

John P. Lortie

Vice President, Environmental Management
Certified Wildlife Biologist
Professional Wetland Scientist



Capabilities

Ecological Studies and Risk Assessment:

- Amphibian risk assessment
- Endangered & threatened species risk assessment
- Ecological characterizations
- Wetland and stream restoration modeling
- Aquatic studies, including dive surveys and fish sampling
- Ecological receptor identification
- Detailed vernal pool studies
- Mammal, raptor, bat, amphibian and mussel surveys
- Snow tracking and scent post surveys

Natural Resource Evaluations:

- Endangered and Threatened Species (Federal- and State-listed)
- INRMP and ESMP development
- Essential Fish Habitat (EFH) evaluations
- Rare Plants and Natural Communities
- Unusual Natural Areas
- Critical or Significant Wildlife and Fisheries Habitats
- Intertidal and Subtidal Marine Communities

Wetland and Marine Science:

- Estuarine, River and Stream restoration design and construction
- Wetland mitigation design and monitoring
- Regional watershed evaluation and planning
- Permitting and regulatory advising

Permitting Expertise:

- NEPA Compliance and Documentation
- Section 7 Biological Assessments
- Magnuson-Stevens Act Documentation
- Clean Water Act Secs. 401 / 404 and 404(b)(1) Analyses
- River and Harbors Act, Sec. 10
- FERC Hydroelectric Licensing
- FERC Pipeline and Wind Power Projects
- Avoidance and Minimization Support
- Support for CERCLA/Superfund Projects
- State and Local Wetland Alteration Permitting
- Shoreland and Coastal Zone Management Determinations
- Dredging Project Permitting and Monitoring
- Natural Resources Sections of State Site Location Permits

Education

B.S., Wildlife Management, University of Maine, Orono.

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Mr. Lortie is a Professional Wetland Scientist, a Certified Wildlife Biologist, an accomplished botanist, and an experienced ecological risk assessor. He has directed numerous projects involving complex environmental regulations, including RCRA sites and marine facilities, and has taught short courses on eco risk assessment protocols, field methods, and restoration design. His recent work has included serving as a lead ecologist for the G.E./Housatonic River risk assessment and restoration project, one of the largest projects of this type in the eastern United States, and assisting in development of a landmark Biological Assessment for the proposed Cape Wind offshore energy project.

In addition to managing major habitat restoration projects and ecological risk projects, he has also led large-scale ecological inventories to search for rare animals and plants, directed coastal migratory bird studies, and has assessed complex natural communities throughout the northern Atlantic region. A former National Wildlife Refuge manager, he also offers special expertise in migratory bird studies.

As a Professional Wetland Scientist, Mr. Lortie also specializes in interpretation of wetland regulations, and wetland identification, evaluation, and mitigation. He is frequently retained by corporations, municipalities and professional organizations to provide project review services, lectures, or expert testimony on wetland regulations.

Experience

Stantec Consulting. 2007-Present. Vice President, Environmental Management.

Woodlot Alternatives, Inc. 1987 - 2007. President and Founder.

U.S. Fish and Wildlife Service, Wells, Maine 1984 - 1987.

U.S. Fish and Wildlife Service, Chatham, Massachusetts 1983-1984.

Canadian Wildlife Service, Sackville, New Brunswick 1982.

U.S. Fish and Wildlife Service, Calais, Maine 1980-1981.

University of Maine at Orono, Entomology Department 1979-1980.

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Publications

Strauss, H., Ferson, S., Lortie, J., McGrath, R. and Svirsky, S. 2005. Calculating a soil EPC when sampling and exposures are non-random. Presented at Society of Environmental Toxicology and Chemistry 26th annual meeting, Baltimore, MD. 2005.

Tucker, W.T., J. Litzgus, M.E. Thompson, J.P. Lortie, D.J. Fort, S. Svirsky, and S. Ferson. 2004. Extinction Risk in a Wood Frog (*Rana sylvatica*) Metapopulation under Environmental Contamination by PCBs. Presented at the 2004 Society for Conservation Biology meetings, New York, NY, July 30-August 2.

Moore, D.R., S. Ferson, J. Lortie, C. Werner. 2002. Probabilistic risk assessment approach for threatened and endangered species exposed to PCBs along the Housatonic River. Presented at Society for Environmental Toxicology and Chemistry 23rd annual meeting, Salt Lake City, UT, 2002.

Lortie, J.P., M. Thompson, R. Roy, and S. Svirsky. 2002. Monitoring Amphibian Reproductive Success at a PCB-Contaminated Site Using Fluorescent Pigments. Presented at Society for Environmental Toxicology and Chemistry 23rd annual meeting, Salt Lake City, UT, 2002.

Lortie, J.P., J. Cassels, K.W. Howard, W.R. Stack, and S. Svirsky. 2002. River Bank Meandering and Fate and Transport of Contaminants in the Housatonic River. Presented at Society for Environmental Toxicology and Chemistry 23rd annual meeting, Salt Lake City, UT, 2002.

Thompson, M.E., J.P. Lortie, K. Karwacky, and S. Svirsky. 2002. Estimating fish biomass in the Housatonic River, Massachusetts. Presented at Society for Environmental Toxicology and Chemistry 23rd annual meeting, Salt Lake City, UT, 2002.

Lortie, J.P., C. Werner, K. Karwacky, and S. Svirsky. 2002. Mink (*Mustela vison*) and River Otter (*Lontra canadensis*) Use of the Housatonic River, Massachusetts. Presented at Society for Environmental Toxicology and Chemistry 23rd annual meeting, Salt Lake City, UT, 2002.

