



**BCTS**  
BC Timber Sales  
Chinook

## **BCTS Chinook Business Area**

# **Forest Stewardship Plan #644 Replacement**

### **Sea to Sky Natural Resource District**



Prepared by: Stephan Bernhard, RPF Planning Forester

**BC Timber Sales, Chinook Business Area**

**Head Office:**

46360 Airport Road  
Chilliwack, BC  
V2P 1A5

**Field Office:**

101-42000 Loggers Lane  
Squamish, BC  
V8B 0H3

**Web:** <https://www2.gov.bc.ca/gov/content/industry/forestry/bc-timber-sales/fsp/sea-to-sky-fsp>

**Email:** [stephan.bernhard@gov.bc.ca](mailto:stephan.bernhard@gov.bc.ca)

**Phone:** 236-468-3924

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## Acknowledgments

Reconciliation with Indigenous peoples is integral to BCTS' mandate and its long-term success. We respectfully acknowledge the land we operate on is the traditional territory of the many Nations who have lived in this beautiful place since time immemorial. This Forest Stewardship Plan aims to support the government's commitment to true, lasting reconciliation with First Nations in British Columbia. BCTS recognizes both the historic and present-day relationship Indigenous peoples have with the forests, water, lands, and animals. We acknowledge that we must align our culture, policy, and business practices to support continued reconciliation with Indigenous peoples as this is integral to the long-term success of all people who reside on this land.

## British Columbia Timber Sales - Chinook Business Area

46360 Airport Road  
Chilliwack, BC  
V2P 1A5

**Phone:** 778-704-7097

**Fax:** 604-702-5711

**Name:** \_\_\_\_\_  
Stacey Gould, Timber Sales Manager

**Date:** \_\_\_\_\_

## Preparing Forester

46360 Airport Road  
Chilliwack, BC  
V2P 1A5

**Name:** \_\_\_\_\_ Seal  
Stephan Bernhard, RPF  
Planning Forester

**Date:** \_\_\_\_\_

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## INTRODUCTION

This Forest Stewardship Plan (FSP) has been prepared in accordance with the Forest and Range Practices Act (FRPA) as well as additional associated provincial and federal legislation for use by British Columbia Timber Sales (BCTS), Chinook Business Area, in the Sea to Sky Natural Resource District.

The purpose of the FSP is to outline objectives set forth by the Government of British Columbia related to forest management activities proposed on crown lands. The achievement of established objectives, within the FSP, is measured through results, strategies and/or measures. The objectives intend to identify the strategic issues by describing the desired future condition for a particular resource or resource use, while results, strategies and/or measures describe how the desired outcome will be achieved.

- A **result** is defined in the *Forest Planning and Practices Regulation* (FPPR) as a “description of measurable or verifiable outcomes in respect of a particular established objective, and the situations or circumstances that determine where in a Forest Development Unit (FDU) the outcomes will be applied.”
- A **strategy** is defined in the FPPR as a “description of measurable or verifiable steps or practices that will be carried out in respect of a particular established objective, and the situations or circumstances that determine where in a FDU the steps or practices will be applied.”

This FSP, where applicable, follows and outlines measurable and verifiable results, strategies and/or measures that are compatible with government-established forest management and resource objectives.

### Harvesting rights and apportionment at the time of this submission are:

| Plan Holder                                     | Management Unit | AAC in m3 |
|-------------------------------------------------|-----------------|-----------|
| BCTS                                            | Soo TSA         | 50,676    |
| Northwest Squamish Forestry Limited Partnership | TFL38           | 42,224    |
| Lil'wat Forestry Ventures Limited Partnership   | Soo TSA         | 20,000    |
| Tsetsqa 7 Limited Partnership                   | Soo TSA         | 34,521    |
|                                                 |                 |           |
|                                                 |                 |           |
|                                                 |                 |           |
|                                                 |                 |           |
|                                                 |                 |           |
|                                                 |                 |           |

## 1. Interpretation

### 1.1 Abbreviations and Definitions:

“Aboriginal people” as defined in section 35(2) of the Constitution Act.

“AIA” means Archaeological impact assessment

“BA” means the basal area (m2)

“BCMOF” means British Columbia Ministry of Forests

“CHS-200” means Chinook Squamish – Results/Strategy or Measure reference number

“CMT” means culturally modified tree

“CP” means Cutting Permit

“DDM” means delegated decision maker

“ECA” means Equivalent Clearcut Area, a measure of the relative loss and recovery of hydrologic function for a forest canopy;

“FDU” means Forest Development Unit under this FSP (note that BCTS has used FDU and LU, interchangeably);

“FPC” means Forest Practices Code of British Columbia Act RSBC 1996, c 159 (rescinded);

“FNWL” means First Nation Woodland Licence

“FPPR” means the Forest Planning and Practices Regulation BC Reg 14/2004;

“FRPA” means the Forest and Range Practices Act SBC 2002, c.69;

“FSP” means this forest stewardship plan;

“GAR” means the Government Actions Regulation;

“GWM” means general wildlife measures

“IAPP” means the provincial invasive alien plant program

“IWMP” means Integrated Watershed Management Plan;

“LU” means Landscape unit (note that BCTS has used FDU and LU, interchangeably);

“NAR” means net area to be reforested

“OSPR” means the Operational and Site Planning Regulation;

“PAS” means permanent access structure

“Primary Forest Activity” means one or more of the following:

- (a) Timber harvesting;
- (b) Silviculture treatments;
- (c) Road construction, maintenance and deactivation;

“RMA” means riparian management area

“RMZ” means riparian management zone

“RP” means Road Permit;

“RRZ” means riparian reserve zone

“RSTBC” means Recreation Sites and Trails BC

“Species at Risk Notice” means the notice under section 7 (2) of the FPPR

“THLB” means Timber Harvesting Land Base

“TFL 38” Tree Farm Licence 38 (Northwest Squamish Forestry Limited)

“TSL” means Timber Sale Licence;

“TSM” means the Timber Sales Manager for the BC Timber Sales’ Chinook Business Area;

“UWR” means Ungulate Winter Range

“VIA” means visual impact assessment

“VQO” means visual quality objectives

“WHA” means Wildlife Habitat Area;

“WTRA” means Wildlife Tree Retention Area.

“WTP” means Wildlife Tree Patch.

## 1.2 Term of the Stewardship Plan:

The term of the FSP is five (5) years commencing on the date of approval by the Delegated Decision Maker (DDM) of the Ministry of Forests.

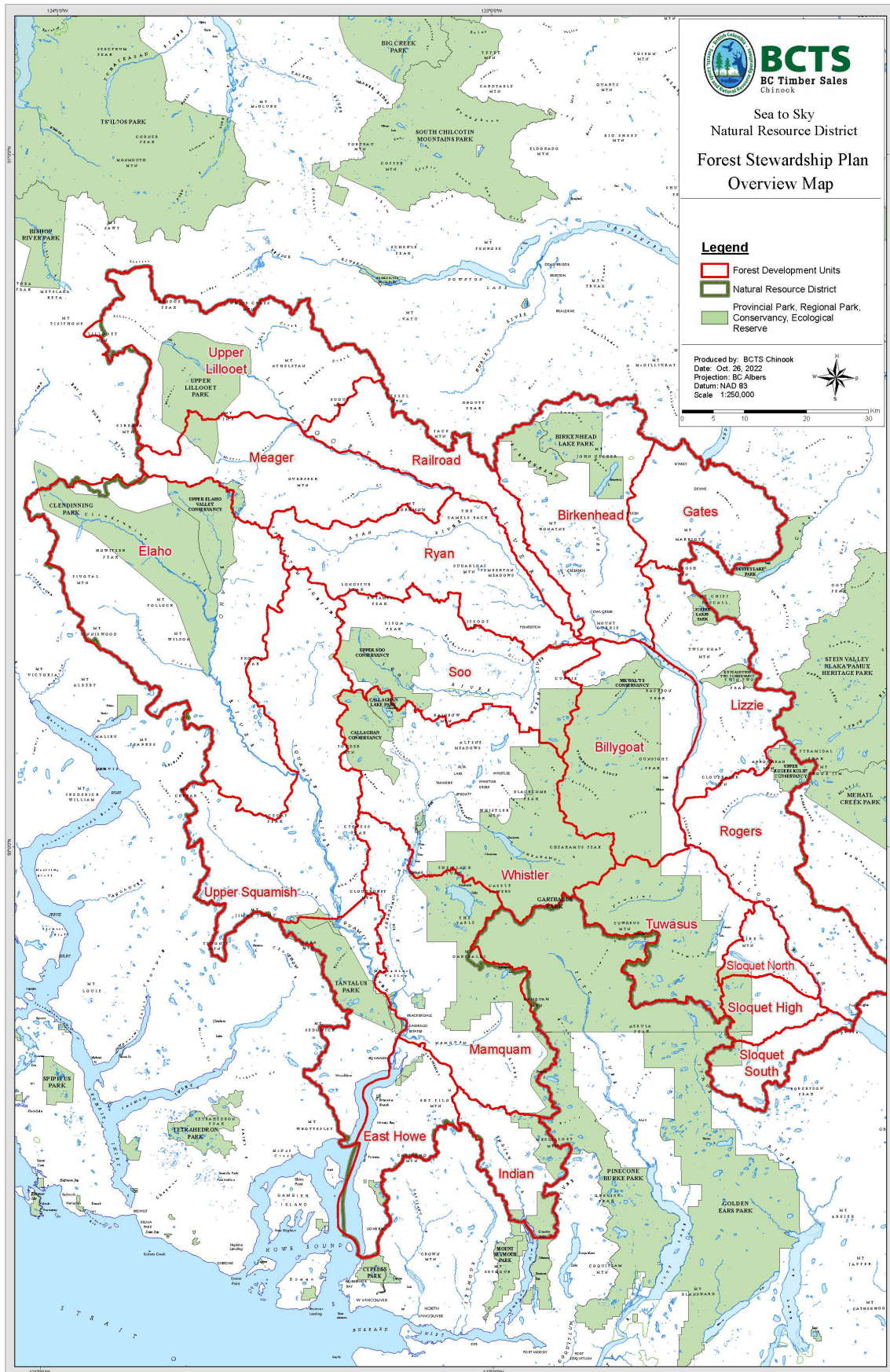
## 1.3 Forest Development Unit:

The attached FSP maps, at a 1:50,000 scale, show the FDUs, agreements under the *Forest Act* and other features located within those FDUs.

All FDUs were in effect at the time of submission of this FSP.

Figure 1 provides an overview map of the FSP area and the FDUs that are in effect at the time of submission of this FSP. Refer to the attached FSP maps for details.

**Figure 1.** Overview map of the FSP area and the FDUs (note BCTS uses the terms FDU and LU interchangeably).



## 1.4 Cumulative Effect of Multiple and Overlapping Forest Stewardship Plans

The Plan holder will endeavor to work cooperatively with other forest tenure holders operating with the Forest Development Units described within this document.

## 1.5 Areas excluded from this Forest Stewardship Plan

Areas excluded from the FDUs are areas such as First Nation reserves, woodlots, private land, provincial and federal parks as well as any other area where commercial harvesting is not permitted.

## 1.6 Road Permits and Timber Sale Licences

Road Permits in effect are listed in **Table A3**. Timber Sales Licences in effect are listed in **Table A4**.

## 1.7 Land Use Designations

### **Section 14 (3)**

*The things that under subsection (2) are to be identified in a forest stewardship plan referred to in that subsection are each*

- (a) ungulate winter range,*
- (b) wildlife habitat area,*
- (c) fisheries sensitive watershed,*
- (d) lakeshore management zone, including specifying the width of the zone, if the zone is identified on a map accompanying the establishment of the lakeshore management zone,*
- (e) scenic area,*
- (f) lake identified as an L1 lake under section 49 (1) (b) (ii) if the lake has been identified on a map accompanying the identification,*
- (g) community watershed,*
- (h) old growth management area,*
- (i) area in which commercial timber harvesting is prohibited by another enactment,*
- (j) cutting permit and road permit held by the agreement holder if that is the person required to prepare the plan, and*
- (k) road permit or timber sale license granted or entered into by the timber sales manager if he or she is the person required to prepare the plan.*

**Table 1.** Identification of land use orders & designations for the applicable FDUs as per Section 14 (3) of the FPPR.

| DESIGNATION                                                                                                                                                                            | FDU (LU)                                | DATE (Y/M/D)                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|
| <b>Section 14(3)(a) UWR</b>                                                                                                                                                            |                                         |                                |
| Ungulate Winter Range #U2-002 (Mountain Goat) Soo TSA                                                                                                                                  | Refer to the order for location details | October 6, 2003                |
| Ungulate Winter Range #U2-005 (Black-tailed deer and Moose Winter Range) Soo TSA                                                                                                       | Refer to the order for location details | November 17, 2014              |
| Ungulate Winter Range #U2-007 (Mountain Goat) TFL38                                                                                                                                    | Refer to the order for location details | July 5, 2007                   |
| Ungulate Winter Range #U-2-008 (Black-tailed deer and Mule deer)TFL38                                                                                                                  | Refer to the order for location details | July 5, 2007                   |
| Ungulate Winter Range #U2-010 (Moose Winter Range) TFL38                                                                                                                               | Refer to the order for location details | March 17, 2005                 |
| <b>Section 14(3)(b) WHA</b>                                                                                                                                                            |                                         |                                |
| Order- WILDLIFE HABITAT AREAS 2-517 TO 2-525 (Spotted Owl)                                                                                                                             | Refer to the order for location details | February 28, 2013              |
| Order-Wildlife Habitat Areas 2-272 to 2-297, 2-381 to 2-386, 2-388, 2-390 to 2-406, 2-436 to 2-443 Grizzly Bear – Squamish Forest District<br>This also applies to Coastal Tailed Frog | Refer to the order for location details | August 25, 2010                |
| Order – Wildlife Habitat Areas #2-322 to 2-343, 2-345 to 2-350, 2-355, 2-357 to 2-371 Grizzly Bear – Squamish Forest District                                                          | Refer to the order for location details | June 28, 2010                  |
| Order – Wildlife Habitat Areas # 2-172 to 2-175, 2-177 to 2-193, 2-204, 2-254 to 2-270 (Grizzly Bear)                                                                                  | Refer to the order for location details | May 23, 2006                   |
| ORDER – WILDLIFE HABITAT AREAS 2-303 TO 2-306, 2-308, 2-309 &2-316 and<br>Order –WILDLIFE HABITAT AREAS 2-310 to 2-313 & 2-315                                                         | Refer to the order for location details | April 1, 2014<br>June 28, 2007 |

| DESIGNATION                                                                                                                                                  | FDU (LU)                                                  | DATE (Y/M/D)      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------|
| (Marbled Murrelet)                                                                                                                                           |                                                           |                   |
| Order –WILDLIFE HABITAT AREAS 2-688 to 2-691 & 2-315<br>(Northern Goshawk)                                                                                   | Refer to the order for location details                   | October 4, 2022   |
|                                                                                                                                                              |                                                           |                   |
| <b>Section 14(3)(c)</b> Fisheries Sensitive Watersheds                                                                                                       | n/a                                                       | None in effect    |
|                                                                                                                                                              |                                                           |                   |
| <b>Section 14(3)(d)</b> Lakeshore management zone                                                                                                            | n/a                                                       | None in effect    |
|                                                                                                                                                              |                                                           |                   |
|                                                                                                                                                              |                                                           |                   |
| <b>Section 14(3)(e)</b>                                                                                                                                      |                                                           |                   |
| Sea to Sky Scenic Area and VQO for HWY 99 Corridor                                                                                                           | Refer to order for location details                       | 1995/12/18        |
| Ministerial Order ESTABLISHMENT OF SCENIC AREA AND VISUAL QUALITY OBJECTIVES FOR THE SHANNON CREEK WATERSHED WITHIN THE SEA TO SKY NATURAL RESOURCE DISTRICT | East Howe                                                 | October 25, 2016  |
|                                                                                                                                                              |                                                           |                   |
| <b>Section 14(3)(f)</b> Lake identified as an L1 Lake                                                                                                        | n/a                                                       | None in effect    |
|                                                                                                                                                              |                                                           |                   |
| <b>Section 14(3)(g) Community Watersheds</b>                                                                                                                 |                                                           |                   |
| - Agnew Community Watershed (Agnew Creek) Whistler June 15, 1995                                                                                             | Whistler                                                  | June 15, 1995     |
| - Alberta Community Watershed (Alberta Creek)                                                                                                                | East Howe                                                 | June 15, 1995     |
| - Alpha Community Watershed                                                                                                                                  | Whistler                                                  | June 15, 1995     |
| - Blackcomb Community Watershed                                                                                                                              | Whistler                                                  | June 15, 1995     |
| - Brew Community Watershed                                                                                                                                   | Whistler                                                  | June 15, 1995     |
| - Catiline Community Watershed                                                                                                                               | Lizzie                                                    | June 15, 1995     |
| - Charles Community Watershed (Charles Creek)                                                                                                                | East Howe                                                 | June 15, 1995     |
| - D'Arcy Community Watershed                                                                                                                                 | Gates                                                     | June 15, 1995     |
| - Harvey Community Watershed (Harvey Creek)                                                                                                                  | East Howe                                                 | June 15, 1995     |
| - Magnesia Community Watershed (Magnesia Creek)                                                                                                              | East Howe                                                 | June 15, 1995     |
| - Mashiter Community Watershed                                                                                                                               | Mamquam                                                   | June 15, 1995     |
| - McCulloch Community Watershed                                                                                                                              | Lizzie                                                    | June 15, 1995     |
| - Mineral Community Watershed                                                                                                                                | East Howe                                                 | June 15, 1995     |
| - Newman Community Watershed                                                                                                                                 | East Howe                                                 | June 15, 1995     |
| - Pemberton Community Watershed                                                                                                                              | Ryan                                                      | June 15, 1995     |
| - Peq Community Watershed                                                                                                                                    | Railroad                                                  | June 15, 1995     |
| - Rideau Community Watershed                                                                                                                                 | Whistler                                                  | June 15, 1995     |
| - Rogowski Community Watershed                                                                                                                               | Birkenhead                                                | June 15, 1995     |
| - Rundle Community Watershed (Rundle Creek)                                                                                                                  | East Howe                                                 | June 15, 1995     |
| - Spruce Community Watershed                                                                                                                                 | Gates                                                     | June 15, 1995     |
| - Stawamus Community Watershed                                                                                                                               | East Howe                                                 | June 15, 1995     |
| - Twenty-one Mile Community Watershed (Twenty-one mile Creek)                                                                                                | Whistler                                                  | June 15, 1995     |
| - Whistler Community Watershed                                                                                                                               | Whistler                                                  | June 15, 1995     |
|                                                                                                                                                              |                                                           |                   |
| <b>Section 14 (3)(h) Old Growth Management Areas</b>                                                                                                         |                                                           |                   |
| East Howe LUP, Indian LUP and Lower Squamish LUP                                                                                                             | East Howe, Indian, and Lower Squamish                     | August 20, 2003   |
| Rogers LUP                                                                                                                                                   | Rogers                                                    | March 10, 2004    |
| Ryan LUP, Billygoat LUP, Railroad LUP, Soo LUP, Meager LUP and Upper Lillooet LUP                                                                            | Ryan, Billygoat, Railroad, Soo, Meager and Upper Lillooet | 2004/09/06        |
| Soo LUP Appendix update                                                                                                                                      | Soo                                                       | December 16, 2010 |
| Gates LUP and Birkenhead LUP                                                                                                                                 | Gates and Birkenhead                                      | September 5, 2005 |
| Ministerial order, Land Use Objectives for the Whistler Landscape Unit                                                                                       | Whistler                                                  | August 20, 2015   |

| DESIGNATION                                                                                                                                                                | FDU (LU)                                                                                                                             | DATE (Y/M/D)      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Land use Objectives for the Lizzie, Mamquam, Tuwasus, Sloquet High, Sloquet North, and Sloquet South Landscape Units, located in the Sea to Sky District                   | Lizzie, Mamquam, Tuwasus, Sloquet High, Sloquet North, Sloquet South                                                                 | November 30, 2014 |
| Order Amending Objectives for Meager Landscape Unit, Railroad Landscape Unit and Upper Lillooet Landscape Unit.                                                            | Meager, Railroad, Upper Lillooet                                                                                                     | November 26, 2015 |
| <b>Section 14 (3)(i)</b>                                                                                                                                                   |                                                                                                                                      |                   |
| TFL38 Lava Creek Douglas Fir Grove (40ha)                                                                                                                                  | Elaho                                                                                                                                | November 7, 2000  |
| Trail between Fire and Glacier Lakes                                                                                                                                       | Tuwasus                                                                                                                              | October 14, 2009  |
| Sea to Sky Wildland Area Order                                                                                                                                             | All                                                                                                                                  | March 24, 2011    |
|                                                                                                                                                                            |                                                                                                                                      |                   |
| <b>Ministerial Orders</b>                                                                                                                                                  |                                                                                                                                      |                   |
| Land Use Objectives for the Sea-to-Sky Land and Resource Management Plan                                                                                                   | Refer to order for location details                                                                                                  | August 13, 2013   |
| Ministerial Order for the Recovery of Marbled Murrelet ( <i>Brachyramphus marmoratus</i> )                                                                                 | East Howe, Indian, Lower Squamish, Upper Squamish, Elaho, Meager, Ryan, Soo, Mamquam, Tuwasus, Sloquet High, Sloquet South, Whistler | May 31, 2022      |
| Notice for the Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Marbled Murrelet ( <i>Brachyramphus marmoratus</i> ) | East Howe, Indian, Lower Squamish, Upper Squamish, Elaho, Meager, Ryan, Soo, Mamquam, Tuwasus, Sloquet High, Sloquet South, Whistler | May 31, 2022      |
|                                                                                                                                                                            |                                                                                                                                      |                   |
|                                                                                                                                                                            |                                                                                                                                      |                   |

## 2. Results, Strategies and Measures

Section 149 (1) of the FRPA describes objectives set by the government with respect to forest management activities on crown lands. Specifically, this section states “The Lieutenant Governor in Council may make regulations prescribing objectives in relation to one or more of the following subjects: (a) soils; (b) visual quality; (c) timber; (d) forage and associated plant communities; (e) water; (f) fish; (g) wildlife; (h) biodiversity; (i) recreation resources; (j) resource features and (k) cultural heritage resources”.

The following sections of this FSP detail the objectives set by the government with specific reference to those described in the FPPR, as well as specify, where applicable, the associated results and/or strategies.

### 2.1 Soils

#### 2.1.1 Relevant established objectives: Sections 5, 12.2, 35 and 36 of the FPPR

**Section 5.** The objective set by government for soils is, without unduly reducing the supply of timber from British Columbia's forests, to conserve the productivity and the hydrologic function of soils

**Section 12 (2)** After December 31, 2004, for a forest stewardship plan or amendment to one, it is sufficient compliance with the objectives referred to in section 5 (1) (b) (ii) of the Act if the plan or amendment when submitted to the minister for approval conforms to those objectives as they were in effect 4 months before the date of the submission.

**Section 35 (1)** In this section:

"first agreement holder" means an agreement holder that is not a fiber recovery tenure holder;

"roadside work area" means the area adjacent to a road where one or both of the following are carried out:

(a) decking, processing or loading timber;

(b) piling or disposing of logging debris;

"sensitive soils" means soils that, because of their slope gradient, texture class, moisture regime, or organic matter content have the following risk of displacement, surface erosion or compaction:

(a) for the Interior, a very high hazard;

(b) for the Coast, a high or very high hazard.

(2) Repealed. [B.C. Reg. 580/2004, s. 30 (a).]

(3) An agreement holder other than a holder of a minor tenure or a fiber supply license to cut, which holder is carrying out timber harvesting, must not cause the amount of soil disturbance on the net area to be reforested to exceed the following limits:

(a) if the standards unit is predominantly comprised of sensitive soils, 5% of the area covered by the standards unit, excluding any area covered by a roadside work area;

(b) if the standards unit not is not predominantly comprised of sensitive soils, 10% of the area covered by the standards unit, excluding any area covered by a roadside work area;

(c) 25% of the area covered by a roadside work area.

(4) An agreement holder may cause soil disturbance that exceeds the limits specified in subsection (3) if the holder

(a) is removing infected stumps or salvaging windthrow and the additional disturbance is the minimum necessary, or

(b) is constructing a temporary access structure and both of the following apply:

(i) the limit set out in subsection (3) (a) or (b), as applicable, is not exceeded by more than 5% of the area covered by the standards unit, excluding the area covered by a roadside work area;

(ii) before the regeneration date, a sufficient amount of the area within the standards unit is rehabilitated such that the agreement holder is in compliance with the limits set out in subsection (3).

(4.1) Despite subsections (3) and (4), if a first agreement holder is authorized to carry out timber harvesting in an area and a fibre recovery tenure holder is authorized to carry out timber harvesting in an area that overlaps with the area of the first agreement holder, the agreement holders must not cause the cumulative amount of soil disturbance from all primary forest activities carried out on the area of overlap to exceed 25% of that area.

(4.2) Subsection (4.1) does not apply in respect of any area of overlap occupied by a permanent access structure.

(5) The minister may require an agreement holder to rehabilitate an area of compacted soil if all of the following apply:

(a) the area of compacted soil

(i) was created by activities of the holder,

(ii) is within the net area to be reforested, and

(iii) is a minimum of 1 ha in size;

(b) the holder has not exceeded the limits described in subsection (3) or the holders have not exceeded the limit described in subsection (4.1), as applicable;

(c) rehabilitation would, in the opinion of the minister,

(i) materially improve the productivity and the hydrologic function of the soil within the area, and

(ii) not create an unacceptable risk of further damage or harm to, or impairment of, forest resource values related to one or more of the subjects listed in section 149 (1) of the Act.

(6) An agreement holder who rehabilitates an area under subsection (4) or (5) must

- (a) remove or redistribute woody materials that are exposed on the surface of the area and are concentrating subsurface moisture, to the extent necessary to limit the concentration of subsurface moisture on the area,
- (b) de-compact compacted soils, and
- (c) return displaced surface soils, retrievable side-cast and berm materials.

