

## SUBJECT MATTER EXPERTISE

- Impact Assessment
- Marine Ecosystems and Habitat Impacts
- Science Communication
- Aboriginal Uses and Values / Environmental Effects of Development on Aboriginal Use
- Oil/Bitumen and Liquid Natural Gas (LNG) Transportation (Pipelines/Shipping)
- Project Accidents and Malfunctions / Risk Determination

## BACKGROUND/QUALIFICATIONS

Ms. Beckmann is an environmental consultant with more than 25 years of experience in environmental science and management, with an emphasis on using and communicating science for decision-making.

Leslie's professional career is focussed on working with First Nations and their legal counsel to review and respond to development. The goal of this work has been to ensure that Impact Assessment processes adequately address Indigenous concerns regarding the effects of development within their traditional territories.

This began in 2011 with work on behalf of the Gitxaala First Nation on the Northern Gateway Pipeline project. As part of this assignment, Leslie coordinated and edited an expert report on the fate and toxicology of spilled bitumen and presented it to the Northern Gateway Joint Review Panel as an Expert Witness. Since then, Leslie has worked with First Nations in British Columbia, Yukon, and Alberta to ensure that impact assessments of major resource extraction projects (bitumen, metals, metallurgical coal) and infrastructure construction (pipelines, ports facilities, flood and debris control structures) are conducted to adequately assess impacts to the natural systems that underpin their Indigenous rights and title.

Leslie is also the mother of a university-aged daughter studying geology, a published writer, and a career mentor for younger professionals.

## EMPLOYMENT HISTORY

2005 to Present	Senior Environmental Consultant, PGL Environmental Consultants, Vancouver, BC
2004 to 2005	Project Review Coordinator, Fraser River Estuary Management Program (FREMP) and Burrard Inlet Environmental Action Program (BIEAP), Vancouver, BC
1996 to 2000	Water and Land Use Coordinator, Fraser River Estuary Management Program (FREMP), Vancouver, BC
1994 to 1996	Marine Conservation Advisor and Manager, Marine Conservation Strategy Programme, Canadian Nature Federation(CNF)/Canadian Arctic Resources Committee (CARC), Vancouver, BC
1993 to 1994	Senior Advisor, UNCED Follow-up Task Group, Department of Environment, Government of Canada
1992 to 1993	Executive Assistant to the Senior Assistant Deputy Minister, Department of Environment, Government of Canada

## EDUCATION

M.A., Political Science and Environmental Studies  
**University of Toronto**  
Toronto, Ontario, 1992

B.Sc. (Hons.) Biology  
(Botany and Zoology)  
First Class Standing  
**Queen's University**  
Kingston, Ontario, 1988

## MEMBERSHIPS AND CERTIFICATION

WorkSafe Level 1 First Aid –  
October 2017 (valid for 3  
years)

Past Member of the Board,  
Canadian Parks & Wilderness  
Society (CPAWS) – BC  
Chapter

## SELECTED REPRESENTATIVE PROJECT EXPERIENCE

- Supporting **Simpcw Nation** as it develops a First Nations Independent Environmental Review Process for Major Projects occurring within its territory (2018 – ongoing).
- Supporting **Stoney Nakoda First Nation** in reviewing the habitat offsetting provisions for the Springbank Offstream Reservoir (SR-1) Project. (2021)
- Supporting **Coldwater Indian Band**, developing a collaborative management committee for alternative routing of the Trans Mountain Expansion Project that will route the pipeline around Coldwater's aquifer (2016-ongoing).
- **Sumas Dyke Modelling and Traditional Use Study (Sema:th First Nation)**: Project Manager and Traditional Use interpreter supporting modelling and design of flood stabilization works that enhance fish habitat and opportunities for Sema:th Nation to engage in traditional harvesting activities in the Fraser (Stó:lō) River. (2019, ongoing)
- **Technical Review and Environmental Advice, Tseil-Waututh First Nation**: Project Manager and client liaison for technical review and regulatory engagement on the Delta Grinding Facility Project to construct an industrial cementitious amendments plant and shipping infrastructure at Tilbury Island in the Fraser River. (2019, ongoing)
- On behalf of a number of **North Coast, South Coast, Interior BC, and Treaty 8 Nations** and **Simon Fraser University (SFU)**, project manager and discipline lead for third-party expert reviews of the following petroleum projects (2011 to present):
  - Northern Gateway Pipeline Project (Enbridge)
  - Trans Mountain Expansion Project (Kinder Morgan/Trans Mountain ULC)
  - Advanced Tri-Star Steam Assisted Gravity Drainage (SAG-D) Project (Value Creation Inc)
- On behalf of a number of coastal and **Treaty 8 Nations**, project manager and marine discipline lead for third-party expert reviews of the following LNG projects (2010 to present):
  - Shell/LNG Canada Project (LNG terminal)
  - Petronas/Pacific North West LNG Project (LNG terminal)
  - British Gas/Prince Rupert LNG Project (LNG terminal)
  - Terasen/Woodfibre LNG Project (LNG terminal)
  - Nexen/Aurora LNG Project (LNG terminal)
  - Woodside LNG Project (LNG terminal)
  - WCC LNG Project (LNG terminal)
- Engaged in third-party expert reviews of the following LNG projects for **two coastal First Nations** (2012 to present):
  - TransCanada/Prince Rupert Gas Transmission Project (LNG pipeline)
  - Spectra/West Coast Gas Transmission Project (LNG Pipeline)
  - Chevron/Apache Kitimat LNG Project (LNG terminal)
  - Vopak Pacific Canada (LPG storage facility)
- Lead reviewer for expert review of Ridley Terminal Inc. Berth Expansion Project on behalf of two **Tsimshian Nations** (2017 to present).
- Project Manager for independent third-party review of the Streambank Off-stream Reservoir (SR-1) Flood Control Project near Calgary, AB for behalf of the **Tsuut'ina Nation**. (2017-2018)
- Authored Strategic Environmental Impact Assessment of **Disposal at Sea** on behalf of a north coast First Nation to help determine whether and under what conditions ocean disposal might be acceptable in the Nation's traditional waters.
- Edited an expert report on the fate and toxicology of spilled bitumen in BC's north coast waters; sat as an **expert witness** at the Joint Review Panel Hearings (JRP) into the Northern Gateway Pipeline (NGP) Project on behalf of **Gitxaala First Nation**.
- Member of a team that conducted an Environmental Impact Assessment for BC's first **offshore wind** energy generation project.

