

## **Water Quality Monitoring of Beaver Run Reservoir in Westmoreland County, PA**

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The Beaver Run Reservoir, which provides drinking water to approximately 150,000 people, is operated by the Municipal Authority of Westmoreland County (MAWC) in western Pennsylvania. The land owned by MAWC has been leased to companies to extract natural gas from the Marcellus shale, and several current and future-planned drilling sites sit adjacent to the reservoir. In order to monitor the extraction process and address concerns from the local communities, faculty at Indiana University of Pennsylvania were contracted to sample surface water around the reservoir and test for various inorganic compounds. The sampling program, which involves faculty and students from Chemistry, Geography and Regional Planning, and Geosciences, has targeted drainages from the drilling pad sites, tributaries to the reservoir, and points near the lake bottom. Current findings will be presented from the first year of this ongoing project.