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August 9, 2024

Resource User Group

Sent via email.

Re: Wetzin'kwa Community Forest Corporation Forest Stewardship Plan extension

The Wetzin'kwa Community Forest Corporation (WCFC) provides this letter to invite the Resource User Group to review and comment on the extension of WCFC's Forest Stewardship Plan (FSP).

The *Forest and Range Practices Act* requires that a community forest tenure have an FSP. The Act also includes provisions to extend an FSP. Please find attached a draft copy of the FSP extension, a draft copy of the FSP Supplemental Information, a brief description of changes made to both documents, and required maps. As the FSP is an extension of the current FSP we have provided a version that shows where changes have been made in the FSP using the Tracked Changes tool in Microsoft Word. We have also provided line numbers and page numbers that we hope provide easy reference for any feedback you may want to provide.

WCFC's current FSP expires in November 2024 and could be extended by five years to 2029. Please provide comments within the next 30 days via email or if you prefer to set up a meeting to discuss the FSP extension, please respond to [management@wetzinkwa.ca](mailto:management@wetzinkwa.ca) or phone the undersigned at (250) 847-3680 or (250) 634-4050.

Sincerely,

A handwritten signature in black ink, appearing to read "Sam Coggins", is written over a faint, larger version of the same signature.

Sam Coggins, PhD RPF  
General Manager  
Wetzin'kwa Community Forest Corporation

Cc:

Natasha Lebiadowski, TFT, Project Manager – Operations



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

Extension Approved: ?????  
Extension Submitted: ?????  
Original Approved: November 2020  
Original Submitted: May 5, 2020

## Table of Contents

1.0	INTERPRETATION .....	<u>45</u>
1.1	Wetzin'kwa Community Forest K2P - Management Plan .....	<u>45</u>
1.1.1	Forest Stewardship Plan – Contributing Sections .....	<u>45</u>
1.1.2	Forest Stewardship Plan Extension .....	<u>45</u>
1.2	Definitions .....	<u>45</u>
1.3	Definitions for legislation .....	<u>67</u>
1.4	Abbreviations .....	<u>67</u>
1.5	Organization .....	<u>78</u>
1.6	Changes to Legislation .....	<u>78</u>
1.7	Appendices Part of FSP .....	<u>78</u>
1.8	Objectives Cancelled .....	<u>78</u>
2.0	APPLICATION OF THIS FSP .....	<u>78</u>
2.1	Licences .....	<u>78</u>
2.2	Application of this FSP to Permits Issued during Term of Previous FSP .....	<u>78</u>
2.3	Application of this FSP's Stocking Standards .....	<u>88</u>
2.4	Review and Comment by First Nations and the Public .....	<u>89</u>
3.0	TERM OF THIS FSP .....	<u>89</u>
3.1	Commencement of Term .....	<u>89</u>
3.2	Length of Term .....	<u>89</u>
4.0	IDENTIFYING FOREST DEVELOPMENT UNITS .....	<u>89</u>
4.1	Boundaries of FDU .....	<u>89</u>
4.2	Areas Considered Approved .....	<u>89</u>
4.3	Designations in Effect Four Months Prior to 2024 Extension of the FSP .....	<u>910</u>
5.0	RESULTS OR STRATEGIES .....	<u>1011</u>
5.1	Objectives set by Government for Biodiversity .....	<u>1011</u>
5.1.2	Connectivity: Landscape Corridors .....	<u>1314</u>
5.1.3	Seral Stage .....	<u>1415</u>
5.1.4	Wildlife and Biodiversity – Landscape Level .....	<u>1516</u>
5.1.5	Tree Species Diversity .....	<u>1617</u>
5.1.6	Stand Structure .....	<u>1718</u>
5.2	Objectives set by Government for Wildlife .....	<u>1920</u>
5.3	Objectives set by Government for Fish Habitat and Water Quality .....	<u>2122</u>
5.3.1	Objectives set by Government for Water, Fish, Wildlife and Biodiversity within Riparian Areas .....	<u>2122</u>
5.3.2	Objectives Set by Government for Fish Habitat in Fisheries Sensitive Watersheds ....	<u>2324</u>
5.3.3	Objectives Set by Government for Water in Community Watersheds .....	<u>2425</u>
5.3.4	Objectives for Fish Habitat .....	<u>2526</u>
5.4	Enhanced Timber Development Areas .....	<u>2627</u>
5.4.1	Activities Related to Mapped Enhanced Timber Development Areas .....	<u>2627</u>
5.5	Outdoor Recreation .....	<u>2728</u>
5.5.1	Recreation Opportunities .....	<u>2728</u>
5.5.2	Recreation Access .....	<u>2829</u>
5.6	Visual Quality .....	<u>2930</u>
5.6.2	Activities in Scenic Areas .....	<u>3031</u>



5.7	Objectives set by Government for Cultural Heritage Resources .....	<u>3132</u>
5.8	Objectives set by Government for Soils.....	<u>3233</u>
5.9	Resource Management Zones .....	<u>3334</u>
6.0	MEASURES .....	<u>3637</u>
6.1	Measures for Preventing the Introduction or Spread of Invasive Plants.....	<u>3637</u>
6.2	Measures to Mitigate the Loss of Natural Range Barriers.....	<u>3738</u>
7.0	STOCKING REQUIREMENTS.....	<u>3738</u>
7.1	Definitions.....	<u>3738</u>
7.2	Election.....	<u>3839</u>
7.3	General Standards.....	<u>3839</u>
7.4	Special Circumstances.....	<u>3839</u>
7.5	Intermediate Cutting or Special Forest Products.....	<u>4040</u>
8.0	SIGNATURE(S) .....	<u>4141</u>
	Appendix A: Even-aged Stocking Standards .....	<u>4242</u>
	Appendix B Partial Cutting Stocking Standards .....	<u>5048</u>
	Appendix C: Maps .....	<u>5256</u>

DRAFT

## 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 [Community 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.

#### 1.1.2. Forest Stewardship Plan Extension

[This FSP was originally developed in 2020, submitted and approved in the same year. In light of forest landscape planning being undertaken in the Bulkley-Morice Timber Supply Areas \(TSA's\) Wetzin'kwa Community Forest Corporation submitted a request to Ministry of Forests, District of Skeena-Stikine to extend the FSP.](#)

[The extension uses the current FSP as a baseline. The extension is subject to District Manager expectations, as provided in the District Manager Expectations Letter.](#)

[Since 2020 reconciliation efforts, provincial and District-level legal and non-legal guidance have each advanced. Therefore, the FSP extension addresses comments and concerns provided through consultation completed with First Nations, specific to the extension. Furthermore, guidance was provided by the Ministry of Forests staff from District of Skeena-Stikine.](#)

## 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

- 47 road deactivation activities. (note that gated roads that have no other restriction on  
48 motorized access are not considered “closed”)  
49
- 50 (d) “**Effective Date**” means the date the **Term** commences, as specified in Division 3.2  
51
- 52 (e) “**FSP Holder**” means a holder of a licence specified in Division 2.1  
53
- 54 (f) “**Legislated Planning Date**” means:  
55 (i) subject to sub-clause (ii), the date 4 months before the **Submission Date**; or  
56 (ii) if an enactment or an established objective requires that a date different than  
57 the date referred to in sub-clause (i) be applied under this FSP, then that  
58 different date;  
59
- 60 (g) “**Main Haul Road**” means a forestry road used to access an entire landscape unit or  
61 operating area and, for greater certainty, but without limiting the foregoing, means, as  
62 of the **Submission Date**, the following road in the community forest agreement area:  
63 7000 road.  
64
- 65 (h) “**Map**”, when followed by a number, means the map of that number in Appendix C  
66 to this FSP;  
67
- 68 (i) “**Mapped Habitat**” means the area of wildlife habitat for a species, as shown on  
69 Map 2 of this FSP.  
70
- 71 (j) “**Mature Stand**” and “**Over Mature Stand**” is defined as >120 yr in the MHmm2  
72 and ESSFmc/mk/wv; as >100 yr in the ICHmc1/mc2 and SBSdk/mc2; and as >80 yr  
73 in the CWHws2.  
74
- 75 (k) “**Motorized Access**” means access that permits the passage of insurable 2 wheel drive  
76 or 4 wheel drive motor vehicles not intended for off-road usage;  
77
- 78 (l) “**Open Road**” means a road without restrictions on motorized access (note that gated  
79 roads that have no other restriction on motorized accesss are considered “open”);  
80
- 81 (m) “**Open Road density**” means the linear distance of open roads per square kilometer.  
82
- 83 (n) “**Patch**” means stand of trees that is larger than 1 hectare in size, even aged and  
84 differing in age from adjacent stands by more than 20 years;  
85
- 86 (o) “**Permanent Road**” means a road intended to facilitate long term harvesting, hauling  
87 and silviculture activities, typically planned to be maintained for longer than 5 years.  
88
- 89 (p) “**Classified Riparian Feature**” means a stream, wetland or lake with a riparian  
90 class determined under Division 3 (*Riparian areas*) of Part 4 (*Practice*  
91 *requirements*) of the **FPPR**;  
92
- 93 (q) “**Qualified Professional**” means a person who by education, experience and  
94 professional credentials is considerable knowledgeable and able to provide expert  
95 advice on a given subject in a given situation.  
96

