



Forest Stewardship Plan
for
Wetzin'kwa
Community Forest Corporation
in the
Skeena-Stikine Forest District,
Bulkley Timber Supply Area

May 5, 2020





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1.0 INTERPRETATION

1.1 Wetzin'kwa Community Forest K2P - Management Plan

In addition to the current planning framework, including the Bulkley LRMP and its attendant management zones, guidance on the management of the Wetzin'kwa Community Forest licence is also provided in the Wetzin'kwa Community Forest K2P – Management Plan. The approved Wetzin'kwa Community Forest Management Plan sets important management direction through its 'Management Goals' and 'Guiding Principles'. This direction is non-legal from the standpoint of the Forest and Range Practices Act and therefore is not addressed specifically in the Wetzin'kwa Forest Stewardship Plan, but is essential to the management of the tenure. See the Supplemental Information document for details on how the Forest Stewardship Plan (FSP) links to the Management Plan.

1.1.1 Forest Stewardship Plan – Contributing Sections

Section 1.0 is a preamble referencing the approved Wetzin'kwa Forest Management Plan and is not part of the legal Forest Stewardship Plan. The Sections of this document that comprise the Forest Stewardship Plan are provided in Section 1.2 through Section 8.0, as well as the Appendices A through C. The headings in this FSP and the provisions titled "Background Information", including the contents thereof, are for ease of reference only and are not to be construed as part of, or to serve as an aid to interpreting, this FSP.

1.2 Definitions

In this FSP, unless this FSP specifies, or the context requires, otherwise:

- (a) **"Access Control Point"**: is a physical feature or combination of features, such as road deactivation, placed or developed on a road to restrict motorized access.
- (b) **"CHR"** means a cultural heritage resource that is the focus of a traditional use by an aboriginal people, has evidence of past use, is of continuing importance to that people and is not regulated under the *Heritage Conservation Act*;
- (c) **"Closed Road or Inaccessible Road"** means a road where motorized access is restricted through the use of a one or combination of, access control points, gates , or road deactivation activities. (note that gated roads that have no other restriction on motorized access are not considered "closed")
- (d) **"Effective Date"** means the date the **Term** commences, as specified in Division 3.2
- (e) **"FSP Holder"** means a holder of a licence specified in Division 2.1
- (f) **"Legislated Planning Date"** means:
 - (i) subject to sub-clause (ii), the date 4 months before the **Submission Date**; or
 - (ii) if an enactment or an established objective requires that a date different than the date referred to in sub-clause (i) be applied under this FSP, then that different date;
- (g) **"Main Haul Road"** means a forestry road used to access an entire landscape unit or operating area and, for greater certainty, but without limiting the foregoing, means, as



of the **Submission Date**, the following road in the community forest agreement area:
7000 road.

- (h) **“Map”**, when followed by a number, means the map of that number in Appendix C to this FSP;
- (i) **“Mapped Habitat”** means the area of wildlife habitat for a species, as shown on Map 2 of this FSP.
- (j) **“Mature Stand”** and **“Over Mature Stand”** is defined as >120 yr in the MHmm2 and ESSFmc/mk/wv; as >100 yr in the ICHmc1/mc2 and SBSdk/mc2; and as >80 yr in the CWHws2.
- (k) **“Motorized Access”** means access that permits the passage of insurable 2 wheel drive or 4 wheel drive motor vehicles not intended for off-road usage;
- (l) **“Open Road”** means a road without restrictions on motorized access (note that gated roads that have no other restriction on motorized access are considered “open”);
- (m) **“Open Road density”** means the linear distance of open roads per square kilometer.
- (n) **“Patch”** means stand of trees that is larger than 1 hectare in size, even aged and differing in age from adjacent stands by more than 20 years;
- (o) **“Permanent Road”** means a road intended to facilitate long term harvesting, hauling and silviculture activities, typically planned to be maintained for longer than 5 years.
- (p) **“Classified Riparian Feature”** means a stream, wetland or lake with a riparian class determined under Division 3 (*Riparian areas*) of Part 4 (*Practice requirements*) of the **FPPR**;
- (q) **“Qualified Professional”** means a person who by education, experience and professional credentials is considerable knowledgeable and able to provide expert advice on a given subject in a given situation.
- (r) **“Rotation”** means the time needed from regeneration of crop trees until those trees are harvestable timber and, for greater certainty, but without limiting the foregoing, means for the SBS 80-100 years and for the ESSF/ICH/CWH/MH 100-120 years;
- (s) **“Submission Date”** means the date this FSP is submitted for approval, as specified in Division 3.1:
- (t) **“Temporary Road”** means a road intended to facilitate short term harvesting, hauling and silviculture activities, typically planned to be an **Inaccessible Road** within two years of construction; and
- (u) **“Term”** means the period during which this FSP is in effect, as determined from Divisions 3.2.
- (v) **“WTRA”** means Wildlife Tree Retention Area and is an area occupied by wildlife trees that is (a) located in a cutblock, (b) in an area contiguous to a

cutblock, or (c) in an area close to the cutblock that the wildlife trees could directly impact on, or directly impacted by, a forest practice carried out in the cutblock.

1.3 Definitions for legislation

In this FSP, unless the FSP specifies, or the context requires, otherwise, words and phrase defined in FRPA or the Forest Act have the same meaning as those definitions as they were on the Legislative Planning Date.

1.4 Abbreviations

- (a) **“Act”** means the Forest and Range Practices Act SBC 2002, c.69
- (b) **“BEC”** means biogeoclimatic ecological classification
- (c) **“DBH”** means diameter at breast height
- (d) **“DDM”** means Designated Decision Maker
- (e) **“Forest Act”** means the Forest Act RSBC 1996 c.157
- (f) **“FPC”** means the Forest Practices Code of British Columbia Act RSBC 1996, c.159 and regulations thereunder
- (g) **“FLRNORD”** means the Ministry of Forests, Lands and Natural Resource Operations and Rural Development
- (h) **“FRPA”** means the Forest and Range Practices Act and regulations thereunder
- (i) **“FPPR”** means the Forest Planning and Practices Regulation B.C. Reg 14/2004
- (j) **“FSP”** means the forest stewardship plan
- (k) **“FDU”** means a forest development unit specified in Division 4.1
- (l) **“OGMA”** means Old Growth Management Area(s)
- (m) **“MITD”** means Minimum Inter-Tree Distance
- (n) **“NAR”** means the Net Area to be Reforested
- (o) **“NDT”** means Natural Disturbance Type
- (p) **“VQO”** means Visual Quality Objective

1.5 Organization

This FSP is divided into parts, divisions’ paragraphs, subparagraphs, clauses and subclauses, illustrated as follows:

- 1. Part;
 - 1.1 Division;
 - 1.1.1 Paragraph;
 - 1.1.1.1 Subparagraph;
 - (a) Clause;
 - (i) Sub-clause,



and a reference to a paragraph, subparagraph, clause, or sub-clause is to be construed as a reference to a paragraph, sub-paragraph or clause, or sub-clause of the division, paragraph, sub-paragraph, or clause as the case may be, in which the reference occurs.

1.6 Changes to Legislation

If legislation referred to in this FSP is renamed or a provision of legislation referred to in this FSP is renumbered, the reference in this FSP is to be construed as a reference to the provision as renamed or renumbered, as the case may be.

1.7 Appendices Part of FSP

The Appendices to this FSP are a part of this FSP and any reference in this FSP to this FSP includes a reference to the Appendices.

1.8 Objectives Cancelled

If an established objective for which a result or strategy is included under this FSP is cancelled, the result or strategy under this FSP pertaining to that objective is no longer practicable, effective on the date of cancellation of the objective.

2.0 APPLICATION OF THIS FSP

2.1 Licences

In respect of Wetzin'kwa Community Forest Corporation this FSP applies to Community Forest Licence K2P.

2.2 Application of this FSP to Permits Issued during Term of Previous FSP

For the purposes of Section 21(2) of the FRPA, with the exception of Stocking Standards, this FSP does not apply to a cutting permit or road permit issued under a previous FSP

2.3 Application of this FSP's Stocking Standards

In respect of Wetzin'kwa Community Forest Corporation, for the purposes of sections 197(5) and (7) of the Act, the stocking standards described in Part 7 of this FSP apply to the standard units of each cutblock to which those sections apply that:

- (a) are within an FDU; and
- (b) on or after the Effective Date become subject to an obligation to establish a free growing stand.



3.0 TERM OF THIS FSP

3.1 Commencement of Term

The **Term** of this FSP commences on the date this plan is approved by the DDM.

3.2 Length of Term

The length of the **Term** of this FSP is 5 years or as specified by the DDM unless:

- (a) the FSP Holder elects to replace it with another approved forest stewardship plan; or
- (b) it is extended pursuant to FRPA.

4.0 IDENTIFYING FOREST DEVELOPMENT UNITS

4.1 Boundaries of FDU

For the purposes of sections 5(1)(a) of the **Act** and 14(1) of the **FPPR**, the boundary of the forest development unit under this **FSP** are as shown on Map 1, and coincides with the boundary of the community forest.

4.2 Areas Considered Approved

For the purposes of sections 14(3)(j) of the **FPPR**, the cutting permits and road permits held by the FSP Holder under the licence referred to in Paragraph 2.1 and within the FDU are as follows:

RP R16534	CP 238
CP 237	CP 123
CP 124	CP 307



4.3 Designations in Effect Four Months Prior to Submission of the FSP

Table 1: The designations in effect at the time of the submission of this FSP are

Designation	Legal Order Reference Number	Effective Date
Fisheries Sensitive Watersheds	F-6-004: Toboggan Creek	December 28, 2005
Bulkley LRMP Objectives set by Government (HLP-2006)	Section 93.4 (1) of the Land Act	November 6, 2006
Bulkley Land and Resource Management Plan – Higher Level Plan Order Appendix 2, 3, and 4	Sections 3(1) and 3(2) of the Forest Practices Code, and remain in effect as per section 181 of the FRPA.	December 19, 2000
Visual Quality Objectives Bulkley LRMP – Higher Level Plan Order	Remains in effect as per section 181 of the FRPA.	December 19, 2000
GAR order UWR# U-6-007 Bulkley Mountain Goats	UWR#U-6-007	September 3, 2019

Maps 1, 2 and 3 Appendix C identifies all of the other things, required to be identified in section 14(3)(a)-(i) of the FPPR.

5.0 RESULTS OR STRATEGIES

5.1 Objectives set by Government for Biodiversity

5.1.1 Ecosystem Representation: Core Ecosystems

Background Information	
Summary of Objective	<ul style="list-style-type: none"> a. <i>Maintain biodiversity by representing a cross section of naturally-occurring ecosystems in identified core ecosystem on map 2.</i> b. <i>Maintain biodiversity by maintaining some areas with forest interior conditions in identified core ecosystems on map 2.</i> c. <i>Maintain biodiversity by retaining representative examples of rare and endangered plant communities in core ecosystems on map 2 by</i> <ul style="list-style-type: none"> i. <i>Not expanding range use in core ecosystems; and</i> ii. <i>Not timber harvesting in core ecosystems unless it is necessary for:</i> <ul style="list-style-type: none"> a.) <i>Protecting the integrity and function of the ecosystem;</i> b.) <i>Mineral and energy exploration and development;</i> c.) <i>Providing access to timber outside the core ecosystem that would otherwise be isolated, or</i> d.) <i>Forest health control where there is a risk to operable timber outside of the core ecosystem</i>
Source of Objective	<i>Bulkley LRMP (HLP 2006) Objectives (Objective 1.2) established under section 93.4 (1) of the Land Act</i>
Date Objective in Effect	November 6, 2006

Result or Strategy

5.1.1.1 Definitions

(a) **“rare and endangered plant communities”**: means indigenous plant species or plant communities, that have been red listed and blue listed by the BC Ministry of Environment Conservation Data Centre, that are extirpated, endangered or threatened in British Columbia.

