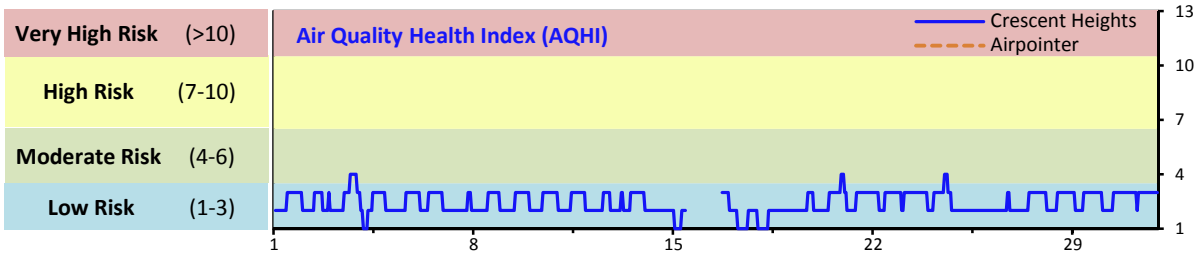
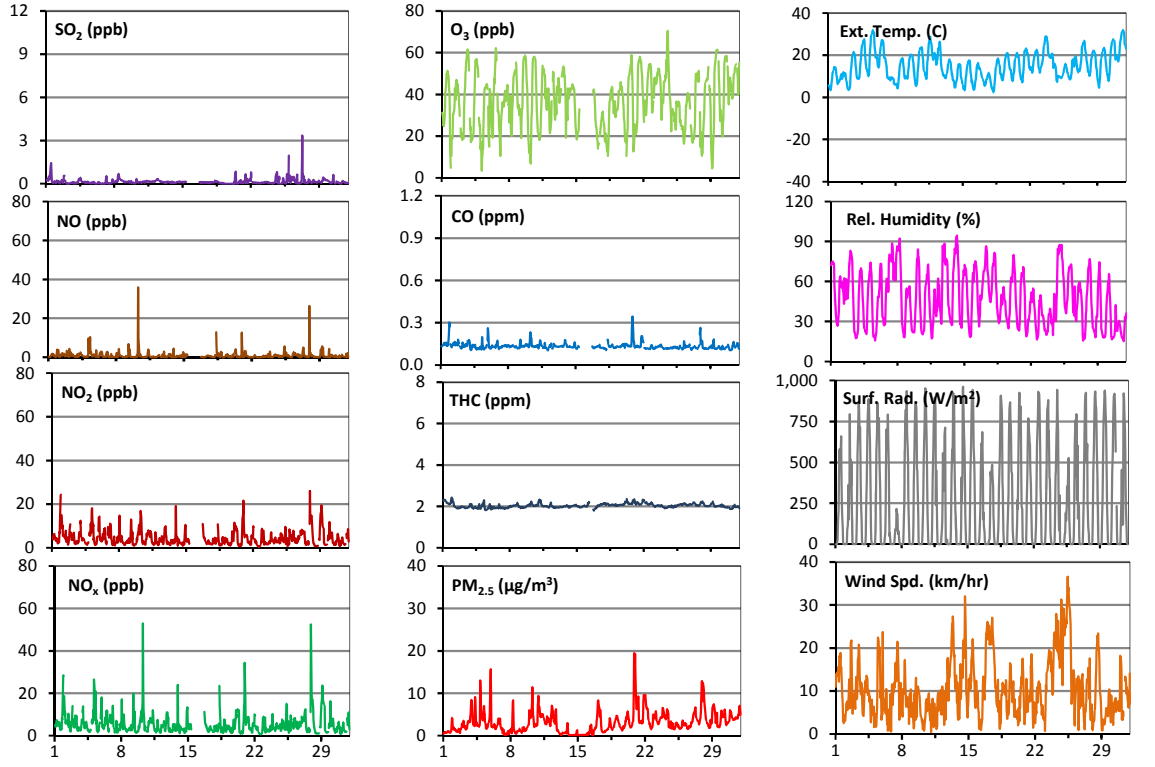
Palliser Airshed Society - May 2017 Summary Report

