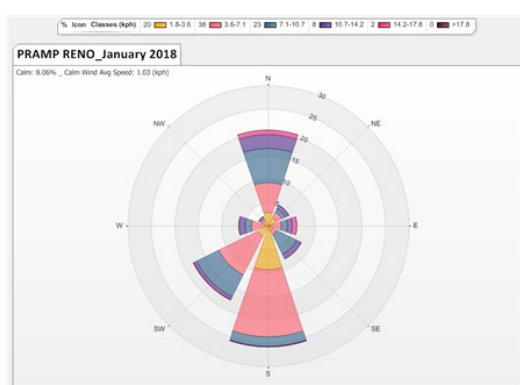


Peace River Area Monitoring Program Committee - Reno Station January 2018 Monthly Report Summary

- 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 and Guidelines (AAAQO, 2017).
- The operational times for all continuous ambient air analyzers, meteorological systems and data acquisition systems were above 90%.

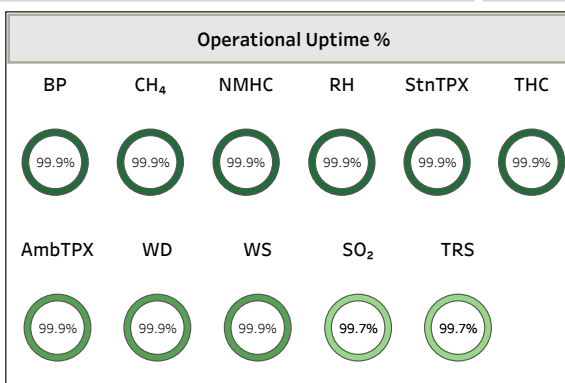
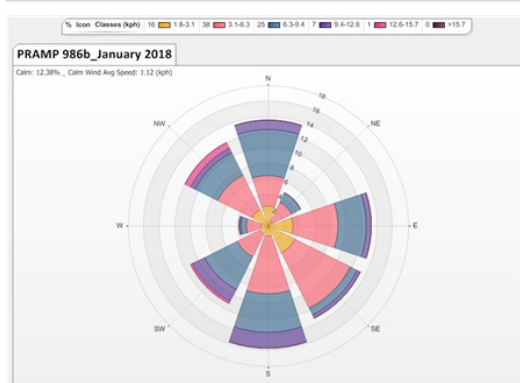
Station	Pollutant	Unit	AVG [Conc]	Uptime	Hourly Max [Conc]	Max Date	WS	WD	# Hrs >172 AAAQO	24-Hr Max [Conc]	24-Hr Avg Max Date	# Days >48 AAAQO
PRAMP - Reno	SO ₂	ppb	0	100.0%	2	Jan 16 Hr11	5.0	211 (SSW)	0	1	Jan 16	0
	TRS	ppb	0.44	99.5%	1.00	Jan 27 Hr8	1.5	205 (SSW)	-	0.56	Jan 23	-
	THC	ppm	2.13	97.3%	4.10	Jan 20 Hr6	1.2	141 (SE)	-	2.44	Jan 23	-
	CH ₄	ppm	2.13	97.3%	4.10	Jan 20 Hr6	1.2	141 (SE)	-	2.44	Jan 23	-
	NMHC	ppm	0.00	97.3%	0.07	Jan 13 Hr8	3.7	191 (S)	-	0.01	Jan 13	-
	WS	kph	0.7	100.0%	17.7	Jan 8 Hr10	17.7	10 (N)	-	10.7	Jan 21	-
	WD	degree	194 (SSW)	100.0%	-	-	-	-	-	-	-	-
	RH	%	73	100.0%	88	Jan 4 Hr7	3.3	192 (S)	-	86	Jan 22	-
	BP	mbar	938	100.0%	959	Jan 28 Hr2	2.6	200 (SSW)	-	955	Jan 28	-
	AmbTPX	°C	-12.7	100.0%	3.4	Jan 18 Hr10	5.0	230 (SW)	-	0.4	Jan 18	-
	StnTPX	°C	22.2	100.0%	23.0	Jan 19 Hr18	4.0	245 (WSW)	-	22.7	Jan 18	-



