

# Bradford County Groundwater Study



## Overview

In 2015, Bradford County received a \$173,250 grant from the Appalachian Regional Commission to conduct a county-wide groundwater sampling program to help understand the quality of groundwater in privately owned wells within the County. This was matched by \$173,250 from the US Geological Survey and \$23,250 from Guthrie. The total project cost is \$369,750.

Bradford County sees water quality as a critical piece to upholding the health and well-being of our residents. Most rural residents in Bradford County use groundwater from domestic wells for drinking, cleaning, and other purposes. Despite this reliance on groundwater, there is relatively little known about the chemical quality of groundwater used for domestic supply in the County. This study has provided a quality-assured dataset that details the current conditions of our groundwater. Results from this study can aid regional efforts to assess possible trends/changes in groundwater quality and health over time for those living and working in the region. The study also sheds light on how geological controls and land-use activities can influence the quality of our groundwater.

As part of this study, 72 randomly selected wells were sampled throughout the County. Each site was sampled on a voluntary basis in cooperation with the well owner. The study analyzed a comprehensive list of water quality parameters for each well, including substances such as major ions, metals, nutrients, bacteria, radiochemicals, gases and VOCs.

The County's partners in this project include the U.S. Geological Survey (USGS), Guthrie, Northern Tier Regional Planning and Development Commission (NTRPDC), and the Appalachian Regional Commission (ARC).



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## Groundwater Facts [\(Click to Follow Links\)](#)

- [Groundwater: A Primer for Pennsylvanians](#)

## Interpreting Your Well Water Sampling Results

- [Water Tests: What Do the Numbers Mean?](#)
- [How to Interpret a Water Analysis Report](#)
- [Penn State Drinking Water Interpretative Tool](#)

## Well Water Contamination Facts Sheets & Resources

- [Removal of Arsenic from Wells in Pennsylvania](#)
- [Coliform Bacteria](#)
- [Safeguarding Wells and Springs from Bacterial Contamination](#)
- [Lead in Drinking Water](#)
- [Methane Gas and Its Removal from Wells in Pennsylvania](#)
- [Nitrates in Drinking Water](#)
- [Reducing Radon in Drinking Water](#)

## Additional Resources

Drinking Water Regulations & Well Construction

- [PA DEP Private Water Wells Information](#)
- [A Guide to Private Water Systems in Pennsylvania](#)
- [Protecting Wells with Sanitary Well Caps and Grouting](#)
- [Private Wells: What to Do After the Flood](#)
- [Penn State Cooperative Extension: Master Well Owners Network](#)
- [U.S. EPA Drinking Water Regulations & Drinking Water Information](#)

## Well Water Testing

If you have any concerns about the quality of your well water, please contact the Pennsylvania Department of Environmental Protection (PADEP) North-central Regional Office in Williamsport for consultation.

DEP North-central Regional Office

208 West Third St., Suite 101

Williamsport, PA 17701

Office Hours 8 a.m. - 4 p.m.

Phone: 570-327-3636 (24 hours)

## Water Quality

- [North Central Source Water Protection Alliance](#)
- [Lycoming County Stormwater Management](#)
- [Sourcewater PA](#)
- [Stormwater PA](#)
- [Pennsylvania State Water Plan](#)
- [Penn State Cooperative Extension: Water Resources](#)
- [Water Resource Education Network](#)