(7) If an agreement holder rehabilitates an area under subsection (4) or (5) and erosion of exposed soil from the area would cause sediment to enter a stream, wetland or lake, or a material adverse effect in relation to one or more of the subjects listed in section 149 (1) of the Act, the agreement holder, unless placing debris or revegetation would not materially reduce the likelihood of erosion, must

- (a) place woody debris on the exposed soils, or
- (b) revegetate the exposed mineral soils. [am. B.C. Regs. 580/2004, s. 30; 157/2012, Sch. 4, s. 2.]

**Section 36 (1)** An agreement holder must ensure that the area in a cutblock that is occupied by permanent access structures built by the holder or used by the holder does not exceed 7% of the cutblock, unless

- (a) there is no other practicable option on that cutblock, having regard to
  - (i) the size, topography and engineering constraints of the cutblock,
  - (ii) in the case of a road, the safety of road users, or
  - (iii) the requirement in selection harvesting systems for excavated or bladed trails or other logging trails, or
- (b) additional permanent access structures are necessary to provide access beyond the cutblock.

(2) If an agreement holder exceeds the limit for permanent access structures described in subsection (1) for either of the reasons set out in that subsection, the holder must ensure that the limit is exceeded as little as practicable.

(3) An agreement holder may rehabilitate an area occupied by permanent access structures in accordance with the results or strategies specified in the forest stewardship plan or by

- (a) removing or redistributing woody materials that are exposed on the surface of the area and are concentrating subsurface moisture, as necessary to limit the concentration of subsurface moisture on the area,
- (b) de-compacting compacted soils, and
- (c) returning displaced surface soils, retrievable side-cast and berm materials.

(4) If an agreement holder rehabilitates an area under subsection (3) (a) and erosion of exposed soil from the area would cause sediment to enter a stream, wetland or lake, or a material adverse effect in relation to one or more of the subjects listed in section 149 (1) of the Act, the agreement holder, unless placing debris or revegetation would not materially reduce the likelihood of erosion, must

- (a) place woody debris on the exposed soils, or
- (b) revegetate the exposed mineral soils.

[en. B.C. Reg. 580/2004, s. 31.]

## 2.1.2 Results, Strategies and Measures

| Soils  |     |                                                                                                                                                                                                                           |
|--------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU    |     | Result, Strategy or Measure                                                                                                                                                                                               |
| CHS200 | All | The TSM will undertake to comply with Section 35 (soil disturbance limits) and Section 36 (permanent access structure limits) of the FPPR with regard to any primary forest activities the TSM carries out or authorizes. |

## 2.2 Timber

### 2.2.1 Relevant Established Objectives:

#### Section 6 of the FPPR

Objectives set by government for timber

**Section 6** The objectives set by government for timber are to

- (a) maintain or enhance an economically valuable supply of commercial timber from British Columbia's forests,
- (b) ensure that delivered wood costs, generally, after taking into account the effect on them of the relevant provisions of this regulation and of the Act, are competitive in relation to equivalent costs in relation to regulated primary forest activities in other jurisdictions, and
- (c) ensure that the provisions of this regulation and of the Act that pertain to primary forest activities do not unduly constrain the ability of a holder of an agreement under the Forest Act to exercise the holder's rights under the agreement.

[am. B.C. Reg. 580/2004, s. 6.]

### 2.2.2 No results or strategies required

Under section 12 (8) of the FPPR, the holder of the plan is exempt from the requirement to prepare results or strategies for an objective set by government for timber

## 2.3 Wildlife

### 2.3.1 Relevant Established Objectives:

Sections 7, 8, 9, 9.1 of the FPPR

#### **Section 7**

*(1) The objective set by government for wildlife is, without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for*

*(a) the survival of species at risk,*

*(b) the survival of regionally important wildlife, and*

*(c) the winter survival of specified ungulate species.*

#### **Section 8**

*The objective set by government for water, fish, wildlife and biodiversity within riparian areas is, without unduly reducing the supply of timber from British Columbia's forests, to conserve, at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas.*

#### **Section 9**

*The objective set by government for wildlife and biodiversity at the landscape level is, without unduly reducing the supply of timber from British Columbia's forests and to the extent practicable, to design areas on which timber harvesting is to be carried out that resemble, both spatially and temporally, the patterns of natural disturbance that occur within the landscape.*

#### **Section 9.1**

*The objective set by government for wildlife and biodiversity at the stand level is, without unduly reducing the supply of timber from British Columbia's forests, to retain wildlife trees.*

### 2.3.2 Results, Strategies and Measures:

| <b>Species at Risk</b> |                                                 |                                                                                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU                    |                                                 | Result, Strategy or Measure                                                                                                                                                                                                                                                       |
| CHS201                 | Lower Squamish, Indian, Mamquam, Upper Squamish | Marbled Murrelet ( <i>Brachyramphus marmoratus</i> )<br><b>RESULT:</b> The TSM will undertake to comply with the Order.<br>Wildlife Habitat Areas: 2-303 to 2-306, 2-308, 2-309 and 2-316, (April 15, 2014).<br>Wildlife Habitat Areas: 2-310 to 2-313 and 2-315 (June 28, 2007). |

|        |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHS202 | East Howe,<br>Indian, Lower<br>Squamish,<br>Upper<br>Squamish,<br>Elaho,<br>Meager, Ryan,<br>Soo,<br>Mamquam,<br>Tuwasus,<br>Sloquet High,<br>Sloquet South,<br>Whistler | <p>☐ Ministerial Order. Order for the Recovery of Marbled Murrelet (<i>Brachyramphus marmoratus</i>)—effective December 2nd, 2021 (the Order).</p> <p><b>RESULT:</b></p> <p>(1) For, each Landscape Unit Aggregate and Landscape Unit Portion, on the lands to which the Order applies, and for which the FSP Holder plans primary forest activities, the FSP Holder will:</p> <p>(a) Maintain within each landscape unit aggregate, all timber in an amount equal to or greater than the minimum habitat threshold listed in Column A (Minimum Habitat Threshold) in Table 1 in Schedule 7; and</p> <p>(b) Maintain within each landscape unit portion, all timber in an amount equal to or greater than the suitable habitat target listed in Column A (Suitable Habitat Target) in Table 2 in Schedule 7.</p> <p>(2) Despite subsection (1)(b), the FSP Holder may maintain an amount of timber less than the suitable habitat target listed in Column A in Table 2 in Schedule 7 provided that the amount retained is equal to or greater than the minimum habitat threshold listed in Column B (Minimum Habitat Threshold) in Table 2 in Schedule 7.</p> <p>(3) Strategy: The FSP Holder may request that a variance be allowed from the Objectives in Sections 3.(1) to 3.(3) for the suitable habitat polygons shown in Schedules 1 and 6 provided that:</p> <p>(a) A qualified professional:</p> <p>i. Completes a field assessment that identifies the characteristics of suitable habitat using established standards; and</p> <p>ii. Confirms the alteration will result in no net loss or functional loss of suitable habitat.</p> <p>(4) Strategy: For the purpose of (1) to (3) above, the FSP Holder will share planning information with other FSP holders in the applicable Landscape Unit, as a method to obtain results consistent with the Orders objectives.</p> <p>(a) If fair and effective agreement cannot be reached; the FSP Holder may request the Minister to act under FPPR s 19.</p> |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|        |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHS203 | East Howe,<br>Indian, Lower<br>Squamish,<br>Upper<br>Squamish,<br>Elaho,<br>Meager, Ryan,<br>Soo,<br>Mamquam,<br>Tuwasus,<br>Sloquet High,<br>Sloquet South,<br>Whistler | <p>Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Marbled Murrelet (<i>Brachyramphus marmoratus</i>) – December 2nd, 2021 (the Notice).</p> <p><b>RESULT:</b></p> <p>(1) For each Landscape Unit Aggregate and Landscape Unit Portion, on the lands to which the Notice applies, and for which the FSP Holder plans primary forest activities, the FSP Holder will undertake to meet the requirements specified in the Notice given authority of section 7(2) of the FPPR.</p> <p>a. Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Marbled Murrelet (<i>Brachyramphus marmoratus</i>).</p> <p>(2) The FSP Holder will undertake to maintain the minimum amount of marbled murrelet nesting habitat (Suitable Habitat) as listed in Table 1 of Schedule 1.</p> <p>(3) The FSP Holder will undertake to maintain the minimum amount of Suitable Habitat as listed in Table 2 of Schedule 1</p> <p>(4) The FSP Holder will undertake to maintain an amount that is equal to or greater than the minimum amount of Suitable Habitat listed in Table 3 in Schedule 1</p> <p>a. To the extent practicable, include the marbled murrelet species attributes listed in the Notice for size, suitable habitat, nesting habitat features, tree size and structural stage; and</p> <p>b. Engage with the applicable First Nation(s) using the sharing protocol as outlined in the consultation process</p> <p>c. Engage with the applicable stakeholders using the sharing protocol as outlined in the consultation process in the FSP n the FSP</p> <p>(5) For the purpose of (1) to (4) above, the FSP Holder will share planning information with other FSP holders in the applicable Landscape Unit, as a method to obtain results consistent with the Orders objectives.</p> <p>a. If fair and effective agreement cannot be reached; the FSP Holder may request the Minister to act under FPPR s 19.</p> |
| CHS204 | Railroad,<br>Birkenhead,<br>Gates, Ryan,<br>Soo, Lizzie,<br>Billygoat,<br>Rogers,<br>Whistler,<br>Upper<br>Squamish,<br>Lower<br>Squamish,<br>Tuwasus,<br>Sloquet North  | <p>Spotted Owl (<i>Strix occidentalis</i>)</p> <p><b>RESULT:</b> The TSM will undertake to comply with the Order.</p> <p>Wildlife Habitat Areas: 2-517 to 2-525, (February 28, 2013)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| CHS205 | Gates, Rogers,<br>Whistler, Soo,<br>Meager, Ryan,<br>Railroad,<br>Upper Lillooet,<br>Birkenhead,<br>Mamquam                                                              | <p>Coastal Tailed Frog (<i>Ascaphus truei</i>)</p> <p><b>RESULT:</b> The TSM will undertake to comply with the Order.</p> <p>Order – “Wildlife Habitat Areas: 2-272 to 297, 2-381 to 2-386, 2-388, 2-390 to 2-406, 2-436 to 2-443 Grizzly Bear – Squamish Forest District, (August 25, 2010)</p> <p>(*Note: the objective for Coastal Tailed Frog is entirely overlapped by the Grizzly Bear WHA and is included in the same order.)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|--------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHS206 | Upper Lillooet, Meager, Elaho, Upper Squamish, Railroad, Ryan, Soo, Whistler, Mamquam, Gates, Lizzie, Rogers, Birkenhead | <p>Grizzly Bear (<i>Ursus arctos</i>)</p> <p><b>RESULT:</b> The TSM will undertake to comply with the Orders.</p> <p>Order – Wildlife Habitat Areas # 2-172 to 2-175, 2-177 to 2-193, 2-204, 2-254 to 2-259, 2-261 to 2-270 (May 23, 2006)</p> <p>Order – Wildlife Habitat Areas #2-322 to 2-343, 2-345 to 2-350, 2-352 to 2-355, 2-357 to 2-371 Grizzly Bear – Squamish Forest District (June 28, 2007)</p> <p>Order – Wildlife Habitat Areas: 2-272 to 297, 2-381 to 2-386, 2-388, 2-390 to 2-406, 2-436 to 2-443 Grizzly Bear – Squamish Forest District, ( August 25, 2010 )</p> <p>Order – Wildlife Habitat Areas #2-260 Grizzly Bear – Squamish Forest District (August 25, 2010)</p>                                                                                                                                                                                                                                                                                      |
| CHS207 | Tuwasus, Rogers, Birkenhead, Sloquet North                                                                               | <p>Northern Goshawk (<i>Accipiter gentilis laingi</i>)</p> <p>There are two subspecies of Northern Goshawk in British Columbia: a coastal subspecies (<i>A. g. laingi</i>) (red listed species at risk) and an interior subspecies (<i>A. g. atricapillus</i>) (blue-listed species at risk).</p> <p><b>RESULT:</b> The TSM will undertake to comply with the Order.</p> <p>Order – “Wildlife Habitat Areas 2-688, 2-689, 2-690, 2-691 and 2-698 in the Squamish Forest District, (October 4, 2022</p> <p><b>STRATEGY (applies to all FDU):</b></p> <p>If Northern Goshawk and/or nesting site is identified during planning or primary forest activities, the TSM will:</p> <ol style="list-style-type: none"> <li>1) seek advice and recommendations from a qualified professional, as per the <i>Wildlife Act</i>, and</li> <li>2) ensure that those recommendations are incorporated in a plan, and that the primary forest activity is consistent with the plan.</li> </ol> |
| CHS208 | All                                                                                                                      | <p>Pacific Water Shrew (<i>Sorex bendirii</i>)</p> <p>There are no WHA objectives or FPPR Section 7 Notices currently in effect for Pacific Water Shrew in the Sea to Sky Natural Resource District.</p> <p><b>STRATEGY:</b></p> <p>If Pacific Water Shrew is identified during planning or primary forest activities, the TSM will:</p> <ol style="list-style-type: none"> <li>1) seek advice and recommendations from a qualified professional, as per the <i>Wildlife Act</i>, and</li> <li>2) ensure that those recommendations are incorporated into a plan, and that the primary forest activity is consistent with the plan.</li> </ol>                                                                                                                                                                                                                                                                                                                                   |

| Survival of Regionally Important Wildlife |     |                                                                                                                                             |
|-------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------|
| FDU                                       |     | Result, Strategy or Measure                                                                                                                 |
| CHS209                                    | All | The Ministry responsible for the <i>Wildlife Act</i> has not identified regionally important wildlife within the FDU's covered by this FSP. |

| Winter Survival of Specified Ungulate Species |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU                                           |     | Result, Strategy or Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| CHS210                                        | All | <p><b>RESULT:</b> The TSM will undertake to comply with the following Orders:</p> <p>#U2-002, Mountain goat (<i>Oreamnos americanus</i>) Soo TSA (October 6, 2003);</p> <p>#U-2-005, Amendment to Ungulate Winter Range U-2-005 Black tailed Deer and Moose- Sea to Sky Forest District, Soo TSA (November 17, 2014);</p> <p>#U-2-007, Ungulate Winter Range (mountain goat) (July 5, 2007);</p> <p>#U-2-008, Ungulate Winter Range (black-tailed deer &amp; mule deer) (July 5, 2007);</p> <p>#U2-010, Ungulate Winter Range (Moose (<i>Alces alces</i>), within TFL38) (March 17, 2005).</p> |

## 2.4. Water, Fish, Wildlife and Biodiversity in Riparian Areas

### 2.4.1 Relevant established objectives

Sections 8, 8.1, 8.2, 12(3), 12.3 and 57 of the FPPR

**Section 8** *The objective set by government for water, fish, wildlife and biodiversity within riparian areas is, without unduly reducing the supply of timber from British Columbia's forests, to conserve, at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas.*

*Objectives set by government for fish habitat in fisheries sensitive watersheds*

**Section 8.1** (1) *In this section, "fisheries sensitive watershed" means an area identified in Schedule 2 of this regulation*

*(a) with significant downstream fisheries values continued under section 180 (f) of the Act and significant watershed sensitivity continued under section 180 (g) of the Act, and*

*(b) for which there is no fisheries sensitive watershed objective.*

*(2) Until December 31, 2005 the objective set by government for fish habitat in fisheries sensitive watersheds is to prevent to the extent described in subsection (3) the cumulative hydrological effects of primary forest activities in the fisheries sensitive watershed from resulting in a material adverse impact on the habitat of the fish species for which the fisheries sensitive watershed was established.*

*(3) The objective set by government under subsection (2) applies only to the extent that it does not unduly reduce the supply of timber from British Columbia's forests.*

*(4) If satisfied that the objective set out in subsection (2) is not required to provide special management, the minister responsible for the Wildlife Act must exempt a person from the requirement to specify a result or strategy in relation to the objective.*

*(5) If satisfied that the objective set out in subsection (2) is addressed, in whole or in part, by an enactment, the minister responsible for the Wildlife Act must exempt a person from the requirement to specify a result or strategy in relation to the objective set out in subsection (2) to the extent that the objective is already addressed. [en. B.C. Reg. 62/2005, s. 2.]*

**Section 8.2** (1) *In this section, "community watershed" means a community watershed*

*(a) that is continued under section 180 (e) of the Act, and*

*(b) for which a water quality objective has not been*

*(i) continued under section 181 of the Act, or*

*(ii) established under the Government Actions Regulation.*

*(2) The objective set by government for water being diverted for human consumption through a licensed waterworks in a community watershed is to prevent to the extent described in subsection (3) the cumulative hydrological effects of primary forest activities within the community watershed from resulting in*

*(a) a material adverse impact on the quantity of water or the timing of the flow of the water to the waterworks, or*

*(b) the water from the waterworks having a material adverse impact on human health that cannot be addressed by water treatment required under*

*(i) an enactment, or*

*(ii) the licence pertaining to the waterworks.*

(3) The objective set by government under subsection (2) applies only to the extent that it does not unduly reduce the supply of timber from British Columbia's forests.

(4) If satisfied that the objective set out in subsection (2) is not required to provide special management the minister responsible for the Wildlife Act must exempt a person from the requirement to specify a result or strategy in relation to the objective.

(5) If satisfied that the objective set out in subsection (2) is addressed, in whole or in part, by an enactment, the minister responsible for the Wildlife Act must exempt a person from the requirement to specify a result or strategy in relation to the objective set out in subsection (2) to the extent that the objective is already addressed.

**Section 12 (3)** Despite section 12.1 (2) and (6), a person who prepares a forest stewardship plan must specify in it, for the objective set out in section 8, a result or strategy that addresses retention of trees in a riparian management zone.

**Section 12.3** Conditional exemption — from one or more of sections 47 to 53

**Section 57** An authorized person who carries out a primary forest activity must conduct the primary forest activity at a time and in a manner that is unlikely to harm fish or destroy, damage or harmfully alter fish habitat.

## 2.4.2 Objectives set by Government for Fish Habitat in Fisheries Sensitive Watersheds: Sections 47 to 51, 52(2), 53 and 57 of the FPPR

**Section 47** Stream Riparian Classes

**Section 48** Wetland riparian classes

**Section 49** Lake riparian classes

**Section 50** Restrictions in a riparian management area

**Section 51** Restrictions in a riparian reserve zone

**Section 52(2)** Restrictions in a riparian management zone

(2) An authorized person who cuts, modifies or removes trees in a riparian management zone for an S4, S5 or S6 stream that has trees that contribute significantly to the maintenance of stream bank or channel stability must retain enough trees adjacent to the stream to maintain the stream bank or channel stability, if the stream

(a) is a direct tributary to an S1, S2 or S3 stream,

(b) flows directly into the ocean, at a point near to or where one or more of the following is located:

(i) a herring spawning area;

(ii) a shellfish bed;

(iii) a saltwater marsh area;

(iv) an aquaculture site;

(v) a juvenile salmonid rearing area or an adult salmon holding area, or

(c) flows directly into the ocean at a point near to the location of an area referred to in paragraph (b) and failure to maintain stream bank or channel stability will have a material adverse impact on that area. [am. B.C. Reg. 580/2004, s. 39.]

**Section 53** Temperature sensitive streams

An authorized person who fells, modifies or removes trees in a riparian management area adjacent to a temperature sensitive stream, or a stream that is a direct tributary to a temperature sensitive stream, must retain either or both of the following in an amount sufficient to prevent the temperature of the temperature sensitive stream from increasing to an extent that would have a material adverse impact on fish:

(a) streamside trees whose crowns provide shade to the stream;

(b) understory vegetation that provides shade to the stream. [en. B.C. Reg. 580/2004, s. 40.]

**Section 57** An authorized person who carries out a primary forest activity must conduct the primary forest activity at a time and in a manner that is unlikely to harm fish or destroy, damage or harmfully alter fish habitat.

### 2.4.3 Results, Strategies and Measures:

| Water, Fish, Wildlife and Biodiversity in Riparian Areas |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU                                                      |     | Result, Strategy or Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CHS211                                                   | All | No fisheries sensitive watersheds have been identified within the area covered by this FSP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CHS212                                                   | All | <b>RESULT:</b> The TSM will undertake to comply with Sections 47 to 51, 52(2) 53 and 57 of the FPPR with respect to primary forest activities that are carried out or authorized by the TSM in relation to riparian classes or restrictions within them.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CHS213                                                   | All | <p><b>STRATEGY:</b> Prior to authorizing primary forest activities within a community watershed to which Section 8.2 of the FPPR applies, the TSM will be consistent with the legislation, and will :</p> <ul style="list-style-type: none"> <li>a) ensure a hydrologic review is carried out by a qualified professional within the 2-year period immediately before the primary forest activity occurs,</li> <li>b) as per the objectives in Section 8.2 of the FPPR, ensure the review evaluates Equivalent Clearcut Area (ECA) and other appropriate hydrologic measures as prescribed by the qualified professional, in order to assess hydrologic condition and assess risk to watershed values as a result of proposed primary forest activities,</li> <li>c) consider existing IWMPs,</li> <li>d) ensure that the recommendations from the review are specified in a plan, and</li> <li>e) that the primary forest activity is consistent with the recommendations of the hydrological review.</li> </ul> |
| CHS214                                                   | All | <p><b>STRATEGY:</b> Prior to authorizing primary forest activities, to address retention in riparian management zones(RMZ) with respect to Sections 8 and 12(3) of the FPPR, the TSM will be consistent with the objectives, and will:</p> <ul style="list-style-type: none"> <li>a) ensure that retention levels within RMZs are determined by a qualified professional through a riparian assessment that considers Schedule 1(2) of the FPPR,</li> <li>b) design cutblocks and roads in a manner that is consistent with the retention levels as determined by the qualified professional as described in (a) and,</li> <li>c) ensure those retention levels are specified in a plan and that the primary forest activities are consistent with the plan.</li> </ul>                                                                                                                                                                                                                                           |
| CHS215                                                   | All | <p><b>RESULT:</b> The TSM will undertake to comply with the order, with respect to primary forest activities, regarding the Objectives for Floodplain Management Areas and Riparian Areas as specified in the:</p> <p>Ministerial Order – Land Use Objectives of the Sea-to-Sky Land and Resource Management Plan, dated April 4, 2011, amendment (August 13, 2013)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## 2.5 Fish

### 2.5.1 Relevant Established Objectives: Section 8 and 57 of the FPPR

**Section 8** The objective set by government for water, fish, wildlife and biodiversity within riparian areas is, without unduly reducing the supply of timber from British Columbia's forests, to conserve, at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas.

**Section 57** An authorized person who carries out a primary forest activity must conduct the primary forest activity at a time and in a manner that is unlikely to harm fish or destroy, damage or harmfully alter fish habitat.

### 2.5.2 Results, Strategies and Measures:

| Fish   |     |                                                                                                                                                                                                                                                                      |
|--------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU    |     | Result, Strategy or Measure                                                                                                                                                                                                                                          |
| CHS216 | All | Consistency with the objectives for fish, as per Sections 8 and 57 of FPPR, is achieved through the results and strategies provided in Section 2.3 Water, Fish, Wildlife and Biodiversity in Riparian Areas (CHS209, CHS210, CHS211, CHS212 and CHS213) of this FSP. |

## 2.6 Biodiversity

### 2.6.1 Objectives that were established under Sections 8, 9, 9.1, 12.4, 12.5, 64, 65, 66, 67 and Schedule 1 of the FPPR

**Section 8** The objective set by government for water, fish, wildlife and biodiversity within riparian areas is, without unduly reducing the supply of timber from British Columbia's forests, to conserve, at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas.

**Section 9** The objective set by government for wildlife and biodiversity at the landscape level is, without unduly reducing the supply of timber from British Columbia's forests and to the extent practicable, to design areas on which timber harvesting is to be carried out that resemble, both spatially and temporally, the patterns of natural disturbance that occur within the landscape.  
Objectives set by government for wildlife and biodiversity — stand level

**Section 9.1** The objective set by government for wildlife and biodiversity at the stand level is, without unduly reducing the supply of timber from British Columbia's forests, to retain wildlife trees.

**Section 12 (4)** If a land use objective conflicts with an objective described in this Division, a person who prepares a forest stewardship plan is exempt from specifying a result or strategy in relation to the objective described in this Division, to the extent that doing so would conflict with the land use objective.

**Section 12 (5)** If 2 or more established objectives are applicable to  
(a) a common area, and  
(b) the same or a similar subject matter,

the minister may exempt a person who is required to prepare a forest stewardship plan from the requirement to specify a result or strategy for all but one of the established objectives.

Maximum cutblock size

**Section 64**

(1) If an agreement holder other than a holder of a minor tenure harvests timber in a cutblock, the holder must ensure that the size of the net area to be reforested for the cutblock does not exceed

(a) 40 hectares for areas located in the Kootenay Boundary Forest Region, South Coast Forest Region, Thompson Okanagan Forest Region or West Coast Forest Region, as established by the Administrative Boundaries Regulation, and

(b) 60 hectares for areas located in the Cariboo Forest Region, Northeast Forest Region, Omineca Forest Region or Skeena Forest Region, as established by the Administrative Boundaries Regulation.

(2) Subsection (1) does not apply to an agreement holder where

(a) timber harvesting

(i) is being carried out on the cutblock

(A) to recover timber damaged by fire, insect infestation, wind or other similar events, or

(B) for sanitation treatments, or

- (ii) is designed to be consistent with the structural characteristics and the temporal and spatial distribution of an opening that would result from a natural disturbance, and
  - (b) the holder ensures, to the extent practicable, that the structural characteristics of the cutblock after timber harvesting has been substantially completed resemble an opening that would result from a natural disturbance.
- (3) Subsection (1) does not apply if the timber harvesting that is being carried out on the cutblock retains 40% or more of basal area of the stand that was on the cutblock before timber harvesting.
- (4) Subsection (1) does not apply if no point within the net area to be reforested is
- (a) more than two tree lengths from either
    - (i) the cutblock boundary, or
    - (ii) a group of trees reserved from harvesting that is greater than or equal to 0.25 ha in size, or
  - (b) more than one tree length from a group of trees reserved from timber harvesting that is less than 0.25 ha in size.

[am. B.C. Regs. 580/2004, s. 42; 137/2014, Sch. 4, s. 2.]

