



## MEMORANDUM

**DATE:** January 20, 2025  
**TO:** Andrew Tucker, Resort Municipality of Whistler  
**FROM:** Vicki Legris, Cascade Environmental Resource Group Ltd.  
**RE:** Fitzsimmons Creek Compensation Channel - Riparian Restoration Plan  
**FILE #:** 013-09-30

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Cascade Environmental Resource Group Ltd. (Cascade) was retained by the Resort Municipality of Whistler (RMOW) to provide environmental services in support of the construction of a compensation channel at Green Lake in Whistler, British Columbia. It is estimated that approximately 72m<sup>2</sup> of riparian vegetation will be disturbed for the channel installation, and so 72 plants (1 per m<sup>2</sup>) should be planted in disturbed areas at Green Lake once channel works are complete.

Revegetation works should be conducted once channel excavation works and large woody debris and rock placement is complete. Native plant species should be selected from the below list:

### Trees:

- Western redcedar (*Thuja plicata*)
- Douglas-fir (*Pseudotsuga menziesii*)
- Western hemlock (*Tsuga heterophylla*)
- Paper (white) birch (*Betula papyrifera*)
- Saskatoon berry (*Amelanchier alnifolia*)
- Scouler's willow (*Salix scouleriana*)
- Sitka willow (*Salix sitchensis*)
- Hooker's willow (*Salix hookeriana*)
- Pacific willow (*Salix lasiandra* var. *lasiandra*)
- Vine maple (*Acer circinatum*)
- Douglas maple (*Acer glabrum*)

### Shrubs:

- Red alder (*Alnus rubra*)
- Red-osier dogwood (*Cornus sericea*)
- Nootka rose (*Rosa nutkana*)
- Baldhip rose (*Rosa gymocarpa*)
- Dull Oregon grape (*Mahonia nervosa*)
- Falsebox (*Paxistima myrsinites*)
- Kinnikinnick (*Arctostaphylos uva-ursi*)

### Forbs:

- Swordfern (*Polystichum munitum*)
- Bracken fern (*Pteridium aquilinum*)
- Bunch berry (*Cornus canadensis*)



The following recommendations from the BC Riparian Restoration Guidelines (BC MOE, 2008) should be implemented during revegetation works:

- All tree/shrub species should be of guaranteed nursery stock.
- The botanical name should be used when ordering stock to ensure that the desired native species is being purchased.
- Stock planted during the fall (Sept. - Oct.) and spring (March - April) has the greatest likelihood of surviving.

Plants ordered will depend on nursery stock available. It is recommended that at least one tree, shrub and forb species from the above list is included in the revegetation works. Woody debris should be added to the restoration area for habitat naturalisation and clustering of planted vegetation is encouraged.

Please contact Cascade should there be any queries or concerns regarding this Restoration Plan.

Sincerely,

Vicki Legris, B.Sc., E.P., R.P.Bio.  
Senior Biologist

## **References**

BC Ministry of Environment (MOE). 2008. Riparian Restoration Guidelines.