



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):

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.	New Brunswick Department of Transport.
Terracon Geotechnique Ltd.	
Cemagref, France	
	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
	City of Calgary
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

Sample of short courses and workshops completed in the past 10 years:

- Sustainable Native Plant Establishment, Bioengineering Monitoring Methods, I.E.C.A, Orlando, 2008, 2011
- Soil Microbiology, 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

Sample of conference presentations made in the past 10 years:

- “Vegetated Riprap Installation Techniques for Watercourse Erosion Protection, Fish and Wildlife Habitat Creation” and “Soil Bioengineering for Control of Soil Erosion in a Reconstructed Waterway on an Alberta Oil Sands Overburden Dump”, European



Geosciences Union General Assembly, Vienna, Austria, 2011.

- "Vegetated Riprap Installation Techniques for Watercourse Erosion Protection, Fish and Wildlife Habitat Creation" and "Soil Bioengineering for Control of Soil Erosion in a Reconstructed Waterway on an Alberta Oil Sands Overburden Dump", International Erosion Control Association annual conference, Orlando, Florida, 2011.
- "Soil Bioengineering for Control of Soil Erosion in a Reconstructed Waterway on an Alberta Oil Sands Overburden Dump", 34th annual British Columbia Mine Reclamation Symposium and 35th annual Canadian Land Reclamation Association Meeting, Courtney, BC, 2010.
- "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.
- "Teck Cominco Riverbank Restoration Project" International Erosion Control Association annual conference, Orlando, Florida, 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 details

- Available on request