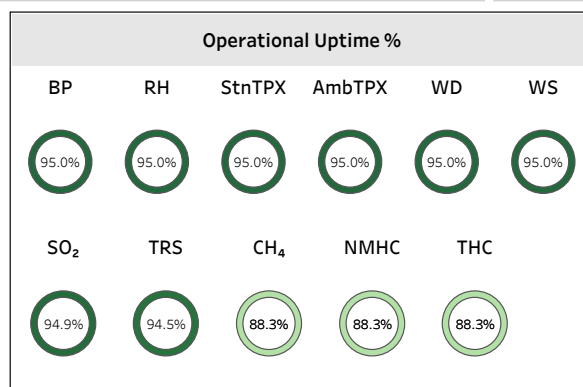
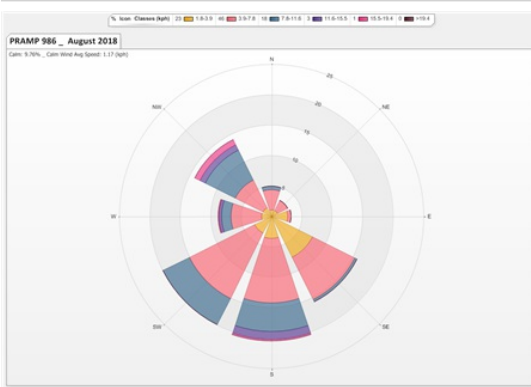


# Peace River Area Monitoring Program Committee - 986b Station August 2018 Monthly Report Summary

- All data has been baseline corrected.
- All compliance parameters were within the Alberta Ambient Air Quality Objectives and Guidelines (AAAQO, 2017).
- With the exception of THC/CH<sub>4</sub>/NMHC, the operational times for all continuous ambient air analyzers, meteorological systems and data acquisition systems were above 90%.

