



---

1200 SW Executive Drive ♦ Topeka, Kansas 66615-3850 ♦ (785) 228-3148 ♦ FAX (785) 272-7349

## **Christopher S. Mammoliti**

**Aquatic Biologist**

### **SPECIALTIES**

- Stream Biological Monitoring
- Aquatic and Terrestrial Habitat Assessment
- Threatened and Endangered Species Survey
- Habitat Mitigation Planning
- Riparian Buffers and Stream Ecology
- NEPA Assessment and Review
- Environmental Permitting

### **RELEVANT EXPERIENCE**

Mr. Mammoliti has 31 years experience in fisheries and wildlife biology, stream ecology and biological monitoring, threatened and endangered species surveys, habitat assessment and mitigation, and environmental permitting and policy. Before joining the Watershed Institute Inc. (TWI), he served over 19 years with the Kansas Department of Wildlife and Parks (KDWP) as Ecologist, and most recently as Chief of the Environmental Services Section. As Section Chief, Mr. Mammoliti supervised three full-time ecologists and two full-time stream biologists. He developed and implemented a statewide Stream Biological Monitoring Program and administered a regulatory permit program for development projects impacting state and federally-listed threatened and endangered species. Additionally, Mr. Mammoliti provided internal NEPA review for all federally-funded KDWP projects. With TWI, Mr. Mammoliti provides technical expertise, field monitoring, and project management for natural resource assessments, stream biological inventories, stream bank stabilization, wetland determination and delineation, endangered species assessments, vegetation community surveys, habitat restoration and mitigation. He has conducted aquatic and terrestrial habitat surveys in Kansas, Missouri, Oklahoma, Iowa, South Dakota, Minnesota, Montana, and North Carolina.

Mr. Mammoliti's field surveys for threatened and endangered species and their habitats included determination of population distribution and trends, designation of critical habitats, and the development of mitigation requirements for projects impacting these habitats. Mr. Mammoliti was the lead state biologist for monitoring the population status and distribution of the federally-endangered Topeka shiner (*Notropis topeka*). He currently serves on the federal Topeka Shiner Recovery Team and is primary author of the Kansas Recovery Plan for the species. He has conducted ongoing population monitoring of the Neosho Madtom (*Noturus placidus*, federally-threatened), Arkansas River Darter (*Etheostoma cragini*, Kansas-threatened), Hornyhead Chub (*Nocomis biguttatus*, Kansas-threatened), and numerous freshwater mussel species. Additionally, Mr. Mammoliti has conducted distribution and habitat surveys for the federally-endangered American Burying Beetle (*Nicrophorus americanus*), federally-threatened Mead's Milkweed (*Aesclepias meadii*) and Bald Eagle (*Haliaeetus leucocephalus*), and the Kansas-threatened Northern Redbelly Snake (*Storeria occipitomaculata*), Smooth Earth Snake (*Virginia valeriae*), and Eastern Spotted Skunk (*Spilogale putorius*).

---

## **TECHNICAL TRAINING**

### **Fisheries Biology**

Fish Health Management, University of Idaho  
Fish Health Shortcourse, Auburn University  
Principles and Techniques of Electrofishing, U.S. Fish & Wildlife Service  
Stream Restoration and Protection, U.S. Environmental Protection Agency

### **Biological Monitoring**

Stream Basin Surveys and Applications, U.S. Forest Service  
Aquatic Monitoring for Natural Resource Specialists, U.S. Forest Service  
USACE 1987 Wetland Delineation Manual, U.S. Army Corps of Engineers

### **Instream Flow**

Designing and Conducting Studies Using the Instream Flow Incremental Methodology,  
National Ecology Research Center  
Field Techniques for Instream Flow Measurements, National Ecology Research Center  
Computer-based Physical Habitat Simulation System, National Ecology Research Center  
River and Floodplain Hydraulics Using HEC-2, University of Texas

### **Geomorphology and Fish Passage**

Fluvial Geomorphology, Gough & Associates  
Applied Fluvial Geomorphology, Wildland Hydrology (Dave Rosgen)  
River Morphology and Applications, Wildland Hydrology  
River Assessment and Monitoring, Wildland Hydrology  
Geomorphic Approach to Natural Channel Design in River Restoration, Wildland Hydrology  
Aquatic Organism Passage: Inventory and Assessment at Road-Stream Crossings, U.S. Forest Service  
Natural Channel Design in Dam Removal and Fish Passage, Minnesota Department of Natural Resources

### **Conflict Resolution**

Systematic Development of Informed Consent, Institute for Participatory Management and Planning  
Natural Resource Negotiation & Decision-Making, National Ecology Research Center  
Conflict Negotiation & Dispute Resolution, Kansas Department of Administration  
Conflict Resolution for Natural Resource Professionals, Kansas Chapter American Fisheries Society

## **EMPLOYMENT HISTORY**

Watershed Institute, Inc., Aquatic Biologist, May 2005 – present  
Tetra Tech EM, Inc., Aquatic Ecologist, October 2003 – May 2005  
Kansas Department of Wildlife & Parks, June 1984 – October 2003  
ConAgra Fish Products, Hatchery Manager, November 1979 – June 1984

## **EDUCATION**

B.S., Fisheries and Wildlife Biology, Iowa State University, 1979  
M.S., Environmental Studies, Friends University, 1991

## **AFFILIATIONS**

American Fisheries Society (AFS)  
Kansas Herpetological Society  
Kansas Academy of Science

