



DEHCHO FIRST NATIONS

Box 89, Fort Simpson, N.W.T. X0E 0N0
Tel: (867) 695-2355/2610 Fax: (867) 695-2038
E-mail: dcfn@dehcho.org



Sent via email

June 10, 2016

Mackenzie Valley Environmental Impact Review Board
PO Box 2130
Yellowknife, NT X1A 2P6
Chuck Hubert

RE: Canadian Zinc All Season Road Technical Sessions

Dear Mr. Hubert,

Dehcho First Nations (DFN) is pleased to provide the attached CV for the technical expert, who will be attending the technical sessions (June 13 – 16) for the above noted project. DFN looks forward to continued participation in this environmental assessment.

Thank you,

Carrie Breneman (on behalf of)

Dehcho First Nations

**Experience
Highlights:**

I am an environmental professional with over ten years experience in resource management activities, environmental assessment and research projects.

I have specific experience in:

- Working in the Yukon, Northwest Territories and Nunavut;
- Working for and with First Nations governments;
- Reviewing resource management projects;
- Conducting research on behalf of clients including First Nation governments;
- Participating in land use planning and protected area strategies;
- Managing budgets, timelines, staff time and delivery of reports to clients; and
- Working with a variety of individuals and organizations, including the public sector (federal and provincial government organizations), private sector and First Nation groups, to achieve shared goals.

**Academic
Qualifications:**

2005 - Master of Science, University of Calgary, Faculty of Geography

2002 - Bachelor of Science (Honours), University of Calgary, Faculty of Geography

Work Experience:

Crowberry Environmental Consulting – Dawson City, YT

Position: Principle & Environmental Consultant

Duration: 2013 - 2016

- Reviewed and provided comments on Mackenzie Valley Land and Water Board submissions on behalf of Dehcho First Nations (DFN). Project work included:
 - Technical review of the resource development projects for potential environmental issues;
 - Communicating potential environmental issues and providing advice and guidance to Chief and Council and other relevant stakeholders; and
 - Providing comments on resource development projects to the Mackenzie Valley Land and Water Board.
- Reviewed and provided comments on a water license amendment and land use permit for the North American Tungsten Corporation Ltd Drystack Tailings Application on behalf of DFN. Project work included:
 - Reviewing the water license amendment;
 - Representing DFN at the technical session for the water license amendment; and

- Representing DFN at the public hearings for the water license amendment.
- Reviewed and provided comments on the water license amendment for increased wastewater discharge for the North American Tungsten Corporation Limited on behalf of DFN.
- Reviewed and provided comments on the Species At Risk Committee's Wolverine Species at Risk Status Report on behalf of DFN.
- Reviewed the Groundwater Monitoring Study results from Enbridge's pipeline spill on Willowlake River, NWT on behalf of DFN.
- Reviewed Strategic Oil and Gas' Cameron Hills' site Waste Management Plan on behalf of DFN.
- Reviewed the proposed Fibre-Optic Cable link from Inuvik to Fort Simpson on behalf of DFN.
- Provided technical writing support on a portion of the Fortymile Caribou Management Plan for the Yukon Government.
- Prepared written communications on resource management related issues including briefing notes, reports, letters to the Mackenzie Valley Land and Water Board, the Minister of Environment, and community updates for DFN members.
- Prepared an executive summary of the Dawson Resource Assessment Report for the Dawson Regional Land Use Planning Council.
- Provided project support for the Shell Carmon Creek Project Wildlife Mitigation and Monitoring Report. Project work included researching and writing a component of the report.
- Provided project support for the Tulita Community Readiness Plan on behalf of Canadian Northern Development Agency.

Dehcho First Nations - Fort Simpson, NT

Position: Resource Management Coordinator

Duration: 2010 and 2012

Coordinated resource management and environmental assessment activities. Project work included reviewing and coordinating DFN's response to development projects, representing DFN on Protected Area Strategy meetings, researching and reviewing technical documents, writing funding applications and providing guidance to stakeholders.

- Coordinated DFN's participation on the proposed Edehzhie Protected Area and the Buffalo Lakes and Rivers Protected Area. Project work included coordinating a meeting of chiefs and affected stakeholders, attending planning meetings, preparing letters requesting the establishment of the protected area to the Federal Minister of the Environment and providing advice and guidance to Chief and Council.
- Represented DFN on the Northern Contaminants Program (NCP). Project work included attending monthly conference calls and providing advice and guidance to affected stakeholders.

