ATTACHMENT 'A': CALGARY REGION AIRSHED ZONE PRESENTATION

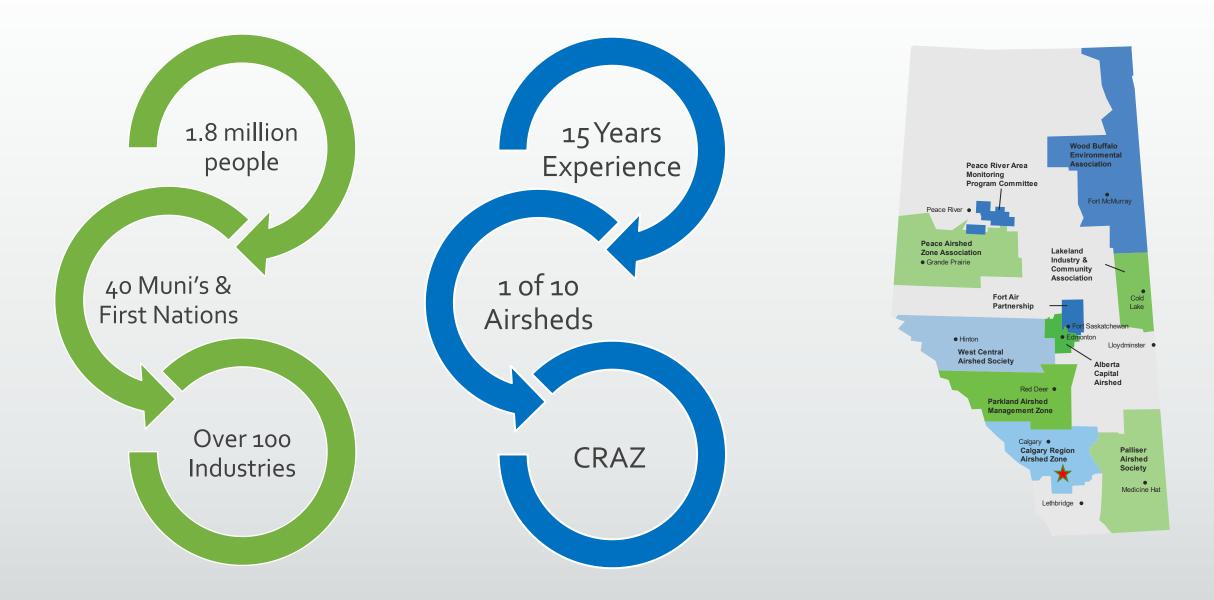




Calgary Region Airshed Zone

Jill Bloor, Executive Director

Tanya Carlson, Engagement Program Manager



CRAZ is comprised of three sectors and expertise:



Public and Non-Government Organizations (NGOs)

"Measurement is the first step that leads to control and eventually to improvement. If you can't measure something, you can't understand it. If you can't understand it, you can't control it. If you can't control it, you can't improve it." — H James Harrington

Continuous Monitoring

- Three (3) continuous ambient air monitoring stations:
 - Calgary Northwest
 - Calgary Inglewood
 - Calgary Southeast
- 4th monitoring station in Airdrie being operated by AEP
- Portable Air Monitoring Laboratory (PAML)
- Purple Air Sensors, region wide

Real-time air quality data for continuous monitoring stations is available on the CRAZ website: <u>https://craz.ca/monitoring</u>



What we monitor

Parameter	Calgary Inglewood	Calgary Southeast	Calgary Varsity	PAML
Sulphur dioxide (SO ₂)		•		
Oxides of nitrogen (NO _x)	•	•	•	•
Nitric oxide (NO)	•	•	•	•
Nitrogen dioxide (NO ₂)	•	•	•	•
Respirable particulates (PM _{2.5})	•	•	•	•
Ozone (O ₃)	•	•	•	•
Non-methane hydrocarbons (NMHC)	•	•	•	
Methane (CH ₄)	•	•	•	
Hydrogen sulphide (H ₂ S)		•		
Total hydrocarbons (THC)	•	•	•	
Carbon monoxide (CO)	•	•	•	
Wind speed and direction	•	•	•	•
Air temperature	•	•	•	•
Relative humidity	•	•	•	

