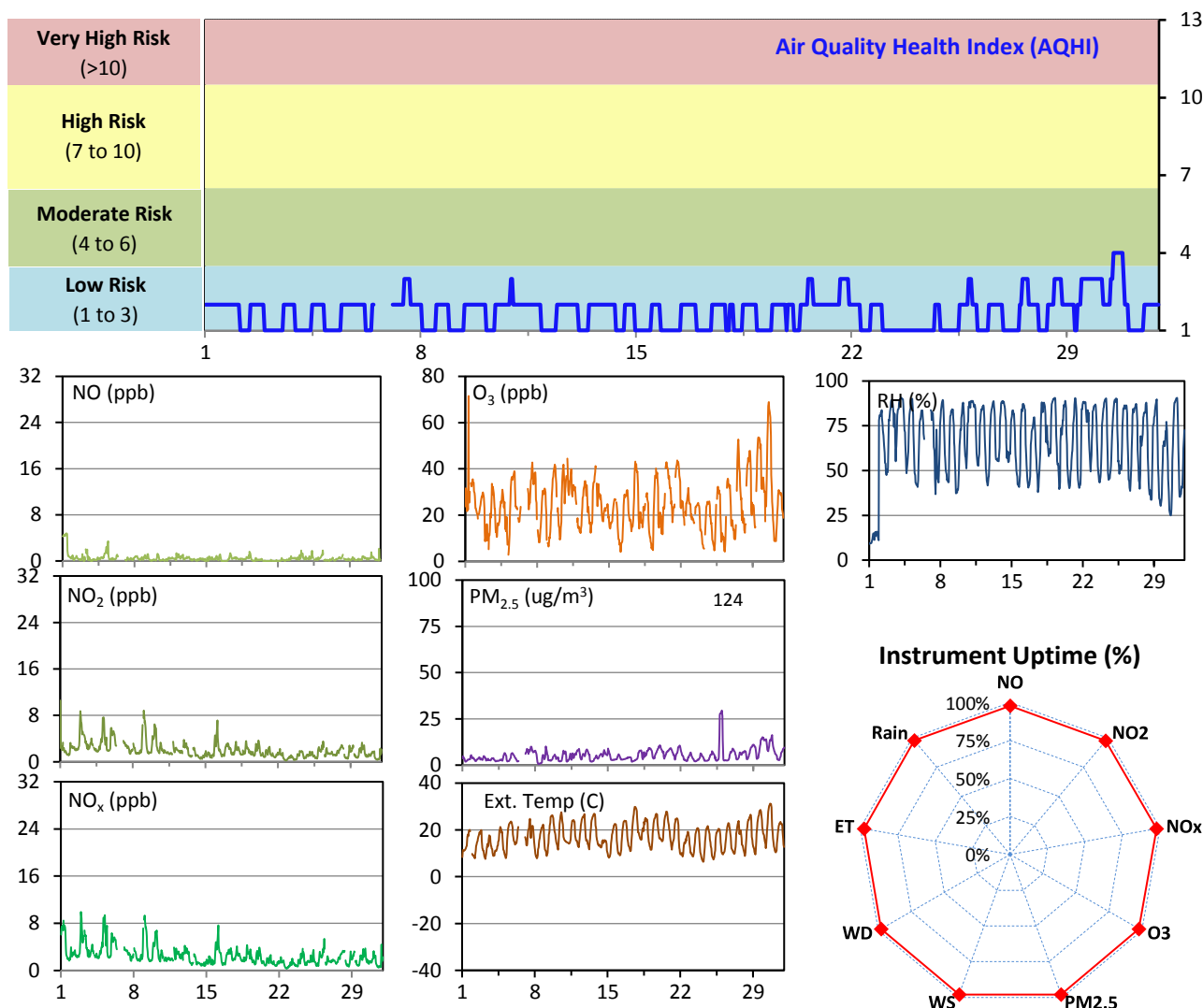


Exceedance Summary (24-Hour Average)											
Pollutant	Conc. ppb	Exceedance Date mmm-dd	WS m/s	WD deg	AQHI -	Rain mm	NO ppb	NO2 ppb	NOx ppb	O3 ppb	PM2.5 ug/m3
-	-	-	-	-	-	-	-	-	-	-	-

WYAMZ Unity Station - July 2018 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	0.5	97.8%	2.4	Jul-1	-	-	4.8	Jul-01 08:00	-	-
NO ₂	ppb	2.0	97.8%	3.9	Jul-5	106	0	10.6	Jul-01 00:00	159	0
NO _x	ppb	2.5	97.8%	4.9	Jul-5	-	-	9.9	Jul-02 22:00	-	-
O ₃	ppb	25	97.8%	42	Jul-30	-	-	72	Jul-01 07:00	82	0
PM _{2.5}	ug/m3	5	98.0%	12	Jul-30	28	0	30	Jul-25 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.

