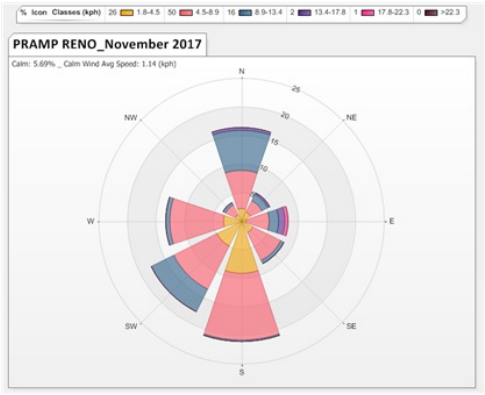
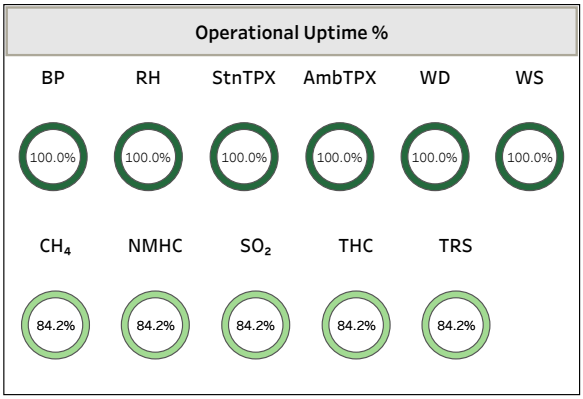
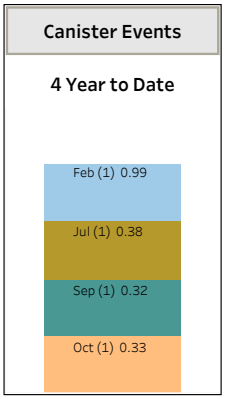
Peace River Area Monitoring Program Committee - Reno Station November 2017 Monthly Report Summary

- 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 times for all gas parameters were below 90% (AEP Reference # 331557). The operational times for meteorological systems and data acquisition systems were above 90%.

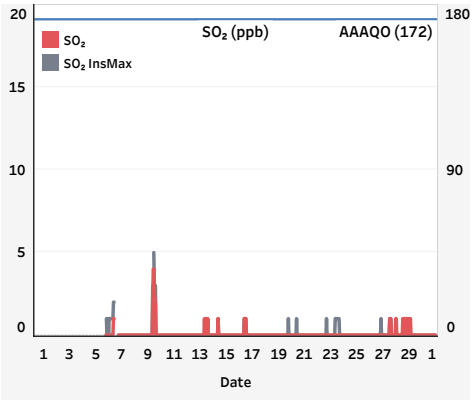
Station	Pollutant	Unit	AVG [Conc]	Uptime	Hourly Max [Conc]	Max Date	WS	WD	# Hrs >172 AAAQO	24-Hr Max [Conc]	24-Hr Avg Max Date	# Days >48 AAAQO
PRAMP - RENO	SO_2	ppb	0	84.2%	4	Nov 9 Hr9	7.7	132 (SE)	0	1	Nov 9	0
	TRS	ppb	0.39	84.2%	1.72	Nov 24 Hr13	5.1	162 (SSE)	-	0.61	Nov 28	-
	THC	ppm	2.04	84.2%	3.27	Nov 8 Hr9	2.6	205 (SSW)	-	2.22	Nov 8	-
	CH_4	ppm	2.04	84.2%	3.27	Nov 8 Hr9	2.6	205 (SSW)	-	2.22	Nov 8	-
	NMHC	ppm	0.00	84.2%	0.02	Nov 6 Hr0	3.1	192 (S)	-	0.00	Nov 5	-
	WS	kph	0.8	100.0%	22.2	Nov 26 Hr8	22.2	96 (E)	-	10.7	Nov 26	-
	WD	degree	203 (SSW)	100.0%	-	-	-	-	-	-	-	-
	RH	%	75	100.0%	92	Nov 23 Hr3	8.4	195 (SSW)	-	83	Nov 23	-
	BP	mbar	935	100.0%	955	Nov 2 Hr20	5.4	12 (NNE)	-	952	Nov 2	-
	AmbTPX	°C	-10.	100.0%	4.3	Nov 23 Hr13	11.3	253 (WSW)	-	1.6	Nov 23	-
	StnTPX	°C	21.0	100.0%	22.1	Nov 6 Hr15	9.8	240 (WSW)	-	21.9	Nov 30	-