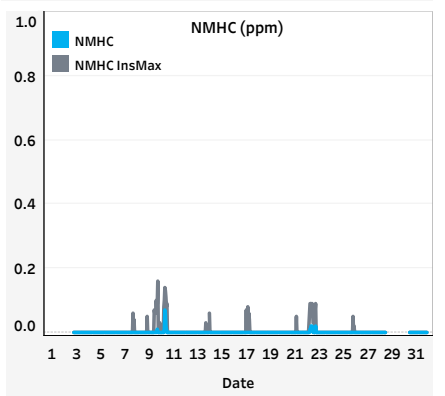
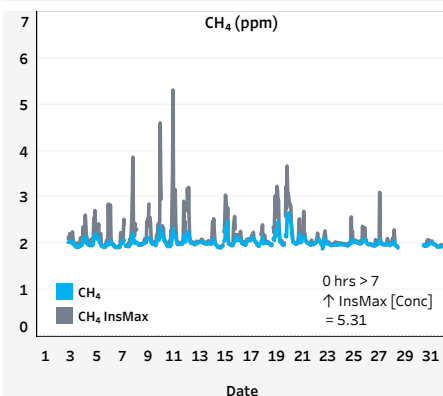
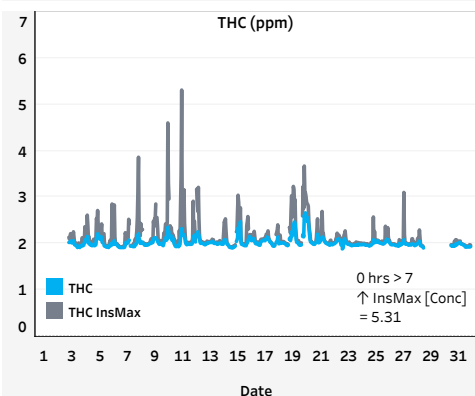
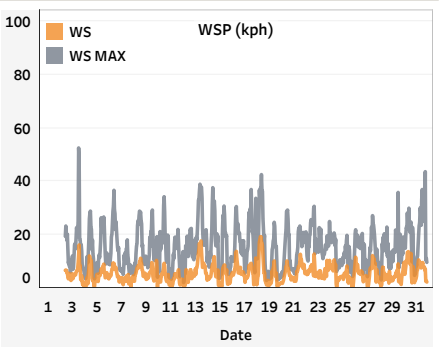
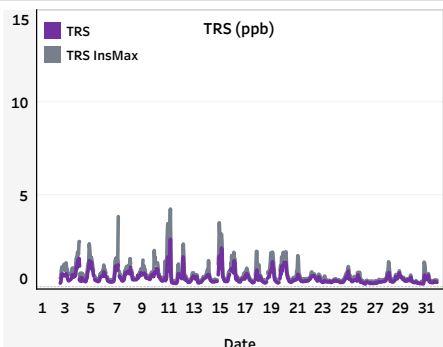
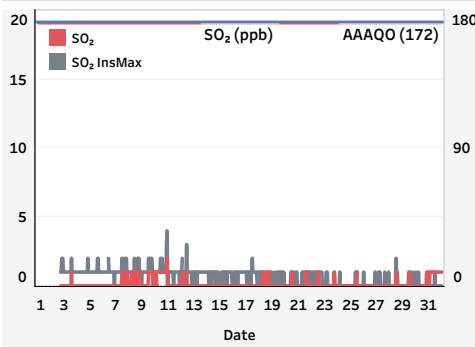
Station	Pollutant	Unit	AVG [Conc]	Uptime	Hourly Max [Conc]	Max Date	WS	WD	# Hrs >172 AAAQO	24-Hr Max [Conc]	24-Hr Avg Max Date	# Days >48 AAAQO
PRAMP - 986b	SO <sub>2</sub>	ppb	0	94.9%	2	Aug 10 Hr21	2.6	317 (NW)	0	1	Aug 10	0
	TRS	ppb	0.53	94.5%	2.63	Aug 11 Hr7	1.6	4 (N)	-	0.84	Aug 15	-
	THC	ppm	2.02	88.3%	2.66	Aug 20 Hr0	1.6	98 (E)	-	2.19	Aug 20	-
	CH <sub>4</sub>	ppm	2.02	88.3%	2.66	Aug 20 Hr0	1.6	98 (E)	-	2.19	Aug 20	-
	NMHC	ppm	0.00	88.3%	0.07	Aug 10 Hr9	5.1	237 (SW)	-	0.01	Aug 10	-
	WS	kph	2.2	95.0%	19.3	Aug 18 Hr10	19.3	298 (WNW)	-	9.6	Aug 13	-
	WD	degree	227 (SW)	95.0%	-	-	-	-	-	-	-	-
	RH	%	72	95.0%	101	Aug 23 Hr21	7.1	324 (NW)	-	95	Aug 26	-
	BP	mbar	940	95.0%	954	Aug 20 Hr0	1.6	98 (E)	-	952	Aug 19	-
	AmbTPX	°C	15.2	95.0%	28.5	Aug 22 Hr16	7.3	240 (WSW)	-	21.4	Aug 2	-
	StnTPX	°C	22.8	95.0%	25.2	Aug 11 Hr8	3.5	14 (NNE)	-	23.6	Aug 10	-



### Canister Events

None Year to Date

**Operational Summary\_ All Parameters:** Station upgrade concluded on Aug 2 to install new trailer and replace ESC 8832 datalogger with an Ultimate unit. **SO<sub>2</sub>:** Uptime was 94.9% = 38 hrs of downtime. Installation calibration performed on Aug 2, following station upgrade (-38 hrs). **TRS:** Uptime was 94.5% = 41 hrs of downtime. Installation calibration performed on Aug 2, following station upgrade (-38 hrs). Additional IZS on Aug 4 and an As-Found response check on Aug 8 performed to address a biased low span drift (-3 hrs). **THC/CH<sub>4</sub>/NMHC:** Uptime was 88.3% = 87 hrs of downtime (AEP reference # 343452). Installation calibration performed on Aug 2, following station upgrade (-40 hrs). Shut-down calibration on Aug 29 did not meet stability requirements due to poor injections. Data discarded back to the point of failed performance on Aug 28 @ 14:00 (-47 hrs). **Canister:** No events recorded this month. **Met Parameters:** Uptime was 95.0% = 37 hrs of downtime (station upgrade).

