



Strathcona County

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Who We Are

- Independent, transparent, non-profit, multi-stakeholder group. Established in 1997.
- Board has public, industry and government representation.
- Funded by industry, province and municipalities.
- Mission: *Operate a regional network to monitor and report on credible and comprehensive ambient air quality information.*



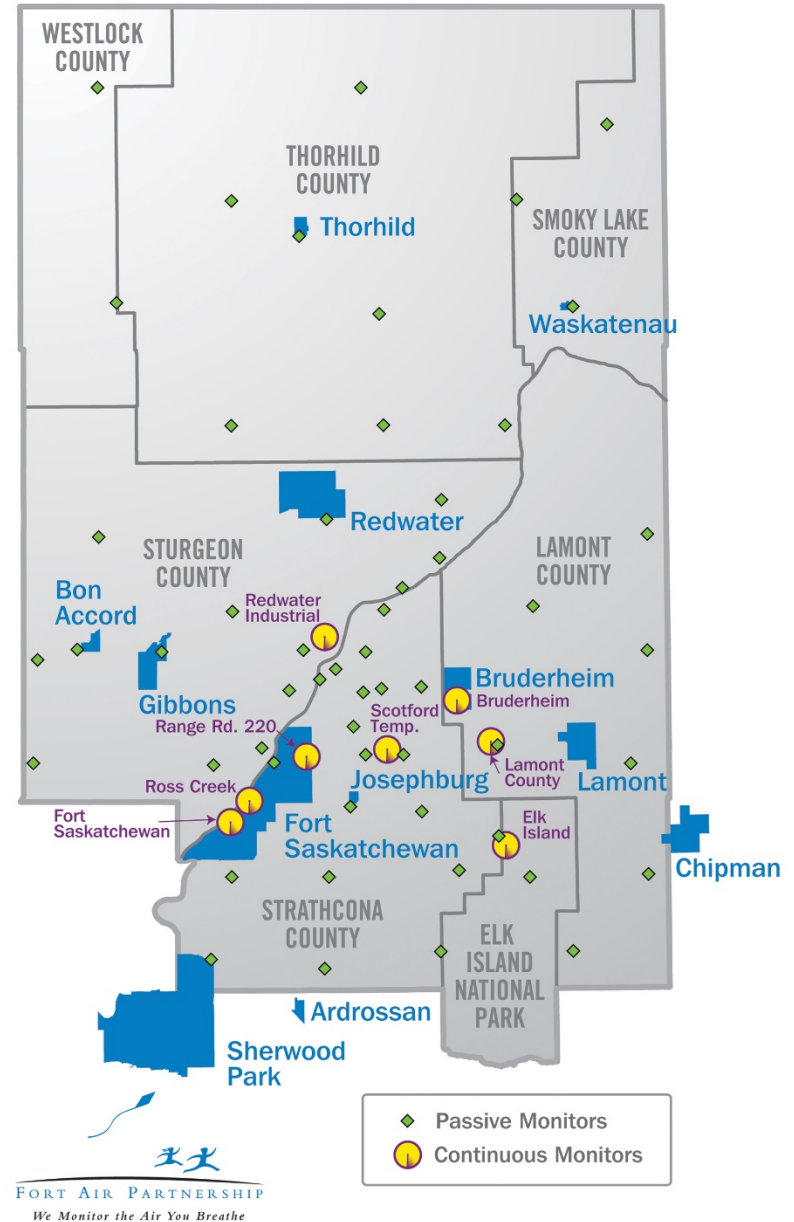
Network

Boundary: 4500 km²

Monitoring Sites:

- 8 continuous stations
 - expanding to 9 in 2016
 - portable planned for 2016
- 57 passive sites

FORT AIR PARTNERSHIP AIRSHED MONITORING NETWORK



What Airsheds Enable

- Everyone has access to the same high quality data.
- Decisions are made based on a collective dataset.
- Everyone receives the same messaging about air quality.
- Discussions include all interested stakeholder parties.
- Decisions are made by consensus.
- This allows the implementation of actions not possible if groups work in silos.