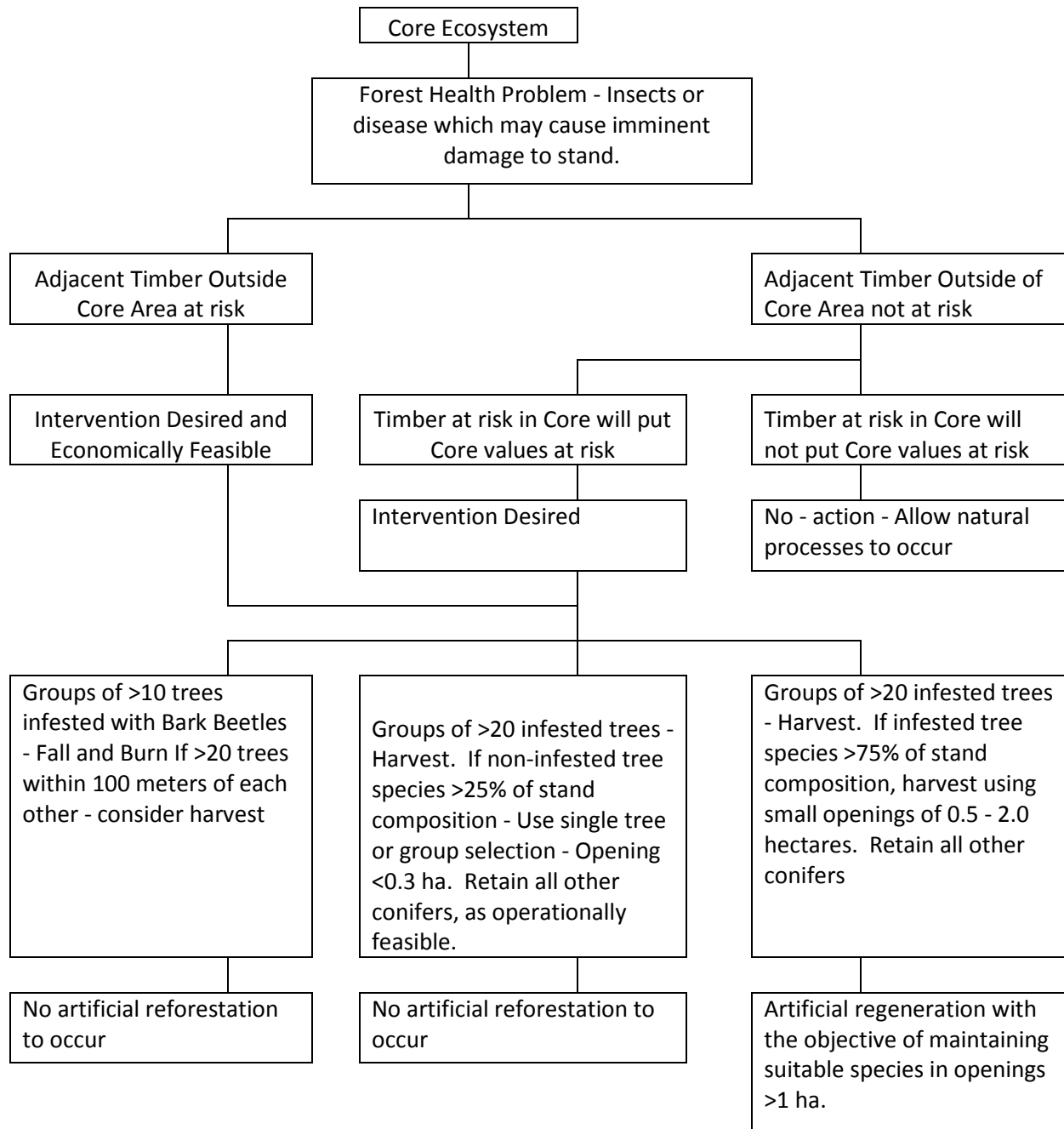


5.1.1.2 Limitation on Roads and Harvesting in Core Ecosystems

If harvesting a cutblock or constructing a road to which this FSP applies and within a Core Ecosystem, the FSP Holder will:

- (a) not construct a:
 - (i) permanent access structure; or
 - (ii) a permanent road,in that Core Ecosystem unless:
 - (iii) in the case of either a permanent access structure or a permanent road, there is no other practicable option for conducting the harvesting described in clause (b); in which case roads will be permanently deactivated following harvesting; or
 - or
 - (iv) in the case of a road, it is the only practicable option for accessing operable timber outside the Core Ecosystem; and
- (b) undertake that harvesting in accordance with Figure 1.
- (c) Ensure timber harvesting and road building do not occur within rare and endangered plant communities located in Core Ecosystems.
- (d) This subsection applies where timber in a Core Ecosystem is in danger of being damaged, significantly reduced in value, lost or destroyed, and/or poses a hazard to public safety and the original Core Ecosystem values are at risk. In these circumstances the FSP holder may develop treatment unit plans, subject to approval from the District Manager that facilitates harvesting of the affected timber. In all cases, the Bulkley TSA LRMP balance must be maintained through the introduction of an offsetting constrained area deemed acceptable by the District Manager.

Figure 1. Decision Matrix for Harvesting in Core Ecosystems



Silviculture - Commitment to stocking. Plant only to maintain ecological integrity of the stand.

Site Plans required only for opening >1.0 ha

Where harvesting within CORE Ecosystems results in opening > 1 ha, the Reforestation Target Stocking Standard (TSS) will be equal to the Minimum Stocking Standards (MSS) as defined by Appendix A for the corresponding BEC site series of the site.

5.1.2 Connectivity: Landscape Corridors

Background Information	
Summary of Objective	<p>a. <i>Maintain, within a managed forest setting, habitat connectivity across the landscape by maintaining landscape corridors dominated by mature tree cover and containing most of the structure and function associated with old forest, identified in Map 2.</i></p> <p>b. <i>Maintain, within a managed forest setting, movement and dispersal of organisms in landscape corridors identified in Map 2.</i></p>
Source of Objective	Bulkley LRMP (HLP – 2006) Objectives (Objective 1.3)
Date Objective in Effect	November 6, 2006

Result or Strategy

5.1.2.1 Definitions

In Subparagraph 5.1.2.2:

- (a) **“Functional Old Forest”** means coniferous leading or deciduous leading forest older than 80 years; and
- (b) **“Landscape Corridor”** means a landscape corridor shown on Map 5 in the **Bulkley LRMP (HLP - 2006)** as of the **Legislated Planning Date**.
- (c) **“Infested”** means an area of timber where on average greater than 30% of the gross volume has been affected by spruce or pine bark beetles.

5.1.2.2 Limits on Activities in Landscape Corridors

If harvesting a cutblock or constructing a road to which this FSP applies within a Landscape Corridor, the FSP Holder will:

- a) not cause, as a result, and as of the conclusion, of that harvesting, the area of Functional Old Forest on Crown forested land associated with a cutblock within a Landscape Corridor to be less than 70% of such area;
- b) ensure the area of Functional Old Forest associated with a cutblock in a Landscape Corridor is contained within the landscape corridor being harvested and is not associated with any previous timber harvesting activities.
- c) limit the size of each clearcut opening within the cutblock, so that it does not exceed the greater of:
 - (i) 3.0 hectares; or
 - (ii) if the Landscape Corridor is infested by insects;
 - A. the area necessary to harvest the infested timber and
 - B. if the clear-cut opening is greater than 3.0 hectares maintain a minimum 100 meter wide Functional Old Forest corridor associated with the clear-cut opening within the Landscape Corridor.

- d) Within harvested areas greater than 1 ha retained to the extent practicable, a minimum of 60 stems per hectare of which 50% are greater than or equal to 15 cm at DBH.
- e) not build a permanent access structure unless no other practicable alternative exists for accessing or extracting timber; and
- f) not construct a road outside a cutblock but within the Landscape Corridor unless no other practicable option exists for accessing or extracting timber outside the Landscape Corridor.

5.1.3 Seral Stage

Background Information	
Summary of Objective	<i>Maintain biodiversity by maintaining a natural seral-stage distribution specified in the objective</i>
Source of Objective	<i>Bulkley LRMP (HLP-2006) Objectives (Objective 1.1)</i>
Date Objective in Effect	<i>November 6, 2006</i>

Result or Strategy

5.1.3.1 Definitions

In Subparagraphs 5.1.3.2 and 5.1.3.3:

- (a) **“Seral Stage Target”** means the seral-stage targets by landscape unit and **BEC** subzone set out in Table 1 of Objective 1.1 in the **Bulkley LRMP (HLP - 2006)** as of the **Legislated Planning Date**; and
- (b) **“Old”**, **“Mature”** and **“Young”** have the meaning given them in Objective 1.1 in the **Bulkley LRMP (HLP - 2006)** as of the **Legislated Planning Date**.

5.1.3.2 Limits on Activities to Maintain Natural Seral Stage Distribution

Subject to Subparagraph 5.1.3.3, if harvesting a cutblock greater than 1 hectare in size to which this FSP applies, the FSP Holder will not by, and as of the conclusion of, that harvesting, cause the amount of:

- (a) Old, or Mature and Old timber to fall below; or
- (b) Young timber to exceed,

the applicable **Seral Stage Target**.

5.1.3.3 Limits on Activities Where Targets Already Not Met

If, as of the commencement of harvesting referred to in Subparagraph 5.1.3.2, the amount of:

- (a) Old or Mature and Old timber is less than; or
- (b) Young timber is greater than,

the applicable Seral Stage Target, such harvesting will be limited to an amount that is:

- a) consistent with a rate of harvesting that enables the Seral Stage Targets for Old and Mature and Old to be achieved over a **Rotation** and,
- b) where the amount of Old is below the applicable Old Seral Stage Target, not apply for cutting permits containing Old seral forest, unless, harvesting is required to develop an access structure and no other practicable alternative exists for accessing or extracting timber.

5.1.4 Wildlife and Biodiversity – Landscape Level.

Background Information	
Summary of Objective	<i>Without unduly reducing the supply of timber from British Columbia's forests and to the extent practicable, to design areas on which timber harvesting is to be carried out that resemble, both spatially and temporally, the patterns of natural disturbance that occur within the landscape.</i>
Source of Objective	<i>FPPR s.9</i>
Date Objective in Effect	<i>January 31, 2004</i>

Result or Strategy

5.1.4.1 Limitations on Harvesting to Provide Patch Size Distribution

The FSP Holder will limit the size of cutblocks it harvests and to which this FSP applies such that the **Patch** size distribution created by that harvesting, by landscape unit, and natural disturbance types, will trend over time towards the applicable ranges specified in Table 2.

TABLE 2: PATCH SIZE DISTRIBUTION BY NATURAL DISTURBANCE TYPE (NDT).

<i>Natural Disturbance Type</i>	Patch Size Distribution		
	<40 hectares	40-80 hectares	>80 hectares
NDT 1 and 2 ^a	30-40%	30-40%	20-40%
	<40 hectares	40-250 hectares	>250-1000 hectares
NDT 3 ^b	10-20%	10-20%	60-80%

^a includes ESSFmk/wv, MHmm2, CWHws2, ESSFmc and ICHmc1/mc2

^b includes SBSdk/mc2

5.1.5 Tree Species Diversity

Background Information	
Summary of Objective	<i>Maintain a diversity of coniferous and deciduous species representing the natural species composition for each biogeoclimatic subzone</i>
Source of Objective	<i>Bulkley LRMP (HLP – 2006) Objectives (Objective 1.4)</i>
Date Objective in Effect	<i>November 6, 2006</i>

Result or Strategy

5.1.5.1 Activities Pertaining to Tree Species Diversity

- a.) If harvesting a cutblock to which this FSP applies, where the volume of standing timber of deciduous species in the cutblock is greater than 10% of the net merchantable volume, the FSP Holder will retain at the conclusion of that harvesting, deciduous species in wildlife tree retention areas or riparian reserve zones that relate to the cutblock.
- b.) Reforest cutblocks as per the stocking standards, which have been designed to maintain a diversity of coniferous species representing the natural species composition for each biogeoclimatic subzone.

5.1.6 Stand Structure

Background Information	
Summary of Objective	<i>Maintain a diversity of attributes of old forest, such as coarse woody debris and standing dead and live trees, in managed stands in the percentage identified in Table 2 in the objective.</i>
Source of Objective	<i>Bulkley LRMP (HLP – 2006) Objectives (Objective 1.5)</i>
Date Objective in Effect	<i>November 6, 2006</i>

TABLE 3. Percentage of cutblock NAR to be retained in wildlife tree retention areas by BEC subzone and landscape unit.

