

---

**Canadian Forest Products Ltd.**

**Vanderhoof Division**



**Stellako Custom Wood Ltd.**

**FOREST STEWARDSHIP PLAN**

**Term: August 17, 2015 – Aug 16, 2020**

**Prepared: September 2, 2015**

**Original Approval Sept 21, 2005  
Amendment Requiring Approval #16  
Consistent with all amendments applied previously**

---

## TABLE OF CONTENTS

<b>1</b>	<b><i>Interpretation</i></b> .....	<b>3</b>
<b>2</b>	<b><i>Date of Submission, Implementation Date &amp; Term</i></b> .....	<b>3</b>
<b>3</b>	<b><i>Application of the Forest Stewardship Plan</i></b> .....	<b>4</b>
<b>4</b>	<b><i>Identifying Forest Development Units</i></b> .....	<b>4</b>
	<b>4.1 Forest Development Units in Effect on Date of Submission</b> .....	<b>4</b>
	<b>4.2 Forest Development Units</b> .....	<b>4</b>
	<b>4.3 Areas within the FDU's Considered to Have Received the Minister's Approval</b> .....	<b>5</b>
	<b>4.4 Items Identified in FDU's</b> .....	<b>5</b>
<b>5</b>	<b><i>Results and Strategies</i></b> .....	<b>5</b>
	<b>5.1 Order Establishing Landscape Biodiversity Objectives for the PG TSA – October 20, 20045</b> .....	
	<b>5.2 Objectives Set by Government for Soils</b> .....	<b>6</b>
	<b>5.3 Objectives Set By Government for Wildlife</b> .....	<b>6</b>
	<b>5.4 Objectives Set By Government for Water, Fish, Wildlife And Biodiversity Within Riparian Areas</b> .....	<b>6</b>
	<b>5.5 Objectives Set By Government for Wildlife and Biodiversity – Landscape Level</b> .....	<b>8</b>
	<b>5.6 Objectives Set By Government for Wildlife and Biodiversity – Stand Level</b> .....	<b>8</b>
	<b>5.7 Objectives Set By Government for Visual Quality</b> .....	<b>8</b>
	<b>5.8 Objectives Set By Government for Cultural Heritage Resources</b> .....	<b>8</b>
	<b>5.9 Objective in respect of Recreation Resources</b> .....	<b>9</b>
	<b>5.10 Objectives in respect of Wildlife Habitat Areas</b> .....	<b>9</b>
	<b>5.11 Ungulate Winter Range (UWR)</b> .....	<b>9</b>
	<b>5.12 Community Watersheds</b> .....	<b>9</b>
	<b>5.13 Fisheries Sensitive Watershed Objectives</b> .....	<b>9</b>
	<b>5.14 Objectives in respect of Agricultural Development Areas &amp; Settlement Reserve Areas</b> .....	<b>9</b>
<b>6</b>	<b><i>Measures</i></b> .....	<b>9</b>
	<b>6.1 Invasive Plants</b> .....	<b>9</b>
	<b>6.2 Natural Range Barriers</b> .....	<b>10</b>
<b>7</b>	<b><i>Stocking Requirements</i></b> .....	<b>10</b>
	<b><i>Signatures of Persons required to prepare plan</i></b> .....	<b>12</b>
	<b><i>Appendix A: Regeneration and Free Growing Stocking Standards</i></b> .....	<b>13</b>
	<b>Free Growing Stocking Standards Notes</b> .....	<b>22</b>
	<b><i>Appendix B: Forest Stewardship Plan Maps</i></b> .....	<b>23</b>

## 1 INTERPRETATION

1.1 In this Forest Stewardship Plan:

“**Date of Submission**” means the date specified in section 2.1 that this FSP was submitted to the Minister for approval;

“**Danger Tree**” means any tree that is hazardous to workers because of location, lean, physical damage, overhead hazards, deterioration of limbs, stems, or root systems;

“**FDU**” means forest development unit;

“**FPC**” means the Forest Practices Code of British Columbia Act RSBC 1996, c 159;

“**FPPR**” means the Forest Planning and Practices Regulation, as amended from time to time;

“**FRPA**” means the *Forest and Range Practices Act*, RSBC 2002, c. 69, as amended from time to time;

“**FSP**” means this Forest Stewardship Plan;

“**Holder of this FSP**” means

- (a) Canadian Forest Products Ltd. in respect of FL A18157, FL A18165 and FL A40873,
- (b) Stellako Custom Wood Limited in respect of NRFL A86572 (replacing NRFL A72920) where the cutting permit, road permit and primary forest activities are administered by Canadian Forest Products Ltd. Vanderhoof Division, and

“**Implementation Date**” means the date the Term of this FSP begins, as specified in section 2.3;

“**MSP**” means a mechanical treatment that modifies the site to provide favorable conditions for natural or artificial regeneration by means of planned soil disturbance;

“**TSA**” means Timber Supply Area;

“**Term**” means the period specified in section 2.2.

1.2 In this FSP, the singular includes the plural and the plural includes the singular, unless the context indicates otherwise.

1.3 Unless otherwise expressly indicated, or indicated by context, terms used in this FSP have the definition given them, as of the Date of Submission, in FRPA and the Forest Act and the regulations under them.

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

- 1. Part,
  - 1.1 Section,
    - 1.1.1 Paragraph
      - (a) subparagraph,
        - (i) clause, and
          - (A) subclause

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

## 2 DATE OF SUBMISSION, IMPLEMENTATION DATE & TERM

2.1 The Date of Submission is January 28, 2005.

2.2 The Term is 5 years from the Implementation Date.

2.3 The Original Implementation Date is September 21, 2005. The current extension expires on August 16, 2020.

### 3 APPLICATION OF THE FOREST STEWARDSHIP PLAN

3.1 This FSP applies to

- (a) Canadian Forest Products Ltd. for FL A18157, FL A18165 and FL A40873,
- (b) Stellako Custom Wood Limited for FL A86572 (replacing NRFL A72920) in respect of cutting permits, road permits and primary forest activities administered by Canadian Forest Products Ltd. Vanderhoof Division, and

3.2 For the purposes of section 197 (4), (5), and (7) of the FRPA,

- (a) the results, strategies, measures and stocking requirements of this FSP apply to a holder of this FSP if
  - (i) harvesting on the cutblock has not commenced,
  - (ii) the cutblock is subject to a site plan that was prepared after the implementation date, and
  - (iii) the cutblock is subject to a cutting permit that was issued after the implementation date.
- (b) the results, strategies and measures of this FSP apply to each road that is the subject of a road permit granted to a holder of this FSP if the road permit was
  - (i) granted before the implementation date, and
  - (ii) in effect on the implementation date, and
- (c) the stocking standards in this FSP apply to all cutblocks if
  - (i) harvesting on the cutblock has not commenced,
  - (ii) the cutblock is subject to a site plan that was prepared after the implementation date, and
  - (iii) the cutblock is subject to a cutting permit that was issued after the implementation date.

### 4 IDENTIFYING FOREST DEVELOPMENT UNITS

4.1 Forest Development Units in Effect on Date of Submission

Vanderhoof FDU as approved on September 21, 2005.

