

## **SUPPLEMENTAL INFORMATION FOR IN STREAM USE**

Information requirements for the installation of an in-stream micro-turbine to generate electricity.

- Location, include photos of area.
- Design Drawing of the site
- Plan showing length, height and cross section of channel
- General Arrangement Longitudinal Section
- Information respecting the type and composition of the materials to be used in the construction (Note: water intake should be properly screened to prevent entrainment of fish. Guidelines available upon request)
- Baseline data on the water flow of the water course and historic water levels
  - Site Specific: what are the respective volumes of flow during average annual flow conditions for both channels: the channel in which turbine to be placed and the channel on the other side of island.
- Description of the existing bed channel material and cut bank stratigraphy of the water course
- Fluvial Classification study for stream stability analysis
- Description of operation and maintenance requirements
  - Site Specific: will the structure be removed (or partly removed) during the off-season?
- Impacts to existing habitat: use impacts on spawning, nursery, rearing, and food supply or migration route (i.e. will the structure prevent the movement of fish? If so, can a fish way be incorporated into the design to allow fish passage? What fish species use the river?)
- In water work timing restriction for cold and/or warm water fishery
- Construction sequencing (time restrictions taken into account)
- Estimated volume of any materials that will be removed and where they will be removed to
- Anticipated changes to the existing channel/shoreline morphology as a result of the proposed work
- The intended life of the undertaking
- Proposed start and completion date of in-water construction
- Monitoring, prior to, during and post construction. Please provide photos.
- Abandonment and restoration plan would be required with other regulatory instruments attached to the project.

*To be completed and filed with an application form. If information requirements are not applicable, please explain why.*