- 97 (r) **“Rotation”** means the time needed from regeneration of crop trees until those trees  
98 are harvestable timber and, for greater certainty, but without limiting the foregoing,  
99 means for the SBS 80-100 years and for the ESSF/ICH/CWH/MH 100-120 years;  
100
- 101 (s) **“Submission Date”** means the date this FSP is submitted for approval, as specified  
102 in Division 3.1:  
103
- 104 (t) **“Temporary Road”** means a road intended to facilitate short term harvesting, hauling  
105 and silviculture activities, typically planned to be an **Inaccessible Road** within two  
106 years of construction; and  
107
- 108 (u) **“Term”** means the period during which this FSP is in effect, as determined from  
109 Divisions 3.2.  
110
- 111 (v) **“WTRA”** means Wildlife Tree Retention Area and is an area occupied by  
112 wildlife trees that is (a) located in a cutblock, (b) in an area contiguous to a  
113 cutblock, or (c) in an area close to the cutblock that the wildlife trees could  
114 directly impact on, or directly impacted by, a forest practice carried out in the  
115 cutblock.

### 116 1.3 Definitions for legislation

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

### 120 1.4 Abbreviations

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

137 (o) “NDT” means Natural Disturbance Type

138 (p) “VQO” means Visual Quality Objective

## 139 **1.5 Organization**

140 This FSP is divided into parts, divisions’ paragraphs, subparagraphs, clauses and subclauses, illustrated  
141 as follows:  
142

143  
144 1. Part;

145 1.1 Division;

146 1.1.1 Paragraph;

147 1.1.1.1 Subparagraph;

148 (a) Clause;

149 (i) Sub-clause,  
150

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

## 154 **1.6 Changes to Legislation**

155 If legislation referred to in this FSP is renamed or a provision of legislation referred to in this FSP is  
156 renumbered, the reference in this FSP is to be construed as a reference to the provision as renamed or  
157 renumbered, as the case may be.  
158

## 159 **1.7 Appendices Part of FSP**

160 The Appendices to this FSP are a part of this FSP and any reference in this FSP to this FSP includes a  
161 reference to the Appendices.  
162

## 163 **1.8 Objectives Cancelled**

164 If an established objective for which a result or strategy is included under this FSP is cancelled, the  
165 result or strategy under this FSP pertaining to that objective is no longer practicable, effective on the  
166 date of cancellation of the objective.  
167

## 168 **2.0 APPLICATION OF THIS FSP**

### 169 **2.1 Licences**

170 In respect of Wetzin’kwa Community Forest Corporation this FSP applies to Community Forest  
171 Licence K2P.  
172

### 173 **2.2 Application of this FSP to Permits Issued during Term of Previous FSP**

174 For the purposes of Section 21(2) of the FRPA, with the exception of Stocking Standards, this FSP does  
175 not apply to a cutting permit or road permit issued under a previous FSP.  
176



## 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.
- ~~(c)~~
- ~~(d)~~ (b)

## 2.4 Review and Comment by First Nations and the Public

Engagement and consultation will be completed with First Nations as described in section 5.7 of this plan. In addition the draft plan will be provided for review and comment by First Nations whose values and interests have the potential to be impacted by forest harvesting and road building activities conducted by Wetzin'kwa Community Forest Corporation.

Throughout the **Term** of the plan information about proposed harvesting and road building activities will be provided to a forum of stakeholders, referred to in this Plan as the Resource User Group. Information will be provided in order to elicit feedback. The Resource User Group was formed to encourage stakeholders to participate in conversations about potential recreational impacts.

## 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

217 For the purposes of sections 14(3)(j) of the FPPR, the cutting permits and road permits held by the  
 218 **FSP Holder** under the licence referred to in Paragraph 2.1 and within the FDU- are ~~as follows:~~ is a  
 219 1 CP: K2P-AA.  
 220

<del>RP-R16534</del>	<del>CP-238</del>
<del>CP-237</del>	<del>CP-123</del>
<del>CP-124</del>	<del>CP-307</del>

221 **4.3 Designations in Effect Four Months Prior to 2024 Extension**  
 222 **Submission of the FSP**

223  
 224 **Table 1:** The designations in effect at the time of the submission of this FSP are

<b>Designation</b>	<b>Legal Order Reference Number</b>	<b>Effective Date</b>
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, <del>and</del> 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

225  
 226 Maps 1, 2 and 3 Appendix C identifies all of the other things, required to be identified in section  
 227 14(3)(a)-(i) of the FPPR.  
 228

229 **5.0 RESULTS OR STRATEGIES**

230 **5.1 Objectives set by Government for Biodiversity**

231 **5.1.1 Ecosystem Representation: Core Ecosystems**

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

232 **Result or Strategy**

233 **5.1.1.1 Definitions**

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

237

238 **5.1.1.2 Limitation on Roads and Harvesting in Core Ecosystems**

239  
240 If harvesting a cutblock or constructing a road to which this FSP applies and within a Core  
241 Ecosystem, the FSP Holder will:

242 (a) not construct a:

244 (i) permanent access structure; or

246 (ii) a permanent road,

247  
248 in that Core Ecosystem unless:

249  
250 (iii) in the case of either a permanent access structure or a permanent road,  
251 there is no other practicable option for conducting the harvesting  
252 described in clause (b); in which case roads will be permanently  
253 deactivated following harvesting; or

254  
255 or

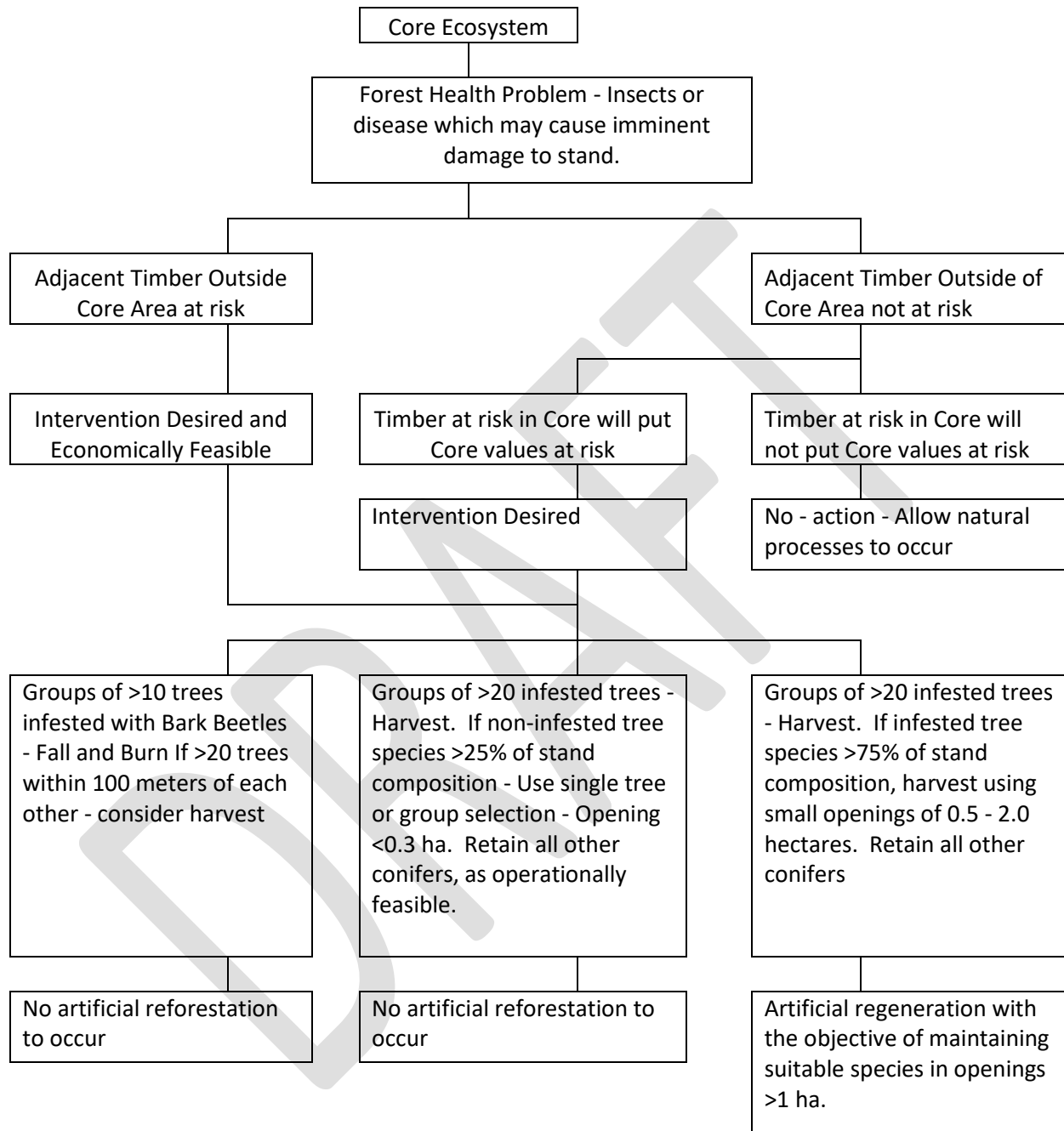
256  
257 (iv) in the case of a road, it is the only practicable option for accessing  
258 operable timber outside the Core Ecosystem; and