4.2 Forest Development Units

The following table lists the FDUs in this FSP.

Table 1.0 Forest Development Units.

FDU Name	Agreement Holder	Agreement Type & Number
<b>Vanderhoof</b>	Canadian Forest Products Ltd.	FL A18157 FL A18165 FL A40873
	Stellako Custom Wood Limited	FL A86572 (FL A72920 expired)
<b>Upper Blackwater</b>	Canadian Forest Products Ltd.	FL A18157 FL A18165 FL A40873

A portion of the Vanderhoof Forest District that was subject to the Caribou Chilcotin Land Use Plan (Upper Blackwater Special Management Zone) has been added.

#### 4.3 Areas within the FDUs Considered to Have Received the Minister's Approval

The following areas are included within the FDUs and, under FRPA and the FPPR, are considered to have received the Minister's approval:

- (a) Cutting Permits and Road Permits: as indicated on the FSP Content Maps (1:125,000 scale).

#### 4.4 Items Identified in FDUs

The maps included in this FSP show the location of the following items that were in effect on the Date of Submission:

- (a) Ungulate winter range areas, wildlife habitat areas, fisheries sensitive watersheds, lakeshore management zones, scenic areas, L1 lakes, community watersheds, old growth management areas, areas where commercial timber harvesting is prohibited by an enactment;
- (b) The areas within the FDUs that are subject to a cutting permit or a road permit held by a licensee under this FSP 4 months before the Date of Submission.

## 5 RESULTS AND STRATEGIES

### 5.1 Order Establishing Landscape Biodiversity Objectives for the PG TSA – October 20, 2004

The following definitions apply to the results and strategies in Paragraph 5.1.1 in respect of the Order establishing Landscape Biodiversity Objectives for the Prince George TSA established under section 4 of the FPC:

"ecological unit" means the unit of measurement of the old forest, interior forest and young forest patch size, as described in the Order establishing Landscape Biodiversity Objectives for the Prince George TSA;

"interior forest" has the same meaning as in the Order establishing Landscape Biodiversity Objectives for the Prince George TSA;

"old forest" has the same meaning as in the Order establishing Landscape Biodiversity Objectives for the Prince George TSA;

"participating agreement holders" means the holder of this FSP and those agreement holders not part of this FSP and who have agreed to participate in collaborative management of the old forest, interior forest and young forest patch size requirements;

"young forest" has the same meaning as in the Order establishing Landscape Biodiversity Objectives for the Prince George TSA.

5.1.1 The following results and strategies relate to the Order establishing Landscape Biodiversity Objectives for the Prince George TSA and apply to all identified FDUs:

- (a) The holders of this FSP will participate, along with all participating agreement holders, in maintaining at least the minimum target percentage of *old forest and interior forest*, as set out in the Order establishing Landscape Biodiversity Objectives for the Prince George TSA, for ecological units in the applicable FDUs;
- (b) Subject to subparagraph (c), the holders of this FSP will participate in managing *young forest* toward the target patch size distribution as set out in the Order establishing Landscape Biodiversity Objectives for the Prince George TSA, as measured from the commencement date to the expiry date of this FSP, with the other *participating agreement holders* in the ecological unit;
- (c) If a trend toward the patch size distribution cannot be achieved, the holders of this FSP will participate in providing the appropriate government agency with
- (d) a rationale for the trend away from the patch size distribution, and

- (e) a strategy for how the objective will be achieved in the shortest time as is practicable, with consideration of the participating agreement holders' harvesting rights;
- (f) The holders of this FSP will submit to the Ministry of Forests and Range on an annual basis, a map depicting the previous harvest season (April 1 to March 31) *old forest* and *old interior forest* along with tables illustrating the amounts being retained to meet the established targets, as set out in the Order establishing Landscape Biodiversity Objectives for the Prince George TSA, for ecological units in the applicable FDUs, as well as any rationales and/or strategies written as per 5.1.1 (c) or (d) during the same time period.

*Scale of Measurement:* Natural Disturbance Unit (NDU)/Merged Biogeoclimatic (BEC) units for old and interior forest, NDU/Forest District for young forest patch size distribution.

*Map Reference:* Map #1 identifies the NDU zones; Map #2 identifies the merged BEC units for the Vanderhoof District.

## 5.2 Objectives Set by Government for Soils

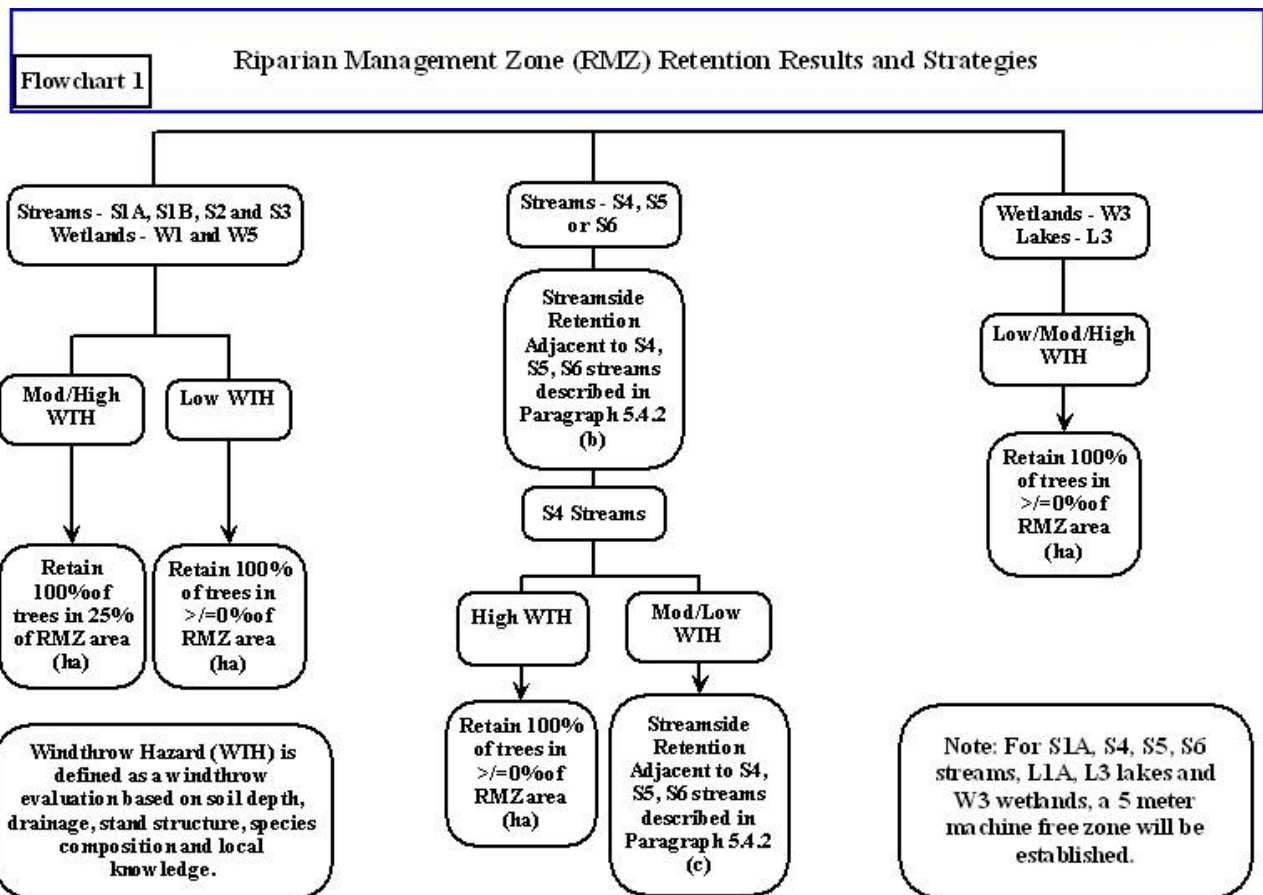
- 5.2.1 The holders of this FSP undertake to comply with sections 35 and 36 of the FPPR during the term of this plan.

