La-kwa sa muqw Forestry LP

Forest Stewardship Plan



Forest Stewardship Plan

2027-2032

Revision Date: November 12, 2026

Table of Contents

Table of Contents 1
Preamble 4
1 Dates 3
2 Interpretation and Definitions 3
2.1 Interpretation 3
2.2 Definitions: 3
3 Application of this FSP 4
3.1 Licences and Licensees (FRPA s. 3(4)) 4
3.2 Application of this FSP to Previous Plans 4
4 Term of this FSP (FRPA ss. 6(1)(a) and (b)) 4
5 FSP Map and Forest Development Units (FDUs) (FRPA Act s. 5(1)(a), FPPR s. 14) 4
5.1 Boundaries of the FDU (FPPR s. 14(1)(b)) 4
5.2 Areas to Which s. 196(1) of the Act Apply (FRPA s. 196(1); FPPR s. 14(1)(c) 4
5.3 Designations in Effect Four Months Before Submission of This FSP (FPPR s. 14(2)) 5
5.4 Areas within FDU in Which Commercial Timber Harvesting is Prohibited by Another Enactment (FPPR s. 14(3)(i)) 5
5.5 Areas within FDUs Subject to Cutting Permit or Road Permit (FPPR s. 14(3)(j)) 5
6 FRPA Values and Results or Strategies 6
6.1 Soils 6
6.1.1 Soil Disturbance Limits 6
6.1.2 Permanent Access Structures Limits 6
6.2 Timber 6
6.3 Wildlife 7
6.3.1 Species at Risk 7
6.3.1.1 Northern Goshawk (*Accipiter gentilis laingi*) 8
6.3.1.2 Red-Legged Frog (*Rana aurora*) 11
6.3.1.3 Marbled Murrelet (*Brachyramphus marmoratus*) 12
6.3.1.4 Great Blue Heron (*Ardea herodias fannini*) 16
6.3.2 Winter Survival of Specified Ungulate Species 17
6.3.2.1 Winter Survival of Specified Ungulate Species - Black-Tailed Deer (*Odocoileus hemionus columbianus*) and Elk (*Cervus elaphus roosevelti*) 17
6.4 Water, Fish, Wildlife and Biodiversity within Riparian Areas 19
6.4.1 Water, Fish, Wildlife and Biodiversity within Riparian Areas 19
6.4.2 Retention of Trees in a Riparian Management Zone 19
6.5 Fish Habitat in Fisheries Sensitive Watersheds 21
6.6 Water in Community Watersheds 22
6.7 Wildlife and Biodiversity – Landscape Level 23

DRAFT

6.7.1 Cutblock Size and Adjacency Limits 24
6.7.1.1 Special Management Zones 24
6.7.1.2 General Management Zones 25
6.7.1.3 Enhanced Forest Management Zones 26
6.7.2 Mature and Old Seral Stages – Special Management Zones 28
6.7.3 Late Successional Habitat Elements and Attributes of Biodiversity – Special Management Zones 29
6.7.4 Old Growth Management Areas (OGMAs) 30
6.7.4.1 Johnstone Strait Order 30
6.7.4.2 Sayward Landscape Unit Order 32
6.8 Wildlife and Biodiversity – Stand Level 33
6.8.1 Wildlife Tree Retention 33
6.9 Visual Quality 35
6.10 Cultural Heritage Resources 36
6.11 FRPA Value: Recreation 37
6.12 FRPA Value: Resource Features 38
7 FRPA Measures 38
7.1 Invasive Plants 38
7.2 Natural Range Barriers 40
8 Stocking Standards 41
8.1 Application 41
8.2 Situation or Circumstances that Determine Whether Free Growing is Assessed on a Block Basis 41
8.3 Stocking and Related Standards for Stands to which Free Growing Obligations Apply 42
8.3.1 Species 42
8.3.2 Stocking (Even-Aged Stocking Standards) 42
8.3.2.1 Target Stocking Standards 42
8.3.2.2 Minimum Stocking Standard 43
8.3.2.3 Minimum Horizontal Intertree Distance 43
8.3.2.4 Regeneration Date 43
8.3.2.5 Minimum Free Growing Height 43
8.3.2.6 Damage Criteria at Free Growing 43
8.3.2.7 Root Disease Control 43
8.4 Hardwood Management 43
8.5 Intermediate Cutting 44
9 Signature(s) (FRPA Act s. 5(3)) 45
Appendix 1 – Stocking Standards 46
Appendix 1.1 – Species Selection and Stocking Targets 46
Appendix 1.2 – Minimum Horizontal Inter-Tree Distance 51
Appendix 1.3 – Stocking Standard for Intermediate Cutting 52

DRAFT

Appendix 2 – Site Series Representation Analysis for SMZ 11 (R/S 6.7.3) – **To be revised for 2026, using TEM 53**

DRAFT

Preamble

This FSP encompasses lands within the traditional territories of several First Nations, as documented by evidence of historical use and the memories of their Elders. The FSP Holder will share information and work collaboratively with Wei Wai Kum First Nation, We Wai Kai First Nation, Tlowitsis Nation, K'ómoks First Nation and the Kwakiutl First Nation, and as appropriate, with Nanwakolas Council.

FSPs are the key operational plan under the *Forest and Range Practices Act* (FRPA). FSPs identify broad areas called Forest Development Units (FDUs) where timber harvesting and road construction may occur, are subject to public review and comment, and must be approved by government before taking effect. FSPs do not show cutblocks and roads for approval and are generally in effect for a five-year term.

For each of the FRPA values and their Objectives set by government, such as wildlife and biodiversity, the FSP identifies legally binding results and strategies, measures and standards which will be required to be implemented by each holder of the FSP in the FDU. Results and strategies are consistent, to the extent practicable, with government Objectives set out in land use plans, such as the Vancouver Island Land Use Plan, and sub-unit plans such as approved landscape unit plans.

This FSP includes one FDU, comprising TFL 64 (formerly and geographically equivalent to TFL 39 Block 2 for the purposes of this FSP) and Pacific TSA Block 18, where each Holder of the FSP is involved with cutblock development, as well as cutblocks with outstanding silviculture obligations. The entire area is within the Campbell River Forest District.

This FSP with maps and appendices can be found at https://www.westernforest.com/company/sustainability/planning-and-practices/.

More information on FSPs is available at:

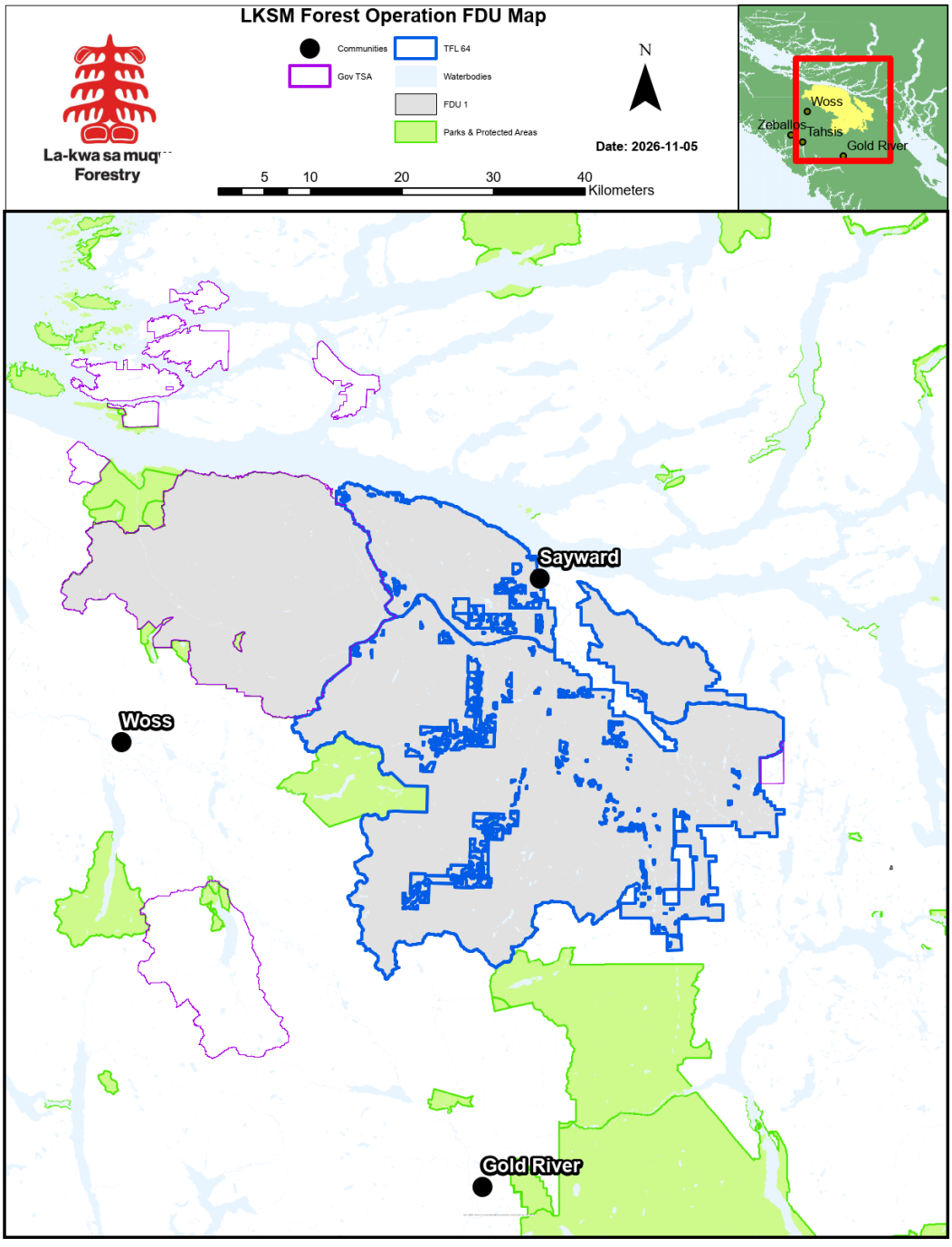
https://www2.gov.bc.ca/gov/content/industry/forestry/managing-our-forest-resources/forest-stewardship-plans.

Comments should be directed to:

La-kwa sa muqw Forestry
Attn. Bruce Vinnedge, RPF
Sr. Silviculture Forester
fsp@westernforest.com

DRAFT

Figure 1 – La-kwa sa muqw Forest Operation – FSP FDU Overview Map



1 Dates

Dates of submission and the effective dates are in the FSP Tracking System.

2 Interpretation and Definitions

2.1 Interpretation

Results or **Strategies** in this Forest Stewardship Plan (**FSP**) refer to the *Forest and Range Practices Act*, Forest Planning and Practices Regulation (**FPPR**) and the Government Actions Regulation (**GAR**) as they were on the date this **FSP** was submitted for approval.

The word "section" or "subsection" or the abbreviations "s." or "ss." is used to indicate a numbered section or sections of the indicated Act, Regulation, or Order. An **FSP** section or subsection may also be referred to with "s." or "ss." Where no other reference is indicated, "s." or "ss." refers to a section or subsection under the current header.

Sections of Orders, Notices, and Objectives are embedded within Objective Source or Background Information tables in this **FSP** for convenience only. If there is a discrepancy between this **FSP** text and a quoted section, the text in the Act, Regulation, Order, or Notice prevails, and should be used in preference to this **FSP** text. Where contained in this **FSP**, the preamble, objective sources and background information is not part of this **FSP** or **Results** or **Strategies**.

Certain terms are intentionally in bold type within the text, to add emphasis and to indicate the specific definition listed below (i.e. "holder" may indicate a holder of a different forest stewardship plan, while "**Holder**" indicates a holder of this **FSP**).

2.2 Definitions:

General definitions that apply to the entire text of the **FSP** are listed here. Where definitions appear under a section or subsection header, those definitions apply in that section or subsection.

"FDU" means forest development unit;

"**FPC**" means the *Forest Practices Code of British Columbia Act*.

"**FPPR**" means the Forest Planning and Practices Regulation.

"**FRPA**" means the *Forest and Range Practices Act*.

"**FSP**" means this Forest Stewardship Plan.

"**GAR**" means the Government Actions Regulation.

"**Holder"** means a holder of an agreement under the *Forest Act*, and a signatory to this **FSP**.

"**Licensee**" means an agreement holder under the *Forest Act*, that is a holder of this **FSP**.

"**Measure**" means obligations required by **FPPR** ss. 17-18.

"**Primary Forest Activity**" has the same meaning as in **FPPR** s. 1(1).

"**Result"** and **"Strategy**" have same meanings as in **FPPR** s. 1(1).

"**Stocking Standards**" means obligations required by **FPPR** s. 16

3 Application of this FSP

3.1 Licences and Licensees (FRPA s. 3(4))

1. This **FSP** applies to each cutting permit and road permit issued or granted to the **Licensees** holding this **FSP**:
    a. after the **FSP** term commences;
    b. within **FDUs**; and
    c. under or in respect of the following licences:

Agreement Holder	Licence
La-kwa sa muqw Forestry Ltd., Western Forest Products Inc.	TFL 64 (including TLs within the TFL)

3.2 Application of this FSP to Previous Plans

1. In the **FDU**, this **FSP** applies:
    a. To all cutblocks and roads subject to cutting permits issued to each **Holder** under the licences referred to in Paragraph 3.1 on or after the date approval of this **FSP**; and
    b. Where each **Holder** may elect to make changes to wildlife tree retention areas consistent with s. 6.8 of this **FSP**; and
    c. For a cutblock that has not been declared free growing that is within the **FDU,** each **Holder** may elect to, for the purpose of specifying stocking standards, and where it is ecologically appropriate, to have stocking standards approved under this **FSP** apply to standards units within cutblocks from previous plans. For each standards unit, this election is to be made prior to a free growing declaration.

4 Term of this FSP (FRPA ss. 6(1)(a) and (b))

1. The term of this **FSP** is specified by the minister or person delegated under **FRPA** s. 120.1.

5 FSP Map and Forest Development Units (FDUs) (FRPA Act s. 5(1)(a), FPPR s. 14)

5.1 Boundaries of the FDU (FPPR s. 14(1)(b))

1. The boundaries of the **FDU** under this **FSP** are shown on the **FDU** overview map (Figure 1). For certainty, the digital version of the **FDU** in the FSP Tracking System applies.

5.2 Areas to Which s. 196(1) of the Act Apply (FRPA s. 196(1); FPPR s. 14(1)(c)

1. Not applicable.

5.3 Designations in Effect Four Months Before Submission of This FSP (FPPR s. 14(2))

1. This **FSP** identifies designations and other areas listed in **FPPR** s. 14(2) that were in effect 4 months before this **FSP** was submitted for approval.

