John McKernan, Environmental Scientist/Engineer in EPA's National Risk Management Research Laboratory

Land and Materials Management Division
Mailing Address

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Areas of Expertise: Contaminated sites; environmental remediation; remedy selection; monitoring technologies; chlorinated organics; persistent/recalcitrant organic compounds; and per- and poly-fluorinated alkyl substances (PFAS). Current research efforts include evaluating soil and sediment remediation options for PFAS compounds.

Select Publications:

Darlington, R., Ed Barth, and **J. McKernan**. 2018. The Challenges of PFAS Remediation. The Military Engineer. Society of American Military Engineers, Alexandria, VA, 110(712):58-60.

S Al-Abed, P Pinto, **J McKernan**. 2018. Innovative materials management in open pit coal mines to reduce leachate conductivity. Abstracts of Papers of the American Chemical Society 255.

PX Pinto, SR Al-Abed, CD Holder, R Warner, **J McKernan**, et. al. 2018. Assessing the Impact of Removing Select Materials from Coal Mine Overburden, Central Appalachia Region, USA. Mine Water and the Environment 37 (1), 31-41.

SR Al-Abed, PX Pinto, **J McKernan**, E Feld-Cook, SM Lomnicki. 2017. Mechanisms and effectivity of sulfate reducing bioreactors using a chitinous substrate in treating mining influenced water. Chemical Engineering Journal 323, 270-277.

S Lomnicki, B Subramanian, S Al-Abed, **J McKernan**. 2017. Bi-phase Catalyst for PCB removal from sediments and ground water. Abstracts of Papers of the American Chemical Society 253.

J McKernan, Z Hendren, A Vengosh, C Northeim, S Fang. 2017. Case study comparing novel remediation technologies for boron contaminated groundwater. Abstracts of Papers of the American Chemical Society 253.

View more research publications by John McKernan

Education:

- Sc.D., University of Massachusetts at Lowell, Lowell, MA; Environmental and Occupational Health, 2006
- M.S.P.H., University of North Carolina at Chapel Hill, Chapel Hill, NC; Occupational and Radiological Health, 1997
- B.A., University of North Carolina at Wilmington, Wilmington, NC; Physics, Minor in Mathematics, 1994

Professional Experience:

Workgroup/Project Leads

- Director, Engineering Technical Support Center (2012-present)
- EPA representative to Vietnamese Government regarding dioxin remediation through the US State Dept./Agency for International Development (USAID) (2012-present)
- Representative to the national EPA native-American Tribal Science Council (2012-present)
- Appointed to Accountability Working Group for Reorganization of the Office of the Surgeon General/DCCPR Assignment and Career Management Branch (2011-2012)
- EPA representative to the European Union Environmental Technology Verification Pilot Programme (2011-present)
- Team lead, Deepwater Horizon response, Destin, FL and Biloxi, MS (2010)
- Project Officer, Advanced Monitoring Systems Center, US EPA Environmental Technology Verification Program (2008-2012)

Awards and Honors

- EPA Bronze Medal for exceptional service based on leadership of environmental monitoring technology verification program (2015)
- EPA ORD Award for Outstanding Technical Assistance to the Program Offices and Regions (2014)
- PHS Outstanding Service Medal for high-impact technical and professional contributions in the field of engineering control technology (2012)
- PHS Unit Commendation and Response Service Award for exceptional work in support of the Deepwater Horizon oil spill (2012)
- EPA Certificate of Appreciation for dedicated service in support of EPA's national response to the Deepwater Horizon oil spill (2012)

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