2020 Q1 (January-March)
Air Quality Monitoring Results

FORT AIR PARTNERSHIP
We Monitor the Air You Breathe

Air Quality Health Index (AQHI) Ratings

The AQHI is calculated by the Government of Alberta using data collected at FAP air monitoring stations. The AQHI is a measure of air quality as it pertains to human health. AQHI levels are low, moderate, high or very high. Risk to health increases as the index level rises. Go to our website's AQHI page for more information. Seven of FAP's 10 continuous air monitoring stations monitor substances whereby the AQHI can be calculated.

FAP – 2020 Q1		Risk Level (% of time in each)			
Station Name	Hours Monitored	Low	Moderate	High	Very High
Bruderheim	2,112	84.23%	15.67%	0.09%	-
Chipman	2,073	95.90%	4.10%	-	-
Elk Island	2,082	96.06%	3.94%	-	-
Fort Saskatchewan	2,053	84.36%	15.25%	0.39%	-
Gibbons	2,058	80.47%	19.48%	0.05%	-
Lamont County	2,100	96.33%	3.67%	-	-
Redwater	1,954	92.48%	7.52%	-	-
Total hours	**14,432**	**12,985**	**1,436**	**11**	**-**

Hours with a High or Very High Risk AQHI Rating

FAP Continuous Air Quality Monitoring Station															
Event Dates	Bruderheim		Chipman		Elk Island		Fort Sask.		Gibbons		Lamont County		Redwater		Total Hours	Attributed Cause
	High Risk	Very High Risk	High Risk	Very High Risk	High Risk	Very High Risk	High Risk	Very High Risk	High Risk	Very High Risk	High Risk	Very High Risk	High Risk	Very High Risk		
Jan. 25	2	-	-	-	-	-	3	-	-	-	-	-	-	-	5	Wintertime inversion
Jan. 26	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	
Jan. 27	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	
Jan. 29	-	-	-	-	-	-	3	-	-	-	-	-	-	-	3	
Total Hours	2	-	-	-	-	-	8	-	1	-	-	-	-	-	11	

Summary of Exceedances

Air quality measurements are compared continuously to both 1 and 24-hour Alberta Ambient Air Quality Objectives (AAAQO). Any exceedance of an AAAQO is reported to the Alberta Government and the likely cause of the exceedance investigated. The following table details what substances exceeded an AAAQO, when they occurred and if it can be determined, the likely cause.

One Hour Exceedances			
Parameter	**Exceedances**	**Date**	**Attributed Cause**
Fine Particulate (PM$_{2.5}$)	1	January 27	Wintertime inversion

24-Hour Exceedances			
Parameter	**Exceedances**	**Date**	**Attributed Cause**
Fine Particulate (PM$_{2.5}$)	7	January 25	Wintertime inversion
	2	January 26	
	1	January 27	
	2	January 28	
	1	January 29	