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

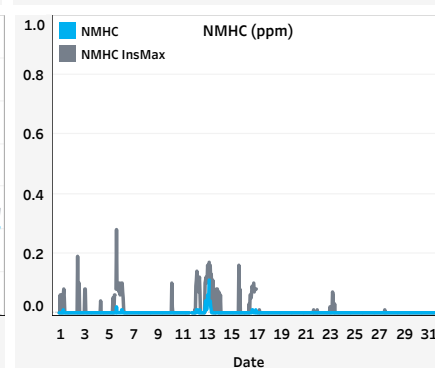
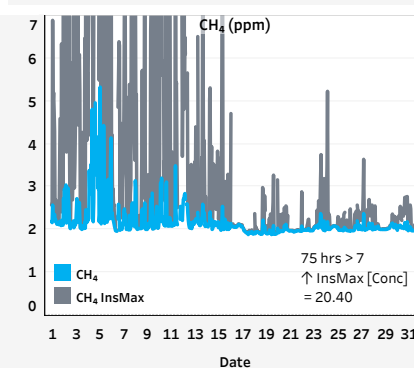
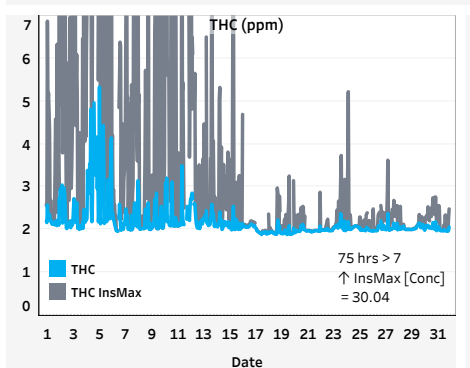
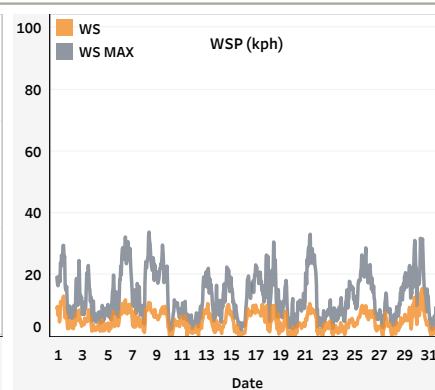
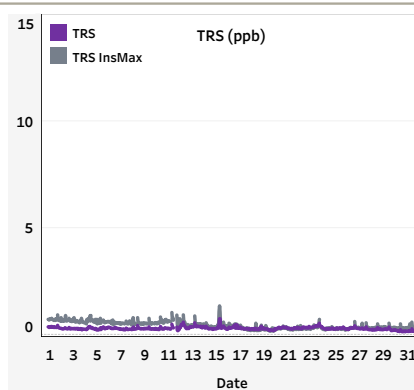
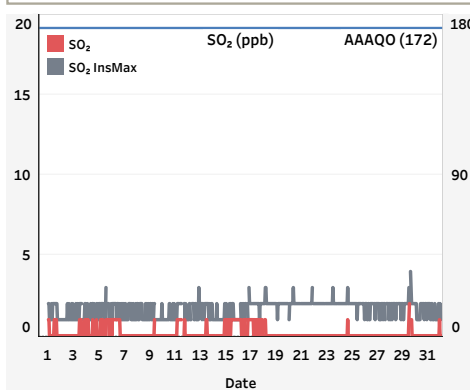
- All data has been baseline corrected. Data may be subject to change after Level 3 data review.
- All compliance parameters were within the Alberta Ambient Air Quality Objectives and Guidelines (AAAQO, 2017).
- The operational times for all continuous ambient air analyzers, meteorological systems and 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 - 986b	SO ₂	ppb	0	99.7%	2	Jan 29 Hr12	9.1	121 (ESE)	0	1	Jan 6	0
	TRS	ppb	0.32	99.7%	0.77	Jan 15 Hr9	1.7	67 (ENE)	-	0.41	Jan 23	-
	THC	ppm	2.17	99.9%	5.33	Jan 5 Hr2	3.1	102 (E)	-	3.21	Jan 4	-
	CH ₄	ppm	2.17	99.9%	5.33	Jan 5 Hr2	3.1	102 (E)	-	3.21	Jan 4	-
	NMHC	ppm	0.00	99.9%	0.11	Jan 13 Hr5	10.8	198 (SSW)	-	0.01	Jan 12	-
	WS	kph	0.5	99.9%	15.6	Jan 30 Hr13	15.6	323 (NW)	-	8.7	Jan 30	-
	WD	degree	176 (S)	99.9%	-	-	-	-	-	-	-	-
	RH	%	78	99.9%	97	Jan 18 Hr23	1.0	307 (NW)	-	91	Jan 20	-
	BP	mbar	942	99.9%	963	Jan 28 Hr3	0.5	168 (SSE)	-	960	Jan 28	-
	AmbTPX	°C	-13.4	99.9%	3.1	Jan 18 Hr16	8.4	239 (WSW)	-	-0.3	Jan 18	-
	StnTPX	°C	23.2	99.9%	24.4	Jan 19 Hr15	3.2	320 (NW)	-	23.7	Jan 30	-



