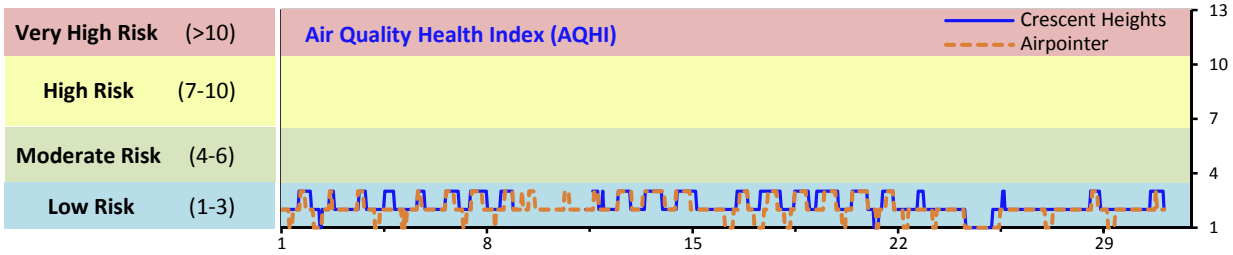
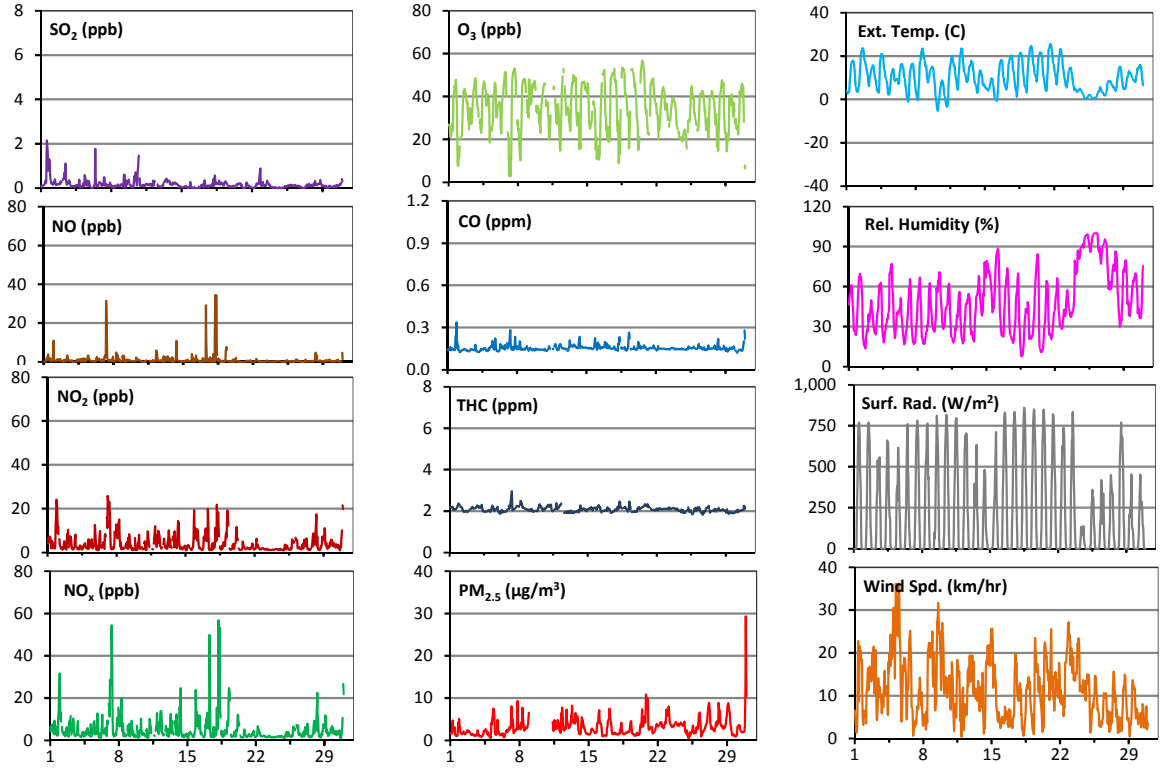
Palliser Airshed Society - April 2016 Summary Report