5.4 Areas within FDU in Which Commercial Timber Harvesting is Prohibited by Another Enactment (FPPR s. 14(3)(i))

1. N/A.

5.5 Areas within FDUs Subject to Cutting Permit or Road Permit (FPPR s. 14(3)(j))

1. See the FSP map for active cutting permit and road permit areas.
2. Blanket CPs issued for the purposes of salvage as listed in table:

Tenure	CP
TFL 64	8ZA

DRAFT

6 FRPA Values and Results or Strategies

6.1 Soils

OBJECTIVE SOURCE: SOILS		
Type	**Source**	**Effective Date of Objective**
BC Reg. 36/2023	FPPR s. 5	February 13, 2023
The objective set by government for soils is to conserve the productivity and the hydrologic function of soils.		

6.1.1 Soil Disturbance Limits

Exemption from Result or Strategy – FPPR s. 5

1. For the purposes of **FPPR** s. 12.1(1), each **Holder** undertakes to comply with **FPPR** s. 35 and is exempt from specifying an intended **Result** or **Strategy**.

6.1.2 Permanent Access Structures Limits

Definitions for the Purposes of s. 6.1.2 of this FSP

"**Cutblock**" means the total area specified in a cutblock site plan.

Exemption from Result or Strategy – FPPR s. 5

1. For the purposes of **FPPR** s. 12.1(1), each **Holder** undertakes to comply with **FPPR** s. 36 and is exempt from specifying an intended **Result** or **Strategy**.

6.2 Timber

OBJECTIVE SOURCE: TIMBER		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 14/2004	FPPR s. 6	January 31, 2004

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 considering 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.

Exemption from Result or Strategy – FPPR s. 6

1. In accordance with **FPPR** s. 12(8), each **Holder** is exempt from the requirement to prepare a **Result** or **Strategy** for an objective set by government for timber in **FPPR** s. 6.

6.3 Wildlife

OBJECTIVE SOURCE: WILDLIFE		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 36/2023	FPPR s. 7	February 13, 2023

1. The objective set by government for wildlife is 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.
2. A person required to prepare a forest stewardship plan must specify a result or strategy in respect of the objective stated under subsection (1) only if the minister responsible for the Wildlife Act gives notice to the person of the applicable
   a) species referred to in subsection (1), and
   b) indicators of the amount, distribution and attributes of wildlife habitat described in subsection (1).
3. If satisfied that the objective set out in subsection (1) is addressed, in whole or in part, by an objective in relation to a wildlife habitat area or an ungulate winter range, a general wildlife measure, or a wildlife habitat feature, the minister responsible for the Wildlife Act must exempt a person from the obligation to specify a result or strategy in relation to the objective set out in subsection (1) to the extent that the objective is already addressed.
4. On or after December 31, 2004, a notice described in subsection (2) must be given at least 4 months before the forest stewardship plan is submitted for approval.

6.3.1 Species at Risk

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 17/2004 s. 11(1) BC Reg. 582/2004 s. 13(1)	Order – Categories of Species at Risk (2004) Order – Categories of Species at Risk (2011 Update)	May 6, 2004 July 18, 2011
BC Reg. 14/2004 s. 7(2)	Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of the Species at Risk in the Campbell River Forest District.	July 27, 2004

Definitions for the Purposes of Results or Strategies in s. 6.3.1.

"**DCR s. 7 Notice**" means the "Notice - Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of the Species at Risk in the Campbell River Forest District (2004)".

"**Non-contributing landbase (NCLB)**" means that portion of the forest management land-base assumed to be unavailable for harvesting, given objectives for all forest values.

6.3.1.1 Northern Goshawk (*Accipiter gentilis laingi*)

OBJECTIVE SOURCE: WILDLIFE: NORTHERN GOSHAWK		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 17/2004	Order – Wildlife Habitat Areas #1-085 to 1-088 and 1-090 to 1-096	December 1, 2004

The Deputy Minister of Water, Land and Air Protection orders that:
1. the wildlife habitat areas shown in the maps set out in the attached Schedules A (1-085 to 1-088 and 1-090 to 1-096) are established;
2. the wildlife habitat areas in the attached Schedules A are established for Queen Charlotte Goshawks (Accipiter gentilis laingi); and
3. the general wildlife measures outlined in Schedule 1 are established for the wildlife habitat areas in the attached Schedules A
4. pursuant to section 7(3) of the Forest Planning and Practices Regulation the person(s) required to prepare a forest stewardship plan are hereby exempted from the obligation to prepare results or strategies in relation to the objective set out in section 7(1) of the Forest Planning and Practices Regulation for Queen Charlotte Goshawk in the Campbell River Forest District.

Schedule 1 - General Wildlife Measures

1. Access

- *Do not construct roads within WHA unless an exemption is approved by the designated decision maker.*

2. Harvesting and Silviculture

- *Do not harvest timber or salvage (e.g. cedar) except for traditional aboriginal purposes when an exemption is approved by the designated decision maker.*
- *Do not commercial thin, cedar-shake harvest or salal harvest within WHA unless the designated decision maker approves an exemption or harvest of these items is for traditional aboriginal purposes.*

3. Additional Management Considerations:

- *Minimize disturbance when working adjacent to a WHA between 15 February and 1 September. In general, avoid blasting, road construction, helicopter activity and other prolonged disturbance.*

Exemption from Result or Strategy – "Order – Wildlife Habitat Areas #1-085 to 1-088 and 1-090 to 1-096"

1. General Wildlife Measures have been established and the wildlife habitat area amount in the **DCR s. 7 Notice** has been met for this species; therefore, each **Holder** of this **FSP** is exempt under **FPPR** s. 7(3), from the obligation to specify a **Result** or **Strategy** for Northern

Goshawks. Each **Holder** will comply with the **GWMs** in the "Order – Wildlife Habitat Areas #1-085 to 1-088 and 1-090 to 1-096".

OBJECTIVE SOURCE: WILDLIFE: NORTHERN GOSHAWK		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 582/2004 ss. 9(2) and 10(1)	Order of the Minister of Water, Land and Resource Stewardship	March 9, 2023

Part 3: General Wildlife Measures (GWMs)

3. The following are established for the WHAs:

Access

1. *Do not construct roads.*
2. *GWM 1 does not apply in WHA-1-717 where a previously built road (UA107B) may be reactivated in the northeast of the WHA to access timber beyond the WHA. Any road construction, use, and deactivation should be restricted to the non-breeding season, September 16 to February 14. Minimize road width to the extent practicable Road UA107B will be barricaded to restrict motorized access through the WHA during the breeding season February 15 to September 15). Road UA107B will be deactivated following the completion of primary forest activities associated with block 40305.*

Harvest

3. *Do not harvest timber or conduct silviculture treatments.*
4. *GWM 3 does not apply for trees felled in accordance with GWM 2 and 3 in WHA 1-717 along the road Right-of-Way (ROW).*
5. *Trees felled in accordance with GWM 4 that fall outside the road ROW must be retained on-site to provide coarse woody debris.*
6. *GWM 3 does not apply where danger trees, guyline anchors and tailholds are required to facilitate worker safety during adjacent timber harvesting.*
7. *Trees felled in accordance with GWM 6 or Section 2(3) of the Forest Planning and Practices Regulation that fall within a WHA must be retained on-site to provide coarse woody debris.*

Chemical Applications

8. *Do not use pesticides, except for the application of herbicides to control for invasive plants or noxious weeds.*

Exemption from Result or Strategy – "Order of the Minister of Water, Land and Resource Stewardship"

2. General Wildlife Measures have been established and the wildlife habitat area amount in the **DCR s. 7 Notice** has been met for this species; therefore, each **Holder** of this **FSP** is exempt under **FPPR** s. 7(3), from the obligation to specify a **Result** or **Strategy** for Northern Goshawks. Each **Holder** will comply with the **GWMs** in the "Order of the Minister of Water, Land and Resource Stewardship" (March 9, 2023).

OBJECTIVE SOURCE: WILDLIFE: NORTHERN GOSHAWK		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 582/2004 ss. 9(2) and 10(1)	Order of the Minister of Water, Land and Resource Stewardship	May 26, 2025

OBJECTIVE SOURCE: WILDLIFE: NORTHERN GOSHAWK		
Authority	**Category/Source**	**Effective Date of Objective**

Part 3: General Wildlife Measures (GWMs)

The following are established for the WHAs:

Access

5) *Do not construct roads, except for previously built C501 road in WHA 1-750 (Appendix B), which can be reactivated by the holder of a valid road use permit to access timber beyond the WHA in proposed blocks currently identified as 21052 and 21053.*
   a) *Road construction, road deactivation, or hauling is restricted to July 2nd through February 14.*
7) *In roads that may be reactivated through WHAs 1-574, 1-734, 1-750, 1-752, and 1-768 in accordance with GWMs 2 to 6, minimize road width to the extent practicable.*
8) *In roads that may be reactivated through WHAs 1-574, 1-734, 1-750, and 1-768 in accordance with GWMs 3 to 6, road will be deactivated following the completion of primary forest activities associated with their use.*

Harvest

9) *Do not harvest timber or conduct silviculture treatments in WHAs 1-740, 1-754, 1-769, or 1-770, except where guyline anchors and tailholds are required to facilitate worker safety during adjacent timber harvesting.*
10) *Do not harvest timber or conduct silviculture treatments in WHAs 1-574, 1-734, 1-750, 1-752, and 1-768, except for trees felled in accordance with GWM(s) 2 to 6 in the road rights-of-way, or where guyline anchors and tailholds are required to facilitate worker safety during adjacent timber harvesting.*
11) *Trees felled within the WHA in accordance with GWM 9, GWM 10 outside of the road rights-of-way, or Section 2(3) of the Forest Planning and Practices Regulation must be retained on-site to provide coarse woody debris.*

***Chemical** Applications*

12) *Do not use pesticides, except for the application of herbicides to control for invasive plants or noxious weeds.*

Exemption from Result or Strategy – "Order of the Minister of Water, Land and Resource Stewardship"

3. General Wildlife Measures have been established and the wildlife habitat area amount in the **DCR s. 7 Notice** has been met for this species; therefore, each **Holder** of this **FSP** is exempt under **FPPR** s. 7(3), from the obligation to specify a **Result** or **Strategy** for Northern Goshawks. Each **Holder** will comply with the **GWMs** in the "Order of the Minister of Water, Land and Resource Stewardship" (May 29, 2025).

6.3.1.2 Red-Legged Frog (*Rana aurora*)

OBJECTIVE SOURCE: WILDLIFE: RED-LEGGED FROG		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 582/2004 ss. 9(2) and 10(1).	Order – Wildlife Habitat Areas – WHA 1-481, I-482, I-483, 1-484, I-485, I-486 Red-legged Frogs, Campbell River Natural Resource District	April 1, 2014

1.c) pursuant to section 7(3) of the Forest Planning and Practices Regulation the person(s) required to prepare a forest stewardship plan are hereby exempted from the obligation to prepare results or strategies in relation to the objective set out in section 7(1) of the Forest Planning and Practices Regulation to the extent that wildlife habitat areas I-481 ,1-482,1-483,1-484,1-485,1-486 address the amount included for Red-legged Frogs in the Notice for the Campbell River Natural Resource District.

Schedule 1 - General Wildlife Measures (GWMs):

Access

1. Do not construct roads.

2. An authorized person who carries out a primary forest activity within WHAs with existing roads must conduct the activity at a time and in a manner that is unlikely to create road generated sedimentation that would harm Red-legged Frogs or destroy, damage or harmfully alter Red-legged Frog breeding habitat in the WHA.

Harvesting and silviculture

3. Do not fell trees or conduct timber harvesting, salvage or silvicultural activities, including crown modifications or windfirming treatments.

4. GWM 3 does not apply for felling of danger trees for worker safety and where guyline anchors and tailholds are required to facilitate timber harvesting outside a WHA.

5. Trees felled in accordance with GWM 3 must be retained on-site to provide coarse woody debris.

Pesticides

6. Do not use pesticides, except for the control for invasive plants or noxious weeds and applied:

a) by stem injection, cut and paint, foliar wipe or other direct plant application; or

b) by spot spraying for individual plants or cluster of plants if direct plant application is not practicable; and

c) with no direct application to either Red-legged Frogs or water.

Exemption from Result or Strategy – "Order – Wildlife Habitat Areas – WHA 1-481, I-482, I-483, 1-484, I-485, I-486 Red-legged Frogs, Campbell River Natural Resource District"

1. General Wildlife Measures have been established and the wildlife habitat area amount in the **DCR s. 7 Notice** has been met for this species; therefore, each **Holder** of this **FSP** is exempt under **FPPR** s. 7(3), from the obligation to specify a **Result** or **Strategy** for Red-Legged Frogs. Each **Holder** will comply with the **GWMs** in the "Order – Wildlife Habitat Areas – WHA 1-481, I-482, I-483, 1-484, I-485, I-486 Red-legged Frogs, Campbell River Natural Resource District".

6.3.1.3 Marbled Murrelet (*Brachyramphus marmoratus*)

Definitions for the purposes s. 6.3.1.3 of this FSP

"OGMA" means Old Growth Management Area, as defined in **FPPR** s. 1.

"**Order**" means the "Order for the Recovery of Marbled Murrelet (*Brachyramphus marmoratus*)", effective December 2, 2021.

"**MAMU**" means the species Marbled Murrelet (*Brachyramphus marmoratus*).

"**Notice**" means the "Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Marbled Murrelet (*Brachyramphus marmoratus*)", effective December 2, 2021.

"**Planning Tables**" means areas of **Suitable Habitat** distributed across forest tenures in a given forest district, within each landscape unit aggregate and landscape unit portion, which may be varied consistent with Objective 3(4) of the **Order**.

"Suitable Habitat" means Marbled Murrelet nesting habitat, that has the attributes of wildlife habitat listed in Schedule 1 of the **Notice**.

"WHA" means Wildlife Habitat Area, as defined in **FPPR** s. 1.

"**Working Group**" means Forest Stewardship Plan and Woodlot License Plan holders that:

- operate in areas with shared **Planning Tables**;
- wish to enable flexibility provisions in the **Order** and **Notice**; and
- have agreed to terms of assembly, regarding coordination and cooperation.

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 14/2004 s. 7(2)	Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Marbled Murrelet (*Brachyramphus marmoratus*)	December 2, 2021

The notice includes indicators of the amount, distribution and attributes of wildlife habitat required for the survival of the species at risk outlined in Schedule 1.

Suitable habitat within approved Wildlife Habitat Areas is included in the indicators of the amount, distribution and attributes for each of the species outlined in Schedule 1. As per section 7(3) of the Forest Planning and Practices Regulation, forest tenure holders are exempt from the obligation to specify a result or strategy in relation to the objective set out in section 7(1) of the Forest Planning and Practices Regulation, for approved Wildlife Habitat Areas.

SCHEDULE 1

1) Marbled Murrelet (Brachyramphus marmoratus)
Amount:

1. Table 1 provides the minimum amount of Marbled Murrelet nesting habitat (Suitable Habitat) to be maintained within both Marbled Murrelet Wildlife Habitat Areas (WHAs) and Old Growth Management Areas (OGMAs) combined and the minimum amount of Suitable Habitat to be maintained within Marbled Murrelet WHAs within Forest Districts.

