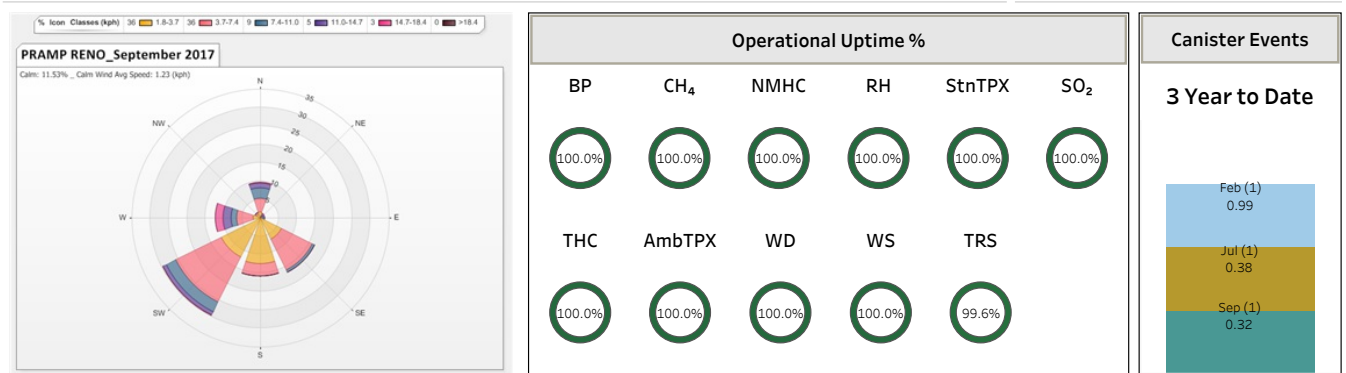


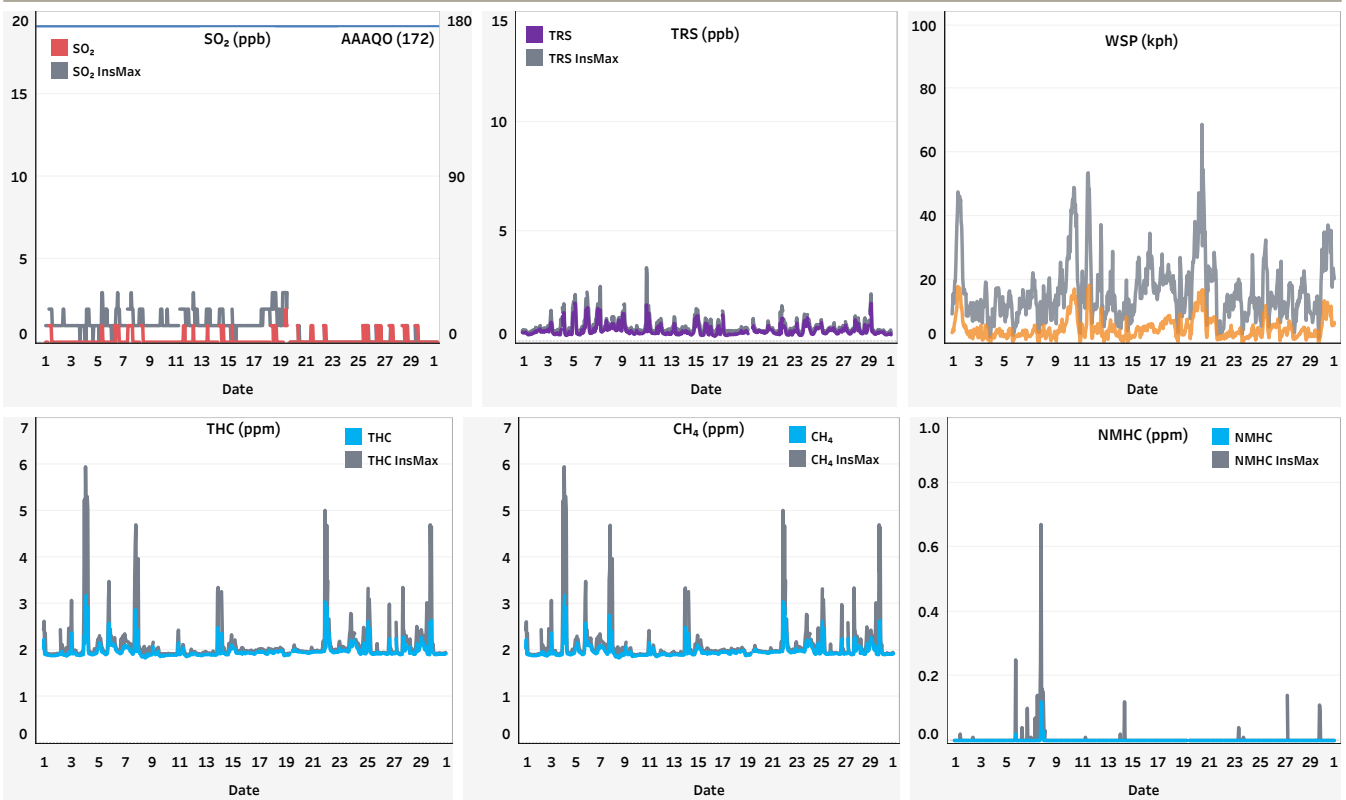
## Peace River Area Monitoring Program Committee - RENO Station September 2017 Monthly Report Summary

