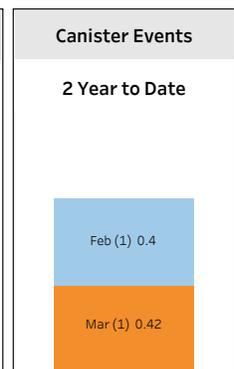
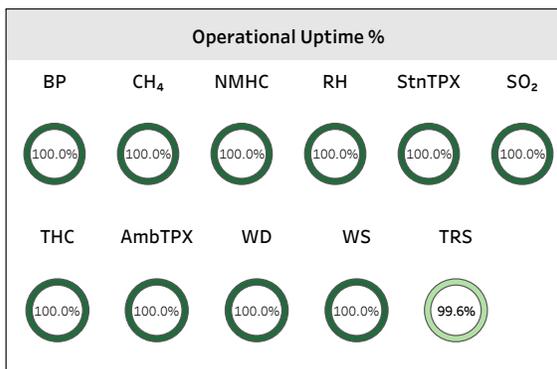
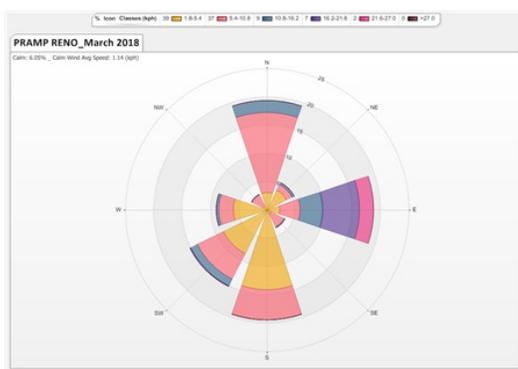


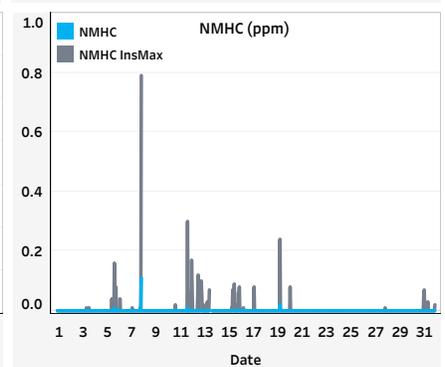
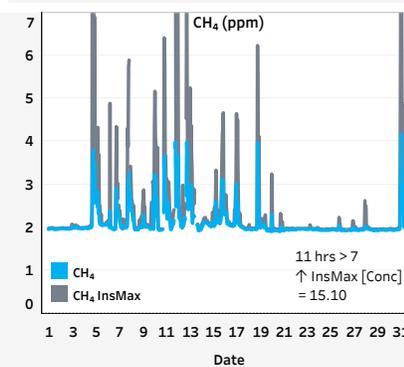
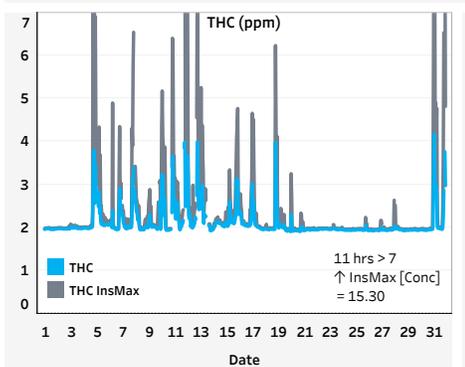
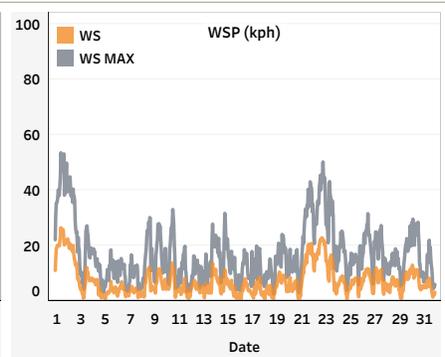
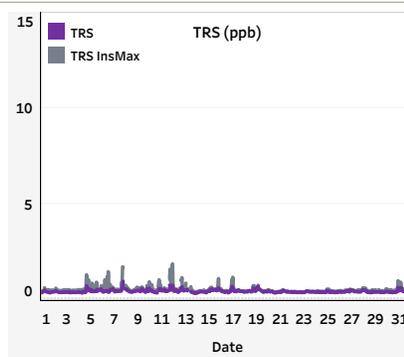
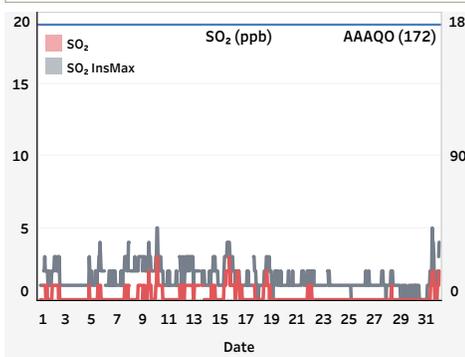
## Peace River Area Monitoring Program Committee - Reno Station March 2018 Monthly Report Summary