Monitoring Plan Implementation Update

A. Gibbons Monitoring Station

B. Portable Monitoring Station

C. Redwater Site Selection Project

D. Volatile Organic Compound Project



Current Activities: Alberta Airsheds Council (AAC)

- AAC represents all nine Airsheds in Alberta
 - Fort Air Partnership and Alberta Capital Airshed current co-Chairs of the Council
 - AAC and Alberta's Environmental Monitoring, Evaluation and Reporting Agency (AEMERA) are working together to develop a provincial air monitoring system.
 - Filling monitoring gaps
 - Building a sustainable funding formula
 - AAC is also working collaboratively with other policy groups.



Current Activities: Canadian Ambient Air Quality Standards report on ozone and particulate matter (PM_{2.5}) for Alberta

- CAAQS report used data collected by Airsheds.
- CAAQS is a federal standard and reports against annual and 24 hour standards using three year averages. This is meant to inform long term management strategies for a region.
- FAP reports against one hour and 24 hour provincial standards and provides data required to calculate a real-time Air Quality Health Index.



FAP Particulate Matter Exceedances

(out of 8766 hours in a year)

	2015		2014		2013		2012		2011	
	1-hr	24-hr	1-hr	24-hr	1-hr	24-hr	1-hr	24-hr	1-hr	24-hr
Bruderheim	33	4	1	5	3	5	19	4	22	6
Elk Island	17	2	0	1	0	0	0	0	3	1
Fort Saskatchewan	27	6	9	3	8	4	3	3	10	5
Lamont County	38	7	2	2	0	1	3	0	3	0
Redwater Industrial	32	4	1	1	4	1	3	0	9	2
Total	148	23	13	12	15	11	28	7	47	14

**Particulate Matter emission sources include industry, vehicles, home heating, natural sources such as forest fires. Regional weather events such as temperature inversions can also lead to exceedances.*

Current Activities: Capital Region Fine Particulate Matter Response Plan

- FAP involved in developing and implementing Capital Region Fine Particulate Matter Response Plan, along with two other Airsheds, industry, municipalities and the provincial government.
- Goal: Reduce and maintain ambient fine particulate matter below the Canadian Ambient Air Quality Standards Exceedance Level at all monitoring stations within the Capital Region.
- This will be done by managing emissions that contribute to the formation of fine particulate matter. The response plan includes actions for both government and stakeholders.



What is the Air Quality Health Index?



- Information tool to help Albertans
 - understand what air quality means to their health
 - manage exposure to air pollution
- Reports the risk to your health on a scale of 1 to 10
 - the higher the number, the higher the health risk
- Reported across Canada
- Uses 3-hour average concentrations of fine particulate matter (PM_{2.5}), ozone and nitrogen dioxide
- Provides an air quality forecast for today, tonight and tomorrow

Air Quality Health Index: 2015

Station Name	Low Risk	Moderate Risk	High Risk	Very High Risk
	%	%	%	%
Bruderheim	94.83	4.86	0.19	0.12
Elk Island	97.52	2.21	0.14	0.13
Fort Saskatchewan	92.63	6.77	0.43	0.17
Lamont County	93.60	5.96	0.25	0.19