Lortie, J.P., D.S. Hopkins Jr., S. Svirsky, D.B. Stewart. 2000. Lessons learned from five years of restoration and monitoring of 50 acres of wetlands following CERCLA cleanup at the former Loring Air Force Base, Limestone, Maine, 1995-2000. Quebec 2000: Millennium Wetland Event proceedings.

Royte, J.L. and J.P. Lortie. 2000. New occurrences of *Scirpus ancistrochaetus* in New Hampshire. *Rhodora*, v.102 (910): 210-213.

Lortie, J. P. Ribbon Snake (*Thamnophis sauritus*). 1999. Pages 184-187. In Maine Amphibians and Reptiles, edited by M.L. Hunter, A.J.K. Calhoun, and M. McCullough. The Univ. of Maine Press. 254 p.

Certifications

- Certified Wildlife Biologist
- Professional Wetland Scientist, #582
- Certified Wetland Scientist, State of NH, #092
- Certified NASDS SCUBA Diver

Affiliations

- Society of Environmental Toxicology and Chemistry
- Society of Wetland Scientists
- The Wildlife Society
- Maine Association of Wetland Scientists
- Massachusetts Association of Wetland Scientists
- Association of State Wetland Managers
- New England Botanical Club
- American Fisheries Society

Technical Presentations

2007. Natural Resource Damage Assessment Baseline/Injury Determination. Short course presented for North Atlantic Chapter of Society for Environmental Toxicology and Chemistry, West Greenwich, RI. 2007.

2007. Ecological Restoration Following a Sediment Removal Action. Short course presented at Fourth International Conference on Remediation of Contaminated Sediments, Savannah, GA. 2007.

2005 and 2006. Exposure Modeling and Food Chain Modeling using Probabilistic Assessment Techniques. Short course presented at Society of Environmental Toxicology and Chemistry 26th and 27th annual meetings. 2005 and 2006.

2004. Designing and Implementing Field Studies of Amphibians and Reptiles on Contaminated Sites. Short course presented for North Atlantic Chapter of Society for Environmental Toxicology and Chemistry 10th Annual meeting, Portsmouth, RI. 2004.

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Publications (continued)

Lortie, J.P., S. Svirsky, D.S. Hopkins Jr., D.B. Gulick. 1998. Stream and Wetland Restoration: Restoring a high value trout stream following the removal of contaminated sediments. Pages 380-385 in Engineering Approaches to Ecosystem Restoration, Proceedings of the American Society of Civil Engineers, Denver, Colorado, 1998.

Lortie, J.P. 1997. Wetland Losses in Maine. Maine Environmental Priorities Project, Maine Department of Environmental Protection. 9 p.

Royte, J.L., D.D. Sperduto, J.P. Lortie, 1996. Botanical reconnaissance of Nancy Brook Research Natural Area. Gen. Tech. Report NE-216. Radnor, PA; U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 23 p.

Lortie, J.P. Wetland identification and evaluation. 1995. Pages 1-17 in Wetlands and Natural Resource Protection Laws, Maine State Bar Association, Augusta, Maine. 232 p.

Humphrey, R.C., J.P. Lortie, and J. Royte. 1995. Seasonal occurrence of shorebirds at Biddeford Pool, Maine. *Naturalist* 3(1): 35-44.

Lortie, J.P. and M. Thompson. 1995. Loring Air Force Base OU 13 Mitigation Process Plan, Wetlands Management Program. 33 p.

Lortie, J.P., R.C. Humphrey, and D. Whitehead. 1993. An assessment of wetland functions and classification for the evaluation of Maine's wetland protection program. Maine Dept. of Environmental Protection. 27 pp.

Lortie, J.P. and J. Royte. 1993. Characteristics of the Saco River floodplain from the Kezar lake outlet fen to the Denmark/Hiram town line. Maine Chapter of the Nature Conservancy. 200 pp.

Lortie, J.P., R.C. Humphrey, and J.L. Royte. 1992. Inventory and assessment of Long's bulrush habitat in Lovell, Fryeburg, Denmark, and Brownfield, Maine. Maine Chapter of the Nature Conservancy. 20 pp.

Lortie, J.P., B.A. Sorrie, and D.W. Holt. 1991. Flora of the Monomoy Islands, Massachusetts. *Rhodora* 93(876): 361-389.

Lortie, J.P. and S.K. Pelletier. 1987. Distribution and abundance of breeding birds and small mammals in the high salt marsh and adjacent upland critical edge in southern Maine, 1986. In Proceedings of the Maine Biological and Medical Science Symposium.

Technical Presentations (cont.)

2002 & 2003. Field Techniques for Ecological Risk Assessments. Short course presented at Society of Environmental Toxicology and Chemistry annual meetings, Salt Lake City, 2002 and Austin, TX, 2003.

2001. Ecological Characterization of the Housatonic River. Presented at Society for Environmental Toxicology and Chemistry 22nd annual meeting, Baltimore, MD. 2001.

1999. Using Vernal Pool Monitoring and Amphibian Studies in Eco-Risk Assessment. Mass. Department of Environmental Protection, Boston, MA.

1995. Wetlands Update. First Annual Environmental Conference and Trade Show, Portland, Maine.

1995. Wetland identification and evaluation. Maine State Bar Association, Augusta, ME.

1995. Wetland identification, evaluation, and regulation seminars for: Wright-Pierce Engineering, Topsham, ME; Fleet Bank, Portland, Maine; Maine Farm Bureau, Maine Cranberry Growers, Machias, ME.