#### **Harvesting adjacent to another cutblock**

##### **Section 65**

(1) In this section:

- "adjacent" means an area that is sufficiently close to a cutblock that, due to its location, could directly impact on, or be impacted by, a forest practice carried out within the cutblock;
- "existing cutblock" means a cutblock that was previously harvested under an agreement other than a minor tenure;
- "new cutblock" means a cutblock on which harvesting has not yet started and that is adjacent to an existing cutblock;
- "non-conforming portion" means an area within an existing cutblock on which the stocking and height requirements of subsection (3) have not been met.

- (2) An agreement holder other than a holder of a minor tenure must not harvest timber on a new cutblock, unless
- (a) all existing cutblocks that are adjacent to the new cutblock meet the requirements set out in subsection (3), or
  - (b) the combined area of the new cutblock and any non-conforming portions that are immediately adjacent to the new cutblock does not exceed the requirements relating to cutblock size set out in section 64 (1) [maximum cutblock size].
- (3) For the purpose of subsection (2) (a), an existing cutblock must meet the criteria set out in one of the following paragraphs:
- (a) at least 75% of the net area to be reforested of the existing cutblock is stocked such that the average height of the tallest 10% of the trees on the area is a minimum of 3 m and
    - (i) is stocked in accordance with the applicable stocking standards, as described under section 16 [stocking standards],
    - (ii) if the area is on the Coast, other than the Nass timber supply area, is stocked with at least 500 trees/ha of a commercially valuable species that are at least 1.3 m in height, or
    - (iii) if the area is in the Interior or in the Nass timber supply area, is stocked with at least 700 trees/ha of a commercially valuable species that are at least 1.3 m in height;
  - (b) the part of the net area to be reforested of the existing cutblock that is closest to the new cutblock
    - (i) must be at least half of the net area to be reforested,
    - (ii) is stocked such that the average height of the tallest 10% of the trees on the area is a minimum of 3 m, and
    - (iii) is stocked
      - (A) in accordance with the applicable stocking standards for that cutblock, as described under section 16,
      - (B) if the area is on the Coast, other than the Nass timber supply area, with at least 500 trees/ha of a commercially valuable species that are at least 1.3 m in height, or
      - (C) if the area is in the Interior or in the Nass timber supply area, with at least 700 trees/ha of a commercially valuable species that are at least 1.3 m in height.
- (4) Subsection (2) does not apply if section 64 (2), (3) or (4) apply to the new cutblock.
- [am. B.C. Reg. 580/2004, s. 43.]

#### **Wildlife tree retention**

**Section 66** (1) If an agreement holder completes harvesting in one or more cutblocks during any 12 month period beginning on April 1 of any calendar year, the holder must ensure that, at the end of that 12 month period, the total area covered by wildlife tree retention areas that relate to the cutblocks is a minimum of 7% of the total area of the cutblocks.

(2) An agreement holder who harvests timber in a cutblock must ensure that, at the completion of harvesting, the total amount of wildlife tree retention areas that relates to the cutblock is a minimum of 3.5% of the cutblock.

(3) For the purposes of subsection (1) and (2), a wildlife tree retention area may relate to more than one cutblock if all of the cutblocks that relate to the wildlife tree retention area collectively meet the applicable requirements of this section.

(4) A fibre recovery tenure holder is exempt from this section.

#### **Restriction on harvesting**

**Section 67** An agreement holder must not harvest timber from a wildlife tree retention area unless the trees on the net area to be reforested of the cutblock to which the wildlife tree retention area relates have developed attributes that are consistent with a mature seral condition.

## 2.6.2 Results, Strategies and Measures:

| Biodiversity |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU          |                                                                                                                                                                    | Result, Strategy or Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CHS217       | All                                                                                                                                                                | <b>RESULT:</b> The TSM will undertake to comply with Sections 64 and 65 of the FPPR with regard to any primary forest activities the TSM carries out or authorizes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CHS218       | Birkenhead, East Howe, Gates, Indian, Lower Squamish, Rogers, Billygoat, Meager, Railroad, Ryan, Soo, Upper Lillooet, Mamquam, Lizzie, Tuwasus, Sloquets, Whistler | <p><b>RESULT:</b> Regarding the “<i>Order to Establish a Landscape Unit and Objectives</i>” the TSM will manage <b>landscape level</b> biological diversity by planning and implementing cut blocks and roads in a manner that is consistent with the Orders:</p> <ul style="list-style-type: none"> <li>• Birkenhead LU – Legal Order and Objectives (April 13, 2005)</li> <li>• East Howe LU: Legal Order and Objectives (Aug. 1, 2003)</li> <li>• Gates LU – Legal Order and Objectives (April 13, 2015)</li> <li>• Indian LU: Legal Order and Objectives (Aug. 1, 2013)</li> <li>• Lower Squamish LU: Legal Order and Objectives (Aug. 1, 2003)</li> <li>• Rogers LU: Legal Order and Objectives (March 1, 2014)</li> <li>• Billygoat Legal Orders and Objectives (Aug.1, 2004)</li> <li>• Meager LU: Legal Orders and Objectives (Aug. 1, 2004)</li> <li>• Order Amendment Objectives for Meager LU (November 26, 2018)</li> <li>• Railroad LU: Legal Orders and Objectives (Aug. 1, 2004)</li> <li>• Order Amendment Objectives for Railroad LU (November 26, 2018)</li> <li>• Ryan LU: Legal Orders and Objectives (Aug. 1, 2004)</li> <li>• Soo LU: Legal Orders and Objectives (Aug. 1, 2004)</li> <li>• Amendment: Soo LU (Dec. 16, 2010)</li> <li>• Upper Lillooet LU: Legal Orders and Objectives (Aug. 1, 2004)</li> <li>• Order Amendment Objectives for Upper Lillooet LU (November 26, 2018)</li> <li>• Mamquam Lizzie Tuwasus Sloquets LUs: OGMA Order Revised (October 30, 2014)</li> <li>• Whistler LU: OGMA Order (Sept 10, 2015)</li> </ul> <p>Refer to Appendix B for Objectives by LU/ FDU</p> |

|        |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHS219 | Birkenhead, East Howe, Gates, Indian, Lower Squamish, Rogers, Billygoat, Meager, Railroad, Ryan, Soo, Upper Lillooet | <p><b>RESULT:</b> Regarding the “Order to Establish a Landscape Unit and Objectives” the TSM will manage <b>stand level</b> biological diversity by planning and implementing primary forest activities in a manner that is consistent with the Orders:</p> <ul style="list-style-type: none"> <li>• Birkenhead LU – Legal Order and Objectives (April 13, 2005)</li> <li>• East Howe LU: Legal Order and Objectives (Aug. 1, 2003)</li> <li>• Gates LU – Legal Order and Objectives (April 13, 2015)</li> <li>• Indian LU: Legal Order and Objectives (Aug. 1, 2013)</li> <li>• Lower Squamish LU: Legal Order and Objectives (Aug. 1, 2003)</li> <li>• Rogers LU: Legal Order and Objectives (March 1, 2014)</li> <li>• Billygoat Legal Orders and Objectives (Aug.1, 2004)</li> <li>• Meager LU: Legal Orders and Objectives (Aug. 1, 2004)</li> <li>• Order Amendment Objectives for Meager LU (November 26, 2018)</li> <li>• Railroad LU: Legal Orders and Objectives (Aug. 1, 2004)</li> <li>• Order Amendment Objectives for Railroad LU (November 26, 2018)</li> <li>• Ryan LU: Legal Orders and Objectives (Aug. 1, 2004)</li> <li>• Soo LU: Legal Orders and Objectives (Aug. 1, 2004)</li> <li>• Amendment: Soo LU (Dec. 16, 2010)</li> <li>• Upper Lillooet LU: Legal Orders and Objectives (Aug. 1, 2004)</li> <li>• Order Amendment Objectives for Upper Lillooet LU (November 26, 2018)</li> </ul> <p>Refer to Appendix B for Objectives by LU/ FDU</p> <p><b>STRATEGY</b></p> <p>With regard to Objective 2 of the LU/FDU orders, a WTRA may be amended or replaced provided that an equal or greater area of replacement forest is identified. Amendments to existing WTRA will be detailed in a professional report, indicating that any required replacement forest is of equivalent or greater area and attributes. The professional report and replacement areas will be submitted to the Delegated Decision Maker.</p> |
| CHS220 | Lizzie, Mamquam, Sloquet High, Sloquet North, Sloquet South, Tuwasus, Whistler, Elaho, Upper Squamish                | <p><b>RESULT:</b> The TSM will manage <b>stand level</b> biological diversity by undertaking to comply with Sections 66 and 67 of the FPPR with respect to primary forest activities that are carried out or authorized by the TSM.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| CHS221 | Elaho, Upper Squamish                                                                                                | <p><b>RESULT:</b> The TSM will manage <b>landscape level</b> biological diversity within the Elaho and Upper Squamish FDUs by undertaking to comply with the order. The TSM will plan and implement primary forest activities in a manner that is consistent with the order, and work with affected holders of major licences to ensure the objectives specified in the order are met.</p> <p>Order Establishing Provincial Non-Spatial Old Growth Objectives (June 30, 2004)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## 2.7 Cultural Heritage Resources

### 2.7.1 Relevant Established Objectives Section 10 of the FPPR

#### Section 10

*The objective set by government for cultural heritage resources is to conserve, or, if necessary, protect cultural heritage resources that are*

(a) the focus of a traditional use by an aboriginal people that is of continuing importance to that people, and  
(b) not regulated under the Heritage Conservation Act

## 2.7.2 Results, Strategies and Measures:

| Cultural Heritage Resources |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU                         |     | Result, Strategy or Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CHS222                      | All | <p><b>STRATEGY:</b> Regarding the objective for cultural heritage resources, set out in Section 10 of the FPPR, the strategies that apply to all FDU are:</p> <ol style="list-style-type: none"> <li>1) on an annual basis, at a minimum, the TSM will refer to applicable First Nations a map of sufficient scale (e.g. 1:20,000) and referral package detailing the areas proposed for primary forest activities, request cultural heritage resource information within the proposed areas, and provide a timeframe for First Nations to respond, that is consistent with First Nation's Forest Consultation and Revenue Sharing Agreements and/or higher level agreements (i.e. Strategic Engagement Agreements),</li> <li>2) when designing primary forest activities, the TSM will identify (and provide as part of strategy 1): <ol style="list-style-type: none"> <li>a) the portion of the area occupied by known cultural heritage resource,</li> <li>b) the nature of known cultural heritage resource,</li> <li>c) how the known cultural heritage resource is to be protected and/or conserved, and</li> <li>d) what specific actions, if any, are to apply to the primary forest practices carried out on the area, in order to protect and/or conserve the cultural heritage resource.</li> </ol> </li> <li>3) where responses are received or a cultural heritage resource is identified, the TSM will: <ol style="list-style-type: none"> <li>a) review the comments provided and work with First Nations to determine, options to minimize or mitigate the impact of primary forest activities on the cultural heritage resource, if required.</li> </ol> </li> <li>4) the TSM will send written documentation to applicable First Nations detailing referral discussions, which will include specific actions to be taken, if any, to conserve or protect the identified cultural heritage resource,</li> <li>5) the TSM will carry out or authorize primary forest activities only to the extent that those activities do not damage or render ineffective the cultural heritage resource that has been identified for protection,</li> <li>6) the TSM will carry out or authorize primary forest activities only to the extent that those activities are consistent with the constraints, if any, specified in the design of the primary forest activity for the cultural heritage resource that has been identified for conservation,</li> </ol> |

|             |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHS222 cont | ALL | <p>7) if the TSM is carrying out or has authorized primary forest activities, and a previously unidentified relevant cultural heritage resource is encountered, the TSM will:</p> <ul style="list-style-type: none"> <li>a) require operations within the cutblock or road to cease,</li> <li>b) consult with the applicable First Nation,</li> <li>c) determine: <ul style="list-style-type: none"> <li>i. the nature of the cultural heritage resource,</li> <li>ii. how the cultural heritage resource is to be protected or conserved, and</li> <li>iii. what specific actions, if any, are to apply to the primary forest practices carried out on the area, in order to protect and/or conserve the cultural heritage resource,</li> </ul> </li> <li>d) modify the design of the cutblock or road to protect or conserve the cultural heritage resource, if required, and</li> <li>e) authorize operations to resume within the cutblock or road to the extent that the operations are consistent with the modified design, if required, and</li> </ul> <p>8) ensure all recommendations and commitments are specified in a plan and that primary forest activities are consistent with the plan.</p> |
|-------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Cultural Places |     |                                                                                                                                                                                                                                                                       |
|-----------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU             |     | Result, Strategy or Measure                                                                                                                                                                                                                                           |
| CHS223          | All | <b>RESULT:</b> The TSM will undertake to comply with the order regarding the Objectives for First Nations Cultural Places as specified in the Ministerial Order <i>"Land Use Objectives for the Sea-to-Sky Land and Resource Management Plan"</i> , (August 13, 2013) |

| Cultural Management Areas |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU                       |                                                                                                                                  | Result, Strategy or Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CHS224                    | Birkenhead, Billygoat, Elaho, Lizzie, Rogers, Sloquet-South, Sloquet-High, Sloquet-North, Soo, Upper Squamish, Whistler, Tuwasus | <p><b>RESULT:</b> The TSM will undertake to comply with the order regarding the Objectives for First Nations Cultural Management Areas. As specified in the Ministerial Order <i>"Land Use Objectives for the Sea-to-Sky Land and Resource Management Plan"</i>, (August 13, 2013)</p> <p>For cultural management areas defined under this Order, where commercial timber harvesting is allowed, the TSM will refer to applicable First Nations regarding proposed primary forest activities and will apply the process detailed in CHS220.</p> |

## 2.8 Recreation Resources

### 2.8.1 Relevant Established Objectives: Sections 56, 57 and 180 of FRPA

#### **Section 56 (1)** *The minister may order*

- (a) the establishment of Crown land as an interpretive forest site, a recreation site or a recreation trail, except Crown land that is subject to another enactment and is being administered by another minister, branch or agency of government,*
  - (b) the variance of the boundaries of an interpretive forest site, a recreation site or a recreation trail, and*
  - (c) the disestablishment of an interpretive forest site, a recreation site or a recreation trail.*
- (2) [Repealed 2003-55-31.]*
- (3) The minister may establish an objective for an interpretive forest site, recreation site or recreation trail established under subsection (1).*
- (4) An objective established under subsection (1) must be consistent with objectives set by government that pertain to the area.*

#### **Section 57 (1)** *Unless authorized in writing by the minister or under another enactment, a person must not*

- (a) construct,*
  - (b) rehabilitate, or*
  - (c) maintain*
- a trail or other recreation facility on Crown land.*
- (2) The minister may impose pre-conditions or conditions of an authorization that the minister considers necessary or desirable, to be met by the person, including, but not limited to, requiring that the person provide security.*
- (2.1) If the minister requires security under subsection (2), the minister may specify*
- (a) when the security must be paid,*
  - (b) the amount of security that is required,*
  - (c) the form of the security, and*
  - (d) the circumstances under which the security may be realized.*
- (3) A person who obtains an authorization under subsection (1) must comply with any conditions of the authorization.*
- (4) If the minister determines under section 71 that a person has contravened subsection (1), the minister may order the person to*
- (a) remove or destroy or remove and destroy the trail or facility, and*
  - (b) restore the land underlying the trail or facility.*
- (5) The minister may revoke or vary an authorization granted under this section.*

#### **Section 180**

*Every area established or continued under the Code as*

- (a) an ungulate winter range,*
  - (b) a wildlife habitat area,*
  - (c) a scenic area,*
  - (d) an emergency bark beetle management area,*
  - (e) a community watershed,*
  - (f) an area with significant downstream fisheries values,*
  - (g) an area with significant watershed sensitivity,*
  - (h) a lakeshore management zone,*
  - (i) an interpretive forest site,*
  - (j) a recreation site,*
  - (k) a recreation trail, or*
  - (l) a forest ecosystem network*
- that was in effect immediately before the effective date is continued under this Act.*

## 2.8.2 Results, Strategies and Measures

| Recreation Resources |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU                  |     | Result, Strategy or Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CHS225               | All | <p><b>STRATEGY:</b><br/>Regarding each established and/or authorized (under Section 56, Section 57 or GAR) recreation site, recreation trail or interpretive forest, the TSM will:</p> <ul style="list-style-type: none"> <li>a) share information regarding the proposed primary forest activities with RSTBC and other stakeholders,</li> <li>b) provide a map of sufficient scale (e.g. 1:20,000) that identifies proposed primary forest activities, with a request for input as part of information sharing,</li> <li>c) design and implement primary forest activities in a manner that is consistent with any applicable established objectives,</li> <li>d) review input/comments received from stakeholders, and work with stakeholders to determine, options to minimize or mitigate the impact of primary forest activities on the site/trail/feature, if required, and</li> <li>e) ensure all primary forest activity design recommendations and commitments made to stakeholders are specified in a plan, and that primary forest activities are consistent with the plan.</li> </ul> |

Table 3 lists the established recreation sites, trails, and interpretive forest(s), for which there is an established objective applicable to the FSP, at the time of this submission of this FSP. It is provided for reference only and is subject to change.

**Table 3.** Established Recreation Sites and Trails and Interpretive Forests

| <b>Recreation Trails /Sites/Interpretive Forests<br/>(Designated)</b> | <b>Project #</b> | <b>Date of Establishment</b> |
|-----------------------------------------------------------------------|------------------|------------------------------|
| Alexander Falls Site                                                  | REC0108          | 2000/02/29                   |
| Anderson Beach Site                                                   | REC6276          | 2009/01/21                   |
| RSTBC Bain Creek (MARINE)                                             | REC169900        | 2014/11/07                   |
| Barkley Valley/Cr Trail                                               | REC6047          | 2000/02/29                   |
| Blackwater Lake                                                       | REC0227          | 1991/08/01                   |
| Bob McIntosh Recreation Trail                                         | REC33008         | 2010/01/04                   |
| Brandywine Meadows Trail                                              | REC3215          | 2001/01/28                   |
| Brandywine Parking Lots (was REC16019)                                | REC33093         | 2013/03/28                   |
| Brandywine Snowmobile Trail                                           | REC6902          | 2003/05/15                   |
| Brohm Lake Site                                                       | REC0106          | 2001/03/28                   |
| Brohm Lake IFS                                                        | REC6266          | 2000/02/29                   |
| Bungee                                                                | REC6891          | 2002/08/09                   |
| Cal Cheak/Brandywine Trail                                            | REC3218          | 2001/01/28                   |
| Cal Cheak Confluence                                                  | REC0127          | 1991/08/01                   |
| Callaghan Valley Ski Trails                                           | REC32329         | 2009/01/29                   |
| Cat Lake                                                              | REC0105          | 1991/08/01                   |
| Chain Lakes Trail                                                     | REC166985        | 2001/08/01                   |
| Chek canyon [Conroy] Site                                             | REC32295         | 2010/01/04                   |
| Dead End Loop Recreation Trail                                        | REC33036         | 2010/01/04                   |
| Deeks Cr. Trail                                                       | REC6121          | 2001/03/28                   |
| Deminger Interpretive                                                 | REC6326          | 2001/03/28                   |
| Driftwood Bay                                                         | REC0289          | 1991/08/01                   |
| Echo Lake Site                                                        | REC6243          | 2000/02/29                   |
| Elaho Giants                                                          | REC6358          | 2001/03/28                   |
| Elaho Site (E-100)                                                    | REC154996        | 2013/03/28                   |
| Flat Alley Recreation Trail                                           | REC32397         | 2010/01/04                   |
| Half Nelson Recreation Trail                                          | REC32953         | 2010/01/04                   |
| Harrison Lillooet (Heritage Trail)                                    | REC5636          | 2001/08/01                   |
| Hideaway                                                              | REC0266          | 1980/07/24                   |
| High Falls Site (5.5 km)                                              | REC154994        | 2013/03/28                   |
| Islet View (MARINE)                                                   | REC169896        | 2014/11/07                   |
| Jane Lakes Trail                                                      | REC6122          | 2013/03/28                   |
| Kayak                                                                 | REC6600          | 2001/03/28                   |
| Keyhole Falls Hot Springs                                             | REC202717        | 2016/06/22                   |
| Levette Lake Site                                                     | REC6279          | 2009/01/29                   |
| Lions/Magnesia/Harvey Creeks Trail                                    | REC3182          | 2000/12/14                   |
| Lizzie Bay                                                            | REC0225          | 1991/08/09                   |
| Lizzie Lake SITE                                                      | REC0233          | 1983/02/23                   |
| Lizzie Lake TRAIL                                                     | REC6124          | 1983/02/10                   |
| Made in the Shade Recreation Trail                                    | REC33040         | 2010/01/04                   |
| Madely-Rainbow trail                                                  | REC6125          | 2002/01/04                   |
| Mashiter Recreation Trail                                             | REC32491         | 2010/01/04                   |
| McGillivray Pass (Anderson Lake to GB)                                | REC4558          | 1992/06/11                   |
| Meager Cr. Hot-springs Site/Trail                                     | REC0236          | 2000/06/25                   |
| Meager/Fish Lake R.Reserve                                            | REC0235          | 2002/01/04                   |
| Mid-Altitude/Rainbow-Sproatt Flank Trail                              | REC6408          | 2001/01/28                   |
| Molson Memorial Picnic Site                                           | REC6422          | 2005/07/04                   |

| <b>Recreation Trails /Sites/Interpretive Forests<br/>(Designated)</b> | <b>Project #</b> | <b>Date of Establishment</b> |
|-----------------------------------------------------------------------|------------------|------------------------------|
| Mosquito Lake                                                         | REC0240          | 1991/08/01                   |
| Mount Sproatt Snowmobile Trail                                        | REC190994        | 2013/06/13                   |
| Murrin Park Loop Trail                                                | REC169751        | 2013/06/20                   |
| Norton Lake Site                                                      | REC6311          | 2003/05/15                   |
| Owl Creek Site                                                        | REC0219          | 1992/06/11                   |
| Owl Lake Trail                                                        | REC166988        | 2001/08/01                   |
| Owl Lakes Chain                                                       | REC3232          | 1980/07/07                   |
| Peanuts                                                               | REC6599          | 2001/03/28                   |
| Petgill Lake Trail                                                    | REC6130          | 2005/07/04                   |
| Powerhouse Plunge Recreation Trail                                    | REC16116         | 2010/01/04                   |
| Powersmart (Upper)                                                    | REC32399         | 2010/01/04                   |
| Ramillies Channel (MARINE)                                            | REC169906        | 2014/11/07                   |
| Ray Peters Recreation Trail                                           | REC33012         | 2010/01/04                   |
| Ring Creek Rip Recreation Trail                                       | REC16117         | 2010/01/04                   |
| Riverside                                                             | REC0265          | 1983/02/10                   |
| Roe Creek Snowmobile Trail                                            | REC169687        | 2013/06/20                   |
| Rutherford Snowmobile Trail                                           | REC6048          | 2000/12/14                   |
| Rutherford Winter Cabin                                               | REC136012        | 2013/03/28                   |
| Sea to Sky (new, current)                                             | REC33049         | 2013/03/28                   |
| Shadow Lake IFS                                                       | REC6265          | 2000/02/29                   |
| Showh Lake site Trail                                                 | REC3186          | 2000/12/14                   |
| Skookum Creek – Mamquam River Put-in                                  | REC169083        | 2013/06/20                   |
| Soo River Falls Site                                                  | REC3064          | 2000/12/14                   |
| Soo River site                                                        | REC3063          | 2000/12/14                   |
| Sloquet Hotsprings                                                    | REC0023          | 1991/08/01                   |
| Spetch Creek Site                                                     | REC0230          | 1991/08/01                   |
| Starvation Lake                                                       | REC6288          |                              |
| Strawberry Point                                                      | REC0221          | 1991/08/01                   |
| Tantalus Landing (MARINE)                                             | REC169890        | 2014/11/07                   |
| Tenquille /Owl Lake Trail System                                      | REC5637          | 2003/05/15                   |
| Tenquille trail from Lillooet River                                   | REC166973        | 2001/08/01                   |
| Tenquille Lake                                                        | REC0237          | 1983/02/10                   |
| Tenquille Lake. (Branch 12) Trail                                     | REC6131          | 2001/08/01                   |
| The Corners Recreation Trail                                          | REC32503         | 2010/01/04                   |
| Thornbrough Channel (MARINE)                                          | REC169898        | 2014/11/07                   |
| Twin One Creek                                                        | REC0218          | 1991/08/01                   |
| Upper Lillooet                                                        | REC6784          | 2002/01/04                   |
| Whistler Interpretive Forest                                          | REC6264          | 2003/05/29                   |
| Whiskey Lake                                                          | REC6903          | 2003/05/15                   |
| Wonderland Recreation Trail                                           | REC16124         | 2010/01/04                   |
| Young Lake                                                            | REC6900          | 2003/02/03                   |
| Zorro Bay (MARINE)                                                    | REC169894        | 2014/11/07                   |

## 2.9 Visual Quality

### 2.9.1 Relevant Established Objectives

Scenic areas that were made known for the Sea to Sky Natural Resource District and Visual Quality Objectives (VQOs) that were formally established are continued under Section 181 of FRPA.

**Section 181**

*All objectives in respect of areas continued under section 180 that were in effect immediately before the effective date are continued as objectives under this Act.*

As well, within known scenic areas, recommend Visual Quality Classes (rVQC) were specified and are carried forward as VQO's under Section 17 of GAR.

**Section 17**

*A visual quality class for a scenic area is continued under this regulation as a visual quality objective if*

*(a) the visual quality class has been*

*(i) set out before October 24, 2002 in a letter from the district manager to the holder of an agreement under the Forest Act, or*

*(ii) included in the most recent tree farm licence visual landscape inventory prepared by the holder of a tree farm licence and approved by the regional manager, and*

*(b) in existence on the coming into force of this section.*

For the purposes of this FSP, the individual VQO categories (preservation, retention, partial retention, modification, and maximum modification) are legally defined in Section 1.1 of the FPPR.