259  
260 (b) undertake that harvesting in accordance with Figure 1.

261  
262 (c) Ensure timber harvesting and road building do not occur within rare and endangered  
263 plant communities located in Core Ecosystems.

264  
265 (d) This subsection applies where timber in a Core Ecosystem is in danger of being  
266 damaged, significantly reduced in value, lost or destroyed, and/or poses a hazard to  
267 public safety and the original Core Ecosystem values are at risk. In these  
268 circumstances the FSP holder may develop treatment unit plans, subject to approval  
269 from the District Manager that facilitates harvesting of the affected timber. In all cases,  
270 the Bulkley TSA LRMP balance must be maintained through the introduction of an  
271 offsetting constrained area deemed acceptable by the District Manager.  
272

273 **Figure 1. Decision Matrix for Harvesting in Core Ecosystems**  
 274



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.

275  
276

## 5.1.2 Connectivity: Landscape Corridors

Background Information	
<b>Summary of Objective</b>	<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>
<b>Source of Objective</b>	<i>Bulkley LRMP (HLP-2006) Objectives (Objective 1.3)</i>
<b>Date Objective in Effect</b>	<i>November 6, 2006</i>

278

## Result or Strategy

279

### 5.1.2.1 Definitions

280

281

In Subparagraph 5.1.2.2:

282

- (a) **“Functional Old Forest”** means coniferous leading or deciduous leading forest older than 80 years; and

283

284

285

- (b) **“Landscape Corridor”** means a landscape corridor shown on Map 5 in the **Bulkley LRMP (HLP - 2006)** as of the **Legislated Planning Date**.

286

287

288

- (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.

289

290

291

### 5.1.2.2 Limits on Activities in Landscape Corridors

292

293

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

294

295

- 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;

296

297

298

299

- 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.

300

301

302

303

- c) limit the size of each clearcut opening within the cutblock, so that it does not exceed the greater of:

304

305

306

307

- (i) 3.0 hectares; or

308

309

- (ii) if the **Landscape Corridor** is infested by insects;

310

- 311 A. the area necessary to harvest the infested timber and  
 312 B. if the clear-cut opening is greater than 3.0 hectares maintain a minimum  
 313 100 meter wide **Functional Old Forest** corridor associated with the clear-  
 314 cut opening within the **Landscape Corridor**.  
 315  
 316 d) Within harvested areas greater than 1 ha retained to the extent practicable, a  
 317 minimum of 60 stems per hectare of which 50% are greater than or equal to 15  
 318 cm at DBH.  
 319  
 320 e) not build a permanent access structure unless no other practicable alternative  
 321 exists for accessing or extracting timber; and  
 322  
 323 f) not construct a road outside a cutblock but within the **Landscape Corridor** unless no  
 324 other practicable option exists for accessing or extracting timber outside the **Landscape**  
 325 **Corridor**.  
 326

327 **5.1.3 Seral Stage**

328  
329  
330

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

331 **Result or Strategy**

332 **5.1.3.1 Definitions**

333

334 In Subparagraphs 5.1.3.2 and 5.1.3.3:

335

- 336 (a) “**Seral Stage Target**” means the seral-stage targets by landscape unit and **BEC**  
 337 subzone set out in Table 1 of Objective 1.1 in the **Bulkley LRMP (HLP - 2006)** as of  
 338 the **Legislated Planning Date**; and  
 339  
 340 (b) “**Old**”, “**Mature**” and “**Young**” have the meaning given them in Objective 1.1 in the  
 341 **Bulkley LRMP (HLP - 2006)** as of the **Legislated Planning Date**.  
 342

343 **5.1.3.2 Limits on Activities to Maintain Natural Seral Stage Distribution**

344

345 Subject to Subparagraph 5.1.3.3, if harvesting a cutblock greater than 1 hectare in size to which this FSP  
 346 applies, the FSP Holder will not by, and as of the conclusion of, that harvesting, cause the amount of:  
 347

348

- (a) **Old, or Mature and Old** timber to fall below; or

349

- (b) **Young** timber to exceed,

350

351

352 the applicable **Seral Stage Target**.

353 **5.1.3.3 Limits on Activities Where Targets Already Not Met**

354  
355 If, as of the commencement of harvesting referred to in Subparagraph 5.1.3.2, the amount of:

- 357 (a) **Old or Mature and Old** timber is less than; or
- 358
- 359 (b) **Young** timber is greater than,

360  
361 the applicable Seral Stage Target, such harvesting will be limited to an amount that is:

- 362 a) consistent with a rate of harvesting that enables the **Seral Stage Targets** for **Old and**
- 363 **Mature and Old** to be achieved over a **Rotation** and,
- 364
- 365 b) where the amount of **Old** is below the applicable **Old Seral Stage Target**, not harvest
- 366 in areas apply for cutting permits containing **Old** seral forest, unless, harvesting is
- 367 required to develop an access structure and no other practicable alternative exists for
- 368 accessing or extracting timber.
- 369
- 370

371 **5.1.4 Wildlife and Biodiversity – Landscape Level.**

372

Background Information	
<b>Summary of Objective</b>	<i>The objective set by government for wildlife and biodiversity at the landscape level is, to the extent practicable, to design areas on which timber harvesting is to be carried out that resemble, both spatially and temporally, the patterns of natural disturbance that occur within the landscape. 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>
<b>Source of Objective</b>	FPPR s.9
<b>Date Objective in Effect</b>	January 31, 2004

373

374 **Result or Strategy**

375 **5.1.4.1 Limitations on Harvesting to Provide Patch Size Distribution**

376  
377 The **FSP Holder** will limit the size of cutblocks it harvests and to which this FSP applies such that the

378 Patch size distribution created by that harvesting, by landscape unit, and natural disturbance types, will

379 trend over time towards the applicable ranges specified in Table 2.

380



381  
382  
383

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

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

384  
385  
386  
387

<sup>a</sup> includes ESSFmk/wv, MHmm2, CWHws2, ESSFmc and ICHmc1/mc2

<sup>b</sup> includes SBSdk/mc2

388  
389  
391

### 5.1.5 Tree Species Diversity

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

392

### Result or Strategy

393  
394

#### 5.1.5.1 Activities Pertaining to Tree Species Diversity

395  
396  
397  
398  
399  
400  
401  
402

- 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.