Distribution:

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	**Category/Source**	**Effective Date of Objective**
1. Table 2 provides the minimum amount of Suitable Habitat to be maintained within both Marbled Murrelet WHAs and OGMAs combined and the minimum amount of Suitable Habitat to be maintained within Marbled Murrelet WHAs within landscape unit aggregates. *2. Table 3 provides the target and minimum amount of Suitable Habitat to be maintained within both Marbled Murrelet WHAs and OGMAs combined and the minimum amount of Suitable Habitat to be maintained within Marbled Murrelet WHAs within landscape unit portions.*		

Strategy – "Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Marbled Murrelet (*Brachyramphus marmoratus*)"

1. To meet the requirements of the **Notice**, each **Holder** will coordinate with other holders in a **Working Group**, as follows:
    a. As a **Strategy**, to comply with the **Notice**, each **Holder** will:
        i. Maintain at least:
            I. For each landscape unit portion, the **MAMU WHA Suitable Habitat** Minimum listed in the Notice, Schedule 1, Table 3; and
            II. For each landscape unit aggregate, the **MAMU WHA Suitable Habitat** Minimum listed in the **Notice**, Schedule 1, Table 2;
        ii. Maintain at least:
            I. For each landscape unit portion, the **MAMU WHA** and **OGMA Suitable Habitat** Minimum listed in the **Notice**, Schedule 1, Table 3; and
            II. For each landscape unit aggregate, the **MAMU WHA** and **OGMA Suitable Habitat** Minimum listed in the **Notice**, Schedule 1, Table 2;
        iii. Reach agreement on specific amounts, for each landscape unit portion:
            I. Of an amount greater than or equal to the **MAMU WHA Suitable Habitat** Minimum, to be established as **MAMU WHAs**; and
            II. Of an amount greater than or equal to the **MAMU WHA** and **OGMA Suitable Habitat** Minimum, to be established as **MAMU WHAs** and **OGMAs**;
        iv. Identify, for each landscape unit portion, or several landscape unit portions within a landscape unit aggregate:
            I. The equivalent amount of **Suitable Habitat** to be maintained above the **MAMU WHA Suitable Habitat** Target listed in the **Notice**, Schedule 1, Table 3; and
            II. The equivalent amount of **Suitable Habitat** to be maintained above the **MAMU WHA** and **OGMA Suitable Habitat** Target listed in the **Notice**, Schedule 1, Table 3;

    or

    b. If agreement cannot be reached, prior to harvesting disputed **Suitable Habitat**:

i. Each **Holder** will apply the **Planning Tables** and notify other Forest Stewardship Plan and Woodlot License Plan holders until agreement is reached in the **Working Group** assembly; or
ii. The **Working Group** will request that the Minister establish proportional **Suitable Habitat** targets pursuant to **FPPR** s. 19.

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	**Category/Source**	**Effective Date of Objective**
Land Act s. 93.4	Order for the Recovery of Marbled Murrelet (*Brachyramphus marmoratus*)	December 2, 2021

3. Objectives for Marbled Murrelet nesting habitat
(1) Maintain Suitable Habitat as follows:
(a) For each:
landscape unit aggregate in the order area:
Retain all timber in an amount equal to or greater than the minimum habitat threshold listed in Column "A" in Table 1 in Schedule "7".
(b) For each:
landscape unit portion in the order area:
Retain all timber in an amount equal to or greater than the suitable habitat target listed in Column "A" in Table 2 in Schedule "7";
(2) Despite subsection (1)(b), the amount of timber that must be retained within a landscape unit portion in the West and North Vancouver Island and Southern Mainland Coast Conservation Regions may be less than the suitable habitat target listed in Column "A" in Table 2 in Schedule "7", provided that:
The amount of timber retained is equal to or greater than the minimum habitat threshold listed in Column "B" in Table 2 in Schedule "7".
(3) Despite subsection (1)(a), Suitable Habitat polygons shown in Schedule "1 to 6" in the East Vancouver Island Conservation Region may be harvested, provided that harvesting is required for road access, other infrastructure, or to address safety concerns, where there is no practicable alternative.
(4) Variance from the Objectives in Sections 3.(1) to 3.(3) for the Suitable Habitat polygons shown in Schedule "1 to 6" may be allowed, provided that:
(a) A Qualified Professional:
(i) Completes a field assessment that identifies the characteristics of Suitable Habitat using established standards; and
(ii) Confirms the alteration will result in no net loss or functional loss of Suitable Habitat.
(b) A Regional Ministry of Forests, Lands, Natural Resource Operations and Rural Development biologist approves the alteration of the Suitable Habitat polygons.

Strategy – "Order for the Recovery of Marbled Murrelet (*Brachyramphus marmoratus*)"

2. To meet the requirements of the **Order**, each **Holder** will coordinate with other holders in a **Working Group**, as follows:
    a. As a **Strategy**, to comply with the **Order**, each **Holder** will:
        i. Reach agreement on specific amounts of **Suitable Habitat** to maintain by retaining all timber, equal to or greater than:
            I. The amount listed in **Order**, Schedule 7, Table 2, Column "A", for each landscape unit portion; or

II. The amount listed in the **Order**, Schedule 7, Table 1, Column "A", for each landscape unit aggregate, and the amount listed in the **Order**, Schedule 7, Table 2, Column "B" for each landscape unit portion;

and

ii. Use the **Planning Tables** as a basis to identify **Suitable Habitat** distribution to maintain by retaining all timber, equal to or greater than:

I. The amount listed in **Order**, Schedule 7, Table 2, Column "B", for each landscape unit portion; and

II. The amount listed in the **Order**, Schedule 7, Table 1, Column "A", for each landscape unit aggregate;

or

b. If agreement cannot be reached, prior to harvesting disputed **Suitable Habitat**:

i. Each **Holder** will apply the **Planning Tables** and notify other Forest Stewardship Plan and Woodlot License Plan holders until agreement is reached in the **Working Group** assembly; or

ii. The **Working Group** will request that the Minister establish proportional **Suitable Habitat** targets pursuant to **FPPR** s. 19;

and each **Holder** may apply for a variance from the **Order** Objectives, individually or in coordination with other **Working Group** members, according to s. 3(4) of the **Order**.

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 582/2004 ss. 9(2) and 10(1)	Order of the Minister of Water, Land and Resource Stewardship	September 5, 2024
Part 3. General Wildlife Measures (GWMs) ***Access:*** *b) Do not construct roads.* ***Harvesting and Silviculture:*** *c) Do not fell trees or conduct timber harvesting, salvage or silvicultural activities, including crown modifications or windfirming treatments.* *d) GWM 2 does not apply for felling of danger trees for worker safety and where guyline anchors and tailholds are required to facilitate timber harvesting outside a WHA.* *e) Trees felled in accordance with GWM 3 must be retained on-site to provide coarse woody debris.* ***Pesticides:*** *f) Do not use pesticides, except for the application of herbicides to control for invasive plants or noxious weeds.*		

Exemption from Result or Strategy for WHAs Established by the "Order of the Minister of Water, Land and Resource Stewardship"

3. General Wildlife Measures have been established by the "Order of the Minister of Water, Land and Resource Stewardship" for **WHAs** 1-732 and 1-733; therefore, each **Holder** of this **FSP** is exempt under **FPPR** s. 7(3), from the obligation to specify a **Result** or **Strategy** for

WHAs 1-732 and 1-733. Each **Holder** will comply with the **GWMs** in the "Order of the Minister of Water, Land and Resource Stewardship" (September 5, 2024).

6.3.1.4 Great Blue Heron (*Ardea herodias fannini*)

OBJECTIVE SOURCE: WILDLIFE: GREAT BLUE HERON		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 14/2004 s. 7(2)	Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of the Species at Risk in the Campbell River Forest District.	July 27, 2004

5) Great Blue Heron (Ardea herodias fannini)

Amount:

g) 160 ha of suitable habitat not exceeding an impact to the mature timber harvesting landbase of 24 ha.

Distribution:

1. *The amount of habitat referenced above must be distributed to provide:*
   - *areas of suitable habitat of the size, spatial distribution and connectivity identified in the species account for Great Blue Heron in the Accounts and Measures for Managing Identified Wildlife (Identified Wildlife Management Strategy Version 2004).*
2. *Locate the areas described above within the ecosections and preferred elevations identified in the species account for Great Blue Heron in the Accounts and Measures for Managing Identified Wildlife (Identified Wildlife Management Strategy Version 2004).*

Attributes:

1. *Use the species account for Great Blue Heron in the Accounts and Measures for Managing Identified Wildlife (Identified Wildlife Management Strategy Version 2004) to identify the attributes of suitable nesting habitat and goals for the management of wildlife habitat areas.*

Great Blue Heron Potential Habitat Proportional Amount Calculation

Geographic Area	*Proportion*	*Proportional Area (ha)*	*Proportional THLB (ha)*
TFL 64	*0.047358*	*7.6*	*1.1*
Pacific TSA Block 18	*0.045542*	*7.3*	*1.1*

Strategy – DCR s. 7 Notice

1. To comply with s. 5 of Schedule 1 of the **DCR s. 7 Notice**, as a **Strategy**, each **Holder** will maintain suitable habitat with attributes required in the **DCR s. 7 Notice** which will update as new **WHAs** that are subsequently established are subtracted from the amount. The amount of suitable habitat required in the **DCR s. 7 Notice** is 160 ha total, of which 24 ha is in the timber harvesting land base, on the effective date of this **FSP**.

6.3.2 Winter Survival of Specified Ungulate Species

6.3.2.1 Winter Survival of Specified Ungulate Species - Black-Tailed Deer (*Odocoileus hemionus columbianus*) and Elk (*Cervus elaphus roosevelti*)

OBJECTIVE SOURCE: WILDLIFE: WINTER SURVIVAL OF SPECIFIED UNGULATE SPECIES		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 107/98 ss. 69(1)(a) and (b)	Order – Ungulate Winter Range #U1-004 - TFL 39-2	December 17, 2003
Management Objectives *Objective 1: Road construction is not to occur within the designated ungulate winter ranges unless there is no other practicable option, the quality of the winter ranges will not be significantly affected, and a variance is approved by the MWLAP Statutory Decision Maker or designate.* *Objective 2: Harvesting is not to occur within the designated ungulate winter ranges unless a variance is approved by the MWLAP Statutory Decision Maker or designate. A variance would only normally be considered for the purposes of enhancing the quality of the winter range.* *Objective 3: Salvage harvesting is not to occur within the designated ungulate winter ranges, unless a variance is approved by the MWLAP Statutory Decision Maker or designate.* *Objective 4: Road maintenance, road deactivation, felling of danger trees or brushing and clearing on existing roads within the UWR is allowed. Where required to address worker safety, felling of danger trees, felling for guy line anchors, felling of tail hold anchor trees within an UWR is allowed along adjacent cutblock boundaries. Any trees that must be felled within an UWR will be left onsite to provide coarse woody debris, unless the felled tree lies outside the UWR. The holder of TFL 39 Block 2 will ensure that UWR values are maintained and incorporated when addressing worker safety concerns.*		

Strategy – "Order – Ungulate Winter Range #U1-004 - TFL 39-2"

1. As a **Strategy**, each **Holder** will comply with the Management Objectives in the "Order – Ungulate Winter Range #U1-004 - TFL 39-2".

OBJECTIVE SOURCE: WILDLIFE: WINTER SURVIVAL OF SPECIFIED UNGULATE SPECIES		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 582/2004 ss. 9(1-2) and 12(1)	Order – Amendment to Ungulate Winter Range #U1-005 – Strathcona TSA	May 16, 2007
Schedule 1: General Wildlife Measures: *1. Road construction is not to occur within the designated ungulate winter ranges unless there is no other practicable option and an exemption is approved by the MOE delegated decision maker. An exemption is not required for the future construction of a road in UWR Unit #56 (KAS-13) to access an approved cutblock beyond. The road will be constructed in a manner that does not result in a material adverse impact on the ungulate winter range habitat (i.e. minimum clearing width).* *2. An exemption is not required for road maintenance, road deactivation, felling of danger trees or brushing and clearing on existing roads within the UWR. These activities will be conducted in a*		

OBJECTIVE SOURCE: WILDLIFE: WINTER SURVIVAL OF SPECIFIED UNGULATE SPECIES		
Authority	**Category/Source**	**Effective Date of Objective**
manner that does not result in a material adverse impact on the ungulate winter range habitat within the designated ungulate winter range. *3. Harvesting is not to occur within the designated ungulate winter ranges unless an exemption is approved by the MOE delegated decision maker. An exemption would normally only be considered for the purposes of enhancing the quality of the winter range.* *4. An exemption is not required for harvesting within the designated ungulate winter ranges when it is required to address worker safety: felling of danger trees, felling for guy line anchors, felling of tail hold anchor trees within an UWR along adjacent cutblock boundaries. Harvesting will be conducted in a manner that does not result in a material adverse impact on the ungulate winter range habitat within the designated ungulate winter ranges.* *5. Trees that must be felled within an UWR will be left onsite to provide coarse woody debris, unless the felled tree lies outside the UWR.* *6. Salvage harvesting is not to occur within the designated ungulate winter ranges unless an exemption is approved by the MOE designated authority.* *7. An authorized person who carries out a primary forest activity within 100m of a designated ungulate winter range, as per Schedule A, must ensure that the adjacent designated ungulate winter range is not materially adversely affected by foreseeable impacts of their activities.*		

Strategy – "Order – Ungulate Winter Range #U1-005 – Strathcona TSA"

2. As a **Strategy**, each **Holder** will comply with the General Wildlife Measures in Schedule 1 of the "Order – Amendment to Ungulate Winter Range #U1-005 – Strathcona TSA".

OBJECTIVE SOURCE: WILDLIFE: WINTER SURVIVAL OF SPECIFIED UNGULATE SPECIES		
Authority	**Category/Source**	**Effective Date of Objective**
FPC s. 4	Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit, Objective 3	July 1, 2003
Provide for spring forage adjacent to Ungulate Winter Ranges/Deer, as indicated on the Sayward Landscape Unit map, titled Biodiversity and Wildlife by managing seral stages as follows: Identifying Ungulate Winter Ranges/Deer within Tree Farm Licence 39 and managing as per the Weyerhaeuser Standard Operating Procedure for the management of critical spring forage adjacent to black-tailed deer winter ranges, dated and approved July 9, 2001.		

Strategy – "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit", Objective 3

3. As a **Strategy**, in that portion of TFL 64 subject to the "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit," each **Holder** will comply with the "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit," Objective 3.