### 2.9.2 Results, Strategies and Measures

| Visual Quality |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU            |     | Result, Strategy or Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CHS226         | All | <p><b>RESULT:</b></p> <p>The TSM will be consistent with:</p> <ul style="list-style-type: none"><li>a) the visual quality objectives as established by the District Manager and outlined in the letter to "All Licensees, Squamish Forest District" (December 18, 1995),</li><li>b) any subsequent amendments made by the District Manager, and</li><li>c) Ministerial orders as listed in Table 1.</li></ul> <p>Prior to authorizing primary forest activities, where VQOs apply, the TSM will:</p> <ul style="list-style-type: none"><li>a) ensure a detailed Visual Impact Assessment is completed by a qualified professional to ensure the activities are consistent with the VQO, taking into account the current state of the VQO and the effects of surrounding development, and</li><li>b) ensure the Visual Impact Assessment is reviewed, design recommendations for primary forest activities are specified in a plan and that primary forest activities are consistent with the plan.</li></ul> |

## 2.10 Measures to Prevent the Introduction and Spread of Invasive Plants

### 2.10.1 Results, Strategies and Measures

| Measures to Prevent the Introduction and Spread of Invasive Plants |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU                                                                |     | Result, Strategy or Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CHS227                                                             | All | <p><b>MEASURE:</b></p> <ol style="list-style-type: none"> <li>1) For the purposes of Section 47 of the FRPA, to prevent the introduction or spread of invasive plants, if such introduction or spread is likely to be the result of forest practices carried out under this FSP by the plan holder(s) or a Timber Sales Licence Agreement Holder, the following steps / measures will be taken: Prior to undertaking any field activity that will result in soil disturbance, review the BCMOF Invasive Alien Plant Program (IAPP) database, to determine the presence of invasive plants in the vicinity of the proposed forest development activities. A field review will be completed to determine if new invasive plants exist or if existing invasive plants have spread beyond the location identified in the IAPP database.</li> <li>2) When new invasive plants are identified or have spread beyond the reported location, this information will be reported to the IAPP database.</li> <li>3) Measures to prevent the introduction and/or the spread of invasive plants will be specified and implemented in a plan. This plan will include:               <ol style="list-style-type: none"> <li>a) the timing of grass seed application,</li> <li>b) washing of equipment capable of disturbing soils in the harvesting or road building phase to ensure that invasive plant reproductive material is removed</li> <li>c) no storage of equipment in areas of infestation,</li> <li>d) no use of material from infested soils, and</li> <li>e) maintaining records of the location and timing of grass seeding.</li> <li>f) monitoring for invasive plants, to occur during scheduled silviculture surveys conducted following completion of timber harvesting.</li> </ol> </li> <li>4) Preferred grass seed will be used and must have the following attributes:               <ol style="list-style-type: none"> <li>a) high sod-forming content except in areas that are planted with tree seedlings,</li> <li>b) certified by the Canadian Seed Growers Association                   <ol style="list-style-type: none"> <li>i. that the seed meets Common #1 Forage Grade or better standards for varietal purity established by the Association for seed of that kind of species (seeds Act, Seeds Regulation S. 2(1)), and</li> </ol> </li> <li>c) is of native origin.</li> </ol> </li> <li>5) Timing of grass seeding is based on the following:               <ol style="list-style-type: none"> <li>a) apply grass seed when germination has the best probability of success,</li> <li>b) where germination levels cover less than 80% of the treatment area, one additional application of grass seeding will be done.</li> </ol> </li> <li>6) Newly disturbed soils will be grass seeded, except for:               <ol style="list-style-type: none"> <li>a) soils that will be occupied by seedlings as part of the Net Area to be Reforested,</li> <li>b) soils where there are no known invasive plants within 500m of disturbed soils.</li> </ol> </li> </ol> |

## 2.11 Natural Range Barriers

### 2.11.1 Relevant Established Objectives:

Under Section 48 of FRPA and Section 18 of the FPPR, the FSP must specify measures to mitigate the effect of removing or rendering ineffective natural range barriers.

#### **Natural range barriers**

##### **Section 48**

(1) A person carrying out

(a) a forest practice, or

(b) a range practice

that directly or indirectly removes or renders ineffective a natural range barrier must carry out measures that are

(c) specified in an operational plan for the area, or

(d) authorized by the minister

to mitigate the removal or the ineffectiveness of the natural range barrier.

(2) Despite expiry of the operational plan referred to in subsection (1) (c), subsection (1) continues to apply to the holder of that plan in respect of any area that is

(a) in a forest development unit included in the plan, and

(b) subject to a cutting permit or road permit issued in respect of the plan before the plan expired.

(3) If a forest stewardship plan is amended to remove the holder of a licence or an agreement as a party to the plan, subsection (1) continues to apply to that holder in respect of any area that is

(a) in a forest development unit included in the plan, and

(b) subject to a cutting permit or road permit issued in respect of the plan before the plan was amended.

##### **Section 18**

For the purpose of section 48 [natural range barriers] of the Act, a person who prepares a forest stewardship plan must specify measures to mitigate the effect of removing or rendering ineffective natural range barriers

### 2.10.2 Results, Strategies and Measures:

| Natural Range Barriers |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU                    |      | Result, Strategy or Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CHS228                 | Ryan | <p><b>MEASURE:</b><br/>The TSM will:</p> <ol style="list-style-type: none"> <li>1. identify areas that are subject to, or adjacent to, tenures under the <i>Range Act</i> with respect to grazing of livestock.</li> <li>2. refer to the affected tenure holders under the <i>Range Act</i> of proposed timber harvest and road construction activities.</li> </ol> <p>Where an affected agreement holder under the <i>Range Act</i> indicates that the proposed activities will remove or render ineffective a natural range barrier, the TSM will:</p> <ol style="list-style-type: none"> <li>1. develop measures, using input from the agreement holder and a qualified professional, to mitigate the impact of primary forest activities, including the re-establishment of a barrier (i.e. using a fence and/or cattleguard).</li> </ol> |

### 3 Additional FSP Information

In addition to objectives, strategies and results, there are several other items to be addressed in the FSP, as outlined in section 3.1 to 3.4

#### 3.1 Stocking Standards

##### 3.1.1 Specification of Situations and Circumstances under Section 16 of FPPR

###### **Section 16**

(1) A person required to prepare a forest stewardship plan must ensure that the plan specifies the situations or circumstances that determine when section 44 (1) [free growing stands generally] or section 45 [free growing stands collectively across cutblocks] will apply to an area.

(2) In specifying a stocking standard under this section, a person who prepares a forest stewardship plan may consider the factors set out in section 6 [factors relating to stocking standards] of Schedule 1.

(3) A person required to prepare a forest stewardship plan must ensure that the plan specifies, for each of the situations or circumstances specified under subsection (1) where

- (a) section 44 (1) (a) will apply, the regeneration date and stocking standards,
- (b) section 44 (1) (b) will apply, the free growing height and stocking standards,
- (c) section 45 (1) will apply, the regeneration date and the stocking standards, and
- (d) section 45 (2) will apply, the free growing date and the stocking standards, as approved by the chief forester.

(4) A person required to prepare a forest stewardship plan must ensure that the plan specifies stocking standards for areas referred to in section 44 (4), and the situations or circumstances that determine when the stocking standards will be applied.

(5) A holder of a major licence that is a forestry licence to cut entered into under section 24.8 of the Forest Act or converted into a forestry licence to cut under section 24.9 of the Forest Act is exempt from this section.

FPPR section 44(1) applies in all situations or circumstances under the FSP where a free growing stand is required to be established under FRPA section 29.

Where harvesting of special forest products, intermediate cuts or commercial thinning occurs as per FRPA S.44(4)(h) and (i), the Stocking Standards will be maintained for a period of at least 12 months following the completion of intermediate timber harvesting on the area that the harvesting took place.

Stocking standards tables are based on the following references, as well as climate change information from various sources.

1. A Field Guide to Site Identification and Interpretation for the Vancouver Forest Region Land Management Handbook 28 (1994).
2. Updates to the Reference Guide for FDP stocking standards (last updated September 7, 2021): Climate-change Related Stocking Standards. (Feb 3, 2014).

In accordance with FRPA section 197(8), BCTS specifies that it may choose to amend the stocking standards for silviculture prescriptions or site plans that are already in existence to conform to this FSP.

##### 3.1.2 Stocking standards with deciduous species as acceptable species

| Stocking Standards including a deciduous component as acceptable species |     |                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU                                                                      |     | Result, Strategy or Measure                                                                                                                                                                                                                                        |
| CHS229                                                                   | All | <b>MEASURE:</b><br>The TSM will ensure that, for all stocking standards where deciduous species are specified as acceptable, the deciduous component of the well-spaced and/or free growing stand must not exceed 10% as defined from survey data/RESULTS records. |

### 3.1.3 Stocking standards with deciduous species as preferred species

Deciduous stocking standards are included in this FSP, which specify *Alnus rubra* (alder) as preferred species for a limited number of ecologically suitable sites. These standards and the measures described below are based on guidance provided in: “*Hardwood Management in the Coast Forest Region*, File: 00202-20/53908F, SWG Hardwood Management Strategy. Not dated.” and “*Incorporation of mixedwood and broadleaves into Forest Stewardship Plan stocking standards, SP amendments and TSR regeneration assumptions*. Jim Snetsinger, RPF. Dated May 1, 2008.”



Picture 1: Pure Red Alder (*Alnus rubra*) stand in Deeks Creek area

| Deciduous Stocking Standards |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDU                          |     | Result, Strategy or Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CHS230                       | All | <b>MEASURE:</b><br>The TSM will apply the following hardwood management practices for harvest blocks where the deciduous stocking standards are prescribed. Hardwood management will only be: <ol style="list-style-type: none"> <li>1. considered when the main objective is to produce products (i.e. sawlogs) to support short term timber supply,</li> <li>2. applied to a maximum of 30 hectares per year,</li> <li>3. applied to minimum size of one hectare (contiguous) to ensure economic viability.</li> </ol> |

**Table 4 - Abbreviations**

| Conifer tree spp.              | Scientific Name                  | Broadleaf tree spp.     | Scientific Name            |
|--------------------------------|----------------------------------|-------------------------|----------------------------|
| Ba = Amabilis fir              | <i>Abies amabilis</i>            | Acb = Balsam poplar     | <i>Populus balsamifera</i> |
| Bg = Grand fir                 | <i>Abies grandis</i>             | Act = Black cottonwood  | <i>Populus trichocarpa</i> |
| Bl = Subalpine fir             | <i>Abies lasiocarpa</i>          | At = Trembling aspen    | <i>Populus tremuloides</i> |
| Bp = Noble fir                 | <i>Abies procera</i>             | Dr = Red alder          | <i>Alnus rubra</i>         |
| Cw = Western red cedar         | <i>Thuja plicata</i>             | Ep = Common paper birch | <i>Betula papyrifera</i>   |
| Fd = Douglas-fir               | <i>Pseudotsuga menziesii</i>     | Mb = Bigleaf maple      | <i>Acer macrophyllum</i>   |
| Hm = Mountain hemlock          | <i>Tsuga mertensiana</i>         | Og = Garry oak          | <i>Quercus garryana</i>    |
| Hw = Western hemlock           | <i>Tsuga heterophylla</i>        | Ra = Arbutus            | <i>Arbutus menziesii</i>   |
| Lt = Tamarack                  | <i>Larix laricina</i>            |                         |                            |
| Lw = Western larch             | <i>Larix occidentalis</i>        |                         |                            |
| Pa = Whitebark pine            | <i>Pinus albicaulis</i>          |                         |                            |
| Pl = Lodgepole pine            | <i>Pinus contorta</i>            |                         |                            |
| Pw = White pine                | <i>Pinus strobus</i>             |                         |                            |
| Py = Ponderosa pine            | <i>Pinus ponderosa</i>           |                         |                            |
| Sb = Black spruce              | <i>Picea mariana</i>             |                         |                            |
| Se = Engelmann spruce          | <i>Picea engelmannii</i>         |                         |                            |
| Ss = Sitka spruce              | <i>Picea sitchensis</i>          |                         |                            |
| Sw = White spruce              | <i>Picea glauca</i>              |                         |                            |
| Sx = Hybrid or interior spruce | <i>Picea sitchensis</i>          |                         |                            |
| Sxs = Hybrid Sitka spruce      | <i>Picea sitchensis</i>          |                         |                            |
| Sxw = Hybrid white spruce      | <i>Picea glauca</i>              |                         |                            |
| Yc = Yellow cedar              | <i>Callitropsis nootkatensis</i> |                         |                            |
|                                |                                  |                         |                            |

### 3.1.4 Rules for Modifying Stocking Standards

This list of rules will be used by qualified professionals when prescribing a stocking standard for a block. They indicate the process and criteria for modifications to an approved standard, and also require that these modifications be supported by a rationale, documented and incorporated into a plan.

#### Rule 1. Site Series Mosaics/Complexes

Where more than one site series is located within a logical standards unit area, the dominant site series standard will apply. minimum size of 1 hectare.

This standard can be modified to include additional species selected from subdominant site series standard, for those specific areas of the mosaic or complex. These additional components to the standard will be supported by a rationale, documented and incorporated into a plan.

## **Rule 2. Transitional Sites**

On transitional sites occurring between two BEC units, the dominant BEC unit standard will apply. This standard can be modified with the inclusion of components of the standard associated with the sub-dominant BEC unit.

These additional components to the standard will be supported by a rationale, documented, and incorporated into a plan.

## **Rule 3. Minimum Intertree Distance (MITD)**

The general MITD of 2.0 metres can be reduced down to 1.5 metres for any given sites where productive and plantable sites spots are limited by pre-harvest site characteristics as described below. These are limited to colluvium sites, sites with an overstory canopy and wet sites. Reduced inter-tree distance will maximize site occupancy in these conditions:

- Colluvial sites have a high percentage of surface or sub-surface rock that results in soil that is either shallow or dispersed in narrow gaps between rocks. These sites are near or overlaying bedrock outcrops, talus slopes, slide paths and avalanche paths.
- Overstory canopy sites are sites that require planting in canopy openings that will not be evenly distributed. Maximize site occupancy where overstory canopy limit plantable spots.
- Wet sites are sites with organic non-decomposed soils, flooded depressions, high water tables, and sites where the soil moisture as defined in Land Management Handbook #28 is rated as a 6 or 7.

Justification for a reduced MITD will be supported by a rationale, documented and incorporated into a plan.

## **Rule 4. The crop tree height to brush ratio in a fireweed complex can be lowered to 100%.**

Justification for a reduced ratio will be supported by a rationale, documented and incorporated into a plan.

## **Rule 5. Leave Trees**

The minimum characteristics, in order for leave trees to contribute toward the free growing stand, are they must be of good form, health and vigour and otherwise meet the stocking standards for that site.

In situations where leave trees will not contribute to the free growing stand, those trees within the harvest area must have characteristics appropriate to meet forest management objectives developed for the site.

The forest management objectives must be supported by a rationale, documented and incorporated into a plan.

## **Rule 6. Western Larch Range Expansion LR2**

Western Larch can be considered an acceptable species in the D'Arcy area of the Sea to Sky Natural Resource District. Limit densities to 200 stems per hectare or less on the mid to lower South facing slopes away from major waterbodies in the LW1 Seed Planning Zone (See attached map and announcement in Appendix A)

### 3.1.5 Root Disease Management Strategies and Stocking Standards.

If the block planning indicates a root rot survey is warranted (i.e. noted forest health agent on site), BCTS will conduct the survey, and the results will be reviewed by a qualified professional who may apply general management strategies to amend the approved stocking standards, which may include, but are not limited to the following:

- 1) Indicate moderately susceptible or tolerant coniferous species as acceptable and/ or:
- 2) Reduce minimum inter-tree spacing to allow for inoculums avoidance planting and/or:
- 3) Reduce stocking levels of preferred and acceptable species below minimum stocking standard, provided all prescribed operations intended to abate the risk of root disease have been fully implemented.

### 3.1.6 Intermediate Cutting and Commercial Thinning Stocking Standards

As per FPPR Section 16(4), the following stocking standards apply to these types of harvesting:

- (i) Intermediate Cutting: No reforestation objectives apply when a qualified professional prescribes an intermediate cutting treatment for an area that removes timber prior to the final harvest and is not being managed as a part of an uneven-aged Silviculture system.
- (ii) Commercial Thinning: No reforestation objectives apply when a qualified professional prescribes a commercial thinning treatment, and the area is not part of an uneven-aged Silviculture system.

Intermediate Cutting (IC) & Commercial Thinning (CT) will be limited to 30,000 m<sup>3</sup> for both per year of combined volume harvested by all signatories of this FSP.

The following stand level conditions will apply:

- i) the post-harvest basal area is greater than 40 square metres per hectare.
- ii) remaining stems to be considered as acceptable leave trees, will not have stem scarring of more than 400cm<sup>2</sup> per tree to a maximum of 50 trees / hectare.

Leave tree criteria must follow the SEDRSS standards for leave tree in addition to the Silviculture survey standards.

- iii) any opening created that is greater than 0.2 hectare in size will be managed as if it was clearcut as per appropriate stocking standards in Appendix A.
- iv) the post-harvest species composition of Cw, Fdc, and Yc, varies less than 20% from the original species composition.

For Cw, Fdc, and Yc, 20% or less of each species will be removed from the stand, based on the original Basal Area for each species. Hw, Ba, and Sx species will not be restricted by the 20%. CT and IC harvesting will be restricted to areas where an overhead canopy of 40 m<sup>2</sup>/ha is required to meet environmental or social concerns.

A commercially valuable stand must be retained after harvest. To ensure this, for each species, 50% or greater must be retained (leave trees) from each 5 cm diameter limit class.

The licensee will submit into RESULTS both cruises of the original stand and leave tree data prior to harvesting. The leave tree data will be the standards used by the FSP holder(s) for measuring ecological acceptable species and characteristics, quantity, and distribution of retain trees. Leave tree Basal Area per hectare (m<sup>2</sup>/ha) must be within 5% of each species original cruise m<sup>2</sup>/ha.

The FSP holder(s) will wait 10 years before returning to harvest the same area unless agreed to by the Squamish Natural Resource District Manager (ie. to address forest health / salvage issues).

### 3.1.7 Colluvium Stocking Standards

Reduced Minimum Stocking Standard (RMSS). The RMSS is only to be used when developed blocks are located in terrain where there are less than 400 plantable spots per hectare. These areas are usually confirmed by low stump density and usually consist of rocky areas, colluvium, and scattered non productive rock areas. This reduced standard will be determined by a qualified professional and supported by rationale, documented, and incorporated into a plan.

### 3.1.8 Amendments

In accordance with section 197 (5) of FRPA, BCTS specifies that it may choose to amend the stocking standards for silviculture prescription or site plans that are already in existence to conform to this FSP.

### 3.1.9 Aspen in IDF ww

BCTS will be incorporating Aspen as an acceptable species in the IDF ww subzone. Aspen is regenerating naturally in this area. Clumps of regenerating Aspen within the block will be retained and form part of the silviculture inventory as an acceptable species.

### Stocking Standard Tables



| STANDARDS<br>REGIME ID | BGC<br>ZONE | BGC SUB<br>ZONE | BGC<br>VARIANT | SITE<br>SERIES | STANDARDS<br>OBJECTIVE | STOCKING<br>LAYER | TARGET<br>STOCKING | MIN<br>STOCKING | MIN<br>PREFERRED<br>STOCKING | MIN<br>HORIZONTAL<br>DISTANCE | HEIGHT<br>RELATIVE<br>TO COMP | PREFERRED<br>SPECIES<br>(minimum<br>height) | ACCEPTABLE<br>SPECIES<br>(minimum<br>height) | REGEN<br>DELAY<br>OFFSET<br>YRS | FG LATE<br>OFFSET<br>YRS | Comments                                                                                                                                                                                                                                                                                             |
|------------------------|-------------|-----------------|----------------|----------------|------------------------|-------------------|--------------------|-----------------|------------------------------|-------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1051856                | CWH         | dm              |                | 1              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | FDC(3.0)<br>CW(1.5)<br>HW(3.0)              | PW(2.5)<br>DR(4.0)<br>EP(4.0)                | 3                               | 20                       | HW: suitable in wetter portion of BEC unit, restricted to upper elevations of biogeoclimatic unit. DR: as minor component on nutrient medium to rich sites. EP: restricted to eastern portions of the Biogeoclimatic unit in Region as a minor species.                                              |
| 1051857                | CWH         | dm              |                | 1              | deciduous mgmt         | I                 | 1200               | 700             | 500                          | 2                             | 150                           | DR(4.0)                                     | MB(4.0)<br>ACT(4.0)<br>CW(1.5)<br>HW(3.0)    | 3                               | 11                       | DR: Elevation <450m; <30% slope on N, NE, NW aspect, <20% on E, SE, S, SW, or W aspect; on sites protected from winds; Plant 1400-1600 sph with large stock types 512's or larger; avoid cold air drainages, avoid hot dry exposures (ridges and bluffs), avoid sandy, rocky, gravelly shallow soils |
| 1051858                | CWH         | dm              |                | 3              |                        | I                 | 800                | 400             | 400                          | 2                             | 150                           | FDC(2.0)<br>HW(2.0)<br>CW(1.0)              | LW(1.0) PW<br>(2.0)                          | 3                               | 20                       | LW: on trial basis except in the NE portion of the Sea To Sky Natural Resource District Seed Planning Zone Lw1 where it can be planted operationally at a maximum of 200 stems/ha.                                                                                                                   |
| 1051859                | CWH         | dm              |                | 4              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | FDC(3.0)<br>CW(1.5)                         | PW(2.5)<br>Lw(1.5)<br>HW(3.0)                | 3                               | 20                       | LW: on trial basis.                                                                                                                                                                                                                                                                                  |
| 1051860                | CWH         | dm              |                | 5              | deciduous mgmt         | I                 | 1200               | 700             | 500                          | 2                             | 150                           | DR(4.0)                                     | MB(4.0)<br>EP(4.0)                           | 3                               | 11                       | DR: Elevation<450m; <30% slope on N, NE, NW aspect; <20% on E, SE, S, SW, or W aspect; on sites protected from winds; Plant 1400-1600 sph; with large stock types 512's or larger; avoid cold air drainages, avoid hot dry exposures (ridges and bluffs), avoid sandy, rocky, gravelly shallow soils |
| 1051861                | CWH         | dm              |                | 5              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | CW(2.0)<br>FDC(4.0)                         | PW(2.5)<br>HW(4.0)<br>DR(4.0)                | 3                               | 20                       | DR: accepted as minor component.                                                                                                                                                                                                                                                                     |
| 1051863                | CWH         | dm              |                | 6              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | CW(1.5)<br>HW(3.0)                          | FDC(3.0)<br>DR(4.0)                          | 6                               | 20                       | DR: accepted as minor component; FDC: on elevated microsites                                                                                                                                                                                                                                         |
| 1051864                | CWH         | dm              |                | 7              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | CW(2.0)<br>FDC(4.0)                         | HW(4.0)<br>BG(3.5)<br>DR(4.0)                | 3                               | 20                       | DR: accepted as minor component                                                                                                                                                                                                                                                                      |
| 1051865                | CWH         | dm              |                | 8              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | BG(3.5)<br>CW(2.0)                          | DR(4.0)                                      | 3                               | 20                       | DR: accepted as minor component                                                                                                                                                                                                                                                                      |
| 1051866                | CWH         | dm              |                | 9              |                        | I                 | 900                | 500             | 400                          | 1.5                           | 150                           | CW(2.0)                                     | BG(3.5)<br>DR(4.0)                           | 3                               | 20                       | All species: on elevated microsites                                                                                                                                                                                                                                                                  |
| 1051867                | CWH         | dm              |                | 11             |                        | I                 | 400                | 200             | 200                          | 1.5                           | 150                           | PLC(1.3)                                    | CW(1.0)                                      | 3                               | 20                       | All species: on elevated microsites                                                                                                                                                                                                                                                                  |
| 1051868                | CWH         | dm              |                | 12             |                        | I                 | 800                | 400             | 400                          | 1.5                           | 150                           | CW(1.0)                                     | HW(2.0)<br>PW(2.5)<br>SS(3.0)                | 3                               | 20                       | All species: on elevated microsites; HW: suitable on thick forest floors                                                                                                                                                                                                                             |
| 1051869                | CWH         | dm              |                | 13             |                        | I                 | 900                | 500             | 400                          | 1.5                           | 150                           | BG(3.5)<br>CW(2.0)<br>FDC(4.0)              | DR(4.0)                                      | 3                               | 20                       | FDC: on elevated microsites                                                                                                                                                                                                                                                                          |