Air Quality Health Index (AQHI)

- A tool that measures air quality in your community and reports it on a scale from 1 to 10.
- The lower the number the lower the risk.
- Primarily uses $PM_{2.5'}O_{3'}$ and NO_2 to calculate AQHI
 - For Alberta, additional pollutants (SO₂, H₂S, TRS, CO) are included if measured levels exceed the AAAQOs.
- AQHI app for iPhone and iPad



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The Impact of Air Pollution in the CRAZ Region

Human-caused air pollution in the CRAZ region contributes to The estimated cost of **377**premature mortalities per year. air pollution in the CRAZ Region is \$2.94 That's equivalent to about **23** in every billion 100,000 per year! people in the CRAZ That's \$2.78 billion Region experiencing from premature CD 15 premature mortality mortality and \$160 CD 5 CD 6 resulting from air million from illness, ¢۵ pollution. disease or lack of Legend health. CRAZ Boundary Cities and Towns Urban CRAZ Rural CRAZ 30 60 120 Ď CD 3 There are also approximately **202** emergency There are approximately 239 adult chronic bronchitis cases and 1,167 child acute bronchitis episodes every room visits and **57** hospital admissions every year resulting from air pollution in the CRAZ Region. year resulting from air pollution in the CRAZ Region.

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Commitment to Community

To share knowledge through tours, school programs, and workshops.







Workshops



Transportation & Air Quality Let's Talk About Air Quality Forum

Commitment to Learning



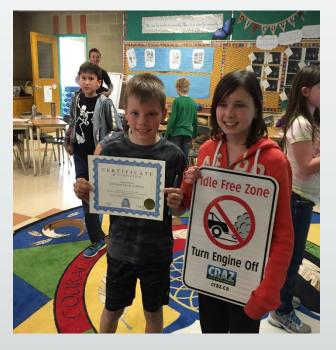
To teach about air quality monitoring.



Commitment to Members

CRAZ works hard to empower through initiatives and collaborative learning to schools, municipalities, industries and the general public.





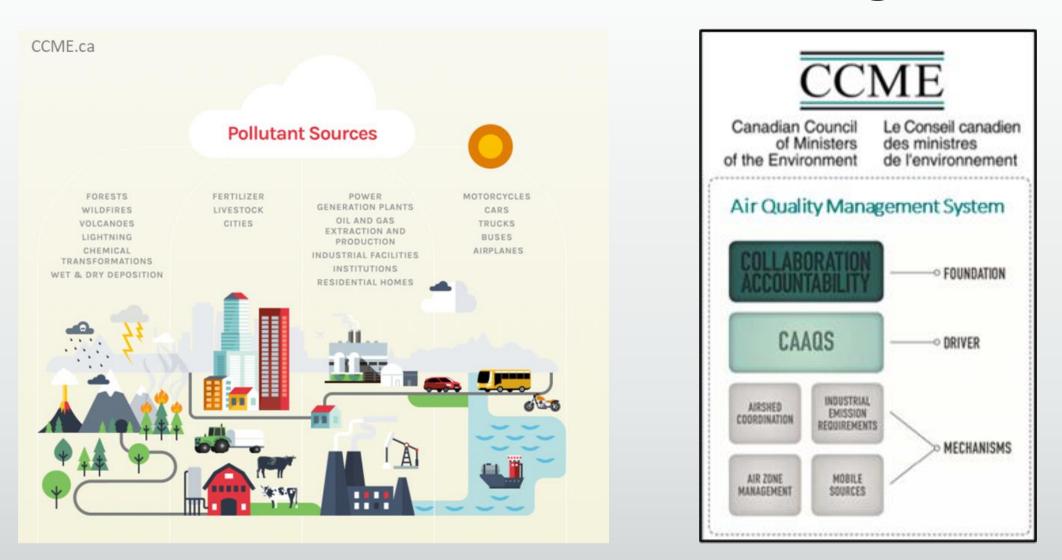


Working with our Members

Community Guide to Wildfire Smoke and Health	Air Quality Management Toolkit: For Municipalities	City of Calgary Environmental Strategy Committee
Calgary Metropolitan Regional Board Technical Committee	Clean Air Strategic Alliance Non-Point Source Technical Committee	South Saskatchewan Regional Plan Air Quality Policy
	Pagional Air Quality	