Canister Events
None Year to Date

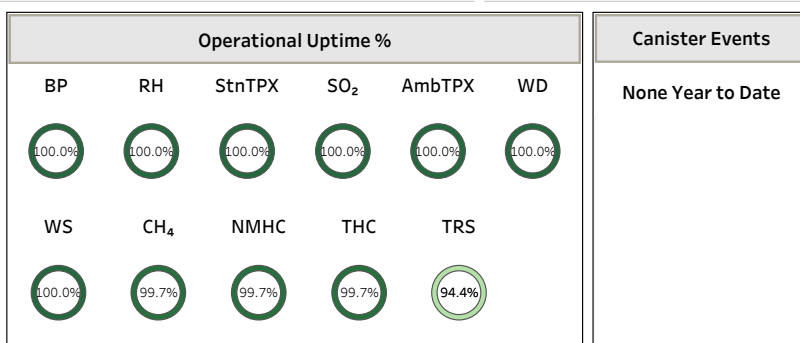
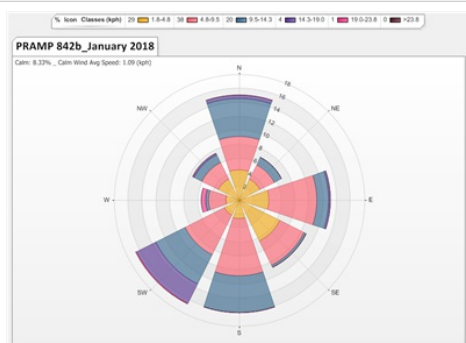
Operational Summary SO₂/TRS: Uptime was 99.7% = 2 hrs downtime. THC/CH₄/NMHC & Meteorological Parameters: Uptime was 99.9% = 1 hr downtime. On January 16, an alternate datalogger (DrDas Ultimate) was installed and tested on the channels at hours 17 and 19. The Ultimate datalogger is currently running in parallel with the resident (ESC) datalogger.



Peace River Area Monitoring Program Committee - 842b Station January 2018 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 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 - 842b	SO ₂	ppb	0	100.0%	1	Jan 1 Hr0	3.8	185 (S)	0	1	Jan 1	0
	TRS	ppb	0.19	94.4%	0.45	Jan 11 Hr23	2.7	83 (E)	-	0.27	Jan 16	-
	THC	ppm	2.05	99.7%	2.46	Jan 12 Hr2	3.9	76 (ENE)	-	2.23	Jan 12	-
	CH ₄	ppm	2.05	99.7%	2.46	Jan 12 Hr2	3.9	76 (ENE)	-	2.23	Jan 12	-
	NMHC	ppm	0.00	99.7%	0.01	Jan 3 Hr18	12.0	218 (SW)	-	0.00	Jan 1	-
	WS	kph	1.1	100.0%	23.7	Jan 6 Hr12	23.7	250 (WSW)	-	15.2	Jan 6	-
	WD	degree	208 (SSW)	100.0%	-	-	-	-	-	-	-	-
	RH	%	81	100.0%	95	Jan 4 Hr19	5.2	139 (SE)	-	93	Jan 22	-
	BP	mbar	943	100.0%	965	Jan 28 Hr5	0.5	28 (NNE)	-	961	Jan 28	-
	AmbTPX	°C	-12.9	100.0%	2.7	Jan 18 Hr14	15.9	206 (SSW)	-	-0.1	Jan 18	-
	StnTPX	°C	21.0	100.0%	22.7	Jan 3 Hr19	7.4	218 (SW)	-	21.6	Jan 4	-



Operational Summary - TRS: Uptime was 94.4% = 42 hrs downtime. Repeat span verification (IZS) and an as-found response check on Jan 3 to assess a low span drift (-4 hrs). Shut-down calibration attempted on Jan 4 but the analyzer was slow to stabilize. The scrubber material was renewed, followed by overnight column conditioning. Post-repair calibration on Jan 5 restored the analyzer (-35 hrs). Data was invalidated back to as-found check on Jan 3. As-found response check completed on Jan 12 to assess low span drift (-3 hrs). **THC/CH₄/NMHC:** Uptime was 99.7% = 2 hrs downtime. Analyzer firmware crash on Jan 12 (-1 hr). The pressure sensor for the VOC canister sampler was installed. Span and H₂ fuel gas cylinders were replaced followed by an IZS (-1 hr).