| STANDARDS<br>REGIME ID | BGC<br>ZONE | BGC SUB<br>ZONE | BGC<br>VARIANT | SITE<br>SERIES | STANDARDS<br>OBJECTIVE | STOCKING<br>LAYER | TARGET<br>STOCKING | MIN<br>STOCKING | MIN<br>PREFERRED<br>STOCKING | MIN<br>HORIZONTAL<br>DISTANCE | HEIGHT<br>RELATIVE<br>TO COMP | PREFERRED<br>SPECIES<br>(minimum<br>height) | ACCEPTABLE<br>SPECIES<br>(minimum<br>height) | REGEN<br>DELAY<br>OFFSET<br>YRS | FG LATE<br>OFFSET<br>YRS | Comments                                                                                                                                                                                                                                                                            |
|------------------------|-------------|-----------------|----------------|----------------|------------------------|-------------------|--------------------|-----------------|------------------------------|-------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1051870                | CWH         | dm              |                | 14             |                        | I                 | 900                | 500             | 400                          | 1.5                           | 150                           | BG(3.5)<br>CW(2.0)                          | DR(4.0)                                      | 3                               | 20                       | All species: on elevated microsites                                                                                                                                                                                                                                                 |
| 1051871                | CWH         | dm              |                | 15             |                        | I                 | 800                | 400             | 400                          | 1.5                           | 150                           | CW(1.0)                                     |                                              | 3                               | 20                       | All species: on elevated microsites                                                                                                                                                                                                                                                 |
| 1051872                | CWH         | ds              | 1              | 1              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | FDC(2.3)<br>CW(1.5)                         | PW(2.5)<br>HW(1.0)<br>DR(4.0)                | 3                               | 20                       | CW: moved from acceptable to preferred to help manage localized areas of root rot;<br>Hw: suitable as a major species in wetter portion of biogeoclimatic unit                                                                                                                      |
| 1051873                | CWH         | ds              | 1              | 1, 5, 6        | deciduous mgmt         | I                 | 1200               | 700             | 500                          | 2                             | 150                           | DR(4.0)                                     | ACT(4.0)<br>MB(4.0)<br>EP(4.0)               | 3                               | 11                       | DR: Elevation <450m; <30% on N, NE, NW aspect; <20% on E or W aspect; on sites protected from winds; Plant 1400-1600 sph; with large stock types 512's or larger; avoid cold air drainages, avoid hot dry exposures (ridges and bluffs), avoid sandy, rocky, gravelly shallow soils |
| 1051876                | CWH         | ds              | 1              | 3              |                        | I                 | 800                | 400             | 400                          | 2                             | 150                           | FDC(1.5)                                    | PY(1.0)<br>CW(1.0)<br>HW(0.8)<br>PLC(1.3)    | 3                               | 20                       | PLC: restricted to nutrient-very-poor sites; PY: restricted to trial use, to nutrient-medium sites and to eastern portion of BEC unit in region                                                                                                                                     |
| 1051877                | CWH         | ds              | 1              | 4              |                        | I                 | 800                | 400             | 400                          | 2                             | 150                           | FDC(2.3)<br>CW(1.5)                         | PW(2.5)<br>PY(1.3)                           | 3                               | 20                       | PY: restricted to trial use and to eastern portion of BEC unit in region                                                                                                                                                                                                            |
| 1051878                | CWH         | ds              | 1              | 5              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | FDC(2.3)<br>CW(1.5)                         | PW(2.5)<br>HW(1.0)<br>SX(1.0)<br>DR(4.0)     | 3                               | 20                       | SX: restricted to upper elevations and to eastern portion of BEC unit in region; Pw: restricted to upper elevations of biogeoclimatic unit                                                                                                                                          |
| 1051879                | CWH         | ds              | 1              | 6              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | HW(1.0)<br>FDC(2.3)                         | CW(1.5)<br>DR(4.0)                           | 6                               | 20                       | DR: accepted as minor component; CW: suitable as a major species in wetter portion of biogeoclimatic unit;                                                                                                                                                                          |
| 1051880                | CWH         | ds              | 1              | 7              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | CW(2.0)<br>FDC(3.0)                         | HW(1.3)<br>BG(2.0)<br>DR(4.0)                | 3                               | 20                       | BG: restricted to lower elevations                                                                                                                                                                                                                                                  |
| 1051881                | CWH         | ds              | 1              | 8              |                        | I                 | 900                | 500             | 400                          | 1.5                           | 150                           | CW(2.0)                                     | SX(2.0)<br>SS(3.0)<br>BG(2.0)<br>DR(4.0)     | 3                               | 20                       | BG: restricted to lower elevations                                                                                                                                                                                                                                                  |
| 1051882                | CWH         | ds              | 1              | 9              | mixed wood management  | I                 | 900                | 500             | 400                          | 1.5                           | 150                           | CW(2.0)<br>BG(2.0)                          | DR(4.0)                                      | 3                               | 20                       | All species-on elevated microsites; BG-restricted to lower elevations; DR- as minor component                                                                                                                                                                                       |
| 1051883                | CWH         | ms              | 1              | 1              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | FDC(2.3)<br>CW(1.5)                         | YC(1.5)<br>BA(0.8)<br>HW(1.5)<br>SX(1.0)     | 3                               | 20                       | HW: restricted to upper elevations; BA: restricted to upper elevations, restricted to northerly aspect; SX: restricted to upper elevations, minor component due to weevil risk                                                                                                      |
| 1051884                | CWH         | ms              | 1              | 3              |                        | I                 | 800                | 400             | 400                          | 2                             | 150                           | CW(1.5)<br>FDC(2.3)                         | HW(1.5)<br>BA(0.8)                           | 3                               | 20                       | BA: restricted to northerly aspects                                                                                                                                                                                                                                                 |

| STANDARDS REGIME ID | BGC ZONE | BGC SUB ZONE | BGC VARIANT | SITE SERIES | STANDARDS OBJECTIVE | STOCKING LAYER | TARGET STOCKING | MIN STOCKING | MIN PREFERRED STOCKING | MIN HORIZONTAL DISTANCE | HEIGHT RELATIVE TO COMP | PREFERRED SPECIES (minimum height)        | ACCEPTABLE SPECIES (minimum height)      | REGEN DELAY OFFSET YRS | FG LATE OFFSET YRS | Comments                                                                                                                                                                                                                                                    |
|---------------------|----------|--------------|-------------|-------------|---------------------|----------------|-----------------|--------------|------------------------|-------------------------|-------------------------|-------------------------------------------|------------------------------------------|------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1051885             | CWH      | ms           | 1           | 4           |                     | I              | 900             | 500          | 400                    | 2                       | 150                     | CW(2.0)<br>FDC(3.0)                       | HW(2.0)<br>PW(2.5)<br>YC(2.0)<br>BA(1.0) | 3                      | 20                 | HW, YC, BA: restricted to upper elevations; YC-restricted to western portion of BEC unit; SX restricted to eastern portion of biogeoclimatic unit in region                                                                                                 |
| 1051886             | CWH      | ms           | 1           | 5           |                     | I              | 900             | 500          | 400                    | 2                       | 150                     | CW(1.5)<br>YC(1.5)<br>BA(.8)<br>HW(1.5)   |                                          | 6                      | 20                 | YC, BA: restricted to upper elevations; YC: restricted to western portion of BEC unit; BA: restricted to northerly aspects                                                                                                                                  |
| 1051887             | CWH      | ms           | 1           | 6           |                     | I              | 900             | 500          | 400                    | 2                       | 150                     | FDC(3.0)<br>CW(2.0)<br>YC(2.0)<br>SX(1.3) | HW(2.0)<br>BG(2.5)<br>BA(1.0)            | 3                      | 20                 | YC: restricted to upper elevations & to western portion of BEC unit; SX: restricted to upper elevations; BG: restricted to lower elevations & to western portion of BEC unit; BA: restricted to northerly aspects & upper elevations of biogeoclimatic unit |
| 1051888             | CWH      | ms           | 1           | 7           |                     | I              | 900             | 500          | 400                    | 2                       | 150                     | BA(1.0)<br>CW(2.0)<br>SX(4.0)             | FDC(3.0)<br>SS(1.3)                      | 3                      | 20                 | Ba- restricted to upper elevations; Fdc-on elevated microsites; (SX18)Sx-restricted to eastern portion of biogeoclimatic unit in region; (SS613)Ss-acceptable only in SW portion of district;                                                               |
| 1051889             | CWH      | ms           | 1           | 8           |                     | I              | 900             | 500          | 400                    | 1.5                     | 150                     | CW(2.0)<br>BA(1.0)                        | SS(1.3)                                  | 3                      | 20                 | BA, CW: on elevated microsites; SS: acceptable only in SW portion of district                                                                                                                                                                               |
| 1051890             | CWH      | ms           | 1           | 11          |                     | I              | 800             | 400          | 400                    | 1.5                     | 150                     | CW(1.0)<br>YC(1.0)                        | PW(2.5)<br>SX(.8)                        | 3                      | 20                 | Cw, Sx: elevated microsites are preferred; Yc: restricted to upper elevations & to western portion of BEC unit in region                                                                                                                                    |
| 1051891             | CWH      | vm           | 1           | 1           | deciduous mgmt      | I              | 1200            | 700          | 500                    | 2                       | 150                     | DR(4.0)                                   | ACT(4.0)<br>MB(4.0)                      | 3                      | 11                 | DR: Elevation <300 m; <30% on N, NE, NW aspect, <20% on E or W aspect; on sites protected from winds; Plant 1400-1600 sph                                                                                                                                   |
| 1051892             | CWH      | vm           | 1           | 1           |                     | I              | 900             | 500          | 400                    | 2                       | 150                     | CW(1.5)<br>HW(3.0)<br>FDC(3.0)<br>BA(1.8) | DR(4.0)                                  | 6                      | 20                 | Where CWHvm1 is adjacent to geographically or above dm expand use of FDC as a preferred species and limit use of BA, CW and HW; BA: suitable minor spp on salal dominated sites                                                                             |
| 1051893             | CWH      | vm           | 1           | 2           |                     | I              | 400             | 200          | 200                    | 1.5                     | 150                     | PLC(1.3)<br>CW(1.0)<br>FDC(2.0)           | HW(2.0)                                  | 3                      | 20                 | FDC: restricted to southerly aspects                                                                                                                                                                                                                        |
| 1051894             | CWH      | vm           | 1           | 3           |                     | I              | 800             | 400          | 400                    | 2                       | 150                     | CW(1.0)<br>HW(2.0)<br>FDC(2.0)            | PLC(1.3)                                 | 6                      | 20                 | FDC: restricted to southerly aspects                                                                                                                                                                                                                        |
| 1051895             | CWH      | vm           | 1           | 4           |                     | I              | 900             | 500          | 400                    | 2                       | 150                     | CW(1.5)<br>HW(3.0)<br>FDC(3.0)            | BA(1.8)<br>SS(3.0)                       | 3                      | 20                 | Fdc-restricted to southerly aspects; Ss-acceptable only in SW portion of district;                                                                                                                                                                          |
| 1051896             | CWH      | vm           | 1           | 5           |                     | I              | 900             | 500          | 400                    | 2                       | 150                     | CW(1.5)<br>HW(3.0)<br>FDC(3.0)<br>BA(1.8) | SS(3.0)<br>Dr(4.0)                       | 3                      | 20                 | FDC: restricted to southerly aspects, elevated microsites are preferred; SS: acceptable only in SW portion of district                                                                                                                                      |

| STANDARDS<br>REGIME ID | BGC<br>ZONE | BGC SUB<br>ZONE | BGC<br>VARIANT | SITE<br>SERIES | STANDARDS<br>OBJECTIVE | STOCKING<br>LAYER | TARGET<br>STOCKING | MIN<br>STOCKING | MIN<br>PREFERRED<br>STOCKING | MIN<br>HORIZONTAL<br>DISTANCE | HEIGHT<br>RELATIVE<br>TO COMP | PREFERRED<br>SPECIES<br>(minimum<br>height) | ACCEPTABLE<br>SPECIES<br>(minimum<br>height) | REGEN<br>DELAY<br>OFFSET<br>YRS | FG LATE<br>OFFSET<br>YRS | Comments                                                                                                                                                                                                                                                                        |
|------------------------|-------------|-----------------|----------------|----------------|------------------------|-------------------|--------------------|-----------------|------------------------------|-------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1051897                | CWH         | vm              | 1              | 5,6            | deciduous mgmt         | I                 | 1200               | 700             | 500                          | 2                             | 150                           | DR(4.0)                                     | ACT(4.0)<br>MB(4.0)                          | 3                               | 11                       | Elevation <450m; <30% on N, NE, NW aspect, <20% on E or W aspect; on sites protected from winds; Plant 1400-1600 sph; with large stock types 512's or larger; avoid cold air drainages, avoid hot dry exposures (ridges and bluffs), avoid sandy, rocky, gravelly shallow soils |
| 1051899                | CWH         | vm              | 1              | 6              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | CW(1.5)<br>HW(3.0)<br>BA(1.8)               | SS(3.0)DR(4.0)                               | 6                               | 20                       | BA: suitable minor species on salal-dominated sites; SS: acceptable only in SW portion of district                                                                                                                                                                              |
| 1051900                | CWH         | vm              | 1              | 7              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | CW(2.0)HW(4.0)<br>BA(2.3)                   | SS(4.0)<br>FDC(4.0)<br>DR(4.0)               | 3                               | 20                       | FDC: on southerly aspect, restricted to trial use; HW: suitable on thick forest floors, elevated microsites are preferred; SS: acceptable only in SW portion of district                                                                                                        |
| 1051901                | CWH         | vm              | 1              | 8              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | BA(2.3)<br>CW(2.0)<br>HW(4.0)               | SS(4.0)<br>DR(4.0)                           | 3                               | 20                       | SS: acceptable only in SW portion of district; HW: suitable on thick forest floors                                                                                                                                                                                              |
| 1051902                | CWH         | vm              | 1              | 9              |                        | I                 | 900                | 500             | 400                          | 1.5                           | 150                           | BA(2.3)<br>CW(2.0)<br>HW(4.0)               | DR(4.0)SS(4.0)                               | 3                               | 20                       | SS: acceptable only in SW portion of district                                                                                                                                                                                                                                   |
| 1051903                | CWH         | vm              | 1              | 10             |                        | I                 | 900                | 500             | 400                          | 1.5                           | 150                           | CW(2.0)                                     | BA(2.3)<br>SS(4.0)<br>Dr(4.0)                | 3                               | 20                       | All species: elevated microsites are preferred; SS: acceptable only in SW portion of district                                                                                                                                                                                   |
| 1051904                | CWH         | vm              | 1              | 13             |                        | I                 | 400                | 200             | 200                          | 1.5                           | 150                           | PLC(1.3)                                    | CW(1.0)                                      | 3                               | 20                       | All species: elevated microsites preferred                                                                                                                                                                                                                                      |
| 1051905                | CWH         | vm              | 1              | 14             |                        | I                 | 800                | 400             | 400                          | 1.5                           | 150                           | CW(1.5)                                     | HW(3.0)<br>SS(3.0)                           | 3                               | 20                       | All species: elevated microsites preferred                                                                                                                                                                                                                                      |
| 1051906                | CWH         | vm              | 2              | 1              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | HW(2.5)<br>CW(1.5)<br>BA(1.8)               | HM(1.5)<br>FDC(2.3)<br>YC(1.5)               | 6                               | 20                       | YC: restricted to upper elevation in southern portion of the BEC unit; FDC: can be acceptable species on lower elevation, elevated microsites on Southerly aspects within the variant; BA: Limit use in interior transition areas; HM: restricted to the upper elevations       |
| 1051907                | CWH         | vm              | 2              | 3              |                        | I                 | 800                | 400             | 400                          | 2                             | 150                           | CW(1.0)<br>HW(1.8)<br>FDC(1.5)<br>YC(1.0)   | PW(2.5)                                      | 6                               | 20                       | FDC: restricted to southerly aspects; PW: restricted to southern portion of BEC unit in region; YC: restricted to upper elevation sites                                                                                                                                         |
| 1051908                | CWH         | vm              | 2              | 4              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | CW(1.0)<br>HW(1.8)<br>FDC(1.5)<br>YC(1.0)   | PW(2.5)<br>BA(1.5)<br>HM(1.0)                | 6                               | 20                       | YC: restricted to upper elevation in southern portion of the BEC unit; FDC: on southerly aspects; PW: restricted to southern portion of biogeoclimatic unit in region                                                                                                           |
| 1051909                | CWH         | vm              | 2              | 5              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | CW(1.5)<br>HW(2.5)<br>YC(1.5)<br>BA(1.8)    | FDC(2.3)<br>SS(3.0)                          | 3                               | 20                       | YC: restricted to upper elevation in southern portion of the BEC unit; FDC: restricted to trial use on steep slope and on southerly aspects                                                                                                                                     |
| 1051910                | CWH         | vm              | 2              | 6              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | CW(1.5)<br>HW(2.5)<br>YC(1.5)<br>BA(1.8)    | HM(1.0)                                      | 6                               | 20                       | Yc: restricted to upper elevation in southern portion of the BEC unit; Hm: on upper elevation sites                                                                                                                                                                             |

| STANDARDS<br>REGIME ID | BGC<br>ZONE | BGC SUB<br>ZONE | BGC<br>VARIANT | SITE<br>SERIES | STANDARDS<br>OBJECTIVE | STOCKING<br>LAYER | TARGET<br>STOCKING | MIN<br>STOCKING | MIN<br>PREFERRED<br>STOCKING | MIN<br>HORIZONTAL<br>DISTANCE | HEIGHT<br>RELATIVE<br>TO COMP | PREFERRED<br>SPECIES<br>(minimum<br>height) | ACCEPTABLE<br>SPECIES<br>(minimum<br>height)          | REGEN<br>DELAY<br>OFFSET<br>YRS | FG LATE<br>OFFSET<br>YRS | Comments                                                                                                                                                                                                                                                              |
|------------------------|-------------|-----------------|----------------|----------------|------------------------|-------------------|--------------------|-----------------|------------------------------|-------------------------------|-------------------------------|---------------------------------------------|-------------------------------------------------------|---------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1051911                | CWH         | vm              | 2              | 7              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | CW(2.0)<br>HW(3.5)<br>YC(2.0)<br>BA(2.3)    | HM(1.0)<br>SS(4.0)                                    | 3                               | 20                       | YC: restricted to upper elevation in southern portion of the BEC unit; HM: on upper elevation sites; HM: suitable on thick forest floors                                                                                                                              |
| 1051912                | CWH         | vm              | 2              | 8              |                        | I                 | 900                | 500             | 400                          | 2                             | 150                           | CW(2.0)<br>HW(3.5)<br>YC(2.0)<br>BA(2.3)    | HM(1.5)                                               | 3                               | 20                       | CW: restricted to lower elevations of biogeoclimatic unit; SS: acceptable only in SW portion of the district; HM: on upper elevation sites                                                                                                                            |
| 1051913                | CWH         | vm              | 2              | 9              |                        | I                 | 800                | 400             | 400                          | 1.5                           | 150                           | CW(1.0)<br>HW(1.8)<br>YC(1.0)               | BA(1.5)<br>HM(1.8)                                    | 3                               | 20                       | All species: on elevated microsites; HM: on upper elevation sites                                                                                                                                                                                                     |
| 1051914                | CWH         | vm              | 2              | 10             |                        | I                 | 400                | 200             | 200                          | 1.5                           | 150                           | PLC(1.3)<br>YC(1.0)                         | HM(1.8)                                               | 3                               | 20                       | All species: on elevated microsites; YC: restricted to upper elevation in southern portion of the BEC unit; HM: on upper elevation sites                                                                                                                              |
| 1051915                | CWH         | vm              | 2              | 11             |                        | I                 | 800                | 400             | 400                          | 1.5                           | 150                           | CW(1.0)<br>YC(1.0)                          | HW(1.8)<br>HM(1.8)                                    | 3                               | 20                       | All species: on elevated microsites; YC: restricted to upper elevation in southern portion of the BEC unit; HM: on upper elevation sites                                                                                                                              |
| 1051916                | ESSF        | mw              |                | 1              |                        | I                 | 1200               | 700             | 600                          | 2                             | 125                           | SX(1.0)<br>BA(.6) BL(.8)                    | PLC(2.0)                                              | 4                               | 20                       |                                                                                                                                                                                                                                                                       |
| 1051917                | ESSF        | mw              |                | 2              |                        | I                 | 1000               | 500             | 400                          | 2                             | 125                           | PLC(1.3)<br>FDC(1.0)                        | SX(.8)                                                | 7                               | 20                       | FDC: restricted to southerly aspects and to lower elevations of biogeoclimatic unit                                                                                                                                                                                   |
| 1051918                | ESSF        | mw              |                | 3              |                        | I                 | 1000               | 500             | 400                          | 2                             | 125                           | PLC(1.3)<br>FDC(1.0)<br>SX(.8)              | BL(.6)                                                | 7                               | 20                       | FDC: restricted to southerly aspects and to lower elevations of biogeoclimatic unit                                                                                                                                                                                   |
| 1051919                | ESSF        | mw              |                | 4              |                        | I                 | 1200               | 700             | 600                          | 2                             | 125                           | PLC(1.3)<br>SX(.8)<br>FDC(1.0)              | BL(.6) BA(.6)                                         | 7                               | 20                       | FDC: restricted to southerly aspects and to lower elevations of biogeoclimatic unit                                                                                                                                                                                   |
| 1051920                | ESSF        | mw              |                | 5              |                        | I                 | 1200               | 700             | 600                          | 2                             | 125                           | SX(1.0)<br>BL(.8)                           | BA(.6)                                                | 4                               | 20                       |                                                                                                                                                                                                                                                                       |
| 1051921                | ESSF        | mw              |                | 6              |                        | I                 | 1200               | 700             | 600                          | 2                             | 125                           | BL(.8)<br>SX(1.0)                           | BA(.6)                                                | 4                               | 20                       |                                                                                                                                                                                                                                                                       |
| 1051922                | ESSF        | mw              |                | 7              |                        | I                 | 1000               | 500             | 400                          | 2                             | 125                           | BL(.6) SX(.8)                               | BA(.6)<br>CW(.8)                                      | 4                               | 20                       | CW: restricted to lower elevations and fresh soil moisture regimes                                                                                                                                                                                                    |
| 1051923                | ESSF        | mw              |                | 8              |                        | I                 | 1000               | 500             | 400                          | 2                             | 125                           | BL(.6) SX(.8)                               | CW(.8)                                                | 4                               | 20                       | All species: on elevated microsites. CW: restricted to lower elevations and fresh soil moisture regimes.                                                                                                                                                              |
| 1051924                | IDF         | ww              |                | 1              |                        | I                 | 600                | 400             | 400                          | 2                             | 150                           | FDC(1.5)                                    | CW(1.5)<br>PLC(2.0)<br>PY(1.5)<br>Lw(1.5) EP<br>(3.0) | 4                               | 20                       | LW: on trial basis except in the NE portion of the Sea To Sky Natural Resource District Seed Planning Zone Lw1 where it can be planted operationally at a maximum of 200 stems/ha; PY: restricted to nutrient-medium sites, acceptable only in NE portion of district |
| 1051925                | IDF         | ww              |                | 2              |                        | I                 | 400                | 200             | 200                          | 2                             | 150                           | PLC(1.3)                                    | FDC(1.0)                                              | 3                               | 20                       |                                                                                                                                                                                                                                                                       |
| 1051926                | IDF         | ww              |                | 3              |                        | I                 | 600                | 400             | 400                          | 2                             | 150                           | FDC(1.5)                                    | PLC(2.0)<br>PY(1.5)                                   | 3                               | 20                       | PY: restricted to nutrient medium sites, only in NE portion of district                                                                                                                                                                                               |
| 1051927                | IDF         | ww              |                | 4              |                        | I                 | 600                | 400             | 400                          | 2                             | 150                           | FDC(1.5)<br>PY(1.5)                         | CW(1.5)<br>MB(3.0)<br>EP(3.0)                         | 4                               | 20                       | Consider using deciduous in root rot management areas; PY: acceptable only in NE portion of district                                                                                                                                                                  |

| STANDARDS<br>REGIME ID | BGC<br>ZONE | BGC SUB<br>ZONE | BGC<br>VARIANT | SITE<br>SERIES | STANDARDS<br>OBJECTIVE | STOCKING<br>LAYER | TARGET<br>STOCKING | MIN<br>STOCKING | MIN<br>PREFERRED<br>STOCKING | MIN<br>HORIZONTAL<br>DISTANCE | HEIGHT<br>RELATIVE<br>TO COMP | PREFERRED<br>SPECIES<br>(minimum<br>height) | ACCEPTABLE<br>SPECIES<br>(minimum<br>height)                     | REGEN<br>DELAY<br>OFFSET<br>YRS | FG LATE<br>OFFSET<br>YRS | Comments                                                                                                                                                                                                                                                                                  |
|------------------------|-------------|-----------------|----------------|----------------|------------------------|-------------------|--------------------|-----------------|------------------------------|-------------------------------|-------------------------------|---------------------------------------------|------------------------------------------------------------------|---------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1051928                | IDF         | ww              |                | 5              |                        | I                 | 1000               | 500             | 400                          | 2                             | 150                           | CW(2.0)<br>FDC(2.0)                         | HW(1.5)<br>MB(3.0)<br>EP(3.0)                                    | 4                               | 20                       | Consider using deciduous in root rot management areas                                                                                                                                                                                                                                     |
| 1051929                | IDF         | ww              |                | 6              |                        | I                 | 1000               | 500             | 400                          | 2                             | 150                           | FDC(2.0)<br>CW(2.0)                         | HW(1.5)<br>MB(3.0)<br>EP(3.0)                                    | 4                               | 20                       | Consider using deciduous in root rot management areas                                                                                                                                                                                                                                     |
| 1051930                | IDF         | ww              |                | 7              |                        | I                 | 1000               | 500             | 400                          | 2                             | 150                           | CW(1.5)                                     | PLC(2.0)<br>SX(1.0)<br>SS(1.0)                                   | 4                               | 20                       | CW: elevated microsites are preferred, PLC: restricted to nutrient-medium sites                                                                                                                                                                                                           |
| 1051931                | MH          | mm              | 1              | 1              |                        | I                 | 900                | 500             | 400                          | 2                             | 125                           | BA(.6)                                      | SX(1.0)<br>HW(1.0)<br>CW(1.0) FDC<br>(1.0)<br>HM(1.0)<br>YC(1.0) | 7                               | 20                       | SX: restricted to trial use; CW: Promote use in lower elevations of the variant; FDC: restricted to trial use only on south facing dry sites at lower elevations of the variant; HM: only in the upper portions of the variant. HW, YC: are restricted to lower elevations of the variant |
| 1051932                | MH          | mm              | 1              | 2              |                        | I                 | 800                | 400             | 400                          | 2                             | 125                           | HM(.8)<br>YC(.8)                            | BA(.6) SX(.8)<br>HW (.8)                                         | 4                               | 20                       | SX: minor component due to weevil risk, w/ climate change in mind restricted to lower elevation bands                                                                                                                                                                                     |
| 1051933                | MH          | mm              | 1              | 3, 4           |                        | I                 | 900                | 500             | 400                          | 2                             | 125                           | BA(.6)<br>HM(1.0)<br>YC(1.0)                | HW(1.0)                                                          | 4                               | 20                       | HW: restricted to lower elevations of biogeoclimatic unit,                                                                                                                                                                                                                                |
| 1051934                | MH          | mm              | 1              | 5              |                        | I                 | 900                | 500             | 400                          | 2                             | 125                           | BA(.6)<br>YC(1.0)                           | HM(1.0) HW<br>(1.0) SX (.8)                                      | 4                               | 20                       | SX: w/ climate change in mind restricted to lower elevation bands                                                                                                                                                                                                                         |
| 1051935                | MH          | mm              | 1              | 6              |                        | I                 | 800                | 400             | 400                          | 1.5                           | 125                           | HM(.8)<br>YC(.8)                            | BA(.6) HW<br>(1.0) SX (.8)                                       | 7                               | 20                       | SX: w/ climate change in mind restricted to lower elevation bands                                                                                                                                                                                                                         |
| 1051936                | MH          | mm              | 1              | 7              |                        | I                 | 900                | 500             | 400                          | 1.5                           | 125                           | BA(.6) YC(.8)                               | HM(.8) HW<br>(1.0) SX (.8)                                       | 4                               | 20                       | SX: w/ climate change in mind restricted to lower elevation bands                                                                                                                                                                                                                         |
| 1051937                | MH          | mm              | 1              | 8              |                        | I                 | 400                | 200             | 200                          | 1.5                           | 125                           | HM(.8)<br>YC(.8)                            | HW (1.0) SX<br>(.8)                                              | 4                               | 20                       | SX: w/ climate change in mind restricted to lower elevation bands                                                                                                                                                                                                                         |
| 1051938                | MH          | mm              | 1              | 9              |                        | I                 | 800                | 400             | 400                          | 1.5                           | 125                           | YC(.8)                                      | HM(.8)<br>HW(.8)<br>SX(0.8)                                      | 4                               | 20                       | SX: w/ climate change in mind restricted to lower elevation bands                                                                                                                                                                                                                         |
| 1051939                | MH          | mm              | 2              | 1              |                        | I                 | 900                | 500             | 400                          | 2                             | 125                           | BA(.6)<br>HM(1.0)<br>SX(1.0)<br>YC(1.0)     | HW(1.0)<br>BL(1.0)<br>FDC(1.0)<br>CW(1.0)                        | 4                               | 20                       | SX, YC: restricted to upper elevations of variant; FDC: can be used on a trial basis on lower elevations of the variant. HW, Cw: restricted to lower elevations of variant                                                                                                                |
| 1051940                | MH          | mm              | 2              | 2              |                        | I                 | 400                | 400             | 400                          | 2                             | 125                           | HM(.8)<br>SX(.8) YC(.8)                     | BA(.6) BL(.8)                                                    | 4                               | 20                       | BL: minor component                                                                                                                                                                                                                                                                       |
| 1051941                | MH          | mm              | 2              | 3              |                        | I                 | 900                | 500             | 400                          | 2                             | 125                           | BA(.6)<br>HM(1.0)<br>SX(1.0)<br>YC(1.0)     |                                                                  | 4                               | 20                       | BL: minor component                                                                                                                                                                                                                                                                       |
| 1051942                | MH          | mm              | 2              | 4              |                        | I                 | 900                | 500             | 400                          | 2                             | 125                           | BA(.6)<br>HM(1.0)<br>YC(1.0)                | HW(1.0)<br>BL(1.0)                                               | 7                               | 20                       |                                                                                                                                                                                                                                                                                           |

