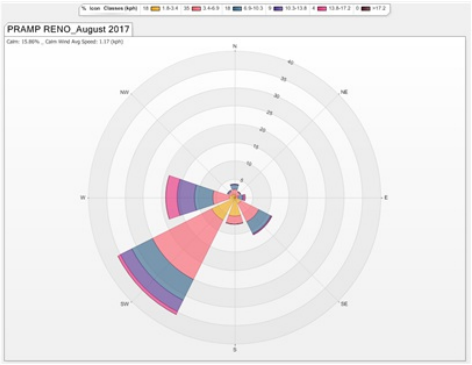
Peace River Area Monitoring Program Committee - RENO Station August 2017 Monthly Report Summary

- 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_2	ppb	0	100.0%	1	August 7 Hr10	3.3	6 (N)	0	0	August 1	0
	TRS	ppb	0.56	99.5%	5.10	August 10 Hr6	3.1	200 (SSW)	-	1.02	August 9	-
	THC	ppm	1.95	98.9%	3.90	August 15 Hr21	1.8	209 (SSW)	-	2.23	August 5	-
	CH_4	ppm	1.95	98.9%	3.89	August 15 Hr21	1.8	209 (SSW)	-	2.23	August 5	-
	NMHC	ppm	0.00	98.9%	0.03	August 13 Hr19	4.4	208 (SSW)	-	0.01	August 13	-
	WS	kph	3.5	100.0%	17.1	August 18 Hr13	17.1	245 (WSW)	-	11.5	August 25	-
	WD	degree	230 (SW)	100.0%	-	-	-	-	-	-	-	-
	RH	%	63	100.0%	94	August 2 Hr2	1.7	222 (SW)	-	85	August 24	-
	BP	mbar	939	100.0%	954	August 1 Hr6	4.3	252 (WSW)	-	953	August 1	-
	AmbTPX	°C	16.2	100.0%	29.1	August 12 Hr14	8.8	132 (SE)	-	21.5	August 12	-
	StnTPX	°C	21.4	100.0%	24.9	August 9 Hr15	2.5	197 (SSW)	-	22.3	August 9	-



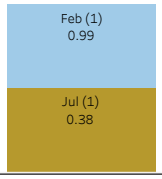
Operational Uptime %

BP	RH	StnTPX	SO_2	AmbTPX	WD
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

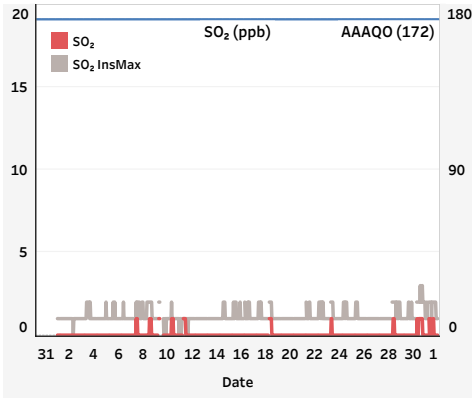
WS	TRS	CH_4	NMHC	THC
100.0%	99.5%	98.9%	98.9%	98.9%