LU	CWHws2	ESSFmc	ESSFmk	ESSFwv	ICHmc1	ICHmc2	MHmm2	SBSdk	SBSmc2
Bulkley Valley		5			3	5		5	7
Telkwa	3	3	1	1				3	7
Copper	5	1		3			1		5
Trout Creek				1	7	3		1	1

Result or Strategy

5.1.6.1 Wildlife Tree Retention

- (a) Where the FSP holder completes harvesting on one or more cutting permits within a landscape unit ensure that, at the end of that 12 month period, beginning on April 1 of any harvest year, the total area covered by wildlife tree retention areas that relate to the combined cutblocks harvested by the FSP holder, will be a minimum percentage of the total harvested area, in each landscape unit and BEC subzone combination identified in Table 3.
- (b) If harvesting a cutblock to which this FSP applies that is 15 hectares or greater in size, the FSP Holder:
 - i. will, subject to clause (b), retain at the completion of that harvesting, a wildlife tree retention area that relates to the cutblock of not less than 50% of the amount specified in Table 3;
 - ii. may relate a wildlife tree retention area required under clause (a) to more than one cutblock if all of the cutblocks that relate to the wildlife tree retention area collectively meet the applicable requirements of clause (a); and
 - iii. will specify a wildlife tree retention area required under clause (a):

- (i) in an area that contains attributes of old forest stand structure such as standing dead trees, standing live trees, and coarse woody debris; or
 - (ii) where the attributes referred to in sub-clause (i) are not available within the cutblock, in an area that is representative of the cutblock conditions immediately before the harvesting commenced.
- (c) If harvesting a cutblock to which this FSP applies that is less than 15 hectares in size, the FSP holder:
- i. will subject to clause (b), retain at the completion of that harvesting, a wildlife tree retention area within 500 meters of the cutting permit and that relates to the amount specified in Table 3;
 - ii. may relate a wildlife tree retention area required under clause (a) to more than one cutblock if all of the cutblocks that relate to the wildlife tree retention area collectively meet the applicable requirements of clause (a).
- (d) The FSP holder will ensure that the WTRAs applicable under this clause or the trees within such WTRAs include one or more of the following attributes:
- i. Diversity of wildlife tree retention strategies (eg range of patch sizes combined with dispersed trees);
 - ii. Diversity of habitat types;
 - iii. Internal decay (heart rot or natural/excavated cavities present
 - iv. Crevices present (loose bark or cracks suitable for bats);
 - v. Large brooms present;
 - vi. Active or recent wildlife use;
 - vii. Tree structure suitable for wildlife use (eg large nest, hunting perch, bear den);
 - viii. Large trees for the site (height and diameter) and veterans;
 - ix. Representative of the size, age and species of the pre-harvest stand

5.1.6.2 Restriction on Harvesting Wildlife Tree Retention Areas

The FSP Holder will not harvest a wildlife tree retention area referred to in clause (a) unless:

- (a) the trees on the net area to be reforested of the cutblock to which the wildlife tree retention area relates have developed attributes that are consistent with a mature seral condition; or
- (b) the FSP holder specifies one or more wildlife tree retention areas that provide an area, number of trees or habitat that is equivalent to the portion of the wildlife tree retention area that is harvested.

5.2 Objectives set by Government for Wildlife

Background Information		
Summary of Objective	Source of Objective	Date Objective in Effect
For mountain goat: (a) GAR Order UWR # U-6-007	<i>GAR Order UWR#U-6-007</i>	September 3, 2019
For moose: (a) <i>Provide woody browse in moose winter habitat identified in Map 2.</i> (b) <i>Provide visual screening, security, thermal and snow interception cover in moose winter habitat identified in Map 2.</i>	<i>Bulkley LRMP (HLP-2006) Objective 2.2</i>	November 6, 2006
For deer: (a) <i>Provide woody browse during winter in deer habitat identified in Map 2.</i> (b) <i>Provide visual screening, security, thermal and snow interception cover in deer habitat identified in Map 2.</i> (c) <i>Provide mature cover adjacent to steep, south facing slopes within deer habitat identified in Map 2.</i>	<i>Bulkley LRMP (HLP-2006) Objective 2.6</i>	November 6, 2006
For wildlife: <i>Provide for wildlife habitat and populations by implementing and timing road location, development and maintenance activities in a manner that minimizes the effects on these values.</i>	<i>Bulkley LRMP (HLP-2006) Objective 2.1</i>	November 6, 2006

Result or Strategy

5.2.1 Definitions

In Paragraph 5.2.2:

- (a) **“Mapped Habitat”** means the area of wildlife habitat for a species, as shown on Map 2 of this FSP;
- (b) **“visual screening”** means the retention to the extent practicable of deciduous species, non-merchantable conifers, non-commercial stems and brush species present when harvesting commences, that are located with:
 - i) Within the first 30 m adjacent to a Main Haul Road measured from the outside of the road ditch line considering site lines and road safety or
 - ii) Within 30 m of a classified wetland edge.

5.2.2 Activities Related to Wildlife Species

If harvesting a cutblock to which this FSP applies, the FSP Holder will:

- a.) in respect of GAR Order UWR # 6-007 – Bulkley Mountain goats
 - i.) follow the general wildlife measures outlined in Schedule 1 of the order.
- b.) In respect of Mapped Habitat for moose:
 - i.) retain at the conclusion of such harvesting within such Mapped Habitat:
 - A.) where the volume of deciduous species is greater than 5% of the net merchantable stand volume of the cutblock immediately prior to commencing harvesting, wildlife tree retention areas or riparian reserve zones containing a deciduous component; and



- B.) **visual screening** within a cutblock located immediately adjacent to Main Haul Roads, provided that such screening is available and need not be removed for safety reasons or to fulfill any other requirement under this FSP or at law;

- C.) thermal and snow interception cover by the results and strategies specified in sections 5.1.1 (CORE Ecosystems), 5.1.2 (Landscape Corridors), 5.1.3 (Seral Stage) and 5.1.4 (Landscape level biodiversity) and 5.1.6 (stand structure) of this FSP.
 - ii.) where permitted to do so at law, deactivate all roads within a cutblock in such Mapped Habitat not required for future timber development by date as soon as practicable after the FSP Holder completes for that cutblock all activities required to achieve the stocking standards that apply under this FSP to the regeneration date; and
 - iii.) not use pesticide or herbicide to treat brush in a cutblock;

- c.) in respect of Mapped Habitat for deer:
 - i. retain at the conclusion of such harvesting within such Mapped Habitat:
 - A.) where the volume of deciduous species is greater than 5% of the net merchantable stand volume of the cutblock; immediately prior to commencing harvesting, wildlife tree retention areas or riparian reserve zones containing a deciduous component; and
 - B.) where harvesting occurs adjacent to steep south facing slopes, wildlife tree retention areas adjacent to or on the steep south facing slopes; and
 - C.) **visual screening** within a cutblock located immediately adjacent to Main Haul Roads, provided that such screening is available and need not be removed for safety reasons or to fulfill any other requirement under this FSP or at law;
 - D.) thermal and snow interception cover by the results and strategies specified in sections 5.1.1 (CORE Ecosystems), 5.1.2 (Landscape Corridors), 5.1.3 (Seral Stage) and 5.1.4 (Landscape level biodiversity) and 5.1.6 (stand structure) of this FSP.
 - ii) where permitted to do so at law, deactivate all roads within a cutblock in such Mapped Habitat not required for future timber development by date as soon as practicable after the FSP Holder completes for that cutblock all activities required to achieve the stocking standards that apply under this FSP to the regeneration date; and
 - iii.)not use pesticide or herbicide to treat brush in a cutblock;

- d.) in respect of wildlife general (*Bulkley LRMP Objective 2.1*) the result and strategy are specified in section 5.2.2 (b) and (c).

5.3 Objectives set by Government for Fish Habitat and Water Quality

5.3.1 Objectives set by Government for Water, Fish, Wildlife and Biodiversity within Riparian Areas

Background Information	
Summary of Objective	<i>Without unduly reducing the supply of timber from British Columbia's forests, to conserve, at the landscape level the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas.</i>
Source of Objective	<i>FPPR s.8</i>
Date Objective in Effect	<i>January 3, 2004</i>

Result or Strategy

5.3.1.1 Definition

In Subparagraph 5.3.1.3:

- (a) **“Directly adjacent”** means the portion of any riparian feature with a riparian management class that due to its location is within its riparian management zone distance from a block harvested under this FSP.
- (b) **“RMZ”** means a riparian management zone”
- (c) **“Stub”** means a live or dead tree that has had its top removed, leaving a high stump greater than 3.0 m in height.
- (d) **“Sensitive S6 Stream”** means the first 500 meter portion of an S6 stream measured from
 - its confluence with a fish bearing stream, and
 - i.) has a channel width of greater than 1.0 meter, and
 - ii.) has the same stream order as the most downstream reach of the tributary.
- (e) **“Retain”** or **“Retention”** relates to standing live or dead trees. Blowdown of retained trees following harvest of the RMZ are considered retention.

5.3.1.2 Activities in Riparian Areas

The FSP Holder adopts as a result or strategy under this FSP, applicable to the **FDU**, sections 47, 48, 49, 50, 51, 52(2) and 53, 55, 56, 57 and 58 of the FPPR.

The FSP holder will not use within the RMA of a riparian classified feature pesticides or herbicides to treat brush.

5.3.1.3 Retention in RMZ's

For the purposes of section 12(3) and 12.3 (6) of the FPPR, the FSP Holder, when felling trees in a cutblock to which this FSP applies within an RMZ of a riparian feature, will, at the conclusion of that activity:

- a.) Retain the amounts referenced in Table 4 for each portion of the RMZ within or **directly adjacent** to the cutblock harvested under this FSP,

Table 4: Retention of trees within RMZ of Wetlands and Lakes and Features with a Riparian Reserve Zone

Riparian Class	Basal Area or Unharvested Area to be retained with Riparian Management Zone
S1A or S1B	>= 20%
S2	>= 20%
S3	>= 20%
W1 or W5	>= 10%
L1-B	>= 10%
L-3	>= 10%
The basal area or areas % retained unharvested shall count both live and dead merchantable and non-merchantable trees and stubs.	

- b.) For W3 wetlands, retain within a 10 meter zone not less than 25% of the area or not less than 25% of the pre-harvest stems/ha greater than 15 cm DBH as stubs or full stems.
- c.) For S4, S5, or sensitive S6 streams, retain within a 20 meter zone (consists of 10 meters on either side) greater than 50% of the basal area.
- d.) For S6 streams, that is not sensitive, retain within a 20 meter zone (consists of 10 meters on either side) greater than 15% of the basal area.
- e.) Retain to the extent practicable, the brush and non-merchantable conifer and non-commercial stems present when harvesting commenced
 - (i) within 10 meters that begins at both sides of the edge of the stream channel bank of each S4, S5 and sensitive S6 stream within or directly adjacent to a cutblock.
 - (ii) within 5meters that begins at both side of the edge of the stream channel bank of each S6 stream that is not sensitive within or directly adjacent to a cutblock
 - (iii) within 5 meters for W3 wetlands, L1-A or L3 lakes within or directly adjacent to a cutblock.

5.3.2 Objectives Set by Government for Fish Habitat in Fisheries Sensitive Watersheds

Background Information											
Summary of Objective	<p><i>To provide within the normal forest Rotation, special management to the amount, timing and distribution of primary forest activities, in order to;</i></p> <ul style="list-style-type: none"> <i>a.) Conserve the natural hydrological conditions, natural stream bed dynamics and integrity of stream channels in the Fisheries Sensitive Watershed.</i> <i>b.) Conserve the quality, quantity and timing of water flows required by fish in the Fisheries Sensitive Watershed, and</i> <i>c.) Prevent the cumulative hydrological effects of primary forest activities in the Fisheries Sensitive Watershed from resulting in material adverse impact on the fish habitat of the watershed.</i> <p><i>For the purposes of this FSP, the objective applies to the following fisheries sensitive watershed:</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><i>Watershed Common Name</i></th> <th style="text-align: center;"><i>Watershed Gazetted Name</i></th> <th style="text-align: center;"><i>Forest District</i></th> <th style="text-align: center;"><i>GIS FSW Identifier</i></th> <th style="text-align: center;"><i>Watershed Code</i></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><i>Toboggan Creek</i></td> <td style="text-align: center;"><i>Toboggan Creek</i></td> <td style="text-align: center;"><i>Skeena Stikine</i></td> <td style="text-align: center;"><i>F-6-004</i></td> <td style="text-align: center;"><i>4602429</i></td> </tr> </tbody> </table>	<i>Watershed Common Name</i>	<i>Watershed Gazetted Name</i>	<i>Forest District</i>	<i>GIS FSW Identifier</i>	<i>Watershed Code</i>	<i>Toboggan Creek</i>	<i>Toboggan Creek</i>	<i>Skeena Stikine</i>	<i>F-6-004</i>	<i>4602429</i>
<i>Watershed Common Name</i>	<i>Watershed Gazetted Name</i>	<i>Forest District</i>	<i>GIS FSW Identifier</i>	<i>Watershed Code</i>							
<i>Toboggan Creek</i>	<i>Toboggan Creek</i>	<i>Skeena Stikine</i>	<i>F-6-004</i>	<i>4602429</i>							
Source of Objective	<i>OrderBCReg 62/2005 dated December 28, 2005 under schedule 2 of the Forest Planning and Practices Regulation.</i>										
Date Objective in Effect	<i>December 28, 2005</i>										

Result or Strategy

5.3.2.1 Definition

In Subparagraph 5.3.2.2, “FSW” means the Toboggan Creek Fisheries Sensitive Watershed, as it was on the **Legislated Planning Date** unless, after that date, any fisheries sensitive watershed is reduced in area, in which case from the date of reduction, it means that part of that fisheries sensitive watershed remaining after the reduction.

