

Jennifer T. Wilson, Professional Geoscientist

Supervisory Hydrologist
U.S. Geological Survey (USGS)
Texas Water Science Center
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Professional Experience

- 1995 to present
 - U.S. Geological Survey Texas Water Science Center
 - Supervising staff of 8 scientists in 3 offices that work on water quality, water use and availability, geophysics, and groundwater modeling studies
 - Studying water quality in groundwater and surface water
 - Studying sediment-associated contaminants in lakes, reservoirs, streams, and stormwater runoff
 - Responsibilities include meeting with stakeholders and collaborating agencies, writing project proposals, budget management, supervising staff, field work, sample processing, working with laboratories on special analytical needs, data management, quality assurance, reports publication, and project archival.
- 1992 to 1995
 - The University of Texas at Austin
 - Jackson School of Geosciences (then known as the Department of Geological Sciences)
 - Undergraduate Research Assistant for Dr. Jay Banner and Dr. Sharon Mosher
 - Responsibilities included creating hand samples using water and oil rock saws, preparing rock samples for thin sections, laboratory assistant in Environmental Isotope Geochemistry Clean Laboratory, sample and data management, literature searches, and reviewing journal articles.

Professional Associations

- 2003 to present, Licensed by the Texas Board of Professional Geoscientists, license number 3407

Education

The University of Texas at Austin, 1991 to 2001

Jackson School of Geosciences (then known as the Department of Geological Sciences)

- 2001, Master of Science, concentration in hydrology
 - Wilson, J.T., 2001, Polycyclic aromatic hydrocarbons in the bottom sediments of two urban lakes, Denver, CO: Thesis (M.S. in Geological Sciences), University of Texas at Austin, 125 p.
- 1995, Bachelor of Science with Honors

Selected Publications

Crow, C.L., **Wilson, J.T.**, and Kunz, J.L., 2016, Occurrence and concentrations of selected trace elements, halogenated organic compounds, and polycyclic aromatic hydrocarbons in streambed sediments and results of water-toxicity testing in Westside Creeks and the San Antonio River, San Antonio, Texas, 2014: U.S. Geological Survey Scientific Investigations Report 2016–5136, 56 p., <http://dx.doi.org/10.3133/sir20165136>.

Braun, C.L., **Wilson, J.T.**, Van Metre, P.C., Weakland, R.J., Fosness, R.L., and Williams, M.L., 2012, Grain-size distribution and selected major and trace element concentrations in bed-sediment cores from the Lower Granite Reservoir and Snake and Clearwater Rivers, eastern Washington and northern Idaho, 2010: U.S. Geological Survey Scientific Investigations Report 2012–5219, 81 p. <http://pubs.usgs.gov/sir/2012/5219/>

Wilson, J.T., 2011, Occurrence, distribution, and concentrations of selected contaminants in streambed- and suspended-sediment samples collected in Bexar County, Texas, 2007–09: U.S. Geological Survey Fact Sheet 2011–3090. <http://pubs.usgs.gov/fs/2011/3090/>

Braun, C.L., and **Wilson, J.T.**, 2010, Polychlorinated biphenyls in suspended-sediment samples from outfalls to Meandering Road Creek at Air Force Plant 4, Fort Worth, Texas, 2003–08: U.S. Geological Survey Scientific Investigations Report 2010–5076, 20 p.

Mahler, B.J., Van Metre, P.C., **Wilson, J.T.**, Musgrove, M., Burbank, T.L., Ennis, T.E., and Bashara, T.J., 2010, Coal-Tar-Based Parking Lot Sealcoat: An Unrecognized Source of PAH to Settled House Dust: *Environmental Science and Technology*, v. 44, p. 894–900.

Van Metre, P.C., Mahler, B.J., and **Wilson, J.T.**, 2009, PAHs Underfoot: Contaminated Dust from Coal-Tar Sealcoated Pavement is Widespread in the United States: *Environmental Science and Technology*, v. 43, p. 20–25.

Braun, C. L., **Wilson, J.T.**, and Van Metre, P.C., 2008, Degree of contamination and sources of polychlorinated biphenyls in Meandering Road Creek and Woods Inlet of Lake Worth, Fort Worth, Texas, 2004 and 2006–07: U.S. Geological Survey Scientific Investigations Report 2008–5177, 64 p.

Wilson, J.T., Musgrove, MaryLynn, Haynie, M.M., and Van Metre, P.C., 2008, Physicochemical and analytical data for tributary water, lake water, and lake sediment, Lake Arrowhead, Clay and Archer Counties, Texas, 2006: U.S. Geological Survey Data Series 334, 13 p.

Van Metre, P.C., **Wilson, J.T.**, Horowitz, A.J., Skrobialowski, S.C., Foreman, W.T., Fuller, C.C., Burkhardt, M.R., Elrick, K.A., Mahler, B.J., Smith, J.J., and Zaugg, S.D., 2007, Chemical constituents in sediment in Lake Pontchartrain and in street mud and canal sediment in New Orleans, Louisiana, following Hurricanes Katrina and Rita, 2005: U.S. Geological Survey Data Series 206, 159 p.

Van Metre, P.C., **Wilson, J.T.**, and Kimball, B.A., 2006, Sources of polychlorinated biphenyls to Devils Swamp Lake near Baton Rouge, Louisiana: U.S. Geological Survey Scientific Investigations Report 2006–5301, 57 p.

Mahler, B.J., Van Metre, P.C., **Wilson, J.T.**, Guilfoyle, A.L., and Sunvison, M.W., 2006, Concentrations, loads, and yields of particle-associated contaminants in urban creeks, Austin, Texas, 1999–2004: U.S. Geological Survey Scientific Investigations Report 2006–5262, 107 p.

Wilson, J.T., Van Metre, P.C., Werth, C.J., and Yang, Y, 2006, Particle-associated contaminants in street dust, parking lot dust, soil, lake-bottom sediment, and suspended and streambed sediment, Lake Como and Fosdic Lake watersheds, Fort Worth, Texas, 2004: U.S. Geological Survey Data Series 211, 24 p.

Mahler, B.J., Van Metre, P.C. Bashara, T.J., **Wilson, J.T.**, and Johns, D.A., 2005, Parking Lot Sealcoat: An Unrecognized Source of Urban Polycyclic Aromatic Hydrocarbons: *Environmental Science and Technology*, v. 39, p. 5560–5566.

Van Metre, P.C., **Wilson, J.T.**, Fuller, C.C., Callender, E., and Mahler, B.J., 2004, Collection, analysis, and age-dating of sediment cores from 56 U.S. lakes and reservoirs sampled by the U.S. Geological Survey, 1992–2001: U.S. Geological Survey Scientific Investigations Report 2004–5184, 180 p.

Wilson, J.T., 2003, Occurrence of and trends in selected sediment-associated contaminants in Caddo Lake, Texas, 1940–2002: U.S. Geological Survey Water Resources Investigations Report 03–4253, 88 p.

Wilson, J.T., 2001, Polycyclic aromatic hydrocarbons in the bottom sediments of two urban lakes, Denver, CO: Master's Thesis, University of Texas at Austin, 125 p.

Wilson, J.T. and Van Metre, P.C., 2000, Deposition and chemistry of bottom sediments in Cochiti Lake, north-central New Mexico: U.S. Geological Survey Water-Resources Investigations Report 99–4258, 31 p.

Van Metre, P.C., **Wilson, J.T.**, Callender, E., and Fuller, C.C., 1999, Similar rates of decrease of persistent, hydrophobic and particle-reactive contaminants in riverine systems: *Environmental Science & Technology*, v. 32, p. 3312–3317.