



**Hatfield**  
CONSULTANTS

Environmental Specialist Since 1974

# FISHERIES AND AQUATIC ECOLOGY

*Hatfield helps you evaluate fisheries and aquatic ecosystems in temperate, tropical and Arctic environments*

**IN SUPPORT OF FISHERIES AND AQUATIC ECOLOGY, WE PROVIDE CONSULTING SERVICES THAT INCLUDE:**

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Fish habitat assessment and population studies

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Aquatic environmental impact assessment (EIA)

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Environmental effects monitoring (EEM)

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Fish contamination and tainting studies

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Fish habitat compensation planning

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Watershed restoration and enhancement

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Since our company's inception, fisheries and aquatic ecology have been at the core of our activities. We have carried out projects in this field for many public and private sector clients throughout North America and around the world. Hatfield manages monitoring programs that assess fish health, effects of development on fish populations, and the suitability of fish for consumption by humans or wildlife. Hatfield employs fish and fish habitat measurement and modeling techniques to select appropriate fish habitat compensation strategies, to offset losses resulting from specific development activities.

## FEATURED PROJECTS



### MONITORING SERVICES TO VALIDATE FISH HABITAT MODELS

Hatfield is implementing a multi-year fish movement study at Muskeg Creek as part of Shell Canada Energy's aquatic resource-monitoring initiative. The objective of the study is to validate, refine, and calibrate fish habitat suitability index models by comparing species biomass and abundance with physical environmental variables, such as the vegetation type, stream flow, and substrate composition found in representative study reaches.



### INTEGRATED COASTAL FISHERIES RESOURCE MANAGEMENT

Hatfield provided a Coastal Resource Management Specialist to an Integrated Coastal Fisheries Resource Management project in Indonesia. The project, proposed by the Asian Development Bank (ADB), was designed to rehabilitate coastal marine habitats as well as diversify and enhance the livelihoods of coastal communities within select pilot regions in Java, Sumatra, Lombok, and Kalimantan, Indonesia.



### AQUATIC RESOURCES BASELINE STUDY FOR METAL MINE EXPANSION

For a proposed metal-mine development project in a remote region of northern British Columbia, Hatfield designed and undertook a multi-year baseline study of aquatic resources, focusing on fish habitats, fish populations, and population genetics in streams and lakes in proximity to the proposed development site.

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## WHY HATFIELD CONSULTANTS?

Established in 1974 and based in Vancouver, Canada, Hatfield Consultants has built a worldwide reputation in environmental services with over 1,600 projects in Canada, Asia, Africa, South America and Europe. With company offices in Canada, Indonesia, Laos and Botswana, as well as business partners in Chile and Thailand, we are well positioned to respond to your individual project needs and requirements – wherever you are.

*We help you apply best environmental practices and contribute to a sustainable future.*