- All data has been baseline corrected.
- All compliance parameters were within the Alberta Ambient Air Quality Objectives and Guidelines (AAAQO, 2017).
- The operational times for all continuous ambient air analyzers, meteorological systems and data acquisition systems were above 90%.

Station	Pollutant	Unit	AVG [Conc]	Uptime	Hourly Max [Conc]	Max Date	WS	WD	# Hrs >172 AAAQO	24-Hr Max [Conc]	24-Hr Avg Max Date	# Days >48 AAAQO
PRAMP - Reno	SO <sub>2</sub>	ppb	0	100.0%	3	Mar 10 Hr1	4.2	198 (SSW)	0	1	Mar 9	0
	TRS	ppb	0.41	99.6%	0.94	Mar 7 Hr21	2.9	205 (SSW)	-	0.49	Mar 11	-
	THC	ppm	2.11	100.0%	4.18	Mar 31 Hr2	5.0	227 (SW)	-	2.53	Mar 31	-
	CH <sub>4</sub>	ppm	2.11	100.0%	4.18	Mar 31 Hr2	5.0	227 (SW)	-	2.53	Mar 31	-
	NMHC	ppm	0.00	100.0%	0.11	Mar 7 Hr21	2.9	205 (SSW)	-	0.00	Mar 1	-
	WS	kph	1.7	100.0%	26.4	Mar 1 Hr11	26.4	90 (E)	-	21.0	Mar 1	-
	WD	degree	82 (E)	100.0%	-	-	-	-	-	-	-	-
	RH	%	64	100.0%	93	Mar 21 Hr1	4.2	60 (ENE)	-	79	Mar 3	-
	BP	mbar	939	100.0%	958	Mar 31 Hr1	4.7	220 (SW)	-	953	Mar 30	-
	AmbTPX	°C	-7.0	100.0%	8.0	Mar 12 Hr15	6.0	183 (S)	-	1.6	Mar 14	-
StnTPX	°C	20.9	100.0%	28.2	Mar 12 Hr17	4.3	186 (S)	-	23.5	Mar 12	-	