## 5.3 Objectives Set By Government for Wildlife

- 5.3.1 In respect of the notice entitled "Indicators of the Amount, Distribution, and Attributes of Wildlife Habitat Required for the Survival of Species at Risk in the Vanderhoof Forest District", issued in December 2004 in accordance with section 7 of the FPPR, the results and strategies that apply for each FDU are to ensure that primary forest activities carried out by the holders of this FSP will be managed in a manner that meets the distribution and attributes set out in the notice for the Northern Caribou within the Tweedsmuir – Entiako Caribou Population Range for the term of this FSP so that no more than 6100 ha of the THLB is impacted. The Tweedsmuir – Entiako Caribou Population Range is shown on Map Number 4 FSP Content Map Vanderhoof South.

## 5.4 Objectives Set By Government for Water, Fish, Wildlife And Biodiversity Within Riparian Areas

- 5.4.1 The holders of this FSP undertake to comply with sections 47 to 51, 52 (2) and 53 of the FPPR during the Term if this plan.
- 5.4.2 For the purposes of section 12.3 (6) of the FPPR, and in accordance with section 12(3) of the FPPR, the results or strategies that apply to the areas of primary forest activity in each FDU that relate to Riparian Management Zones are
  - (a) as set out in Flowchart 1,
  - (b) for areas within 5 m of an S4, S5 and S6 stream, the holders of this FSP will retain brush species, advanced regeneration, non-merchantable conifers, and non-commercial stems, except where the holders are
    - (i) establishing stream crossings,
    - (ii) removing danger trees, and
  - (c) for areas within 10 m of an S4 stream, the holders of this FSP will retain over the length of each stream reach, an average of not less than 10 overstory trees on both sides of the stream for each 100 m of stream length, unless
    - (i) the trees to be retained are infested with primary bark beetle,
    - (ii) the area is within 5 m of either side of a skid crossing, or within the right-of-way of a stream crossing,
    - (iii) there are an insufficient number of overstory stems found within 10 m of the stream in which case the existing preharvest overstory trees within 10m of the stream will be retained,
    - (iv) the trees are removed because they are danger trees,
    - (v) the trees have roots that are embedded in the stream bank,



## 5.5 Objectives Set By Government for Wildlife and Biodiversity – Landscape Level

- 5.5.1 In relation to the objective set by government for wildlife and biodiversity set out in section 9 of the FPPR, the results or strategies that apply to the areas of primary forest activity in each FDU are the same as the results or strategies set out in section 5.1.

## 5.6 Objectives Set By Government for Wildlife and Biodiversity – Stand Level

- 5.6.1 In relation to the objective for wildlife and biodiversity at the stand level set out in section 9.1 of the FPPR, the results or strategies that apply to the areas of primary forest activity are that for the Vanderhoof FDU, the holders of this FSP will
- (a) comply with section 66 (1) and 67 of the FPPR, and
  - (b) ensure that, at the completion of harvesting in each cutblock the total amount of wildlife tree retention areas that relate to each cutblock is a minimum of 3.5% of the area of the cutblock, and
  - (c) section 5.6.1 (b) does not apply to each cutblock harvested under a blanket salvage permit.

## 5.7 Objectives Set By Government for Visual Quality

- 5.7.1 In relation to areas within scenic areas designated under GAR 7(1), and consistent with the established visual quality objectives (EVQO) established under GAR 7(2), the holders of this FSP will design cutblocks and roads so that the resulting altered forest landscape and categories as defined in Part 1 FPPR and section 1.1 are consistent with the EVQO.

*R/S Applicable to:* All FDU's

*Scale of Measurement:* Established scenic area polygons

*Map Reference:* VQO's are shown on the FSP Content Map

## 5.8 Objectives Set By Government for Cultural Heritage Resources

- 5.8.1 In Paragraph 5.8.2, "cultural heritage resource" does not include any cultural heritage resource regulated under the *Heritage Conservation Act*.
- 5.8.2 In relation to the objective set by government for cultural heritage resources set out in section 10 of the FPPR, the results or strategies that apply to each FDU are that the holders of this FSP will
- (a) make reasonable efforts to communicate development plans to affected First Nation Bands allowing opportunity for input,
  - (b) before harvesting a cutblock or constructing a road, ensure that an archaeological evaluation is conducted within areas
    - (i) that contain previously identified cultural heritage resources,
    - (ii) that are identified as having "high potential" within the established archaeological predictive map for the Vanderhoof District, or
    - (iii) for which site-specific information regarding cultural heritage resources is brought forward or made available to the holder by an aboriginal people or government employee
  - (c) if a previously unidentified cultural heritage resource is encountered during harvesting, road construction or MSP, operations will cease to the extent necessary to protect the feature, until an archeological evaluation can be carried out,
  - (d) ensure that all primary forest activities will be consistent with the recommendations given in the archaeological evaluation referred to in subparagraph (b) and (c), and
  - (e) if the holders receive site specific information concerning a cultural heritage resource that is of continuing importance, the holders, before harvesting a cutblock or constructing a road on the site, will
    - (i) record the location of the cultural heritage resource,
    - (ii) evaluate the direct impact of the cutblock or road on the cultural heritage resource,



- (iii) ensure any harvesting or road construction will conserve, or if necessary protect, the cultural heritage resource at that location, having regard to
  - (A) the relative value or importance of the cultural heritage resource to a traditional use by an aboriginal people,
  - (B) the relative abundance or scarcity of the cultural heritage resource,
  - (C) the historical extent of the traditional use of the cultural heritage resource, and
  - (D) the impact on the holders' timber harvesting rights in conserving or protecting the cultural heritage resource, and
- (iv) communicate the outcomes of clause (i) to (iii) to the party or group that provided the cultural heritage resource information.

## **5.9 Objective in respect of Recreation Resources**

- 5.9.1 Recreation areas have been established in the Vanderhoof District, but no objectives have been developed at the time of the writing of this FSP.

## **5.10 Objectives in respect of Wildlife Habitat Areas**

- 5.10.1 No wildlife area objectives have been established for any area within the FDUs.