5.3.2.2 Activities within the Fisheries Sensitive Watersheds

If harvesting a cutblock or constructing a road to which this FSP applies:

- a.) The FSP Holder will not cause as of the conclusion , and by virtue of that harvesting or construction a target specified in Table 5 to be exceeded, or
- b.) If timber is in danger of being damaged, significant reduced in value, lost or destroyed and/or poses a hazard to public safety. In these circumstances the FSP holder may develop harvest plans, subject to District Manager approval, that facilitate harvesting of the affected timber specified in Table 5.

Table 5: Fisheries Sensitive Watershed Targets

FSW Gazetted Name	Targets			
	Equivalent Clearcut Area (% of total FSW area)	Peak flow Index associated with the FSW	Open Road Density (km/km ² in the FSW)	Stream Crossing Density (#/km ² in the FSW)
Toboggan Creek	25	32	1.4	Not Available

5.3.3 Objectives Set by Government for Water in Community Watersheds

Background Information	
Summary of Objective	<p><i>Where water is being diverted for human consumption through a licenced waterworks in specified community watersheds, prevent, within specified limits of impact on timber supply, the cumulative hydrological effects of primary forest activities within the watershed from resulting in:</i></p> <ul style="list-style-type: none"> <i>a.) A material adverse impact on the quantity of water or the timing of the flow of the water from the waterworks, or</i> <i>b.) The waterworks having a material adverse impact on human health that can not be addressed by water treatment required under</i> <ul style="list-style-type: none"> <i>i.) An enactment, or</i> <i>ii.) The licence pertaining to the waterworks.</i>
Source of Objective	<i>FPPR s.8.2</i>
Date Objective in Effect	<i>February 25, 2005</i>

Result or Strategy

5.3.3.1 Definition

Community Watershed means the proposed Kathlyn Creek Community Watershed, as shown on FSP map 2.

5.3.3.2 Activities within a Community Watershed

The FSP holder adopts as a result and strategy under this FSP, applicable to the FDU, sections 59, 60, 61, 62, 63, 82(1), and 84 of the FPPR.

The FSP holder will not use pesticide or herbicides to treat brush within all of the FDU.

If the FSP holder proposes road construction or timber harvesting within the proposed Kathlyn Creek Community Watershed, the FSP holder will harvest within any thresholds/targets established for this watershed. In the absent of any established thresholds/targets, the FSP holder will develop targets and thresholds with the Kathlyn Creek Watershed Group, before any road construction and timber harvesting commences.

If timber is in danger of being damaged, significant reduced in value, lost or destroyed and/or poses a hazard to public safety. In these circumstances the FSP holder may develop harvest plans, subject to District Manager approval, that facilitate harvesting of the affected timber within the community watershed.

5.3.3.3 Activities in watersheds with a licenced waterworks

The FSP holder adopts as a result or strategy under this FSP, applicable to the FDU sections 59, 60, 82(1), and 84 of the FPPR

The FSP holder will not use pesticides or herbicides to treat brush within all of the FDU.

5.3.4 Objectives for Fish Habitat

Background Information	
Summary of Objective	<i>Provide for lakes containing high-value fish habitat by maintaining lakes in a full spectrum of settings including semi-primitive and primitive</i>
Source of Objective	<i>Bulkley LRMP (HLP-2006) Objectives (Objective 3.0)</i>
Date Objective in Effect	<i>November 6, 2006</i>

Result or Strategy

5.3.4.1 Definition

In Subparagraph 5.3.4.2, “**Wilderness Lake**” means a lake that, as of the **Legislated Planning Date**, has been designated by the District Manager to be a wilderness lake unless, after that date, that designation is removed from such lake, in which case from the date of removal, that lake will no longer be included within this definition.

5.3.4.2 Activities Related to Wilderness Lakes

The FSP holder will:

- a.) not construct a **permanent road** to which this FSP applies within 1 kilometer of a Wilderness Lake; and
- b.) subject to any restrictions in law that limit or prevent it from doing so, as soon as practicable after it has completed use of a road that, was built after the commencement of the **Term**, the FSP Holder constructed within 1 kilometer of a Wilderness Lake, modify the road so that it will not provide **Motorized Access** to that Wilderness Lake.

5.4 Enhanced Timber Development Areas

Background Information	
Summary of Objective	<i>Enhance available timber supply and improve timber quality on Enhanced Timber Development areas identified in Map 2</i>
Source of Objective	<i>Bulkley LRMP (HLP-2006) Objectives (Objective 4.1)</i>
Date Objective in Effect	<i>November 6, 2006</i>

Result or Strategy

5.4.1 Activities Related to Mapped Enhanced Timber Development Areas

The FSP Holder will give priority to exercising the timber harvesting rights in **Mature Stands** and **Over Mature Stands** except where:

- 1) Other resource values reduce this priority;
- 2) Such harvesting will be inconsistent with the obligations of the FSP Holder under this FSP, FRPA, those licences, the Forest Act or any other legislation governing such harvesting;
- 3) Other areas become a higher priority for harvest because of pest or disease outbreaks, fire suppression or salvage or safety issues;
- 4) Prioritizing these areas for harvest impairs the ability of the FSP Holder to exercise those timber harvesting rights in a manner consistent with section 6 of the FPPR;
- 5) Third party harvesting, resource development or use or other action impairs the ability of the FSP Holder to harvest according to this priority;
- 6) The FSP Holder is unable to obtain authority to harvest according to this priority; or
- 7) The FSP Holder is directed by government to harvest in a manner inconsistent with this priority.

5.5 Outdoor Recreation

5.5.1 Recreation Opportunities

Background Information	
Summary of Objective	<i>Maintain or enhance a diverse range of recreational values and opportunities</i>
Source of Objective	<i>Bulkley LRMP (HLP – 2006) Objectives (Objective 5.1)</i>
Date Objective in Effect	<i>November 6, 2006</i>

Result or Strategy

In section 5.5.1.1, a recreation trail and site includes the following FRPA section 56 and non-FRPA recreation trails and sites as identified on Map 1:

- 1.) Dennis Lake Recreation Site (S56)
- 2.) Piper Down Recreation Site (S56)
- 3.) Ptarmigan Recreation Trails (S56)
- 4.) Smithers Community Forest Trails Recreation Site - Recreation Emphasis Area (S56)
- 5.) Twin Falls Recreation Site (S56)
- 6.) The Bluff Recreation Site (S56)
- 7.) Any FRPA section 56 interpretative forest sites, recreation sites and recreation trails, which may be designated, after the **Legislated Planning Date**.
- 8.) Passby Creek Trail
- 9.) Toboggan Creek Trail
- 10.) Glacier Gulch Trail
- 11.) Silvern Lake Trail
- 12.) Opal Ridge Trail
- 13.) Pine Creek Connector Snowmobile Trail
- 14.) Duthie West Trail
- 15.) Rockpile (aka Heavenly Bowl) Trail
- 16.) Backdoor Opal Trail

In section 5.5.1.2, the recreational emphasis area is the same as the Smithers Community Forest Trails Recreation Site.

5.5.1.1 Activities Related to Recreation Trails and Recreation Sites

The FSP holder will not harvest or construct a road to which this FSP applies within the Dennis Lake Recreation Site and Twin Falls Recreation Site, unless directed by the District Recreation Officer in collaboration with the FSP holder.

If harvesting a cutblock or constructing a road to which this FSP applies, the FSP Holder will:

- 1.) If the harvesting or construction
 - a.) is adjacent to or on a recreation trail and/or within a recreation site, and
 - b.) results in debris on the trail or site preventing access to the trail by recreational users,



as soon as practicable, after conclusion of the harvesting or construction either

- c.) remove the debris; or
- d.) if the District Manager agrees with the FSP Holder, establish new access to the trail in accordance with that agreement.

5.5.1.2 Activities Related to the Recreation Emphasis Area

If the harvesting a cutblock or constructing a road is within the Recreation Emphasis Area, the FSP holder will:

- 1.) Design forest harvesting and silviculture systems that proactively address windfall hazards.
- 2.) Not create new access points to the trail unless no practicable alternatives exist.
- 3.) Not plan forestry activities that will result in cross-country ski trail closures during the period between November 15th and April 1st. If no practicable alternative exists, the FSP holder will:
 - a.) Plan activities in a manner that has the least impact to access
 - b.) Notify the Bulkley Valley Cross Country Ski Club prior to any planned forestry, harvesting and road building activities during the period of November 15th and April 1st.
- 4.) Ensure trails or staging areas used for log hauling and/or skidding will be left free of debris and rutting on completion of forestry activities.
- 5.) Not paint or blaze trees
- 6.) Remove, after planting is completed, all flagging used to mark block boundaries
- 7.) Post signage regarding forestry activities and safety.

5.5.1.3 Activities Related to Recreational Opportunities

The FSP holder will form a Resource User Group to provide a forum for stakeholders to develop recreational opportunities within the community forest area.

5.5.2 Recreation Access

Background Information	
Summary of Objective	<i>Maintain reasonable access to a diverse range of recreational values and opportunities.</i>
Source of Objective	<i>BulkleyLRMP (HLP-2006) Objectives (Objectives 5.2)</i>
Date Objective in Effect	<i>November 6, 2006</i>

Result or Strategy

In section 5.5.2.1, a recreation feature includes the following known recreation trails and sites as identified on Map 1.

- 1) Dennis Lake Recreation Site
- 2) Piper Down Recreation Site
- 3) Ptarmigan Recreation Trail
- 4) Smithers Community Forest Trails Recreation Site
- 5) Twin Falls Recreation Site
- 6) Passby Creek Trail (Rec 203938)
- 7) Toboggan Creek Trail (Rec 203944)
- 8) Hudson Bay Glacier Trail (Rec 2041123)
- 9) Silvern Lake Trail (Rec 0651)
- 10) Opal Ridge Trail (Rec 241236)
- 11) Pine Creek Connector Snowmobile Trail (SSA)
- 12) Duthie West Trail
- 13) Rockpile (aka Heavenly Bowl) Trail
- 14) Backdoor Opal Trail
- 15) Any FRPA section 56 interpretative forest sites, recreation sites and recreation trails, which may be designated, after the **Legislated Planning Date**.

5.5.2.1 Activities Related to Recreation Access

If as of the **Date of Submission**, the FSP Holder is maintaining a road or portion thereof to which this FSP applies over which **Motorized Access** to a recreation trail or recreational site established under **FRPA** or the **FPC** by the **Legislated Planning Date** and still in effect, then if and when the FSP holder deactivates the road, the **FSP Holder** will:

- (a) if site conditions permit **Motorized Access** to be retained as of the conclusion of the deactivation, retain that access at that time; or
- (b) if site conditions do not permit **Motorized Access** to be retained as of the conclusion of the deactivation, notify the District Manager before deactivating the road and, if the District Manager and the **FSP Holder** agree, not deactivate the road.

5.6 Visual Quality

Background Information	
Summary of Objective	<i>Manage viewpoints and associated scenic areas as mapped (see Appendix C) and made available at the Landscape Level. (Scenic areas, viewpoints and visual quality objectives have been identified in Landscape Unit Plans and Bulkley Valley SRMP).</i>
Source of Objective	<i>Visual quality objectives under the Bulkley LRMP-Higher Level Plan Order signed December 19, 2000 apply to scenic areas in Bulkley TSA as grandfathered through FRPA section 181.</i>
Date Objective in Effect	<i>December 19, 2000</i>

Result or Strategy

5.6.1 Definitions

In Subparagraph 5.6.2,

“**Alteration**” means a change or something different as a result of the FSP holder conducting timber harvesting;

“**Category of Alteration**” means the applicable visual quality objective; and

“**Public Viewpoint**” means a viewpoint as determined as part of the Bulkley TSA Landscape Unit Plans and located on FSP map 3.

