

## Daniel T. Heggem, Research Biologist, in EPA's National Exposure Research Laboratory

Systems Exposure Division

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**Area of Expertise:** Dan Heggem is an expert in environmental monitoring and assessment including water quality, riparian condition assessment, watershed water quality assessment, stream and river condition assessment and landscape ecological analysis. He is the Task Lead for EPA's Sustainable and Healthy Communities (SHC) Project 2.63: Assessing Environmental Health Disparities in Vulnerable Group; Task 4: Understanding the interrelationships between ecological and human health for Tribal sustainability. Dan has provided Native American Tribes with training and technical assistance by giving workshops to "train the trainers" and has been invited to Tribal lands to lead, facilitate and participate in ecological condition assessments to improve Tribal environmental management planning.

He is also the Project Officer of an EPA Interagency Agreement with the Bureau of Indian Affairs, US Department of the Interior for a collaborative effort to build Tribal capacity to address environmental issues and inform decisions for sustainable and healthy communities which benefit Tribes. Dan has been a PI and Technical Lead in the Agency's largest environmental monitoring programs including the National Water Monitoring Program, Acid Deposition Program, Environmental Monitoring and Assessment Program and the Ecosystem Services Monitoring Program. He assisted at the Exxon Valdez, Prince William Sound, Alaska oil spill and also did vessel duty for the Deepwater Horizon/BP Gulf of Mexico oil spill. He was an acting EPA Office of Research and Development (ORD) Branch Chief (five years) and an acting ORD Division Director (five years).

### Select Publications:

Hall, R. K., D. Guiliano, S. Swanson, M. J. Philbin, J. Lin, J. L. Aron, R. J. Schafer and D. T. Heggem, 2014. An Ecological Function and Services Approach to Total Maximum Daily Load (TMDL) Prioritization. *Journal of Environmental Monitoring*. Published online January 17, 2014. DOI 10.1007/s10661-013-3548-x.

HALL, R., R. L. Watkins, D. T. HEGGEM, K. Jones, P. R. KAUFMANN, S. B. Moore, and S. J. Gregory. Quantifying Structural Physical Habitat Attributes using LIDAR and Hyperspectral Imagery - PRK. *ENVIRONMENTAL MONITORING AND ASSESSMENT*. Springer, New York, NY, 159:63-83, (2009).

Heggem, D.T., C.M. Edmonds, A.C. Neale, L. Bice, and K. Bruce Jones, 2000. A Landscape Ecology Assessment of the Tensas River Basin. *Environmental Monitoring and Assessment* 64: pp 41-54.

View more research publications by [Daniel Heggem](#).

### **Education:**

- B.S. in Biology, 1976, Capital University
- Johns Hopkins University, Toxicology
- USGS Training Center, Water Sampling
- Community College of Southern Nevada, Geographic Information Systems
- Environmental Systems Research Institute ATP, Remote Sensing and Geographic Information Systems
- US EPA Training Program, Supervision, Management and Leadership

### **Professional Experience:**

- Research Biologist, USEPA, ORD, NERL, SED, EIB, Las Vegas, NV, 2011-Present
- Acting Division Director, USEPA, ORD, NERL-ESD, Las Vegas, NV, 2007-2011
- Supervisory Biologist, USEPA, ORD, NERL-ESD, Las Vegas, NV, 2004-2007
- Research Physical Scientist, USEPA, ORD, NERL-ESD, Las Vegas, NV, 1999-2004
- Research Environmental Scientist, USEPA, ORD, NERL-ESD Las Vegas, NV, 1987-1999
- Marine/Aquatic Biologist, USEPA, OTS, Field Studies Branch, Washington, D.C., 1980-1987
- Biologist, USEPA, Office of Pesticide Programs, Registration Division, Washington, D.C., 1977-1980

### Honors and Awards:

- NERL Teamwork Award, NERL EcoSummit Team, 2011
- ORD Environmental Justice Award, 2011
- ORD Recognition Award, Deep Water Horizon Oil Spill, 2010
- ORD Teamwork Award, National Coastal Assessment Team, 2007
- ORD Science Communication Award, Southwest Regional GAP Analysis Team, 2006
- U.S. EPA Award, Silver Medal for Superior Service, 2002
- U.S. Department of Agriculture Award, Group Honor Award for Excellence, 2001
- U.S. EPA, Special Achievement Award, from October, 1989 to September, 1990
- U.S. EPA Award, Gold Medal for Exceptional Service, 1989
- U.S. EPA, Special Achievement Award, Exxon Valdez Oil Spill, 1989
- U.S. EPA, Special Achievement Award, Chlorinated Dioxin Work Group, 1984
- U.S. EPA Award: Bronze Medal 1981