403 **5.1.6 Stand Structure**

Background Information	
<b>Summary of Objective</b>	<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>
<b>Source of Objective</b>	<i>Bulkley LRMP (HLP – 2006) Objectives (Objective 1.5)</i>
<b>Date Objective in Effect</b>	<i>November 6, 2006</i>

404  
405 **TABLE 3. Percentage of cutblock NAR to be retained in wildlife tree retention areas**  
406 **by BEC subzone and landscape unit.**

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

410 **Result or Strategy**

411 **5.1.6.1 Wildlife Tree Retention**

- 412  
413 (a) Where the **FSP Holder** completes harvesting on ~~its one or more~~ cutting permits within a  
414 landscape unit ensure that, at the end of that 12 month period, beginning on April 1 of any  
415 harvest year, the total area covered by wildlife tree retention areas that relate to the combined  
416 cutblocks harvested by the **FSP Holder**, will be a minimum percentage of the total harvested  
417 area, in each landscape unit and BEC subzone combination identified in Table 3.  
418
- 419 (b) If harvesting a cutblock to which this FSP applies that is 15 hectares or greater in size, the **FSP**  
420 **Holder**:
- 421
  - 422 i. will, subject to clause (b), retain at the completion of that harvesting, a wildlife tree  
423 retention area that relates to the cutblock of not less than 50% of the amount specified in  
424 Table 3;
  - 425
  - 426 ii. may relate a wildlife tree retention area required under clause (a) to more than one  
427 cutblock if all of the cutblocks that relate to the wildlife tree retention area collectively  
428 meet the applicable requirements of clause (a); and
  - 429
  - 430 iii. will specify a wildlife tree retention area required under clause (a):
  - 431

- 432 (i) in an area that contains attributes of old forest stand structure such as  
 433 standing dead trees, standing live trees, and coarse woody debris; or  
 434  
 435 (ii) where the attributes referred to in sub-clause (i) are not available  
 436 within the cutblock, in an area that is representative of the cutblock  
 437 conditions immediately before the harvesting commenced.  
 438
- 439 (c) If harvesting a cutblock to which this FSP applies that is less than 15 hectares in size,  
 440 the **FSP Holder**:
- 441
- 442 i. will subject to clause (b), retain at the completion of that harvesting, a wildlife tree  
 443 retention area within 500 meters of the cutting permit harvested area and that relates to  
 444 the amount specified in Table 3;  
 445
- 446 ii. may relate a wildlife tree retention area required under clause (a) to more than one  
 447 cutblock if all of the cutblocks that relate to the wildlife tree retention area collectively  
 448 meet the applicable requirements of clause (a).  
 449
- 450 (d) The **FSP Holder** will ensure that the **WTRAs** applicable under this clause or the trees within  
 451 such **WTRAs** include one or more of the following attributes:
- 452 i. Diversity of wildlife tree retention strategies (e.g., range of patch sizes  
 453 combined with dispersed trees);  
 454 ii. Diversity of habitat types;  
 455 iii. Internal decay (heart rot or natural/excavated cavities present  
 456 iv. Crevices present (loose bark or cracks suitable for bats);  
 457 v. Large brooms present;  
 458 vi. Active or recent wildlife use;  
 459 vii. Tree structure suitable for wildlife use (eg large nest, hunting perch, bear  
 460 den);  
 461 viii. Large trees for the site (height and diameter) and veterans;  
 462 ix. Representative of the size, age and species of the pre-harvest stand

#### 463 5.1.6.2 Restriction on Harvesting Wildlife Tree Retention Areas

464 The **FSP Holder** will not harvest a wildlife tree retention area referred to in clause (a) unless:  
 465

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

471

472  
473  
475

## 5.2 Objectives set by Government for Wildlife

Background Information		
Summary of Objective	Source of Objective	Date Objective in Effect
<b>For mountain goat:</b> (a) GAR Order UWR # U-6-007	GAR Order UWR#U-6-007	September 3, 2019
<b>For moose:</b> (a) Provide woody browse in moose winter habitat identified in Map 2. (b) Provide visual screening, security, thermal and snow interception cover in moose winter habitat identified in Map 2.	Bulkley LRMP (HLP-2006) Objective 2.2	November 6, 2006
<b>For deer:</b> (a) Provide woody browse during winter in deer habitat identified in Map 2. (b) Provide visual screening, security, thermal and snow interception cover in deer habitat identified in Map 2. (c) Provide mature cover adjacent to steep, south facing slopes within deer habitat identified in Map 2.	Bulkley LRMP (HLP-2006) Objective 2.6	November 6, 2006
<b>For wildlife:</b> 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.	Bulkley LRMP (HLP-2006) Objective 2.1	November 6, 2006

476

## 477 Result or Strategy

### 478 5.2.1 Definitions

479

480 In Paragraph 5.2.2:

481

482 (a) **“Mapped Habitat”** means the area of wildlife habitat for a species, as shown on Map 2 of  
 483 this FSP;

484

485 (b) **“Visual Screening”** means the retention to the extent practicable of deciduous species,  
 486 non-merchantable conifers, non-commercial stems and brush species present when  
 harvesting commences, that are located with:

487

i) Within the first 30 m adjacent to a Main Haul Road measured from the outside of the  
 488 road ditch line considering site lines and road safety or

489

ii) Within 30 m of a classified wetland edge.

### 491 5.2.2 Activities Related to Wildlife Species

492

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

494

495 a.) in respect of GAR Order UWR # 6-007 – Bulkley Mountain goats

496

i.) follow the general wildlife measures outlined in Schedule 1 of the order.

497

498 b.) In respect of Mapped Habitat for moose:

499

i.) retain at the conclusion of such harvesting within such Mapped Habitat:

500

501 A.) where the volume of deciduous species is greater than 5% of the net  
 502 merchantable stand volume of the cutblock immediately prior to commencing  
 503 harvesting, wildlife tree retention areas or riparian reserve zones containing a  
 504 deciduous component; and  
 505

- 506  
507 B.) ~~Visual~~ ~~Screening~~ within a cutblock located immediately adjacent to Main Haul  
508 Roads, provided that such screening is available and need not be removed for safety  
509 reasons or to fulfill any other requirement under this FSP or at law;  
510
- 511 C.) thermal and snow interception cover by the results and strategies specified in  
512 sections 5.1.1 (CORE Ecosystems), 5.1.2 (Landscape Corridors), 5.1.3 (Seral  
513 Stage) and 5.1.4 (Landscape level biodiversity) and 5.1.6 (stand structure) of this  
514 FSP.  
515  
516  
517
- 518 ii.) where permitted to do so at law, deactivate all roads within a cutblock in such Mapped  
519 Habitat not required for future timber development by date as soon as practicable after  
520 the FSP Holder completes for that cutblock all activities required to achieve the stocking  
521 standards that apply under this FSP to the regeneration date; and  
522
- 523 iii.) not use pesticide or herbicide to treat brush in a cutblock;  
524
- 525 c.) in respect of Mapped Habitat for deer:  
526 i. retain at the conclusion of such harvesting within such Mapped Habitat:  
527  
528 A.) where the volume of deciduous species is greater than 5% of the net  
529 merchantable stand volume of the cutblock; immediately prior to  
530 commencing harvesting, wildlife tree retention areas or riparian reserve zones  
531 containing a deciduous component; and  
532  
533 B.) where harvesting occurs adjacent to steep south facing slopes, wildlife tree  
534 retention areas adjacent to or on the steep south facing slopes; and  
535
- 536 C.) ~~Visual~~ ~~Screening~~ within a cutblock located immediately adjacent to Main Haul  
537 Roads, provided that such screening is available and need not be removed for safety  
538 reasons or to fulfill any other requirement under this FSP or at law;  
539
- 540 D.) thermal and snow interception cover by the results and strategies specified in  
541 sections 5.1.1 (CORE Ecosystems), 5.1.2 (Landscape Corridors), 5.1.3 (Seral  
542 Stage) and 5.1.4 (Landscape level biodiversity) and 5.1.6 (stand structure) of this  
543 FSP.  
544  
545
- 546 ii) where permitted to do so at law, deactivate all roads within a cutblock in such Mapped  
547 Habitat not required for future timber development by date as soon as practicable after the FSP  
548 Holder completes for that cutblock all activities required to achieve the stocking standards that  
549 apply under this FSP to the regeneration date; and  
550
- 551 iii.) not use pesticide or herbicide to treat brush in a cutblock;  
552
- 553 d.) in respect of wildlife general (*Bulkley LRMP Objective 2.1*) the result and strategy are specified  
554 in section 5.2.2 (b) and (c).  
555

556 **5.3 Objectives set by Government for Fish Habitat and Water Quality**

557 **5.3.1 Objectives set by Government for Water, Fish, Wildlife and Biodiversity within**  
 558 **Riparian Areas**

558  
 560  
 561

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

562 **Result or Strategy**

563 **5.3.1.1 Definition**

564

565 In Subparagraph 5.3.1.3:

- 566 (a) **“Directly adjacent”** means the portion of any riparian feature with a riparian  
 567 management  
 568 class that due to its location is within its riparian management zone distance from a  
 569 block harvested under this FSP.
- 570 (b) **“RMZ”** means a riparian management zone”
- 571 (c) **“Stub”** means a live or dead tree that has had its top removed, leaving a high stump  
 572 greater than 3.0 m in height.
- 573 (d) **“Sensitive S6 Stream”** means the first 500 meter portion of an S6 stream measured  
 574 from  
 575 its confluence with a fish bearing stream, and  
 576 i.) has a channel width of greater than 1.0 meter, and  
 577 ii.) has the same stream order as the most downstream reach of the tributary.
- 578 (e) **“Retain”** or **“Retention”** relates to standing live or dead trees. Blowdown of retained  
 579 trees following harvest of the RMZ are considered retention.  
 580

581 **5.3.1.2 Activities in Riparian Areas**

582

583 The FSP Holder adopts as a result or strategy under this FSP, applicable to the **FDU**, sections 47, 48,  
 584 49, 50, 51, 52(2) and 53, 55, 56, 57 and 58 of the FPPR.