6.4 Water, Fish, Wildlife and Biodiversity within Riparian Areas

6.4.1 Water, Fish, Wildlife and Biodiversity within Riparian Areas

OBJECTIVE SOURCE: WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 36/2023	FPPR s. 8	February 13, 2023
The objective set by government for water, fish, wildlife and biodiversity within riparian areas is to conserve, at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas.		
BC Reg. 201/2002, s. 64	Establishing Riparian Reserve Zones and Riparian Management Zones for Lakes	February 26, 2003
The management objective for established RRZs is as follows: *To manage for fisheries values within those areas noted as Riparian Reserve Zones as shown on the Sayward Landscape Unit map, titled Lakeshore Management by:* • *Prohibiting timber harvesting, including salvage, unless such activities occur within established recreation sites and/or trails and are complementary to the recreation setting and experience as determined by the Statutory Decision Maker, and* • *Prohibiting road construction unless no other practicable options exist as determined by the Statutory Decision Maker.* *Also, pursuant to section 64 of the Forest Practices Code Act (FPC) Operational and Site Plan Regulation, I Rory Annett, District Manager for the Campbell River Forest District establish riparian management zones (RMZs) for the following lakes within the Sayward landscape unit: McIvor, Beaver, Comeback, Hemp, Lawnchair, Lily, Little Mud, Pocket, Reed, Sedge, Shadow, Smolt, Star, and Whistlepunk.*		

Strategy – Objective set by government for water, fish, wildlife and biodiversity within riparian areas (FPPR s. 8)

1. As a **Strategy**, each **Holder** undertakes to comply with **FPPR** ss. 47 to 51, 52(2) and 53, and in addition:
    a. Within the Sayward Landscape Unit Plan area in the **FDU**, each **Holder** will manage for fisheries values within those areas noted as Riparian Reserve Zones as shown on the Sayward Landscape Unit map, titled Lakeshore Management, by prohibiting timber harvest and road construction within 50 m of Notch Lake.

6.4.2 Retention of Trees in a Riparian Management Zone

OBJECTIVE SOURCE: WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 14/2004	FPPR s. 12(3)	January 31, 2004

OBJECTIVE SOURCE: WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS		
Authority	**Category/Source**	**Effective Date of Objective**
(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.		
FPC s. 4	Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit, Objective 5	July 1, 2003
To manage stand structure and protect Critical Stream Reaches, as shown on the Sayward Landscape Unit map, titled Lakes Classification, and Small Spawning and Rearing Streams (S4) by: • *Retaining all windfirm trees with roots embedded in the bank; and* • *For S4 streams, retaining 50% of the stems, representative of species, age and size, within 10 m of the channel.*		
BC Reg. 201/2002, s. 64	Establishing Riparian Reserve Zones and Riparian Management Zones for Lakes	February 26, 2003
Also, pursuant to section 64 of the Forest Practices Code Act (FPC) Operational and Site Plan Regulation, I Rory Annett, District Manager for the Campbell River Forest District establish riparian management zones (RMZs) for the following lakes within the Sayward landscape unit: McIvor, Beaver, Comeback, Hemp, Lawnchair, Lily, Little Mud, Pocket, Reed, Sedge, Shadow, Smolt, Star, and Whistlepunk. *The management objective for established RMZs is as follows:* *To ensure that for a distance of 50 metres from the timbered edge surrounding the following lakes within the Sayward Landscape Unit: McIvor, Beaver, Comeback, Hemp, Lawnchair, Lily, Little Mud, Pocket, Reed, Sedge, Shadow, Smolt, Star, and Whistlepunk, that no more than 25% of the forested area be less than 5 metres in height.*		

Strategy – FPPR s. 12(3)

1. For the purposes of **FPPR** s. 12(3), as a **Strategy**, to address the retention of trees in a riparian management zone, each **Holder** will:
    a. Ensure that prior to harvesting, retention levels within RMZs are determined by a qualified professional through a riparian assessment that considers:
        i. All the factors listed in Schedule 1, s. 2 of the **FPPR**; and
        ii. Potential site-specific safety and operational issues;
    b. Design cutblocks and roads in compliance with the retention levels as determined by the qualified professional as described in s. 1.a; and
    c. Plan and conduct **Primary Forest Activities** in compliance with the assessment and design in this **Strategy**;

    and
2. In addition to s. 1 of this **Strategy**, within the Sayward Landscape Unit Plan area in the **FDU**, when carrying out a **Primary Forest Activity**, each **Holder** will:
    a. Comply with the "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit," Objective 5; and

b. Ensure that no more than 25% of the forested area within 50 m of the timbered edge of Pocket, Lawnchair, Sedge and Beaver Lakes[1] in the Sayward Landscape Unit will be less than 5 m in height.

6.5 Fish Habitat in Fisheries Sensitive Watersheds

OBJECTIVE SOURCE: FISH HABITAT IN FISHERIES SENSITIVE WATERSHEDS		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 582/2004 ss. 14(1) and 14(2)	Order – Fisheries Sensitive Watersheds – Vancouver Island, Schedule B	December 28, 2005
For each of the Fisheries Sensitive Watersheds identified by this Order, the objective is to provide, within the normal forest rotation, special management of the amount, timing, and distribution of primary forest activities, in order to: *i. conserve the natural hydrological conditions, natural stream bed dynamics and integrity of stream channels in the Fisheries Sensitive Watershed;* *ii. conserve the quality, quantity and timing of water flows required by fish in the Fisheries Sensitive Watershed, and* *iii. prevent the cumulative hydrological effects of primary forest activities in the Fisheries Sensitive Watershed from resulting in a material adverse impact on the fish habitat of the watershed.*		

Definitions for the purposes of s. 6.5 of this FSP

"**Equivalent Clear-Cut Area (ECA)**" means, for the purposes of tracking ECA, the R1b hydrologic recovery curve from TR-032[2] will be applied to harvested stands and cumulated over the total watershed area.

"**Hydrologic Evaluation**" is an evaluation form prepared by a qualified professional, that addresses site-specific hydrologic considerations and practices including terrain stability, riparian condition, roads, and streams flows for cutblocks or groups of cutblocks in a Fisheries Sensitive Watershed. The **Hydrologic Evaluation** will be consistent with the applicable **Watershed Assessment**.

"**Watershed Assessment**" means an assessment prepared by a qualified professional to investigate watershed hydrologic and geomorphic processes and provide guidance for forest management activities and is consistent with the EGBC/ABCFP Joint Professional Practice Guidelines, Watershed Assessment and Management of Hydrologic and Geomorphic Risk in the Forest Industry, v.1.0 (2020). A watershed assessment will be consistent with Fisheries Sensitive Watershed objectives.

Strategy – FPPR s. 8.1

[1] The lakes listed are those from "Establishing Riparian Reserve Zones and Riparian Management Zones for Lakes" (February 26, 2003) that are within FDU 1.

[2] Hudson, R., and G. Horel. "An operational method of assessing hydrologic recovery for Vancouver Island and south coastal BC." Res. Sec., Coast For. Reg., BC Min. For., Nanaimo, BC. Technical Report TR-032/2007.

1. For the purposes of **FPPR** s. 8.1 and to comply with the "Order – Fisheries Sensitive Watersheds – Vancouver Island, Schedule B", as a **Strategy** within the Memekay Fisheries Sensitive Watershed, each **Holder** will:
    1. Complete a **Watershed Assessment** if **Primary Forest Activities** are planned in the Fisheries Sensitive Watershed during the term of this **FSP**;
    2. Complete a **Hydrologic Evaluation** for a proposed cutblock or group of cutblocks; and
    3. Conduct **Primary Forest Activities** in a manner that is consistent with the recommendations in the applicable **Watershed Assessment** and **Hydrologic Evaluation**.

6.6 Water in Community Watersheds

OBJECTIVE SOURCE: WATER IN COMMUNITY WATERSHEDS		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 36/2023	FPPR s. 8.2	February 13, 2023

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.

Definitions for the purposes s. 6.6 of this FSP

"**Equivalent Clear-Cut Area (ECA)**" means, for the purposes of tracking ECA, the R1b hydrologic recovery curve from TR-032[3] will be applied to harvested stands and cumulated over the total watershed area.

"**Hydrologic Evaluation**" is an evaluation form prepared by a qualified professional, that addresses site-specific hydrologic considerations and practices including terrain stability, riparian condition, roads, and streams flows for cutblocks or groups of cutblocks in a Community Watershed. The **Hydrologic Evaluation** will be consistent with the applicable **Watershed Assessment**.

"**Watershed Assessment**" means an assessment prepared by a qualified professional to investigate watershed hydrologic and geomorphic processes and provide guidance for forest

[3] Hudson, R. and G. Horel, 2007.

management activities and is consistent with the EGBC/ABCFP Joint Professional Practice Guidelines, Watershed Assessment and Management of Hydrologic and Geomorphic Risk in the Forest Industry, v.1.0 (2020). A **Watershed Assessment** will be consistent with applicable Community Watershed objectives.

Strategy – FPPR s. 8.2

1. To comply with **FPPR** s. 8.2, as a **Strategy**, in the Newcastle Creek Community Watershed, each **Holder** will:
    a. Complete a **Watershed Assessment** if **Primary Forest Activities** are planned in the Community Watershed during the term of this **FSP**;
    b. Complete a **Hydrologic Evaluation** for a proposed cutblock or group of cutblocks; and
    c. Conduct **Primary Forest Activities** in a manner that is consistent with the recommendations in the applicable **Watershed Assessment** and **Hydrologic Evaluation**.

6.7 Wildlife and Biodiversity – Landscape Level

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 36/2023	FPPR s. 9	February 13, 2023
The objective set by government for wildlife and biodiversity at the landscape level is, 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.		

Definitions for the purposes of s. 6.7 of this FSP

"**Adjacent**" has the same meaning as in **FPPR** s. 65(1).

"**Enhanced Forestry Zone (EFZ)**" means a Resource Management Zone (RMZ) established in Section I.B. of the Vancouver Island Land Use Plan – Higher Level Plan Order (VILUP Order).

"**Existing Cutblock**" has the same meaning as in **FPPR** s. 65(1).

"**General Management Zone (GMZ)**" means an RMZ established in Section I.C. of the VILUP Order.

"**New Cutblock**" has the same meaning as in **FPPR** s. 65(1).

"**Non-Conforming Portion**" means an area within an existing cutblock on which the applicable stocking and height requirements in s. 6.7.1.1 paragraph 3, s. 6.7.1.2 paragraph 3, or s. 6.7.1.3 paragraph 3, of this **FSP**, have not been met.

"Special Management Zone (SMZ)" means an RMZ established in Section I.A. of the VILUP Order.

"**VILUP Order**" means the "Vancouver Island Land Use Plan – Higher Level Plan Order" (2000).

6.7.1 Cutblock Size and Adjacency Limits

6.7.1.1 Special Management Zones

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: CUTBLOCK SIZE AND ADJACENCY LIMITS		
Authority	**Category/Source**	**Effective Date of Objective**
FPC ss. 3(1), 3(2) and 9.1	VILUP Order Objectives 1(b) and (c), 2	December 1, 2000

1. Sustain forest ecosystem structure and function in SMZs, by:
- *b. retaining, within cutblocks[4], structural forest attributes and elements with important biodiversity functions[5], and*
- *c. applying a variety of silvicultural systems, patch sizes and patch shapes across the zone, subject to a maximum cutblock size of 5 ha if clear-cut, clearcut with reserves or seed tree silvicultural systems are applied, and 40 ha if shelterwood, selection or retention silvicultural systems are applied.*

2. Despite subsection 1(c) above, cutblocks larger than 5 or 40 ha, as the case may be, may be approved if harvesting is being carried out to recover timber that was damaged by fire, insects, wind or other similar events and wherever possible, the cutblock incorporates structural characteristics of natural disturbances.

Footnote 4: Within cutblocks: generally, means non-contiguous with cutblock boundaries.

Footnote 5: This includes, but is not limited to snags, wildlife trees, and downed logs.

Strategy – Special Management Zones

1. In **Special Management Zones**, for the purposes of **FPPR** s. 12.4(1), as a **Strategy**, each **Holder**:
   a. Adopts **VILUP Order** Objectives 1(c) and 2 for the net area to be reforested within a cutblock; and
   b. Where cutblocks are larger than 5 ha, each **Holder** will implement **VILUP Order** Objective 1(b) by applying a cutblock configuration consistent with **FPPR** s. 64(4);
2. In **Special Management Zones**, for the purposes of **FPPR** s. 12.4(2), as a **Strategy**, each **Holder** 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 s. 3 of this **Strategy**, 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 s. 1 of this **Strategy**;

   and
3. For the purposes of s. 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 100 trees per ha on the area is a minimum of 3 m and
      i. Is stocked in accordance with the applicable stocking standards for that cutblock; or

ii. Is stocked with at least 500 trees per ha of a commercially valuable species that are at least 1.3 m in height;

or

b. The part of the net area to be reforest 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 100 trees per ha on the area is a minimum of 3 m; and
   iii. Is stocked
      I. In accordance with the applicable stocking standards for that cutblock; or
      II. With at least 500 trees per ha of a commercially valuable species that are at least 1.3 m in height.

6.7.1.2 General Management Zones

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: CUTBLOCK SIZE AND ADJACENCY LIMITS		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 14/2004	FPPR s. 12.4	January 31, 2004
(1) An agreement holder who is required to prepare a forest stewardship plan is exempt from section 64 (1) if the person *(a)prepares and submits to the minister the proposed plan, including an intended result or strategy for wildlife and biodiversity at the landscape level set out in section 9, in relation to the areas of primary forest activity under the plan, and* *(b)receives the minister's approval to the plan.* *(2) An agreement holder who is required to prepare a forest stewardship plan is exempt from section 65 (2) if the person* *(a)prepares and submits to the minister the proposed plan, including an intended result or strategy for wildlife and biodiversity at the landscape level set out in section 9, in relation to the areas of primary forest activity under the plan, and* *(b)receives the minister's approval to the plan.*		
FPC s. 4	Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit, Objective 6	July 1, 2003
To establish a patch size objective and pursue enhanced timber harvesting opportunities, within areas not subject to integrated resource management (i.e., ungulate winter ranges, elk hiding cover areas, old growth management areas, recreation resource units, visually sensitive landscapes, recreation constraint areas, lakeshore management zones, and designated community watersheds) and as shown as Non-constraint Areas on the Sayward Landscape Unit map titled, Non-constraint Areas, by allowing cutblocks up to, but not exceeding 80 ha in size.		

<u>Strategy – General Management Zones</u>

1. In **General Management Zones**, for the purposes of **FPPR** s. 12.4(1), as a **Strategy**, each **Holder** adopts **FPPR** s. 64(1), except:

a. In the Sayward Landscape Unit Plan area in the **FDU**, each **Holder** adopts Objective 6 of the 'Order to Establish a Landscape Unit and Objective – Sayward Landscape Unit';

2. In **General Management Zones**, for the purposes of **FPPR** s. 12.4(2), as a **Strategy**, each **Holder** 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 s. 3 of this **Strategy**, 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 s. 1 of this **Strategy**;

and

3. For the purposes of s. 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 100 trees per ha on the area is a minimum of 3 m and
      i. Is stocked in accordance with the applicable stocking standards for that cutblock; or
      ii. Is stocked with at least 500 trees per ha of a commercially valuable species that are at least 1.3 m in height;

   or

   b. The part of the net area to be reforest 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 100 trees per ha on the area is a minimum of 3 m; and
      iii. Is stocked
         I. In accordance with the applicable stocking standards for that cutblock; or
         II. With at least 500 trees per ha of a commercially valuable species that are at least 1.3 m in height.

