

## Community Exposure to Emissions and Noise Near Unconventional Oil and Gas Development: Eagle Ford Shale Region, Texas

**Principal Investigator:** [Lea Hildebrandt Ruiz, Associate Professor, University of Texas at Austin](#)



### Study Description

#### ABOUT

Fact sheet in [English](#) and [Spanish](#)

#### GOAL

Assess how people in the Eagle Ford Shale and surrounding areas might be exposed to air emissions and noise from unconventional oil and gas development (UOGD).

- 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?

- Purchased and received equipment to monitor air quality and noise.
- Started to develop the TRACER model to predict emissions of chemicals of potential concern for health.



*The mobile monitoring platform for mobile measurements in the Eagle Ford Shale.*

### What's new?

- Identifying air and noise monitoring locations based on the presence of emissions sources, wind direction and accessibility in Karnes City, Texas.
- Setting up monitoring platforms and testing equipment.



*The trailer to be used for stationary measurements in the Eagle Ford Shale.*

### What's next?

- Begin mobile air monitoring in October 2022 in Austin, Texas, to 'test drive' the equipment for future monitoring in the Eagle Ford Shale.
- Use the TRACER model to evaluate the effect of proposed Environmental Protection Agency rules, aimed at reducing methane emissions, on volatile organic compound emissions from UOGD.
- Develop techniques to include emissions from flares in the TRACER model.

### LEARN MORE

Study page on  
[HEI Energy website](#)