- Reviewed and responded to development projects that required permitting through the Mackenzie Valley Land and Water Board. Project work included reviewing development projects for environmental impacts and responding on behalf of DFN.
- Provided DFN's response to the 2010 Environmental Audit of the Northwest Territories.
- Provided advice and coordinated DFN's response to the proposed Canadian Zinc Corporation's Prairie Creek Mine development. Project work included coordinating a technical third-party review of the Environmental Assessment, reviewing the Environmental Assessment for potential environmental issues and communicating potential environmental issues and providing advice and guidance to Chief and Council and other relevant stakeholders.
- Reviewed and responded to development projects that required permitting through the Mackenzie Valley Land and Water Board. Project work included reviewing development projects for environmental impacts and responding on behalf of DFN and member communities.
- Reviewed and provided comments on behalf of DFN on the Mackenzie Valley Land and Water Board's (MVLWB) Engagement Policy and the Land Use Permitting Process documents.
- Attended DFN's Annual Assembly and Executive Meetings.
- Prepared written communications on resource management related issues including briefing notes, reports, letters to the Mackenzie Valley Land and Water Board, the Minister of Environment, and community updates for DFN members.
- Identified key resource managements issues for DFN and prioritized work load to address issues.
- Networked, worked with and communicated on resource management issues with the 10 communities and 13 organizations represented by DFN.
- Networked and worked with Government organizations and boards such as Aboriginal Affairs and Northern Development Canada (AANDC), the Northern Contaminants Program, the Canadian Wildlife Service, the Mackenzie Valley Land and Water Board, the NWT Protected Area Strategy, NWT Environment and Natural Resources, the Mackenzie Valley Environmental Impact Review Board and the Department of Environment.

Integrated Environments – Calgary, AB

Position: Environmental Scientist

Duration: 2007-2009

Conducted research and provided advice for the environmental and social management of industrial development. Project work included Aboriginal consultation, environmental planning, preparing regulatory applications, reviews of Environmental Impact Assessments and researching environmental regulatory frameworks. Duties also included preparation of proposal applications; managing budgets, timelines and personnel; and delivery of reports to the client.

- Environmental planner for the Conservation and Reclamation Plan on the Williams C2+ Pipeline Project (2008). Duties included analyzing initial field reports and technical information on vegetation, wildlife, watercourse crossings, terrain and soils.
- Environmental planner for environmental regulatory applications for projects in Northern Alberta on behalf of FireCreek Resources (2008). Duties included researching and analyzing environmental information impacted by oil and gas development, mitigating environmental impacts and preparing regulatory applications.
- Project advisor on the Arctic Shipping Assessment Report on behalf of Indian and Northern Affairs Canada (2008).
- Project analyst on Aboriginal Consultation activities including Traditional Land Use Studies, Traditional Ecological Knowledge Study, Consultation Report and Consultation Plan for the Environmental Assessment Application for the Northern Rockies Secure Landfill Project on behalf of Canadian Crude Separators (2008).
- Environmental planning advisor for Petro-Canada for gas development in Alberta, Saskatchewan, British Columbia and Northwest Territories (2008). Project work included:
 - Initial siting of wells and pipeline locations;
 - Research and constraints mapping of watercourses, vegetation, wildlife, soils, and historical resources;
 - Site assessments of proposed development which included mitigation and avoidance of site specific impacts on natural resources;
 - Site visit with regulators from the Ministry of Environment in Saskatchewan to address environmental impacts;
 - Working with multi-disciplinary groups (including Petro-Canada engineers and public relations advisors, Alberta Environment and Alberta Sustainable Resource Development) to achieve a common objective of mitigating the environmental impact of oil and gas development; and
 - Preparation and review of environmental regulatory applications including conservation and reclamation plans, environmental protection plans and environmental field reports.
- Project advisor on Aboriginal Consultation Costs and Benefits on behalf of the Canadian Association of Petroleum Producers (2008). Project work included:
 - Conducting an online survey and interviewing Oil and Gas producers in Alberta on the costs and benefits of Aboriginal Consultation in Alberta; and
 - Analysis of survey and interview results, including preparation of a final report to the Canadian Association of Petroleum Producers.
- Project analyst on Aboriginal Consultation for the Athabasca Oilsands on behalf of Fisheries and Oceans Canada (2008). Project work included:
 - Providing information about Aboriginal groups in the Athabasca Oilsands and information on methods to engagement groups; and
 - Assisting in providing Aboriginal Consultation Awareness presentation to senior staff.
- Project analyst, 3rd party technical and regulatory review of Deer Creek Ltd Joslyn Mine Project on behalf of the Mikisew Cree (2008). Project work included reviewing Environmental Impact Assessments.

