

## Environmental Flows

Trinity Consultants is a leading global environmental consulting firm that brings 50 years of experience providing services and solutions in the EHS Regulatory Compliance, Water & Ecology, Built Environment, and Life Sciences markets. Trinity has the technical expertise, industry depth, and specialized capabilities to help clients achieve their goals across the natural and built environments.

Minnow and Ecofish, both Trinity Consultants companies, are recognized leaders in environmental assessment and monitoring, offering key services to industry, government and First Nations. With extensive experience gained from hundreds of successful project assignments, and a unique perspective gained by writing environmental guidelines on behalf of government, we offer proven problem-solving expertise to the mining, energy, forestry, LNG, linear development, and ecological restoration sectors.

Our team provides specialized services to support clients in developing sustainable water management practices. We have extensive experience in the assessment, mitigation, and monitoring of flow-related effects to the aquatic environment. We have built our reputation in the industry by developing tailored solutions that blend two decades of experience with in-house data and modeling capacity, allowing us to provide cost-effective and successful support for projects that will affect stream hydrology. We have supported numerous clients by characterizing the existing environmental conditions and conducting objective, science-based assessments, engaging with Indigenous peoples, regulators, other project stakeholders, and collaboratively developing water management practices that minimize effects to the aquatic environment.

### Our Services

- ▶ Environmental Flow Needs (EFN) assessments for short-term water use (Section 10 of WSA) and long-term conditional water licences
- ▶ Screening-level assessments to inform project design and identify environmental and permitting risks associated with water use
- ▶ Regulatory support, including strategic advice, permitting, and third-party reviews (e.g., *BC Water Sustainability Act*, *Fisheries Act*)
- ▶ Developing strategies to mitigate the effects of water use on the environment, e.g., water management plans
- ▶ Assessment of wetlands, streams, and groundwater-surface water interactions to support provincial and federal permitting requirements for water use and footprint activities
- ▶ Ecohydraulic modeling (e.g., PHABSIM, SEFA) to develop predictive relationships between streamflow and ecological indicators
- ▶ Guideline-compliant ecological assessments for water management activities, e.g., consumptive water use for process plants or dust management, flow diversion, dewatering activities, water treatment
- ▶ Assessment of change in water level and flow downstream of project activities for compliance with the *Fisheries Act*
- ▶ Assessment of predicted climate change impacts to environmental flows for regulatory requirements
- ▶ Engagement with First Nations and communities on water use plans and potential effects of project activities on the aquatic environment
- ▶ Long-term monitoring of the effects of water use on the environment through field studies and adaptive management

For more information about our Environmental Flows Services, contact us today!

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