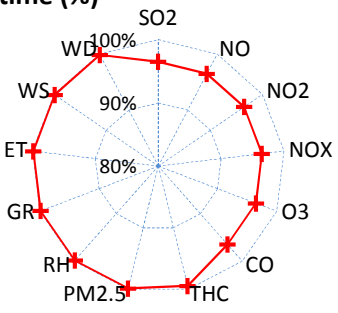
Continuous Sampling Results - Crescent Heights Station

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc Unit	Avg. Conc.	Uptime	Maximum Conc	Maximum Time	AAAQO Objective	Exceed No.	Maximum Conc	Maximum Time	AAAQO Objective	Exceed No.
SO_2	ppb	< 1	96.5%	< 1	May-27	48	0	3	May-27 7:00	172	0
NO	ppb	0.9	96.5%	2.6	May-10	-	-	35.9	May-10 7:00	-	-
NO_2	ppb	4.4	96.5%	7.2	May-5	-	-	26.2	May-27 23:00	159	0
NO_X	ppb	5.4	96.5%	9.5	May-5	-	-	53.0	May-10 7:00	-	-
O_3	ppb	37	96.5%	47	May-31	-	-	70	May-24 13:00	82	0
CO	ppm	0.1	96.5%	0.2	May-20	-	-	0.3	May-20 22:00	13	0
THC	ppm	2.0	99.5%	2.2	May-1	-	-	2.4	May-01 23:00	-	-
$PM_{2.5}$	µg/m³	3	99.9%	6	May-21	30	0	19	May-20 22:00	80	0

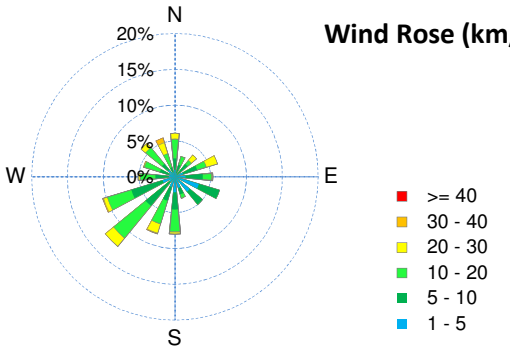




Instrument Uptime (%)



Wind Rose (km/hr)



