



Big Bar Landslide Site Recovery Options



Continue to monitor fish passage to gauge success.

- Use acoustic monitoring and radio tags to estimate the passage success rate for individual fish of selected species, size and sex.
- The First Nations Leadership Panel has supported monitoring and capture techniques via consensus among leaders.
- Understanding fish migration will help inform site recovery options moving forward.

Establish a natural fish passage.

I. Move rocks on the west bank to create a passable route for fish.

- This requires a step-wise approach to evaluate effectiveness.
- Rock manipulation may be insufficient to facilitate full fish passage.

II. Strategically add more rocks by placing concrete blocks or large boulders into the river at identified locations.

- Additional rock harvested from the slope above through drilling and breaking techniques with low velocity, non-toxic vibration charges could be aimed to create a fish passage.

Install a prefabricated temporary fishway, structure or a combination of the two.

- If rock work is not fully successful, prefabricated fishways and structures could be installed to improve passage through the worst sections of the obstruction.
- Additional innovative or combination options are under ongoing consideration.

Install a pneumatic fish transportation system.

- The Whooshh fish transportation system moves fish through two flexible pressurized tubes from below an obstruction to above it.
- Whooshh Innovations has surveyed the slide site and presented a plan.
- A third party ship classification review is underway to assess the feasibility and safety of the plan.

Physically move fish above the slide site.

Fish will be trapped using beach seining, fish wheels, dip netting, and other techniques and then transported via:

I. Truck.

- Limited roads and difficult terrain could result in fish mortality.

II. Helicopter.

- Air lift the fish from downstream the slide to a release site further upstream.
- The viability of transporting significant numbers is still being assessed and is dependent on fish trapping opportunities.

Each of these options come with potential benefits, risks and possible consequences and are being comprehensively assessed. Ongoing options continue to be jointly discussed between the First Nations Leadership Panel, the Unified Command Incident Management team and the Strategic Steering Committee. Action will not be taken until rock stability is confirmed and the river bank directly below where the slide occurred is deemed operable.