585

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

588

589

590 **5.3.1.3 Retention in RMZ's**

591  
 592 For the purposes of section 12(3) and 12.3 (6) of the FPPR, the FSP Holder, when felling trees in a  
 593 cutblock to which this FSP applies within an RMZ of a riparian feature, will, at the conclusion of  
 594 that activity:

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

597  
 598 **Table 4: Retention of trees within RMZ of Wetlands and Lakes and Features with a Riparian**  
 599 **Reserve Zone**

600

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.	

601

- 602 b.) For W3 wetlands, retain within a 10 meter zone not less than 25% of the area or not less  
 603 than 25% of the pre-harvest stems/ha greater than 15 cm DBH as stubs or full stems.

604

- 605 c.) For S4, S5, or sensitive S6 streams, retain within a 20 meter zone (consists of 10 meters  
 606 on either side) greater than 50% of the basal area.

607

- 608 d.) For S6 streams, that is not sensitive, retain within a 20 meter zone (consists of 10 meters  
 609 on either side) greater than 15% of the basal area.

610

- 611 e.) Retain to the extent practicable, the brush and non-merchantable conifer and non-  
 612 commercial stems present when harvesting commenced  
 613 (i) within 10 meters that begins at both sides of the edge of the stream channel bank of  
 614 each S4, S5 and sensitive S6 stream within or directly adjacent to a cutblock.  
 615 (ii) within 5meters that begins at both side of the edge of the stream channel bank of each  
 616 S6 stream that is not sensitive within or directly adjacent to a cutblock  
 617 (iii) within 5 meters for W3 wetlands, L1-A or L3 lakes within or directly adjacent to a  
 618 cutblock.

619

620

621

622  
624  
625

### 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> <p style="margin-left: 40px;">a.) <i>Conserve the natural hydrological conditions, natural stream bed dynamics and integrity of stream channels in the Fisheries Sensitive Watershed.</i></p> <p style="margin-left: 40px;">b.) <i>Conserve the quality, quantity and timing of water flows required by fish in the Fisheries Sensitive Watershed, and</i></p> <p style="margin-left: 40px;">c.) <i>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> <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="width: 20%;"><i>Watershed Common Name</i></th> <th style="width: 20%;"><i>Watershed Gazetted Name</i></th> <th style="width: 15%;"><i>Forest District</i></th> <th style="width: 15%;"><i>GIS FSW Identifier</i></th> <th style="width: 30%;"><i>Watershed Code</i></th> </tr> </thead> <tbody> <tr> <td><i>Toboggan Creek</i></td> <td><i>Toboggan Creek</i></td> <td><i>Skeena Stikine</i></td> <td><i>F-6-004</i></td> <td><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>										

### 626 Result or Strategy

#### 627 5.3.2.1 Definition

628

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

#### 633 5.3.2.2 Activities within the Fisheries Sensitive Watersheds

634

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

- 636 a.) The **FSP Holder** will not cause as of the conclusion, and by virtue of that harvesting or  
 637 construction a target specified in Table 5 to be exceeded, or



638 b.) If timber is in danger of being damaged, significantly reduced in value, lost or  
 639 destroyed and/or poses a hazard to public safety. In these circumstances the FSP holder  
 640 may develop harvest plans, subject to District Manager approval, that facilitate  
 641 harvesting of the affected timber specified in Table 5.  
 642

643 **Table 5: Fisheries Sensitive Watershed Targets**  
 644

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

645 **5.3.3 Objectives Set by Government for Water in Community Watersheds**  
 646

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

648 **Result or Strategy**

649 **5.3.3.1 Definition**

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

652 **5.3.3.2 Activities within a Community Watershed**  
 653

654 The **FSP Holder** adopts as a result and strategy under this FSP, applicable to the FDU, sections 59, 60,  
 655 61, 62, 63, 82(1), and 84 of the FPPR.

656 The **FSP Holder** will not use pesticide or herbicides to treat brush within all of the FDU.  
 657

658  
 659 If the **FSP Holder** proposes road construction or timber harvesting within the proposed Kathlyn  
 660 Creek Community Watershed, the **FSP Holder** will harvest within any thresholds/targets  
 661 established for this watershed. In the absent of any established thresholds/targets, the **FSP Holder**  
 662 will develop targets and thresholds with the Kathlyn Creek Watershed Group, before any road  
 663 construction and timber harvesting commences.

664  
 665 If timber is in danger of being damaged, significant reduced in value, lost or destroyed and/or poses  
 666 a hazard to public safety. In these circumstances the **FSP Holder** may develop harvest plans,  
 667 subject to District Manager approval, that facilitate harvesting of the affected timber within the  
 668 community watershed.

669 **5.3.3.3 Activities in watersheds with a licenced waterworks**

670 The FSP holder adopts as a result or strategy under this FSP, applicable to the FDU sections 59, 60,  
 671 82(1), and 84 of the FPPR

672  
 673 The **FSP Holder** will not use pesticides or herbicides to treat brush within all of the FDU.

674  
 675 **5.3.4 Objectives for Fish Habitat**

676

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

677 **Result or Strategy**

678 **5.3.4.1 Definition**

679

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

684

685 **5.3.4.2 Activities Related to Wilderness Lakes**

686

687 The FSP holder will:

688

- 689 a.) not construct a **Permanent Road** to which this FSP applies within 1 kilometer  
 690 of a Wilderness Lake; and
- 691
- 692 b.) subject to any restrictions in law that limit or prevent it from doing so, as soon as  
 693 practicable after it has completed use of a road that, was built after the  
 694 commencement of the **Term**, the **FSP Holder** constructed within 1 kilometer of a

695 Wilderness Lake, modify the road so that it will not provide **Motorized Access** to  
 696 that Wilderness Lake.

697 **5.4 Enhanced Timber Development Areas**

698

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

699 **Result or Strategy**

700 **5.4.1 Activities Related to Mapped Enhanced Timber Development Areas**

701

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

704

- 705 1) Other resource values reduce this priority;
- 706
- 707 2) Such harvesting will be inconsistent with the obligations of the **FSP Holder** under this FSP, FRPA,  
 708 those licences, the Forest Act or any other legislation governing such harvesting;
- 709
- 710 3) Other areas become a higher priority for harvest because of pest or disease outbreaks,  
 711 fire suppression or salvage or safety issues;
- 712
- 713 4) Prioritizing these areas for harvest impairs the ability of the FSP Holder to exercise those  
 714 timber harvesting rights in a manner consistent with section 6 of the FPPR;
- 715
- 716 5) Third party harvesting, resource development or use or other action impairs the ability of the  
 717 **FSP Holder** to harvest according to this priority;
- 718
- 719 6) The **FSP Holder** is unable to obtain authority to harvest according to this priority; or
- 720
- 721 7) The **FSP Holder** is directed by government to harvest in a manner inconsistent with this priority.