## **5.11 Ungulate Winter Range (UWR)**

- 5.11.1 In relation to the UWR objective set out in Mule Deer Ungulate Winter Range Order - #U7-011, the result or strategy that applies to each FDU if the area is within the Mule Deer Ungulate Winter Range, is that the holders of this FSP will design cutblocks and roads so that the resulting altered forest landscape is consistent with the Order.

*Scale of Measurement:* Mule Deer UWR Habitat Units

*Map Reference:* Mule deer UWR Habitat Units are found on the FSP Content Maps

## **5.12 Community Watersheds**

- 5.12.1 No Community Watersheds have been established for any area within the FDUs.

## **5.13 Fisheries Sensitive Watershed Objectives**

- 5.13.1 No fisheries sensitive watersheds have been established for any area within the FDUs.

## **5.14 Objectives in respect of Agricultural Development Areas & Settlement Reserve Areas**

- 5.14.1 In relation to the land use objectives set by government for agricultural development areas (ADA) and settlement reserve areas (SRA) in the Minister of Agriculture and Lands Order dated November 21, 2006, when carrying out primary forest activities, the holders of this FSP will follow the practices and conditions of the Order, where these areas overlap the FDU area.

# **6 MEASURES**

## **6.1 Invasive Plants**

- 6.1.1 For the purposes of section 47 of the FRPA and section 17 of the FPPR, the measures that will be taken to prevent the introduction or spread of invasive plants are that the holders of this FSP will:
- (a) each year during the term of this FSP, using information gathered from forest district staff, regional experts or other agencies, identify sites in the Vanderhoof FDU that contain invasive plants or are considered to be a high or extremely high risk to invasive plant establishment through forest practices;
  - (b) for each cutblock that is within an identified site,

- (i) within one year of the completion of harvest, specify any treatments necessary to minimize the spread of the invasive plants, and
  - (ii) within two years of the later of completion of harvest or any applicable MSP, ensure that areas of unreforested exposed soil are
    - (A) seeded using seed that meets or exceeds Canada Common #1 specifications as defined by the *Canada Seeds Act*, and
    - (B) treated in accordance with any specifications referred to in clause (i);
  - (c) for each road that is within an identified site,
    - (i) within one year of the completion of road construction, specify any treatments necessary to minimize the spread of the invasive plants, and
    - (ii) within two years of the completion of road construction, ensure that areas of exposed soil that are within the road prism are
      - (A) seeded using seed that meets or exceeds Canada Common #1 specifications as defined by the *Canada Seeds Act*, and
      - (B) treated in accordance with any specifications referred to in clause (i);
- 6.1.2 For the purposes of section 47 of the FRPA and section 17 of the FPPR, no measures will be taken to prevent the introduction or spread of invasive plants in a cutblock or a road prism unless the cutblock or road is in an identified site referred to in paragraph 6.1.1 (a).

**Scale of Measurement:** Known locations and high or extremely high risk sites. The purpose or intent on a high risk site is: To stop the enlargement of sites in highly susceptible areas. These sites are less than or equal to 0.5 ha and must have a reasonably good expectation of control. The purpose or intent on an extremely high risk site is: To stop the spread of invasive plants threatening currently uninfested, highly susceptible areas. These sites are less than or equal to 0.25 ha and there is a good expectation of control. This priority also includes sites that are threatening a large neighboring economic base, for example, seed and other high value crops.

## 6.2 Natural Range Barriers

- 6.2.1 For the purposes of section 48 of the FRPA and section 18 of the FPPR, the measures that will be taken in respect of natural range barriers are that the holders of this FSP will:
- (a) each year during the term of this FSP, using information gathered from district range staff, identify areas within FDUs that are occupied by, or are adjacent to, agreements under the Range Act that authorize grazing, and
  - (b) for areas occupied by, or adjacent to, agreements under the Range Act that authorize grazing,
    - (i) inform the agreement holder of planned cutblocks and roads before applying for the associated cutting permit or road permit, and
    - (ii) if the agreement holder indicates that the planned cutblock or road will remove or render ineffective a natural range barrier, make reasonable efforts to implement mitigative measures.

## 7 STOCKING REQUIREMENTS

- 7.1 A holder of this FSP who is required under section 29 of the FRPA and section 44 of the FPPR to establish a free growing stand will do so in accordance with the regeneration and free growing stocking standards in Appendix A, except that
- (a) pine is

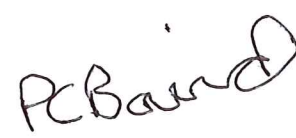
- 
- (i) a preferred species on sites where it occurs naturally and meets or exceeds 20% of the pre-harvest volume per ha, and
  - (ii) an acceptable species on sites where it occurs naturally and is less than 20% of the pre-harvest volume per ha;
- (b) the maximum countable coniferous stems per hectare in all site series is 10,000 except,
- (i) where Lodgepole pine is the leading species, the maximum countable coniferous stems per hectare for all applicable site series will be 20,000
- (c) for standards units consisting of a site series complex,
- (i) the preferred species will include all of the preferred species for all the site series comprising that unit,
  - (ii) each preferred species will only be planted where it is ecologically suited, and
  - (iii) the TSS, MSS, minimum horizontal distance, regeneration delay years and minimum height will all be those of the dominant site series;
- (d) Aspen, Cottonwood, Birch, willow and alder trees located within 5 m of an S4 stream or temperature sensitive stream are not considered deleterious brush competition;
- (e) Engelmann Spruce (Se) can be replaced with Interior Spruce (Sx) if the use of the Interior Spruce is consistent with the provincial seed transfer guidelines or the "Chief Forester's Standards for Seed Use" when they are established;
- (f) for areas subject to Order #U7-011, Ungulate Winter Range, Douglas-fir (Fdi) will only be a preferred species for compatible BEC zones within all mule deer UWR units.
- (g) In the Barlow Lake operating area a zone of high (>20%) of pine stem rust incidence (includes commandra, stalactiform, and gall rusts) has been created using RESULTS data (refer to the Barlow Operating Area – High rust Area, defined on Map Number 3 FSP Content Map Vanderhoof North). Se or Sx will move from an acceptable species to a preferred species in the following ecozones: SBSdw3-03, 04, and 05. Se or Sx will only account for a maximum of 300 well-spaced countable stems when performing regeneration and free growing surveys.

