2021 Q2 (April-June)
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. Normally, seven of FAP's 10 continuous air monitoring stations monitor substances whereby the AQHI can be calculated. However, the portable station was not in operation during this period.

FAP – 2021 Q2		Risk Level (% of time in each)			
Station Name	**Hours Monitored**	**Low**	**Moderate**	**High**	**Very High**
Bruderheim	2,155	98.52%	1.48%	-	-
Elk Island	2,111	99.38%	0.62%	-	-
Fort Saskatchewan	2,099	99.05%	0.95%	-	-
Gibbons	2,132	97.98%	1.97%	0.05%	-
Lamont County	2,150	99.16%	0.84%	-	-
Redwater	2,126	98.68%	1.32%	-	-
Total hours	**12,773**	**12,619**	**153**	**1**	**0**

Hours with a High or Very High Risk AQHI Rating

FAP Continuous Air Quality Monitoring Station														
Event Dates	**Bruderheim**		**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		
Apr 16	-	-	-	-	-	-	1	-	-	-	-	-	**1**	Undetermined
Total Hours	-	-	-	-	-	-	1	-	-	-	-	-	**1**	

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	April 16	Undetermined
Hydrogen Sulphide (H_2S)	6	June 4	Natural due to wetlands
	2	June 27 & 29	

24-Hour Exceedances			
Parameter	**Exceedances**	**Date**	**Attributed Cause**
Hydrogen Sulphide (H_2S)	1	June 4	Natural due to wetlands