



Trinity Consultants Canada is a leading environmental consultancy that brings together trusted advisors, scientists and engineers to help clients solve their most complex challenges. With deep local roots and the strength of a global organization, Trinity Consultants Canada delivers innovative, scientifically sound and future-ready solutions that help industry, government and Indigenous communities navigate complex regulatory landscapes, secure project permits and approvals to achieve better environmental outcomes. They are internationally respected leaders with decades of proven expertise in Water & Ecology, Environmental Health and Safety (EHS), Built Environment and Life Sciences.

Our Water & Ecology teams are recognized leaders in environmental assessment, permitting and monitoring, offering key services to sectors including renewables, mining, ports and terminals, marine shipping, linear development, liquefied natural gas (LNG), ecological restoration, municipal wastewater, energy, and forestry.

## Our Expertise

Trinity Consultants Canada provides expertise in the design and implementation of aquatic toxicity and supporting studies that consider applicable guidelines, policies, and client-specific and industry-specific permitting requirements to ensure accurate and clearly communicated assessments. Our aquatic toxicologists are experts in evaluating contaminant-specific effects on aquatic algae, invertebrates, fish, amphibians, and birds. We draw on experience in specialized fields of ecotoxicology and water quality modelling to evaluate the potential for project-related influences on biota.

The bioavailability (and therefore toxicity) of compounds can be substantially modified by site-specific physical, chemical, and biological factors (e.g., chemical complexation and competition, specific biota sensitivities). Our expertise includes knowledge of these modifying factors and their complex interactions, and the design of bioavailability/toxicity evaluations that provide multiple lines of evidence to efficiently support a site-specific assessment of the actual or potential for adverse effects in the aquatic environment. Our Impact Assessment and Toxicology specialists also provide expertise in the characterization of overall impacts to aquatic ecosystems in response to stressors, both small and large-scale. Our experience with aquatic impact assessment includes both planning and implementing immediate post-impact responses as well as managing ongoing monitoring programs that assess temporal changes.



## Our Services

- Effluent and receiving water toxicity evaluations
- Sediment toxicity evaluations
- Sediment chemistry and geochemistry evaluations
- Site-specific water quality objective development
- Organism-specific toxicity evaluations
- Ecological risk assessment for aquatic biota
- Assimilative capacity / impact assessment studies
- Receiving water-based effluent limit development
- Tissue chemistry evaluations
- Permit applications for water use, consumption, and waste discharge

### CONTACT OUR TEAM!

For more information about how we can help your organization, please contact us.

**Trinity Consultants Canada | Water & Ecology**  
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