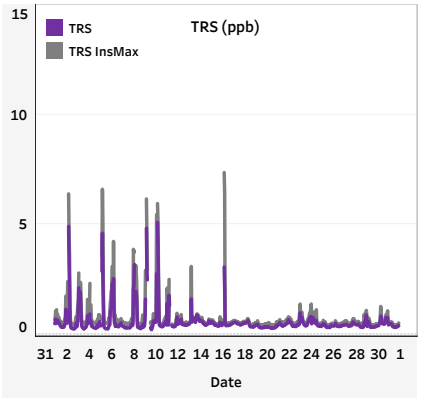
Canister Events

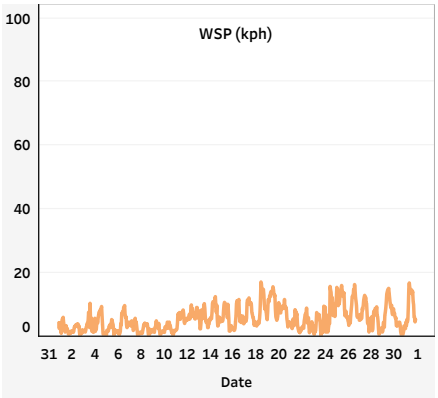
2 Year to Date

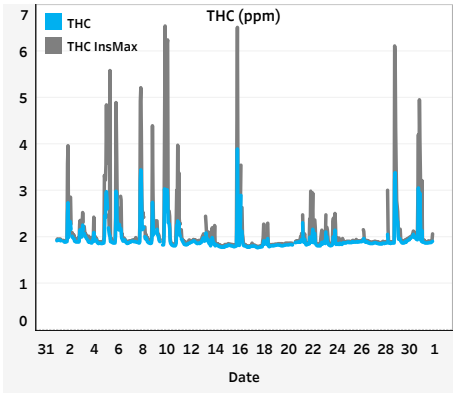


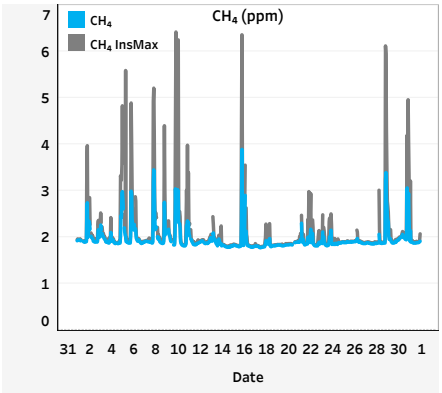
Operational Summary_TRS: Uptime was 99.5%, equivalent to 4 hrs downtime. A repeat calibration was performed on Aug 11 to assess a span drift following monthly calibration on Aug 9. **THC**: Uptime was 98.9%, equivalent to 8 hrs downtime. On Aug 1, 4 hrs of downtime were recorded due to low N_2 carrier gas pressure prompting cylinder exchange, followed by an additional zero/span check . A repeat calibration was performed on Aug 20, due to instances of low hourly averages.

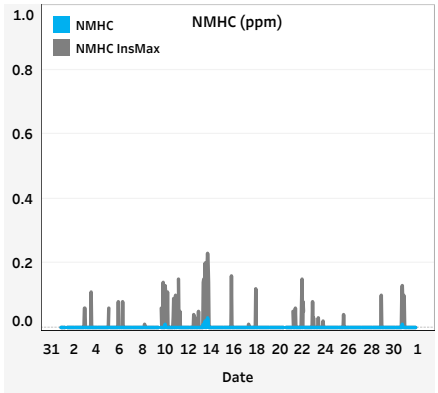








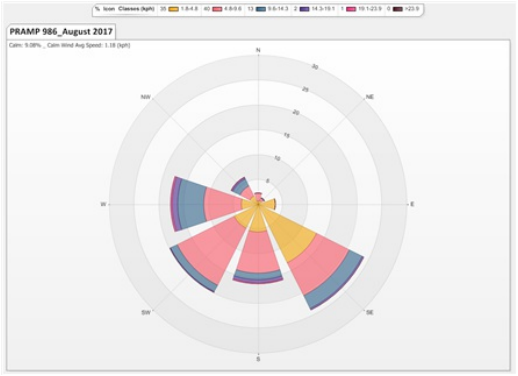


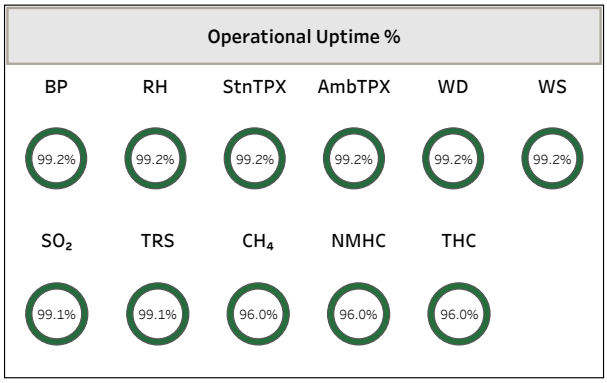


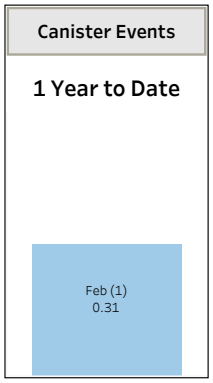
Peace River Area Monitoring Program Committee - 986b Station August 2017 Monthly Report Summary

- 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%.

