

EDUCATION

University of Victoria

Victoria, BC

Bachelor of Science Honours Degree (2007; combined Honours with Distinction:
Biology and Earth & Ocean Science)

Honours Thesis Title: Trends in copper availability limitations on the iron uptake
capacity of coastal and oceanic phytoplankton along a coastal to oceanic sub-Arctic
Pacific Ocean gradient

WORK HISTORY

Data Analyst

June 2009 - Present

MacDonald Environmental Sciences Ltd., Nanaimo, BC

Conduct focused assessments of environmental trends, injuries to ecological-receptors,
and comparisons to guidelines. Develop and operate large databases of environmental
quality information to facilitate such analyses. Create publishable text, tables, and
figures reporting on analytical results. Work collaboratively to achieve our team's
goals

Environmental Protection Technician

June 2008 - June 2009

BC Ministry of Environment, Nanaimo, BC

Operated and maintained continuous water quality and air quality monitoring stations.
Inspected industrial sites (cement manufacturing facilities, dryland log sort operations),
and municipal sewage treatment operations for compliance with environmental
regulations.

Environmental Impact Biologist

January - March 2008

BC Ministry of Environment, Nanaimo, BC

Co-ordinated the organization of field and lab data for 49 sites across British Columbia
as part of an extensive biomonitoring project. Exercised consistent precision and
accuracy entering all the above data into the Canadian Aquatic Biomonitoring
Network (CABIN) database.

Environmental Impact Assessment Student Biologist

May - December 2007

BC Ministry of Environment, Nanaimo, BC

Aided in field work for a variety of water quality monitoring and environmental
assessment programs throughout Vancouver Island Region. Included extensive boat
work and water chemistry and biological sampling of lakes, sediments, streams and
ocean. Assisted in maintenance of ambient air quality monitoring stations. Lead author

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for a community lake eutrophication study. Meticulous attention to detail working with large datasets.

Environmental Impact Assessment Student Biologist

September - December 2005

BC Ministry of Environment, Nanaimo, BC

Extracted contaminants (PCB/POPs) from biological samples. Maintained dataset of experimental results. Created an annotated bibliography of pertinent contaminant scientific literature. Updated the standard operating procedure. Trained successor in lab procedures.

HONOURS AND AWARDS

2005 - 2010 Canadian National Women's Cricket Team; 2007 - 2009 Americas Select XI Cricket Team; 2002 University of Victoria Faculty Association Entrance Scholarship (\$3000), Canadian Millennium Scholarship Local Laureate (\$4000); 2001 First Place Canadian Geographic Magazine creative writing competition - awarded position on expedition to Canadian Arctic and Greenland with 'Students on Ice'.

PUBLICATIONS

MacDonald, D.D., Sinclair, M. Crawford, H. Prencipe and M. Meneghetti. 2011. Potential effects of contaminants on Fraser River sockeye salmon. MacDonald Environmental Sciences Ltd. Cohen Commission Tech. Rep. 2. In prep. Vancouver, B.C.
www.cohencommission.ca

MacDonald, G.L. Linder, C.G. Ingersoll, S.E. Finger, M.A. Crawford, H.J. Prencipe, J.A. Sinclair, M.B. Meneghetti, and J.E. Hinck. 2010. Handbook for Assessing Risks to Fish and Wildlife Associated with the Potential Use of Water, Treated Wastewater, Stormwater, Sediment, Soil, Biosolids, or Other Materials on Units of the National Wildlife Refuge System. Volume I: Overview of the Recommended Decision Framework. Prepared for U.S. Fish and Wildlife Service. Vancouver, Washington. Prepared by MacDonald Environmental Sciences Ltd., Nanaimo, British Columbia and United States Geological Survey, Columbia, Missouri.

MacDonald, G.L. Linder, C.G. Ingersoll, S.E. Finger, M.A. Crawford, H.J. Prencipe, J.A. Sinclair, M.B. Meneghetti, and J.E. Hinck. 2010. Handbook for Assessing Risks to Fish and Wildlife Associated with the Potential Use of Water, Treated Wastewater, Stormwater, Sediment, Soil, Biosolids, or Other Materials on Units of the National Wildlife Refuge System. Volume II: Description of the Rapid (Tier 1) Assessment Process. Prepared for U.S. Fish and Wildlife Service. Vancouver, Washington.

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MacDonald, D.D., C.G. Ingersoll, M. Crawford, H. Prencipe, J.M. Besser, W.G. Brumbaugh, N. Kemble, T.W. May, C.D. Ivey, M. Meneghetti, J. Sinclair, and M. O'Hare. 2010. Advanced screening-level ecological risk assessment (SLERA) for aquatic habitats within the Tri-State Mining District, Oklahoma, Kansas, and Missouri. Draft Final Technical Report. Submitted to United States Environmental Protection Agency (USEPA). Region 6, Dallas, Texas, Region 7, Kansas City, Kansas, and US Fish and Wildlife Service, Columbia, Missouri. Submitted by MacDonald Environmental Sciences Ltd., Nanaimo, British Columbia. United States Geological Survey, Columbia, Missouri. CH2M Hill, Dallas, Texas

MacDonald, D.D., P. Landrum, J. Sanderson, C. Lafontaine, M. Crawford, H. Prencipe, M. Meneghetti, M.L. Haines, A. Czarnecki, D. Smorong, O. Forest, and J. Smejkal. 2010. Status and Trends of Environmental Quality Conditions in the Transboundary Reach of the Slave River, NWT. Draft Report. Prepared for Indian and Northern Affairs Canada. Yellowknife, Northwest Territories. Prepared by MacDonald Environmental Sciences, Nanaimo, British Columbia. Landrum and Associates, Ann Arbor, Michigan. Indian and Northern Affairs Canada, Yellowknife, Northwest Territories.