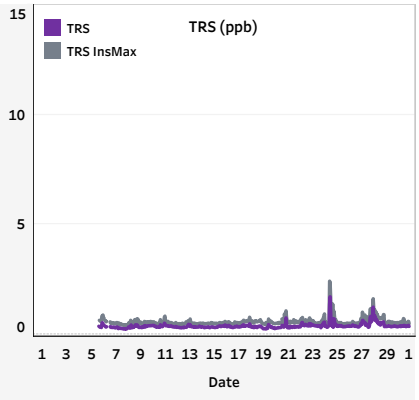


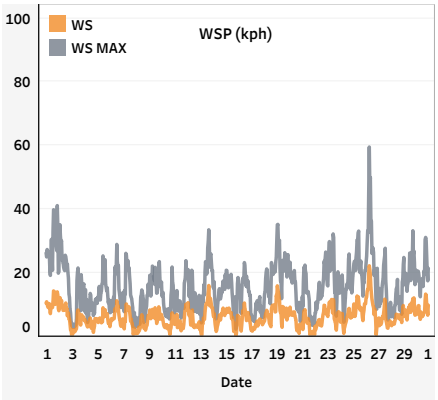


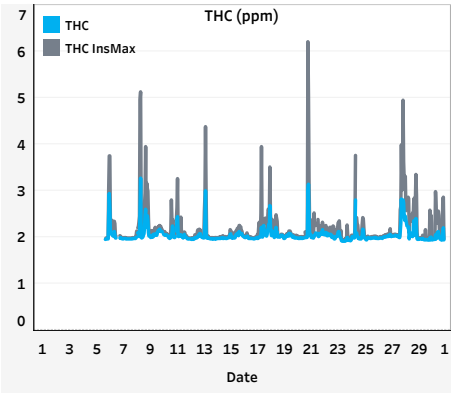


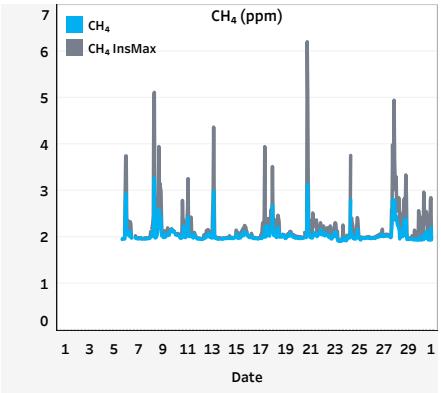
Operational Summary_IZS: The daily zero/span schedule was returned to a 23 hour cycle on Nov 7. **All Gas Parameters:** Uptime was 84.2% = 114 hrs downtime (AEP # 331557). On November 5, it was discovered that the sample manifold blower failed and would require replacement. As the manifold feeds all analyzers all gas parameters were affected. Data was invalidated from Oct 31, hr 6 to Nov 5, hr 17. **Stn. Temp**: Low temperatures were recorded briefly, between Nov 8 and 9. A function check was done on the sensor to rule out equipment failure.