6.7.1.3 Enhanced Forest Management Zones

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: CUTBLOCK SIZE AND ADJACENCY LIMITS		
Authority	**Category/Source**	**Effective Date of Objective**
FPC ss. 3(1), 3(2) and 9.1	VILUP Order Objectives 7, 8	December 1, 2000
7. To increase the short-term availability of timber, *a. a cutblock may be larger than 40 ha pursuant to section 11(2)(a) of the OPR, and* *b. pursuant to section 68(4) of the OPR, a cutblock is greened-up if it is adequately stocked and the average height of those trees that are* *i. the tallest tree in each 0.01 ha plot included in a representative sample, and*		

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: CUTBLOCK SIZE AND ADJACENCY LIMITS		
Authority	**Category/Source**	**Effective Date of Objective**
ii. a commercially valuable species or other species acceptable to the district manager is at least 1.3 meters; *unless the district manager determines that a cutblock referred to under (a) or (b) would significantly impact specific hydrological, wildlife, biodiversity, scenic or recreation values.* *8. Avoid or mitigate adverse hydrological impacts, which may result from the practices referred to in objective 7, in watersheds with significant watershed sensitivity and significant fisheries values, as determined by the district manager and designated environment official.*		

Definitions for the purposes of s. 6.7.1.3 of this FSP

"**Hydrologic Evaluation**" is an evaluation form prepared by a qualified professional, that addresses site-specific hydrologic considerations and practices including terrain stability, riparian condition, roads, and streams flows for cutblocks or groups of cutblocks that do not conform to **FPPR** s. 64(1)(a) or **FPPR** s. 65(2), in an **Enhanced Forestry Zone**. The **Hydrologic Evaluation** will be consistent with the applicable **Watershed Assessment**.

"**Retention Silvicultural System**" means a silvicultural system that is designed to:

a. retain individual trees or groups of trees to maintain structural diversity over the area of the cutblock for at least one rotation, and
b. leave more than half the total area of the cutblock within one tree height from the base of a tree or group of trees, whether or not the tree or group of trees is inside the cutblock.

"**Watershed Assessment**" means an assessment prepared by a qualified professional to investigate watershed hydrologic and geomorphic processes and provide guidance for forest management activities and is consistent with the EGBC/ABCFP Joint Professional Practice Guidelines, Watershed Assessment and Management of Hydrologic and Geomorphic Risk in the Forest Industry, v.1.0 (2020).

Strategy – Enhanced Forestry Zones

1. In **Enhanced Forestry Zones**, for the purposes of **FPPR** s. 12.4(1), as a **Strategy**, to increase the short-term availability of timber, a cutblock may be larger than 40 ha, provided that the **Holder** conducts **Primary Forest Activities** in a manner consistent with:
    a. A **Retention Silvicultural System**; and
    b. Practice recommendations prescribed in the applicable **Hydrologic Evaluation**.
2. In **Enhanced Forest Management Zones**, for the purposes of **FPPR** s. 12.4(2), as a **Strategy**, each **Holder** 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 s. 3 of this **Strategy**; 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 s. 1 of this **Strategy**.
3. For the purposes of s. 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 100 trees per ha on the area is a minimum of 1.3 m and
    i. Is stocked in accordance with the applicable stocking standards for that cutblock; or
    ii. Is stocked with at least 500 trees per ha of a commercially valuable species;

or

b. The part of the net area to be reforest 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 100 trees per ha on the area is a minimum of 1.3 m; and
    iii. Is stocked
        I. In accordance with the applicable stocking standards for that cutblock; or
        II. With at least 500 trees per ha of a commercially valuable species.

6.7.2 Mature and Old Seral Stages – Special Management Zones

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: MATURE AND OLD SERAL STAGES – SPECIAL MANAGEMENT ZONES

Authority	Category/Source	Effective Date of Objective
FPC ss. 3(1), 3(2) and 9.1	VILUP Order, Objective 1(a)	October 24, 2000

1. Sustain forest ecosystem structure and function in SMZs, by:
a) creating or maintaining stand structures and forest attributes associated with mature and old forests, subject to the following:
i. the target for mature seral forest should range between one quarter to one third of the forested area of each SMZ; and
ii. in SMZs where the area of mature forest is currently less than the mature target range referred to in (I) above, the target amount of mature forest must be in place within 50 years.

Mature and Old Forest in FDU 1, SMZ 11 (based on VRI data, 2020 reference year)

BEC Zone	*Mature and Old Forest*	*Total Forest Management Land Base*	*Proportion of Mature and Old Forest*
CWH	*3899*	*6797*	
MH	*1417*	*1575*	
Total	*5316*	*8372*	*63%*

Definitions for the Purposes of s. 6.7.2 of this FSP

"**Mature**" means forest stands 80-250 years old in the CWH zone, and 120-250 years old in the MH zone.

"**Old**" means forest stands greater than 250 years old.

Strategy – VILUP Order Objective 1(a)

1. For TFL 64:
    a. As a **Strategy**, each **Holder** adopts VILUP Order Objective 1(a) in that portion of SMZ 11 within the FDU area;

    and

2. For Pacific TSA Block 18:
    a. As a **Strategy**, each **Holder** adopts VILUP Order Objective 1(a) as a **Strategy** in SMZ 8 within the FDU area; and
    b. Prior to harvest, each **Holder** will consult with the holders of the BCTS Pacific Maritime FSP #943 or its successor plan to meet this **Strategy**.

6.7.3 Late Successional Habitat Elements and Attributes of Biodiversity – Special Management Zones

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: LATE SUCCESSIONAL HABITAT ELEMENTS AND ATTRIBUTES OF BIODIVERSITY – SPECIAL MANAGEMENT ZONES		
Authority	**Category/Source**	**Effective Date of Objective**
FPC ss. 3(1), 3(2) and 9.1	VILUP Order, Objectives 4 and 5	October 24, 2000
4. Maintain late-successional habitat elements and attributes of biodiversity in forested ecosystems with emphasis on regionally rare and underrepresented ecosystems, by retaining old seral forest at the site series/surrogate level of representation. *5. Retain late-successional habitat elements and attributes of biodiversity in patches of variable size.*		
See analysis table in Appendix 2.		

Definitions for the purposes of s. 6.7.3 of this FSP

"**Late Successional Habitat Elements**" includes but is not limited to large diameter (> 60 cm) live, decaying and dead standing trees (providing nest and cavity sites); downed wood, including large diameter pieces (50 to 150 cm); deciduous broad-leaved trees, both in riparian and upland areas.[4]

"**Mappable**" means a minimum polygon size with a leading site series of 0.25 ha, or 1 cm^2 on a 1:5,000 scale map.

"**Regionally Rare Ecosystem**" means red and blue listed plant communities as defined by the BC Conservation Data Centre.

"**Underrepresented Ecosystem**" means any site series that is less than 2% of the special management zone forest management landbase.

[4] Footnote 8, "Vancouver Island Land Use Plan, Higher Level Plan Order".

Strategy – VILUP Order, Objective 4 and 5

1. As a **Strategy**, each **Holder** adopts VILUP Order Objective 4 in that portion of SMZ 11 in the **FDU**, subject to the following:
    a. Approved and proposed Old Growth Management Areas (OGMAs), stand level retention and the non-contributing land-base (NCLB) listed in Appendix 2, address the objectives, subject to the following conditions:
        i. The analysis in Appendix 2 based on current **VRI** data and Provincial **TEM**; and
        ii. Where the analysis data in Appendix 2 shows a deficit under the target amount, including proposed OGMAs, harvesting will not take place in a **Mappable Regionally Rare** or **Underrepresented Ecosystem**, if doing so will result in an area below the target amount, when deducted from the total, including proposed OGMAs, for that site series in the analysis in Appendix 2;
        iii. Site plan field data must be collected by or under the direction of a qualified registered professional that has received training in the identification of **Regionally Rare** or **Underrepresented Ecosystem**, with special emphasis on CWHvm1-04, CWHvm1-06, CWHvm1-08 and CWHvm2-11 site series;
        iv. Field data collection may be used to revise and recruit areas to the table amounts in Appendix 2; and
        v. Despite s. 1.a.ii, right-of-way clearing and road construction may occur for access through a **Regionally Rare** or **Underrepresented Ecosystem** that is below the target amount in the analysis, if no other practicable option exists.
2. For the purposes of VILUP Order, Objective 5, each **Holder** will, as a **Strategy** in that portion of SMZ 11 in the **FDU**, incorporate **Late Successional Habitat Elements** in wildlife tree retention areas where **Late Successional Habitat Elements** are within or immediately adjacent to a proposed cutblock.

6.7.4 Old Growth Management Areas (OGMAs)

6.7.4.1 Johnstone Strait Order

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: OLD GROWTH MANAGEMENT AREAS		
Authority	**Category/Source**	**Effective Date of Objective**
Land Act s. 93.4	Land Use Objectives for Old Growth Management Areas in Tsitika, Naka, Adam-Eve, White, and Salmon Landscape Units in the Campbell River District, Part 2	July 26, 2010
1. Maintain or recruit old growth forests in established Old Growth Management Areas, as shown on the map attached as Schedule 1, subject to subsections (2) to (6) below. *2. Despite subsection (1), timber harvesting and road or bridge construction are permitted within OGMAs, provided that:* *i. the area of the OGMA that is subject to timber harvesting or road or bridge construction does not exceed the greater of one hectare or 10% of the area of the OGMA,* *ii. replacement forest is identified which is*		

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: OLD GROWTH MANAGEMENT AREAS		
Authority	**Category/Source**	**Effective Date of Objective**

i. biologically suitable
ii. of equivalent age, structure, and area, and
iii. situated in order of priority, either immediately adjacent to the OGMA, or adjacent to another OGMA in the same variant and landscape unit as the existing OGMA, and

iii. road or bridge construction, if applicable, is required to access resource values beyond or adjacent to the OGMA and no other practicable option for road or bridge location exists.

3. *For the purposes of subsections (2) (b) and (c), as an alternative to identifying replacement area, a temporary road or bridge site may be permanently deactivated and rehabilitated within four years after construction.*
4. *Within OGMAs, the following activities are permitted:*
   a) *First Nations traditional use of trees or understory plants.*
   b) *Topping or pruning of trees along boundaries to improve wind firmness.*
   c) *Timber harvesting to prevent the spread of insect infestations or diseases that pose 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.*
   d) *Road maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of way for safety purposes.*
   e) *Felling for guyline clearance, tailhold anchor trees, or danger trees along cutblock boundaries or within the right-of-way on new road/bridge alignments to meet safety requirements.*
   f) *Silvicultural habitat enhancement in recruitment OGMAs.*
   g) *Trail and site maintenance or development, and silvicultural treatments to address public safety associated with the management and operation of recreation sites and trails.*
5. *Replacement forest is required if the total area of an OGMA that is subject to the activities pursuant to subsection (4) exceeds the greater of one hectare or 10% of the area of the OGMA. Replacement forest must be biologically suitable, of equivalent age, structure and area, and situated, in order of priority, either immediately adjacent to the OGMA, or adjacent to another OGMA in the same variant and landscape unit as the OGMA.*
6. *OGMA adjustments and replacements made in accordance with subsections (2) to (5) must be documented and submitted as digital spatial data to the delegated decision maker at the end of each calendar year.*

<u>Strategy – "Land Use Objectives for Old Growth Management Areas in Tsitika, Naka, Adam-Eve, White, and Salmon Landscape Units in the Campbell River District", Part 2</u>

1. As a **Strategy**, each **Holder** will comply with Part 2 of the document titled "Land Use Objectives Old Growth Management Areas in Tsitika, Naka, Adam-Eve, White, and Salmon Landscape Units in the Campbell River District".

6.7.4.2 Sayward Landscape Unit Order

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: OLD GROWTH MANAGEMENT AREAS		
Authority	**Category/Source**	**Effective Date of Objective**
FPC s. 4	Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit, Objective 1	July 1, 2003

1. *Maintain or recruit old growth forest attributes in designated old growth management areas (OGMA, OGMA/UWR for Deer, and OGMA/UWR for Elk), as shown on the attached Sayward Landscape Unit map, titled Biodiversity and Wildlife. 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 sections 2 and 3 below.*
2. *The Delegated Decision Maker (DDM) may allow operations to occur within an OGMA that are not to be established as UWR for Deer or Elk 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 if no other practicable option exists.*
    3. *Partial-cut timber harvesting within immature (<100 years old) portions of OGMAs, where it can be demonstrated that harvesting will accelerate development of old growth forest attributes and improve the stand for biodiversity purposes, without compromising other resource values.*

3. *The following do not require the approval of the Delegated Decision Maker before proceeding:*
    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 live wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements. These trees are to be retained on site for coarse woody debris.*
    3. *Intrusions, less than 0.5 hectare in size for OGMAs that are not to established as UWR for Deer or Elk.*
    4. *OGMAs that are not to be established as UWR for Deer or Elk that are >10 ha in size may be modified for operational reasons provided that replacement OGMA of like 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 <10 ha,*
        - *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 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.*

1. As a **Strategy**, each **Holder** will comply with Objective 1 of the "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit".

6.8 Wildlife and Biodiversity – Stand Level

6.8.1 Wildlife Tree Retention

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – STAND LEVEL: WILDLIFE TREE RETENTION		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 36/2023	FPPR s. 9.1	February 13, 2023
The objective set by government for wildlife and biodiversity at the stand level is, to retain wildlife trees.		
FPC s. 4	Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit, Objective 2	July 1, 2003

Maintain stand level structural diversity by retaining wildlife tree patches (WTP). Cutblocks for which harvesting has been completed by each licensee by tenure will maintain adequate amounts of wildlife tree patches to ensure that over any 5-year period, commencing on the date the objectives are established, the target percentage as noted in Table A is achieved.

In addition:

1. *WTPs must be well distributed across the BEC subzone or variant.*
2. *No timber harvesting, including salvage or single tree selection, is to occur within Wildlife Tree Patches.*
3. *WTPs must include, if present, live, or dead veteran trees (excluding danger trees), or remnant old growth patches.*
4. *WTPs must include larger trees for the stand and any existing moderate to high value wildlife trees (excluding danger trees).*
5. *BEC subzones and/or variants will be determined by site plan information.*

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

BEC Subzone/Variant	*Wildlife Tree Retention %.*
CWHmm1 (Coastal Western Hemlock, Submontane moist maritime)	*13%*
CWHmm2 (Coastal Western Hemlock, Montane moist maritime)	*10%*
CWHxm (Coastal Western Hemlock Very Dry Maritime)	*14%*
MHmm1 (Mountain Hemlock, Windward moist maritime)	*2%*

Definitions for the Purposes of s. 6.8.1 of this FSP

"**Equivalent Forested Area**" means replacement forest of equivalent age, structure and area that is within or immediately adjacent to the cutblock to which the **WTRA** relates.