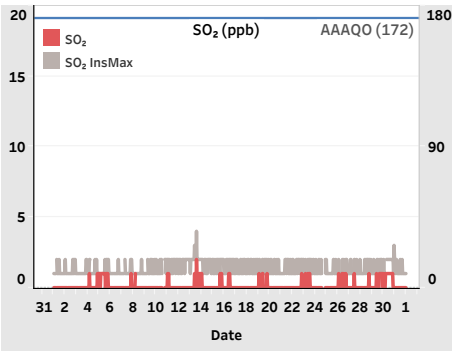
Station	Pollutant	Unit	AVG [Conc]	Uptime	Hourly Max [Conc]	Max Date	WS	WD	# Hrs >172 AAAQO	24-Hr Max [Conc]	24-Hr Avg Max Date	# Days >48 AAAQO
PRAMP - 986b	SO_2	ppb	0	99.1%	2	August 13 Hr13	4.1	250 (WSW)	0	1	August 5	0
	TRS	ppb	0.41	99.1%	1.21	August 10 Hr4	1.5	109 (ESE)	-	0.56	August 10	-
	THC	ppm	1.99	96.0%	2.65	August 10 Hr1	0.6	96 (E)	-	2.17	August 5	-
	CH_4	ppm	1.99	96.0%	2.65	August 10 Hr1	0.6	96 (E)	-	2.17	August 5	-
	NMHC	ppm	0.00	96.0%	0.08	August 13 Hr21	3.8	203 (SSW)	-	0.01	August 13	-
	WS	kph	2.8	99.2%	23.8	August 19 Hr10	23.8	295 (WNW)	-	10.9	August 12	-
	WD	degree	215 (SSW)	99.2%	-	-	-	-	-	-	-	-
	RH	%	65	99.2%	98	August 1 Hr7	4.9	323 (NW)	-	86	August 6	-
	BP	mbar	943	99.2%	958	August 1 Hr12	2.8	316 (NW)	-	957	August 1	-
	AmbTPX	°C	16.7	99.2%	30.4	August 11 Hr16	13.4	151 (SSE)	-	21.5	August 11	-
	StnTPX	°C	21.3	99.2%	22.8	August 10 Hr15	6.4	285 (WNW)	-	21.6	August 21	-

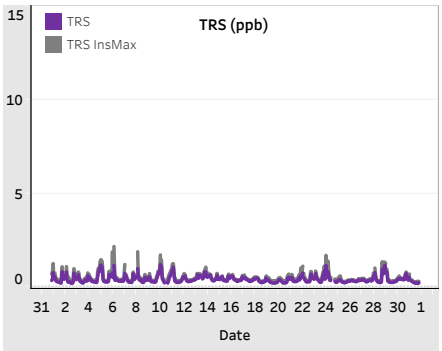


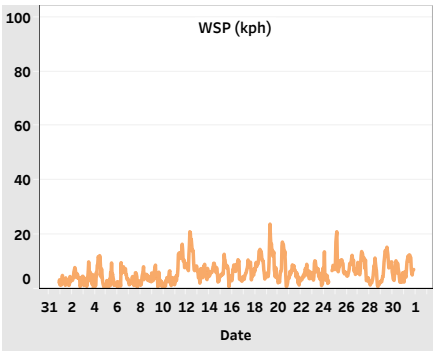


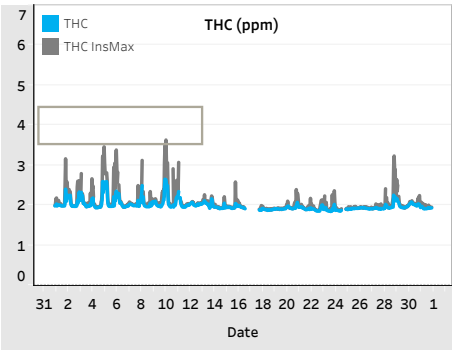


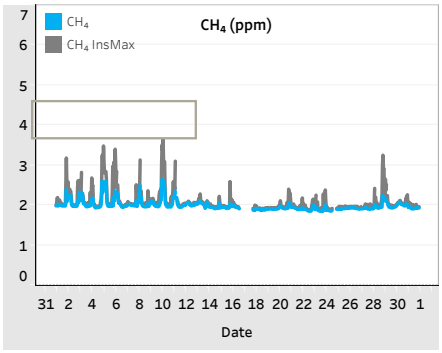
Operational Summary_All Parameters: 6 hrs of data were lost due to a power failure on Aug 24. All analyzers were in recovery mode for an additional hr following the power failure. **THC/CH_4/NMHC**: Uptime was 96.0%, equivalent to 30 hrs of downtime. 1 hr of downtime was recorded on Aug 10 for manifold cleaning. An additional span check was conducted on Aug 11 to address a NMHC span drift. A shut-down calibration was performed on Aug 16, followed by overnight column conditioning. On Aug 17, the analyzer was brought back on-line after various maintenance activities and quality checks. 20 hrs of downtime were incurred. Following the Aug 24 power failure, this analyzer was in recovery mode for 2 hrs.