*Stocking Standards Applicable to:* All FDUs

*Map Reference:* Rust Zones are displayed on the FSP Content Map

**SIGNATURES OF PERSONS REQUIRED TO PREPARE PLAN**

<p>Preparing Forester:</p> <p>Pertaining to amendment #16 only.</p> <p>I certify that the work described herein fulfills the standards expected of a member of the Association of British Columbia Forest Professionals and that I did personally supervise the work.</p>	<p>RPF Sign and Seal</p>  <p><b>Ralph Hausot, RPF</b> <b>Planning Coordinator</b> Canadian Forest Products Ltd. Forest Management Group</p>
---	---

<p>Authorized Licensee Signature:</p>	 <p><b>Peter Baird, RPF</b> General Manager, Forest Planning Canadian Forest Products Ltd. for Stellako Custom Wood Limited</p>
---------------------------------------	---

## APPENDIX A: REGENERATION AND FREE GROWING STOCKING STANDARDS

BGC			Regeneration Guide							Free Growing Guide			
Classification			Species		Stocking(i)				Regen Delay	Assessment	Min. Height(ii)		
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa	MIN p	Max Conif st/ha	MITD meters	(Max yrs)	Latest (yrs)	Species	Ht (m)
ESSFmv1	01	1001051	Bl Se	Pl	1200	700	600	10,000	2.0	4	20	Pl	1.60
	02	1001052	Pl	Bl	1000	500	400	10,000	2.0	7	20	Others	0.80
	03	1001053	Bl Pl Se		1000	500	400	10,000	2.0	7	20	Pl	1.20
	04	1001135	Bl Se	Pl	1000	500	400	10,000	2.0	7	20	Pl	1.20
	05	1001054	Bl <sup>1,2</sup> Se <sup>1,2</sup>	Pl <sup>1</sup>	1000	500	400	10,000	2.0	4	20	Others	0.60
ESSFmv1	01	1029422	Bl Se Pl		1200	700	600	10,000	2.0	4	20	Pl	1.60
	04	1029424	Bl Se Pl		1000	500	400	10,000	2.0	7	20	Others	0.80
	05	1029425	Bl <sup>1,2</sup> Se <sup>1,2</sup> Pl <sup>1</sup>		1000	500	400	10,000	2.0	4	20	Pl	1.20
											20	Others	0.60

1,2 etc - see "Footnotes"

\*Avoid logging

\*\* Additional information or requirements may be contained in the text portion of the reference guide.

BGC			Regeneration Guide							Free Growing Guide			
Classification			Species		Stocking(i)				Regen	Assessment		Min. Height(ii)	
Zona/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa	MIN p	Max Conif st/ha	MITD meters	Delay (Max yrs)	Latest (yrs)	Species	Ht (m)
ESSFmv3	01	1001055	Bl Se	Pl <sup>34,66</sup>	1200	700	600	10,000	2.0	4	20	Pl	1.60
	02*	1001056	Pl <sup>34</sup> Se <sup>28</sup>	Bl <sup>28</sup>	1000	500	400	10,000	2.0	4	20	Others	0.80
	03	1001057	Bl Se	Pl <sup>34</sup>	1000	500	400	10,000	2.0	4	20	Pl	1.20
	04	1001136	Bl Se	Pl <sup>34</sup>	1200	700	600	10,000	2.0	4	20	Others	0.60
	05	1001058	Bl Se	Pl <sup>34</sup>	1200	700	600	10,000	2.0	4	20	Pl	1.60
	06	1001059	Bl Se	Pl <sup>34,66</sup>	1200	700	600	10,000	2.0	7	20	Others	0.80
	07	1001060	Bl <sup>1,32</sup> Se <sup>1,32</sup>	Pl <sup>1,34,66</sup>	1000	500	400	10,000	2.0	4	20	Pl	1.60
											20	Others	0.60
ESSFmv3	01	1029426	Bl Se Pl <sup>34,66</sup>		1200	700	600	10,000	2.0	4	20	Pl	1.60
											20	Others	0.80
	03	1029427	Bl Se Pl <sup>34</sup>		1000	500	400	10,000	2.0	4	20	Pl	1.20
											20	Others	0.60
	04	1029431	Bl Se Pl <sup>34</sup>		1200	700	600	10,000	2.0	4	20	Pl	1.60
											20	Others	0.80
	05	1029428	Bl Se Pl <sup>34</sup>		1200	700	600	10,000	2.0	4	20	Pl	1.60
										20	Others	0.80	
06	1029429	Bl Se Pl <sup>34,66</sup>		1200	700	600	10,000	2.0	7	20	Pl	1.60	
										20	Others	0.80	
07	1029430	Bl <sup>1,32</sup> Se <sup>1,32</sup> Pl <sup>1,34,66</sup>		1000	500	400	10,000	2.0	4	20	Pl	1.20	
										20	Others	0.60	

1,2 etc - see "Footnotes"

\*Avoid logging

\*\* Additional information or requirements may be contained in the text portion of the reference guide.

BGC			Regeneration Guide							Free Growing Guide			
Classification			Species	Stocking(i)					Regen Delay	Assessment	Min. Height(ii)		
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa	MIN p	Max Conif st/ha	MITD meters	(Max yrs)	Latest (yrs)	Species	Ht (m)
SBPSmc	01	1001062	PI	Sb Sx	1200	700	600	10,000	2.0	7	20	PI	1.60
	02*	1001063	PI	Sb Sx	1000	500	400	10,000	2.0	7	20	PI	1.20
	03	1001064	PI	Sb Sx	1200	700	600	10,000	2.0	7	20	PI	1.60
	04	1001065	PI Sb Sx <sup>1,2</sup>		1000	500	400	10,000	2.0	4	20	PI	1.20
	05	1001066	Sx <sup>1,2</sup> PI <sup>1</sup>	Sb <sup>53</sup>	1000	500	400	10,000	2.0	4	20	PI	1.20
	06	1001067	Sx <sup>1,2</sup> PI <sup>1</sup>	Sb <sup>53</sup>	1000	500	400	10,000	2.0	4	20	PI	1.20
	07*	1001068	PI <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,2</sup>		400	200	200	10,000	2.0	4	20	PI	1.20
											Others	0.60	

1,2 etc - see "Footnotes"

\*Avoid logging

\*\* Additional information or requirements may be contained in the text portion of the reference guide.

BGC			Regeneration Guide							Free Growing Guide					
Classification			Species	Stocking(I)					Regen Delay (Max yrs)	Assessment	Min. Height(II)				
Zone/SZ	Series	Standards ID		Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa	MIN p		Max Conif st/ha	MITD meters	Latest (yrs)	Species	Ht (m)	
SBSdk	01	1001089	PI Sx Fd <sup>1,18</sup>			1200	700	600	10,000	2.0	7	20	PI	2.00	
													Fd	1.40	
													Sx	1.00	
	02*	1001070	PI Sx <sup>28</sup>			1000	500	400	10,000	2.0	7	20	PI	1.40	
													Sx	0.80	
	03*	1001071	PI Sx <sup>28</sup>	Sb <sup>28</sup>			1200	700	600	10,000	2.0	7	20	PI	2.00
													Others	1.00	
	04	1001072	Fd PI Sx <sup>28</sup>			1200	700	600	10,000	2.0	7	20	PI	2.00	
													Fd	1.40	
													Sx	1.00	
	05	1001073	PI Sx <sup>28</sup> Fd <sup>9,18</sup>			1200	700	600	10,000	2.0	7	20	PI	2.00	
													Fd	1.40	
												Sx	1.00		
06	1001074	PI Sx Fd <sup>3,9,32</sup>			1200	700	600	10,000	2.0	4	20	PI	2.00		
												Fd	1.40		
												Sx	1.00		
07	1001075	Sx <sup>1,32</sup> PI <sup>1</sup>			1000	500	400	10,000	2.0	4	20	PI	1.40		
												Sx	0.80		
08	1001076	Sx <sup>1,32</sup> PI <sup>1</sup>			1200	700	600	10,000	2.0	4	20	PI	2.00		
												Sx	1.00		
09*	1001077	PI <sup>1</sup> Sb <sup>1</sup>			400	200	200	10,000	2.0	4	20	PI	1.40		
												Sb	0.80		
10*	1001078	PI <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>			400	200	200	10,000	2.0	4	20	PI	1.40		
												Others	0.80		
81	-	-	non-forested			-	-	-	-	-	-	-	-	-	
82	-	-	non-forested			-	-	-	-	-	-	-	-	-	

1,2 etc - see "Footnotes"

\*Avoid logging

\*\* Additional information or requirements may be contained in the text portion of the reference guide.