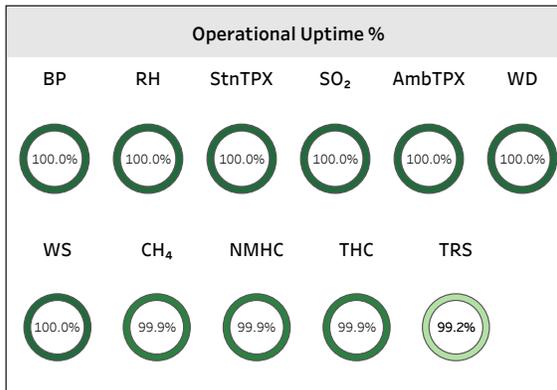
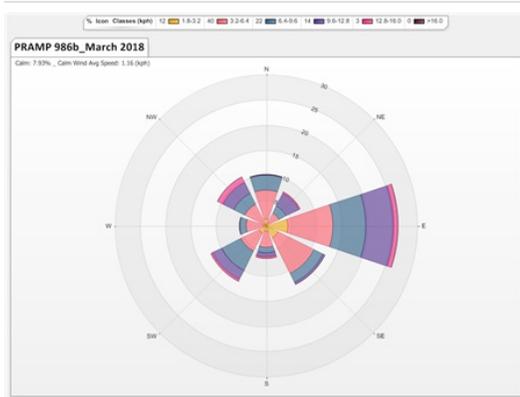
**Operational Summary** TRS: Uptime was 99.6% = 3 hrs downtime. Additional zero-span checks were initiated between Mar 11 and Mar 13 to assess instability in span response (-3 hrs). THC/CH<sub>4</sub>/NMHC: A canister event was recorded on March 7 at 21:45, at an initial concentration of 0.42 ppm.



## Peace River Area Monitoring Program Committee - 986b Station March 2018 Monthly Report Summary

- All data has been baseline corrected.
- All compliance parameters were within the Alberta Ambient Air Quality Objectives and Guidelines (AAAQO, 2017).
- The operational times for all continuous ambient air analyzers, meteorological systems and data acquisition systems were above 90%.