| STANDARDS<br>REGIME ID | BGC<br>ZONE | BGC SUB<br>ZONE | BGC<br>VARIANT | SITE<br>SERIES | STANDARDS<br>OBJECTIVE | STOCKING<br>LAYER | TARGET<br>STOCKING | MIN<br>STOCKING | MIN<br>PREFERRED<br>STOCKING | MIN<br>HORIZONTAL<br>DISTANCE | HEIGHT<br>RELATIVE<br>TO COMP | PREFERRED<br>SPECIES<br>(minimum<br>height) | ACCEPTABLE<br>SPECIES<br>(minimum<br>height) | REGEN<br>DELAY<br>OFFSET<br>YRS | FG LATE<br>OFFSET<br>YRS | Comments                                      |
|------------------------|-------------|-----------------|----------------|----------------|------------------------|-------------------|--------------------|-----------------|------------------------------|-------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------|--------------------------|-----------------------------------------------|
| 1051943                | MH          | mm              | 2              | 5              |                        | I                 | 900                | 500             | 400                          | 2                             | 125                           | BA(.6)<br>SX(1.0)<br>YC(1.0)                | HM(1.0)                                      | 4                               | 20                       |                                               |
| 1051944                | MH          | mm              | 2              | 6              |                        | I                 | 800                | 400             | 400                          | 1.5                           | 125                           | HM(.8)<br>YC(.8)<br>Ba(0.6)                 |                                              | 7                               | 20                       | HM, BA: elevated microsites are preferred     |
| 1051945                | MH          | mm              | 2              | 7              |                        | I                 | 900                | 500             | 400                          | 1.5                           | 125                           | BA(.6) YC(.8)<br>SX(.8)                     | HM(.8)                                       | 4                               | 20                       | BA, SX, HM: elevated microsites are preferred |
| 1051946                | MH          | mm              | 2              | 8              |                        | I                 | 400                | 200             | 200                          | 1.5                           | 125                           | HM(.8)<br>YC(.8)                            |                                              | 4                               | 20                       | HM, YC: elevated microsites are preferred     |
| 1051947                | MH          | mm              | 2              | 9              |                        | I                 | 800                | 400             | 400                          | 1.5                           | 125                           | HM(.8)<br>YC(.8)                            | SX(.8)                                       | 4                               | 20                       | HM, YC, SX: elevated microsites are preferred |



## 4. Appendices

**Table A1. Forest Development Units**

| Forest Development Unit's (FDU) | Covers the: |        |
|---------------------------------|-------------|--------|
|                                 | TSA         | TFL 38 |
| East Howe                       | Y           |        |
| Indian                          | Y           |        |
| Mamquam                         | Y           |        |
| Lower Squamish                  | Y           |        |
| Upper Squamish                  |             | Y      |
| Elaho                           |             | Y      |
| Whistler                        | Y           |        |
| Soo                             | Y           |        |
| Ryan                            | Y           |        |
| Meager                          | Y           |        |
| Upper Lillooet                  | Y           |        |
| Railroad                        | Y           |        |
| Birkenhead                      | Y           |        |
| Gates                           | Y           |        |
| Billygoat                       | Y           |        |
| Lizzie                          | Y           |        |
| Rogers                          | Y           |        |
| Tuwasus                         | Y           |        |
| Sloquet North                   | Y           |        |
| Sloquet High                    | Y           |        |
| Sloquet South                   | Y           |        |

**Table A2. Declared Areas**

At time of advertisement there are no declared areas to report.

**i. Table 5 Cutblocks:**

| FDU                    | Declaration Date | Cut Block # or TSL #                       | Area (ha) | Volume (m <sup>3</sup> ) | Silv System Harv Method                                 | Map #     | Comments                   |
|------------------------|------------------|--------------------------------------------|-----------|--------------------------|---------------------------------------------------------|-----------|----------------------------|
| Soo                    | 1.11.2022        | TA1393 (RF037, RF053, RF059, RF067, RUT67) | 20.8      | 17381                    | Ground / cable / Heli                                   | 92J026/35 | Lil'wat partnership volume |
| Birkenhead             | 1.11.2022        | TA1940 (PH103A, PH104)                     | 27.2      | 22702                    | Ground and cable harvesting system, clearcut with reten | 92J67     |                            |
| Mamquam                | 1.11.2022        | TA1519 (CN109)                             | 20.8      | 17427                    | Ground and cable harvesting system, clearcut with reten | 92G095    |                            |
| Meager / Soo           | 1.11.2022        | TA2047 (SF103, GR104)                      | 27.7      | 15000                    | Ground and cable harvesting system, clearcut with reten | 92J054    | Lil'wat partnership        |
| Sloquet North / Rogers | 1.11.2022        | TA2046 (TU406B, DC015)                     | 28.9      | 15000                    | Ground and cable harvesting system, clearcut with reten | 92J045/46 | Tsetspa7 partnership       |
| Mamquam                | 1.11.2022        | TA2015 (CK500, MA207, MA257)               | 55.9      | 27892                    | Ground and cable harvesting system, clearcut with reten | 92G066/75 |                            |
| Mamquam                | 1.11.2022        | TA1273 (CU102, CU111, CU112)               | 39.4      | 27023                    | Ground and cable harvesting system, clearcut with reten | 92G085    |                            |
| Lower Squamish         | 1.11.2022        | TA2312 (WF004, WF005)                      |           |                          | Ground and cable harvesting system, clearcut with reten | 92G117    |                            |

**ii. Table 6 Roads:**

| FDU | Declaration Date | Road Identifier | Length (km) | Status | Map # | Comments |
|-----|------------------|-----------------|-------------|--------|-------|----------|
|     |                  |                 |             |        |       |          |
|     |                  |                 |             |        |       |          |
|     |                  |                 |             |        |       |          |
|     |                  |                 |             |        |       |          |

**Table A3. Road permits in effect**

Road permits in effect at time of submission

| Road Permit # | TSL # | Mapsheet # | Comments |
|---------------|-------|------------|----------|
|               |       |            |          |
|               |       |            |          |
|               |       |            |          |
|               |       |            |          |

**Table A4. Timber Sale Licences in effect**

Timber Sale Licences in effect at time of submission

| TSL #  | Area              | Mapsheet    | Comments             |
|--------|-------------------|-------------|----------------------|
| TA1393 | Rutherford        | 92J026/35   | Lil'wat partnership  |
| TA1940 | Phelix Creek      | 92J67       |                      |
| TA1519 | Conroy            | 92G095      |                      |
| TA2047 | Salmon Slough     | 92J054      | Lil'wat partnership  |
| TA2046 | Sloquet / Douglas | 92J045/46   | Tsetsa7 partnership  |
| TA2015 | Mamquam Cheekye   | 92G066/75   |                      |
| TA1273 | Swift Creek       | 92G085      |                      |
| TA1923 | Squamish Valley   | 92G094/J013 | Squamish partnership |
|        |                   |             |                      |
|        |                   |             |                      |
|        |                   |             |                      |
|        |                   |             |                      |
|        |                   |             |                      |
|        |                   |             |                      |

**Table A5. FSP Amendment Log**

| Amendment Number | Amendment Date | Date approved by the DDM (if req'd) | FDU (if applicable) | Amendment Details |
|------------------|----------------|-------------------------------------|---------------------|-------------------|
|                  |                |                                     |                     |                   |
|                  |                |                                     |                     |                   |
|                  |                |                                     |                     |                   |
|                  |                |                                     |                     |                   |
|                  |                |                                     |                     |                   |
|                  |                |                                     |                     |                   |
|                  |                |                                     |                     |                   |
|                  |                |                                     |                     |                   |
|                  |                |                                     |                     |                   |

# Appendix A

## Amendments to the spatial data for western larch seed planning zones Lw1, Lw2 and Lw3 – May 2014

### Assisted Range and Population Expansion of Western Larch for Use as a Climate Change Adaptation Strategy in British Columbia

On May 26, 2014, Tree Improvement Branch amended the spatial dataset for western larch (*Larix occidentalis*) areas of use for seed planning zones Lw1, Lw2 and Lw3. The changes reflect "best available scientific information" and can be implemented immediately since the spatial data (geometry and map products) of tested parent tree areas of use do not require a formal amendment to the *Chief Forester's Standards for Seed Use*. Notification under the Forest Planning and Practices Regulation, and Woodlot Planning and Practices Regulation of the Forest and Range Practices Act is also not required in this instance.

This amendment follows a review of the June 2010 interim measures that established western larch (climate change) seed planning zones, Lw1, Lw2 and Lw3. The purpose of the review was to evaluate the effectiveness of the interim measures and to investigate options for improvement.

This amendment continues to align with the original goal of the interim measures: the BC Climate Action Secretariat's vision to "make adaptation apart of the BC Government's business, ensuring that climate change impacts are considered in planning and decision-making across government". The scientific information contributing to these changes is based upon the research and analysis conducted by Dr. Gerald E. Rehfeldt (USDA Forest Service, retired) and Dr. Barry Jaquish (MFLNRO, Tree Improvement Branch), as reported in their publication, "Ecological impacts and management strategies for western larch in the face of climate change" (March, 2010, Mitigation and Adaptation Strategies for Global Change; ISSN 1381-2386, Volume 15, Number 3). For the review, Tree Improvement Branch staff solicited operational feedback through client and stakeholder consultation.

The amendment includes the following changes:

- Combining seed planning zones Lw1 and Lw3 as they are represented by one seed orchard population,
- Expanding the seed planning zone boundaries of Lw1 and Lw2, and
- Smoothing the raster data of seed planning zone boundaries of Lw 1 and Lw2 (to remove the 'blocky' pixel-based shapes).

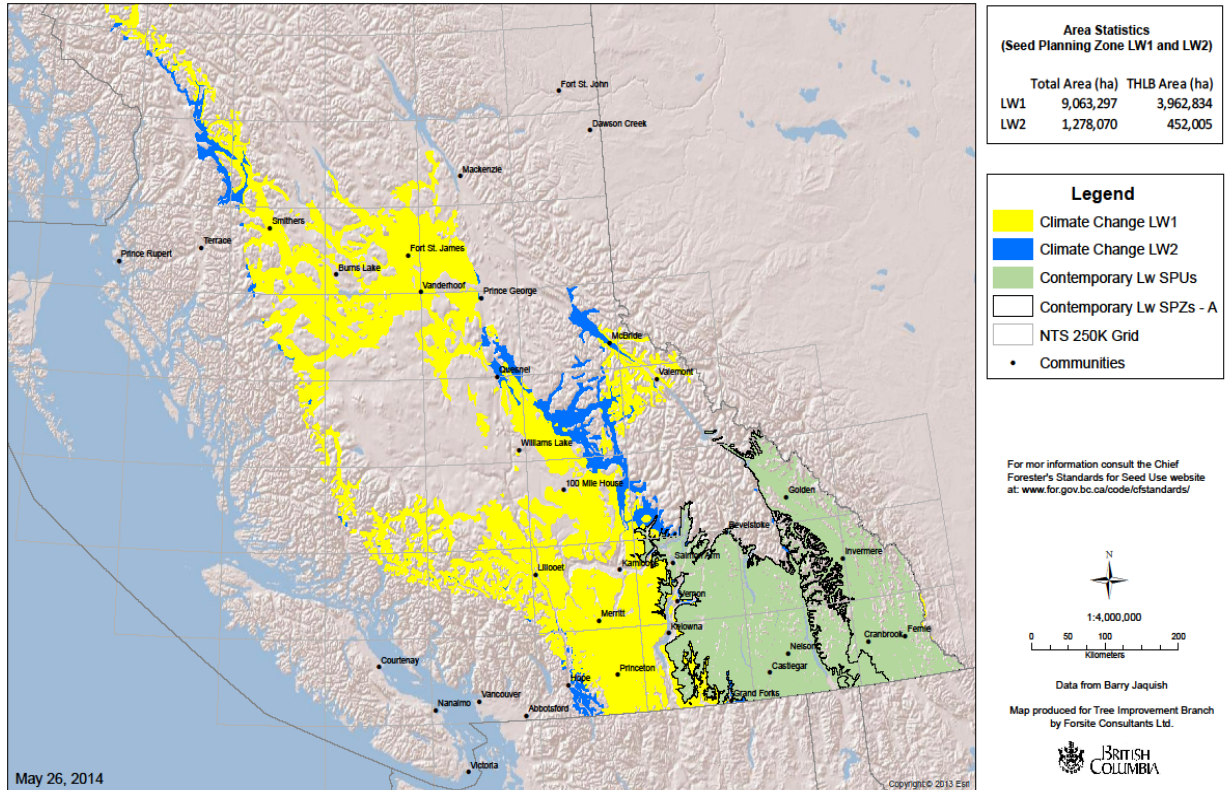
This amendment will continue to serve as "interim measures" for western larch until replacement with the new Climate-Based Seed Transfer system. Spatial data (i.e. shape files and geodatabase) and a provincial scale PDF map are available on Tree Improvement Branch's FTP site at [http://www.for.gov.bc.ca/ftp/HTI/external/publish/Western\\_Larch\\_Interim\\_Measures/](http://www.for.gov.bc.ca/ftp/HTI/external/publish/Western_Larch_Interim_Measures/).

Questions regarding this amendment can be directed to staff in Tree Improvement Branch, Ministry of Forests, Lands and Natural Resource Operations:

Lee Charleson, MBA, RPF  
Seed Policy Officer  
Phone: (250) 387-4839  
E-mail: [Lee.Charleson@gov.bc.ca](mailto:Lee.Charleson@gov.bc.ca)

Susan Zedel P.Ag.  
Seed Resource Specialist  
Phone: (250) 356-1598  
E-mail: [Susan.Zedel@gov.bc.ca](mailto:Susan.Zedel@gov.bc.ca)

# Range and Population Expansion of Western Larch (2030) Climate Change - Seed Planning Zone LW1 and LW2 (2014)



# Appendix B

## Legal Objectives - Birkenhead FDU Birkenhead LU – Legal Order and Objectives (April 13, 2005)

### Results or strategies for Objective 1

1. Maintain or recruit old growth forests in established old growth management areas (OGMAs), as shown on the attached Birkenhead Landscape Unit map dated March 21, 2004 subject to timber harvesting and road construction in accordance with section 2, 3 and 4 below.
2.
  - (1) Where sufficient suitable replacement forest is available in the variants listed below, timber harvesting or road construction (unrelated to ecosystem restoration activities) may be undertaken in OGMAs that are >10 ha in size for operational reasons up to a cumulative maximum of:
    - i) 15 ha in variant CWHds1,
    - ii) 30 ha in variant CWHms1,
    - iii) 5 ha in variant IDFww,
    - iv) 40 ha in subzone ESSFmw, and
    - v) 5 ha in variant MHmm2provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA.
  - (2) The criteria in 2 (1) is to apply to individual OGMAs within the categories below and must ensure that OGMA ecological attributes and spatial distribution are maintained or improved:
    - i) OGMAs >10 ha to <50 ha in size where the proposed activity affects the OGMA by <5 ha,
    - ii) OGMAs ≥50 ha to <100 ha in size where the proposed activity affects the OGMA by <10ha,
    - iii) OGMAs ≥100 ha in size where the proposed activity affects the OGMA by <10%.
    - iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate and rehabilitate a temporary road or bridge site within four years after construction.
  - (3) Where OGMA boundary adjustments and replacement areas are required under section 2 (1) and (2) they must be documented, mapped and submitted to the satisfaction of the Delegated Decision Maker (DDM) at the end of each calendar year for his/her approval.
  - (4) The provisions in section 2 (1) and (2) do not apply to the following OGMAs #8, 14, 24, 52, 70, 74, 95, 101.
3. Permissible Activities:
  - (1) Timber harvest may occur to prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. Salvage within OGMAs will be done in a manner that retains as many old growth forest attributes as possible.
  - (2) Timber harvesting for ecosystem restoration purposes within fire dominated areas in up to 25% of OGMAs in the IDFww subzone and 25% of OGMAs in the CWHds1 variant. Proposed treatments must adhere to the Strategies and Table B below and must be incorporated into an approved operational plan (FDP or equivalent) that specifically addresses ecosystem restoration goals. Ecosystem restoration activities must be documented, mapped, and submitted to the satisfaction of the DDM at the end of each calendar year for his/her approval.
  - (3) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.

- (4) Intrusions, other than those specified, that affect an OGMA by less than 0.5 hectare in total.
- (5) Where OGMA replacement forest is required as a result of activities under 3 (1) or (3), it must be of equivalent or better quality and quantity and be identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved. OGMA replacement areas must be documented, mapped and submitted to the satisfaction of the DDM at the end of each calendar year for his/her approval.

#### 4. Permissible Activities for Safety Purposes:

- (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.
- (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.

### Results or strategies for Objective 2

Maintain stand level structural diversity by retaining **wildlife tree retention area (WTR)**. Cutblocks for which harvesting has been completed by each licensee by tenure will retain adequate amounts of wildlife tree retention area to ensure that over each 3-year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:

- (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
- (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention, except in the ESSFmw subzone.
- (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
- (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target.
- (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
- (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
- (7) Where differences exist between mapped and actual BEC subzones, subzones will be confirmed by site plan information.

**Table A. Wildlife Tree Retention by BEC subzone in the Birkenhead Landscape Unit**

| BEC Subzone                                         | % Wildlife Tree Retention |
|-----------------------------------------------------|---------------------------|
| CWH ds (Coastal Western Hemlock, dry subarctic)     | 4                         |
| CWH ms (Coastal Western Hemlock, moist subarctic)   | 3                         |
| ESSF mw (Engelmann Spruce Subalpine Fir moist warm) | 0                         |
| IDF ww (Interior Douglas Fir, wet warm)             | 5                         |
| MH mm (Mountain Hemlock, moist maritime)            | 2                         |

#### Ecosystem Restoration Strategies:

The purpose of restoration activities in OGMA's, within the limits provided, is to improve or maximize biodiversity values and/or ecosystem health values in areas where there is a high to extreme risk of natural disturbance. Where ecosystem restoration is proposed and carried out, it must address the following strategies:

1. Where ecosystem restoration provisions within OGMA are proposed in an FSP, the FSP must outline the highest risk/highest priority transition forests requiring treatment. Ecosystem restoration treatment will be permitted in up to 25% of the OGMA target area, within specified site series in the IDFww and CWHd1 variants (see Table B).
2. Restoration activities within OGMA must address how old growth structure will be developed and/or maintained through management intervention over time. Accepted treatments include: partial cut timber harvesting, spacing, thinning and prescribed burning. Note: Open forest (<76 stems/ha in IDF, and <170 stems/ha in CWH) or grassland communities will not meet OGMA suitability criteria. Treatments to below these thresholds can occur outside OGMA; they can and do contribute to natural ecosystem diversity but aren't considered a forested ecosystem for OGMA purposes.
3. Where other resource objectives have been set (e.g. Ungulate Winter Range, Spotted Owl SRMZ, Identified Wildlife – Wildlife Habitat Areas), ecosystem restoration will only be permitted where compatible with those objectives. In addition, restoration plans and treatments must be compatible with and incorporate the habitat requirements of other red and blue-listed species or regionally important species.
4. Restoration prescriptions will vary from site to site, but will maintain the oldest and/or largest trees for the site and high value wildlife trees (any high value wildlife trees that are determined to be danger trees should be left in no work zone areas). Partial harvest will be limited to removal of excess immature and understory trees or any larger trees in excess of the target stocking standard specified in Table B.
5. Partial-cut harvesting will be subject to current timber harvesting and silviculture practices, except normal stocking standards and green-up height obligations will not apply (see Table B for modified stocking standards).
6. BEC subzones, variants and site series for purposes of Table B will be confirmed by site plan or on the ground information.
7. Achieving restoration targets will be a direct function of budget and staffing resources available to undertake treatment activities.
8. Once forest stands within OGMA have received initial restoration treatment, they should become components of a long-term cycle of spacing and/or prescribed burning and future partial-cut harvesting that will maximize biodiversity value and ecosystem health. All treatments subsequent to meeting modified stocking standards would be considered incremental, and would not be considered a licensee responsibility unless by mutual agreement. Special and non-governmental funds can potentially be accessed to finance these incremental treatments.
9. All roads and trails required for restoration treatment must be temporary, and rehabilitated promptly (i.e. made non-drivable) after completion of harvest operations (except roads required for permanent access beyond the OGMA).
10. In most cases a partial-cut harvest can meet target stocking initially, but unless further treatments are undertaken, stocking targets will be exceeded again after a short time. Subsequent (incremental) prescribed burns will normally be required to reduce numbers of new tree seedlings or rejuvenate the understory and recycle nutrients. If burning is prescribed it should normally follow a partial-cut treatment so that initial fuel loading is reduced. Partial-cut harvest slash volumes and distribution should be managed to facilitate subsequent low soil temperature, surface burns. Measures must be taken to ensure post burn survival of appropriate numbers of tree recruits.
11. Restoration targets set in Table B may be modified over time based on experience, long term monitoring and better scientific knowledge (Adaptive Management).

**Table B. Ecosystem Restoration Targets for the Birkenhead Landscape Unit**

| BEC Unit | Site series<br>Still need<br>To confirm<br>site series | Target Stocking<br>Standard (stems/ha)                                                   | Minimum/ Maximum<br>Stocking Standard<br>(stems/ha) | Desired<br>Structures Post<br>Treatment* | Primary Leave Spp.<br>(Secondary/Minor<br>Leave Species)**                                      | General Mgmt<br>System Proposed                                                                                          |
|----------|--------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| IDF ww   | 02, 03                                                 | - 200 of the oldest and<br>largest stems.<br>- up to 1/3 clustered<br>- 2/3 well spaced. | 76 – 250                                            | WT, LT, CL, UV                           | 02-Pl (/Fd)<br>03-Fd (Pl Py/)                                                                   | Periodic partial-<br>harvesting,<br>prescribed burning,<br>spacing<br>and/or thinning to<br>maintain<br>open forest      |
| IDFww    | 01, 04, 05                                             | - 250 of the oldest and<br>largest stems.<br>- up to 1/3 clustered<br>- 2/3 well spaced. | 170 – 400                                           | WT, LT, CL, UV                           | 01-Fd (Pl Py / Cw)<br>04-Fd (Py / Cw)<br>05-CwFd (/Ss)                                          | Periodic partial-<br>harvesting,<br>prescribed burning,<br>spacing<br>and/or thinning to<br>maintain<br>forest condition |
| CWHds1   | 01, 02, 03, 04                                         | - 250 of the oldest and<br>largest stems.<br>- up to 1/3 clustered<br>- 2/3 well spaced. | 170 – 400                                           | WT, LT, CL, UV                           | 01-Fd (/Cw Lw Pw)<br>02-Pl (Fd/)<br>03-Fd (Pl Py / Cw)<br>04-Fd (/Cw Lw Pw)<br>05-Fd (Se/Cw Pw) | Periodic partial-<br>harvesting,<br>prescribed burning,<br>spacing<br>and/or thinning to<br>maintain<br>forest condition |

\* WT = where present and safe, retain a minimum of 5 moderate or high value wildlife trees per hectare; and 5 dying trees >50 cm dbh per hectare (e.g. by no work zone).

LT = large trees for the site, including veteran trees.

CL = approximately 1/3 of leave trees should be in clusters, not just uniform spacing.

UV = the diversity of natural understory vegetation (e.g. shrubs) should be retained, herbicide treatment should not occur.

\*\* leave tree species are taken from the Ministry of Forests Land Management Handbook Number 28.