BGC			Regeneration Guide							Free Growing Guide			
Classification			Species	Stocking(I)				Regen Delay	Assessment	Min. Height(II)			
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa	MIN p	Max Conif st/ha	MITD meters	(Max yrs)	Latest (yrs)	Species	Ht (m)
SBSdw2	01	1001079	Fd <sup>32</sup> PI Sx		1200	700	600	10,000	2.0	7	20	PI	2.00
												Fd	1.40
												Sx	1.00
	02*	1001080	Fd <sup>28</sup> PI		1000	500	400	10,000	2.0	7	20	PI	1.40
												Fd	1.00
	03	1001084	Fd <sup>28,32</sup> PI		1200	700	600	10,000	2.0	7	20	PI	2.00
												Fd	1.40
	04	1001085	Fd <sup>27</sup> PI		1200	700	600	10,000	2.0	7	20	PI	2.00
												Fd	1.40
	05	1001086	Fd PI Sx		1200	700	600	10,000	2.0	7	20	PI	2.00
												Fd	1.40
											Sx	1.00	
06	1001087	Fd <sup>32</sup> PI Sx <sup>28</sup>		1200	700	600	10,000	2.0	7	20	PI	2.00	
											Fd	1.40	
											Sx	1.00	
07	1001088	PI	Sb Sx	1200	700	600	10,000	2.0	7	20	PI	2.00	
											Others	1.00	
08	1001089	Sx PI	Bl <sup>29</sup> Fd <sup>1,3,9,32</sup>	1200	700	600	10,000	2.0	4	20	PI	2.00	
											Fd	1.40	
											Others	1.00	
09	1001090	Fd PI Sx	Bl <sup>29</sup>	1200	700	600	10,000	2.0	4	20	PI	2.00	
											Fd	1.40	
											Others	1.00	
10	1001091	Sx <sup>1,32</sup> PI <sup>1</sup>	Bl <sup>1,29,32</sup>	1000	500	400	10,000	2.0	4	20	PI	1.40	
											Others	0.80	
11*	1001092	Sx <sup>1,32</sup> PI <sup>1</sup>	Sb <sup>1</sup>	400	200	200	10,000	2.0	4	20	PI	1.40	
											Others	0.80	

1,2 etc - see "Footnotes"

\*Avoid logging

\*\* Additional information or requirements may be contained in the text portion of the reference guide.

BGC			Regeneration Guide							Free Growing Guide				
Classification			Species	Stocking(I)					Regen Delay (Max yrs)	Assessment	Min. Height(II)			
Zone/SZ	Series	Standards ID		Target (well-spaced/ha)	MIN pa	MIN p	Max Conif st/ha	MITD meters		Latest (yrs)	Species	Ht (m)		
			Preferred (p)	Acceptable (a)										
SBSdw3	01	1001093	Fd PI Sx		1200	700	600	10,000	2.0	7	20	PI	2.00	
												Fd	1.40	
												Sx	1.00	
		02	1001094	Fd <sup>27</sup> PI	Sx <sup>28</sup>	1000	500	400	10,000	2.0	7	20	PI	1.40
												Fd	1.00	
												Sx	0.80	
		03	1001095	PI	Sx	1200	700	600	10,000	2.0	7	20	PI	2.00
												Sx	1.00	
		04	1001096	Fd PI	Sx	1200	700	600	10,000	2.0	7	20	PI	2.00
												Fd	1.40	
											Sx	1.00		
	05	1001097	PI	Sb Sx <sup>32</sup>	1200	700	600	10,000	2.0	7	20	PI	2.00	
											Others	1.00		
	06	1001098	PI Sx <sup>32</sup> Fd <sup>32</sup>	BI <sup>29</sup>	1200	700	600	10,000	2.0	4	20	PI	2.00	
											Fd	1.40		
											Others	1.00		
	07	1001099	Sx PI	BI <sup>29</sup>	1200	700	600	10,000	2.0	4	20	PI	2.00	
											Others	1.00		
	08	1001100	PI Sx Fd <sup>3,32</sup>	BI <sup>29</sup>	1200	700	600	10,000	2.0	4	20	PI	2.00	
											Fd	1.40		
											Others	1.00		
	09	1001101	PI <sup>1</sup> Sx <sup>1,32</sup>	BI <sup>1,29</sup>	1000	500	400	10,000	2.0	4	20	PI	1.40	
											Others	0.80		
	10*	1001102	Lt <sup>1</sup> PI <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>		400	200	200	10,000	2.0	4	20	PI	1.40	
											Others	0.80		

1,2 etc - see "Footnotes"

\*Avoid logging

\*\* Additional information or requirements may be contained in the text portion of the reference guide.

BGC			Regeneration Guide							Free Growing Guide			
Classification			Species		Stocking(i)			Regen	Assessment	Min. Height(ii)			
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa	MIN p	Max Conif st/ha	MITD meters	Delay (Max yrs)	Latest (yrs)	Species	Ht (m)
SBSmc2	01	1001103	PI Sx	BI <sup>29</sup>	1200	700	600	10,000	2.0	7	20	PI	1.60
												Others	0.80
	02*	1001104	PI	BI <sup>32</sup> Sx <sup>32</sup>	1000	500	400	10,000	2.0	7	20	PI	1.20
												Others	0.60
	03	1001105	PI Sx <sup>32</sup>	BI <sup>29</sup> Sb	1200	700	600	10,000	2.0	7	20	PI	1.60
												Others	0.80
	04	1001106	PI Sx	BI <sup>29</sup>	1200	700	600	10,000	2.0	4	20	PI	1.60
												Others	0.80
	05	1001107	PI Sx	BI <sup>29</sup>	1200	700	600	10,000	2.0	4	20	PI	1.60
												Others	0.80
	06	1001108	PI Sx	BI <sup>29</sup>	1200	700	600	10,000	2.0	4	20	PI	1.60
												Others	0.80
07	1001109	PI Sb Sx <sup>32</sup>		1000	500	400	10,000	2.0	4	20	PI	1.20	
											Others	0.60	
08	1001110	PI Sx	BI <sup>29</sup>	1200	700	600	10,000	2.0	4	20	PI	1.60	
											Others	0.80	
09	1001111	Sx PI	BI <sup>29</sup>	1200	700	600	10,000	2.0	4	20	PI	1.60	
											Others	0.80	
10	1001112	Sx <sup>1,32</sup> PI <sup>1</sup>	BI <sup>1,29,32</sup>	1000	500	400	10,000	2.0	4	20	PI	1.20	
											Others	0.60	
11	1001113	Sx <sup>1,32</sup> PI <sup>1</sup>	BI <sup>1,29,32</sup>	1000	500	400	10,000	2.0	4	20	PI	1.20	
											Others	0.60	
12*	1001114	PI <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>		400	200	200	10,000	2.0	4	20	PI	1.20	
											Others	0.60	

1,2 etc - see "Footnotes"

\*Avoid logging

\*\* Additional information or requirements may be contained in the text portion of the reference guide.