"**Mature Seral Condition**" means at least 80 years old in the CWH biogeoclimatic zone, or at least 120 years old in the MH biogeoclimatic zone.[5]

"**WTP**" means a wildlife tree patch established under the *Forest Practices Code of BC Act*. Synonymous with **WTRA** except in s. 3.c, below.

"**WTRA**" means wildlife tree retention area, has the same meaning as in **FPPR** s. 1(1).

Strategy – FPPR ss. 9.1 and 12.5(1-2)

1. For the purposes of **FPPR** s. 12.5(1), as a **Strategy**, each **Holder** will ensure that for each cutblock, the area[6] set aside for a **WTRA**:
    a. Is a minimum of:
        i. 7% of the area of a cutblock; or
        ii. In the Sayward Landscape Unit Plan area:
            I. the amount specified in Objective 2, Table A of the "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit", subject to ecosystem classification information collected during site plan field work; and
            II. **WTRAs** must include, if present, live, or dead veteran trees (excluding danger trees), or remnant old growth patches; and
            III. **WTRAs** must include larger trees for the stand and any existing moderate to high value wildlife trees (excluding danger trees);

    and

    b. Is within or immediately adjacent to the cutblock to which the **WTRA** relates;

    and

2. For the purposes of **FPPR** s.12.5(2), as a **Strategy**, each **Holder** must not harvest timber from a **WTRA** unless the trees on the net area to be reforested of the cutblock to which the wildlife tree retention area relates have reached a **Mature Seral Condition**, except:
    a. Timber may be harvested for establishment of tail holds or guy line tiebacks; and
    b. Danger trees may be felled; and
    c. Where a **Holder** modifies a previously established **WTP** or **WTRA**, the **Holder** will specify a replacement **WTRA** that is an **Equivalent Forested Area** if the modified **WTRA** or **WTP** is reduced below the minimum area requirements listed in s.1 of this **Strategy**;

    and

3. Despite ss.1-2 of this **Strategy**, if a cutblock has been declared free-growing:
    a. The practice requirement in **FPPR** s.67 applies; and
    b. Proposed modifications to a **WTRA** or **WTP** established for a free growing cutblock are subject to an exemption request pursuant to **FPPR** s.91(2).

[5] Biodiversity Guidebook, 1995. p.16. https://www.for.gov.bc.ca/hfd/library/documents/bib19715.pdf.

[6] For the purposes of calculating WTRA requirements, a cutblock is the total of the net area to be reforested and the road area within a cutblock boundary.

6.9 Visual Quality

OBJECTIVE SOURCE: VISUAL QUALITY		
Authority	**Category/Source**	**Effective Date of Objective**
FRPA s. 2(2)(a), GAR s. 7(1), 7(2)	Order – Establishment of Scenic Areas and Visual Quality Objectives for the Campbell River Forest District	December 14, 2005
Pursuant to Section 2(2)(a) of the Forest and Range Practices Act, I have been delegated the authority to establish scenic areas and visual quality objectives. *Pursuant to Section 7(1) of the Government Actions Regulation (GAR), I hereby establish scenic areas for the Campbell River Forest District (CRFD) as depicted by all polygons that have a designated visual quality objective on the attached maps, numbered 1 through 7, titled Campbell River Forest District: Scenic Areas and Visual Quality Objectives, December 14, 2005. These scenic areas reflect adjustments and corrections to the scenic areas originally made known in my letters of October 2, 2001, and February 26, 2003.* *Also, pursuant to Section 7(2) of the GAR, I hereby establish visual quality objectives (VQOs) for the Campbell River Forest District as shown on the attached maps, numbered 1 through 7, titled Campbell River Forest District - Scenic Areas and Visual Quality Objectives, December 14, 2005. These VQOs cancel and replace those established under the Sayward Landscape Unit Plan on February 26, 2003, as well as the October 2, 2001, visual quality classes which were continued as VQOs pursuant to Section 17 of the GAR.* *These VQOs apply as mapped to all Crown lands in the CRFD, and also as mapped to all Schedule A private lands forming part of Forest Act tenures in the CRFD.*		

Strategy – FPPR s. 9.2

1. For the purposes of **FPPR** s. 9.2, as a **Strategy**, each **Holder** will comply with the Categories of Visually Altered Forest Landscape[7] established by the "Order – Establishment of Scenic Areas and Visual Quality Objectives for the Campbell River Forest District" (2005);
2. Where required, a Visual Impact Assessment (VIA) will be conducted according to the 'Visual Impact Assessment Handbook' (2022), as amended from time to time;
3. Each **Holder** will ensure that the recommendations in an applicable VIA are followed to the extent practicable, including mitigation measures such as tree crown modification of timbered edges;
4. The scenic areas and VQOs apply to a road permit or cutting permit as the scenic areas and VQOs were on the date of submission. This **Strategy** applies to new objectives established under **GAR** s. 7 on the effective date of the Order; and
5. If the road or harvesting relates to the harvesting of timber that is damaged or destroyed by fire insects, disease, wind, flooding or other factor, and it is not practicable to meet the established VQO, a **Holder** may make an application for an exemption to the objective under **FPPR** s. 12(7).

[7] As defined in FPPR s. 1.1.

6.10 Cultural Heritage Resources

OBJECTIVE SOURCE: CULTURAL HERITAGE RESOURCES		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 14/2004	FPPR s. 10	January 31, 2004
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.*		

Definitions for the purposes of s. 6.10 of this FSP

"**CHR**" means Cultural Heritage Resource.

"**Cedar**" includes both western red-cedar (*Thuja plicata*) and yellow-cedar (*Chamaecyparis nootkatensis*)

"**First Nation CHR Information**" means information regarding a potentially affected CHR within the **FDU** provided to each **Holder** by a First Nation affected by this **FSP**:

a. Prior to review and comment pertaining to the proposed form of this **FSP** under **FPPR** s. 20;
b. During review and comment pertaining to the proposed form of this **FSP**, in accordance **FPPR** s. 21; or
c. During the term of this **FSP**.

"**Potentially Affected CHR**" means a Cultural Heritage Resource that is:

a. Subject to **FPPR** s. 10;
b. Not conserved or protected by other arrangements;
c. Capable of being addressed in the context of this **FSP**; and
d. Important, valuable and scarce, as determined by government:
    i. Based on traditional use by an aboriginal people, and
    ii. From consultation with a First Nation regarding **First Nation CHR Information**, that government has provided.

Strategy – FPPR s. 10

1. For the purposes of **FPPR** s. 10, as a **Strategy**, each **Holder** will:
    a. At least once each calendar year, for each First Nation with asserted traditional territory within the **FDU**:
        i. Identify the approximate location of planned cutblocks and roads, if any, to which this **FSP** applies that are within that asserted traditional territory and not previously identified by each **Holder** to that First Nation;
        ii. Request from that First Nation information, regarding any **Potentially Affected CHR** and the historical extent of traditional use, not previously provided by the First Nation to each **Holder;** and

iii. If information has been identified under s. 1.b of this **Strategy**, request a meeting or communicate with that First Nation to review the access, conservation or, if necessary, protection of the **Potentially Affected CHR**;

and

iv. Provide to the Crown any **First Nation CHR Information** not previously provided by each **Holder**;

b. Plant or promote natural regeneration of **Cedar** as a component of future stands on areas where:

i. Each **Holder** has an obligation under **FRPA** s. 29(1);

ii. **Cedar** is ecologically suited;

and

c. If requested by a First Nation with asserted traditional territory within the **FDU** that has historically utilized western red-cedar or yellow-cedar from that traditional territory for making paddles, masks, totems, canoes or other similar traditional use items, and to the extent of such historical use, develop **Cedar** strategies and assist that First Nation in identifying or locating **Cedar** trees and obtaining logs suitable for such purpose.

6.11 FRPA Value: Recreation

BACKGROUND INFORMATION: RECREATION		
Authority	**Category/Source**	**Effective Date of Objective**
FRPA s. 56	FRPA Value	November 21, 2002

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.

FRPA Value – Recreation

1. Each **Holder** manages **FRPA** s. 56 and **FPC** s. 102 established sites in accordance with the **FRPA** s. 56 or grandfathered **FPC** s. 102 agreement for the site, as amended from time to time. Note that recreation resource features have been established in the Campbell River Natural Resource District. See s. 6.12 of this **FSP**.

6.12 FRPA Value: Resource Features

BACKGROUND INFORMATION: RESOURCE FEATURES		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 582/2004	Order to Identify Recreation Resource Features for the Campbell River Forest District	April 12, 2006
BC Reg. 582/2004	Order to Identify Karst Resource Features for the Campbell River Forest District	June 30, 2007
Pursuant to Section 5 of the Government Actions Regulation of the Forest and Range Practices Act (FRP A), I hereby identify the following surface or subsurface elements of a karst system as resource features wherever they are found within the Campbell River Forest District, effective June 30, 2007. • *Karst caves* • *Significant surface karst features* • *The important features and elements within very high or high vulnerability karst terrain*		
BC Reg. 580/2004	FPPR s. 70(1)	January 31, 2004
An authorized person who carries out a primary forest activity must ensure that the primary forest activity does not damage or render ineffective a resource feature.		

FRPA Value – Resource Features

1. Resource features include practice requirements that are not within the scope of an FSP and are mentioned here only as background information supporting this **FSP**. No objectives are specified in resource feature orders; therefore, **Results** or **Strategies** are not required. Current Orders are listed in the objective source table above. Each **Holder** will ensure that **Primary Forest Activities** do not damage or render ineffective a resource feature subject to an Order.

7 FRPA Measures

7.1 Invasive Plants

BACKGROUND INFORMATION: INVASIVE PLANTS		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 580/2004	FPPR s. 17	January 31, 2004
For the purpose of section 47 [invasive plants] of the Act, a person who prepares a forest stewardship plan must specify measures in the plan to prevent the introduction or spread of species of plants that are invasive plants under the Invasive Plants Regulation, if the introduction or spread is likely to be the result of the person's forest practices.		

Table 7.1 – Priority Species[8]

Priority	Species
Prevent	Yellow Starthistle
Provincial EDRR	Perennial Pepperweed, Slender False Brome, Eggleaf Spurge
Provincial Containment	Giant Hogweed, Teasel
Regional Containment/Control	Blueweed, Common Tansy, Gorse, Hoary Alyssum, Knotweeds (Japanese, Giant, Bohemian, Himalayan), Leafy Spurge, Marsh Plume Thistle, Purple Loosestrife, Scotch Broom, Spotted Knapweed, Teasel, Yellow Flag Iris
Management	Orange Hawkweed, Scentless Chamomile, Scotch Thistle, Sulphur Cinquefoil, Tansy Ragwort

Table 7.2 – Priority Categories and Provincial Objectives for Invasive Plants[9]

Priority Category	Category Description	Management Objective
Prevent	Species determined to be high risk and not yet established.	Prevent introduction and establishment.
Provincial EDRR	Species is high risk and is new to the province	Eradication.
Provincial Containment	Species is high risk with limited extent but significant potential to spread.	Prevent further expansion into new areas with the goal of reducing the overall extent.
Regional Containment/Control	Species is high risk and well established, or medium risk with high potential to spread.	Prevent further expansion into new areas within the region through establishment of occurrences outside the line to control
Management	Species is more widespread by may be of concern in specific situations with certain high values – e.g. conservation lands or specific agriculture crops.	Reduce the invasive species impacts locally or regionally, where resources are available.

Definitions for the purposes Measures in s. 7.1 of this FSP

"**Applicable Area**" means an area of exposed mineral soil that is at least a contiguous 0.1 ha.

"**Priority Categories**" means the priority categories listed in Table 7.2 of s. 7.1 of this **FSP**.

[8] Correlated list between the Invasive Plants Regulation and the document titled 'Provincial Priority Invasive Species – BC Inter-Ministry Invasive Species Working Group' (April 2026), on the effective date of this FSP.

[9] Adopted from the definitions contained in the document titled 'Provincial Priority Invasive Species – BC Inter-Ministry Invasive Species Working Group' (April 2026).

"**Priority Species**" means those invasive species listed in Table 7.1 of s. 7.1 of this **FSP**.

Measure – FPPR s. 17

1. For the purposes of **FPPR** s. 17, each **Holder** will, as a **Measure**:
    a. Incorporate known invasive **Priority Species** into development plans and report new sites as they are discovered, by
        i. In the planning process, consulting the map display module of the InvasivesBC online database for known invasive **Priority Species** (www.invasivesbc.gov.bc.ca);
        ii. Distribute information to staff and contractors on **Priority Species** that exist or threaten to establish within the plan area, on an annual basis;
        iii. Monitoring areas for the presence of invasive species while conducting road and cutblock layout, road reactivation surveys, site plan fieldwork, contractor inspections, and silviculture surveys; and
        iv. Reporting new incidences of invasive plants in the company's spatial database and through the Report Invasives or similar technology to the Invasive Alien Plant Program (IAPP) within 30 days of discovery;
    b. Work in uninfested sites before moving to infested sites;
    c. Clean equipment within existing infestations of **Priority Species**, to the extent practicable, before moving to a new work site or region, by
        i. Pressure-washing mud from vehicles and equipment, while preventing run-off from contaminating waterways and riparian areas; or
        ii. Visually inspecting vehicles and equipment and removing lodged plant parts found;
    d. Inspect and ensure fill and erosion-control materials are not taken from sites infested with **Priority Species**;
    e. Direct all contractors and staff to not brush or mow **Priority Species**;
    f. Minimize unnecessary soil disturbance and maintain native vegetation, especially in areas infested with **Priority Species**;
    g. Revegetate a disturbed site that is an **Applicable Area** as soon as possible with certified weed-free Common No.1 Forage Mixture or better; and
    h. Promptly control infestations of **Priority Species** resulting from **Primary Forest Activities**, if in the infestation is a knotweed species, or in the **Prevent**, **Provincial EDRR** or **Provincial Containment Priority Categories**, or after consultation with a Provincial Invasive Species Specialist if in the Regional Containment/Control priority category.

7.2 Natural Range Barriers

BACKGROUND INFORMATION: NATURAL RANGE BARRIERS		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 14/2004	FPPR s. 18	January 31, 2004
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.		

Background Information: Natural Range Barriers		
Authority	**Category/Source**	**Effective Date of Objective**
Existing Agreements under the Range Act with respect of grazing livestock on the effective date of this FSP: ***RAN075062*** *(Salmon River Main).*		

Measure – FPPR s. 18

1. For the purposes of **FPPR** s. 18, as a **Measure**, each **Holder** will:
    a. Each year under the term of this **FSP**, identify any areas within the **FDU** that are subject to or adjacent to agreements under the *Range Act* in respect of grazing livestock;
    b. Inform each of the affected holders of agreements under the *Range Act* of planned harvest and road construction within or adjacent to their agreement; and
    c. Where the affected holder of an agreement under the *Range Act* indicates that the planned harvest and road construction will remove or render ineffective a natural range barrier:
        i. Design cutblocks and roads to mitigate the effect of the removal or ineffectiveness; and
        ii. Carry out **Primary Forest Practices** only if the **Primary Forest Practices** are consistent with the design in s. 1.c.i of this **Measure**.

