

## Community Exposure Associated with Water Near Unconventional Oil and Gas Development (UOGD) in Southwestern Pennsylvania

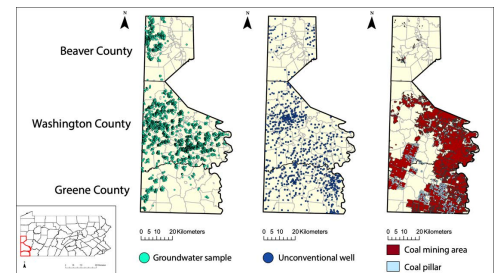
**Principal Investigator:** Jennifer Baka, Associate Professor, Penn State University



### Study Description

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

**GOAL** Conduct a community-informed analysis of water quality data to produce a framework for studying the relationship between specific UOGD processes and potential groundwater contamination. The framework will be broadly applicable to oil and gas regions in the United States.



*Southwestern Pennsylvania study and sampling locations*

### What's happened?

- Continued to analyze water quality data for chemical patterns that indicate potential contamination from various forms of energy development.
- Continued to analyze information shared by community members during focus groups earlier this year.
- Dr. Shaheen presented [research](#) at the November 2022 meeting of the Society of Environmental Toxicology and Chemistry in Pittsburgh, PA.

### LEARN MORE

[HEI Energy website](#)

[Study Webpage](#)

### What's new?

- Completing analysis of water quality data.
- Preparing for additional community focus groups in spring 2023.
- Planning for the 2023 [Shale Network Workshop](#) with a panel related to this study.

### UPCOMING EVENTS

- Dr. Brantley, a research team member, will present a paper titled "[Water Quality Impacts from Shale-gas Development: from Case Study to Statistical Analysis and from Pennsylvania to the USA](#)" at the December 2022 American Geophysical Union Meeting.
- Mr. Harrington, a research team member, will present a paper titled "[Something in the Water?: Exploring Uncertainty and Knowledge Gaps around Drinking Water Contamination from Unconventional Oil and Gas Drilling development in Washington County, PA](#)" at the March 2023 American Association of Geographers Annual Meeting.

### What's next?

- Host additional focus groups with communities in spring 2023.
- Write summaries of our analysis of water quality data and findings from community focus groups.
- Begin to assess community exposure to chemicals in water.