



**Project Title:** Proposed Fishway, Grand Falls, New Brunswick

**Client:** Department of Fisheries and Oceans (DFO)

## Project Description:

Department of Fisheries and Oceans (DFO) engaged GEMTEC Limited to design a fish passage facility to move salmon around the Grand Falls hydroelectric dam. This structure was built in the 1920's above the falls, which forms a natural obstacle to fish passage. The total drop is in the order of 30 metres. The design included an intake on the right abutment of the existing dam and a channel cut through the existing bedrock with gravity concrete weirs at intervals to form pools.

Consideration was given to minimization of blasting vibrations to prevent damage to the existing dam, penstock-tunnel and residences and businesses in the adjacent Town of Grand Falls. The design included extensive geological surveys to assess the maximum rock slopes required to ensure stability and minimize excavation. Extensive rock bolting and insitu drain holes were employed to stabilize the cuts.