5.6.2 Activities in Scenic Areas

- a) If the FSP holder harvests timber in a cutblock to which this FSP applies and that is located in scenic areas identified on Map 3 the cutblock will, at the conclusion of harvesting, be consistent with the characteristics of alteration indicated in Table 6 for the applicable Category of Alteration or any category above it in Table 6.

Table 6: Characteristics of Alteration by Alteration Category

Category of Alteration (as identified through the process provided in Objective 10 of the Bulkley LRMP (HLP-2000) as of the Legislated Planning Date)	Characteristics of Alteration Caused by a Cutblock
Preservation	Forest management activities are to have no visible activity from the designated viewpoints.
Retention	Forest management activities may be discernable but not clearly visible to average viewer from the designated viewpoint. Disturbance should appear to be from natural causes.

Partial Retention	Forest management activities may be noticeable but must blend well with the natural appearance of the landscape from the designated viewpoint.
Modification	Forest management activities must have natural appearing characteristics and blend with existing landforms.

- b) The characteristics for a cutblock in subparagraph (a) are assessed:
- (i) From the public viewpoint applicable to the cutblock; and
 - (ii) Evaluated to the prespective landform(s).

5.6.3 Activities Adjacent to Private Land:

For blocks and roads within 150 meters of private land, the FSP Holder will before applying for a road permit and/or cutting permit will inform the owner of the private land of our intent to construct road and harvest timber within 150 meters of their private land. If the private landowner indicates concerns regarding the road construction or harvesting adjacent to their private land, the FSP holder will make reasonable efforts to come to an agreement with the owner of private land on strategies in regard to constructing road and harvesting timber adjacent to their private property.

5.7 Objectives set by Government for Cultural Heritage Resources

Background Information	
Summary of Objective	<i>To conserve, or, if necessary, protect cultural heritage resources that are</i> <i>a.) The focus of a traditional use by an aboriginal people that is of continuing importance of that people, and</i> <i>b.) Not regulated under the Heritage Conservation Act.</i>
Source of Objective	<i>FPPR s. 10</i>
Date Objective in Effect	<i>January 31, 2004</i>

Result or Strategy

5.7.1 Definition

In Subparagraph 5.7.2

“CHR” means a *cultural heritage resource* that is the focus of a traditional use by an aboriginal people, has evidence of past use, is of continuing importance to that people and is not regulated under the *Heritage Conservation Act*,

“qualified person” means a person who, by education and experience, is knowledgeable in identifying CHR features.

“Cultural Heritage Resource Evaluation”: means a process conducted by a qualified person and consisting of the following steps:

- a.) Record the location and nature of any cultural heritage resource;
- b.) Evaluate the direct impact of the planned development on the cultural heritage resource;
- c.) If necessary, prepare recommendations in order to conserve, mitigate, or if necessary protect, the CHR considering the factors in FPPR Schedule 1(4), to address the objectives of FPPR s.10

5.7.2 Conserving or Protecting Cultural Heritage Resources

The FSP Holder will:

- a) Provide information on proposed harvesting and road building activities to affected aboriginal groups as per the consultation processes defined by government and document CHR brought to the attention of the FSP holder through this process; and
- b) Before applying for a cutting permit or road permit the FSP holder will carry out a cultural Heritage Resource Evaluation within all blocks and roads; and
- c) Where CHR features are found provide copies of completed CHR evaluations to affected aboriginal groups prior to applying for a cutting permit or road permit; and

- d) Conduct all harvesting, road construction and mechanical site preparation activities consistent with recommendations given in the CHR evaluation referred to in subparagraph (b) that are practicable.
- e) If the **FSP Holder** encounters a previously unidentified **CHR** during harvesting, road construction or mechanical site preparation activities:
 - i.) Modify the activity to the extent necessary to protect the **CHR** until a **CHR Evaluation** is completed;
 - ii.) Ensure subsequent harvesting, road construction, or mechanical site preparation activities that are carried out in the CHR area are consistent with recommendations given in the **CHR Evaluation**, and
 - iii.) Communicate the results of the **CHR Evaluation** to the affected aboriginal group(s) and to appropriate government staff within 30 days.

5.8 Objectives set by Government for Soils

Background Information	
Summary of Objective	<i>Without unduly reducing the supply of timber from British Columbia's forests, to conserve the productivity and hydrological function of soils</i>
Source of Objective	<i>FPPR s.5</i>
Date Objective in Effect	<i>January 31, 2004</i>

Result or Strategy

5.8.1 Conservation of Soils Values

The **FSP Holder** adopts as a result or strategy applicable in the **FDU** sections 35, 36, 37, 39 and 40 of the **FPPR**.

5.9 Resource Management Zones

Background Information		
Summary of Objective	Source of Objective	Date Objective in Effect
<p>For Glacier Gulch Resource Management Zone (Sub-unit 10-1):</p> <p>Maintain:</p> <ul style="list-style-type: none"> • Visual quality within view of major river and highway corridors and recreation focus points, • Rare ecosystems • Water quality for domestic consumption and fish habitat <p>by developing timber in a manner which minimizes the effects on these values.</p>	Objective 26 in Appendix 3 to the Bulkley LRMP (HLP-2000)	December 19, 2000
<p>For Silvern Lake Resource Management Zone (Sub-unit 12-2):</p> <p>Maintain:</p> <ul style="list-style-type: none"> • Backcountry recreation opportunities • Visual quality <p>by harvesting timber only where required for approved mineral and energy exploration and development.</p>	Objective 21 in Appendix 3 to the Bulkley LRMP (HLP-2000)	December 19, 2000
<p>For Hudson Bay Mountain Resource Management Zone (Sub-Unit 10-2):</p> <p>Maintain:</p> <ul style="list-style-type: none"> • Visual quality with view of recreational focus points, and • Recreational opportunities and access <p>By developing timber in a manner which minimizes the effects of these values.</p>	Objective 27 in Appendix 3 to the Bulkley LRMP (HLP-2000)	December 19, 2000
<p>For Community Forest Resource Management Zone (Sub-Unit 10-4):</p> <p>Maintain:</p> <ul style="list-style-type: none"> • Water quality for domestic consumption • The diversity and abundance of existing species • A desired mix of habitats for biodiversity • Recreational and educational opportunities and • Visual quality within the view of highway 16 and recreational focus points <p>By developing timber in a manner which minimizes the effects in these values.</p>	Objective 29 in Appendix 3 to the Bulkley LRMP (HLP-2000)	December 19, 2000
<p>For Copper River Resource Management Zone (Sub-unit 12-2):</p> <p>Maintain:</p> <ul style="list-style-type: none"> • Visual quality within the view of the Copper River corridor and recreational focus points. • Water quality for fish habitat • Important riparian ecosystem • Red and blue listed plant communities • Steelhead fishing opportunities in an uncrowded, natural setting along the Copper River <p>By developing timber in a manner which minimizes the effects on these values, not</p>	Objective 32 in Appendix 3 to the Bulkley LRMP (HLP-2000)	December 19, 2000

<p>constructing new permanent roads within a 1 kilometer of the copper River, not expanding existing range use, and including the majority of this corridor within the Core Ecosystem.</p>		
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5.9.1.1 Definitions

In Paragraphs 5.9.2.1:

- 1) **“Glacier Gulch RMZ”** means the Glacier Gulch Resource Management Zone (Sub-unit 10-1 as specified in the Bulkley LRMP (HLP-2000),
- 2) **“Silvern Lakes RMZ”** means the Silvern Lakes Resource Management Zone (Sub-unit 12-1 as specified in the Bulkley LRMP (HLP-2000),
- 3) **“Hudson Bay Mountain RMZ”** means the Hudson Bay Mountain Resource Management Zone (Sub-unit 10-2) as specified in the Bulkley LRMP (HLP-2000),
- 4) **“Community Forest RMZ”** means the Community Forest Resource Management Zone (Sub-unit 10-4) as specified in the Bulkley LRMP (HLP-2000),
- 5) **“Copper River RMZ”** means the Copper River Resource Management Zone (Sub-unit 12-2) as specified in the Bulkley LRMP (HLP-2000),
- 6) **“RMZ’s”** means the Glacier Gulch RMZ, Silvern Lakes RMZ, Hudson Bay Mountain RMZ, Community Forest RMZ, Copper River RMZ, and to the extent any such Resource Management Zone is shown on Map 2.
- 7) **“Red-listed plant communities”** that are rare, threatened or extirpated in British Columbia and are set out by the British Columbia Ministry of Environment BC Species and Ecosystem Explorer website. The known “red-listed” plant communities are SBSdk 81 and SBSdk 82 at this time.
- 8) **“Blue-listed plant communities”** that are of special concern in British Columbia and are set out by the British Columbia Ministry of Environment BC Species and Ecosystem Explorer website. The known “blue-listed” plant communities are SBSdk 02, SBSdk 09 and ICHmc1 02 at this time.

5.9.2.1 Activities within Resource Management Zones

- 1.) The FSP holder will not construct road or harvest timber within the Silvern Lakes RMZ or Hudson Bay Mountain RMZ.
- 2.) If harvesting a cutblock or constructing a road to which this FSP applies, the FSP Holder will in the RMZ’s specified in Table 7, achieve the results or carry out the strategies specified for the RMZ in that Table;

TABLE 7: RESULTS AND STRATEGIES APPLICABLE TO RESOURCE MANAGEMENT ZONES

Resource Management Zone	Applicable Result or Strategy (Paragraph of this FSP)
<i>Glacier Gulch Resource Management Zone</i>	5.3.1 (Water, Fish, Wildlife, and Biodiversity within Riparian Areas), 5.3.2 (Fisheries Sensitive Watershed), 5.3.3 (Community Watershed), 5.6 (Visual Quality), 5.2.1 (Wildlife), 5.8 (Soils)
<i>Community Forest Resource Management Zone</i>	5.1.1 (Core ecosystem), 5.1.2 (Landscape Corridors), 5.1.3 (Seral Stage), 5.1.4 (Patch Size), 5.1.6 (Stand Structure), 5.3.3(Community Watershed), 5.5.1(Recreation Opportunities), 5.5.2(Recreation Access), 5.6.1 (Visual Quality), 5.2.1 (Wildlife)
<i>Copper River Resource Management Zone</i>	5.3.1 (Water, Fish, Wildlife, and Biodiversity within Riparian Areas 5.5.1 (Recreation Opportunities), 5.5.2 (Recreation Access), 5.6.1 (Visual Quality), 5.2.1 (Wildlife)

- 3.) In the Glacier Gulch Resource Management Zone and the Copper River Resource Management Zone, the FSP holders
- i) will not harvest or construct a road within a **red-listed plant community**, unless there is no alternative for access or stream crossings, or if harvesting is required to address safety concerns.
 - ii) Will not harvest will not authorize harvesting that will result in greater than 30% of each occurrence of a **blue-listed plant community** being harvested.
 - iii) The identification, size and location of red and blue-listed plant communities will be verified by a qualified professional.

6.0 MEASURES

6.1 Measures for Preventing the Introduction or Spread of Invasive Plants

6.1.1 Definitions

“**Disturbed Area**” means contiguous areas of exposed mineral soil greater than 0.1 ha that are associated with access structures or harvesting activities excluding the running surface of **permanent roads** or pullouts.

“**growing season**” means the time period between the last freeze in the spring and first frost in the fall.

“**Invasive Plants**” means those plants listed in the Invasive Plant Regulation.

“**revegetated**” means the establishment of non-invasive plants over more than 50% of the disturbed area (including the natural in-fill of domestic plants) that could be reasonably expected to support vegetation.

“**Seed**” means seed that meets or exceeds Canada Common No. 1 forage mixture as defined by the Canada Seeds Act and Regulations and verified noxious weed free and invasive weed free with a certificate of seed analysis.

6.1.2 Measures

In relation to section 17 of the **FPPR**, the FSP Holder will:

- (i) Seed disturbed areas no later than the end of the growing season following completion of harvesting or road construction activities.
- (ii) If treated disturbed areas are not revegetated within two growing seasons, the area will be re-seeded.

6.2 Measures to Mitigate the Loss of Natural Range Barriers

6.2.1 Definitions

“**Range Tenure**” means an agreement under the *Range Act* that provides grazing rights.

“**known natural range barrier**” means a range barrier that has been communicated to the **FSP** holder by a range tenure holder and/or the Ministry of Forests and Range.