- All data has been baseline corrected. Data may be subject to change after Level 3 data review.
- All compliance parameters were within the Alberta Ambient Air Quality Objectives (AAAQO, 2017).
- The operational time 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%	2	Sep 19 Hr9	6.4	348 (NNW)	0	0	Sep 1	0
	TRS	ppb	0.51	99.6%	1.74	Sep 5 Hr6	2.5	200 (SSW)	-	0.76	Sep 7	-
	THC	ppm	1.98	100.0%	3.18	Sep 4 Hr4	1.9	208 (SSW)	-	2.14	Sep 4	-
	CH <sub>4</sub>	ppm	1.98	100.0%	3.18	Sep 4 Hr4	1.9	208 (SSW)	-	2.14	Sep 4	-
	NMHC	ppm	0.00	100.0%	0.12	Sep 7 Hr20	0.7	230 (SW)	-	0.01	Sep 7	-
	WS	kph	2.0	100.0%	18.3	Sep 11 Hr18	18.3	253 (WSW)	-	11.6	Sep 20	-
	WD	degree	226 (SW)	100.0%	-	-	-	-	-	-	-	-
	RH	%	68	100.0%	94	Sep 2 Hr21	3.0	210 (SSW)	-	90	Sep 19	-
	BP	mbar	938	100.0%	954	Sep 4 Hr6	2.3	205 (SSW)	-	952	Sep 4	-
	AmbTPX	°C	11.4	100.0%	28.9	Sep 6 Hr15	2.6	170 (SSE)	-	18.8	Sep 7	-
	StnTPX	°C	21.2	100.0%	22.9	Sep 19 Hr12	5.6	355 (N)	-	21.4	Sep 2	-