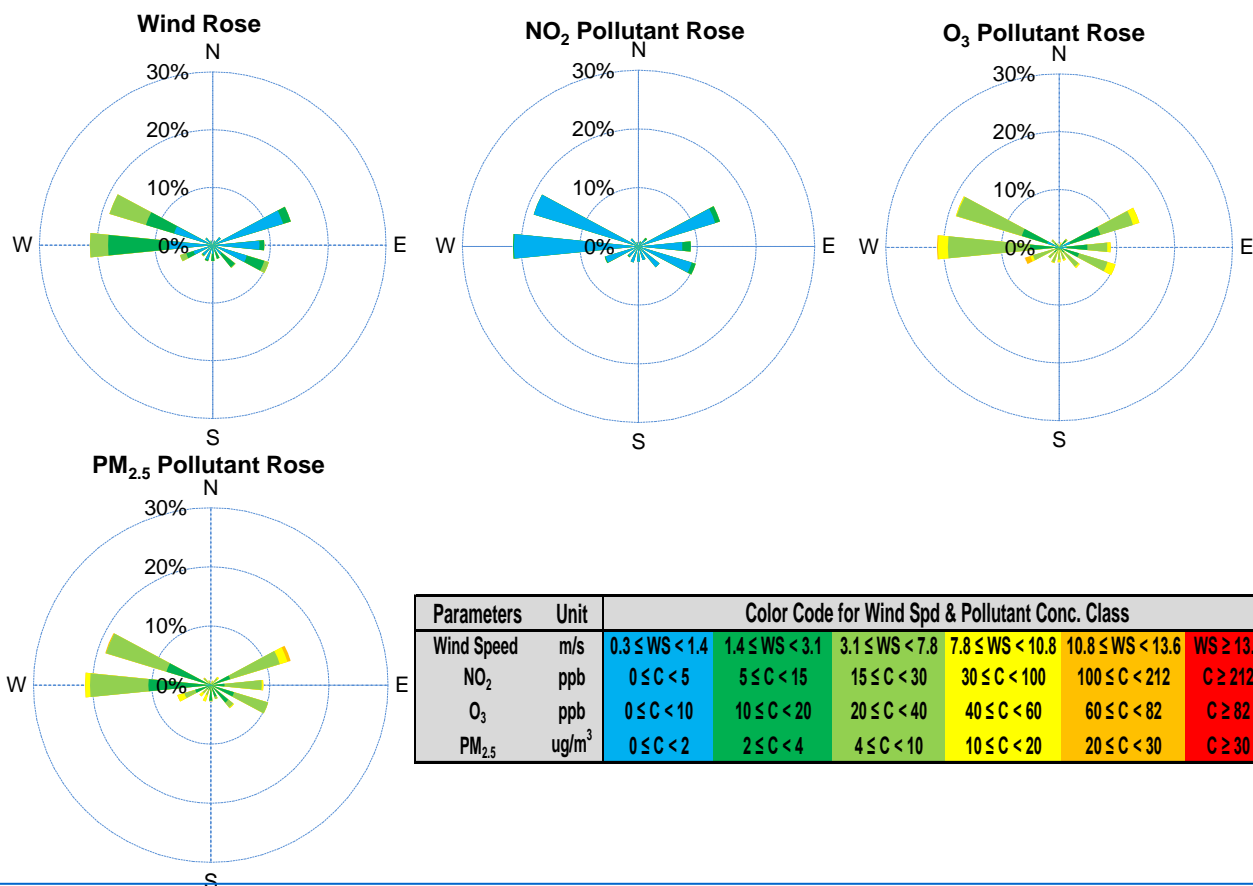
*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.

exceedance event attributed to wildfire smoke in the region. Please refer to the exceedance summary table for details.

*All compliance parameters are greater than 90% operational.

*16 hours of pollutant data is flagged as "analyzer failure" on July 6 and 7. 19 hours of ET data flagged as "analyzer failure" on July 1 and July 6, 7.