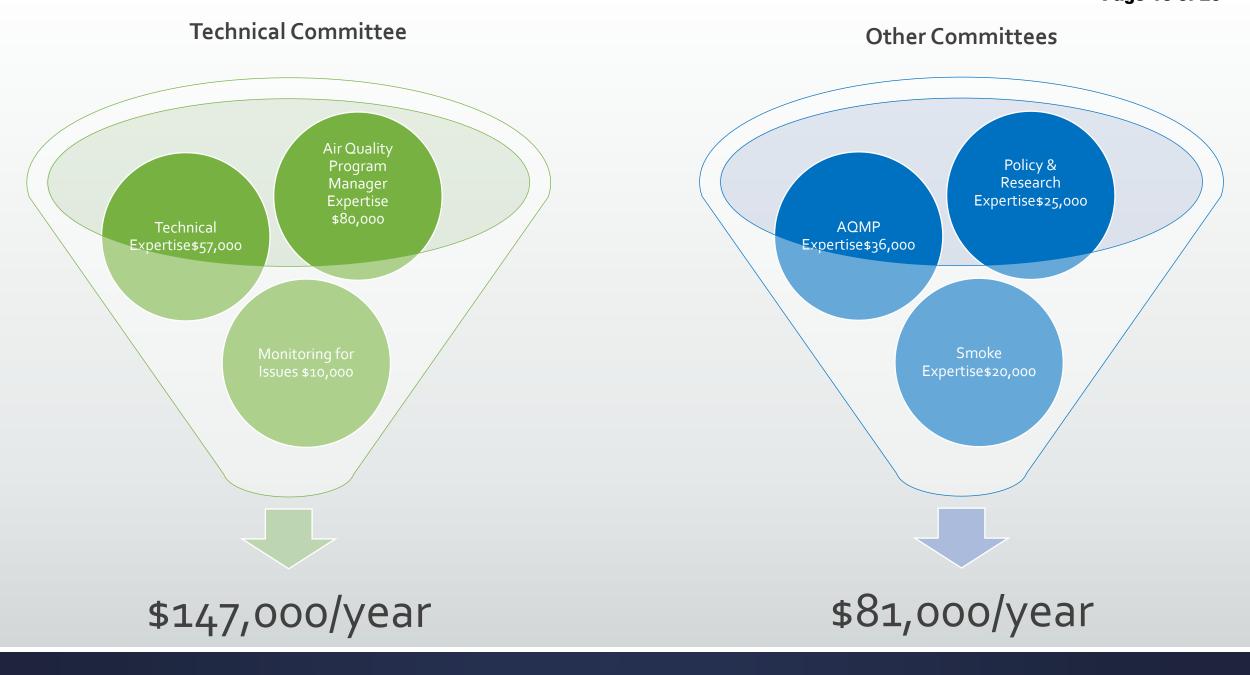
Regional Air Quality Management Plan Updated

Commitment to Climate Change



CRAZ Committees





Collaboration and Consensus	 Multi-stakeholder based organization with a consensus based decision making process that enables all parties to move forward with a common goal
Network and Community	 Representatives from gov't, industry, public, educators, & technical experts working together Opportunity to build relationships across a broad network of experienced & dedicated professionals
Environment, Social and Governance	 Protect your license to operate Shape public policy Community investment opportunities
Education and Outreach	• Comprehensive educational and training programs available for members
Trusted Partner	 Recognized as a respected and authoritative ally on air quality Platform to find solutions that benefit all members and promote best practices 3rd Party Validation

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Membership in CRAZ \$4,102.80/year \$0.10/capita

Access to Air Quality Specialists Partner in outreach campaigns Fulfill legislated requirements Advocacy and representation with the province Access to real-time data Commitment from Members

Attend the AGM - June Councillors/staff are welcome to join a committee



www.craz.ca/blog

@CalgaryAirshed



Calgary Region Airshed Zone

VISION

The region's air quality supports and fosters a healthy and vibrant population, ecosystem, and economy.

MISSION

We monitor, analyze, and engage with stakeholders to develop strategies that positively impact air quality within the region.