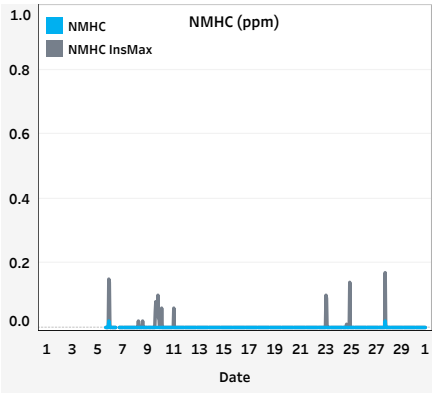








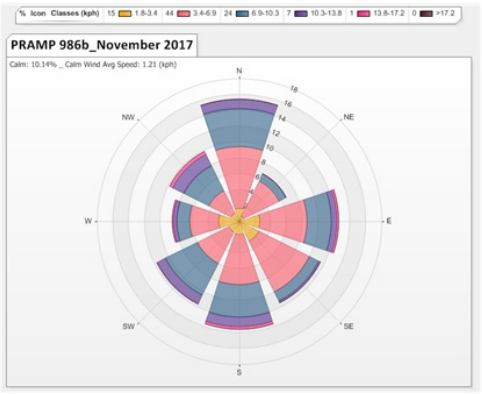


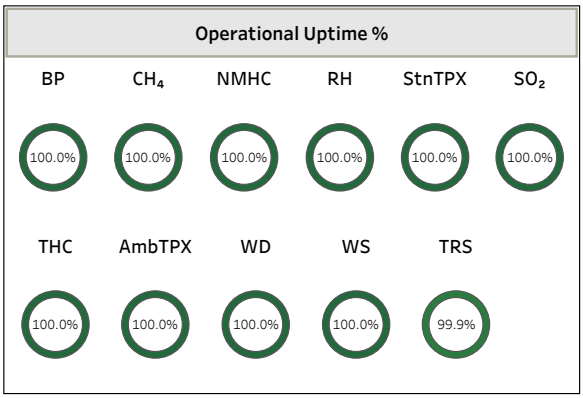


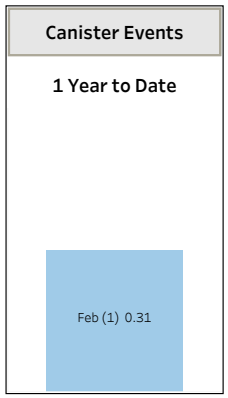
Peace River Area Monitoring Program Committee - 986b Station November 2017 Monthly Report Summary

- 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 times for all continuous ambient air analyzers, meteorological systems and data acquisition systems were above 90%.

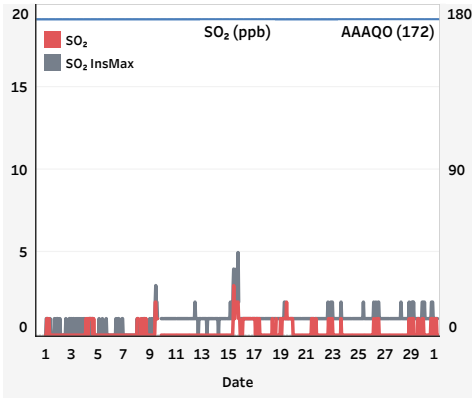
Station	Pollutant	Unit	AVG [Conc]	Uptime	Hourly Max [Conc]	Max Date	WS	WD	# Hrs >172 AAAQO	24-Hr Max [Conc]	24-Hr Avg Max Date	# Days >48 AAAQO
PRAMP - 986b	SO_2	ppb	0	100.0%	3	Nov 15 Hr9	6.1	82 (E)	0	1	Nov 15	0
	TRS	ppb	0.27	99.9%	0.45	Nov 10 Hr4	7.6	306 (NW)	-	0.32	Nov 27	-
	THC	ppm	2.04	100.0%	3.05	Nov 16 Hr7	1.5	279 (W)	-	2.17	Nov 16	-
	CH_4	ppm	2.04	100.0%	3.05	Nov 16 Hr7	1.5	279 (W)	-	2.17	Nov 16	-
	NMHC	ppm	0.00	100.0%	0.01	Nov 6 Hr19	4.4	309 (NW)	-	0.00	Nov 1	-
	WS	kph	0.3	100.0%	17.1	Nov 23 Hr8	17.1	195 (SSW)	-	8.4	Nov 1	-
	WD	degree	219 (SW)	100.0%	-	-	-	-	-	-	-	-
	RH	%	79	100.0%	96	Nov 23 Hr4	5.8	215 (SSW)	-	92	Nov 23	-
	BP	mbar	939	100.0%	959	Nov 2 Hr16	5.7	351 (N)	-	957	Nov 2	-
	AmbTPX	°C	-11.	100.0%	3.7	Nov 23 Hr11	8.7	255 (WSW)	-	0.0	Nov 23	-
	StnTPX	°C	23.2	100.0%	24.6	Nov 3 Hr1	2.4	103 (ESE)	-	23.8	Nov 3	-