WYAMZ Unity Station - July 2018 Summary Report



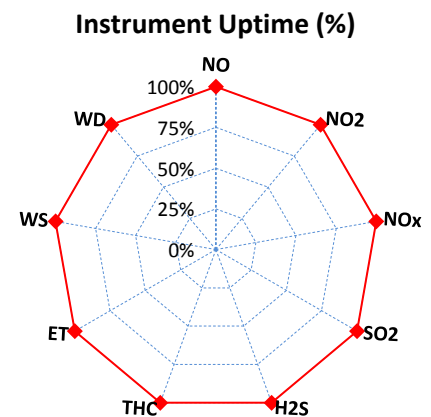
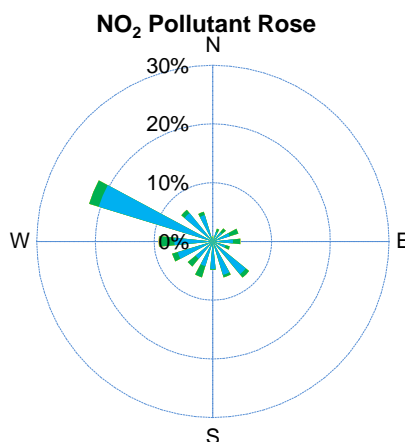
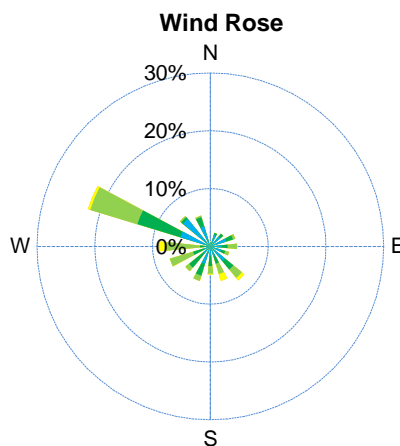
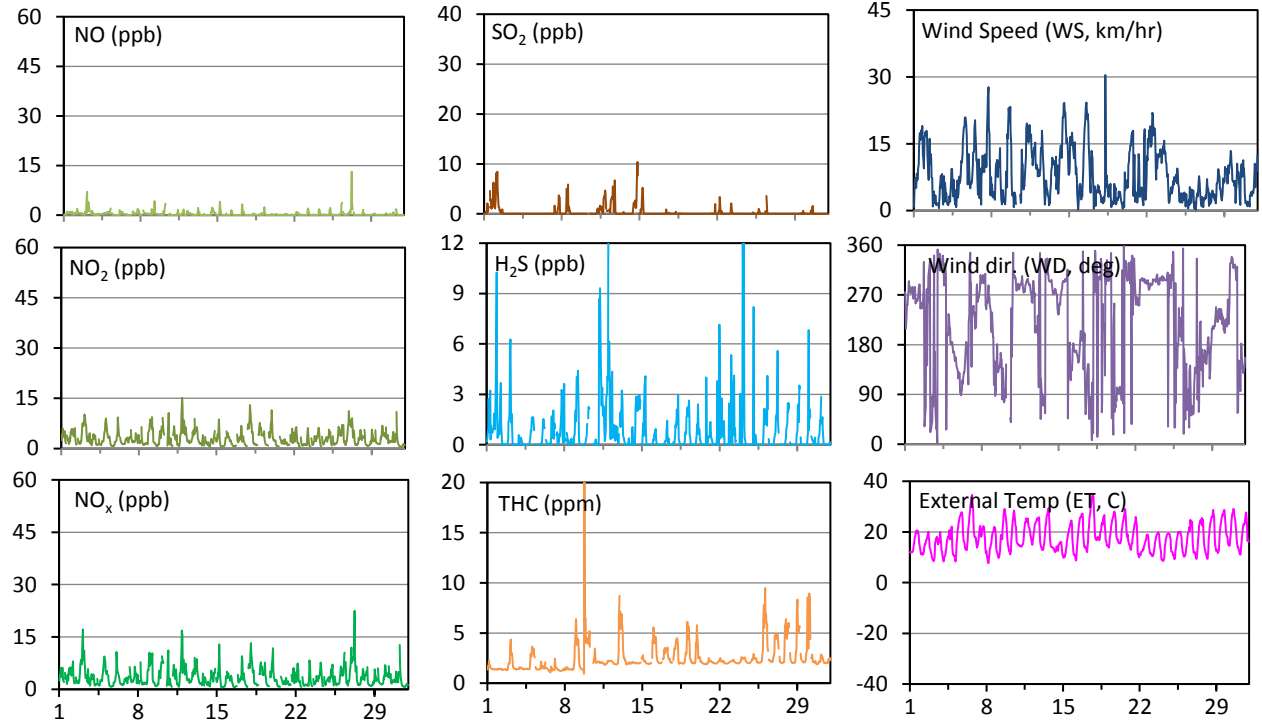
Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	m/s	0.3 ≤ WS < 1.4	1.4 ≤ WS < 3.1	3.1 ≤ WS < 7.8	7.8 ≤ WS < 10.8	10.8 ≤ WS < 13.6	WS ≥ 13.6
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212
O ₃	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82
PM _{2.5}	ug/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30