**SELECT TECHNICAL & POPULAR PRESENTATIONS**

February, 1986	<b>Fertilization of Channel Catfish Rearing Ponds</b> Mid-Continent Warmwater Fish Culture Workshop
February, 1991	<b>Channel Catfish Broodstock Management</b> Mid-Continent Warmwater Fish Culture Workshop
April, 1992	<b>Habitat Evaluation of Natrona Creek, Pratt County, Kansas</b> Kansas Academy of Science
November, 1992	<b>Minimum Desirable Streamflows in Kansas</b> Kansas Chapter, American Institute of Hydrology
April, 1993	<b>Development of a Stream Monitoring Program in Kansas</b> North Central Division, American Fisheries Society, Rivers & Streams Technical Committee
October, 1993	<b>Threatened and Endangered Species Protection in Kansas</b> State Association of Kansas Watersheds
March, 1995	<b>The Effects of Floodwater Retarding Dams on Native Stream Cyprinids</b> Water and the Future of Kansas Conference.
February, 1996	<b>Topeka Shiner Field Surveys</b> Kansas Chapter, American Fisheries Society (Best Paper Award - Open Division)
March, 1996	<b>Streams in Kansas: The Good, The Bad, and The Ugly</b> The Wildlife Society – Midwest Regional Student Conclave
September, 1996	<b>The Importance of the 404 Program to Kansas Streams</b> U.S. Army COE, Kansas City District Workshop
April, 1997	<b>Biological Assessment of the Stream Resources in Johnson County, Kansas</b> Urban Resource Assessment and Management Conference
May, 1997	<b>Habitat Protection and Endangered Species Conservation Efforts within the Small Watershed Program in Kansas</b> National Watershed Coalition
August, 1997	<b>Threatened and Endangered Species Protection in Kansas</b> Governor's Surface Water Quality Committee
October, 1998	<b>The Effects of Small Watershed Impoundments on the Topeka Shiner</b> Kansas Association of Consulting Engineers
February, 1999	<b>Kansas Department of Wildlife &amp; Parks Stream Biological Monitoring Program</b> Kansas Chapter, American Fisheries Society
May, 1999	<b>Woodland Mitigation for Small Watershed Structures</b> National Watershed Coalition
February, 2000	<b>Endangered Fishes in Kansas</b> Kansas Commercial Fish Grower's Association
June, 2001	<b>Stream Ecology</b> University of Kansas Continuing Education
September, 2001	<b>Threatened and Endangered Species Protection in Kansas</b> Kansas Petroleum Council
June, 2004	<b>Riparian Woodland and Stream Assessment System</b> American Water Resources Association
September, 2004	<b>Stream and Riparian Assessment System</b> American Society of Agricultural Engineers

August, 2005-2008	<b>Stream Ecology</b> Kaw Valley Heritage Alliance, Basic Assessment Workshop
September, 2005	<b>Kansas In-Lieu Fee Program for Wetlands and Streams</b> Kansas Alliance for Wetlands and Streams, CPR II Conference
March, 2006	<b>Fall River Watershed Fluvial Geomorphology Study</b> Rivers & Streams Technical Committee, American Fisheries Society
September, 2007	<b>Fish Passage: Issues in Kansas</b> Kansas Alliance for Wetlands and Streams, CPR III Conference
December, 2007	<b>A Survey of Actions to Manage Sauger Populations in Mississippi River Basin States</b> 68 <sup>th</sup> Midwest Fish & Wildlife Conference
December, 2008	<b>Fish Community Changes at a Bendway Weir Streambank Stabilization Project</b> 69 <sup>th</sup> Midwest Fish & Wildlife Conference

### SELECT TECHNICAL & POPULAR PUBLICATIONS

- Fuselier, L. and C. Mammoliti. 1996. County Records for Fishes in the Neosho River Basin in Kansas. *Transactions of the Kansas Academy of Science* 99(3-4):157-160.
- Mammoliti, C.S. and W.R. Hamm. 1997. Habitat Protection and Endangered Species Conservation Efforts within the Small Watershed Program in Kansas. *Proceedings 5<sup>th</sup> National Watershed Conference*.
- Tilma, J.S., C.S. Guy, and C.S. Mammoliti. 1998. Relations among Habitat and Population Characteristics of Spotted Bass in Kansas Streams. *North American Journal of Fisheries Management* 18:886-893.
- Mammoliti, C.S. 1999. Kansas Woodland Mitigation for Small Watershed Structures. *Proceedings 6<sup>th</sup> National Watershed Conference*.
- Mammoliti, C.S. 2002. The Effects of Small Watershed Impoundments on Native Stream Fishes: A Focus on the Topeka Shiner and Hornyhead Chub. *Transactions of the Kansas Academy of Science* 105(3-4):219-231.
- Mammoliti, C.S. 2004. Recovery Plan for the Topeka Shiner (*Notropis topeka*) in Kansas. Kansas Department of Wildlife & Parks, Pratt, KS. 50 pages.
- Mammoliti, C.S. and S.A. Schulte. 2004. Stream and Riparian Assessment System. *In Self-Sustaining Solutions for Streams, Wetlands, and Watersheds. Proceedings of the September 2004 Conference*, American Society of Agricultural Engineers, St. Paul, MN. pp 191-198.
- Haslouer, S.G., M.E. Eberle, D.R. Edds, K.B. Gido, C.S. Mammoliti, J.R. Triplett, J.T. Collins, D.A. Distler, D.G. Huggins, and W.J. Stark. 2005. Current Status of Native Fish Species in Kansas. *Transactions of the Kansas Academy of Science* 108(1-2):32-46.