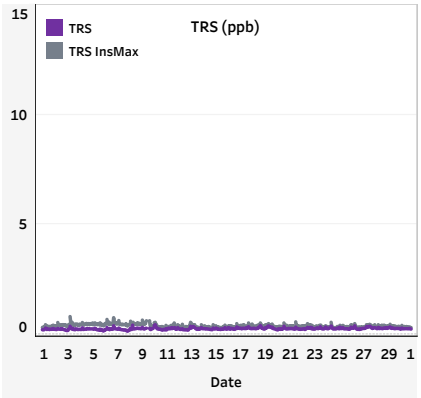


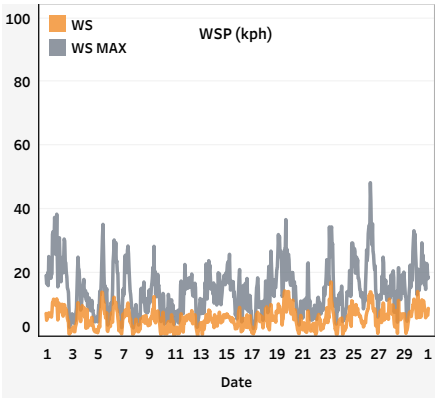


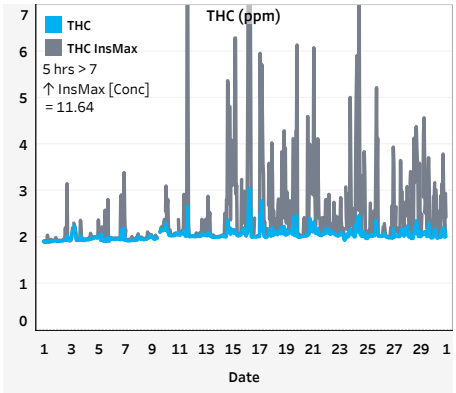


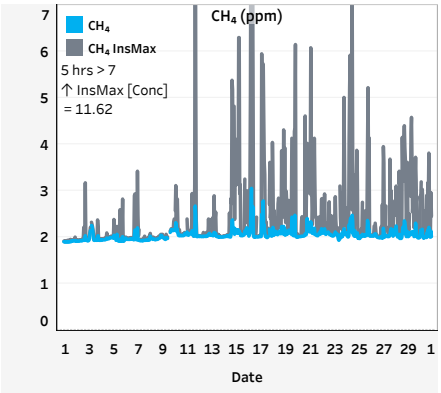
Operational Summary_IZS: the daily zero/span schedule was returned to a 23 hour cycle on November 7. **TRS:** Uptime was 99.9% = 1 hr downtime. A repeat span verification was performed on Nov 8 to assess a low span drift.