# **Legal Objectives - East Howe FDU**

## **East Howe LU: Legal Order and Objectives (Aug. 1, 2003)**

### **Results or strategies for Objective 1**

1. Maintain or recruit old growth forest attributes in designated old growth management areas (OGMAs), as shown on the attached East Howe Landscape Unit map dated June 5, 2003. Timber harvesting, including salvage, single tree selection, topping for cone harvesting, and commercial gathering of botanical forest products, will not be permitted within OGMAs except as specified in section 2 and 3 below.
2. The Delegated Decision Maker (DDM) may allow operations to occur within an OGMA for reasons such as but not limited to the following:
  - (1) To prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. This will be done in a manner that retains as many old growth forest attributes as possible.
  - (2) Construction of roads and yarding corridors if no other practicable option exists.
3. Exemptions:
  - (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.
  - (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.
  - (3) OGMAs that are >10 ha in size may be modified for operational reasons up to a cumulative maximum of :
    - a) 10 ha in variant CWHdm,
    - b) 35 ha in variant CWHvm2,
    - c) 55 ha in variant MHmm1,provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved, in one of the following categories:
    - i) OGMAs >10 ha to <50 ha in size where the proposed development affects the OGMA by <5 ha,
    - ii) OGMAs ≥50 ha to <100 ha in size where the proposed development affects the OGMA by <10ha,
    - iii) OGMAs ≥100 ha in size where the proposed development affects the OGMA by <10%.
    - iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate or rehabilitate a temporary road or bridge site within four years after construction.
    - v) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.
  - (4) Intrusions, other than those specified in (3) above, that affect an OGMA by less than 0.5 hectare in total.
4. Exemption 3(3) above does not apply to the following OGMAs: #6, 7, and 35.

## Results or strategies for Objective 2

Maintain stand level structural diversity by retaining wildlife tree retention area (WTR). Cutblocks for which harvesting has been completed by each licensee by tenure will maintain adequate amounts of wildlife tree retention area to ensure that over each 2 year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:

- (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
- (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention.
- (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
- (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target.
- (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
- (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
- (7) BEC subzones will be determined by site plan information.

**Table A. Wildlife Tree Retention by BEC Subzone in the East Howe Landscape Unit**

| <b>BEC Subzone</b>                                  | <b>Total Wildlife Tree Retention (%)</b> | <b>Wildlife Tree Retention (%)</b> |
|-----------------------------------------------------|------------------------------------------|------------------------------------|
| CWH dm (Coastal Western Hemlock, dry maritime)      |                                          | 5                                  |
| CWH vm (Coastal Western Hemlock, very wet maritime) |                                          | 10                                 |
| MH mm (Mountain Hemlock, moist maritime)            |                                          | 7                                  |

# Gates LU - Legal Order and Objectives (April 13, 2005)

## Legal Objectives - Gates FDU

### Results or strategies for Objective 1

1. Maintain or recruit old growth forests in established old growth management areas (OGMAs), as shown on the attached Gates Landscape Unit map dated March 21, 2004 subject to timber harvesting and road construction in accordance with section 2, 3 and 4 below.

2. (1) Where sufficient suitable replacement forest is available in the variants listed below, timber harvesting or road construction (unrelated to ecosystem restoration activities) may be undertaken in OGMAs that are >10 ha in size for operational reasons up to a cumulative maximum of:

- i) 15 ha in variant CWHds1,
- ii) 15 ha in variant CWHms1,
- iii) 15 ha in subzone ESSFmw, and
- iv) 30 ha in variant MHmm2

provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA.

(2) The criteria in 2 (1) is to apply to individual OGMAs within the categories below and must ensure that OGMA ecological attributes and spatial distribution are maintained or improved:

- i) OGMAs >10 ha to <50 ha in size where the proposed activity affects the OGMA by <5 ha,
- ii) OGMAs ≥50 ha to <100 ha in size where the proposed activity affects the OGMA by <10ha,
- iii) OGMAs ≥100 ha in size where the proposed activity affects the OGMA by <10%.
- iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate and rehabilitate a temporary road or bridge site within four years after construction.

(3) Where OGMA boundary adjustments and replacement areas are required under section 2 (1) and (2) they must be documented, mapped and submitted to the satisfaction of the Delegated Decision Maker (DDM) at the end of each calendar year for his/her approval.

(4) The provisions in section 2 (1) and (2) do not apply to the following OGMAs #9, 33, 35, 45, 57, 61.

### 3. Permissible Activities:

(1) Timber harvest may occur to prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. Salvage within OGMAs will be done in a manner that retains as many old growth forest attributes as possible.

(2) Timber harvesting for ecosystem restoration purposes within fire dominated areas in up to 25% of OGMAs in the IDFW subzone and 25% of OGMAs in the CWHds1. Proposed treatments must adhere to the Strategies and Table B below, and must be incorporated into an approved operational plan (FDP or equivalent) that specifically addresses ecosystem restoration goals. Ecosystem restoration activities must be documented, mapped, and submitted to the satisfaction of the DDM at the end of each calendar year for his/her approval.

(3) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.

(4) Intrusions, other than those specified, that affect an OGMA by less than 0.5 hectare in total.

- (5) Where OGMA replacement forest is required as a result of activities under 3 (1) or (3), it must be of equivalent or better quality and quantity and be identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved. OGMA replacement areas must be documented, mapped and submitted to the satisfaction of the DDM at the end of each calendar year for his/her approval.

#### 4. Permissible Activities for Safety Purposes:

- (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.
- (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.

### Results or strategies for Objective 2

Maintain stand level structural diversity by retaining wildlife tree retention area (WTR). Cutblocks for which harvesting has been completed by each licensee by tenure will retain adequate amounts of wildlife tree retention area to ensure that over each 3 year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:

- (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
- (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention, except in the ESSFmw and MHmm subzone.
- (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
- (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target.
- (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
- (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
- (7) Where differences exist between mapped and actual BEC subzones, subzones will be confirmed by site plan information.

**Table A. Wildlife Tree Retention by BEC subzone in the Gates Landscape Unit**

| BEC Subzone                                         | % Wildlife Tree Retention |
|-----------------------------------------------------|---------------------------|
| CWH ds (Coastal Western Hemlock, dry subaritime)    | 6                         |
| CWH ms (Coastal Western Hemlock, moist subaritime)  | 6                         |
| ESSF mw (Engelmann Spruce Subalpine Fir moist warm) | 1                         |
| IDF ww (Interior Douglas Fir, wet warm)             | 8                         |
| MH mm (mountain Hemlock, moist maritime)            | 0                         |

## Ecosystem Restoration Strategies:

The purpose of restoration activities in OGMAs, within the limits provided, is to improve or maximize biodiversity values and/or ecosystem health values in areas where there is a high to extreme risk of frequent natural disturbance. Where ecosystem restoration is proposed and carried out, it must address the following strategies:

1. Where ecosystem restoration provisions within OGMAs are proposed in an FSP, the FSP must outline the highest risk/highest priority transition forests requiring treatment. Ecosystem restoration treatment will be permitted in up to 25% of the OGMA target area, within specified site series in the IDFW and CWHd1 variants (see Table B).
2. Restoration activities within OGMAs must address how old growth structure will be developed and/or maintained through management intervention over time. Accepted treatments include: partial cut timber harvesting, spacing, thinning and prescribed burning. Note: Open forest (<76 stems/ha in IDF, and <170 stems/ha in CWH) or grassland communities will not meet OGMA suitability criteria. Treatments to below these thresholds can occur outside OGMAs; they can and do contribute to natural ecosystem diversity but aren't considered a forested ecosystem for OGMA purposes.
3. Where other resource objectives have been set (e.g. Ungulate Winter Range, Spotted Owl SRMZ, Identified Wildlife – Wildlife Habitat Areas), ecosystem restoration will only be permitted where compatible with those objectives. In addition, restoration plans and treatments must be compatible with and incorporate the habitat requirements of other red and blue-listed species or regionally important species.
4. Restoration prescriptions will vary from site to site, but will maintain the oldest and/or largest trees for the site and high value wildlife trees (any high value wildlife trees that are determined to be danger trees should be left in no work zone areas). Partial harvest will be limited to removal of excess immature and understory trees or any larger trees in excess of the target stocking standard specified in Table B.
5. Partial-cut harvesting will be subject to current timber harvesting and Silviculture practices, except normal stocking standards and green-up height obligations will not apply (see Table B for modified stocking standards).
6. BEC subzones, variants and site series for purposes of Table B will be confirmed by site plan or on the ground information.
7. Achieving restoration targets will be a direct function of budget and staffing resources available to undertake treatment activities.
8. Once forest stands within OGMAs have received initial restoration treatment, they should become components of a long-term cycle of spacing and/or prescribed burning and future partial-cut harvesting that will maximize biodiversity value and ecosystem health. All treatments subsequent to meeting modified stocking standards would be considered incremental and would not be considered a licensee responsibility unless by mutual agreement. Special and non-governmental funds can potentially be accessed to finance these incremental treatments.
9. All roads and trails required for restoration treatment must be temporary, and rehabilitated promptly (i.e. made non-drivable) after completion of harvest operations (except roads required for permanent access beyond the OGMA).
10. In most cases a partial-cut harvest can meet target stocking initially, but unless further treatments are undertaken, stocking targets will be exceeded again after a short time. Subsequent (incremental) prescribed burns will normally be required to reduce numbers of new tree seedlings or rejuvenate the understory and recycle nutrients. If burning is prescribed it should normally follow a partial-cut treatment so that initial fuel loading is reduced. Partial-cut harvest slash volumes and distribution should be managed to facilitate subsequent low soil temperature, surface burns. Measures must be taken to ensure post burn survival of appropriate numbers of tree recruits.
11. Restoration targets set in Table B may be modified over time based on experience, long term monitoring and better scientific knowledge (Adaptive Management).

**Table B. Ecosystem Restoration Targets for the Gates Landscape Unit**

| BEC Unit | Site Series        | Target Stocking Standard (stems/ha)                                                   | Minimum – Maximum Stocking Standard (stems/ha) | Desired Structures Post Treatment* | Primary Leave Spp. (Secondary/Minor Leave Species)**                                            | General Mgmt System Proposed                                                                          |
|----------|--------------------|---------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| IDF ww   | 02, 03             | - 200 of the oldest and largest stems.<br>- up to 1/3 clustered<br>- 2/3 well spaced. | 76 – 250                                       | WT, LT, CL, UV                     | 02-Pl (/Fd)<br>03-Fd (Pl Py/)                                                                   | Periodic partial-harvesting, prescribed burning, spacing and/or thinning to maintain open forest      |
| IDFww    | 01, 04, 05         | - 250 of the oldest and largest stems.<br>- up to 1/3 clustered<br>- 2/3 well spaced. | 170 – 400                                      | WT, LT, CL, UV                     | 01-Fd (Pl Py / Cw)<br>04-Fd (Py / Cw)<br>05-CwFd (/Ss)                                          | Periodic partial-harvesting, prescribed burning, spacing and/or thinning to maintain forest condition |
| CWHdsl   | 01, 02, 03, 04, 05 | - 250 of the oldest and largest stems.<br>- up to 1/3 clustered<br>- 2/3 well spaced. | 170 – 400                                      | WT, LT, CL, UV                     | 01-Fd (/Cw Lw Pw)<br>02-Pl (Fd/)<br>03-Fd (Pl Py / Cw)<br>04-Fd (/Cw Lw Pw)<br>05-Fd (Se/Cw Pw) | Periodic partial-harvesting, prescribed burning, spacing and/or thinning to maintain forest condition |

\* WT = where present and safe, retain a minimum of 5 moderate or high value wildlife trees per hectare; and 5 dying trees >50 cm dbh per hectare (e.g. by no work zone).

LT = large trees for the site, including veteran trees.

CL = approximately 1/3 of leave trees should be in clusters, not just uniform spacing.

UV = the diversity of natural understory vegetation (e.g. shrubs) should be retained, herbicide treatment should not occur.

\*\* leave tree species are taken from the Ministry of Forests Land Management Handbook Number 28.

# Indian LU: Legal Order and Objectives (Aug. 1, 2003)

## Legal Objectives - Indian FDU

### Results or strategies for Objective 1

1. Maintain or recruit old growth forest attributes in designated old growth management areas (OGMAs), as shown on the attached Indian Landscape Unit map dated August 6, 2002. Timber harvesting, including salvage, single tree selection, topping for cone harvesting, and commercial gathering of botanical forest products, will not be permitted within OGMAs except as specified in section 2 and 3 below.
2. The Delegated Decision Maker (DDM) may allow operations to occur within an OGMA for reasons such as but not limited to the following:
  - (1) To prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. This will be done in a manner that retains as many old growth forest attributes as possible.
  - (2) Construction of roads and yarding corridors if no other practicable option exists.
3. Exemptions:
  - (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.
  - (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.
  - (3) OGMAs that are >10 ha in size may be modified for operational reasons up to a cumulative maximum of :
    - a) 15 ha in variant CWHvm1,
    - b) 45 ha in variant CWHvm2, and
    - c) 30 ha in MHmm1provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority,
    - 1) immediately adjacent to the existing OGMA, or
    - 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved, in one of the following categories:
      - i) OGMAs >10 ha to <50 ha in size where the proposed development affects the OGMA by <5 ha,
      - ii) OGMAs ≥50 ha to <100 ha in size where the proposed development affects the OGMA by <10ha,
      - iii) OGMAs ≥100 ha in size where the proposed development affects the OGMA by <10%.
    - iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate or rehabilitate a temporary road or bridge site within four years after construction.
    - v) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.
  - (4) Intrusions, other than those specified in (3) above, that affect an OGMA by less than 0.5 hectare in total.
4. Exemption 3 (3) above does not apply to the following OGMAs: #34, 49

## Results or Strategies for Objective 2

Maintain stand level structural diversity by retaining wildlife tree retention area (WTR).

Cutblocks for which harvesting has been completed by each licensee by tenure will maintain adequate amounts of wildlife tree retention area to ensure that over each 2-year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:

- (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
- (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention.
- (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
- (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target.
- (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
- (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
- (7) BEC subzones will be determined by site plan information.

**Table A. Wildlife Tree Retention by BEC Subzone in the Indian Landscape Unit**

| <b>BEC Subzone</b>                                  | <b>Wildlife Tree Retention %</b> |
|-----------------------------------------------------|----------------------------------|
| CWH vm (Coastal Western Hemlock, very wet maritime) | 11                               |
| MH mm (Mountain Hemlock, moist maritime)            | 5                                |

# **Lower Squamish LU: Legal Order and Objectives (Aug. 1, 2003)**

## **Legal Objectives - Lower Squamish FDU**

### **Results or Strategies for Objective 1**

1. Maintain or recruit old growth forest attributes in designated old growth management areas (OGMAs), as shown on the attached Lower Squamish Landscape Unit map dated August 6, 2002. Timber harvesting, including salvage, single tree selection, topping for cone harvesting, and commercial gathering of botanical forest products, will not be permitted within OGMAs except as specified in section 2 and 3 below.
2. The Delegated Decision Maker (DDM) may allow operations to occur within an OGMA for reasons such as but not limited to the following:
  - (1) To prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. This will be done in a manner that retains as many old growth forest attributes as possible.
  - (2) Construction of roads and yarding corridors if no other practicable option exists.
3. Exemptions:
  - (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.
  - (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.
  - (3) OGMAs that are >10 ha in size may be modified for operational reasons up to a cumulative maximum of :
    - a) 10 ha in variant CWHdm,
    - b) 5 ha in variant CWHms1,
    - c) 10 ha in variant CWHvm1,
    - d) 20 ha in variant CWHvm2, and
    - e) 15 ha in MHmm1provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved, in one of the following categories:
    - i) OGMAs >10 ha to <50 ha in size where the proposed development affects the OGMA by <5 ha,
    - ii) OGMAs ≥50 ha to <100 ha in size where the proposed development affects the OGMA by <10ha,
    - iii) OGMAs ≥100 ha in size where the proposed development affects the OGMA by <10%.
    - iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate or rehabilitate a temporary road or bridge site within four years after construction.
    - v) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.
  - (4) Intrusions, other than those specified in (3) above, that affect an OGMA by less than 0.5 hectare in total.
4. Exemption 3(3) above does not apply to the following OGMAs: #52, 60.

## Results or Strategies for Objective 2

Maintain stand level structural diversity by retaining wildlife tree retention area (WTR). Cutblocks for which harvesting has been completed by each licensee by tenure will maintain adequate amounts of wildlife tree retention area to ensure that over each 2-year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:

- (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
- (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention, except in the MHmm subzone.
- (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
- (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target.
- (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
- (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
- (7) BEC subzones will be determined by site plan information.

**Table A. Wildlife Tree Retention by BEC Subzone in the Lower Squamish Landscape Unit**

| <b>BEC Subzone</b>                                  | <b>Wildlife Tree Retention %</b> |
|-----------------------------------------------------|----------------------------------|
| CWH dm (Coastal Western Hemlock, dry maritime)      | 8                                |
| CWH ds (Coastal Western Hemlock, dry subarctic)     | 6                                |
| CWH ms (Coastal Western Hemlock, moist subarctic)   | 8                                |
| CWH vm (Coastal Western Hemlock, very wet maritime) | 6                                |
| MH mm (Mountain Hemlock, moist maritime)            | 0                                |

# Rogers LU: Legal Order and Objectives (March 1, 2004)

## Legal Objectives - Rogers FDU

### Results or Strategies for Objective 1

1. Maintain or recruit old growth forests in established old growth management areas (OGMAs), as shown on the attached Rogers Landscape Unit map dated March 10, 2004 subject to timber harvesting and road construction in accordance with section 2, 3 and 4 below.
  2. (1) Where sufficient suitable replacement forest is available in the variants listed below, timber harvesting or road construction may be undertaken in OGMAs that are >10 ha in size for operational reasons up to a cumulative maximum of:
    - i) 30 ha in variant CWHds1,
    - ii) 60 ha in variant CWHms1,
    - iii) 10 ha in variant IDFww, and
    - iv) 60 ha in variant MHmm2,provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA.
  - (2) The criteria in 2 (1) is to apply to individual OGMAs within the categories below and must ensure that OGMA ecological attributes and spatial distribution are maintained or improved:
    - i) OGMAs >10 ha to <50 ha in size where the proposed activity affects the OGMA by <5ha,
    - ii) OGMAs ≥50 ha to <100 ha in size where the proposed activity affects the OGMA by <10ha,
    - iii) OGMAs ≥100 ha in size where the proposed activity affects the OGMA by <10%.
    - iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate and rehabilitate a temporary road or bridge site within four years after construction.
  - (3) Where OGMA boundary adjustments and replacement areas are required under section 2 (1) and (2) they must be documented, mapped and submitted to the satisfaction of the Delegated Decision Maker (DDM) at the end of each calendar year for his/her approval.
  - (4) The provisions in section 2 (1) and (2) do not apply to the following OGMAs #2, 3, 4, 7, 48, 54, 55, 78, 87, 89, 92, 94, 118, 143, 172, 186, 196.
3. Permissible Activities:
    - (1) Timber harvest may occur to prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. Salvage within OGMAs will be done in a manner that retains as many old growth forest attributes as possible.
    - (2) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.
    - (3) Intrusions, other than those specified, that affect an OGMA by less than 0.5 hectare in total.
    - (4) Where OGMA replacement forest is required as a result of activities under 3 (1) or (2), it must be of equivalent or better quality and quantity and be identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved. OGMA replacement areas must be documented, mapped and submitted to the satisfaction of the DDM at the end of each calendar year for his/her approval.
  4. Permissible Activities for Safety Purposes:
    - (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.

- (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.

## Results or Strategies for Objective 2

Maintain stand level structural diversity by retaining wildlife tree retention area (WTR). Cutblocks for which harvesting has been completed by each licensee by tenure will retain adequate amounts of wildlife tree retention area to ensure that over each 3-year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:

- (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
- (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention.
- (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
- (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target.
- (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
- (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
- (7) Where differences exist between mapped and actual BEC subzones, subzones will be confirmed by site plan information.

**Table A. Wildlife Tree Retention by BEC subzone in the Rogers Landscape Unit**

| BEC Subzone                                       | Wildlife Tree Retention % |
|---------------------------------------------------|---------------------------|
| CWH ds (Coastal Western Hemlock, dry submarine)   | 9                         |
| CWH ms (Coastal Western Hemlock, moist submarine) | 6                         |
| IDF ww (Interior Douglas Fir, wet warm subzone)   | 5                         |
| MH mm (Mountain Hemlock, moist maritime)          | 2                         |

# Billygoat Legal Orders and Objectives (Aug. 1, 2004)

## Legal Objectives - Billygoat FDU

### Results or Strategies for Objective 1

1. Maintain or recruit old growth forests in established old growth management areas (OGMAs), as shown on the attached Billygoat Landscape Unit map dated July 30, 2004 subject to timber harvesting and road construction in accordance with section 2, 3 and 4 below.
  2. (1) Where sufficient suitable replacement forest is available in the variants listed below, timber harvesting or road construction may be undertaken in OGMAs that are >10 ha in size for operational reasons up to a cumulative maximum of:
    - i) 10 ha in variant CWHds1,
    - ii) 20 ha in variant CWHms1,
    - iii) 10 ha in variant IDFww, and
    - iv) 15 ha in variant MHmm2,provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA.
  - (2) The criteria in 2 (1) is to apply to individual OGMAs within the categories below and must ensure that OGMA ecological attributes and spatial distribution are maintained or improved:
    - i) OGMAs >10 ha to <50 ha in size where the proposed activity affects the OGMA by <5ha,
    - ii) OGMAs ≥50 ha to <100 ha in size where the proposed activity affects the OGMA by <10ha,
    - iii) OGMAs ≥100 ha in size where the proposed activity affects the OGMA by <10%.
    - iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate and rehabilitate a temporary road or bridge site within four years after construction.
  - (3) Where OGMA boundary adjustments and replacement areas are required under section 2 (1) and (2) they must be documented, mapped and submitted to the satisfaction of the Delegated Decision Maker (DDM) at the end of each calendar year for his/her approval.
  - (4) The provisions in section 2 (1) and (2) do not apply to the following OGMAs #2, 7, 19, 28, 29, 58, 99, 100.
3. Permissible Activities:
  - (1) Timber harvest may occur to prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. Salvage within OGMAs will be done in a manner that retains as many old growth forest attributes as possible.
  - (2) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.
  - (3) Intrusions, other than those specified, that affect an OGMA by less than 0.5 hectare in total.
  - (4) Where OGMA replacement forest is required as a result of activities under 3 (1) or (2), it must be of equivalent or better quality and quantity and be identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved. OGMA replacement areas must be documented, mapped and submitted to the satisfaction of the DDM at the end of each calendar year for his/her approval.

#### 4. Permissible Activities for Safety Purposes:

- (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.
- (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.

### Results or Strategies for Objective 2

Maintain stand level structural diversity by retaining wildlife tree retention area (WTR). Cutblocks for which harvesting has been completed by each licensee by tenure will retain adequate amounts of wildlife tree retention area to ensure that over each 3-year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:

- (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
- (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention, except in the MHmm subzone.
- (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
- (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target.
- (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
- (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
- (7) Where differences exist between mapped and actual BEC subzones, subzones will be confirmed by site plan information.

**Table A. Wildlife Tree Retention by BEC subzone in the Billygoat Landscape Unit**

| BEC Subzone                                       | Wildlife Tree Retention % |
|---------------------------------------------------|---------------------------|
| CWH ds (Coastal Western Hemlock, dry subarctic)   | 7                         |
| CWH ms (Coastal Western Hemlock, moist subarctic) | 2                         |
| IDF ww (Interior Douglas Fir, wet warm subzone)   | 12                        |
| MH mm (Mountain Hemlock, moist maritime)          | 0                         |

# Meager LU: Legal Orders and Objectives (Aug. 1, 2004)

## Legal Objectives - Meager FDU

### Results or Strategies for Objective 1

1. Maintain or recruit old growth forests in established old growth management areas (OGMAs), as shown on the attached Meager Landscape Unit map dated July 30, 2004 subject to timber harvesting and road construction in accordance with section 2, 3 and 4 below.
2. (1) Where sufficient suitable replacement forest is available in the variants listed below, timber harvesting or road construction may be undertaken in OGMAs that are >10 ha in size for operational reasons up to a cumulative maximum of:
  - i) 5 ha in variant CWHds1,
  - ii) 30 ha in variant CWHms1, and
  - iii) 40 ha in variant MHmm2, provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA.
- (2) The criteria in 2 (1) is to apply to individual OGMAs within the categories below and must ensure that OGMA ecological attributes and spatial distribution are maintained or improved:
  - i) OGMAs >10 ha to <50 ha in size where the proposed activity affects the OGMA by <5ha,
  - ii) OGMAs ≥50 ha to <100 ha in size where the proposed activity affects the OGMA by <10ha,
  - iii) OGMAs ≥100 ha in size where the proposed activity affects the OGMA by <10%.
  - iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate and rehabilitate a temporary road or bridge site within four years after construction.
- (3) Where OGMA boundary adjustments and replacement areas are required under section 2 (1) and (2) they must be documented, mapped and submitted to the satisfaction of the Delegated Decision Maker (DDM) at the end of each calendar year for his/her approval.
- (4) The provisions in section 2 (1) and (2) do not apply to the following OGMAs #2, 51, 103, 105, 106, 107.
3. Permissible Activities:
  - (1) Timber harvest may occur to prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. Salvage within OGMAs will be done in a manner that retains as many old growth forest attributes as possible.
  - (2) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.
  - (3) Intrusions, other than those specified, that affect an OGMA by less than 0.5 hectare in total.
  - (4) Where OGMA replacement forest is required as a result of activities under 3 (1) or (2), it must be of equivalent or better quality and quantity and be identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved. OGMA replacement areas must be documented, mapped and submitted to the satisfaction of the DDM at the end of each calendar year for his/her approval.
4. Permissible Activities for Safety Purposes:
  - (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.
  - (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.

## Results or Strategies for Objective 2

Maintain stand level structural diversity by retaining wildlife tree retention area (WTR). Cutblocks for which harvesting has been completed by each licensee by tenure will retain adequate amounts of wildlife tree retention area to ensure that over each 3-year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:

- (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
- (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention, except in the MHmm subzone.
- (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
- (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target.
- (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
- (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
- (7) Where differences exist between mapped and actual BEC subzones, subzones will be confirmed by site plan information.

