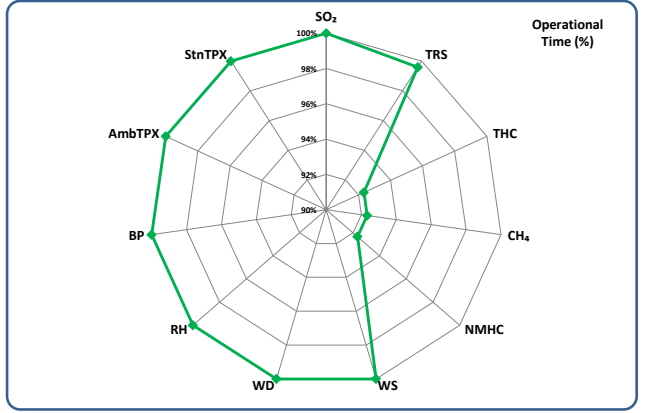
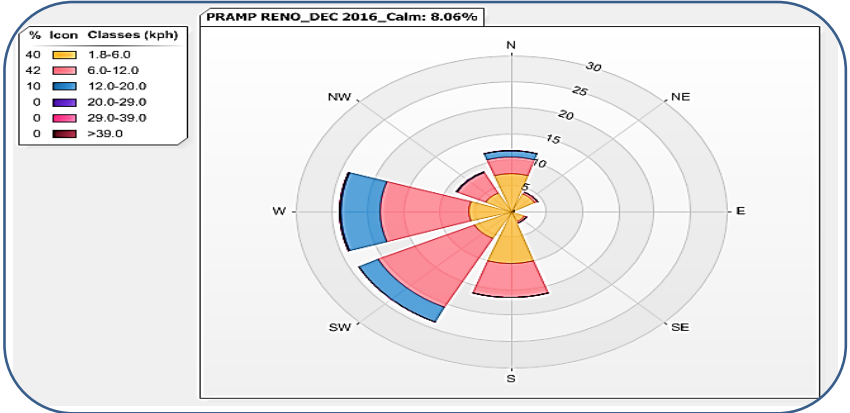
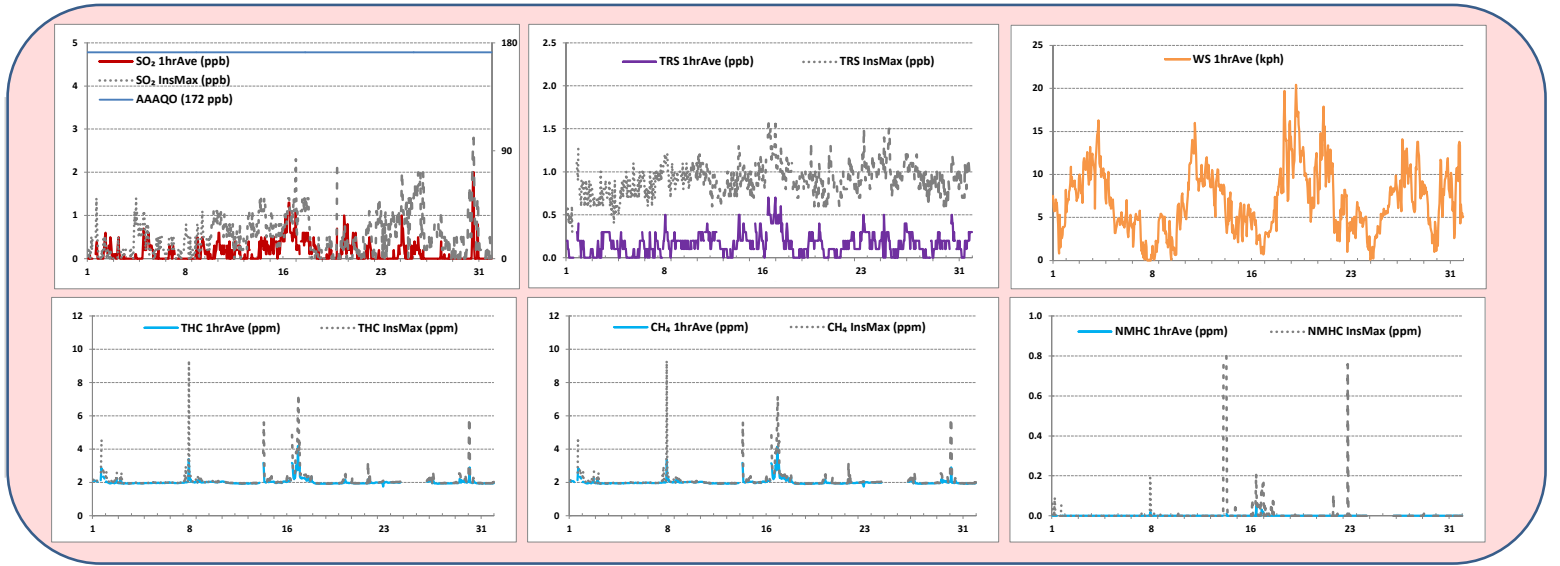