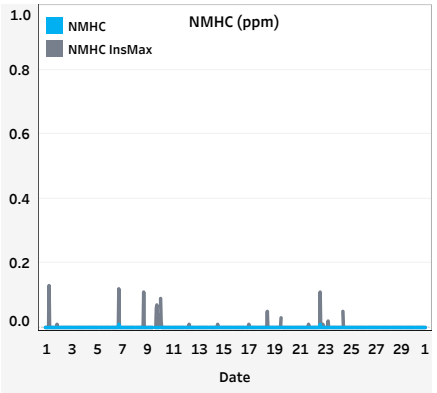








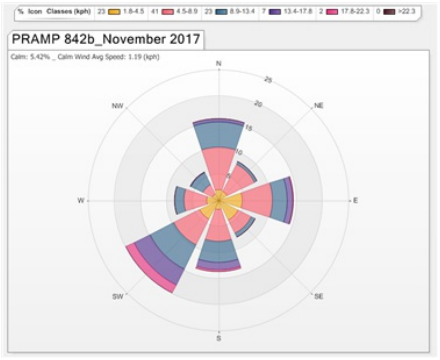


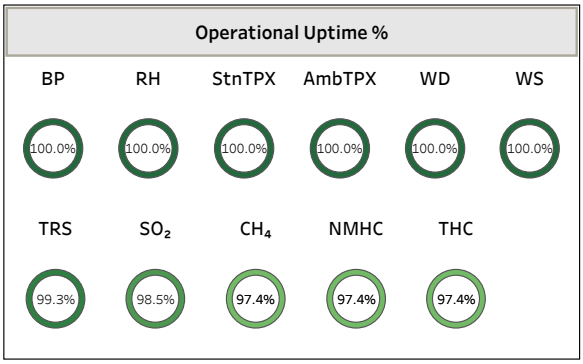


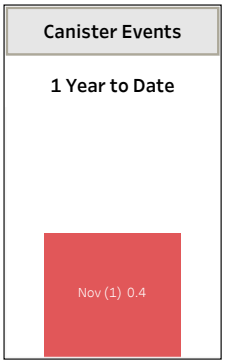
Peace River Area Monitoring Program Committee - 842b Station November 2017 Monthly Report Summary

- 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 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 - 842b	SO_2	ppb	0	98.5%	3	Nov 9 Hr9	8.6	123 (ESE)	0	1	Nov 9	0
	TRS	ppb	0.18	99.3%	0.50	Nov 6 Hr19	2.4	253 (WSW)	-	0.23	Nov 27	-
	THC	ppm	2.01	97.4%	2.22	Nov 3 Hr3	3.2	122 (ESE)	-	2.08	Nov 9	-
	CH_4	ppm	2.01	97.4%	2.22	Nov 3 Hr4	2.3	116 (ESE)	-	2.08	Nov 9	-
	NMHC	ppm	0.00	97.4%	0.02	Nov 10 Hr7	0.9	344 (NNW)	-	0.00	Nov 1	-
	WS	kph	1.1	100.0%	22.2	Nov 29 Hr22	22.2	217 (SW)	-	12.7	Nov 29	-
	WD	degree	213 (SSW)	100.0%	-	-	-	-	-	-	-	-
	RH	%	82	100.0%	96	Nov 23 Hr22	4.1	277 (W)	-	90	Nov 13	-
	BP	mbar	940	100.0%	960	Nov 2 Hr18	4.1	347 (NNW)	-	958	Nov 2	-
	AmbTPX	°C	-10.	100.0%	3.5	Nov 23 Hr10	15.5	225 (SW)	-	0.8	Nov 23	-
	StnTPX	°C	21.5	100.0%	23.2	Nov 23 Hr13	13.8	246 (WSW)	-	22.7	Nov 26	-







Operational Summary_IZS: The daily zero/span schedule was returned to a 23 hour cycle on Nov 7. **SO_2:** Uptime was 98.5% = 11 hrs downtime. A repeat span verification was performed on Nov 19 to assess a high span drift (- 2 hrs). Additional calibration activities were performed in order to complete maintenance on the PMT fan and UV lamp (-9 hrs). **TRS**: Uptime was 99.3% = 5 hrs downtime. A repeat span verification was performed on Nov 3 to assess a high span drift (- 1 hr). A repeat span verification and an as-found response were completed on Nov 23 to address a high span drift (-4 hrs). **THC/CH_4/NMHC**: Uptime was 97.4% = 19 hrs downtime. Sporadic instances of $CH_4 \leq 1.80$ ppm were discarded in the minute data and hourly averages were recalculated (poor injections, low in frequency and short duration). Hourly data with > 15 min of poor injections were discarded on Nov 12 and 15 (-2 hrs). Additional calibrations and maintenance on Nov 17 to address injection issue (-7 hrs). Additional calibration activities were performed in order to replace the analyzer on Nov 23 (-10 hrs). 1 canister event was triggered on Nov 12, at an initial [conc.] of 0.40 ppm. After minute data was treated, the 5 min [conc.] was < 0.30 ppm, rendering the canister event false.