

WHAT IS CASA?

CASA is a multi-stakeholder partnership. It is made up of representatives selected by industry, government, Indigenous communities, and non-government organizations. Every partner is committed to a comprehensive air quality management system for Alberta.

WHAT WE DO

We support three air quality management goals:

1. Protect the environment by prevent short and long-term adverse effects on people, animals, and the ecosystem.
2. Optimize economic efficiency.
3. Promote pollution prevention and continuous improvement.

More Information:

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Roadside Optical Vehicle Emissions Reporter III

About this project

The Government of Alberta is committed to managing Alberta's air quality. Transportation is a source of air pollution in Alberta, and it impacts the health of Albertans and the environment.

Project Goal:

To measure air pollution from the transportation sector, particularly diesel-fueled trucks, so the information can help inform management actions or next steps to help manage air pollution from transportation in Alberta.

Scope:

In 2020-2022, CASA used remote sensing technology to measure exhaust from vehicles on Alberta's roads and highways. The technology measured air pollutants and greenhouse gases (oxides of nitrogen, volatile organic compounds, carbon monoxide, carbon dioxide, and particulate matter) for a holistic approach.

The project did not include vehicle inspections.

What we found:

Approximately 30% of heavy-duty diesel vehicles we measured emitted 10 times or more air pollution than was expected. This is likely because their emission control systems are not working, but as inspections were not included, the reason is unknown. Their emission control systems may have been tampered or removed, have manufacturer faults, or have not been maintained.

What we can do about it:

- Share information on the impacts vehicle exhaust can have on people and the environment
- Collect more data so we can assess changes in vehicle emissions over time
- Explore actions and initiatives from the Government of Alberta to reduce tampering with emission control systems

To find out more:

Read the full report and recommendations on CASA's website:

www.casahome.org/past-projects/roadside-optical-vehicle-emissions-reporter-iii-project-team-53/