8 Stocking Standards

Definitions for the purposes of s. 8 of this FSP

"Assessment Area" or **"AA"** means an unmappable area within a standards unit with a uniform site series or phase.

"**Standards Unit**" or "**SU**" has the same meaning as in **FPPR** s. 1(1)

8.1 Application

1. These stocking standards apply to:
    a. areas harvested under this **FSP** within the **FDU**; and
    b. areas identified in a cutblock site plan as the "net area to be reforested", as that term is defined in **FPPR** s. 1(1).

8.2 Situation or Circumstances that Determine Whether Free Growing is Assessed on a Block Basis

Background Information: Situation or Circumstances that Determine Whether Free Growing is Assessed on a Block Basis		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 14/2004	FPPR s. 16(1)	January 31, 2004

BACKGROUND INFORMATION: SITUATION OR CIRCUMSTANCES THAT DETERMINE WHETHER FREE GROWING IS ASSESSED ON A BLOCK BASIS		
Authority	**Category/Source**	**Effective Date of Objective**
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) or section 45 will apply to an area.		
BC Reg. 580/2004	FPPR s. 44(1)	June 25, 2012
A person who has an obligation to establish a free growing stand must establish, for areas that have been identified under section 16 (1) [stocking standards] as areas to which this section will apply, a stand that: *(a) meets the applicable stocking standards set out in the forest stewardship plan for the area, by the applicable regeneration date specified for the area, and* *(b) meets the applicable stocking standards and free growing height set out in the forest stewardship plan for the area by a free growing date that is no more than 20 years from the commencement date, unless the minister permits a later free growing date.*		

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

8.3 Stocking and Related Standards for Stands to which Free Growing Obligations Apply

1. There may be relatively uniform conditions or mosaics (ecosystem complexes), transitional ecosystem sites, and varying site conditions within the net area to be reforested, for each cutblock. The net area to be reforested will be stratified into areas of similar characteristics for the purposes of stocking standards, or **Standards Units** (SUs). A **Standards Unit** will be assigned the applicable stocking standard from Appendix 1.1, based on the dominant ecosystem site series. Management intent will also govern the choice of a stocking standard. The stocking standard includes species, target and minimum stocking levels (TSS and MSS), minimum intertree distance (MITD), and free growing heights.
2. Optionally, to accommodate unmappable site series components in a **Standards Unit**, elements of a stocking standard may be assigned at an **Assessment Area** level.

8.3.1 Species

1. Species selection to determine compliance with **FPPR** s. 44(1) of the **FPPR** will be based on the ecosystem classification and be evaluated at the **SU** or **AA** level. Species which are ecologically suitable and commercially valuable for each site series are listed in Appendix 1.1. All listed species are preferred.

8.3.2 Stocking (Even-Aged Stocking Standards)

8.3.2.1 Target Stocking Standards

1. Target Stocking Standards (TSS) are listed in Appendix 1.1, except where hardwood management is applied under s. 8.4; and
2. TSS is assigned at the **SU** level.

8.3.2.2 Minimum Stocking Standard

1. Minimum Stocking Standards (MSS) are listed in Appendix 1.1, except where hardwood management is applied under s. 8.4; and
2. MSS is assigned at the **SU** level.

8.3.2.3 Minimum Horizontal Intertree Distance

1. Minimum intertree distances (MITDs) are listed in Appendix 1.2, along with application conditions; and
2. MITD may be assigned at the **SU** or **AA** level.

8.3.2.4 Regeneration Date

1. The regeneration date is 6 years.

8.3.2.5 Minimum Free Growing Height

1. The minimum free growing heights listed in Appendix 1.1 will be used to demonstrate that the trees are adapted to the site, are growing well and can reasonably be expected to continue to do so, and
2. Minimum free growing height may be assigned at the **SU** or **AA** level.

8.3.2.6 Damage Criteria at Free Growing

1. Damage criteria at the time of the free growing assessment will be assessed as indicated in FS 660, Section 22[10].

8.3.2.7 Root Disease Control

1. To reduce the impact of root disease, in even-aged management harvest areas infected with Armillaria root disease (*Armillaria ostoyae*) or laminated root rot (*Phellinus weirii*), stump removal may be used to reduce inoculum levels. This activity will be prescribed by a qualified professional according to Figure 1 in "Managing Root Disease in British Columbia".[11] Stump removal will be carried out according to Section 2 found on pp.11-12 of "Managing Root Disease in British Columbia".

8.4 Hardwood Management

1. Red alder will be the leading species for hardwood management, or at least 80% of the TSS component;
2. Stratification of hardwood management areas will follow the principles outlined in the CRIT SWG Hardwood Management Strategy in the Coast Forest Region (July 2011);

[10] "Silviculture Survey Reference", FS 660, Ministry of Forests, 2023.

[11] "Managing Root Disease in British Columbia", Ministry of Forests, Lands, Natural Resource Operations and Rural Development, 2018. https://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/forestry/forest-health/forest-health-docs/root-disease-docs/rootdiseaseguidebookjune2018_4.pdf

DRAFT

3. The target stocking standard (TSS) is 1500 stems per hectare, and the minimum stocking standard is 1000 stems per hectare, except 20% of an **SU** may have an MSS of 800 stems per hectare as an approved variation; and
4. Damage criteria at the time of the free growing assessment will be assessed as indicated in FS 660, Section 23.

8.5 Intermediate Cutting

BACKGROUND INFORMATION: INTERMEDIATE CUTTING		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 14/2004	FPPR s. 16(4)	January 31, 2004
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.		

Stocking Standard for Intermediate Cutting (FPPR ss.44(4))

1. Where a **Holder** of this **FSP** applies intermediate cutting in an area within the **FDU**, that Holder will not cause stocking within that area to fall below 40 m^2/ha for a period of at least 12 months after harvest completion;
2. Intermediate cutting:
    a. Will be applied to conifer management only;
    b. Will not be applied on low productivity sites (i.e. site series where even-aged TSS is listed as 400 sph or less);
    c. Be carried out on a maximum of 50 ha per year in the **FDU**, on average during the term of this **FSP**;
3. Openings greater than 0.1 ha will be managed using even-aged stocking standards;
4. Intermediate cutting may only be applied in:
    a. Areas where harvest is constrained by visual quality objectives of retention or preservation under s. 6.9 of this **FSP**;
    b. In riparian management zones, where prescribed in a site plan, consistent with s.6.4.2 of this **FSP**; or
    c. In situations where intermediate cutting would be considered a public good, after consultation with government and affected stakeholders;
5. Where intermediate cutting is applied, the residual stand will consist of ecologically suitable species that will be viable for future harvest opportunities, as listed in Appendix 1.3 of this **FSP**; and
6. Layer 1 FG Damage Criteria in FS 660, Section 27, will be applied to assess the residual stand; and
7. A stocking standard ID will be assigned for CWHvm1-101, and additional site series may be added to the standard, as required, using the approved variation mechanism. Suitable species will match the species listed in Appendix 1.3.

DRAFT

9 Signature(s) (FRPA Act s. 5(3))

CERTIFICATION OF SIGNING PROFESSIONAL

I certify that the work described herein fulfills the standards expected of a member of the Association of British Columbia Forest Professionals and that I did personally supervise the work.

FSP signed

Bruce Vinnedge, RPF
Senior Silviculture Forester

Date

LICENSEE SIGNATURE

Haydn Yeomans, RPF
TFL Forester, LKSM

Date

DRAFT

Appendix 1 – Stocking Standards

The stocking standards IDs (SSIDs) in RESULTS are:

Even-aged conifer management: **xxxxxxx**

Even-aged hardwood management: **xxxxxxx**

Intermediate Cut: **xxxxxxx**

Species selection will occur at the Standards Unit level based on the dominant site series in the SU or AA. Ecologically suitable species for each site series are listed in the table below. Appendix 1.1 defines even-aged stocking standards for use in RESULTS.

Appendix 1.1 – Species Selection and Stocking Targets

BEC	Site Series	TSS	MSS	Species Selection	Minimum Free Growing Heights
CWHdm2	101[H]	1000	500	Bg, Cw, Fd, Hw, Pw	Bg-3.0, Cw-1.5, Fd-3.0, Hw-2.0, Pw-2.5
	102*	400	200	Fd, Pl	Fd-2.0, Pl-1.25
	103	400	200	Fd, Pl	Fd-2.0, Pl-1.25
	104	800	400	Cw, Fd, Hw, Pw	Cw-1.0, Fd-2.0, Hw-1.5, Pw-1.5
	105	1000	500	Cw, Fd, Hw, Pw	Cw-1.5, Fd-3.0, Hw-2.0, Pw-2.5
	110[H]	1000	500	Bg[1], Cw, Fd, Hw, Pw, Ss[7,9]	Bg-3.5, Cw-2.0, Fd-4.0, Hw-1.75, Pw-2.5, Ss-4.0
	111[H]	1000	500	Bg[1], Cw, Fd, Hw, Ss[9]	Bg-3.0, Cw-1.5, Fd-3.0, Hw-2.0, Ss-3.0
	112[H]	1000	500	Bg[1], Cw, Fd, Hw, Pw, Ss[9]	Bg-3.5, Cw-2.0, Fd-4.0, Hw-1.75, Pw-3.5, Ss-4.0
	113[H,*]	1000	500	Bg, Cw, Fd[8], Ss	Bg-3.5, Cw-2.0, Fd-4.0, Ss-4.0
	Wb*	400	200	Cw[8], Pl[8]	Cw-1.0, Pl-1.25
	Ws*	800	400	Cw[8], Hw[8,9], Pw[8], Ss[8]	Cw-1.0, Hw-1.5, Pw-2.5, Ss-1.5
CWHmm1	101[H]	1000	500	Ba[1], Cw, Fd, Hw[2], Pw	Ba-1.5, Cw-1.5, Fd-3.0, Hw-2.0, Pw-3.0

DRAFT

BEC	Site Series	TSS	MSS	Species Selection	Minimum Free Growing Heights
	102*	800	400	Cw, Fd, Pl	Cw-1.0, Fd-2.0, Pl-1.25
	103	800	400	Cw, Fd, Hw[2], Pw	Cw-1.5, Fd-3.0, Hw-2.0, Pw-1.5
	104	1000	500	Ba[1], Cw, Fd, Hw[2], Pw	Ba-1.5, Cw-1.0, Fd-3.0, Hw-3.0, Pw-2.5
	110[H]	1000	500	Ba[1], Cw, Fd, Hw, Pw	Ba-2.0, Cw-2.0, Fd-4.0, Hw-3.0, Pw-3.5
	111	1000	500	Ba[1], Cw, Fd[8], Hw, Pw	Ba-1.5, Cw-1.5, Fd-3.0, Hw-2.0, Pw-3.0
	112[H]	1000	500	Ba[1], Cw, Fd[8], Hw[9]	Ba-3.0, Cw-2.0, Fd-4.0, Hw-2.5
	113[H]	1000	500	Ba[1], Cw, Fd[8], Ss	Ba-1.0, Cw-2.0, Fd-2.0, Ss-4.0
	Wb*	400	200	Cw, Pl	Cw-1.0, Pl-1.25
	Ws*	800	400	Cw, Hw[9], Pw, Ss[8]	Cw-1.0, Hw-1.75, Pw-2.0, Ss-2.0
CWHmm2	101	1000	500	Ba[1], Bp[3], Cw, Fd[5], Hm[6], Hw, Pw[9], Yc	Ba-0.75, Bp-2.25, Cw-1.0, Fd-2.25, Hm-1.0, Hw-1.25, Pw-2.25, Yc-1.25
	102*	800	400	Cw, Fd, Pl	Cw-0.75, Fd-1.5, Pl-1.25
	103	800	400	Cw, Fd, Hm[6], Hw, Yc	Cw-1.5, Fd-2.0, Hm-1.5, Hw-1.0, Yc-1.5
	110	1000	500	Ba[1], Bp[5], Cw, Fd[5], Hm[6], Hw, Pw, Yc	Ba-2.0, Bp-2.0, Cw-2.0, Fd-3.0, Hm-3.0, Hw-3.0, Pw-3.0, Yc-2.0
	111	1000	500	Ba[1], Cw, Fd[5], Hm[6], Hw, Yc	Ba-1.0, Cw-1.5, Fd-2.0, Hm-1.5, Hw-1.5, Yc-1.5
	112	1000	500	Ba[1], Cw, Fd[5], Hm[6], Hw, Pw, Yc	Ba-1.0, Cw-1.25, Fd-3.0, Hm-3.0, Hw-3.0, Pw-3.0, Yc-1.25
	113	1000	500	Ba[1], Cw, Fd[5], Hm[6], Hw, Pw, Yc	Ba-1.0, Cw-1.25, Fd-3.0, Hm-3.0, Hw-3.0, Pw-3.0, Yc-1.25
	Wb*	400	200	Pl, Yc	Pl-1.25, Yc-0.75
	Ws*	800	400	Ba[8], Cw[5], Hm[6], Hw, Pw, Yc	Ba-1.5, Cw-1.5, Hm-1.25, Hw-1.25, Pw-2.5, Yc-1.5
CWHvm1	101[H]	1000	500	Ba[1], Cw, Fd, Hw, Ss[4], Yc[6]	Ba-1.75, Cw-1.5, Fd-3.0, Hw-3.0, Ss-3.0, Yc-1.5
	102*	800	400	Cw, Fd, Hw, Pl, Yc[6]	Cw-1.0, Fd-2.0, Hw-2.0, Pl-1.25, Yc-1.0