- On behalf of **FREMP**, worked with federal, provincial and municipal governments to facilitate integrated management of environment and development activities along shoreline and upland areas of the lower Fraser River basin, including GIS mapping, foreshore zoning, and environmental monitoring.
- On behalf of two **national environmental non-governmental groups**, designed, managed and completed a \$200,000 program to gather public input, write, and recommend to Canada's Minister of Fisheries and Oceans the contents of a national *Oceans Act* and a National Strategy for Marine Conservation.
- Organized and facilitated five, two-day, 20-person, multi-stakeholder workshops across Canada (St. John's, Halifax, Iqaluit, Inuvik, Vancouver) to develop consensus on cooperative local, regional and national methods to manage marine ecosystems and resources.

### SELECTED PUBLISHED/PUBLICLY AVAILABLE NON-FICTION

- Beckmann, L.M., *Vessel Anchorages – Potential Environmental Effects in the Southern Gulf Islands*, 2018 (Submitted to the NEB Panel reviewing the TMEP on behalf of the Snuneymuxw and Stz'uminus First Nations)
- Beckmann, L.M., *Effects of Marine Shipping on Anadromous Species*, 2018 (Submitted to the NEB Panel reviewing the TMEP on behalf of the Coldwater Indian Band)
- Beckmann, L.M., *Potential Adverse Effects to Squamish Interests: Accidents and Malfunctions Associated with the Trans Mountain Expansion Project (TMEP)*, 2015 (Submitted to the NEB Panel reviewing the TMEP on behalf of Squamish Nation)
- Beckmann, L.M., *Potential Effects of Shipping Operations on Squamish Interests*, 2015 (Submitted to the NEB Panel reviewing the TMEP on behalf of Squamish Nation)
- Beckmann, L.M. and A. Shapiro, *Potential Effects of Diluted Bitumen Spills on Salmonid Species*, 2015 (Submitted to the NEB Panel reviewing the TMEP on behalf of the Squamish Nation)
- Beckmann, L.M. and M.G. Shum, *Trans Mountain Expansion Project (TMEP) Evaluation of Risks to SFU*, undated
- Beegle-Krause, C.J., B. Emmett., M. Hammond, J. Short, R. Spies, *Expert Opinion on Petroleum Tanker Accidents and Malfunctions in Browning Entrance and Principe Channel: Potential Marine Effects on Gitxaala Traditional Lands and Waters of a Spill During Transport of Bitumen from the Northern Gateway Pipeline Project*, L. Beckmann, ed. 2011 (Submitted to the Northern Gateway Pipeline Project Joint Review Panel on behalf of Gitxaala Nation.
- *Marine Strategy for the Asia Pacific Region* (with S. Baird, internal publication for the department of Fisheries and Oceans) Federal marine programming in the Asia-Pacific region. (Internal publication for the department of Fisheries and Oceans).
- *An inventory of cable and pipelines policy and infrastructure off the BC coast*. (Internal publication for the department of Fisheries and Oceans).
- *Estuary Management Plan Update*, Fraser River Estuary Management Program (FREMP)
- "Marine Conservation in Canada", *The Oceans Yearbook*, 1996. The Role of NGOs in Ocean Policy Oceans Policy in Canada, University of Calgary.
- *Seas the Day: Towards a National Marine Conservation Strategy for Canada*. CARC/CNF.
- "The Coldest Coast-Marine Issues in the North," *Northern Perspectives* 23(1): 2–4.
- "Marine Conservation in the Canadian Arctic", *Northern Perspectives* 22(2-3): 33–39.
- "Marine Conservation in the Canadian Arctic" (a paper presented at the 1994 Coastal Zone Canada Conference) in *Coastal Zone Canada '94 Conference Proceedings* eds. P.G. Wells & P.J. Ricketts Halifax: Coastal Zone Canada Association.