6.2.2 Measures

In relation to section 18 of the FPPR, the FSP Holder will:

- (a) Annually, and at least 30 days before harvesting a cutblock or constructing a road to which this **FSP** applies and that is located within an area subject to a Range Tenure, inform the holder of that Range Tenure of the harvesting or construction; and
- (b) where the Range Tenure Holder or other qualified person indicates the harvesting or construction referred to in clause (a) will remove or render ineffective a known natural range barrier that a holder of a Range Tenure relies upon for the purposes of that Range Tenure:
 - (i) come to an agreement with that holder on mitigation measures, and
 - (ii) implement mitigation measures in accordance with the agreement referred to in subclause (i);

7.0 STOCKING REQUIREMENTS

7.1 Definitions

In Part 7.0:

- a) **“NSR”** means not containing a regenerated stand meeting the stocking standards in Divisions 7.3 and 7.4 and Appendices A and B of this FSP;
- b) **“M Value for Stocking and Free Growing Surveys”** means the maximum number of healthy, well-spaced trees that may be tallied in a single plot as calculated by dividing the target stocking standard for the standards unit by the plot multiplier, which, if not a whole number, is rounded to the nearest higher whole number; and
- c) **“Countable Conifer”** means a conifer tree with a height that is:
 - (i) 30 % of the median height of the preferred and acceptable well-spaced trees in the same survey plot, if that median height is less than 2 meters; or
 - (ii) 50 % of the median height of the preferred and acceptable well-spaced trees in the same survey plot, if that median height is 2 meters or greater.

7.2 Election

For the purposes of section 16(1) of the FPPR, section 44(1) of that regulation will apply to each area to which this FSP applies where the FSP Holder is required to establish a free growing stand.

7.3 General Standards

For the purposes of section 16(3) of the FPPR, for each area to which this FSP applies where the Agreement Holder is required to establish a free growing stand:

- a) the applicable regeneration date and applicable stocking standards referred to in section 44(1)(a) of the FPPR, and
- b) the applicable free growing date and applicable stocking standards referred to in section 44(1)(b) of the FPPR, and
- c) for the purposes of regeneration surveys and free to grow surveys the M Value for Stocking and Free Growing Surveys and Countable Conifer as defined in Division 7.1 will apply,

are, subject to the special circumstances in Division 7.4, as set out in Appendix A opposite the **BEC** site series that occupies the largest portion of the standards unit.

7.4 Special Circumstances

The special circumstances referred to in Division 7.3 are:

- a.) where harvesting within Core Ecosystems results in openings > 1 ha, the Reforestation Target Stocking Standard (TSS) will be equal to the Minimum

- Stocking Standards (MSS), as defined by Appendix A for the corresponding BEC site series of the site, except if fire management stocking standards (WUI-HRV) are used.
- b.) where a standards unit does not meet the tree height over deleterious competition at free growing specified in Appendix A:
 - i.) deleterious competition at the time of free growing will be assessed using Appendix 13 of the Silviculture Procedure Manual, May 1, 2018; and
 - ii.) the individual tree free growing assessment method (quadrant method) in *Appendix 13* will apply to all **BEC** subzones in the Bulkley Timber Supply Area; and
 - iii.) the definition of upland cottonwood in *Appendix 13* will be taken to mean any cottonwood not growing on a floodplain or fluvial deposit;
 - c.) aspen, cottonwood and birch are not considered deleterious competition:
 - i.) within the riparian management area of a stream, wetland or lake; or
 - ii.) where there is an incidence of greater than 20% of spruce crop trees by number affected by *Pissodes strobi* (White Pine Weevil);
 - d.) brush species within 10 meters of a **Classified Riparian Feature** are not considered deleterious competition;
 - e.) for a standards unit comprised of more than one **BEC** site series:
 - i.) the preferred and acceptable species for the standards unit includes all of the preferred and acceptable species for all of the **BEC** site series comprising the standards unit;
 - ii.) the preferred and acceptable species will be planted only where they are ecologically suited within the standards unit; and
 - iii.) the target stocking standards (stems per hectare), minimum preferred and acceptable (stems per hectare), minimum preferred (stems per hectare), minimum inter-tree distance (m) and minimum height at free growing (m) will be those of the dominant site series;
 - f.) the maximum density of countable coniferous stems is 10,000 per hectare for all **BEC** site series, except for the fire management stocking standards, where the maximum density of countable coniferous stems will be 5,000 per hectare for the SBSdk and SBSmc2 BEC subzones.
 - g.) The minimum inter-tree distance:
 - i.) May be reduced from 2.0 m to 1.6 m where Mechanical Site Preparation has been applied; or
 - ii.) Will be reduced to 1.6 m for hygic and sub-hygic Standard Units (SUs) identified by Appendix A, the minimum Inter-Tree Distance (MITD) is:
 - A. One Metre for a pair of well-spaced trees, if the next well-spaced tree is
 - B. 1.6 meters from either well-spaced trees in the pair.

- h.) exotic species planted in research trials, not exceeding the lesser of 2 hectares or 10% of the **NAR** of a cutblock, will be considered preferred trees;
- i.) for crop trees to be acceptable at the Regeneration Date and the Free growing Date they must meet the:
 - i.) Appendix 10 of the Silviculture Procedure Manual May 1, 2018.
 - ii.) Prince Rupert Forest Region, Regional Operating Standards # 1, Acceptability Criteria for Balsam Advanced Regeneration, July 22, 1997; and
 - iii.) Appendix 10b of the Silviculture Procedure Manual May 1, 2018
- j.) Partial cutting Silviculture Stocking Standards, Appendix B, may be applied to standard units, where partial cutting silviculture systems have been implemented, and where the retained stems greater than 12.5 centimeters at breast height have a combined basal area greater than 5 meter²/hectare.
- k.) Division 7.3 does not apply to an area:
 - i.) Where the timber harvested was in danger of being significantly reduced in value, lost or destroyed; and
 - ii.) The harvested area, when taken together with an adjoining harvested area, will not result in an opening with a contiguous NSR greater than or equal to 1 hectare.

7.5 Intermediate Cutting or Special Forest Products

If the FSP Holder proposes to carry out timber harvesting on an area that is subject to:

- a) commercial thinning,
- b) removal of individual trees,
- c) a similar type of intermediate cutting,
- d) harvesting of special forest products,

and as such, section 16(4) and 44(4) of the FPPR have application to this FSP. The FSP holder will for each standards unit in which it carries out timber harvesting referred to in (a) to (d), for a period of 12 months after completion of harvest:

- (i) remove less than 50% of the basal area that existed on the standards unit at commencement of harvest;
- (ii) retain at the conclusion of harvesting trees of form, health and vigor representative of the original stand condition; and
- (iii) create an opening not greater than 0.1 hectares.

8.0 SIGNATURE(S)

Signature of Person Required to Prepare the Plan
General Manager for Wetzin'kwa Community Forest Corporation and Holder of this FSP



May 5, 2020

Authorized Signatory, Jay Baker, RFT

Date

Signature of Person Preparing the Plan

I certify that this document is prepared to the standard expected of a member of the Association of British Columbia Forest Professionals



May 5, 2020

David A Louwerse, RPF 3562

Date



Appendix A: Even-aged Stocking Standards

Bio-geo-climatic									Assessment	Min. Height(ii)	
Classification		Species			Stocking(i)			Regen	Latest	Species	Ht
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target	MIN pa	MIN p	Delay (Max yrs)	(yrs)		(m)
					(well-spaced/ha)						
ESSFmc	01	1064481	BI Sx	PI ³⁴	1200	700	600	7	20	PI	1.60
										Others	0.80
ESSFmc	02	1064482	PI	BI Sx	1000	500	400	7	20	PI	1.20
										Others	0.60
ESSFmc	03	1064483	PI	BI Sx	1000	500	400	7	20	PI	1.20
										Others	0.60
ESSFmc	04	1064484	PI BI Sx		1200	700	600	7	20	PI	1.60
										Others	0.80
ESSFmc	05	1064485	BI Sx	PI ³⁴	1200	700	600	4	20	PI	1.60
										Others	0.80
ESSFmc	06	1064486	BI Sx	PI ³⁴	1200	700	600	4	20	PI	1.60
										Others	0.80
ESSFmc	07	1064487	BI Sx ³²		1200	700	600	4	20	All	0.80
ESSFmc	08	1064488	BI Sx ³²		1000	500	400	4	20	All	0.60
ESSFmc	09	1064489	BI ¹ Sx ^{1,32}		1000	500	400	4	20	All	0.60
ESSFmc	10	1064490	BI ¹ Sx ^{1,32}		1000	500	400	4	20	All	0.60
ESSFwv	01	1064491	BI Se	Hm Hw PI ³⁴	1200	700	600	7	20	PI	1.60
										Others	0.80
ESSFwv	02	1064492	PI	BI Hm Se	1000	500	400	7	20	PI	1.20
										Others	0.60
ESSFwv	03	1064493	PI	BI Hm Se Hw	1200	700	600	7	20	PI	1.60
										Others	0.80
ESSFwv	04	1064494	PI BI	Se Hm	1200	700	600	7	20	PI	1.60
										Others	0.80
ESSFwv	05	1064495	BI Se	Hm Hw PI ³⁴	1200	700	600	4	20	PI	1.60
										Others	0.80
ESSFwv	06	1064496	BI Se ³²	Hm Hw	1200	700	600	4	20	All	0.80
ESSFwv	07	1064497	BI Se ³²	Hm Hw	1000	500	400	4	20	All	0.60
ESSFwv	08	1064498	BI ¹ Se ^{1,32}		1000	500	400	4	20	All	0.60
ESSFwv	09	1064499	BI ¹ Se ^{1,32}		1000	500	400	4	20	All	0.60
ICHmc1	01	1064500	BI ²⁹ Hw ³² Sx ⁵⁶ Ba ⁵⁰	PI	1200	700	600	4	20	PI	2.00
										Others	1.00
ICHmc1	02	1064501	PI	BI Hw ³²	1000	500	400	7	20	PI	1.40
										Others	0.80
ICHmc1	03	1064502	BI ²⁹ Ba ⁵⁰ Hw ³² Sx ^{35,56}	PI	1200	700	600	4	20	PI	2.00
										Others	1.00
ICHmc1	04	1064503	BI ²⁹ Ba ⁵⁰ Sx ^{35,56} Hw ³²	PI	1200	700	600	4	20	PI	2.00
										Others	1.00
ICHmc1	05	1064504	Ba ⁵⁰ Sx ^{1,35,56} BI ^{1,29}		1200	700	600	4	20	All	1.00
ICHmc1	06	1064505	Ba ⁵⁰ Sx ^{1,56} BI ^{1,29}	Hw ^{1,32}	1000	500	400	4	20	All	0.80

Bio-geo-climatic									Assessment	Min. Height(ii)	
Classification		Species			Stocking(i)			Regen	Latest	Min. Height(ii)	
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target	MIN pa	MIN p	Delay (Max yrs)	(yrs)	Species	Ht (m)
					(well-spaced/ha)						
SBSdk	01	1064506	PI Sx	Fd ^{9,18}	1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk Climate Change 2013	01	1064507	PI Sx Fd ^{9,18,32} Lw ³²		1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk	02	1064508	PI	Sx ²⁸	1000	500	400	7	20	PI Others	1.40 0.80
SBSdk	03	1064509	PI	Sx ²⁸ Sb ²⁸	1200	700	600	7	20	PI Others	2.00 1.00
SBSdk Climate Change 2013	03	1064510	PI	Sb ²⁸ Sx ²⁸ Fd ^{9,32} Lw ^{9,32}	1200	700	600	7	20	PI Others	2.00 1.00
SBSdk	04	1064511	Fd PI Sx ²⁸		1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk Climate Change 2013	04	1064512	Fd ^{9,18,32} PI Sx ²⁸ Lw ³²		1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk	05	1064513	PI Sx ²⁸	Fd ^{9,18}	1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk Climate Change 2013	05	1064514	PI Sx ²⁸ Fd ^{9,18,32} Lw ³²		1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk	06	1064515	PI Sx	Fd ^{9,18}	1200	700	600	4	20	PI Fd Others	2.00 1.40 1.00
SBSdk Climate Change 2013	06	1064516	PI Sx Fd ^{9,18,32} Lw ³²		1200	700	600	4	20	PI Fd Others	2.00 1.40 1.00
SBSdk	07	1064517	Sx ^{1,32}	PI ¹	1000	500	400	4	20	PI Others	1.40 1.00
SBSdk Climate Change 2013	07a	1064518	Sx ^{1,32} Fd ^{9,18,32} Lw ³²	PI ¹	1000	500	400	4	20	PI Fd Others	1.40 1.40 1.00
SBSdk	08	1064519	Sx ^{1,32}		1200	700	600	4	20	All	1.00
SBSdk	09	1064520	PI ¹ Sb ¹	Sx ¹	400	200	200	4	20	PI Others	1.40 0.80
SBSdk	10	1064521	PI ¹ Sb ¹ Sx ^{1,32}		400	200	200	4	20	PI Others	1.40 0.80