DRAFT

BEC	Site Series	TSS	MSS	Species Selection	Minimum Free Growing Heights
	103	800	400	Ba[1,2,4], Cw, Fd, Hw, Pl, Yc[6]	Ba-1.25, Cw-1.0, Fd-2.0, Hw-2.0, Pl-1.25, Yc-1.0
	104	1000	500	Ba[1,2,4], Cw, Fd, Hw, Pl, Yc[6]	Ba-1.75, Cw-1.5, Fd-3.0, Hw-3.0, Pl-1.25, Yc-1.5
	105[H]	1000	500	Ba[1], Cw, Fd, Hw, Ss[4], Yc[6]	Ba-1.75, Cw-1.5, Fd-3.0, Hw-3.0, Ss-3.0, Yc-1.5
	110[H]	1000	500	Ba[1], Cw, Fd, Hw, Ss[4], Yc[6]	Ba-1.75, Cw-1.5, Fd-3.0, Hw-3.0, Ss-3.0, Yc-1.5
	111[H]	1000	500	Ba[1], Cw, Fd[5], Hw, Ss[4], Yc[6]	Ba-1.75, Cw-1.5, Fd-3.0, Hw-3.0, Ss-3.0, Yc-1.5
	112[H]	1000	500	Ba[1], Cw, Fd[8], Hw, Ss[4], Yc[6]	Ba-2.25, Cw-2.0, Fd-4.0, Hw-4.0, Ss-4.0, Yc-2.0
	113	800	400	Cw, Fd[8], Hw, Pl, Ss[4], Yc[6]	Cw-1.0, Fd-3.0, Hw-2.0, Pl-1.25, Yc-1.0
	114[H]	1000	500	Ba[1], Cw, Fd[8], Hw, Ss[4], Yc[6]	Ba-2.25, Cw-2.0, Fd-4.0, Hw-4.0, Ss-4.0, Yc-2.0
	Wb*	400	200	Cw, Pl, Yc[6]	Cw-1.0, Pl-1.25, Yc-1.0
	Ws*	800	400	Cw, Hw, Pl, Ss, Yc[6]	Cw-1.5, Hw-3.0, Pl-1.25, Ss-3.0, Yc-1.5
CWHvm2	101	1000	500	Ba, Bp[3], Cw, Fd, Hm[6], Hw, Pw, Yc	Ba-1.75, Bp-2.25, Cw-1.5, Fd-2.25, Hm-2.0, Hw-2.5, Pw-2.5, Yc-1.5
	102*	400	200	Cw, Fd, Hm[6], Hw, Pl, Yc	Cw-1.0, Fd-1.5, Hm-1.75, Hw-1.75, Pl-1.25, Yc-1.0
	103	800	400	Ba[6], Cw, Fd, Hm[6], Hw, Pw, Pl, Yc	Ba-1.5, Cw-1.0, Fd-1.5, Hm-1.75, Hw-1.75, Pw-2.5, Pl-1.25, Yc-1.0
	104*	800	400	Ba[6], Cw, Hm[6], Hw, Pw, Yc	Ba-1.5, Cw-1.0, Hm-1.75, Hw-1.75, Pw-2.5, Yc-1.0
	105	800	400	Ba, Cw, Fd[5], Hm, Hw, Pl, Pw, Yc	Ba-1.75, Bp-2.25, Cw-1.5, Fd-2.25, Hm-2.0, Hw-2.5, Pw-2.5, Pl-1.5, Yc-1.5
	110	1000	500	Ba, Bp[3], Cw, Fd[5], Hm[6], Hw, Yc	Ba-1.75, Bp-2.25, Cw-1.5, Fd-2.25, Hm-2.5, Hw-2.5, Yc-1.5
	111	1000	500	Ba, Cw, Fd[5], Hm[6], Hw, Yc	Ba-1.75, Cw-1.5, Fd-2.25, Hm-2.5, Hw-2.5, Yc-1.5
	112	1000	500	Ba, Cw, Fd[5], Hm[6], Hw, Yc	Ba-2.25, Cw-2.0, Fd-4.0, Hm-3.5, Hw-3.5, Yc-2.0
	113*	800	400	Ba, Cw, Hm, Hw, Pl, Yc	Ba-1.5, Cw-1.0, Hm-1.75, Hw-1.75, Pl-3.0, Yc-1.0
	114*	600	300	Ba, Cw, Hm, Hw, Yc	Ba-1.5, Cw-1.0, Hm-1.75, Hw-1.75, Yc-1.0

DRAFT

BEC	Site Series	TSS	MSS	Species Selection	Minimum Free Growing Heights
	115*	600	300	Ba, Cw, Hm, Hw, Yc	Ba-1.5, Cw-1.0, Hm-1.75, Hw-1.75, Yc-1.0
	Wb*	400	200	Cw, Hm, Hw, Pl, Yc	Cw-1.0, Hm-0.75, Hw-1.75, Pl-1.25, Yc-1.0
	Ws*	800	400	Cw, Hm, Hw, Yc	Cw-1.0, Hm-1.75, Hw-1.75, Yc-1.0
MHmm1	101	1000	500	Ba, Bp[3], Hm, Hw[5], Pw[4], Yc	Ba-0.6, Bp-1.0, Hm-1.0, Hw-1.0, Pw-1.0, Yc-1.0
	102*	800	400	Ba, Hm, Hw[5], Yc	Ba-0.6, Hm-0.75, Hw-1.0, Yc-0.75
	103	800	400	Ba, Hm, Hw[8], Pw, Yc	Ba-1.0, Hm-1.0, Hw-1.0, Pw-1.0, Yc-1.0
	104	1000	500	Ba, Hm, Hw[8], Pw, Yc	Ba-1.0, Hm-1.0, Hw-1.0, Pw-1.0, Yc-1.0
	110	1000	500	Ba, Bp, Hm, Hw[5], Pw, Yc	Ba-1.0, Bp-1.0, Hm-1.0, Hw-1.0, Pw-1.0, Yc-1.0
	111	1000	500	Ba, Hm, Hw[5], Yc	Ba-0.6, Hm-1.0, Hw-1.0, Yc-1.0
	112	1000	500	Ba, Bp, Hm, Hw[5], Yc	Ba-0.6, Bp-1.0, Hm-1.0, Hw-1.0, Yc-1.0
	Wb*	400	200	Hm, Yc	Hm-0.75, Yc-0.75
	Ws*	800	400	Ba, Hm, Yc	Ba-0.75, Hm-0.75, Yc-0.75

DRAFT

Notes for Appendix 1.1:

Site-Specific Notes

[H] - Refers to site series which may be managed for hardwoods under FSP s. 8.5. Hardwood management may only be applied on nutrient medium or richer sites.

1 – Risk of balsam woolly adelgid. Ba or Bg will be counted last in a survey for the silviculture layer.

2 – Suitable on cool aspects.

3 – Suitable on warm aspects, nutrient medium to very rich soils.

4 – Suitable on nutrient medium sites.

5 – Suitable at lower elevations or warm aspects.

6 – Suitable at upper elevations or cool aspects.

7 – Suitable on fresh sites.

8 – Suitable on elevated microsites.

9 – Viable option where ungulate browse is a factor.

* – Avoid logging.

General Species Notes

Bp – Initial regeneration of Bp (noble fir) is restricted to nutrient medium sites or better. Northerly aspects are to be avoided. Initial regeneration of Bp will not comprise more than a 20% component, to mitigate risk.

Hm – Where this species is encountered outside of the MHmm1, Hm is a viable crop tree in areas transitional to the montane zone or in cold air drainages and persistent snowpack sites.

Pw – Use seed which has been selected to be resistant to *Cronartium ribicola*. Use major gene resistant stock when available, especially below 1000 m elevation. Pw will be planted at not more than 200 trees per ha, evenly distributed. Use caution regarding the use of Pw for browse resistance, since ungulates may select other crop trees, increasing the reliance on Pw for stocking.

Pl – Refers to Plc. The use of Pl to meet the MSS is limited to 20%.

Ss – If Ss is from seed sources selected for high resistance to *Pissodes strobi*, the use of Ss to meet the MSS is unlimited; otherwise, the use of natural Ss to meet the MSS is limited to 20%.

DRAFT

Appendix 1.2 – Minimum Horizontal Inter-Tree Distance

Minimum Horizontal Inter-Tree Distance (MITD) will be assigned at the Assessment Area level as per the table below.

MITD (m)	Site Series
1.6	(i) < 20 metres from road centreline; (ii) immediately adjacent to any: (A) stream – riparian area; (B) natural non-productive area; (C) unplantable slash; or (iii) on any: (A) talus site, landslide, or avalanche track (B) hygric or wetter site; (C) very harsh site where protected microsites are critical; (D) area where stump avoidance is necessary on a root rot site; (E) area extensively utilized for elk, deer or other wildlife habitat or browse (heavy elk use areas) for survival and to utilize slash; or (F) microsites that are preferable given the tree species or damaging agents, to those sites existing at regular 2.0 meters spacing. (iv) in SUs that are being managed for a target stocking of 1500 stems per hectare.
2.0	All other sites.

DRAFT

Appendix 1.3 – Stocking Standard for Intermediate Cutting

BEC	Site Series	Minimum Basal Area (m^2/ha)	Species Selection	No Regeneration Obligation Declaration Timing (years)	
			Layer 1 Trees (>= 12.5 cm dbh)	Early	Late
CWHdm2	101, 110	>=40	Bg, Cw, Fd, Hw, Pw	1	2
	104, 105	>=40	Cw, Fd, Hw, Pw	1	2
	111, 112	>=40	Bg, Cw, Fd, Hw, Pw, Ss	1	2
CWHmm1	101, 110	>=40	Ba, Cw, Fd, Hw, Yc	1	2
	103, 104	>=40	Cw, Fd, Hw, Yc	1	2
	111, 112	>=40	Ba, Cw, Fd, Hw, Yc	1	2
CWHmm2	101, 110	>=40	Ba, Cw, Fd, Hm, Hw, Yc	1	2
	103	>=40	Cw, Fd, Hm, Hw, Yc	1	2
	111, 112, 113	>=40	Ba, Cw, Fd, Hm, Hw, Yc	1	2
CWHvm1	101, 110	>=40	Ba, Cw, Fd, Hw, Ss, Yc	1	2
	103, 104, 105	>=40	Ba, Cw, Fd, Hw, Yc	1	2
	111, 112, 113	>=40	Ba, Cw, Fd, Hw, Ss, Yc	1	2
CWHvm2	101, 110	>=40	Ba, Cw, Fd, Hm, Hw, Yc	1	2
	103, 105	>=40	Ba, Cw, Fd, Hm, Hw, Yc	1	2
	111, 112, 113	>=40	Ba, Cw, Hm, Hw, Yc	1	2

A stocking standard ID will be assigned for CWHvm1-101 and additional site series may be added to the standard, as required, using the approved variation mechanism.

DRAFT

Appendix 2 – Site Series Representation Analysis for SMZ 11 (R/S 6.7.3) – **To be revised for 2026, using TEM**

FDU Site Series Representation Analysis for SMZ 11 (based on VRI data, 2020 reference year)

CWHvm1	Area (ha)	% of Total Area	Underrepresented Ecosystem	CDC Listing	Target (%)	Target (ha)	NHLB Old (ha)	Percent NHLB Old (%)	POGMAs THLB Old-July 19, 2021 (ha)	Revised with POGMAs (%)	Recruitment NHLB (ha)	Conserved in OGMA (%)*
00	57.5	0.6%	Yes		>19	10.9	26.1	45.5%	0.1	45.6%	0.0	45.6%
01	965.8	10.8%			>19	183.5	211.1	21.9%	12.0	23.1%	0.0	23.1%
02	29.5	0.3%	Yes		>19	5.6	9.2	31.1%	0.0	31.1%	0.0	31.1%
03	245.1	2.7%	Yes	Blue	>19	46.6	79.6	32.5%	2.5	33.5%	0.0	33.5%
04	167.7	1.9%	Yes	Blue	>19	31.9	25.9	15.4%	3.8	17.7%	0.0	17.7%
05	429.4	4.8%		Blue	>19	81.6	193.9	45.2%	0.1	45.2%	0.0	45.2%
06	89.7	1.0%	Yes	Blue	>19	17.0	14.6	16.3%	0.7	17.1%	12.8	31.4%
07	663.1	7.4%		Blue	>19	126.0	160.4	24.2%	5.3	25.0%	0.0	25.0%
08	162.0	1.8%	Yes	Blue	>19	30.8	25.4	15.7%	0.0	15.7%	0.0	15.7%
09	37.0	0.4%	Yes	Red	>19	7.0	30.9	83.6%	0.0	83.6%	0.0	83.6%
10	69.8	0.8%	Yes	Blue	>19	13.3	52.7	75.5%	0.0	75.5%	0.0	75.5%
11	21.1	0.2%	Yes	Blue	>19	4.0	17.1	80.7%	0.0	80.7%	0.0	80.7%
14	51.8	0.6%	Yes	Blue	>19	9.9	22.6	43.5%	0.0	43.5%	0.0	43.5%

* Comprising established and proposed old growth management areas, including recruitment.

DRAFT

CWHvm2	Area (ha)	% of Total Area	Underrepresented Ecosystem	CDC Listing	Target (%)	Target (ha)	NHLB Old (ha)	Percent NHLB Old (%)	POGMAs THLB Old- July 19, 2021 (ha)	Revised with POGMAs (%)	Recruitment NHLB (ha)	Conserved in OGMA (%)*
00	86.8	1.0%	Yes		19	16.5	56.8	65.4%	1.5	67.2%	0.0	67.2%
01	1,769.4	19.8%			19	336.2	544.3	30.8%	18.3	31.8%	0.0	31.8%
02	106.0	1.2%	Yes		19	20.1	72.7	68.6%	0.6	69.1%	0.0	69.1%
03	1,242.4	13.9%		Blue	>19	236.1	439.6	35.4%	0.0	35.4%	0.0	35.4%
04	42.9	0.5%	Yes	Blue	>19	8.2	11.0	25.6%	0.0	25.6%	0.0	25.6%
05	383.6	4.3%		Blue	>19	72.9	119.2	31.1%	0.8	31.3%	0.0	31.3%
06	121.9	1.4%	Yes	Blue	>19	23.2	28.7	23.5%	8.6	30.6%	0.0	30.6%
07	282.2	3.2%		Blue	>19	53.6	89.9	31.9%	2.6	32.8%	0.0	32.8%
08	279.5	3.1%		Blue	>19	53.1	88.5	31.7%	0.0	31.7%	0.0	31.7%
09	39.5	0.4%	Yes		>19	7.5	7.1	18.0%	0.8	20.1%	0.0	20.1%
11	4.3	0.0%	Yes		>19	0.8	0.5	11.0%	0.0	11.0%	0.0	11.0%

* Comprising established and proposed old growth management areas, including recruitment.

DRAFT

MHmm1	Area (ha)	% of Total Area	Underrepresented Ecosystem	CDC Listing	Target (%)	Target (ha)	NHLB Old (ha)	Percent NHLB Old (%)	POGMAs THLB Old-July 19, 2021 (ha)	Revised with POGMAs (%)	Recruitment NHLB (ha)	Conserved in OGMA (%)*
00	135.3	1.5%	Yes		>28	37.9	97.3	71.9%	0.0	71.9%	0.0	71.9%
01	683.2	7.6%			28	191.3	411.8	60.3%	0.0	60.3%	0.0	60.3%
02	575.4	6.4%			28	161.1	415.2	72.2%	0.1	72.2%	0.0	72.2%
03	93.4	1.0%	Yes		>28	26.1	65.9	70.6%	0.0	70.6%	0.0	70.6%
05	19.7	0.2%	Yes		>28	5.5	14.0	71.0%	0.0	71.0%	0.0	71.0%
07	70.6	0.8%	Yes		>28	19.8	35.2	49.9%	0.0	49.9%	0.0	49.9%
08	9.4	0.1%	Yes		>28	2.6	6.2	66.4%	0.0	66.4%	0.0	66.4%

* Comprising established and proposed old growth management areas, including recruitment.

DRAFT