722

723 **5.5 Outdoor Recreation**

724 **5.5.1 Recreation Opportunities**  
725

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

727 **Result or Strategy**

728  
729 In section 5.5.1.1, a recreation trail and site includes the following FRPA section 56 and non-FRPA  
730 recreation trails and sites as identified on Map 1:  
731

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

749  
750  
751 In section 5.5.1.2, the recreational emphasis area is the same as the Smithers Community Forest Trails  
752 Recreation Site.  
753

754 **5.5.1.1 Activities Related to Recreation Trails and Recreation Sites**

755  
756 The **FSP Holder** will not harvest or construct a road to which this FSP applies within the Dennis Lake  
757 Recreation Site and Twin Falls Recreation Site, unless directed by the District Recreation Officer in  
758 collaboration with the **FSP Holder**.  
759

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

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

764  
 765 as soon as practicable, after conclusion of the harvesting or construction either  
 766 c.) remove the debris; or  
 767 d.) if the District Manager agrees with the **FSP Holder**, establish new access to the trail in  
 768 accordance with that agreement.

769 **5.5.1.2 Activities Related to the Recreation Emphasis Area**

770  
 771 If the harvesting a cutblock or constructing a road is within the Recreation Emphasis Area, the **FSP**  
 772 **Holder** will:  
 773 1.) Design forest harvesting and silviculture systems that proactively address windfall hazards.  
 774 2.) Not create new access points to the trail unless no practicable alternatives exist.  
 775 3.) Not plan forestry activities that will result in cross-country ski trail closures during the period  
 776 between November 15<sup>th</sup> and April 1<sup>st</sup>. If no practicable alternative exists, the FSP holder will:  
 777 a.) Plan activities in a manner that has the least impact to access  
 778 b.) Notify the Bulkley Valley Cross Country Ski Club prior to any planned forestry,  
 779 harvesting and road building activities during the period of November 15<sup>th</sup> and April 1<sup>st</sup>.  
 780 4.) Ensure trails or staging areas used for log hauling and/or skidding will be left free of debris  
 781 and rutting on completion of forestry activities.  
 782 5.) Not paint or blaze trees  
 783 6.) Remove, after planting is completed, all flagging used to mark block boundaries  
 784 7.) Post signage regarding forestry activities and safety.  
 785

786 **5.5.1.3 Activities Related to Recreational Opportunities**

787  
 788 The **FSP Holder** will form a Resource User Group to provide a forum for stakeholders to develop  
 789 recreational opportunities within the community forest area.

790 **5.5.2 Recreation Access**

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

791  
 792 **Result or Strategy**  
 793  
 794 In section 5.5.2.1, a recreation feature includes the following known recreation trails and sites as  
 795 identified on Map 1.

- 796  
 797 1) Dennis Lake Recreation Site  
 798 2) Piper Down Recreation Site  
 799 3) Ptarmigan Recreation Trail  
 800 4) Smithers Community Forest Trails Recreation Site  
 801 5) Twin Falls Recreation Site  
 802 6) Passby Creek Trail (Rec 203938)  
 803 7) Toboggan Creek Trail (Rec 203944)

- 804 8) Hudson Bay Glacier Trail (Rec 2041123)
- 805 9) Silvern Lake Trail (Rec 0651)
- 806 10) Opal Ridge Trail (Rec 241236)
- 807 11) Pine Creek Connector Snowmobile Trail (SSA)
- 808 12) Duthie West Trail
- 809 13) Rockpile (aka Heavenly Bowl) Trail
- 810 14) Backdoor Opal Trail
- 811 15) Any FRPA section 56 interpretative forest sites, recreation sites and recreation trails, which may be
- 812 designated, after the **Legislated Planning Date**.
- 813

814 **5.5.2.1 Activities Related to Recreation Access**

815  
 816 If as of the **Date of Submission**, the FSP Holder is maintaining a road or portion thereof to which this  
 817 FSP applies over which **Motorized Access** to a recreation trail or recreational site established under  
 818 **FRPA** or **the FPC** by the **Legislated Planning Date** and still in effect, then if and when the **FSP**  
 819 **Holder** deactivates the road, the **FSP Holder** will:

- 820
- 821 (a) if site conditions permit **Motorized Access** to be retained as of the conclusion of the
- 822 deactivation, retain that access at that time; or
- 823
- 824 (b) if site conditions do not permit **Motorized Access** to be retained as of the conclusion of the
- 825 deactivation, notify the District Manager before deactivating the road and, if the District
- 826 Manager and the **FSP Holder** agree, not deactivate the road.

827 **5.6 Visual Quality**

Background Information	
<b>Summary of Objective</b>	<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>
<b>Source of Objective</b>	<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>
<b>Date Objective in Effect</b>	<i>December 19, 2000</i>

828  
 830 **Result or Strategy**

831 **5.6.1 Definitions**

832  
 833 In Subparagraph 5.6.2,  
 834  
 835 **“Alteration”** means a change or something different as a result of the FSP holder conducting timber  
 836 harvesting;  
 837  
 838 **“Category of Alteration”** means the applicable visual quality objective; and  
 839

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

842 **5.6.2 Activities in Scenic Areas**

- 843  
 844 a) If the **FSP Holder** harvests timber in a cutblock to which this FSP applies and that is located in  
 845 scenic areas identified on Map 3 the cutblock will, at the conclusion of harvesting, be consistent  
 846 with the characteristics of alteration indicated in Table 6 for the applicable Category of  
 847 Alteration or any category above it in Table 6.  
 848

849 **Table 6: Characteristics of Alteration by Alteration Category**

850

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.

851  
 852  
 853  
 854  
 855  
 856

- 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).

857 **5.6.3 Activities Adjacent to Private Land:**

858  
 859  
 860  
 861  
 862  
 863  
 864  
 865  
 866

For blocks and roads within 150 meters of private land, the **FSP Holder** will before commencing harvesting and/or road construction 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.

867 **5.7 Objectives set by Government for Cultural Heritage Resources**

868

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

870

871 **Result or Strategy**

872 **5.7.1 Definition**

873

874 In Subparagraph 5.7.2

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

878

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

881

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

884

885 a.) Record the location and nature of any cultural heritage resource;

886

887 b.) Evaluate the direct impact of the planned development on the cultural heritage resource;

888

889 c.) If necessary, prepare recommendations in order to conserve, mitigate, or if necessary protect,  
890 the CHR considering the factors in FPPR Schedule 1(4), to address the objectives of FPPR

891 s.10.;

892 **5.7.2 Conserving or Protecting Cultural Heritage Resources**

893

894 The FSP Holder will:

895

896 a) Provide information on proposed harvesting and road building activities to affected  
897 ~~aboriginal-Indigenous~~ groups as per the consultation processes defined by government (for  
898 ~~example, in Forestry Consultation and Revenue Sharing Agreements~~) and document CHR  
899 ~~and other values and interests~~ brought to the attention of the FSP holder through this  
900 process; and

901

902 b) Before ~~completing harvesting and road building activities applying for a cutting permit or~~  
903 ~~road permit~~ the FSP holder will carry out a ~~eCHR~~Cultural Heritage Resource Evaluation  
within all blocks and roads; and



- 904 c) Where CHR features are found provide copies of completed CHR evaluations to affected  
 905 aboriginal groups prior to ~~applying for a cutting permit or road permit~~ implementing forest  
 906 harvesting and road building activities;  
 907 ~~e)d) Identify areas in which harvesting and road construction is proposed for the purpose of -for~~  
 908 potentially affected aboriginal/Indigenous groups to visit these areas to provide feedback to  
 909 the FSP Holder about proposed harvesting and/or road construction; and  
 910 ~~e)e) Conduct all harvesting, road construction and mechanical site preparation activities~~  
 911 consistent with recommendations given in the CHR evaluation referred to in subparagraphs  
 912 (b) and (d) that are practicable.  
 913 ~~e)f) If the FSP Holder encounters a previously unidentified CHR during harvesting, road~~  
 914 construction or mechanical site preparation activities:  
 915 i.) Modify the activity to the extent necessary to protect the **CHR** until a **CHR**  
 916 **Evaluation** is completed;  
 917 ii.) Ensure subsequent harvesting, road construction, or mechanical site preparation  
 918 activities that are carried out in the CHR area are consistent with  
 919 recommendations given in the **CHR Evaluation**, and  
 920 iii.) Communicate the results of the **CHR Evaluation** to the affected aboriginal  
 921 group(s) and to appropriate government staff within 30 days.  
 922

923 **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, The objective set by government for soils is 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>

924  
 925 **Result or Strategy**

926 **5.8.1 Conservation of Soils Values**

927  
 928 The **FSP Holder** adopts as a result or strategy applicable in the **FDU** sections 35, 36, 37, 39 and 40  
 929 of the **FPPR**.  
 930

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

Background Information		
Summary of Objective	Source of Objective	Date Objective in Effect
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.		