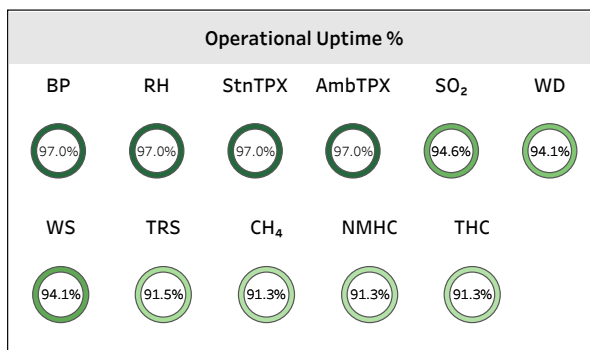
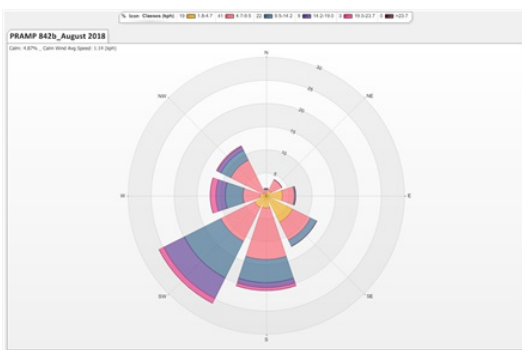


\* Instantaneous hourly maximum data was not baseline-corrected and is considered raw data.

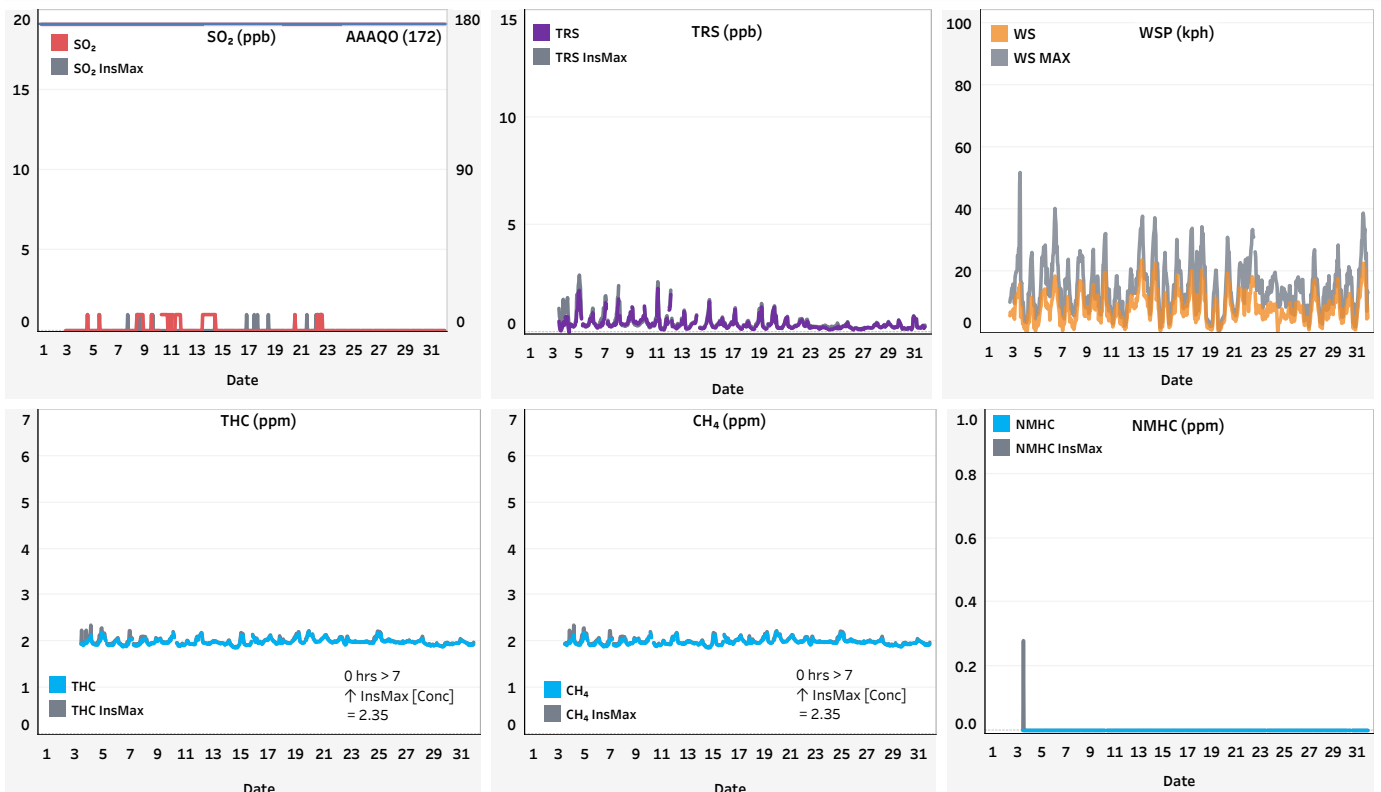
# Peace River Area Monitoring Program Committee - 842b Station August 2018 Monthly Report Summary