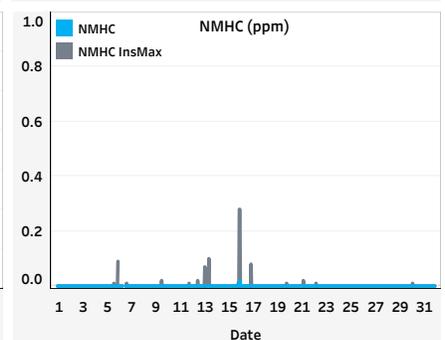
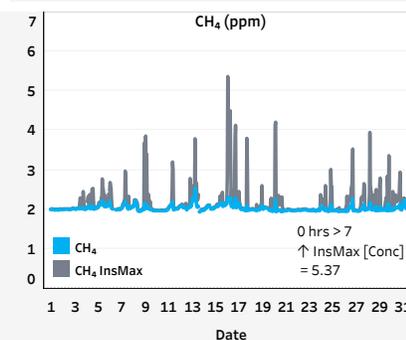
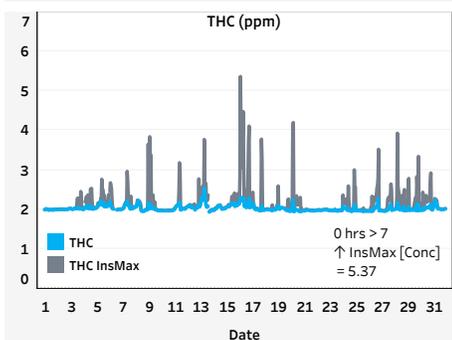
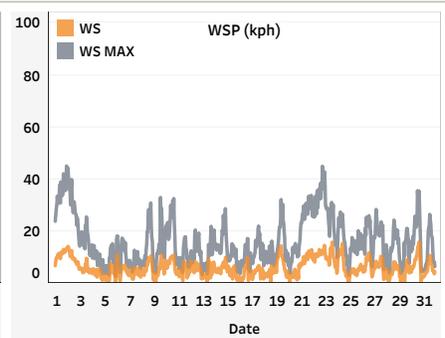
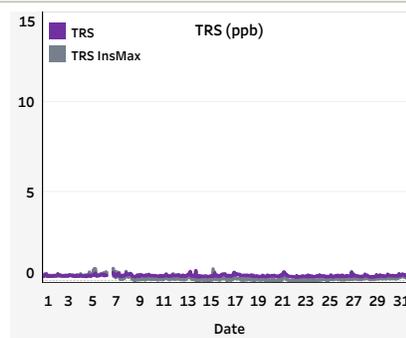
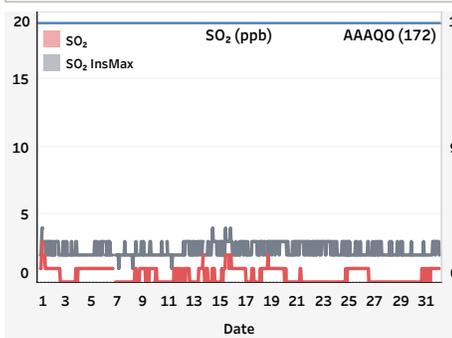
Station	Pollutant	Unit	AVG [Conc]	Uptime	Hourly Max		WS	WD	# Hrs >172 AAAQO	24-Hr Max [Conc]	24-Hr Avg Max Date	# Days >48 AAAQO
					[Conc]	Max Date						
PRAMP - 986b	SO <sub>2</sub>	ppb	0	100.0%	3	Mar 1 Hr4	9.9	83 (E)	0	1	Mar 1	0
	TRS	ppb	0.32	99.2%	0.61	Mar 13 Hr20	4.3	104 (ESE)	-	0.38	Mar 17	-
	THC	ppm	2.02	99.9%	2.54	Mar 13 Hr8	2.0	97 (E)	-	2.15	Mar 16	-
	CH <sub>4</sub>	ppm	2.02	99.9%	2.54	Mar 13 Hr8	2.0	97 (E)	-	2.15	Mar 16	-
	NMHC	ppm	0.00	99.9%	0.02	Mar 15 Hr23	2.6	105 (ESE)	-	0.00	Mar 1	-
	WS	kph	1.3	100.0%	15.8	Mar 30 Hr16	15.8	324 (NW)	-	11.1	Mar 1	-
	WD	degree	87 (E)	100.0%	-	-	-	-	-	-	-	-
	RH	%	66	100.0%	95	Mar 20 Hr5	2.9	1 (N)	-	82	Mar 23	-
	BP	mbar	943	100.0%	962	Mar 30 Hr22	1.9	117 (ESE)	-	958	Mar 30	-
	AmbTPX	°C	-6.8	100.0%	12.9	Mar 13 Hr16	2.0	98 (E)	-	4.1	Mar 20	-
StnTPX	°C	23.3	100.0%	24.8	Mar 8 Hr12	7.9	114 (ESE)	-	23.9	Mar 27	-	



### Canister Events

None Year to Date

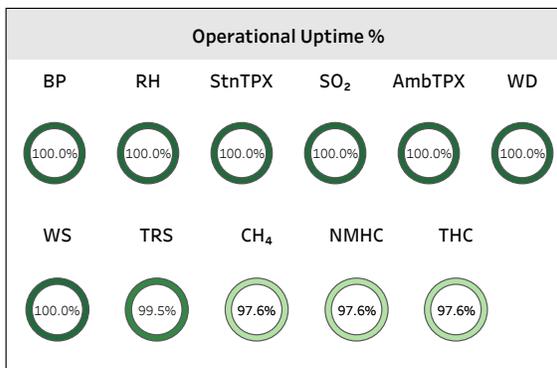
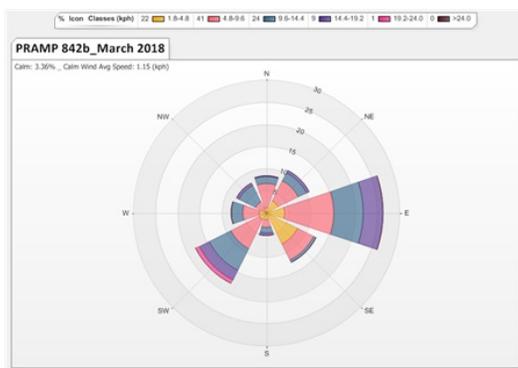
**Operational Summary\_TRS:** Uptime was 99.2% = 6 hrs downtime. On Mar 6 maintenance was performed on the sample pump and converter (-4 hrs). On Mar 14 the daily zero-span check (IZS) did not execute properly due to a communication error with the datalogger (-1 hr). A repeat IZS was initiated on Mar 15 following a reset in the communication program (-1 hr). **THC/CH<sub>4</sub>/NMHC:** Uptime was 99.9% = 1 hr of downtime. The communication program was reset on Mar 15 (-1 hr).