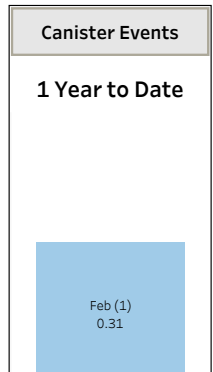
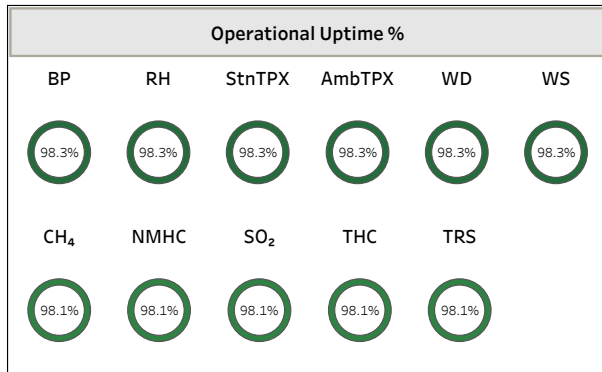
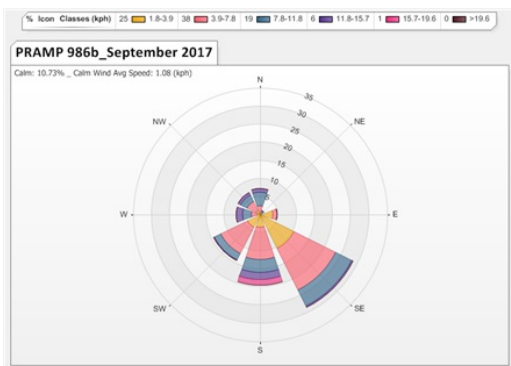
**Operational Summary - TRS:** Uptime was 99.6%, equivalent to 3 hrs downtime. The monthly calibration was performed on Sept 19. The first attempt was aborted due to an operator transcription error that yielded incorrect adjustments. The analyzer was reset to the as-found state and the second calibration attempt was successful. **NMHC:** Canister event triggered on Sept 7 @ 20:00 (0.32 ppm).



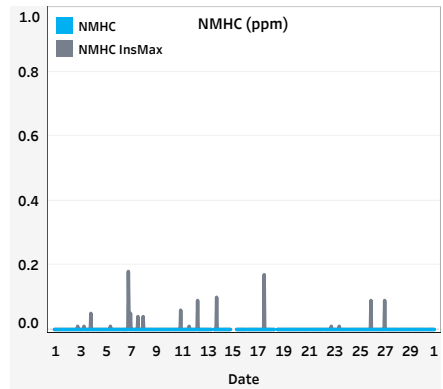
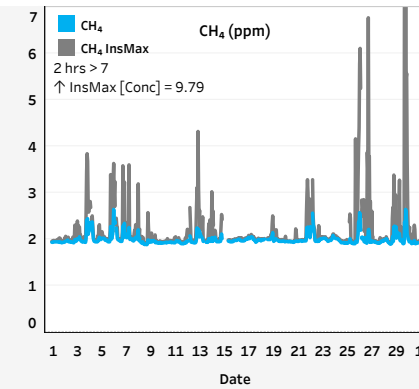
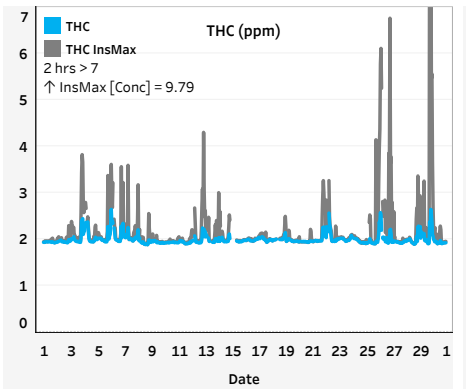
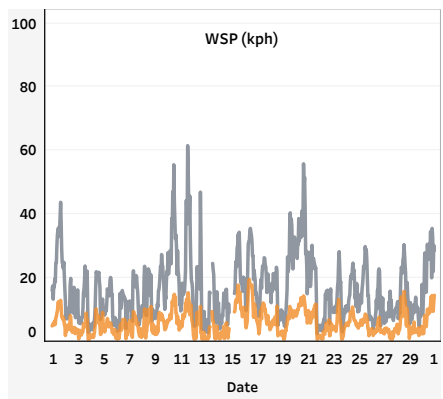
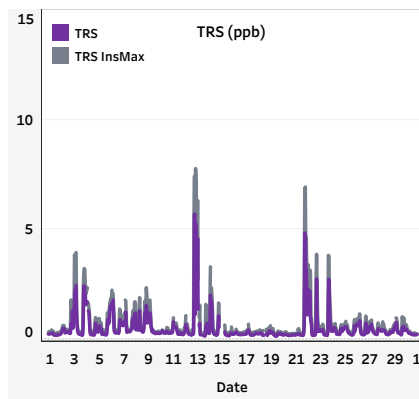
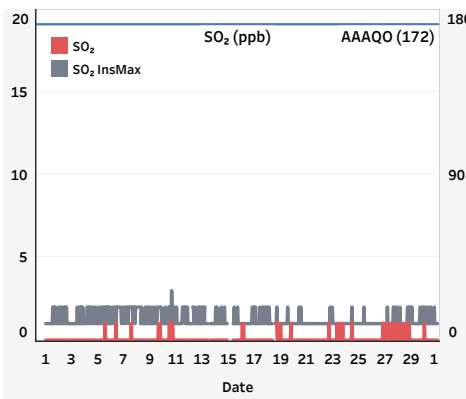
# Peace River Area Monitoring Program Committee - 986b Station September 2017 Monthly Report Summary