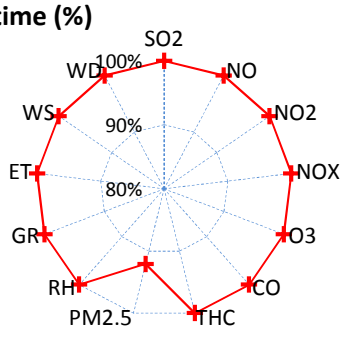
Continuous Sampling Results - Crescent Heights Station

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	100.0%	1	Apr-1	48	0	2	Apr-01 15:00	172	0
NO	ppb	1.0	100.0%	4.1	Apr-18	-	-	34.4	Apr-18 8:00	-	-
NO_2	ppb	4.1	100.0%	10.1	Apr-7	-	-	25.9	Apr-07 3:00	159	0
NO_X	ppb	5.2	100.0%	13.6	Apr-7	-	-	56.8	Apr-18 5:00	-	-
O_3	ppb	35	100.0%	40	Apr-9	-	-	57	Apr-20 15:00	82	0
CO	ppm	0.2	100.0%	0.2	Apr-7	-	-	0.3	Apr-01 22:00	13	0
THC	ppm	2.1	100.0%	2.3	Apr-7	-	-	3.0	Apr-07 8:00	-	-
$PM_{2.5}$	µg/m³	3	92.1%	5	Apr-30	30	0	29	Apr-30 22:00	-	-

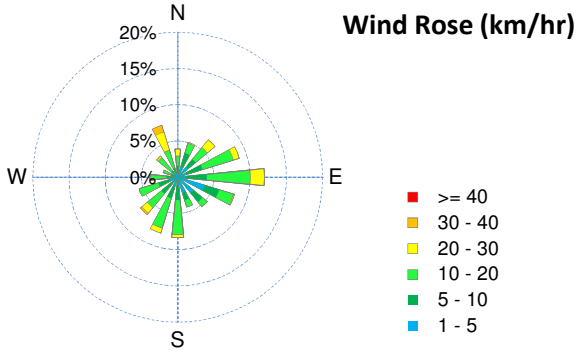




Instrument Uptime (%)



Wind Rose (km/hr)