934

935 **5.9.1.1 Definitions**

936

937 In Paragraphs 5.9.2.1:

938

939 1) **“Glacier Gulch RMZ”** means the Glacier Gulch Resource Management Zone (Sub-unit 10-1 as specified in the Bulkley LRMP (HLP-2000),

940

941 2) **“Silvern Lakes RMZ”** means the Silvern Lakes Resource Management Zone (Sub-unit 12-1 as specified in the Bulkley LRMP (HLP-2000),

942

943 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),

944

945 4) **“Community Forest RMZ”** means the Community Forest Resource Management Zone (Sub-unit 10-4) as specified in the Bulkley LRMP (HLP-2000),

946

947 5) **“Copper River RMZ”** means the Copper River Resource Management Zone (Sub-unit 12-2) as specified in the Bulkley LRMP (HLP-2000),

948

949 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.

950

951 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.

952

953 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.

954

955

956 **5.9.2.1 Activities within Resource Management Zones**

957

958 1.) The **FSP Holder** will not construct road or harvest timber within the Silvern Lakes RMZ or Hudson Bay Mountain RMZ.

959

960

974 2.) If harvesting a cutblock or constructing a road to which this FSP applies, the **FSP Holder**  
 975 will in the RMZ's specified in Table 7, achieve the results or carry out the strategies  
 976 specified for the RMZ in that Table;  
 977

978 **TABLE 7: RESULTS AND STRATEGIES APPLICABLE TO RESOURCE MANAGEMENT ZONES**  
 979

<b>Resource Management Zone</b>	<b>Applicable Result or Strategy (Paragraph of this FSP)</b>
<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)

980  
 981  
 982 3.) In the Glacier Gulch Resource Management Zone and the Copper River Resource Management  
 983 Zone, the **FSP Holder:**  
 984 i) will not harvest or construct a road within a **red-listed plant community**, unless there  
 985 is no alternative for access or stream crossings, or if harvesting is required to address  
 986 safety concerns.  
 987 ii) Will not harvest will not authorize harvesting that will result in greater than 30% of  
 988 each occurrence of a **blue-listed plant community** being harvested.  
 989 iii) The identification, size and location of red and blue-listed plant communities will be  
 990 verified by a qualified professional.  
 991  
 992  
 993  
 994

995 **6.0 MEASURES**

996 **6.1 Measures for Preventing the Introduction or Spread of Invasive Plants**

998 **6.1.1 Definitions**

999  
1000 “**Disturbed Area**” means contiguous areas of exposed mineral soil greater than 0.1 ha that are  
1001 associated with access structures or harvesting activities excluding the running surface of  
1002 **permanent roads** or pullouts.

1003  
1004 “**growing season**” means the time period between the last freeze in the spring and first frost in  
1005 the fall.

1006  
1007 “**Invasive Plants**” means those plants listed in the Invasive Plant Regulation.

1008  
1009 “**revegetated**” means the establishment of non-invasive plants over more than 50% of the  
1010 disturbed area (including the natural in-fill of domestic plants) that could be reasonably expected  
1011 to support vegetation.

1012  
1013 “**Seed**” means seed that meets or exceeds Canada Common No. 1 forage mixture as defined by  
1014 the Canada Seeds Act and Regulations and verified noxious weed free and invasive weed free  
1015 with a certificate of seed analysis.  
1016

1017 **6.1.2 Measures**

1018  
1019 In relation to section 17 of the FPPR, the **FSP Holder** will:

1020  
1021 (i) Seed disturbed areas no later than the end of the growing season following completion of  
1022 harvesting or road construction activities.

1023  
1024 (ii) If treated disturbed areas are not revegetated within two growing seasons, the area will be  
1025 re-seeded.

1026  
1027 (iii) The following best management practices will be followed as per the 2024 pocket guide for  
1028 British Columbia Forest workers: Preventing the Spread of Invasive Species During Forest  
1029 Management Activities.

1030  
1031 Best management practices include:

1032 1) Incorporate known invasive plant sites into development plans and report new sites as they are  
1033 discovered.

1034 2) Avoid infested sites for staging, parking, and log sorting, both in the bush and storage yards.

1035 3) Work in uninfested sites before moving to infested sites.

1036 4) Clean equipment before moving to a new work site or region.

1037 5) Inspect and ensure fill and erosion-control materials are free of invasive plants before transport  
1038 and use.

1039 6) Minimize soil disturbance and maintain native vegetation.

1040 7) Revegetate disturbed sites as soon as possible.

1041 8) Promptly control infestations resulting from forestry activities.

1042  
1043  
1044

1045 **6.2 Measures to Mitigate the Loss of Natural Range Barriers**

1046 **6.2.1 Definitions**

1047 “Range Tenure” means an agreement under the *Range Act* that provides grazing rights.

1048 “known natural range barrier” means a naturally occurring feature or a combination of  
 1049 naturally occurring features, including the following, that stops or significantly impedes  
 1050 livestock movement to and from an area adjacent to the feature or combination of features:

- 1051 a. a lake, pond, river, creek or wetland;
- 1052 b. a rock face;
- 1053 c. a talus slope;
- 1054 d. an embankment;
- 1055 e. vegetation;
- 1056 a.f. standing or non-standing timber, a range barrier that has been communicated to  
 1057 the FSP holder by a range tenure holder and/or the Ministry of Forests and  
 1058 Range.

1059 The list of naturally occurring features within the definition is not limiting or meant to exclude other  
 1060 naturally occurring features. Therefore, a natural range barrier may include other types of naturally  
 1061 occurring features, if the feature(s) stop or significantly impedes the movement of livestock.

1062 **6.2.2 Measures**

1063 In relation to section 18 of the FPPR, the **FSP Holder** will:

- 1064 (a) Annually, and at least 30 days before harvesting a cutblock or constructing a road to
- 1065 which this FSP applies and that is located within an area subject to a **Range Tenure**,
- 1066 inform the holder of that **Range Tenure** of the harvesting or construction; and
- 1067
- 1068 (b) where the **Range Tenure** holder or other qualified person indicates the harvesting or
- 1069 construction referred to in clause (a) will remove or render ineffective a known natural
- 1070 range barrier that a holder of a Range Tenure relies upon for the purposes of that
- 1071 Range Tenure:
- 1072 (i) come to an agreement with that holder on mitigation measures,
- 1073 and
- 1074 (ii) implement mitigation measures in accordance with the agreement referred to in
- 1075 subclause (i).
- 1076
- 1077
- 1078
- 1079
- 1080
- 1081

1082 **7.0 STOCKING REQUIREMENTS**

1083 **7.1 Definitions**

1084 In Part 7.0:

- 1085 a) “NSR” means not containing a regenerated stand meeting the stocking standards in
- 1086 Divisions 7.3 and 7.4 and Appendices A and B of this FSP;
- 1087
- 1088 b) “M Value for Stocking and Free Growing Surveys” means the maximum number of
- 1089 healthy, well-spaced trees that may be tallied in a single plot as calculated by dividing the
- 1090 target stocking standard for the standards unit by the plot multiplier, which, if not a whole
- 1091 number, is rounded to the nearest higher whole number; and
- 1092
- 1093

- 1094  
1095 c) “**Countable Conifer**” means a conifer tree with a height that is:  
1096  
1097 (i) 30 % of the median height of the preferred and acceptable well-spaced trees in  
1098 the same survey plot, if that median height is less than 2 meters; or  
1099  
1100 (ii) 50 % of the median height of the preferred and acceptable well-spaced trees  
1101 in the same survey plot, if that median height is 2 meters or greater.  
1102

## 1103 7.2 Election

1104  
1105 For the purposes of section 16(1) of the FPPR, section 44(1) of that regulation will apply to each area  
1106 to which this FSP applies where the **FSP Holder** is required to establish a free growing stand.  
1107  
1108

## 1109 7.3 General Standards

1110  
1111 For the purposes of section 16(3) of the FPPR, for each area to which this FSP applies where the  
1112 Agreement Holder is required to establish a free growing stand:

- 1113  
1114 a) the applicable regeneration date and applicable stocking standards referred to in section  
1115 44(1)(a) of the FPPR, and  
1116  
1117 b) the applicable free growing date and applicable stocking standards referred to in section  
1118 44(1)(b) of the FPPR, and  
1119  
1120 c) for the purposes of regeneration surveys and free to grow surveys the M Value for Stocking and  
1121 Free Growing Surveys and Countable Conifer as defined in Division 7.1 will apply,  
1122