Pollutants		Monthly Records		1-Hour Records					24-Hour Records			
Name	Unit	Avg. Conc.	Uptime	Maximum			AAAQO Objective	Exceed. Hours	Maximum		AAAQO Objective	Exceed. Days
				Conc.	Date	Hour			Conc.	Date		
SO <sub>2</sub>	ppb	0.2	100.0%	2.0	December 30, 30	13, 14	172	0	0.7	December 16	48	0
TRS	ppb	0.2	99.6%	0.7	December 16, 16	10, 23	-	-	0.4	December 16	-	-
THC	ppm	2.03	92.3%	4.19	December 16	20	-	-	2.59	December 16	-	-
CH <sub>4</sub>	ppm	2.02	92.3%	4.15	December 16	20	-	-	2.58	December 16	-	-
NMHC	ppm	0.00	92.3%	0.05	December 16	10	-	-	0.01	December 16	-	-
WS	kph	4.0	100.0%	20.4	December 19	8	-	-	13.8	December 19	-	-
WD	degree	250 (WSW)	100.0%	-	-	-	-	-	-	-	-	-
RH	%	69	100%	89	December 30, 31	VAR, VAR	-	-	82	December 31	-	-
BP	inHg	27.71	100.00%	28.50	December 7, 8	VAR, 0	-	-	28.44	December 7	-	-
AmbTPX	°C	-13.7	100.0%	2.5	December 21	12	-	-	-0.1	December 21	-	-
StnTPX	°C	21.0	100.0%	22.9	December 29	VAR	-	-	22.5	December 20	-	-



