

Name: Timothy B. Spruill

STAC Member Since: July 2004

Title: Hydrologist

Organization: Retired from US Geological Survey

Education: MS Water Resources Management, University of Wisconsin-Madison (1977)
BS Wildlife Science, Oregon State University (1973)

Primary Focus Area: Ground-water/surface-water interactions, water-quality

Secondary Focus Area(s): Effects of land use on water quality, statistical analysis

Career Experiences: I began my career with the USGS in 1978 as a Hydrologist with the Water Resources Division in Lawrence, Kansas. During that time I was involved with the design and implementation of a groundwater-quality monitoring network for the State. Later I was involved with projects evaluating impacts of lead and zinc mining on ground-water quality in the Tri-State Lead Mine District of Kansas, Oklahoma and Missouri. During the mid-1980's, I directed a project with the State of Kansas (KDHE) in evaluating potential hazardous waste sites. My last few years in Kansas were involved with conducting, in cooperation with KDHE and EPA, a Remedial Investigation-Feasibility Study at the Arkansas City Oil Refinery Site, which was at the time, the number one CERCLA site in Kansas. In 1989, I left Kansas and served as the Water Quality Specialist for the Idaho District in Boise, where I designed and help implement a State-wide ground-water quality monitoring network for the Idaho Division of Water Resources.

In 1992 I served as Ground-water Quality Specialist with the USGS Albemarle-Pamlico National Water Quality Assessment (NAWQA) Program and became the Study Unit Chief in 1995. A variety of studies were conducted as part of the NAWQA effort that addressed pesticides, nutrients, and sediment in streams draining the Albemarle-Pamlico Basin. In 1997, I conducted, in cooperation with NCDENR, Division of Water Quality, studies evaluating impacts of agriculture on ground-water quality and nutrient fate and transport processes in shallow aquifers of the Coastal Plain. In 1999 I was chief investigator of an EPA/USGS study of fate and transport of nutrients in ground water and impacts on surface-water quality at a hog farm near Lizzie North Carolina. I was Chief of Hydrologic Studies from 2002 until retiring in 2006. I worked as a volunteer for USGS until 2010, during which time I authored or co-authored on papers on topics that included investigating factors affecting nitrate in streams from shallow aquifers, impacts of canals on American White Cedar in the Buckridge Coastal Reserve, and characterizing groundwater and associated nutrient flux into the Neuse River Estuary.