Bio-geo-climatic												
Classification		Species			Stocking(i)			Regen	Assessment	Min. Height(ii)		
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target	MIN pa	MIN p	Delay (Max yrs)	Latest (yrs)	Species	Ht (m)	
					(well-spaced/ha)							
SBSmc2	01	1064522	PI Sx BI ²⁹		1200	700	600	7	20	PI Others	1.60 0.80	
SBSmc2	02	1064523	PI	BI Sx ³²	1000	500	400	7	20	PI Others	1.20 0.60	
SBSmc2	03	1064524	PI Sx ³²	BI ²⁹ Sb	1200	700	600	7	20	PI Others	1.60 0.80	
SBSmc2	05	1064525	PI Sx BI ²⁹		1200	700	600	4	20	PI Others	1.60 0.80	
SBSmc2	06	1064526	PI Sx BI ²⁹		1200	700	600	4	20	PI Others	1.60 0.80	
SBSmc2	07	1064527	PI Sb Sx ³²	BI	1000	500	400	4	20	PI Others	1.20 0.60	
SBSmc2	08	1064528	PI Sx BI ²⁹		1200	700	600	4	20	PI Others	1.60 0.80	
SBSmc2	09	1064529	Sx BI ²⁹	PI	1200	700	600	4	20	PI Others	1.60 0.80	
SBSmc2	10	1064530	Sx ^{1,32} BI ^{1,29}	PI ¹	1000	500	400	4	20	PI Others	1.20 0.60	
SBSmc2	12	1064531	Sb ¹ Sx ^{1,32}	PI ¹ BI ¹	400	200	200	4	20	PI Others	1.20 0.60	
Fire management												
SBSdk	01- WUI-HRV	1064543	PI Sx	Fd ^{9,18} At, Ep	1000	500	500	7	20	PI Fd Others	2.00 1.40 1.00	
SBSdk climate change 2013	01- WUI-HRV	1064544	PI Sx Fd ^{9,18,32} Lw ³²	At, Ep	1000	500	500	7	20	PI Fd Others	2.00 1.40 1.00	
SBSdk	02-WUI-HRV	1064545	PI	Sx ²⁸ At, Ep	1000	500	400	7	20	PI Others	1.40 0.80	
SBSdk	03-WUI-HRV	1064546	PI	Sx ²⁸ Sb ²⁸ At	1000	500	500	7	20	PI Others	2.00 1.00	
SBSdk climate change 2013	03-WUI-HRV	1064547	PI	Sb ²⁸ Sx ²⁸ Fd ^{9,32} Lw ^{9,32}	1000	500	500	7	20	PI Others	2.00 1.00	
SBSdk	04-WUI-HRV	1064548	Fd PI Sx ²⁸	At, Ep	1000	500	500	7	20	PI Fd Others	2.00 1.40 1.00	
SBSdk climate change 2013	04-WUI-HRV	1064549	Fd ^{9,18,32} PI Sx ²⁸ Lw ³²	At, Ep	1000	500	500	7	20	PI Fd Others	2.00 1.40 1.00	
SBSdk	05-WUI-HRV	1064550	PI Sx ²⁸	Fd ^{9,18} At, Ep	1000	500	500	7	20	PI	2.00	

Bio-geo-climatic									Assessment	Min. Height(ii)	
Classification		Species			Stocking(i)			Regen	Latest	Species	Ht
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target	MIN pa	MIN p	Delay (Max yrs)	(yrs)		(m)
					(well-spaced/ha)						
										Fd	1.40
										Others	1.00
SBSdk climate change 2013	05-WUI-HRV	1064551	PI Sx ²⁸ Fd ^{9,18,32} Lw ³²	At, Ep	1000	500	500	7	20	PI	2.00
										Fd	1.40
										Others	1.00
SBSdk	06-WUI-HRV	1064552	PI Sx	Fd ^{9,18} Act, At, Ep	1000	500	500	4	20	PI	2.00
										Others	1.00
SBSdk climate change 2013	06-WUI-HRV	1064553	PI Sx Fd ^{9,18,32} Lw ³²	Act, At, Ep	1000	500	500	4	20	PI	2.00
										Others	1.00
SBSdk	07-WUI-HRV	1064554	Sx ^{1,32}	PI ¹ Act, At, Ep	1000	500	500	4	20	PI	1.40
										Others	1.00
SBSdk climate change 2013	07-WUI-HRV	1064555	Sx ^{1,32} Fd ^{9,18,32} Lw ³²	PI ¹ , Ac,t At, Ep	1000	500	500	4	20	PI	1.40
										Others	1.00
SBSdk	08-WUI-HRV	1064556	Sx ^{1,32}	Act, At, Ep	1000	500	500	4	20	All	1.00
SBSdk	09-WUI-HRV	1064557	PI ¹ Sb ¹	Sx ¹	400	200	200	4	20	PI	1.40
										Others	0.80
SBSdk	10-WUI-HRV	1064558	PI ¹ Sb ¹ Sx ^{1,32}		400	200	200	4	20	PI	1.40
										Others	0.80
SBSmc2	01-WUI-HRV	1064532	PI Sx BI ²⁹	At	1000	500	500	7	20	PI	1.60
										Others	0.80
SBSmc2	02-WUI-HRV	1064533	PI	BI Sx ³² At	1000	500	400	7	20	PI	1.20
										Others	0.60
SBSmc2	03-WUI-HRV	1064534	PI Sx ³²	BI ²⁹ Sb At	1000	500	500	7	20	PI	1.60
										Others	0.80
SBSmc2	05-WUI-HRV	1064535	PI Sx BI ²⁹	Act, At	1000	500	500	4	20	PI	1.60
										Others	0.80
SBSmc2	06-WUI-HRV	1064536	PI Sx BI ²⁹	Act, At	1000	500	500	4	20	PI	1.60
										Others	0.80
SBSmc2	07-WUI-HRV	1064537	PI Sb Sx ³²	BI At	1000	500	400	4	20	PI	1.20
										Others	0.60
SBSmc2	08-WUI-HRV	1064538	PI Sx BI ²⁹	Act, At	1000	500	500	4	20	PI	1.60
										Others	0.80
SBSmc2	09-WUI-HRV	1064539	Sx BI ²⁹	PI Act, At	1000	500	500	4	20	PI	1.60
										Others	0.80
SBSmc2	10-WUI-HRV	1064541	Sx ^{1,32} BI ^{1,29}	PI Act, At	1000	500	400	4	20	PI	1.20
										Others	0.60
SBSmc2	12-WUI-HRV	1064542	Sb ¹ Sx ^{1,32}	PI ¹ BI ¹	400	200	200	4	20	PI	1.20
										Others	0.60



Conifer Tree Species

- “Ba” means amabilis fir;
- “Bl” means subalpine fir;
- “Fd” means douglas fir;
- “Hm” means mountain hemlock;
- “Hw” means western hemlock;
- “Lw” means western larch;
- “Pl” means lodgepole pine;
- “Sb” means black spruce;
- “Se” means Engelmann spruce;
- “Ss” means Sitka Spruce;
- “Sw” means white spruce;
- “Sx” means hybrid spruce or interior spruce;

Broadleaf Tree Species

- “Act” means black cottonwood;
- “At” means trembling aspen
- “Ep” means common paper birch

Footnotes:

- 1 suitable on elevated microsites
- 9 suitable on warm aspects
- 18 suitable in the eastern portion of biogeoclimatic unit
- 28 limited by moisture deficit
- 29 risk of heavy browsing by moose
- 32 limited by growing-season frosts
- 34 risk of snow damage
- 35 use resistant stock to mitigate risk of spruce weevil damage =see Ss Weevil decision tool
- 50 restricted to sites where the species occurs as a major species in a pre-harvest, natural stand



Appendix B Partial Cutting Stocking Standards

The following standards apply to assessing regeneration and free growing success for standards units, where partial cutting silviculture systems have been implemented

1.0 When do partial cutting stocking standards apply?

1.1 Standard Units with less than or equal to 5 m²/ha of retained basal area:

- a.) Even-aged stocking standards, as per Appendix A, apply to standards where the retained basal area of overstorey (Layer 1) trees is less than or equal 5 m²/ha.

1.2 Standard Units with greater than 20 m²/ha of retained basal area:

- a.) Where the basal area of acceptable retained overstorey (Layer 1) is greater than 20m²/ha, the standards unit will be considered adequately stocked.
- b.) The free-growing assessment of this standards unit may not be made until two years after the harvest completion date.

1.3 Standard Units with greater than 5m²/ha and less than 20m²/ha of retained basal area

- a.) Where the basal area of acceptable retained overstorey (Layer 1) trees is greater than 5 m²/ha and less than 20 m²/ha use the Deviation from Potential Productivity Standards (DFP) outlined below

2.0 Definitions

2.1 Overstorey (layer 1) is all live trees with a diameter at breast height (DBH) greater than or equal to 12.5 cm.

2.2 Understorey is all live trees with a diameter at breast height (dbh) less than 12.5 cm. The understorey includes poles (layer 2), saplings (layer 3) and seedlings (layer 4).

2.3 The deviation from potential productivity value is obtained from the attached **DFP (Table B)**.

3.0 Tree Acceptability Criteria:

3.1 The following rules apply to measuring overstorey trees:

- a.) All live acceptable overstorey trees count in the overstorey basal area prism sweep
- b.) No minimum inter-tree distance is applied to overstorey trees

3.2 The following rules apply to tallying understorey trees:

- a.) The even-aged minimum inter-tree distance (MITD) standard, for the standards unit, form Appendix A, will apply.

b.) Minimum Height:

- a. The minimum height at regeneration date must be greater than 10 cm.
- b. The minimum height at free growing must be greater than or equal 65% of the minimum free growing height in the even-aged stocking standard for the species for the standard unit.

c.) Understorey Minimum Stocking Standard (MSSp) requirement:

Preferred species as those listed as preferred in the even-aged stocking standards, Appendix A, for the species for the standard unit. Preferred species must be greater than or equal to 50% of the well-sped, or free-growing, stems tallied in the stratum to meet minimum stocking standards.

d.) M Value:

The maximum of number of healthy, well-spaced that may be tallied in a plot is always 8.

4.0 Sample Size Rules and Declaration of Stocking:

- a.) Stratum size <5 hectares: Declaration of stocking or free growing requires establishing a minimum of 5 plots that have a mean DFP equal to or greater than 0.20.
- b.) Stratum size 5-20 hectares: Declaration of stocking or free growing requires establishing a minimum 1 plot per ha (or achieving a standard error mean DFP ≤ 0.05) and a mean DFP less than or equal to 0.20.
- c.) Stratum size greater than 20 hectares: Declaration of stocking or free growing requires establishing a minimum 1 plot per 2 ha (or achieving a standard error of mean DFP ≤ 0.05) and a mean DFP less than or equal to 0.20.

Table B: Deviation from Potential productivity (DFP) by understorey tree density and Overstorey basal area.