# Peace River Area Monitoring Program Committee - 842b Station March 2018 Monthly Report Summary

- All data has been baseline corrected.
- All compliance parameters were within the Alberta Ambient Air Quality Objectives and Guidelines (AAAQO, 2017).
- The operational times for all continuous ambient air analyzers, meteorological systems and data acquisition systems were above 90%.

Station	Pollutant	Unit	AVG [Conc]	Uptime	Hourly Max		WS	WD	# Hrs >172 AAAQO	24-Hr Max [Conc]	24-Hr Avg Max Date	# Days >48 AAAQO
					[Conc]	Max Date						
PRAMP - 842b	SO <sub>2</sub>	ppb	0	100.0%	2	Mar 1 Hr3	13.1	74 (ENE)	0	1	Mar 9	0
	TRS	ppb	0.18	99.5%	0.42	Mar 8 Hr7	4.0	72 (ENE)	-	0.27	Mar 5	-
	THC	ppm	2.02	97.6%	2.63	Mar 13 Hr4	4.2	73 (ENE)	-	2.19	Mar 13	-
	CH <sub>4</sub>	ppm	2.02	97.6%	2.63	Mar 13 Hr4	4.2	73 (ENE)	-	2.19	Mar 13	-
	NMHC	ppm	0.00	97.6%	0.00	Mar 1 Hr7	14.4	74 (ENE)	-	0.00	Mar 1	-
	WS	kph	1.0	100.0%	23.8	Mar 23 Hr14	23.8	221 (SW)	-	14.7	Mar 22	-
	WD	degree	109 (ESE)	100.0%	-	-	-	-	-	-	-	-
	RH	%	68	100.0%	93	Mar 20 Hr6	1.0	46 (NE)	-	84	Mar 23	-
	BP	mbar	944	100.0%	963	Mar 30 Hr21	0.5	214 (SSW)	-	959	Mar 30	-
	AmbTPX	°C	-7.1	100.0%	12.5	Mar 13 Hr17	5.7	101 (E)	-	3.4	Mar 14	-
	StnTPX	°C	21.5	100.0%	24.5	Mar 1 Hr18	18.4	77 (ENE)	-	22.9	Mar 14	-



**Canister Events**  
None Year to Date

**Operational Summary - TRS:** Uptime was 99.5% = 4 hrs downtime. During calibration (cal) on Mar 1, the as-found high point was repeated due to poor response time. The multi-point cal was successful, but marginally satisfied Maxxam's stability criteria. To validate adjustments, a repeat cal was completed on Mar 2 using alternate cal gear (-4 hrs). **THC/CH<sub>4</sub>/NMHC:** Uptime was 97.6% = 18 hrs downtime. The actuator failed on Feb 28 which caused poor sample injections to continue into Mar 1 (-7 hrs). The actuator was replaced on Mar 1 (-1 hr). The analyzer recorded erroneous, static values on Mar 2. The analyzer was restarted and an additional zero-span check (IZS) was performed (-2 hrs). The zero phase of the daily IZS did not properly execute on Mar 3 and Mar 10 so repeat IZS were conducted (-3 hrs). In response to a biased low span drift, an additional IZS and a repeat cal were performed on Mar 15 and Mar 22, respectively (-5 hrs). A canister event (0.33 ppm) was recorded on Mar 1, but deemed invalid as the analyzer was not producing valid data at this time.