Exceedance Summary											
Pollutant	Conc.	Exceedance Date mmm-dd	WS m/s	WD deg	AQHI -	Rain mm	NO ppb	NO2 ppb	NOx ppb	O3 ppb	PM2.5 ug/m3
-	-	-	-	-	-	-	-	-	-	-	-

Husky Oil Operations Limited East Station - July 2018 Summary Report

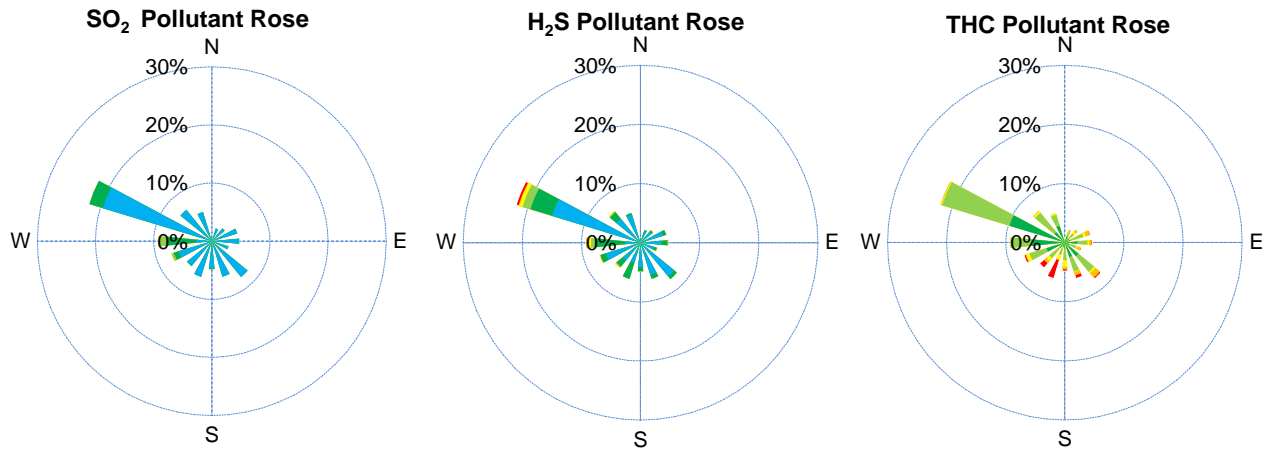
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standards	Exceed Days	Maximum		SAAQS Standards	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.4	100.0%	1.3	Jul-3	-	-	13.1	Jul-27 06:00	-	-
NO ₂	ppb	3.0	100.0%	4.7	Jul-26	106	0	15.1	Jul-11 22:00	159	0
NO _x	ppb	3.5	100.0%	5.4	Jul-3	-	-	22.5	Jul-27 06:00	-	-
SO ₂	ppb	0.0	100.0%	2.0	Jul-12	48	0	10.4	Jul-14 20:00	172	0
H ₂ S	ppb	1.0	100.0%	4.0	Jul-11	3.6	0	14.2	Jul-24 03:00	11.0	3
THC	ppm	2.5	100.0%	4.0	Jul-9	-	-	25.6	Jul-09 19:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	km/hr	$1 \leq WS < 5$	$5 \leq WS < 10$	$10 \leq WS < 20$	$20 \leq WS < 30$	$30 \leq WS < 40$	$WS \geq 40$
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	$0 \leq C < 1$	$1 \leq C < 3.6$	$3.6 \leq C < 5$	$5 \leq C < 8$	$8 \leq C < 11$	$C \geq 11$
THC	ppm	$0 \leq C < 1$	$1 \leq C < 2$	$2 \leq C < 3$	$3 \leq C < 4$	$4 \leq C < 5$	$C \geq 5$

Husky Oil Operations Limited East Station - July 2018 Summary Report



Monthly Update

*Air monitoring data has been validated. Data may change after validation process.

