

Presentation Outline

- About Alberta Capital Airshed (ACA)
- Air Quality in Spruce Grove
 - Current monitoring
 - Gaps in monitoring
- Current and potential partnerships ACA & Spruce Grove
 - Monitoring
 - Climate adaptation/mitigation linkages





Alberta Capital Airshed 101

- One of ten Airsheds in Alberta
- Multi-stakeholder not for profit
- Responsible for collecting and reporting air quality data
- Operate several types of air quality monitoring stations
- Education and awareness
- Airshed network of data informs AQHI & government monitoring plans





LEGEND Alberta Capital Airshed boundary Old boundary Monitoring Station PurpleAir Site Passive Site St. Albert Woodcroft Edmonton McCauley Edmonton East Ardrossan Sherwood Park Edmonton South

Alberta Capital Airshed 101



Alberta Capital Airshed 101

- Community Collaboration Committee
 - Spruce Grove's Senior Environmental Advisor sits as a member of this committee
 - Brings together municipal, government and notfor-profit members to identify and collaborate on issues related to air quality
 - (more on potential opportunities later in the presentation)





Air Quality in Spruce Grove

- Current monitoring
- Gaps
- Future considerations in monitoring



Air Quality in Spruce Grove Current Monitoring

Passive Monitoring & Particulate Sensors

Live Air Data Map







Air Quality in Spruce Grove Current Monitoring

- Passive monitor
- Located at Aspenglen Park
- Monitors for SO₂
 and NO₂
- Samples collected monthly
- Background data







Air Quality in Spruce Grove Current Monitoring

- Fine particulate sensors
- Three in Spruce Grove
- Live data reported to web
- Local context during wildfire season
- Part of network







Air Quality in Spruce Grove Gaps & Opportunities

A five-year air quality and deposition monitoring, evaluation and reporting plan

2021-2025 | Supplementary Information



Albertan

GAP:

No continuous monitoring in Spruce Grove

AQHI for Spruce Grove comes from Parkland County

Spruce Grove ranks 17th in provincial priority to fill gap in continuous monitoring





Shameless plug...

Check out our recorded Clean Air Webinar!



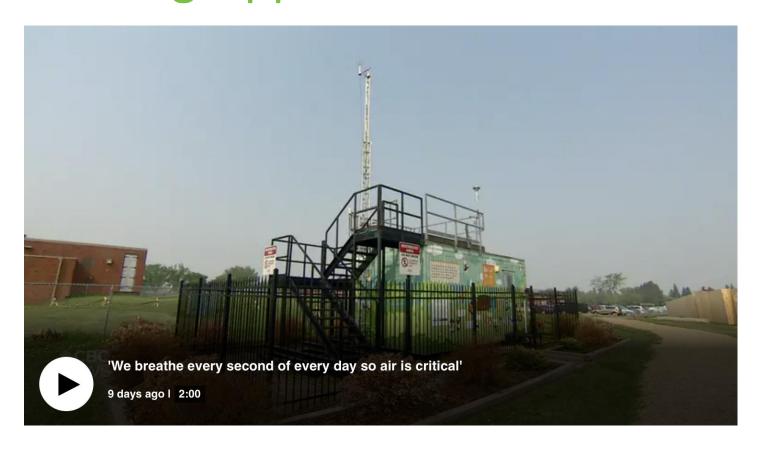
About - Monitoring - Education & Outreach - Issues Management - News & Events - Contact







Air Quality in Spruce Grove Monitoring Opportunities – Continuous







Air Quality in Spruce Grove Continuous Monitoring Opportunities

WHEN?

HOW?





Partnerships – ACA & Spruce Grove

Current

- Benefits of Membership
- Hosting passive and fine particulate sites
- Proposed
 - Climate Change Implementation Plan
 - Continuous monitoring options





We value your membership. Thank you!



Working closely with the community and other stakeholders through the Alberta Capital Airshed gives us an invaluable opportunity to maintain and grow our connection within the community on air quality concerns and play a role in local solutions.

Brent Korobanik, Lehigh Cement

Alberta Capital Airshed provides a forum for us to connect with other municipalities, governments, industry and local residents so that we all have the same information and can work toward ensuring the air we breathe is clean.

Jocelyn Thrasher-Haug, Strathcona County

MUNICIPAL MEMBERS

Urban and rural municipalities participate in ACA voluntarily. Annual membership fees range from \$2,500 for towns and small cities to \$10.000 for Edmonton.

BENEFITS OF ACA MEMBERSHIP

- Support for effective public engagement on air quality and odour issues.
- Cost effective solutions for meeting environmental responsibilities.
- Access to air quality expertise, especially important for municipalities with limited resources.
- Consistent messaging to all residents in the region regarding air quality.
- An important connection between air quality and land use planning.
- Forum to work with other stakeholders and neighbouring municipalities on air quality issues.
- Another connection with regulatory and legislative bodies.



Proposed Partnerships Climate Change Implementation Plan

City of Spruce Grove

Climate Change Implementation Plan: Phase 1

2022-2025 Actions

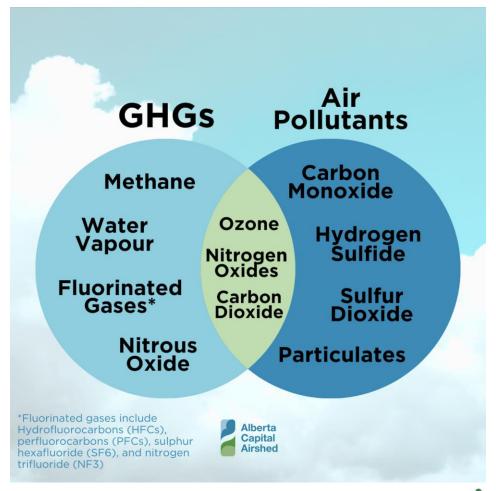
Contact: Avelyn Nicol, Senior Environmental Advisor May, 2023







Air Quality Linkages to GHGs







Air Quality Linkages to GHGs



sources





Potential Partnerships

City of Spruce Grove

Climate Change Implementation Plan: Phase 1

2022-2025 Actions

Contact: Avelyn Nicol, Senior Environmental Advisor May, 2023







How Alberta Capital Airshed might Support



Action 1: Develop a formal strategy for the City's approach to electric vehicles....

Alberta Capital Airshed is available for advice and information related to air quality considerations of EVs





Potential Partnership!



Action 9: Support data management...building air quality monitoring...

Leduc pilot – review results in partnership Discuss with AEPA - AQHI station in Spruce Grove





Potential Partnership!



Action 11: Reduce community idling

Work together:

- educational messaging for idling signage
- supporting adaptation-related education programs





How Alberta Capital Airshed might Support



Action 12: Tree/Shrub Giveaway....

Community Collaboration Committee discussion – Tomorrow Foundation for a Sustainable Future project related to impact of trees for improved air quality and other climate supports





Continued Partnership!



General Action: Support partnerships regionally

Identifying and collaborating on issues of joint interest such as:

- Wildfire smoke collaboration and communications
- Exploring air quality informed bylaws
- Exploring clean air shelters





ACA Website Public Resources

- Live Data Map
- Clean Air Webinar Series
- Teacher Corner

Annual Report to the Community

Find us on all your social media channels!

@yegairshed















Questions, Feedback, Ideas?

Gary Redmond, Executive Director gredmond@capitalairshed.ca

Julie Kusiek, Engagement Coordinator jkusiek@capitalairshed.ca

Jordan Peterson, Membership Coordinator jpeterson@capitalairshed.ca



