HEI energy
A Health Effects Institute Affiliate

DECEMBER 2022
Quarterly Research Update

Community Exposure to Emissions and Noise Near Unconventional Oil and Gas Development (UOGD): North Front Range

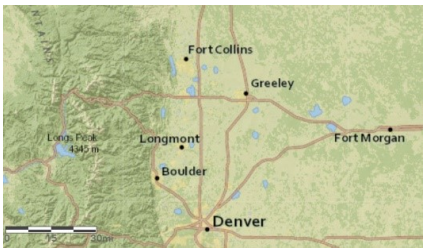
Principal Investigator: Jeffrey Collett, Professor, Colorado State University

Study Description

ABOUT Fact sheet in English and Spanish

GOAL Assess how people in the North Front Range community might be exposed to both noise and chemicals in air from unconventional oil and gas development.

- This study is part of the Tracking Community Exposures and Releases (TRACER) Collaboration, a three-team research collaboration funded by HEI Energy.



General Study Location

What's happened?

- Conducted two months of air monitoring around drilling operations.
- Completed several stakeholder engagement activities: met with a local operator, gave a project overview presentation at the August 31, 2022 meeting of the Colorado Oil and Gas Conservation Commission, and spoke with residents wanting to learn more about UOGD emissions at a Climate Action Event in Longmont, Colorado.

LEARN MORE

HEI Energy Website
Study Webpage

What's new?

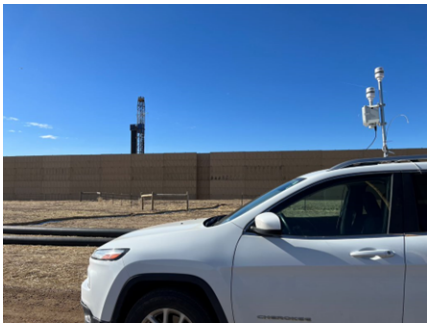
- Continuing air monitoring around drilling operations.
- Continuing to define UOGD operational activities for inclusion in the TRACER model in collaboration with Colorado State University and University of Texas-Austin.
- Reviewing past regional emissions data to define chemical patterns of emissions from specific UOGD operational activities.

UPCOMING EVENTS

- Dr. Collet to give a keynote talk on UOGD air emissions at the Annual Conference of the American Meteorological Society in Denver on January 9, 2023.

What's next?

- Meet with an additional local operator about additional UOGD monitoring in 2023.
- Work with UT Austin to add estimates of drilling and hydraulic fracturing emissions to TRACER model.



Mobile monitoring of air quality near a well pad in the North Front Range during drilling operations.

Sponsors: This program is supported with joint funding from HEI Energy's government, oil and gas industry, and foundation sponsors. All research is selected, overseen, and reviewed independently of HEI Energy's sponsors.