- 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	94.6%	1	Aug 4 Hr13	11.4	315 (NW)	0	1	Aug 13	0
	TRS	ppb	0.38	91.5%	2.05	Aug 11 Hr6	2.7	70 (ENE)	-	0.75	Aug 5	-
	THC	ppm	1.99	91.3%	2.21	Aug 20 Hr1	1.8	110 (ESE)	-	2.06	Aug 20	-
	CH <sub>4</sub>	ppm	1.99	91.3%	2.21	Aug 20 Hr1	1.8	110 (ESE)	-	2.06	Aug 20	-
	NMHC	ppm	0.00	91.3%	0.00	Aug 3 Hr13	12.7	249 (WSW)	-	0.00	Aug 3	-
	WS	kph	4.8	94.1%	23.6	Aug 13 Hr14	23.6	201 (SSW)	-	14.5	Aug 13	-
	WD	degree	224 (SW)	94.1%	-	-	-	-	-	-	-	-
	RH	%	70	97.0%	96	Aug 24 Hr3	7.2	320 (NW)	-	93	Aug 1	-
	BP	mbar	941	97.0%	955	Aug 20 Hr0	1.4	99 (E)	-	953	Aug 19	-
	AmbTPX	°C	14.7	97.0%	27.7	Aug 22 Hr15	17.4	255 (WSW)	-	20.0	Aug 9	-
	StnTPX	°C	23.4	97.0%	30.3	Aug 7 Hr3	0.8	223 (SW)	-	25.7	Aug 5	-



**Operational Summary\_ All Parameters:** Station upgrade concluded on Aug 3 to install new trailer and replace ESC 8832 datalogger with an Ultimate unit. **SO<sub>2</sub>:** Uptime was 94.6% = 40 hrs of downtime. Installation calibration performed on Aug 2, following station upgrade (-40 hrs). **TRS:** Uptime was 91.5% = 63 hrs of downtime. Installation calibration performed on Aug 3, following station upgrade (-57 hrs). Additional IZS on Aug 12 and repeat calibration on Aug 14 to address biased low span drift (-6 hrs). **THC/CH<sub>4</sub>/NMHC:** Uptime was 91.3% = 65 hrs of downtime. Installation calibration performed on Aug 3, following station upgrade (-57 hrs). Analyzer was placed offline for HVAC maintenance on Aug 10 (-3 hrs). Fuel gas replaced on Aug 23, followed by repeat IZS (-1 hr). Daily IZS failed to execute on Aug 30. Corrective actions were performed (-4 hrs). **Canister:** No events recorded this month. **Met Parameters:** Uptime was 97.0% = 22 hrs of downtime (station upgrade).