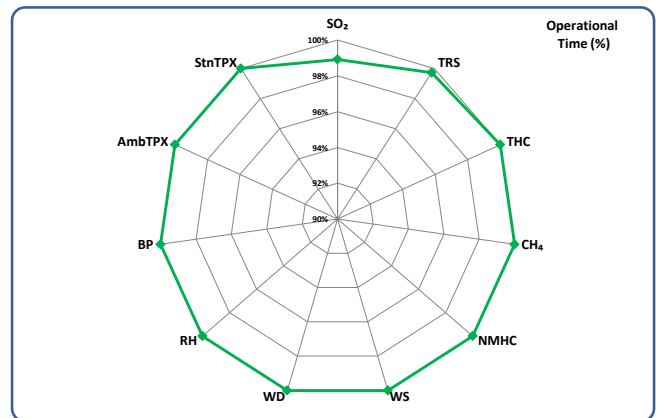
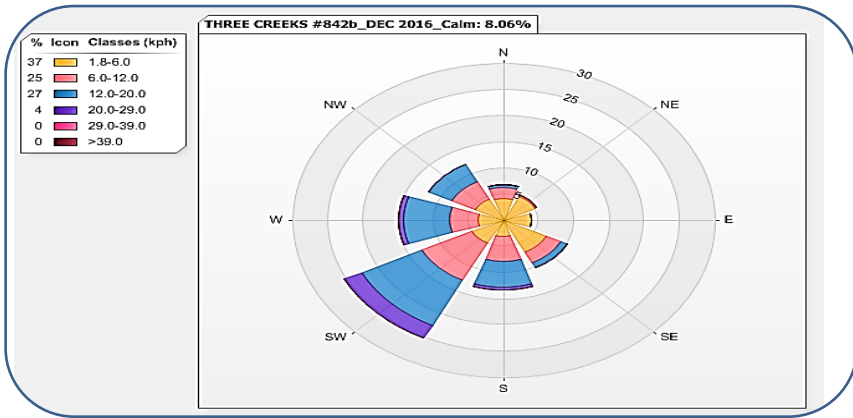
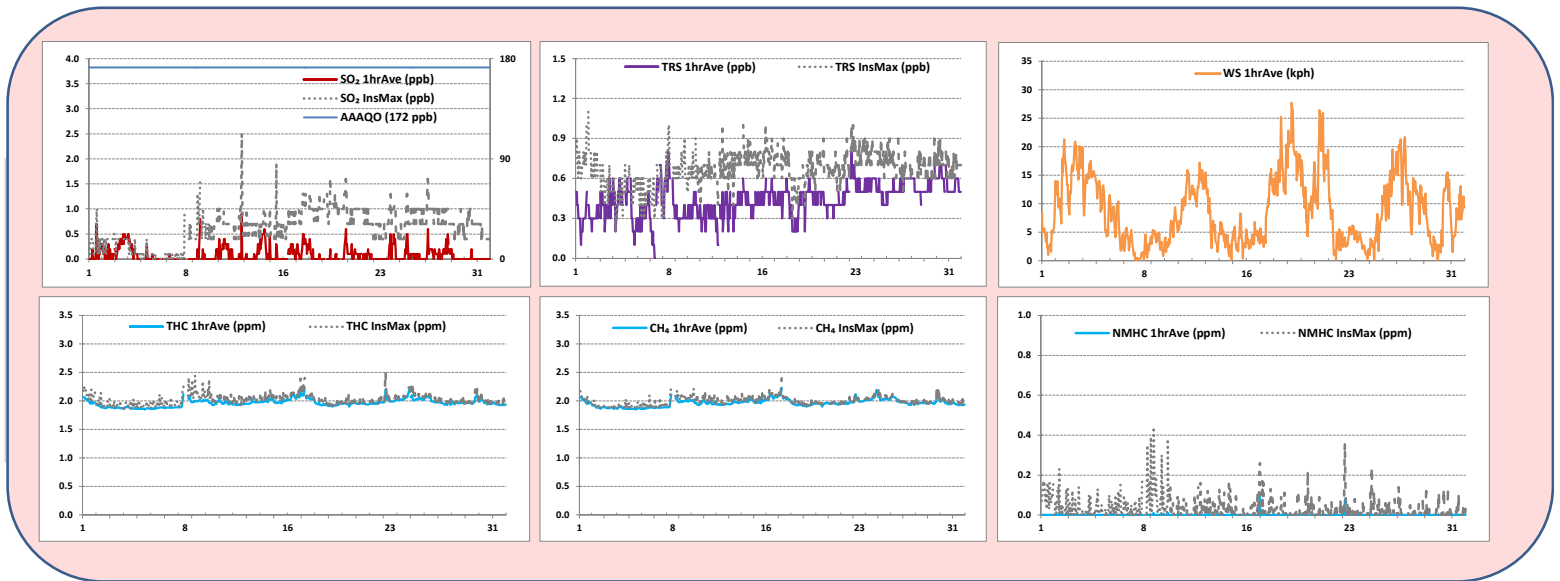
**Monthly Update**

- \* The sampling, collection and reporting of air monitoring data was performed by Maxxam Analytics and complies with the quality assurance practices outlined in the Alberta Air Monitoring Directive (Alberta Environment and Parks, 2016).
- \* All data collected this month were within the objectives outlined in the AMD 2016 and AAAQO 2016.
- \* The operational time for all continuous ambient air analyzers, meteorological systems and data acquisition systems were above 90%.

**Operational Issues**

- **TRS:** Three hours of downtime were recorded between December 8 and 30. The analyzer exhibited a biased low span response, prompting additional quality checks.
- **THC/CH<sub>4</sub>/NMHC:** A total of fifty-seven hours of downtime were recorded this month. One hour was attributed to an operator error that occurred on December 1. Eight hours were recorded due to an intermittent equipment malfunction and the resultant quality checks performed. Forty-eight hours of downtime, recorded between December 24 and December 26, were attributed to a drop in zero air pressure and the resultant quality assurance activities performed.

Pollutants		Monthly Records		1-Hour Records					24-Hour Records			
Name	Unit	Avg. Conc.	Uptime	Maximum			AAAQO Objective	Exceed. Hours	Maximum		AAAQO Objective	Exceed. Days
				Conc.	Date	Hour			Conc.	Date		
SO <sub>2</sub>	ppb	0.1	98.9%	0.9	December 12	19	172	0	0.3	December 3, 14	48	0
TRS	ppb	0.4	99.7%	0.8	December 8, 23	11, 4	-	-	0.6	VAR	-	-
THC	ppm	1.96	100.0%	2.23	December 17	6	-	-	2.07	December 16, 17	-	-
CH <sub>4</sub>	ppm	1.96	100.0%	2.23	December 17	6	-	-	2.07	December 17	-	-
NMHC	ppm	0.00	100.0%	0.11	December 16	23	-	-	0.01	December 16	-	-
WS	kph	4.9	100.0%	27.7	December 19	7	-	-	18.7	December 19	-	-
WD	degree	235 (SW)	100.0%	-	-	-	-	-	-	-	-	-
RH	%	77	100%	95	VAR	VAR	-	-	87	December 31	-	-
BP	inHg	27.84	100.00%	28.65	December 7, 8	VAR, VAR	-	-	28.60	December 7	-	-
AmbTPX	°C	-13.8	100.0%	2.3	December 21	14	-	-	-0.1	December 19	-	-
StnTPX	°C	21.4	100.0%	24.0	December 20	7	-	-	23.0	December 16	-	-