BGC			Regeneration Guide							Free Growing Guide			
Classification			Species		Stocking(I)				Regen	Assessment	Min. Height(ii)		
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa	MIN p	Max Conif st/ha	MITD meters	Delay (Max yrs)	Latest (yrs)	Species	Ht (m)
SBSmc3	01	1001115	PI Sx	Bl <sup>29</sup>	1200	700	600	10,000	2.0	7	20	PI	1.60
	02	1001116	PI	Sx	1200	700	600	10,000	2.0	7	20	Others	0.80
	03	1001117	PI	Sx	1200	700	600	10,000	2.0	7	20	PI	1.60
	04	1001118	PI Sx <sup>29</sup>	Sb	1200	700	600	10,000	2.0	7	20	Sx	0.80
	05	1001119	PI	Sb Sx <sup>32</sup>	1200	700	600	10,000	2.0	7	20	PI	1.60
	06	1001120	PI	Sb Sx <sup>32</sup>	1200	700	600	10,000	2.0	7	20	Others	0.80
	07	1001121	PI Sx	Bl <sup>29</sup>	1200	700	600	10,000	2.0	4	20	PI	1.60
	08	1001122	Sx <sup>1,32</sup> Pi <sup>1</sup>	Bl <sup>1,29,32</sup>	1000	500	400	10,000	2.0	4	20	Others	0.80
	09*	1001123	PI <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>		400	200	200	10,000	2.0	4	20	PI	1.20
										20	Others	0.60	

1,2 etc - see "Footnotes"

\*Avoid logging

\*\* Additional information or requirements may be contained in the text portion of the reference guide.

BGC			Regeneration Guide							Free Growing Guide			
Classification			Species	Stocking(I)					Regen Delay (Max yrs)	Assessment	Min. Height(I)		
Zone/SZ	Series	Standards ID		Target (well-spaced/ha)	MIN pa	MIN p	Max Conif	MITD		Latest (yrs)	Species	Ht (m)	
SBSmk1	01	1001124	PI Sx Fd <sup>3,32</sup>	BI <sup>29</sup>	1200	700	600	10,000	2.0	7	20	PI Fd Others	2.00 1.40 1.00
	02*	1001125	PI	Sx <sup>28</sup>	1200	700	600	10,000	2.0	7	20	PI Sx	2.00 1.00
	03	1001126	PI	Sx	1200	700	600	10,000	2.0	7	20	PI Sx	2.00 1.00
	04	1001127	Fd PI	Sx <sup>28</sup> BI <sup>28,29</sup>	1200	700	600	10,000	2.0	7	20	PI Fd Others	2.00 1.40 1.00
	05	1001129	PI Sx Fd <sup>3,32</sup>	BI <sup>29</sup>	1200	700	600	10,000	2.0	7	20	PI Fd Others	2.00 1.40 1.00
	06	1001130	PI	Sb Sx <sup>32</sup>	1200	700	600	10,000	2.0	7	20	PI Others	2.00 1.00
	07	1001131	PI Sx Fd <sup>3,8,32</sup>	BI <sup>29</sup>	1200	700	600	10,000	2.0	4	20	PI Fd Others	2.00 1.40 1.00
	08	1001132	Sx <sup>32</sup> PI	BI <sup>28,32</sup>	1200	700	600	10,000	2.0	4	20	PI Others	2.00 1.00
	09	1001133	Sx <sup>1,32</sup> PI <sup>1</sup>	BI <sup>1,28,32</sup>	1000	500	400	10,000	2.0	4	20	PI Others	1.40 0.80
	10*	1001134	PI <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>		400	200	200	10,000	2.0	4	20	PI Others	1.40 0.80

1,2 etc - see "Footnotes"

\*Avoid logging

\*\* Additional information or requirements may be contained in the text portion of the reference guide.

## Free Growing Stocking Standards Notes

- 1) These notes form an integral part of the stocking standards.
- 2) These stocking standards apply to all Forest Development Units covered under this Forest Stewardship Plan.
- 3) Pine will be considered a preferred species within ESSF sites where it occurs naturally in existing stands and exceeds 20% of the volume per hectare. Pine will be considered an acceptable species on sites where it occurs naturally in existing stands and is less than 20% of the volume per hectare.
- 4) The preferred species for a standards unit (SU) consisting of a site series complex will include all of the preferred species for all the site series comprising that unit, with the understanding that the preferred species will only be planted where they are ecologically suited within the SU. The TSS, MSS, minimum horizontal distance, regeneration delay years and minimum height will all be those of the dominant site series.
- 5) Engelmann Spruce (Se) can be replaced with Interior Spruce (Sx) if the provincial seed transfer guidelines or the “Chief Forester’s Standards for Seed Use” when they are established, are followed.
- 6) For the purposes of determining the number of stems per hectare (sph), the following coniferous trees will be counted:
  - a) a tree that is at least
    - (i) 50% of the median height of the preferred and acceptable well spaced trees in the survey plot, if the median height is 2 m or greater, or
    - (ii) 30% of the median height of the preferred and acceptable well spaced trees in the survey plot, if the median height is less than 2 m;
- 11) Maximum post spacing densities will be Target plus 800 sph