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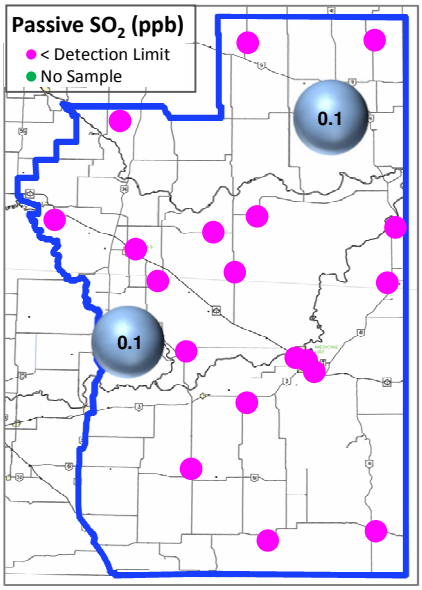
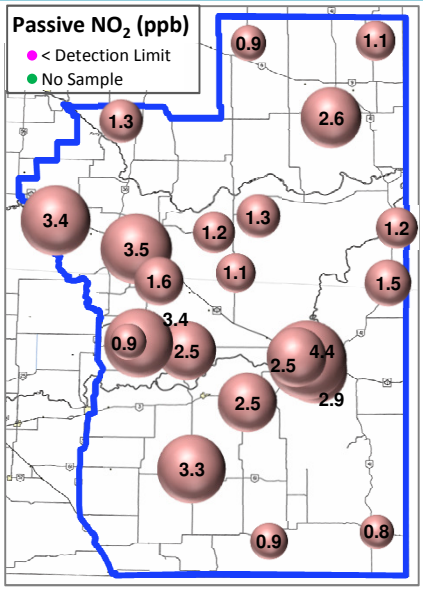
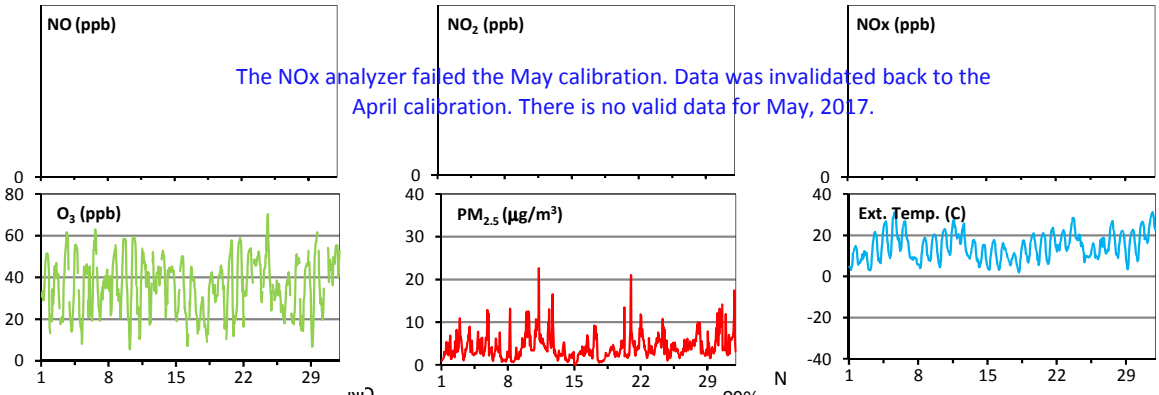
Passive Sampling Results

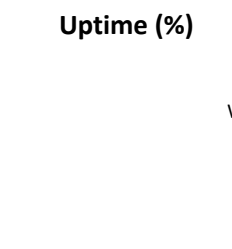


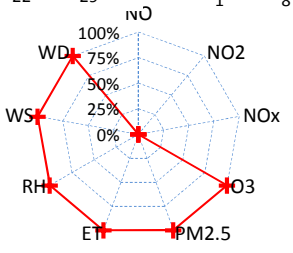


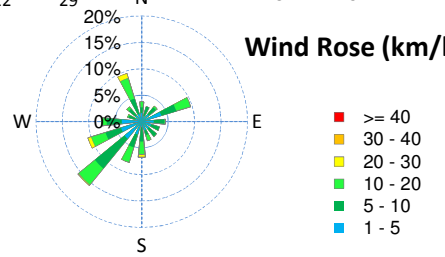
Continuous Sampling Results - Medicine Hat Airport Station

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc Unit	Avg. Conc.	Uptime	Maximum Conc	Maximum Time	AAAQO Objective	Exceed No.	Maximum Conc	Maximum Time	AAAQO Objective	Exceed No.
NO	ppb	-	0.0%	-	-	-	-	-	-	-	-
NO_2	ppb	-	0.0%	-	-	-	-	-	-	159	0
NOx	ppb	-	0.0%	-	-	-	-	-	-	-	-
O_3	ppb	36	100.0%	48	May-31	-	-	70	May-24 13:00	82	0
$PM_{2.5}$	ug/m3	4	99.9%	7	May-11	30	0	23	May-11 7:00	80	0









Monthly Update

*All data has been validated; data may change after validation process.

*The measured ambient concentrations of all parameters are within the AAAQO.

*All compliance parameters are >90% operational, with the exception of the NOx analyzer at the Medicine Hat Airport station. It failed to meet AMD calibration criteria during the May routine calibration, and the data was invalidated back to the last valid calibration. The analyzer was removed for repairs on May 30.

*Operational issues include a power disruption for CO, NOx, SO2 and O3 at the Crescent Heights station, due to power source issues.