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EDUCATION

Advanced Diploma in GIS

Vancouver Island University, Nanaimo, British Columbia

Bachelor of Tourism with a Major in Recreation, *With Distinction*

Vancouver Island University, Nanaimo, British Columbia

*Strong personal emphasis on Sustainable Community Development

EMPLOYMENT HISTORY

Database/GIS Specialist MacDonald Environmental Sciences Ltd. April 2009 to present

- **Design and develop project databases:**

Acquire and evaluate candidate data sets relative to selection criteria; Participate in the identification of key indicators of environmental quality conditions (i.e., data types; e.g., water chemistry, whole sediment chemistry, tissue chemistry, whole sediment toxicity, benthic invertebrate community structure) and metrics (e.g., concentrations of specific chemicals of potential concern; amphipod survival, etc.); Collaborate on the design of flat file and relational databases that satisfy project requirements; Populate databases through data entry from hard copy sources and/or data translation from electronic files; Develop and manage MESL proprietary databases, including the biological effects database for sediments (BEDS), sediment toxicity database (SedTox), and benthic effects database; Conduct data verification in accordance with MESL standard operating procedures; Conduct database auditing procedures to assure internal consistency of data organization;

- **Design and develop project GIS systems:**

Collaborate on the design of GIS requirements that satisfy project requirements; Conduct spatial analysis (GIS; developing project base maps, designing and conducting spatial analyses, preparing maps, etc.);

- **Conduct data analyses:**

Conduct various database queries and associated data and statistical analyses using various software programs, to assess risks to ecological receptors and/or damages to natural resources; Conduct procedures to satisfy internal QA/QC plans; Assist with the preparation of project reports

GIS Student Intern, Project Watershed, Courtenay B.C

January – March 2009

Worked alongside Don Chamberlain, Mid Vancouver Island Habitat Enhancement Society (MVIHES) and D.R. Clough Consulting. Performed valuable GIS skills revolving around the Qualicum/Parksville area. Produced accurate digitizing, critical thinking, interpreting amateur GPS coordinates and notes into a useful shoreline inventory and data dictionary. Produced numerous attractive and clear maps for a variety of different areas of focus. Worked in the Community Mapping Network online atlas entering and altering data.

Marketing Coordinator, Tourism Vancouver Island, Nanaimo B.C.

2007 - 2008

Prepared marketing reports and budgets, created promotional material, worked and coordinated between publications and stakeholders, arranged marketing meetings, prepared Association for consumer shows, spokesperson at consumer shows, summarized research, corresponded with the public.

Planning Assistant, District of Ucluelet, Ucluelet B.C.

May 2006-August 2006

Worked along side world renowned Planner (Felice Mazzoni), built a Riparian Area Bylaw, created community informational brochures, collected community input, created an

Affordable Housing Management Plan, involved with Council, operated numerous open houses and public hearing opportunities for the community.

***UN International Awards for Liveable Communities**, Hangzhou China
Represented Ucluelet and Malaspina University College (Nov. 2006)

Awards:

Most Sustainable Community

Gold - Project Presentation – Ucluelet’s OCP

Second - Most Liveable Community under 20,000 people

***Union of British Columbia Municipalities (UBCM), Community Excellence Awards**

Submitted a winning report in the category of *Partnerships, Leadership, and Innovation*.

SKILLS

- **GIS Skills:** ArcGIS, ArcMap, ArcInfo, ArcCatalog, Geomatica, GPS, ArcPad
- **Trained Computer Skills:** Excel, Access, Word, SPSS, Power Point,
- Clear phone communicating skills
- Leadership and Organizational skills

ABILITIES

- **GIS Abilities:** Spatial Analysis, Remote Sensing, Digital Image Processing, Georeferencing etc.

CERTIFICATIONS

- First Aid and CPR- Emergency Level – Industrial
- Fitness Instructor (BCRPA Certified)
- Group Fitness (BCRPA)
- Class IV Drivers License

Awards

- International Awards for Liveable Communities –United Nations (2007)
- BC Co-op Student of the Year (2007)
- UBCM award for Ucluelet report (2007)

Volunteer Experience

- **Islands Trust** – Research Student
- **Edge to Edge Marathon** – Ucluelet, BC
- **Global Film Fest** - Malaspina University College
- **Homeless Shelter** - The Mustard Seed, Calgary, Alberta
- **Malaspina Recreation and Tourism Association (MRTA)** - Executive
- **2010 Sport Fest Event** – Spirit of BC, Pre-Olympic community event

PUBLICATIONS

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. 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 III: Description of Detailed (Tier 2) Assessment Process. 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, 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.