### **Comment on Stocking Standards referred to in Sections 16 (4) and 44 (4) of the FPPR.**

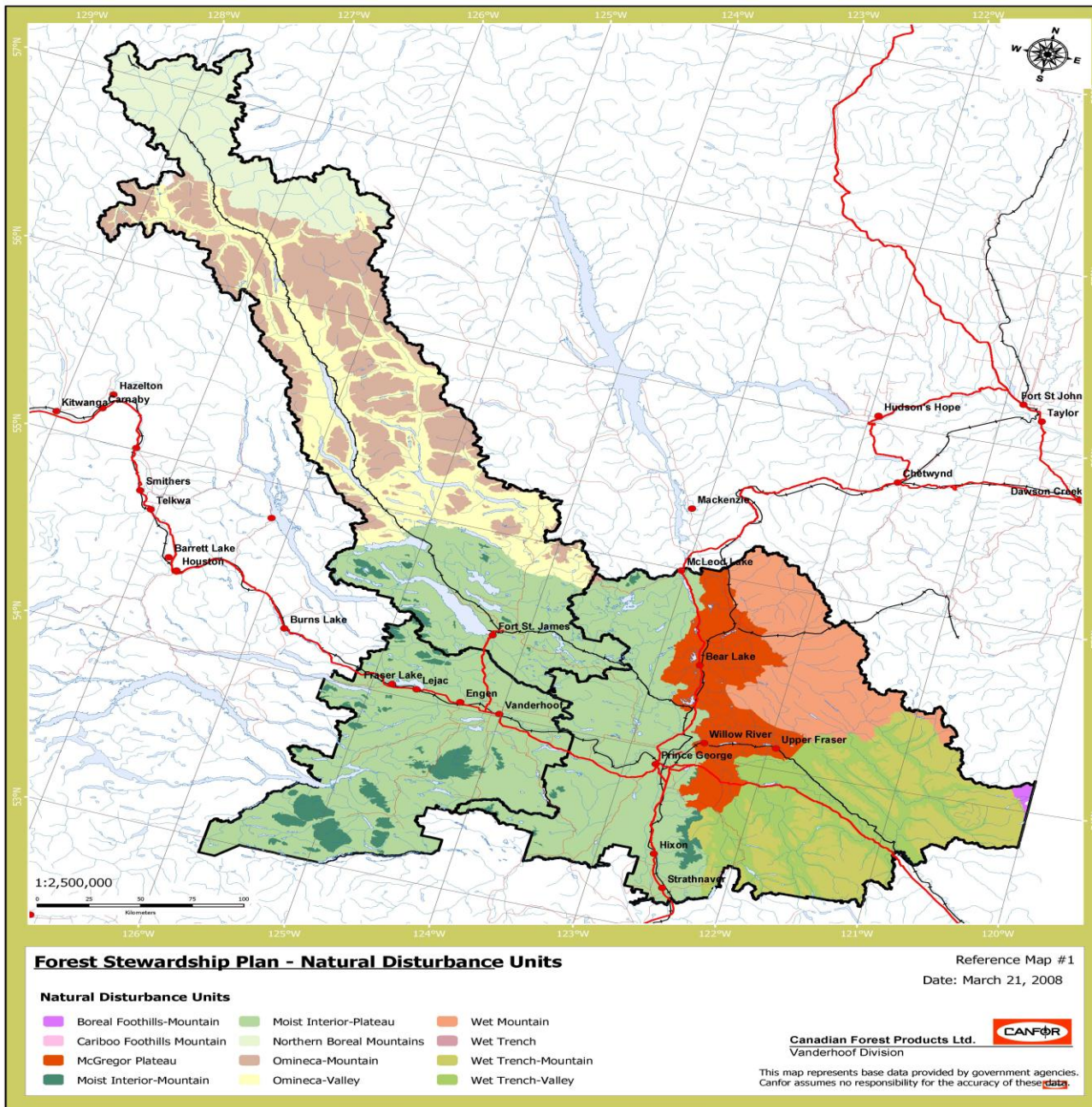
There are no situations or circumstances within the scope of the current Forest Stewardship Plan that require Stocking Standards as specified in Section 16 (4) and 44(4) of the FPPR. As such, no stocking standards are being proposed for commercial thinning, removal of individual trees or a similar type of intermediate cutting, or for the harvesting of special forest products.

**APPENDIX B: FOREST STEWARDSHIP PLAN MAPS**

Summary of FSP Maps

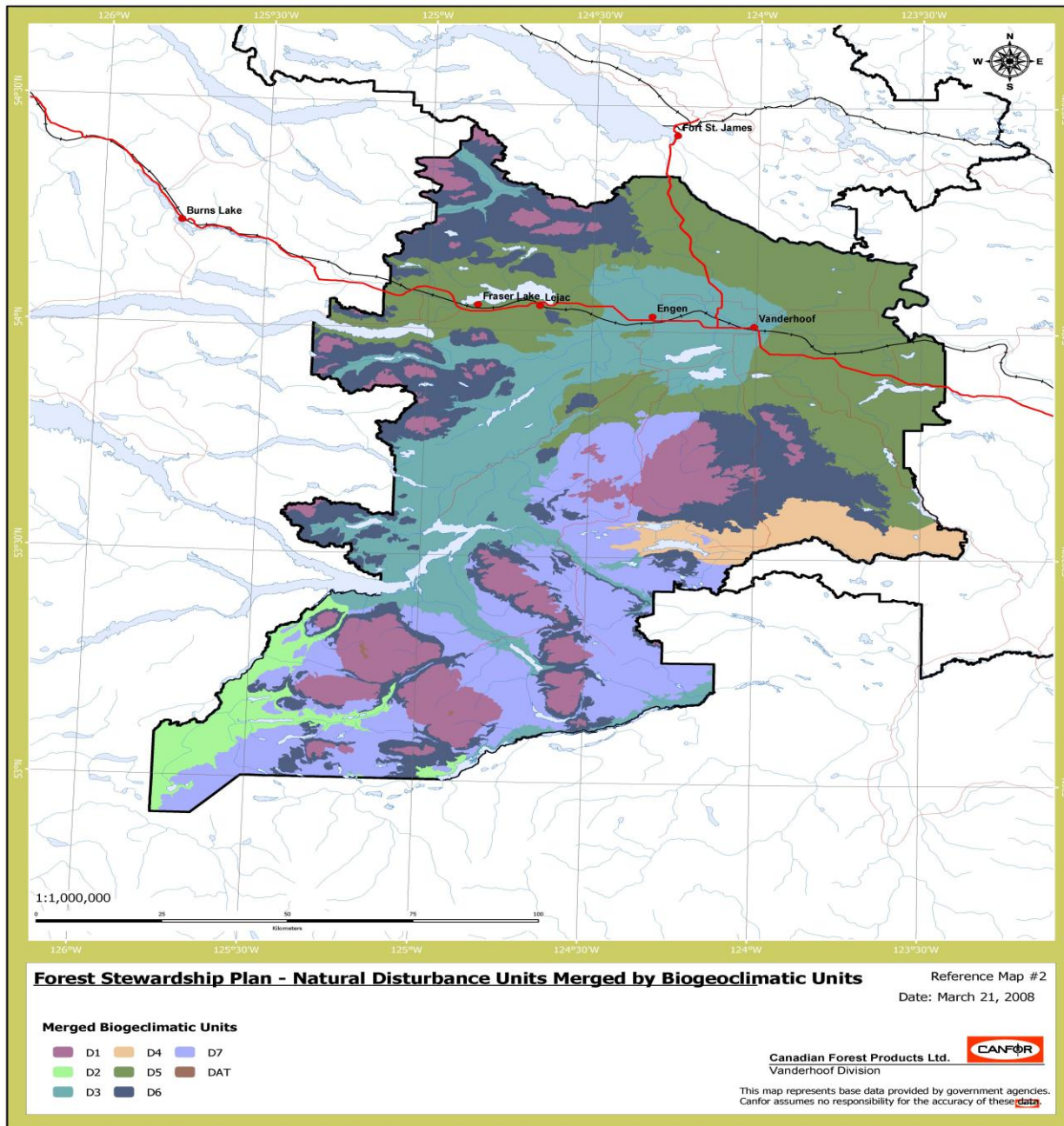
<b>Map Number</b>	<b>Map Reference</b>
1	Natural Disturbance Unit for the Prince George TSA
2	Merged BEC Units for the Vanderhoof District
3	FSP Content Map Vanderhoof North
4	FSP Content Map Vanderhoof South





Map 1





Map 2