

## Aquatic Toxicity Studies

Trinity Consultants' Minnow Aquatic Environmental Services (Minnow) team of aquatic toxicologists provides expertise in the design and implementation of aquatic toxicity studies that consider applicable guidelines, policies, and industry-specific permitting requirements to ensure deft negotiation of Federal and Provincial regulatory landscapes.

Minnow toxicologists are experts in evaluating contaminant-specific effects to aquatic algae, invertebrates, fish, amphibians, and birds. We draw on experience in specialized fields of eco-toxicology and predictive water quality modelling to evaluate the potential for project-related influences on biota while considering site-specific modifying physical, chemical, and biological factors that can affect bioavailability and toxicity (e.g., chemical complexation and competition, specific biota sensitivities). Through our understanding of the various complex factors that can affect toxicity and incorporation of various tools within our studies, our experts are able to provide multiple lines of evidence to support a site-specific assessment of contaminant effects ensuring cost-efficiencies for our clients.

### Our Services

- ▶ Effluent and receiving water toxicity evaluations
- ▶ Sediment toxicity evaluations
- ▶ Site-specific water quality objective development
- ▶ Organism-specific toxicity evaluations
  - Fish egg incubation / hatching success studies
  - Long-term fish health studies
  - Amphibian health effect studies
  - Aquatic bird health effect studies
  - Invertebrate effect studies
- ▶ 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



For more information about our Aquatic Toxicity services, contact us today!

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