**Monthly Update**

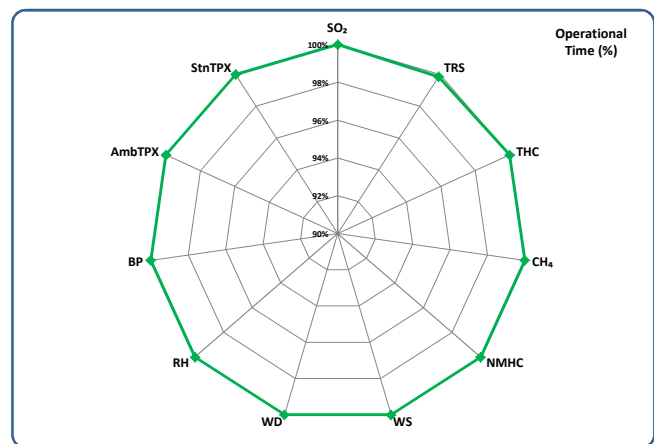
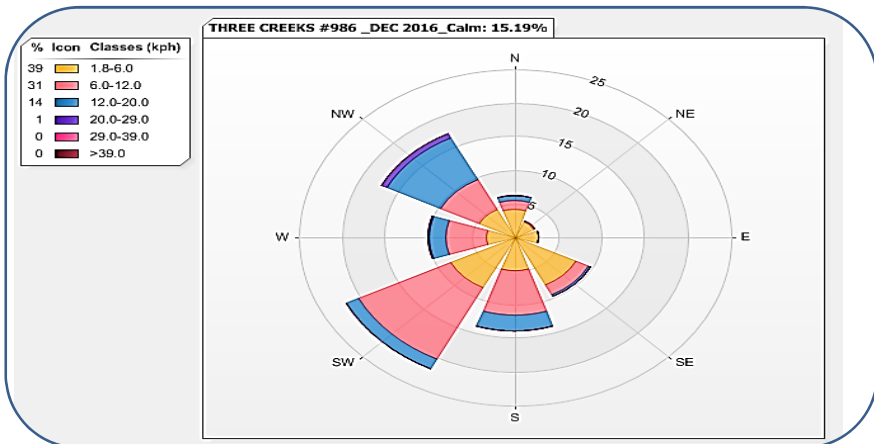
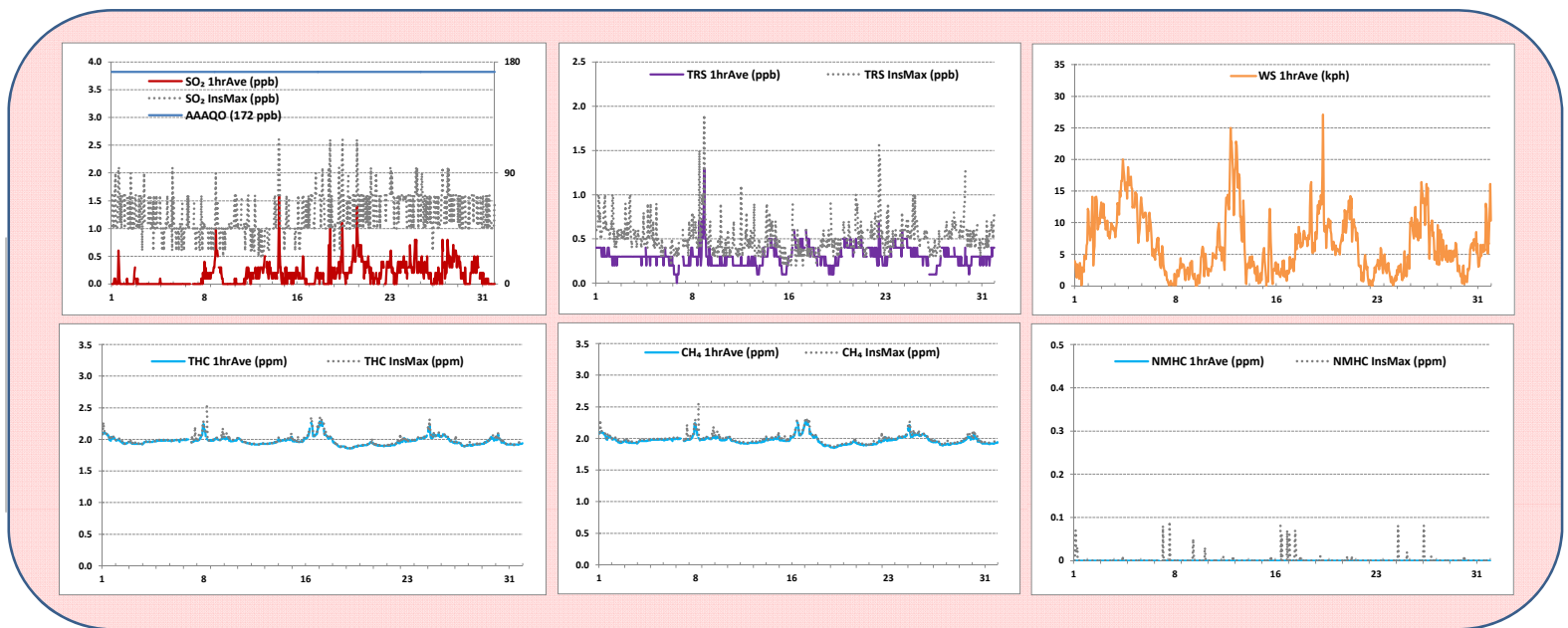
- \* The sampling, collection and reporting of air monitoring data was performed by Maxxam Analytics and complies with the quality assurance practices outlined in the Alberta Air Monitoring Directive (Alberta Environment and Parks, 2016).
- \* All data collected this month were within the objectives outlined in the AMD 2016 and AAAQO 2016.
- \* The operational time for all continuous ambient air analyzers, meteorological systems and data acquisition systems were above 90%.