- Project analyst on the Environmental and Social Governance in Petroleum Producing Countries on behalf of the World Bank Petroleum Governance Initiative (2007/2008). Project work included:
 - Developing a survey and a benchmark standard for National environmental management regimes which included information on environmental law and regulations, enforcement, best practices and environmental assessments; and
 - Implementing an online survey for over 30 countries to compare environmental management regimes.
- Technical and Project support, 3rd party technical and regulatory reviews of the Shell Carmon Creek heavy oil project and the CNRL Kirby Oil Sands Project on behalf of Alberta Environment (2007/2008). Project work included:
 - Reviewing two Environmental Impact Assessments (EIAs) of heavy oil sands projects on behalf of Alberta Environment;
 - Preparing Supplemental Information Requests on behalf of Alberta Environment; and
 - Co-ordinating multi-disciplinary project teams including members of Alberta Environment and technical experts on air quality, surface water, ground water, soils and vegetation and regulatory experts.
- Project Analyst on Mackenzie Gas Project Investment Fund (MGPIF) with the Pipeline Readiness Office (2007). Project work included:
 - Providing project support for Phase 1 of the MGPIF; and
 - Coordinating and meeting with the Executive Director of the Dehcho and steering committee members on the Phase 1 report.

United Nations Environment Programme – Regional Seas - Nairobi, Kenya

Position: Programme Assistant

Duration: 2007

Assisted in the overall coordination of the Regional Seas program, including the Regional Seas Conventions and Action Plans, and related global agreements.

- Coordinated the “Marine Litter Initiative” at the UNEP Regional Seas Programme. Management of the activities for the control and sustainable management of marine litter for eleven international regions.
- Project Coordinator on the production of 22-minute BBC EarthReport on UNEP’s Marine Litter Initiative.
- Attended the Basel Convention Conference of Parties on behalf of UNEP Regional Seas Programme.

TERA Environmental Consultants – Calgary, AB

Position: Environmental Planner

Duration: 2006

Researched land use information relevant to environmental planning and management of oil and gas development. Planned, implemented and evaluated the environmental management of oil and gas development.

- Environmental Planner on the 26km TransCanada Pipelines Ltd “Thunder Extension Pipeline” (2006) – Conducted baseline wildlife surveys, conservation and reclamation report, environmental field reports.
- Environmental Planner on the Alberta Sustainable Resource Development “Little Smoky Caribou Calf Project” (2006) – Logistics & field support

- Environmental Planner for EnCana Oil Development in Southern Alberta and Canadian Forces Base Suffield (2006) – Environmental planning and wildlife surveys

Canadian Arctic Shelf Exchange Study – Franklin Bay, NT

Position: Project Researcher
Duration: 2003-2005

Project Researcher on the Canadian Arctic Shelf Exchange Study (2003-2005), a \$40M Canadian led effort to understand the biogeochemical and ecological consequences of sea ice variability and change on the Mackenzie Shelf.

- Worked with researchers and Inuvialuit Wildlife Observers to collect data on snow, sea ice and polar bear properties in the Beaufort Sea.

Foothills Climate Analysis Facility: Centre for Alpine & Arctic Research – Calgary, AB

Position: Research Assistant
Duration: January 2003 – May 2003

Analysis of remote sensed data to derive the timing of melt onset on sea ice for the purpose of monitoring climate change in Arctic regions, synthesis of snow, sea ice and remote sensing data.

Department of Geography – University of Calgary – Calgary, AB

Position: Research Assistant
Duration: January 2002 – May 2002

Synthesized multi-year climate data for the Canadian Rockies and conducted remote backcountry glaciology field work in the Canadian Rockies.

Department of Geography – University of Calgary – Calgary, AB

Position: Research Assistant
Duration: May – June 2001 & 2002

Assisted on the Collaborative Interdisciplinary Cryospheric Exchange (C-ICE) project (2001 - 2002) focused on climatology, sea ice, arctic ecosystem and remote sensing studies in the Canadian Arctic Archipelago.

Research Projects:

Assisted on the Northern Sage Steppe Conservation Initiative (2005 - 2006), an international research and ecosystem management based conservation project.

Assisted on the Greater Kluane Grizzly Bear Cumulative Effects Project (2002) an initiative led by EarthWatch, the University of Calgary and Kluane National Park & Reserve (KNPR) to develop a cumulative effects model for grizzly bears in KNPR.

References available upon request