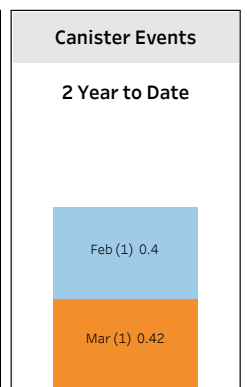
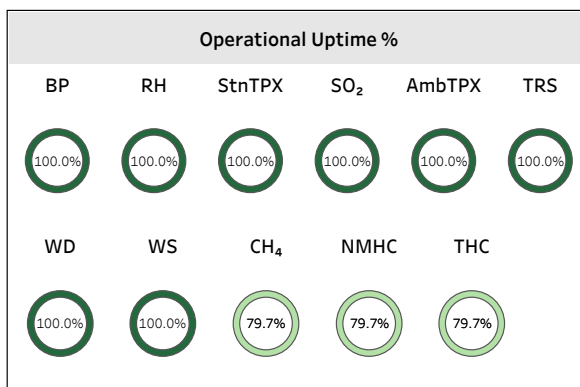
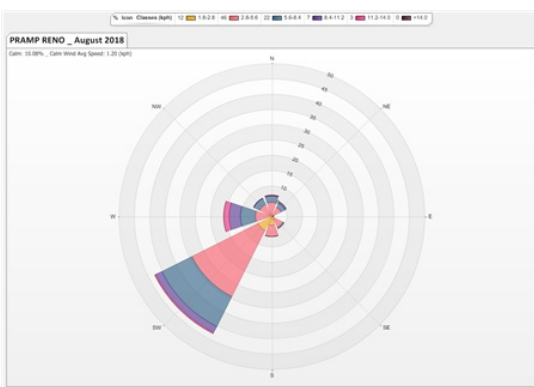


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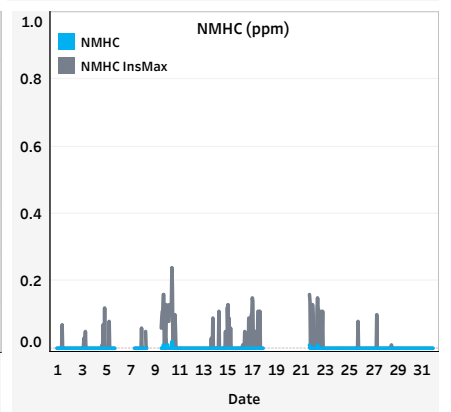
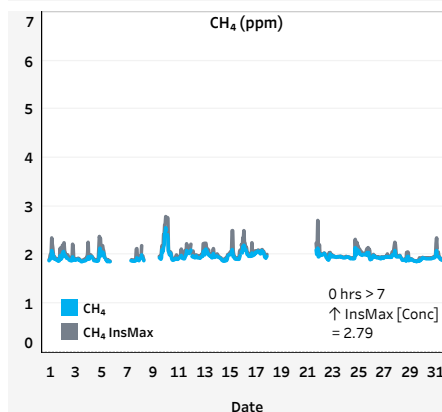
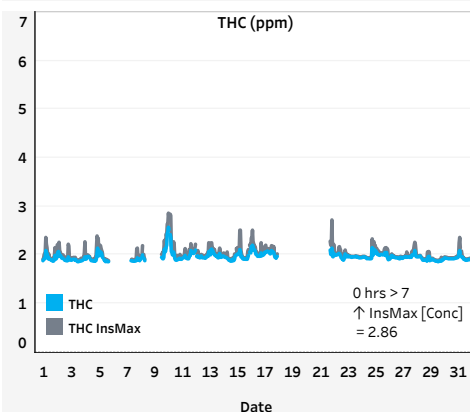
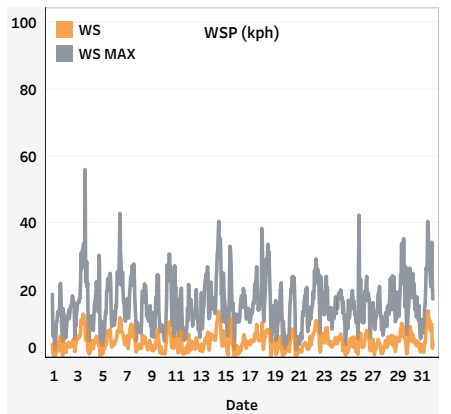
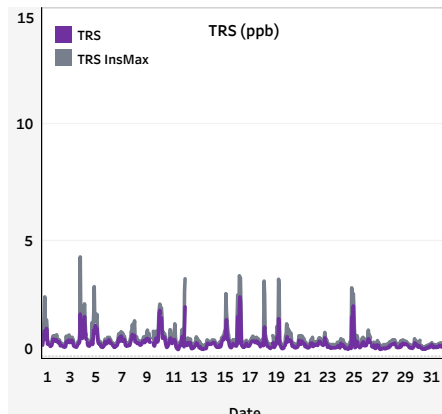
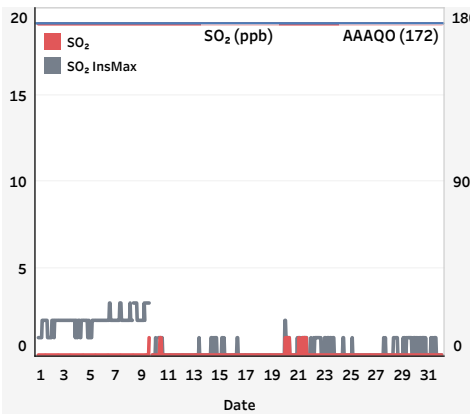
## Peace River Area Monitoring Program Committee - Reno Station August 2018 Monthly Report Summary