- All data has been baseline corrected. Data may be subject to change after Level 3 data review.
- All compliance parameters were within the Alberta Ambient Air Quality Objectives (AAAQO, 2017).
- The operational time 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 - 986b	SO <sub>2</sub>	ppb	0	98.1%	1	Sep 5 Hr13	5.5	210 (SSW)	0	1	Sep 27	0
	TRS	ppb	0.51	98.1%	5.71	Sep 12 Hr21	0.9	27 (NNE)	-	1.22	Sep 13	-
	THC	ppm	1.99	98.1%	2.64	Sep 6 Hr1	1.6	101 (E)	-	2.13	Sep 6	-
	CH <sub>4</sub>	ppm	1.99	98.1%	2.64	Sep 6 Hr1	1.6	101 (E)	-	2.13	Sep 6	-
	NMHC	ppm	0.00	98.1%	0.00	Sep 1 Hr0	4.9	215 (SSW)	-	0.00	Sep 1	-
	WS	kph	2.1	98.3%	19.5	Sep 16 Hr11	19.5	165 (SSE)	-	11.8	Sep 16	-
	WD	degree	185 (S)	98.3%	-	-	-	-	-	-	-	-
	RH	%	71	98.3%	98	Sep 3 Hr0	3.6	228 (SW)	-	84	Sep 2	-
	BP	mbar	941	98.3%	958	Sep 4 Hr6	1.3	114 (ESE)	-	956	Sep 4	-
	AmbTPX	°C	11.6	98.3%	29.8	Sep 6 Hr16	7.0	177 (S)	-	18.1	Sep 7	-
	StnTPX	°C	21.4	98.3%	25.8	Sep 15 Hr7	9.3	136 (SE)	-	22.5	Sep 15	-



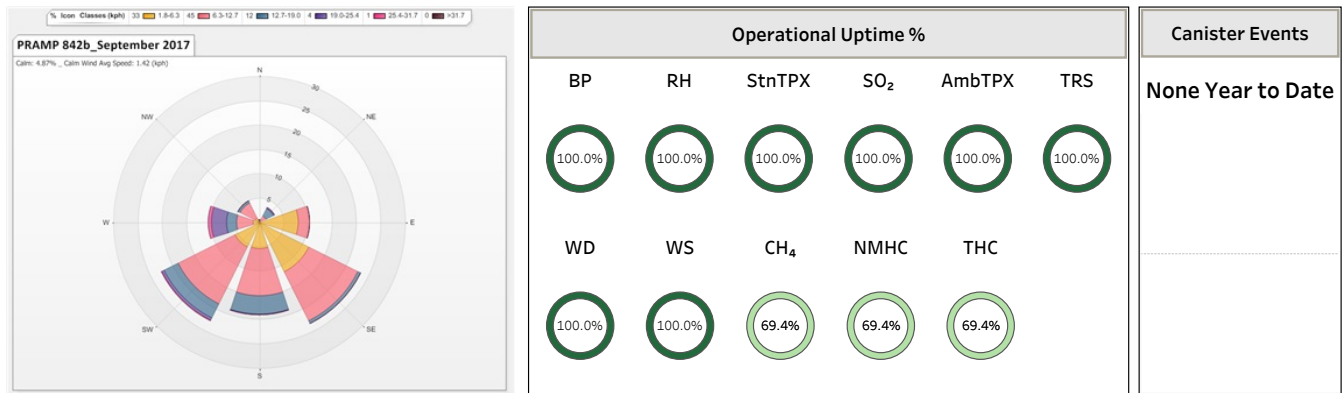
**Operational Summary\_All Parameters:** 12 hrs of downtime were recorded due to 2 power failures on Sept 13 and 15. **All Gas Parameters:** Uptime was 98.1%, equivalent to 14 hrs of downtime. The analyzers were in recovery mode for 1 hr following the power failure on Sept 13. **SO<sub>2</sub>/TRS:** The zero/span check did not execute properly following the Sept 15 power failure, as the analyzers were still stabilizing. An additional span verification was triggered at hr 20:00, resulting in 1 hr of downtime. **THC/CH<sub>4</sub>/NMHC:** A zero/span check was triggered on Sept 15, following the power failure. The span check extended into hr 08:00, resulting in 1 hr of downtime. **Meteorological Parameters:** Uptime was 98.3%, equivalent to 12 hrs of downtime.



