

Bruce David Maclean
B.Sc.

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Winnipeg, Manitoba
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Education:

Bachelor of Science, Environmental Science, University of Manitoba (1997)

Professional Experience:

Maclean Environmental Consulting

May 2011 – Present

Research co-ordination for the Athabasca Chipewyan First Nation
Training and establishment of Community-Based Monitoring programs

Project Manager

Centre for Indigenous Environmental Resources
Winnipeg, MB (2006-May 2011)

Managed staff to build the capacity of First Nations to deal directly with their environmental concerns through a multifaceted approach that includes education and training, targeted environmental research, restoration activities and facilitated workshops between rights holders.

- designed environmental monitoring programs to observe impacts from oil sands development as well as for sewage lagoon and landfill site inspections
- advised Chief and Councils in sustainable cattle development and on nutrient management options for their sewage lagoons.
- reviewed federal and provincial Environmental Assessments on behalf of First Nations to determine if they met provincial and federal regulations.
- reviewed current provincial and federal waste site regulations for the Manitoba region
- Interpreted elements of the Indian Act for research done for report to CEAA on the meaningful involvement of Aboriginal people in environmental assessment.
- developed and implemented workshops to ensure that a strong Traditional Knowledge foundation is used to inform conservation decision making by Environment Canada and Fisheries and Oceans Canada for Species At Risk in the designation of critical habitat
- developed and delivered monitoring programs using Traditional Knowledge for Mikisew Cree First Nation
- designed and led training programs in:
 - strategic planning
 - environmental monitoring
 - environmental assessment
- facilitated consultation workshops between First Nations and federal government
- provided fuel tank inventories in Quebec nursing stations to Health Canada
- delivered fish habitat assessment expertise to First Nations in Manitoba
- liaised, consulted and negotiated with First Nations, federal governments, provincial agencies, agricultural associations and producers on nutrient sustainability issues

- provided expert scientific advice to Chief and Council on the environmental impact of community infrastructure projects
- managed and supervised a project team consisting of 4 research associates for the delivery of the First Nations Fish Habitat program.
- Managed large multi-year budgets, developed agendas, briefing notes and position papers, generated communications products and reported on accomplishments

Aquatic Biologist

North/South Consultants Inc
Winnipeg, MB (2003-2006)

- planned, executed and delivered impact studies for proposed generating stations
- educated First Nation technicians in the application of field study methodologies
- sampled for lake sturgeon along the Nelson and Hayes rivers in northern Manitoba in conjunction with the environmental assessments for the proposed Conawapa and Keeyask generating stations
- coordinated fish community scientific investigation in Angling Lake, Manitoba, including acoustic tagging, mercury sampling and water chemistry analysis
- monitored the disturbance on fish and fish spawning areas and provided compliance monitoring of water quality in rivers and tributaries due to linear developments, including:
 - turbidity monitoring at Lake Manitoba Narrows for a Manitoba Hydro fibre optics line
 - turbidity monitoring and fish habitat monitoring on the Athabasca River open cut pipeline crossing by ATCO in Fort Assiniboine, Alberta
 - turbidity monitoring for Encana pipeline's directional drilling in Fort Nelson, Alberta
- delivered a creel study on Athapapuskow and Kississing lakes in northern Manitoba
- managed fly in research camps of 20 staff or more for research activities and day to day operations

Education Coordinator

City of Winnipeg
Winnipeg, MB (2001-2003)

- engaged youth and volunteers in riverbank restoration projects
- managed budgets and staff to maintain natural areas
- promoted the adoption of diverse beneficial management practices to improve the environmental performance of agricultural operations
- prepared briefing materials, managed budgets and supervised consultant contracts

Fisheries Biologist

Mexican National Government Department of Environment
Isla Contoy, Mexico (2000-2001)

- provided advice to Mexican government about the state of barrier reef ecosystem health
- completed a sustainable lobster fishing study and instigated sustainable lobster fishing programs
- devised a reef protection plan and monitoring study

Pipeline Integrity Consultant

J.E. Marr and Associates - Calgary, AB
Calgary, AB (1997 – 1999)

- investigated pipeline integrity for Transcanada Pipelines
- provided expert risk assessment on stress corrosion data to WestCoast Energy

Selected Publications:

Meaningful Involvement of Aboriginal Peoples in Environmental Assessment, Centre for Indigenous Environmental Resources, Series 2006.

Computer skills:

I am proficient in using email and all Microsoft programs.

Languages:

Fluent in English, French and Spanish.

Communications:

- strong technical report writing skills and am effective at communicating in briefing notes, emails and letters.
- experience delivering presentations to large audiences and am comfortable communicating orally in English, French and Spanish.
- Presentations to the Manitoba Conservation District Association Annual meeting, the Lake Winnipeg Research Consortium, and to Mikisew Cree First Nation.

Interpersonal skills:

I have strong interpersonal skills through project work at CIER and through work on the Mining Watch Canada, Board of Directors. One of these skills is showing initiative, by developing strategic plans to anticipate and formulate project goals. I am dependable with sound judgment as a team player and am relied on to lead project teams, with a style based on action management.

Training:

Water Quality Sampling and Design (2011)		Vancouver Island University
Fundamental of Successful Project Management(2009)	-	SkillPath
Practical Workshop Facilitation Skills (2008)	-	University of Winnipeg
Participatory Action Research (2008)	-	Natural Resources Institute
Environmental Assessment Awareness and Referral Training (2008)	-	Department of Fisheries and Oceans
Culture and Conflict (2008)	-	Mediation Services
Strategic Planning - Advanced (2007)	-	Aboriginal Leadership Institute
Pangnirtung, Nunavut - Inuit Traditional Knowledge6 week field study (2002)		-University of Manitoba

Certificates:

CRITI CARE EMS Advanced First Aid (2006)

Marine Emergency Duties - Level A3 commercial boating certification (2005)

Advanced SCUBA diver certification (1999)

Boards:

Mining Watch Canada – Board of Directors (2009-present)