OS Basal Area	Well-spaced trees in plot								
m2/ha	0	1	2	3	4	5	6	7	8
0	1.00	0.76	0.52	0.34	0.22	0.13	0.07	0.03	0.00
1	0.98	0.74	0.51	0.34	0.21	0.13	0.07	0.03	0.00
2	0.96	0.73	0.50	0.33	0.21	0.13	0.07	0.03	0.00
3	0.93	0.71	0.49	0.32	0.2	0.12	0.07	0.03	0.00
4	0.90	0.68	0.47	0.31	0.2	0.12	0.06	0.03	0.00
5	0.86	0.65	0.45	0.30	0.19	0.11	0.06	0.02	0.00
6	0.82	0.62	0.43	0.28	0.18	0.11	0.06	0.02	0.00
7	0.77	0.58	0.40	0.27	0.17	0.10	0.05	0.02	0.00
8	0.72	0.55	0.38	0.25	0.16	0.09	0.05	0.02	0.00
9	0.67	0.51	0.35	0.23	0.15	0.09	0.05	0.02	0.00
10	0.62	0.47	0.32	0.21	0.14	0.08	0.04	0.02	0.00
11	0.57	0.43	0.30	0.20	0.12	0.07	0.04	0.02	0.00
12	0.52	0.39	0.27	0.18	0.11	0.07	0.04	0.01	0.00
13	0.47	0.35	0.24	0.16	0.10	0.06	0.03	0.01	0.00
14	0.42	0.32	0.22	0.15	0.09	0.05	0.03	0.01	0.00
15	0.38	0.28	0.20	0.13	0.08	0.05	0.03	0.01	0.00
16	0.33	0.25	0.17	0.11	0.07	0.04	0.02	0.01	0.00
17	0.29	0.22	0.15	0.10	0.06	0.04	0.02	0.01	0.00
18	0.26	0.19	0.13	0.09	0.06	0.03	0.02	0.01	0.00
19	0.22	0.17	0.12	0.08	0.05	0.03	0.02	0.01	0.00
20	0.19	0.14	0.10	0.07	0.04	0.02	0.01	0.01	0.00
21	0.16	0.12	0.08	0.06	0.04	0.02	0.01	0.00	0.00
22	0.13	0.10	0.07	0.05	0.03	0.02	0.01	0.00	0.00
23	0.11	0.08	0.06	0.04	0.03	0.01	0.01	0.00	0.00
24	0.09	0.07	0.05	0.03	0.02	0.01	0.01	0.00	0.00
25	0.07	0.05	0.04	0.02	0.02	0.01	0.00	0.00	0.00
26	0.05	0.04	0.03	0.02	0.02	0.01	0.00	0.00	0.00
27	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00
28	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00
29	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Appendix B: Partial Cutting Stocking Standards

Bio-geo-climatic Zone			Species														Regen	Assessment	Min. Height(ii)	
Classification			Layer 1														Delay	Latest	Species	Ht
Zone/SZ	Site Series	Standards ID	Preferred (p)	Acceptable (a)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	(Max yrs)	(yrs)		(m)
ESSFmc	01	1064559	Bl Sx	Pl ³⁴	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80
ESSFmc	02	1064560	PI	Bl Sx	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	1.20 0.60
ESSFmc	03	1064561	PI	Bl Sx	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	1.20 0.60
ESSFmc	04	1064562	PI Bl Sx		600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80
ESSFmc	05	1064563	Bl Sx	Pl ³⁴	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	1.60 0.80
ESSFmc	06	1064564	Bl Sx	Pl ³⁴	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	1.60 0.80
ESSFmc	07	1064565	Bl Sx ³²		600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	All	0.80
ESSFmc	08	1064566	Bl Sx ³²		400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ESSFmc	09	1064567	Bl ¹ Sx ^{1,32}		400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ESSFmc	10	1064568	Bl ¹ Sx ^{1,32}		400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ESSFwv	01	1064569	Bl Se	Hm Hw Pl ³⁴	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80
ESSFwv	02	1064570	PI	Bl Hm Se	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	1.20 0.60
ESSFwv	03	1064571	PI	Bl Hm Se Hw	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80
ESSFwv	04	1064572	PI Bl	Se Hm	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80
ESSFwv	05	1064573	Bl Se	Hm Hw Pl ³⁴	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	1.60 0.80
ESSFwv	06	1064575	Bl Se ³²	Hm Hw	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	All	0.80
ESSFwv	07	1064576	Bl Se ³²	Hm Hw	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ESSFwv	08	1064577	Bl ¹ Se ^{1,32}		400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ESSFwv	09	1064578	Bl ¹ Se ^{1,32}		400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ICHmc1	01	1064579	Bl ²⁹ Hw ³² Sx ⁵⁶ Ba ⁵⁰	PI	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	2.00 1.00
ICHmc1	02	1064580	PI	Bl Hw ³²	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	1.40 0.80
ICHmc1	03	1064581	Bl ²⁹ Ba ⁵⁰ Hw ³² Sx ^{35,56}	PI	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	2.00 1.00
ICHmc1	04	1064582	Bl ²⁹ Ba ⁵⁰ Sx ^{35,56} Hw ³²	PI	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI	2.00

Bio-geo-climatic Zone			Species														Regen	Assessment	Min. Height(ii)	
Classification			Species														Delay	Latest	Species	Ht
Zone/SZ	Site Series	Standards ID	Preferred (p)	Acceptable (a)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	(Max yrs)	(yrs)		(m)
																			Others	1.00
ICHmc1	05	1064583	Ba ⁵⁰ Sx ^{1,35,56} Bl ^{1,29}		600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	All	1.00
ICHmc1	06	1064585	Ba ⁵⁰ Sx ^{1,56} Bl ^{1,29}	Hw ^{1,32}	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.80
SBSdk	01	1064586	PI Sx	Fd ^{9,18}	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk climate change 2013	01	1064587	PI Sx Fd ^{9,18,32} Lw ³²		600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk	02	1064588	PI	Sx ²⁸	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	1.40 0.80
SBSdk	03	1065589	PI	Sx ²⁸ Sb ²⁸	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	2.00 1.00
SBSdk climate change 2013	03	1064590	PI	Sx ²⁸ Sb ²⁸ Fd ^{9,32} Lw ^{9,32}	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	2.00 1.00
SBSdk	04	1064591	Fd PI Sx ²⁸		600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk climate change 2013	04	1064592	Fd ^{9,18,32} PI Sx ²⁸ Lw ³²		600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk	05	1064593	PI Sx ²⁸	Fd ^{9,18}	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk climate change 2013	05	1064594	PI Sx ²⁸ Fd ^{9,18,32} Lw ³²		600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk	06	1064595	PI Sx	Fd ^{9,18}	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Fd Others	2.00 1.40 1.00
SBSdk climate change 2013	06	1064596	PI Sx Fd ^{9,18,32} Lw ³²		600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Fd Others	2.00 1.40 1.00
SBSdk	07	1064597	Sx ^{1,32}	PI ¹	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI Others	1.40 0.80
SBSdk climate change 2013	07	1064598	Sx ^{1,32} Fd ^{9,18,32} Lw ³²	PI ¹	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI Fd Others	1.40 1.40 0.80
SBSdk	08	1064599	Sx ^{1,32}		600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	All	1.00

Bio-geo-climatic Zone			Species														Regen	Assessment	Min. Height(ii)			
Classification			Layer 1				Layer 2				Layer 3				Layer 4				Delay	Latest	Species	Ht
Zone/SZ	Site Series	Standards ID	Preferred (p)	Acceptable (a)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	(Max yrs)	(yrs)		(m)		
SBSdk	09	1064600	PI ¹ Sb ¹	Sx ¹	200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI Others	1.40 0.80		
SBSdk	10	1064601	PI ¹ Sb ¹ Sx ^{1,32}		200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI Others	1.40 0.80		
SBSmc2	01	1064602	PI Sx BI ²⁹		600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80		
SBSmc2	02	1064603	PI	BI Sx ³²	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	1.20 0.60		
SBSmc2	03	1064604	PI Sx ³²	BI ²⁹ Sb	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80		
SBSmc2	05	1064605	PI Sx BI ²⁹		600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	1.60 0.80		
SBSmc2	06	1064606	PI Sx BI ²⁹		600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	1.60 0.80		
SBSmc2	07	1064608	PI Sb Sx ³²	BI	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI Others	1.20 0.60		
SBSmc2	08	1064609	PI Sx BI ²⁹		600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	1.60 0.80		
SBSmc2	09	1064610	Sx BI ²⁹	PI	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	1.60 0.80		
SBSmc2	10	1064611	Sx ^{1,32} BI ^{1,29}	PI ¹	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI Others	1.20 0.60		
SBSmc2	12	1064612	Sb ¹ Sx ^{1,32}	PI ¹ BI ¹	200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI Others	1.20 0.60		
Fire Management																						
SBSdk-WUI-HRV	01	1064623	PI Sx	Fd ^{9,18} At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Fd Others	2.00 1.40 1.00		
SBSdk-WUI-HRV Climate Change 2013	01	1064624	PI Sx Fd ^{9,18,32} Lw ³²	At Ep	400	200	200	600	300	250	800	400	300	1000	500	500	7	20	PI Fd Others	2.00 1.40 1.00		
SBSdk-WUI-HRV	02	1064625	PI	Sx ²⁸ At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	1.40 0.80		
SBSdk-WUI-HRV	03	1064626	PI	Sx ²⁸ Sb ²⁸ At	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	2.00 1.00		
SBSdk-WUI-HRV Climate Change 2013	03	1064627	PI	Sx ²⁸ Sb ²⁸ Fd ^{9,32} Lw ^{9,32}	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	2.00 1.00		
SBSdk-WUI-HRV	04	1064628	Fd PI Sx ²⁸	At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Fd	2.00 1.40		

Bio-geo-climatic Zone			Species														Regen	Assessment	Min. Height(ii)	
Classification																	Delay	Latest	Species	Ht
Zone/SZ	Site Series	Standards ID	Preferred (p)	Acceptable (a)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	(Max yrs)	(yrs)		(m)
																			Others	1.00
SBSdk-WUI-HRV Climate Change 2013	04	1064629	Fd ^{9,18,32} PI Sx ²⁸ Lw ³²	At Ep	400	200	200	600	300	250	800	400	300	1000	500	500	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk-WUI-HRV	05	1064630	PI Sx ²⁸	Fd ^{9,18} At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk- WUI-HRV Climate Change 2013	05	1064631	PI Sx ²⁸ Fd ^{9,18,32} Lw ³²	At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk-WUI-HRV	06	1064632	PI Sx	Fd ^{9,18} Act At Ep	400	200	200	600	300	250	800	400	300	1000	500	500	4	20	PI Fd Others	2.00 1.40 1.00
SBSdk-WUI-HRV Climate Change 2013	06	1064633	PI Sx Fd ^{9,18,32} Lw ³²	Act At Ep	400	200	200	600	300	250	800	400	300	1000	500	500	4	20	PI Fd Others	2.00 1.40 1.00
SBSdk-WUI-HRV	07	1064634	Sx ^{1,32}	PI ¹	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI Others	1.40 0.80
SBSdk-WUI-HRV Climate Change 2013	07	1064635	Sx ^{1,32} Fd ^{9,18,32} Lw ³²	PI ¹ Act At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI Fd Others	1.40 1.40 0.80
SBSdk-WUI-HRV	08	1064636	Sx ^{1,32}	Act At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	1.00
SBSdk-WUI-HRV	09	1064637	PI ¹ Sb ¹	Sx ¹	200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI Others	1.40 0.80
SBSdk-WUI-HRV	10	1064638	PI ¹ Sb ¹ Sx ^{1,32}		200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI Others	1.40 0.80
SBSmc2-WUI-HRV	01	1064613	PI Sx BI ²⁹	At	400	200	200	600	300	250	800	400	300	1000	500	500	7	20	PI Others	1.60 0.80
SBSmc2-WUI-HRV	02	1064614	PI	BI Sx ³² At	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	1.20 0.60
SBSmc2-WUI-HRV	03	1064615	PI Sx ³²	BI ²⁹ Sb At	400	200	200	600	300	250	800	400	300	1000	500	500	7	20	PI Others	1.60 0.80
SBSmc2-WUI-HRV	05	1064616	PI Sx BI ²⁹	Act At	400	200	200	600	300	250	800	400	300	1000	500	500	4	20	PI Others	1.60 0.80
SBSmc2-WUI-HRV	06	1064617	PI Sx BI ²⁹	At Act	400	200	200	600	300	250	800	400	300	1000	500	500	4	20	PI Others	1.60 0.80
SBSmc2-WUI-HRV	07	1064618	PI Sb Sx ³²	BI At	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI Others	1.20 0.60
SBSmc2-WUI-HRV	08	1064619	PI Sx BI ²⁹	Act At	400	200	200	600	300	250	800	400	300	1000	500	500	4	20	PI	1.60

Bio-geo-climatic Zone			Species														Regen	Assessment	Min. Height(ii)	
Classification																	Delay	Latest	Species	Ht
Zone/SZ	Site Series	Standards ID	Preferred (p)	Acceptable (a)	Target	Layer 1		Layer 2			Layer 3			Layer 4			(Max yrs)	(yrs)		(m)
						Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)	Target	Min (p & a)	Min (p)				
																			Others	0.80
SBSmc2-WUI-HRV	09	1064620	Sx BI ²⁹	PI Act At	400	200	200	600	300	250	800	400	300	1000	500	500	4	20	PI	1.60
																			Others	0.80
SBSmc2-WUI-HRV	10	1064621	Sx ^{1,32} BI ^{1,29}	PI ¹ Act At	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI	1.20
																			Others	0.60
SBSmc2-WUI-HRV	12	1064622	Sb ¹ Sx ^{1,32}	PI ¹ BI ¹	200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI	1.20
																			Others	0.60



Appendix C: Maps