**Table A. Wildlife Tree Retention by BEC subzone in the Meager Landscape Unit**

| <b>BEC Subzone</b>                                | <b>Wildlife Tree Retention %</b> |
|---------------------------------------------------|----------------------------------|
| CWH ds (Coastal Western Hemlock, dry submarine)   | 9                                |
| CWH ms (Coastal Western Hemlock, moist submarine) | 7                                |
| MH mm (Mountain Hemlock, moist maritime)          | 0                                |

## Amendment Order Meager LU (Nov. 26, 2018)

|                                                                                                                                                                                                                                                                                                                                                                            |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| File: FOR-12500-25/UpperLillooet                                                                                                                                                                                                                                                                                                                                           |      |
| <b>AMENDMENT ORDER</b>                                                                                                                                                                                                                                                                                                                                                     |      |
| <b>OLD-GROWTH MANAGEMENT AREAS</b>                                                                                                                                                                                                                                                                                                                                         |      |
| <b>in the</b>                                                                                                                                                                                                                                                                                                                                                              |      |
| <b>UPPER LILLOOET LANDSCAPE UNIT</b>                                                                                                                                                                                                                                                                                                                                       |      |
| <p>Pursuant to Section 93.4 of the <i>Land Act</i>, through the <i>Land Use Objectives Regulation</i>, for the purposes of the <i>Forest and Range Practices Act (FRPA)</i>, I hereby amend the objectives in the Upper Lillooet Landscape Unit, an area located north-west of Pemberton, BC in the Sea to Sky Natural Resource District, effective November 26, 2018.</p> |      |
| <p>The boundaries of the old-growth management areas in the Upper Lillooet Landscape Unit are shown on the Upper Lillooet Landscape Unit map, dated November 26, 2018, attached to this Order, and contained in the old-growth management area spatial layer stored in the BC Geographic Warehouse (WHSE_LAND_USE_PLANNING.RMP_OGMA_LEGAL_CURRENT_SVW).</p>                |      |
| <br>Dave Southam<br>2018.12.10<br>09:54:10 -08'00'                                                                                                                                                                                                                                        |      |
| District Manager, Sea to Sky Natural Resource<br>District, South Coast Region, FLNRORD                                                                                                                                                                                                                                                                                     | Date |

# Railroad LU: Legal Orders and Objectives (Aug. 1, 2004)

## Legal Objectives - Railroad FDU

### Results or Strategies for Objective 1

1. Maintain or recruit old growth forests in established old growth management areas (OGMAs), as shown on the attached Railroad Landscape Unit map dated July 30, 2004 subject to timber harvesting and road construction in accordance with section 2, 3 and 4 below.
  2. (1) Where sufficient suitable replacement forest is available in the variants listed below, timber harvesting or road construction may be undertaken in OGMAs that are >10 ha in size for operational reasons up to a cumulative maximum of:
    - i) 20 ha in variant CWHds1,
    - ii) 25 ha in variant CWHms1,
    - iii) 15 ha in variant ESSFmw,
    - iv) 15 ha in variant IDFww, and
    - v) 10 ha in variant MHmm2,provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA.
  - (2) The criteria in 2 (1) is to apply to individual OGMAs within the categories below and must ensure that OGMA ecological attributes and spatial distribution are maintained or improved:
    - i) OGMAs >10 ha to <50 ha in size where the proposed activity affects the OGMA by <5 ha,
    - ii) OGMAs ≥50 ha to <100 ha in size where the proposed activity affects the OGMA by <10ha,
    - iii) OGMAs ≥100 ha in size where the proposed activity affects the OGMA by <10%.
    - iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate and rehabilitate a temporary road or bridge site within four years after construction.
  - (3) Where OGMA boundary adjustments and replacement areas are required under section 2 (1) and (2) they must be documented, mapped and submitted to the satisfaction of the Delegated Decision Maker (DDM) at the end of each calendar year for his/her approval.
  - (4) The provisions in section 2 (1) and (2) do not apply to the following OGMAs #2, 3, 4, 8, 14, 28, 37, 41, 45, 46, 48, 64, 76.
3. Permissible Activities:
  - (1) Timber harvest may occur to prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. Salvage within OGMAs will be done in a manner that retains as many old growth forest attributes as possible.
  - (2) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.
  - (3) Intrusions, other than those specified, that affect an OGMA by less than 0.5 hectare in total.
  - (4) Where OGMA replacement forest is required as a result of activities under 3 (1) or (2), it must be of equivalent or better quality and quantity and be identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved. OGMA replacement areas must be documented, mapped and submitted to the satisfaction of the DDM at the end of each calendar year for his/her approval.

4. Permissible Activities for Safety Purposes:

- (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.
- (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.

**Results or Strategies for Objective 2**

Maintain stand level structural diversity by retaining wildlife tree retention area (WTR). Cutblocks for which harvesting has been completed by each licensee by tenure will retain adequate amounts of wildlife tree retention area to ensure that over each 3-year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:

- (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
- (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention, except in the ESSF mw and MH mm subzone.
- (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
- (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target. (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
- (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
- (7) Where differences exist between mapped and actual BEC subzones, subzones will be confirmed by site plan information.

**Table A. Wildlife Tree Retention by BEC subzone in the Railroad Landscape Unit**

| <b>BEC Subzone</b>                                          | <b>Wildlife Tree Retention %</b> |
|-------------------------------------------------------------|----------------------------------|
| CWH ds (Coastal Western Hemlock, dry submarine)             | 8                                |
| CWH ms (Coastal Western Hemlock, moist submarine)           | 6                                |
| ESSF mw (Engelmann Spruce Subalpine Fir moist warm subzone) | 0                                |
| IDF ww (Interior Douglas Fir, wet warm subzone)             | 8                                |
| MH mm (Mountain Hemlock, moist maritime)                    | 0                                |

## Amendment Order Meager LU (Nov. 26, 2018)

File: FOR-12500-25/Railroad

**AMENDMENT ORDER**  
**OLD-GROWTH MANAGEMENT AREAS**  
**in the**  
**RAILROAD LANDSCAPE UNIT**

Pursuant to Section 93.4 of the *Land Act*, through the *Land Use Objectives Regulation*, for the purposes of the *Forest and Range Practices Act (FRPA)*, I hereby amend the objectives in the Railroad Landscape Unit, an area located north-west of Pemberton, BC in the Sea to Sky Natural Resource District, effective November 26, 2018.

The boundaries of the old-growth management areas in the Railroad Landscape Unit are shown on the Railroad Landscape Unit map, dated November 26, 2018, attached to this Order, and contained in the old-growth management area spatial layer stored in the BC Geographic Warehouse (WHSE\_LAND\_USE\_PLANNING.RMP\_OGMA\_LEGAL\_CURRENT\_SVW).

*D. Southam*

Dave Southam  
2018.12.10 09:53:21  
-08'00'

District Manager, Sea to Sky Natural Resource  
District, South Coast Region, FLNRORD

Date

# Ryan LU: Legal Orders and Objectives (Aug. 1, 2004)

## Legal Objectives - Ryan FDU

### Results or Strategies for Objective 1

1. Maintain or recruit old growth forests in established old growth management areas (OGMAs), as shown on the attached Ryan Landscape Unit map dated July 30, 2004, subject to timber harvesting and road construction in accordance with section 2, 3 and 4 below.
  2. (1) Where sufficient suitable replacement forest is available in the variants listed below, timber harvesting or road construction may be undertaken in OGMAs that are >10 ha in size for operational reasons up to a cumulative maximum of:
    - i) 5 ha in variant CWHds1,
    - ii) 25 ha in variant CWHms1, and
    - iii) 40 ha in variant MHmm2,provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA.
  - (2) The criteria in 2 (1) is to apply to individual OGMAs within the categories below and must ensure that OGMA ecological attributes and spatial distribution are maintained or improved:
    - i) OGMAs >10 ha to <50 ha in size where the proposed activity affects the OGMA by <5 ha,
    - ii) OGMAs ≥50 ha to <100 ha in size where the proposed activity affects the OGMA by <10ha,
    - iii) OGMAs ≥100 ha in size where the proposed activity affects the OGMA by <10%.
    - iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate and rehabilitate a temporary road or bridge site within four years after construction.
  - (3) Where OGMA boundary adjustments and replacement areas are required under section 2 (1) and (2) they must be documented, mapped and submitted to the satisfaction of the Delegated Decision Maker (DDM) at the end of each calendar year for his/her approval.
  - (4) The provisions in section 2 (1) and (2) do not apply to the following OGMAs #12, 14, 53, 87,144, 154.
3. Permissible Activities:
  - (1) Timber harvest may occur to prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. Salvage within OGMAs will be done in a manner that retains as many old growth forest attributes as possible.
  - (2) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.
  - (3) Intrusions, other than those specified, that affect an OGMA by less than 0.5 hectare in total.
  - (4) Where OGMA replacement forest is required as a result of activities under 3 (1) or (2), it must be of equivalent or better quality and quantity and be identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved. OGMA replacement areas must be documented, mapped and submitted to the satisfaction of the DDM at the end of each calendar year for his/her approval.

#### 4. Permissible Activities for Safety Purposes:

- (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.
- (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.

### Results or Strategies for Objective 2

Maintain stand level structural diversity by retaining wildlife tree retention area (WTR). Cutblocks for which harvesting has been completed by each licensee by tenure will retain adequate amounts of wildlife tree retention area to ensure that over each 3 year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:

- (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
- (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention, except in the MHmm subzone.
- (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
- (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target.
- (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
- (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
- (7) Where differences exist between mapped and actual BEC subzones, subzones will be confirmed by site plan information.

**Table A. Wildlife Tree Retention by BEC subzone in the Ryan Landscape Unit**

| BEC Subzone                                       | Wildlife Tree retention % |
|---------------------------------------------------|---------------------------|
| CWH ds (Coastal Western Hemlock dry subarctic)    | 10                        |
| CWH ms (Coastal Western Hemlock, moist subarctic) | 8                         |
| MH mm (Mountain Hemlock, moist maritime)          | 0                         |

# Soo LU: Legal Orders and Objectives (Aug. 1, 2004)

## Results or Strategies for Objective 1

1. Maintain or recruit old growth forests in established old growth management areas (OGMAs), as shown on the attached Soo Landscape Unit map dated July 30, 2004 subject to timber harvesting and road construction in accordance with section 2, 3 and 4 below.
2. (1) Where sufficient suitable replacement forest is available in the variants listed below, timber harvesting or road construction may be undertaken in OGMAs that are >10 ha in size for operational reasons up to a cumulative maximum of:
  - i) 35 ha in variant CWHms1, and
  - ii) 35 ha in variant MHmm2,provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA.
- (2) The criteria in 2 (1) is to apply to individual OGMAs within the categories below and must ensure that OGMA ecological attributes and spatial distribution are maintained or improved:
  - i) OGMAs >10 ha to <50 ha in size where the proposed activity affects the OGMA by <5 ha,
  - ii) OGMAs ≥50 ha to <100 ha in size where the proposed activity affects the OGMA by <10ha,
  - iii) OGMAs ≥100 ha in size where the proposed activity affects the OGMA by <10%.
  - iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate and rehabilitate a temporary road or bridge site within four years after construction.
- (3) Where OGMA boundary adjustments and replacement areas are required under section 2 (1) and (2) they must be documented, mapped and submitted to the satisfaction of the Delegated Decision Maker (DDM) at the end of each calendar year for his/her approval.
- (4) The provisions in section 2 (1) and (2) do not apply to the following OGMAs #1, 7, 8, 11, 16, 18, 46, 104.
3. Permissible Activities:
  - (1) Timber harvest may occur to prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. Salvage within OGMAs will be done in a manner that retains as many old growth forest attributes as possible.
  - (2) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.
  - (3) Intrusions, other than those specified, that affect an OGMA by less than 0.5 hectare in total.
  - (4) Where OGMA replacement forest is required as a result of activities under 3 (1) or (2), it must be of equivalent or better quality and quantity and be identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved. OGMA replacement areas must be documented, mapped, and submitted to the satisfaction of the DDM at the end of each calendar year for his/her approval.
4. Permissible Activities for Safety Purposes:
  - (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.
  - (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.

## Results or Strategies for Objective 2

Maintain stand level structural diversity by retaining wildlife tree retention area (WTR). Cutblocks for which harvesting has been completed by each licensee by tenure will retain adequate amounts of wildlife tree retention area to ensure that over each 3-year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:

- (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
- (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention.
- (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
- (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target.
- (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
- (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
- (7) Where differences exist between mapped and actual BEC subzones, subzones will be confirmed by site plan information.

**Table A. Wildlife Tree Retention by BEC subzone in the Soo Landscape Unit**

| <b>BEC Subzone</b>                                | <b>Wildlife Tree Retention<br/>%</b> |
|---------------------------------------------------|--------------------------------------|
| CWH ds (Coastal Western Hemlock, dry submarine)   | 8                                    |
| CWH ms (Coastal Western Hemlock, moist submarine) | 7                                    |
| MH mm (Mountain Hemlock, moist maritime)          | 3                                    |

# Amendment: Soo LU (Dec. 16, 2010)

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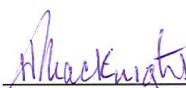
## Appendix 1

### Ministry of Natural Resource Operations

#### Ministerial Order

#### Amendment Order for the Soo Landscape Unit and Objectives

1. Pursuant to section 93.4 of the *Land Act* and by this order, the **Order to Establish the Soo Landscape Unit and Objectives in the Squamish Forest District**, signed August 13<sup>th</sup> 2004 by the Regional Executive Director Warren Mitchell, is amended as follows.
  - i) The boundary of the Soo Landscape Unit shown on the Soo Landscape Unit Map dated July 30, 2004, is repealed and replaced by the Soo Landscape Unit Map, dated February 5, 2010, attached to this Order.
  - ii) Old Growth Management Area 61 is repealed.
  - iii) Old Growth Management Areas 18 and 24 are repealed and replaced by the amended Old Growth Management Areas 18 and 24 shapes shown on the attached Soo Landscape Unit Map dated February 5, 2010.
  - iv) Objective 1(1) is repealed and replaced by "Maintain or recruit old growth forests in established old growth management areas (OGMAs), as shown on the attached Soo Landscape Unit map dated February 5, 2010 subject to timber harvesting and road construction in accordance with section 2, 3 and 4 below."
2. This Order takes effect on the day that notice of this Order is published in the Gazette.
3. Pursuant to section 8(2)(b) of the *Forest and Range Practices Act*, an approved forest stewardship plan must be amended to be consistent with this order within 12 months from the effective date of this Order.

  
Heather MacKnight  
Regional Executive Director, Coast Region  
Ministry of Natural Resource Operations

Dec. 16, 2010  
Date

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Confidential

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# Upper Lillooet LU: Legal Orders and Objectives (Aug. 1, 2004)

## Legal Objectives - Upper Lillooet FDU

### Results or Strategies for Objective 1

1. Maintain or recruit old growth forests in established old growth management areas (OGMAs), as shown on the attached Upper Lillooet Landscape Unit map dated July 30, 2004 subject to timber harvesting and road construction in accordance with section 2, 3 and 4 below.
2. (1) Where sufficient suitable replacement forest is available in the variants listed below, timber harvesting or road construction may be undertaken in OGMAs that are >10 ha in size for operational reasons up to a cumulative maximum of:
  - i) 15 ha in variant CWHms1, and
  - ii) 15 ha in variant MHmm2,provided that replacement OGMA of equivalent or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA.
- (2) The criteria in 2 (1) is to apply to individual OGMAs within the categories below and must ensure that OGMA ecological attributes and spatial distribution are maintained or improved:
  - i) OGMAs >10 ha to <50 ha in size where the proposed activity affects the OGMA by <5 ha,
  - ii) OGMAs ≥50 ha to <100 ha in size where the proposed activity affects the OGMA by <10ha,
  - iii) OGMAs ≥100 ha in size where the proposed activity affects the OGMA by <10%.
  - iv) Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may permanently deactivate and rehabilitate a temporary road or bridge site within four years after construction.
- (3) Where OGMA boundary adjustments and replacement areas are required under section 2 (1) and (2) they must be documented, mapped and submitted to the satisfaction of the Delegated Decision Maker (DDM) at the end of each calendar year for his/her approval.
- (4) The provisions in section 2 (1) and (2) do not apply to the following OGMAs #13, 28, 63, 65.
3. Permissible Activities:
  - (1) Timber harvest may occur to prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. Salvage within OGMAs will be done in a manner that retains as many old growth forest attributes as possible.
  - (2) Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.
  - (3) Intrusions, other than those specified, that affect an OGMA by less than 0.5 hectare in total.
  - (4) Where OGMA replacement forest is required as a result of activities under 3 (1) or (2), it must be of equivalent or better quality and quantity and be identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA; such that OGMA ecological attributes and spatial distribution are maintained or improved. OGMA replacement areas must be documented, mapped and submitted to the satisfaction of the DDM at the end of each calendar year for his/her approval.

4. Permissible Activities for Safety Purposes:

- (1) Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.
- (2) Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements.

**Results or Strategies for Objective 2**

1. Maintain stand level structural diversity by retaining wildlife tree retention area (WTR). Cutblocks for which harvesting has been completed by each licensee by tenure will retain adequate amounts of wildlife tree retention area to ensure that over each 3-year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved. In addition:
  - (1) WTR must be well distributed across the BEC subzone and located within or immediately adjacent to a cutblock.
  - (2) Each cutblock >10 ha in size must have a minimum of 2% wildlife tree retention, except in the MHmm subzone.
  - (3) No timber harvesting, including single tree selection, is to occur within WTR for at least one rotation, except as noted in (4) below.
  - (4) Salvage of windthrown timber and harvesting of remaining standing stems is only permitted within WTR where catastrophic windthrow exceeds 50% of the dominant or co-dominant stems; or where forest health issues pose a significant threat to areas outside the WTR. Where salvage/harvesting is planned and authorized, replacement WTR of equivalent or better quality and quantity must be identified immediately to achieve the retention target.
  - (5) WTR must include, if present, remnant old growth patches and live or dead veteran trees (excluding danger trees).
  - (6) WTR must include representative larger trees for the stand and any moderate to high value wildlife trees (excluding danger trees).
  - (7) Where differences exist between mapped and actual BEC subzones, subzones will be confirmed by site plan information.

**Table A. Wildlife Tree Retention by BEC subzone in the Upper Lillooet Landscape Unit**

| BEC Subzone                                       | Wildlife Tree Retention % |
|---------------------------------------------------|---------------------------|
| CWH ds (Coastal Western Hemlock, dry subarctic)   | 12                        |
| CWH ms (Coastal Western Hemlock, moist subarctic) | 6                         |
| MH mm (Mountain Hemlock, moist maritime)          | 0                         |

## Amendment Order Meager LU (Nov. 26, 2018)

File: FOR-12500-25/UpperLillooet

**AMENDMENT ORDER**  
**OLD-GROWTH MANAGEMENT AREAS**  
**in the**  
**UPPER LILLOOET LANDSCAPE UNIT**

Pursuant to Section 93.4 of the *Land Act*, through the *Land Use Objectives Regulation*, for the purposes of the *Forest and Range Practices Act (FRPA)*, I hereby amend the objectives in the Upper Lillooet Landscape Unit, an area located north-west of Pemberton, BC in the Sea to Sky Natural Resource District, effective November 26, 2018.

The boundaries of the old-growth management areas in the Upper Lillooet Landscape Unit are shown on the Upper Lillooet Landscape Unit map, dated November 26, 2018, attached to this Order, and contained in the old-growth management area spatial layer stored in the BC Geographic Warehouse (WHSE\_LAND\_USE\_PLANNING.RMP\_OGMA\_LEGAL\_CURRENT\_SVW).



Dave Southam  
2018.12.10  
09:54:10 -08'00'

District Manager, Sea to Sky Natural Resource  
District, South Coast Region, FLNRORD

Date



# **Mamquam Lizzie Tuwasus Sloquets LUs: OGMA Order Revised (October 30, 2014)**

## **PROVINCE OF BRITISH COLUMBIA**

### **Ministry of Forests, Lands and Natural Resource Operations**

#### **Ministerial Order**

#### **Land Use Objectives for the Lizzie, Mamquam, Tuwasus, Sloquet High, Sloquet North, Sloquet South Landscape Units, located in the Sea to Sky District**

##### **Part 1 - Interpretation**

- 1) Pursuant to Section 93.4 of the *Land Act*, the following objectives are established as land use objectives for the purposes of the *Forest and Range Practices Act (FRPA)* and apply to old-growth management areas (OGMAs) within the Lizzie, Mamquam, Tuwasus, Sloquet High, Sloquet North, and Sloquet South Landscape Units (LUs), as shown in the maps set out in Schedule A and contained in the old-growth management area spatial layer stored in the Geographic Warehouse (WHSE\_LAND\_USE\_PLANNING.RMP\_OGMA\_LEGAL\_CURRENT\_SVW).
- 2) If there is a discrepancy between the areas shown in the maps attached as Schedule A and the OGMA spatial layer stored in the Geographic Warehouse (WHSE\_LAND\_USE\_PLANNING.RMP\_OGMA\_LEGAL\_CURRENT\_SVW), the areas as detailed in the OGMA spatial layer will take precedence.
- 3) Nothing in, under or arising out of this order either abrogates or derogates from any aboriginal rights, aboriginal title or treaty rights of any applicable First Nation, nor relieves the Province of any obligation to consult with any applicable First Nation.

##### **Part 2 - Objectives**

The Objectives for Old Growth Management Areas (OGMAs) are as follows:

- 1) Retain trees in the OGMAs identified in Schedule A, except to fell trees where necessary for any of the following:
  - (a) To prevent insect infestations or diseases posing a significant threat to forest health;
  - (b) To remove an identified safety hazard within road right-of-ways, recreation sites, or trails;
- 2) Retain trees in the OGMAs identified in Schedule A, except to fell an area of trees where necessary for any of the following:
  - (a) To enable a safe falling boundary on a block immediately adjacent to the OGMA;
  - (b) To enable road or bridge construction for access to resource values beyond or adjacent to the OGMA, and no other practicable option for road or bridge location exists;
  - (c) To improve guyline clearance, tailholds, or tiebacks for guylines;
  - (d) To improve wind firmness along block boundaries.
- 3) The area of trees felled in an OGMA as provided in Part 2 (2) will not exceed the lesser of:
  - (a) Two hectares, or
  - (b) Five percent of the OGMA area.
- 4) The provisions in Part 2 (1) and (2) do not apply to the following OGMAs:  
Lizzie LU: SRY\_321\_002, SRY\_321\_007, SRY\_321\_011, SRY\_321\_018, SRY\_321\_025, SRY\_321\_039.  
Mamquam LU: SRY\_309\_55, SRY\_309\_006, SRY\_309\_077, SRY\_309\_035, SRY\_309\_102, SRY\_309\_110, SRY\_309\_112.

# Whistler LU: OGMA Order (Sept 10, 2015)

## PROVINCE OF BRITISH COLUMBIA

### Ministry of Forests, Lands and Natural Resource Operations

#### Ministerial Order

#### Land Use Objectives for the Whistler Landscape Unit

#### Sea to Sky District

##### Part 1 - Interpretation

1. Pursuant to Section 93.4 of the *Land Act*, the following objectives are established as land use objectives for the purposes of the *Forest and Range Practices Act (FRPA)* and apply to old-growth management areas (OGMAs) within the Whistler Landscape Units (LU), as shown in the map set out in Schedule A and contained in the old-growth management area spatial layer stored in the Geographic Warehouse (WHSE\_LAND\_USE\_PLANNING.RMP\_OGMA\_LEGAL\_CURRENT\_SVW).
2. If there is a discrepancy between the areas shown in the map attached as Schedule A and the OGMA spatial layer stored in the Geographic Warehouse (WHSE\_LAND\_USE\_PLANNING.RMP\_OGMA\_LEGAL\_CURRENT\_SVW), the areas as detailed in the OGMA spatial layer will take precedence.
3. Nothing in, under or arising out of this order either abrogates or derogates from any aboriginal rights, aboriginal title or treaty rights of any applicable First Nation, nor relieves the Province of any obligation to consult with any applicable First Nation.

##### Part 2 - Objectives

4. The Objectives for Old-Growth Management Areas (OGMAs) are as follows:

- 1) Retain trees in the OGMAs identified in Schedule A, except to fell trees where necessary for any of the following:
  - (b) To prevent insect infestations or diseases posing a significant threat to forest health;
  - (c) To remove an identified safety hazard within road right-of-ways, recreation sites, or trails;
- 2) Retain trees in the OGMAs identified in Schedule A, except to fell an area of trees where necessary for any of the following:
  - (a) To enable a safe falling boundary on a block immediately adjacent to the OGMA;
  - (b) To enable road or bridge construction for access to resource values beyond or adjacent to the OGMA, and no other practicable option for road or bridge location exists;
  - (c) To improve guyline clearance, tailholds, or tiebacks for guylines;
  - (d) To improve wind firmness along block boundaries.
- 3) The area of trees felled in an OGMA as provided in Section 4 (2) will not exceed the lesser of:
  - (a) Two hectares, or
  - (b) Five percent of the OGMA area.

### Part 3 – Identification of Replacement Area and Communication

5. The trees felled under Section 4(1) are to be left on-site to function as coarse woody debris, except where they pose a significant risk to forest health.
6. The licensee will identify an equivalent area of trees to replace the area of trees felled under Section 4 (2), and ensure each of the following conditions are met:
  - 1) The replacement area of trees is equal or greater to the area of trees felled,
  - 2) The replacement area of trees has equivalent or better stand attributes (i.e. age, site index, species distribution) than the area of trees felled, and
  - 3) The replacement area of trees is located according to the following order of priority:
    - (a) Connected to the OGMA subject to activities pursuant to Section 4 (2), in the same Biogeoclimatic Ecosystem Classification (BEC) variant;
    - (b) Connected to a nearby OGMA in the same BEC variant;
    - (c) A new area of trees located as close as is practicable to the OGMA subject to activities pursuant to Section 4 (2), in the same BEC variant.
7. The licensee will provide notice and documentation of the proposed area of trees felled under Section 4 (2), in addition to the proposed equivalent area of trees to replace the area of trees felled, to the district office with cutting permit, road permit, or other tenure application. Notice and documentation should include:
  - 1) A description of the proposed area and characteristics of trees to be removed from the OGMA;
  - 2) A description of the proposed replacement area and characteristics of trees required in accordance with Section 5; and
  - 3) Spatial data (i.e. GIS shape files) to identify the proposed area of trees felled from the OGMA and the proposed replacement area of trees.

### Part 4 -Effective Date and Transition

8. This order and the Objectives in this order take effect on the date that notice of this order is published in the BC Gazette.

  
(Signed) \_\_\_\_\_ Date (MM/DD/YY) 08/20/15

For Heather MacKnight, Regional Executive Director  
South Coast Region, Ministry of Forests, Lands and Natural Resource Operations