## Peace River Area Monitoring Program Committee - 842b Station September 2017 Monthly Report Summary

• All data has been baseline corrected. Data may be subject to change after Level 3 data review. • All compliance parameters were within the Alberta Ambient Air Quality Objectives (AAAQO, 2017). • Excluding **THC/CH<sub>4</sub>/NMHC (69.4%, AEP #329861)**, the operational time for all continuous ambient air analyzers, meteorological systems and data acquisition systems were above 90%.

Station	Pollutant	Unit	AVG [Conc]	Uptime	Hourly		WS	WD	# Hrs >172 AAAQO	24-Hr Max [Conc]	24-Hr Avg Max Date	# Days >48 AAAQO
					Max [Conc]	Max Date						
PRAMP - 842b	SO <sub>2</sub>	ppb	0	100.0%	1	Sep 7 Hr9	14.2	200 (SSW)	0	0	Sep 1	0
	TRS	ppb	0.18	100.0%	0.73	Sep 8 Hr7	6.5	286 (WNW)	-	0.32	Sep 8	-
	THC	ppm	1.99	69.4%	2.27	Sep 29 Hr23	3.1	82 (E)	-	2.06	Sep 4	-
	CH <sub>4</sub>	ppm	1.99	69.4%	2.27	Sep 29 Hr23	3.1	82 (E)	-	2.06	Sep 4	-
	NMHC	ppm	0.00	69.4%	0.00	Sep 1 Hr0	8.9	180 (S)	-	0.00	Sep 1	-
	WS	kph	3.4	100.0%	31.6	Sep 11 Hr16	31.6	257 (WSW)	-	17.4	Sep 10	-
	WD	degree	205 (SSW)	100.0%	-	-	-	-	-	-	-	-
	RH	%	70	100.0%	96	Sep 2 Hr22	5.0	167 (SSE)	-	86	Sep 19	-
	BP	mbar	942	100.0%	958	Sep 4 Hr5	2.0	90 (E)	-	956	Sep 4	-
	AmbTPX	°C	11.1	100.0%	29.0	Sep 6 Hr16	5.9	203 (SSW)	-	18.8	Sep 7	-
StnTPX	°C	21.9	100.0%	25.8	Sep 27 Hr16	9.4	254 (WSW)	-	22.8	Sep 26	-	



**Operational Summary\_THC/CH<sub>4</sub>/NMHC:** Uptime was 69.4% = 220 hrs downtime. The analyzer malfunctioned on Sept 15 and required off-site repair. A replacement analyzer was installed on Sept 16. The analyzer was brought back on-line on Sept 18 following column conditioning and post-repair calibration activities (83 hrs downtime). On Sept 20, a shut-down calibration, maintenance and post-repair calibration were performed to address unstable span responses for methane (15 hrs downtime). In response to low concentration alarms on Sept 26, a shut-down calibration was attempted on Sept 27, but failed. The analyzer was replaced with the newly repaired analyzer, originally removed on Sept 15. Data was invalidated to the point when a decline in concentrations was identified (122 hrs downtime, AEP # 329861).

