

Professional Profile

Ms. McIntosh is a Senior Technical Leader and Project Manager at Woodard & Curran, with over 15 years of experience in both hazardous waste site risk assessment and wetland science, and is also a board-certified toxicologist. In her role as Technical Leader for human health and ecological risk, Ms. McIntosh has expertise in conducting both human and ecological risk assessments for state and federal agencies, toxicological evaluations, environmental sampling, data usability analysis, and public communication. Her wetland-related experiences include wetland delineation, functional assessment, wetland, upland and stream bank restoration, and environmental permitting. Her expertise in the fields of both wetland science and risk assessment is both beneficial and practical in bringing together the multiple aspects of site assessment and remediation.

Ms. McIntosh's work has included research, development and application of innovative approaches toward implementing site assessment, cleanup and restoration in conjunction with regulatory performance standards. She is a mentor to junior staff and has conducted numerous literature reviews and brown bags to present internally within her company. She has also been externally engaged in the scientific and regulatory community through publications and presentations and participation in various workgroups.

Professional Experience

Woodard & Curran, Dedham, MA
2002-present

Risk Assessment Senior Technical Leader / Project Manager

Ms. McIntosh is currently a senior scientist and project manager in the Corrective Action Service Line, providing expertise in the fields of human health and ecological risk assessment and wetland science. As a senior risk assessor, Ms. McIntosh oversees and directs risk assessment projects. She also provides mentoring, training and guidance to junior staff, and routinely participates in regulatory risk assessment workgroups and professional environmental toxicology and risk assessment organizations. Ms. McIntosh also fulfills the role as the Senior Technical Leader for Woodard & Curran's risk assessment practice, providing leadership, vision, and guidance to the risk assessment group.

Many of Ms. McIntosh's risk projects are conducted under various regulatory programs related to hazardous waste site assessment, ranging from screening level assessments at small petroleum sites to comprehensive, multi-faceted baseline risk assessments at large-scale, high-profile sites with a suite of heavy metals, PCBs, pesticides and other organic compounds, and radionuclides. She has extensive experience in evaluating risk in aquatic systems. Her wetland projects have ranged from simple delineations and constraints analyses for development, to planning and implementation of remediation and restoration in tidal estuaries, inland swamps and large river systems.

Other risk-related projects Ms. McIntosh has worked on have been used in support of real estate due diligence, public health assessment, public communication, product safety analysis, and expert witness/litigation projects.

Fluor Daniel GTI/IT Corporation, Norwood/Hopkinton, MA
1998-2002

Environmental Scientist

At Fluor Daniel GTI/IT Corporation, Ms. McIntosh primarily conducted human health and ecological risk assessments under state and federal corrective action programs, with most of her time devoted to human health risk assessment. Her responsibilities included the identification of chemical hazards, exposure/dose modeling, habitat assessment, wetland delineation, data evaluation, identification and application of toxicity values from published sources, identification of chemical surrogates based on a comparative evaluation of chemical structure, evaluation of chemical-specific adverse effects/target organs in assessing cumulative hazards; use of biokinetic lead models, use of bioaccumulation models, and derivation of relative absorption factors based on review of published literature. Ms. McIntosh also conducted literature reviews of toxicological studies for use in deriving toxicological benchmarks for ecological receptors and prepared technical reports in support of regulatory submittals.

Quincy College, Quincy, MA
Fall 1997

Adjunct Professor

Ms. McIntosh taught introductory biology and anatomy and physiology courses to undergraduate students.

University of Massachusetts Boston
1995-1996

Research Assistant in Aquatic Toxicology Laboratory

Ms. McIntosh assisted with laboratory research on the vanadium-binding pigment, tunichrome, in the tunicate *Ascidia nigra*. Her responsibilities included setting up and assisting with laboratory procedures.

Education

University of Massachusetts Boston, Boston, MA
MS Environmental Science, with concentration in Aquatic Toxicology
May 1997

Eastern Nazarene College, Quincy, MA
BS Biology, with minor in Chemistry
May 1992

Professional Associations

Society of Environmental Toxicology & Chemistry: National (SETAC)

Society of Environmental Toxicology & Chemistry – North Atlantic Chapter (SETAC-NAC)

Board Member 2008-2009

Vice President 2009-2010

President 2010-2011

Licensed Site Professional Association

Society for Women Environmental Professionals

Regulatory/Professional Participation

Massachusetts Department of Environmental Protection: Ecological Risk Assessment Workgroup, MCP Standards Workgroup, Vapor Intrusion Workgroup

Environmental Business Council of New England. EBC Site Remediation & Redevelopment Program

SETAC and the Society for Ecological Restoration Joint Workshop: Restoration of Impaired Ecosystems: An Ounce of Prevention or a Pound of Cure. Jackson Hole, Wyoming. June 2014.

Publications and Presentations

McIntosh, L.M., Eagan, A.L., and Campe, L.J. 2014. Completing the puzzle: Piecing together data, remedial strategy and public communication to solve vapor intrusion issues, Paper # 32. Presented at the Vapor Intrusion, Remediation, and Site Closure Conference, September 10-11, 2014. Cherry Hill, NJ

McIntosh, L.M. 2013. A River Runs Through It: Defining Local Conditions in Support of Site Assessment. Licensed Site Professional Association (LSPA) Newsletter, Vol. 19, Issue 1. February.

McIntosh, L.M., Campe, L.J., and McCarthy, S. 2012. Dancing on the Head of a Pin – How do pre- and post-remediation indoor air concentrations compare to background concentrations? Platform presentation, Society of Environmental Toxicology and Chemistry – North Atlantic Chapter. Annual Meeting, June 8, 2012. West Greenwich, Rhode Island.

McIntosh, L.M., McCarthy, S., Campe, L.J., Trapp, C. and Hulstrom, L. Relationships between heavy metals and PCBs in sediment and fish tissue from the Hanford Reach in the Columbia River. Platform presentation, Society of Environmental Toxicology and Chemistry. Annual Meeting, November 2011. Boston, MA.

McIntosh, L.M., McCarthy, S., Campe, L.J., Trapp, C., and Hulstrom, L. Discerning patterns over 150 miles of data: a study of heavy metals in sediment and fish tissue from the Hanford Reach in the Columbia River. Platform presentation, Society of Environmental Toxicology and Chemistry – North Atlantic Chapter. Annual Meeting, June 9, 2011. Freeport, ME.

McIntosh, L.M. 2006. Importance of Consideration of Local Conditions in Environmental Risk Assessment. Licensed Site Professional Association (LSPA) Newsletter, Vol. 13, No. 1. April 2006.

McIntosh, L.M. 2004. Sediment Quality Assessment in Four Suburban Massachusetts Rivers. Platform Presentation, 20th Annual International Conference on Soils, Sediments, and Water. University of Massachusetts Amherst, October 18-21, 2004.

McIntosh, L.M. and Robinson, W.E., 1999. "Cadmium Turnover in the Hemocytes of *Mercenaria mercenaria*: (L.) in Relation to Hemocyte Turnover." Comp. Biochem. Physiol., Part C, 123: 61:66.

References

References are available upon request.