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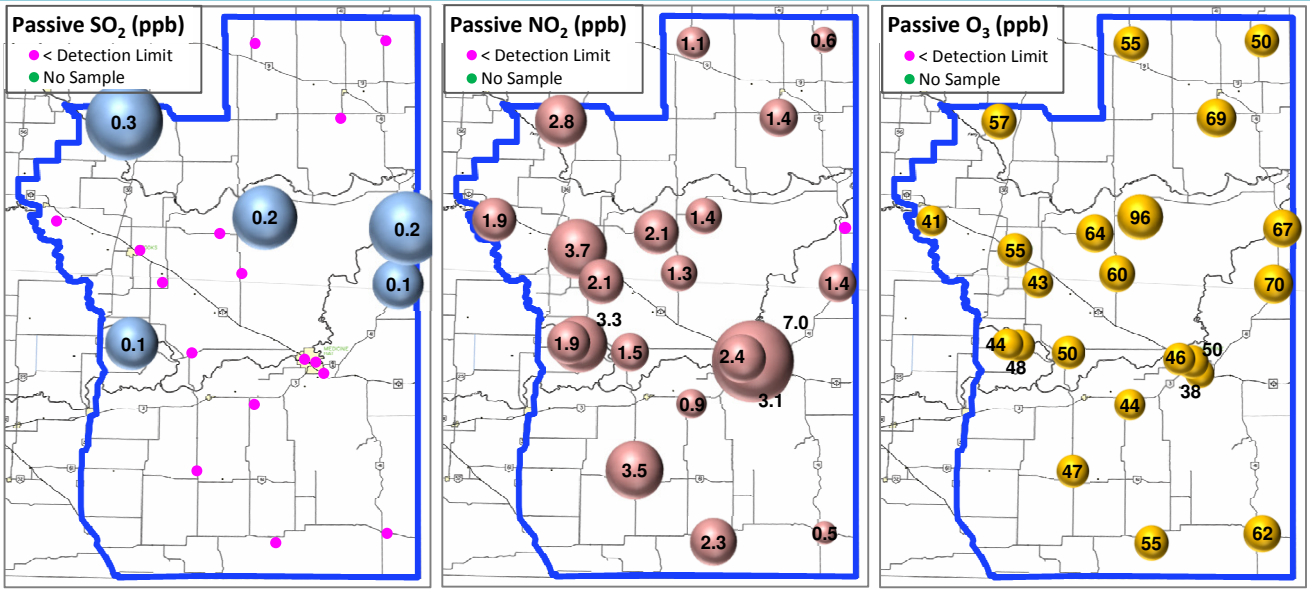
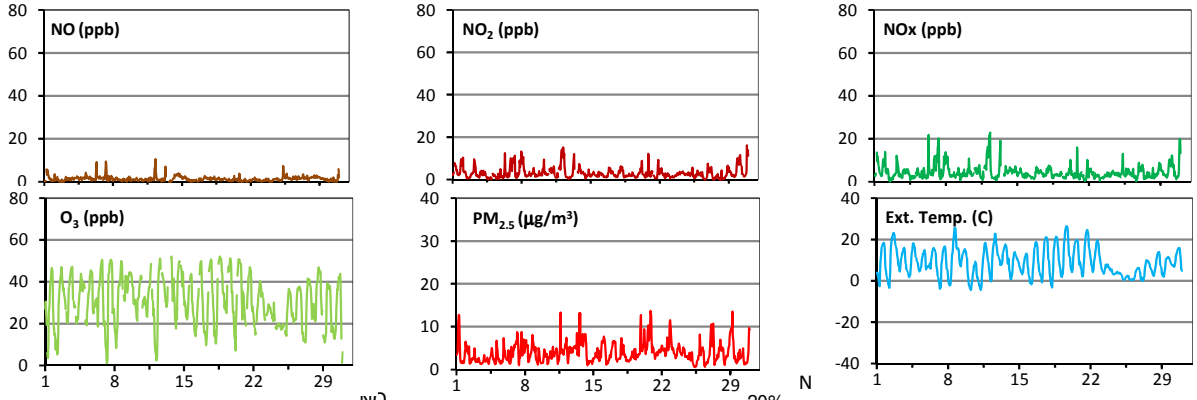
Passive Sampling Results

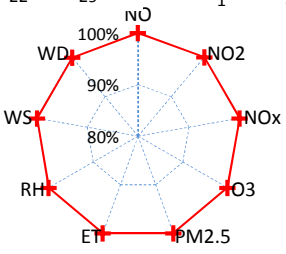


Continuous Sampling Results - Brooks Station

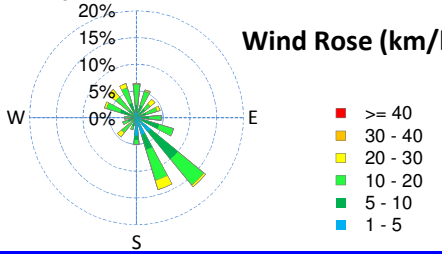
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc Unit	Avg. Conc.	Uptime	Maximum Conc	Maximum Time	AAAQO Objective	Exceed No.	Maximum Conc	Maximum Time	AAAQO Objective	Exceed No.
NO	ppb	1.3	100.0%	2.5	Apr-14	-	-	10.6	Apr-12 8:00	-	-
NO_2	ppb	3.0	100.0%	5.8	Apr-30	-	-	16.2	Apr-30 21:00	159	0
NOx	ppb	4.3	100.0%	8	Apr-7	-	-	22.9	Apr-12 8:00	-	-
O_3	ppb	31	100.0%	39	Apr-9	-	-	52	Apr-18 15:00	82	0
$PM_{2.5}$	ug/m3	4	100.0%	7	Apr-20	30	0	14	Apr-20 21:00	-	-



Uptime (%)



Wind Rose (km/hr)



Monthly Update

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

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

*All compliance parameters are above 90% operational. 57 hours of PM2.5 data at CH are flagged as "analyzer failure" on April 8-11. The analyzer flatlined, attributed to a pressure imbalance caused by strong winds. The winds caused the pump to shut off by setting off the pressure sensor.