

**Richard T. Wilkin, Senior Research Scientist in EPA's National Risk Management Research Laboratory**

Groundwater, Watershed, and Ecosystem Restoration Division

[Mailing Address](#)

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**Area of Expertise:**

- Metal geochemistry in groundwater
- Hydraulic fracturing & drinking water resources
- Permeable reactive barriers for groundwater remediation
- Monitored natural attenuation of inorganic contaminants
- Abiotic attenuation of organic contaminants
- Carbon dioxide sequestration

**Select Publications:**

**Wilkin, R.T.**, T. Lee, D. Beak, R. Anderson, and B. Burns. [Groundwater Co-Contaminant Behavior of Arsenic and Selenium at a Lead and Zinc Smelting Facility](#). Applied Geochemistry. Elsevier Science Ltd, New York, NY, 89:255-264, (2018).

Zhao, J., T. Al, S. Chapman, B. Parker, K. Mishkin, D. Cutt, and **R.T. Wilkin**. [Determination of Cr\(III\) solids formed by reduction of Cr\(VI\) in a contaminated fractured bedrock aquifer: evidence for natural attenuation of Cr\(VI\)](#). Chemical Geology. Elsevier Science Ltd, New York, NY, 474:1-8, (2017).

Wolfe, A. and **R.T. Wilkin**. [Evidence of sulfate-dependent anaerobic methane oxidation within an area impacted by coalbed methane-related gas migration](#). Environmental Science & Technology. American Chemical Society, Washington, DC, 51(3):1901-1909, (2017).

**Wilkin, R.T.**, Lee, T.R., Ruybal, C.J., and Rectenwald, D.J. (2015). [Retrospective Case Study in Southwestern Pennsylvania: Study of the Potential Impacts of Hydraulic Fracturing on Drinking Water Resources](#). U.S. Environmental Protection Agency, Washington, DC. EPA/600/R-14/084.

Wolfe, A.L., **Wilkin, R.T.**, Lee, T.R., Ruybal, C.J., and Oberley, G.G. (2015). Retrospective Case Study in the Raton Basin, Colorado. *EPA Report*, EPA/600/R-14/091, 186 pp.

Ludwig, R.D., Beak, D.G., **Wilkin, R.T.**, Ruybal, C.J., and Rectenwald, D.J. (2015). [Retrospective Case Study in Northeastern Pennsylvania: Study of the Potential Impacts of Hydraulic Fracturing on Drinking Water Resources](#). U.S. Environmental Protection Agency, Washington, DC. EPA/600/R-14/088.

View more science publications by [Richard Wilkin](#).

**Education:**

- Ph.D., Pennsylvania State University, State College, PA; Geochemistry, 1995
- M.S., Michigan Technological University, Houghton, MI; Geology, 1991
- B.A., University of Minnesota, Minneapolis, MN; Geology, 1988

**Professional Experience:**Project and Workgroup Leads

- Acting Branch Chief, Subsurface Processes and Protection Branch
- Task Lead in Safe & Sustainable Water Resources and Sustainable and Healthy Communities National Programs

Board and Committee Memberships

- Editorial Board, *Chemical Geology* (2008- )
- Editorial Board, *Geochemical Transactions* (2005- )
- Associate Editor, *American Mineralogist* (2006-2016)
- Clark Patterson Award Committee, Geochemical Society (2006-2009)
- Member: Geological Society of America, Geochemical Society, Mineralogical Society of America

Awards and Honors

- EPA Scientific and Technical Achievement Awards (STAA): 2002, 2004(2), 2006, 2007(2), 2009, 2010, 2011, 2016, 2017 (Level 1)
- EPA Region 2, Outstanding Scientific Support, 2017
- EPA Office of Research and Development (ORD), Bronze Medal – Hydraulic Fracturing Retrospective Case Studies Team, 2016
- EPA ORD, Exceptional/Outstanding Technical Assistance to the Regions and Program Offices Award, Assistance to Regional Offices, 2016
- EPA ORD Exceptional/Outstanding Technical Assistance to the Regions and Program Offices Award, ORD Engineering Technical Support Center Team, 2015
- EPA ORD Bronze Medal – Asarco-East Helena PRB Research Team, 2010
- EPA ORD Outstanding Technical Assistance to the Regions and Program Offices Award, Ground Water Technical Support, 2009
- EPA ORD Outstanding Technical Assistance to the Regions and Program Offices Award, MNA Training, 2008
- EPA National Risk Management Research Laboratory, Leadership in the Environmental Research Community Award, 2007
- Environmental Science and Technology (American Chemical Society), Outstanding Reviewer Award, 2007
- EPA National Risk Management Research Laboratory, Teamwork Award/Industriplex Project, 2006
- EPA Region 1, Science Achievement Award, 2006
- EPA ORD Bronze Medal – Permeable Reactive Barrier Research Team, 2002