

water resources

- Water supply and demand
- Hydrologic studies
- Watershed assessments
- Stream crossing design and culvert sizing
- Mountain pine beetle and post-wildfire impacts
- Flooding and erosion studies
- Sediment transport investigations
- Stream and fish habitat restoration
- Streamflow monitoring
- Snow and ice studies
- Drainage plans
- Erosion and sediment control plans
- Water quality monitoring
- Streamside (riparian) protection plans
- Environmental Impact Assessment
- Environmental permitting
- Environmental monitoring

earth science

- Air photo analysis
- Surficial geology and soils
- Terrain & terrain stability mapping
- Natural hazards
- Aggregate sources
- Stormwater and sewage disposal sites
- Bioterrain (ecosystem) mapping
- Independent quality assurance review
- Soil sampling
- Shoreline erosion studies



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Established in 2004, Polar Geoscience is an independent consulting firm that provides specialized water resource and earth science consulting services to various public and private sector clients throughout British Columbia and Alberta.



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*Water Resources &
Earth Science Specialists*

service

forestry energy transportation
mining property development
government first nations other
organizations

dedication

Polar Geoscience is dedicated to consistently:

- 1. Delivering high quality professional water resource and earth science consulting services.*
- 2. Providing a high level of personalized service.*
- 3. Operating in an environmentally, socially, and ethically responsible manner and encouraging our clients to do likewise.*
- 4. Maintaining highly competitive rates by minimizing overhead, streamlining operations, and using innovative approaches when and wherever possible.*

Lars Uunila, M.Sc., P.Geo. (BC), P.Geo. (AB), P.H., CPESC is a hydrologist and geoscientist with a strong and diverse background in hydrology, hydraulics, water supply and demand analyses, fluvial and hillslope geomorphology, sediment transport modelling, erosion and sediment control, channel restoration, and ice and snow processes. Lars has conducted countless hydrologic, watershed and stream assessments throughout British Columbia and is sought by clients for his environmental knowledge and experience across a wide range of disciplines.

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experience

Polly Uunila, P.Geo. is a geoscientist who specializes in the field of geomorphology. Polly has earned a province-wide reputation for high quality air photo interpretation, surficial geology, terrain stability, and natural hazards mapping. In over 14 years, Polly has mapped in detail well over one million hectares of land across British Columbia. Polly is also experienced in bioterrain, sensitive ecosystem and aggregate potential mapping as well as riparian assessments and environmental monitoring.

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