**Operational Issues**

- **Station Temperature:** On December 6 and 8 the thermostat was adjusted to compensate for winter conditions.
- **SO<sub>2</sub>:** Eight hours of downtime were recorded between December 19 and 20. The analyzer exhibited a biased high span response, prompting additional quality checks and a repeat calibration.
- **TRS:** Two hours of downtime were recorded between December 5 and 7. The analyzer exhibited a biased low span response, prompting additional quality checks.

December 2016 Monthly Report Summary

Pollutants		Monthly Records		1-Hour Records					24-Hour Records			
Name	Unit	Avg. Conc.	Uptime	Maximum			AAAQO Objective	Exceed. Hours	Maximum		AAAQO Objective	Exceed. Days
				Conc.	Date	Hour			Conc.	Date		
SO <sub>2</sub>	ppb	0.2	100.0%	1.6	December 14	13	172	0	0.5	December 20, 28	48	0
TRS	ppb	0.3	99.9%	1.3	December 9	10	-	-	0.4	VAR	-	-
THC	ppm	1.98	100.0%	2.28	December 17, 17	1, 4	-	-	2.11	December 16, 17	-	-
CH <sub>4</sub>	ppm	1.98	100.0%	2.28	December 17, 17	1, 4	-	-	2.11	December 16, 17	-	-
NMHC	ppm	0.00	100.0%	0.00	ALL	ALL	-	-	0.00	ALL	-	-
WS	kph	3.0	100.0%	27.1	December 19	11	-	-	14.1	December 4	-	-
WD	degree	256 (WSW)	100.0%	-	-	-	-	-	-	-	-	-
RH	%	72	100%	93	VAR	VAR	-	-	86	December 31	-	-
BP	inHg	27.82	100.00%	28.68	December 8	VAR	-	-	28.60	December 7	-	-
AmbTPX	°C	-14.4	100.0%	2.7	December 21	14	-	-	0.2	December 19	-	-
StnTPX	°C	21.4	100.0%	22.8	December 1	15	-	-	22.0	December 3	-	-



**Monthly Update**

\* The sampling, collection and reporting of air monitoring data was performed by Maxxam Analytics and complies with the quality assurance practices outlined in the Alberta Air Monitoring Directive (Alberta Environment and Parks, 2016).  
 \* All data collected this month were within the objectives outlined in the AMD 2016 and AAAQO 2016.  
 \* The operational time for all continuous ambient air analyzers, meteorological systems and data acquisition systems were above 90%.

**Operational Issues**

• TRS: One hour of downtime was recorded on December 6. The analyzer exhibited a biased high span response, prompting an additional quality check.