Air Quality Health Index: 2015 events

High or Very High Risk AQHI Events/Hours

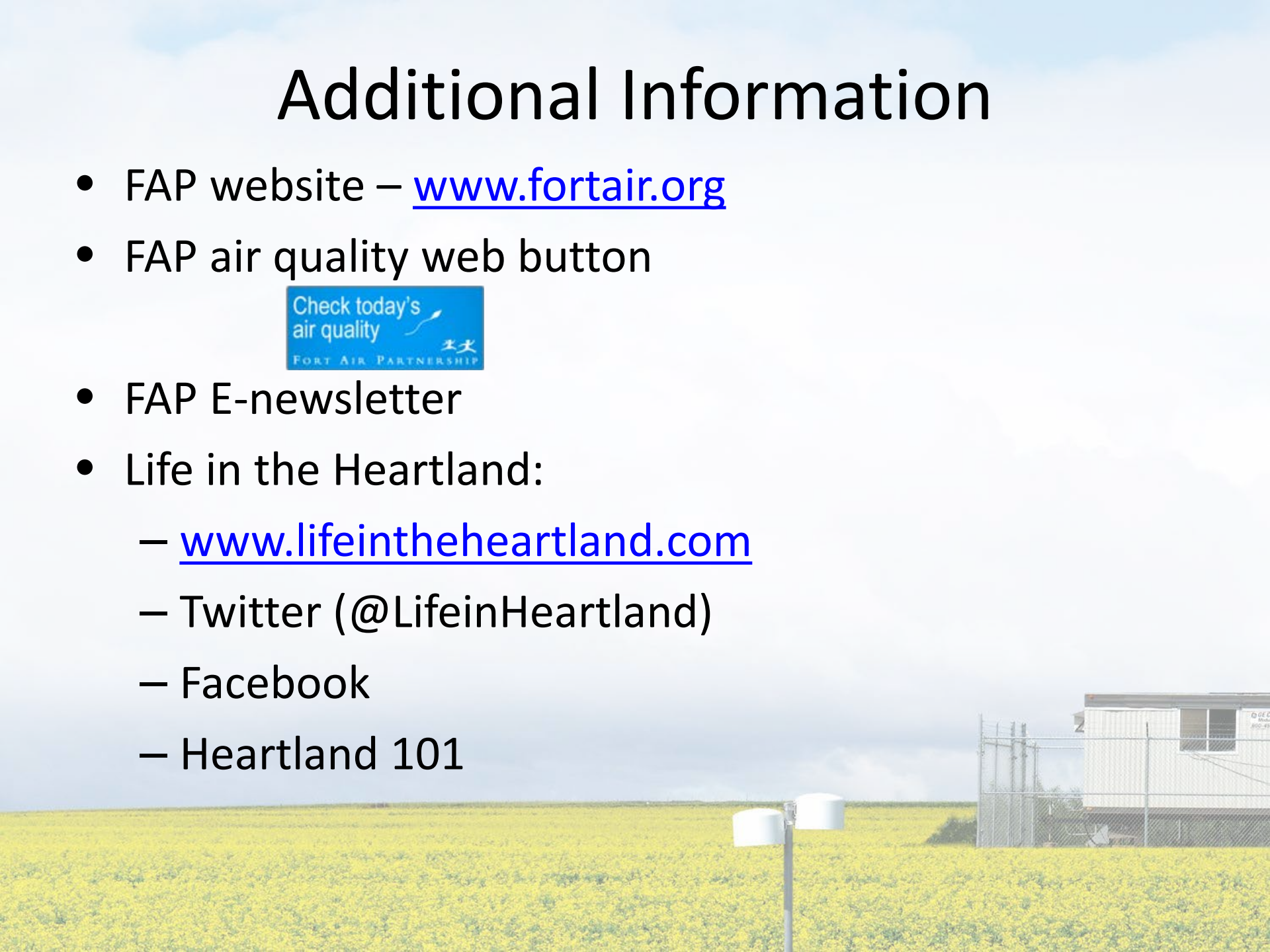
Probable Cause	Bruderheim	Elk Island	Fort Sask.	Lamont County	<i>Total Hours</i>
Summertime smog	1		2	6	<i>9</i>
Forest fire smoke	24	19	24	29	<i>96</i>
Total Hours	25	19	26	35	<i>105</i>

Additional Information

- FAP website – www.fortair.org
- FAP air quality web button



- FAP E-newsletter
- Life in the Heartland:
 - www.lifeintheheartland.com
 - Twitter (@LifeinHeartland)
 - Facebook
 - Heartland 101



www.fortair.org

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