



Work Experience

Terra Erosion Control Ltd., Nelson, British Columbia
Owner / Manager - 1996 to Present

- Biotechnical stabilization and erosion control implementation and planning for riparian restoration including in stream placement of root clusters.
- Implementation of riverbank restoration and stabilization projects using vegetated rip rap, woody and aquatic vegetation.
- Installation and design of sediment traps, coffer dams and turbidity curtains in urban river settings.
- Access trail and ramp development within urban ravines in sensitive riparian areas.
- Soil stabilization using biotechnical methods on eroded and unstable slopes.
- Specialized erosion control project planning and implementation on oil and gas pipeline rights of way
- Rehabilitation of mine dump reconstructed water way using soil bioengineering techniques to create wildlife habitat and control surface soil erosion.

Terra Erosion Control Clients (partial list):

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| Amec Earth Environmental Ltd. | B.C. Ministry of Environment |
| Klohn Crippen Consultants Ltd. | B.C. Ministry of Forests |
| Morrow Environmental Consultants Inc. | B.C. Ministry of Transportation |
| Stantec Consulting Ltd. | |
| Terracon Geotechnique Ltd. | |
| | Downie Street Sawmills Ltd. |
| Fort McKay Environmental Services | Pope and Talbot Ltd. |
| Syncrude Canada Ltd | Tembec Industries Inc. |
| Transportadora de Gas del Peru S.A. | |
| | City of Edmonton |
| B.C. Hydro | |
| Columbia Basin Power Projects | Teck Cominco Metals Ltd |
| Fortis BC Inc. | |
| Skanska Chant - Brilliant Dam Joint Venture | Canadian Pacific Railway Ltd. |



Appropriate Forestry Services Ltd., Kaslo, B.C., Forestry
Technician / Minor Shareholder - 1991 to 1995
Implementation Contract / Kootenay Lake Forest District, North Zone

- Contract supervision and administration: planting, mechanical brushing & weeding, juvenile spacing and mechanical site preparation / soil and site sensitivity data collection.
- Layout of treatment boundaries and silviculture prescriptions.
- Minor road layout including culvert location and road building supervision.
- Silviculture surveys: regeneration, multilayer, pre-stand tending, free growing and forest health assessment Silviculture survey audits.
- Wildlife habitat, hydrology and recreation assessments (within silviculture management units).
- Mapping and data processing to BC Forest Service standards.

Education

Renewable Resource Program Diploma
Selkirk College, Castlegar, BC, September 1988 - May, 1990

Short courses and workshops completed in the past 10 years:

- Soil Microbiology, I.E.C.A, Orlando, 2008
- Sustainable Native Plant Establishment, Bioengineering Monitoring Methods, I.E.C.A, Orlando, 2008
- Compost tea for Site Rehabilitation (workshop), Nelson, BC, 2007
- Wind Erosion Control Systems, I.E.C.A, Long Beach, 2006
- Processes and Technologies for Stabilizing Stream banks and Restoring Rivers, I.E.C.A, Dallas, 2005
- Introduction to Fluvial Geomorphology, I.E.C.A, Dallas, 2005
- Biotechnical Soil Stabilization for Slopes and Stream banks, I.E.C.A, Las Vegas, 2003
- How to Establish, Select and Use Plants for Erosion Control, I.E.C.A, Las Vegas, 2003
- Terrain Stability and Forest Management in the Interior of BC, BC Ministry of Forests, Nelson, 2001
- Interior Watershed Assessment Procedure Review, BC Ministry of Forests, Kamloops, 2000
- Wildlife/Danger Tree Assessor's Course, BC Forestry Continuing Studies Network, Castlegar, B.C., 2000
- Fish Habitat Rehabilitation Workshop, BC Ministry of Environment, Chilliwack, BC, 1999



Conference presentations made in the past 10 years:

- "Soil Bio-engineering Applications for Slope and Riverbank Protection: Experiences from Western Canada" Sharing of Soil Bioengineering Experiences Seminar, Kathmandu, Nepal, 2009
- "Teck Cominco Riverbank Restoration Project", International Conference on Ground Bio- and Eco-Engineering, Beijing, China, 2008.
- "Biotechnical Slope Stabilization using a Spyder Hoe on a Steep Slope Failure", 10th International Symposium on Landslide and Engineered Slopes, Xi'an, China, 2008.
- "Bioengineering for Stream bank and Gravel Bars", International Erosion Control Association annual conference, Long Beach, 2006.
- "BioTechnical Slope Stabilization using a Spyder Hoe, Walkers Landing Site", International Erosion Control Association annual conference, Las Vegas. 2005.
- "Biotechnical Slope Stabilization using a Spyder Hoe on a Steep Slope Failure", International Conference on Eco-Engineering, Thessaloniki, Greece, 2004.
- "Biotechnical Stabilization of a Landslide, Case Study: Sheep Creek, British Columbia, Canada", International Erosion Control Association annual conference, Las Vegas, 2003.
- "BioTechnical Slope Stabilization of Heart Creek Landslide", International Erosion Control Association annual conference (Pacific Northwest chapter, IECA), Stevenson, Washington, 2003.
- "Soil Bioengineering / Riparian Restoration on Challenging Sites", (Pacific Northwest chapter, IECA), Tacoma, 2001.

Language Skills

- English: reading, writing and speaking: excellent
- French: reading, writing and speaking: excellent
- Spanish: reading, writing and speaking: fair

References and further detail

- Available on request