

Q&A

Investigating Air Pollution and Noise Exposure Near Unconventional Oil and Gas Development in Colorado

Study Description

Scientists at Colorado State University and the Colorado School of Public Health, University of Colorado will 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 (UOGD). In collaboration with the Colorado Department of Public Health and Environment, they will measure chemical and noise levels near well pads in the North Front Range. They will also use models to predict concentrations of chemicals in air resulting from UOGD during drilling, well completions, and production. This study is part of a three-team research collaboration funded by HEI Energy that aims to improve understanding of potential community exposures associated with UOGD in the United States.



General Study Location

Questions and Answers

Who is funding the research?

HEI Energy is funding this research. HEI Energy receives joint funding from government, the oil and gas industry, and foundations. All research is selected, overseen, and reviewed independently of HEI Energy's sponsors. [Learn more about our sponsors.](#)

What will the researchers measure, where, and when?

The researchers are measuring noise and chemicals emitted to the air at various distances from UOGD well sites. They will collect measurements from Summer 2022 through 2023.

How might I benefit from this research?

The study will provide additional information about potential chemical and noise exposures and the oil and gas activities that give rise to them. This information will be presented as data and tools that community members, policymakers, operators and others can use in making decisions about how best to protect public health.

How can I get involved?

If you are interested in allowing the research team to place air or noise monitoring equipment on your property or sharing existing monitoring data, please contact Lisa McKenzie (Lisa.Mckenzie@cuanschutz.edu). If you are an operator interested in allowing the research team to place monitoring equipment on or near a well pad or sharing operational or monitoring data, please contact Jeffrey Collett (Jeffrey.Collett@colostate.edu).

How can I stay up to date on the progress of the research?

Sign up for email updates at <https://www.heienergy.org/research-updates>. You can also check the [project website](#) which will provide information about future events, study progress, announcements, updates and reports, and other information.

Research Team Leads

Jeffrey Collett (Study Lead)
Professor and Department Head
Colorado State University
Jeffrey Pierce
Professor, Colorado State University
Lisa McKenzie
Clinical Assistant Professor
Colorado School of Public Health
Mike van Dyke
Associate Professor
Colorado School of Public Health
Dan Zimmerle
Senior Research Associate
Colorado State University