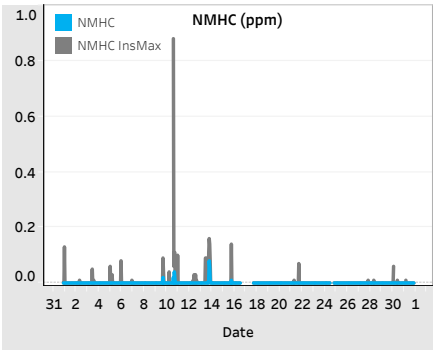








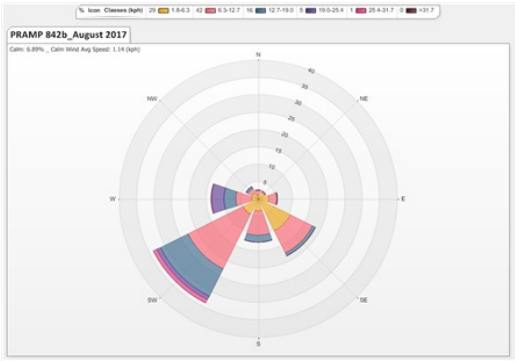




Peace River Area Monitoring Program Committee - 842b Station August 2017 Monthly Report Summary

- 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 - 842b	SO_2	ppb	0	98.7%	1	August 2 Hr21	0.8	98 (E)	0	0	August 1	0
	TRS	ppb	0.21	98.7%	0.89	August 16 Hr3	3.7	149 (SSE)	-	0.34	August 13	-
	THC	ppm	1.96	98.1%	2.65	August 5 Hr6	0.2	255 (WSW)	-	2.06	August 5	-
	CH_4	ppm	1.96	98.1%	2.65	August 5 Hr6	0.2	255 (WSW)	-	2.06	August 5	-
	NMHC	ppm	0.00	98.1%	0.00	August 1 Hr0	3.8	341 (NNW)	-	0.00	August 1	-
	WS	kph	5.6	95.8%	31.6	August 18 Hr15	31.6	245 (WSW)	-	17.5	August 18	-
	WD	degree	221 (SW)	95.8%	-	-	-	-	-	-	-	-
	RH	%	64	98.8%	95	August 1 Hr7	2.8	271 (W)	-	85	August 24	-
	BP	mbar	943	98.8%	958	August 1 Hr6	4.5	259 (WSW)	-	957	August 1	-
	AmbTPX	°C	16.2	98.8%	31.0	August 10 Hr16	7.1	310 (NW)	-	21.8	August 12	-
	StnTPX	°C	22.7	98.8%	24.0	August 15 Hr23	4.2	140 (SE)	-	23.2	August 20	-



Operational Uptime %

BP	RH	StnTPX	AmbTPX	SO_2	TRS
98.8%	98.8%	98.8%	98.8%	98.7%	98.7%

CH_4	NMHC	THC	WD	WS
98.1%	98.1%	98.1%	95.8%	95.8%

Canister Events

None Year to Date

Operational Summary_All Parameters: 10 hrs of data were lost due to power failures on Aug 2 and 24. Analyzers were in recovery mode for an additional hr following the Aug 24 failure. **THC/CH_4/NMHC**: Uptime was 98.1%, equivalent to 14 hrs downtime. 1 hr of downtime was recorded on Aug 10 for manifold cleaning. Following both power failures, this analyzer was in recovery mode for 2 hrs. Another hr of data was invalidated on Aug 25, following a very brief power failure. **Wind System**: Uptime was 95.8%, equivalent to 31 hrs downtime. Following the Aug 24 power failure, the wind system malfunctioned. Maintenance was conducted on August 24 and 25, but the eventual replacement of the wind system occurred on Aug 30.