- All data has been baseline corrected.
- All compliance parameters were within the Alberta Ambient Air Quality Objectives and Guidelines (AAAQO, 2017).
- With the exception of THC/CH<sub>4</sub>/NMHC, 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%	1	Aug 9 Hr12	7.0	231 (SW)	0	0	Aug 1	0
	TRS	ppb	0.59	100.0%	2.58	Aug 16 Hr7	3.1	153 (SSE)	-	0.91	Aug 10	-
	THC	ppm	1.96	79.7%	2.57	Aug 10 Hr2	1.5	193 (S)	-	2.09	Aug 10	-
	CH <sub>4</sub>	ppm	1.96	79.7%	2.56	Aug 10 Hr2	1.5	193 (S)	-	2.08	Aug 10	-
	NMHC	ppm	0.00	79.7%	0.02	Aug 10 Hr11	9.3	261 (W)	-	0.00	Aug 1	-
	WS	kph	2.9	100.0%	13.9	Aug 31 Hr13	13.9	251 (WSW)	-	7.8	Aug 14	-
	WD	degree	245 (WSW)	100.0%	-	-	-	-	-	-	-	-
	RH	%	69	100.0%	94	Aug 1 Hr4	0.2	199 (SSW)	-	89	Aug 26	-
	BP	mbar	937	100.0%	951	Aug 20 Hr4	2.6	216 (SW)	-	949	Aug 19	-
	AmbTPX	°C	15.2	100.0%	28.5	Aug 9 Hr16	4.0	224 (SW)	-	20.9	Aug 9	-
	StnTPX	°C	23.1	100.0%	27.9	Aug 9 Hr15	8.2	241 (WSW)	-	24.0	Aug 9	-



**Operational Summary\_ THC/CH<sub>4</sub>/NMHC:** Uptime was 79.7% = 151 hrs of downtime (AEP reference # 343123). Low carrier gas pressure on Aug 5. Cylinder was exchanged on Aug 7, followed by an IZS (-37 hrs). Low fuel gas pressure on Aug 8. Cylinder was exchanged on Aug 9, followed by monthly calibration (-23 hrs). **Canister:** Trigger test on Aug 9. No events recorded this month.



\* Instantaneous hourly maximum data was not baseline-corrected and is considered raw data.