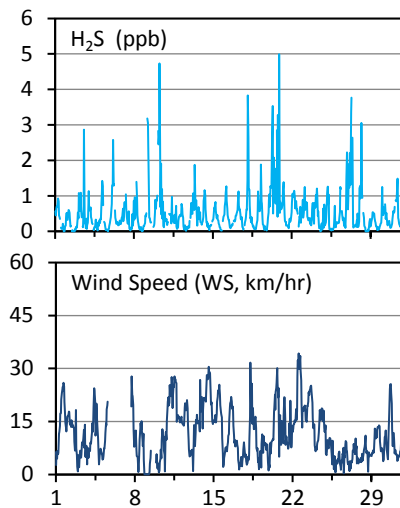
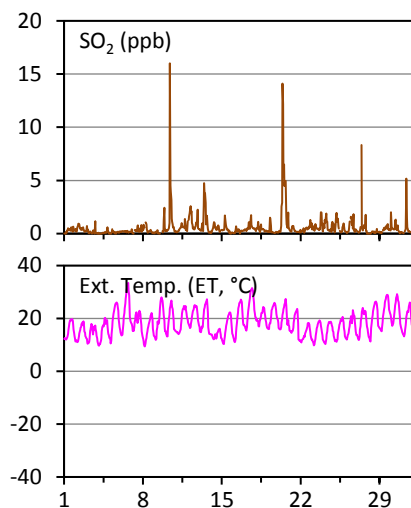
*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.

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

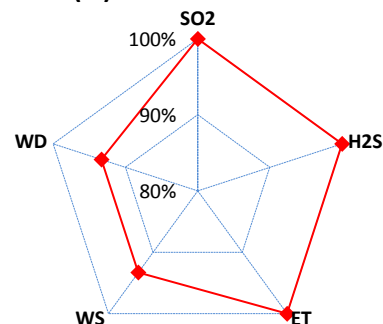
Husky Oil Operations Limited West Station - July 2018 Summary Report

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 ₂	ppb	1.0	100.0%	2.9	Jul-20	48 / 48	0 / 0	16.0	Jul-10 10:00	172 / 172	0 / 0
H ₂ S	ppb	1.0	100.0%	2.0	Jul-20	3 / 3.6	0 / 0	5.0	Jul-20 22:00	10 / 11.0	0 / 0

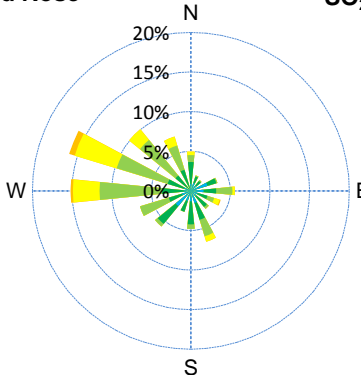
AAAQO: Alberta Ambient Air Quality Objectives; SAAQS: Saskatchewan Ambient Air Quality Standards.



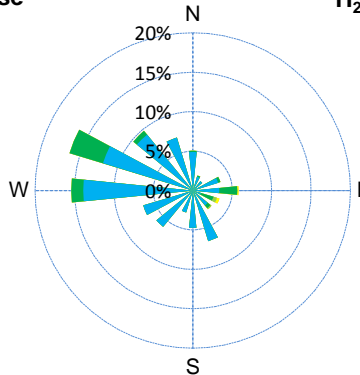
Uptime (%)



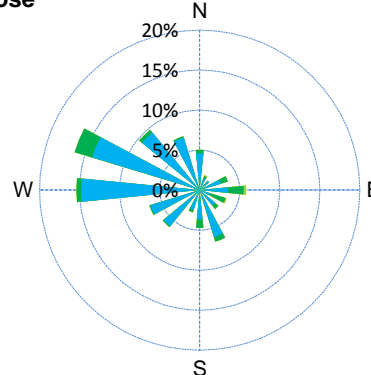
Wind Rose



SO₂ Rose



H₂S Rose



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 < 11	C ≥ 11

Monthly Update

*Air monitoring data has been validated. 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.