1123 are, subject to the special circumstances in Division 7.4, as set out in Appendix A opposite the BEC site  
1124 series that occupies the largest portion of the standards unit.  
1125

## 1126 7.4 Special Circumstances

1127  
1128 The special circumstances referred to in Division 7.3 are:

- 1129  
1130 a.) where harvesting within Core Ecosystems results in openings > 1 ha, the  
1131 Reforestation Target Stocking Standard (TSS) will be equal to the Minimum  
1132 Stocking Standards (MSS), as defined by Appendix A for the corresponding BEC  
1133 site series of the site, except if fire management stocking standards (WUI-HRV)  
1134 are used.  
1135 b.) where a standards unit does not meet the tree height over deleterious competition  
1136 at free growing specified in Appendix A:  
1137  
1138 i.) deleterious competition at the time of free growing will be  
1139 assessed using Appendix 13 of the Silviculture Procedure  
1140 Manual, May 1, 2018; and  
1141 ii.) the individual tree free growing assessment method (quadrant  
1142 method) in *Appendix 13* will apply to all BEC subzones in the  
1143 Bulkley Timber Supply Area; and  
1144 iii.) the definition of upland cottonwood in *Appendix 13* will be taken  
1145 to mean any cottonwood not growing on a floodplain or fluvial  
1146 deposit;  
1147

- 1148  
1149
- c.) aspen, cottonwood and birch are not considered deleterious competition:
- 1150 i.) within the riparian management area of a stream, wetland or lake; or
- 1151 ii.) where there is an incidence of greater than 20% of spruce crop trees by
- 1152 number affected by *Pissodes strobi* (White Pine Weevil);
- 1153
- 1154 d.) Whitebark pine is a federally blue-listed under the *Species At Risk Act*. Best
- 1155 management practices have been identified in the *Retain Whitebark pine*
- 1156 guidelines. The following practices will be used to ensure the continued
- 1157 i. *Harvesting inside Whitebark pine 2 km Regeneration and Recovery*
- 1158 *Zone buffers will be avoided whenever possible.*
- 1159 ii. *If harvesting occurs inside these Zones, individual or groups of*
- 1160 *healthy whitebark pine trees will identified and will be retained in*
- 1161 *wildlife tree patches.*
- 1162 iii. *Whitebark pine may be prone to wind damage (blow down), as*
- 1163 *such:*
- 1164 *a. A minimum of eight trees will be retained to protect*
- 1165 *whitebark pine trees, within one tree length of an*
- 1166 *individual whitebark pine,*
- 1167 *b. Patches will be oriented to the predominant wind*
- 1168 *direction,*
- 1169 *c. Trees will be retained with long vertical crown length,*
- 1170 *d. Trees of average height will be retained,*
- 1171 iv. *After harvesting is completed, logging slash will be removed from*
- 1172 *the base of residual Whitebark pine trees.*
- 1173 v. *Where Whitebark pine trees were identified in a harvested area*
- 1174 *within the Regeneration and Recovery Zones, Whitebark pine trees*
- 1175 *will be planted according to the attached stocking standards.*
- 1176 vi. *Planting sites will be chosen that have little competing vegetation.*
- 1177 vii. *Harvest machine operators or hand fallers will be trained to avoid*
- 1178 *harvesting healthy whitebark pine trees.*
- 1179 i. \_\_\_\_\_
- 1180 d.)e.) \_\_\_\_\_ brush species within 10 meters of a **Classified Riparian Feature** are
- 1181 not considered deleterious competition;
- 1182
- 1183 e.)f.) \_\_\_\_\_ for a standards unit comprised of more than one BEC site series:
- 1184
- 1185 i.) the preferred and acceptable species for the standards unit includes
- 1186 all of the preferred and acceptable species for all of the BEC site
- 1187 series comprising the standards unit;
- 1188
- 1189 ii.) the preferred and acceptable species will be planted only where
- 1190 they are ecologically suited within the standards unit; and
- 1191 iii.) the target stocking standards (stems per hectare), minimum preferred
- 1192 and acceptable (stems per hectare), minimum preferred (stems per
- 1193 hectare), minimum inter-tree distance (m) and minimum height at free
- 1194 growing (m) will be those of the dominant site series;
- 1195
- 1196 f.)g.) \_\_\_\_\_ the maximum density of countable coniferous stems is 10,000 per hectare for
- 1197 all BEC site series, except for the fire management stocking standards, where the
- 1198 maximum density of countable coniferous stems will be 5,000 per hectare for the
- 1199 SBSdk and SBSmc2 BEC subzones.
- 1200
- 1201 g.)h.) \_\_\_\_\_ The minimum inter-tree distance:
- 1202 i.) May be reduced from 2.0 m to 1.6 m where Mechanical Site Preparation
- 1203 has been applied; or



- 1204                    ii.) Will be reduced to 1.6 m for hygric and sub-hygric Standard Units (SUs)  
 1205                    identified by Appendix A, the minimum Inter-Tree Distance (MITD) is:  
 1206                    A. One Metre for a pair of well-spaced trees, if the next well-spaced tree  
 1207                    is  
 1208                    B. 1.6 meters from either well-spaced trees in the pair.  
 1209  
 1210                    ~~h.)~~i.) exotic species planted in research trials, not exceeding the lesser of 2 hectares  
 1211                    or 10% of the NAR of a cutblock, will be considered preferred trees;  
 1212  
 1213                    ~~i.)~~j.) for crop trees to be acceptable at the Regeneration Date and the Free  
 1214                    growing Date they must meet the:  
 1215                    i.) Appendix 10 of the Silviculture Procedure Manual May 1, 2018.  
 1216                    ii.) Prince Rupert Forest Region, Regional Operating Standards # 1,  
 1217                    Acceptability Criteria for Balsam Advanced Regeneration, July 22,  
 1218                    1997; and  
 1219                    iii.) Appendix 10b of the Silviculture Procedure Manual May 1, 2018  
 1220  
 1221                    ~~j.)~~k.) Partial cutting Silviculture Stocking Standards, Appendix B, may be applied to  
 1222                    standard units, where partial cutting silviculture systems have been implemented,  
 1223                    and where the retained stems greater than 12.5 centimeters at breast height have a  
 1224                    combined basal area greater than 5 meter<sup>2</sup>/hectare.  
 1225  
 1226                    ~~k.)~~l.) Division 7.3 does not apply to an area:  
 1227                    i.) Where the timber harvested was in danger of being significantly reduced in  
 1228                    value, lost or destroyed; and  
 1229                    ii.) The harvested area, when taken together with an adjoining harvested area, will  
 1230                    not result in an opening with a contiguous NSR greater than or equal to 1  
 1231                    hectare.

## 1232 7.5 Intermediate Cutting or Special Forest Products

1233  
 1234 If the FSP Holder proposes to carry out timber harvesting on an area that is subject to:


- 1235  
 1236 a) commercial thinning,  
 1237 b) removal of individual trees,  
 1238 c) a similar type of intermediate cutting,  
 1239 d) harvesting of special forest products,  
 1240

1241 and as such, section 16(4) and 44(4) of the FPPR have application to this FSP. The FSP holder will for  
 1242 each standards unit in which it carries out timber harvesting referred to in (a) to (d), for a period of 12  
 1243 months after completion of harvest:

- 1244  
 1245 (i) remove less than 50% of the basal area that existed on the standards unit at  
 1246 commencement of harvest;  
 1247  
 1248 (ii) retain at the conclusion of harvesting trees of form, health and vigor representative of  
 1249 the original stand condition; and  
 1250  
 1251 (iii) create an opening not greater than 0.1 hectares.

1253 **8.0 SIGNATURE(S)**

1254  
1255 **Signature of Person Required to Prepare the Plan Extension**  
1256 **General Manager for Wetzin'kwa Community Forest Corporation and Holder of**  
1257 **this FSP**

1258  
1259  
  
1260  
1261 May 5, 2020  
1262  
1263 \_\_\_\_\_  
1264 Authorized Signatory, ~~Jay Baker~~Sam Coggins, RPF Date

1265  
1266 **Signature of Person Preparing the Plan Extension**  
1267 *I certify that this document is prepared to the standard expected of a member of the*  
1268 *Association of British Columbia Forest Professionals*

1269  
1270  
1271  
1272 May 5, 2020  
1273 \_\_\_\_\_  
1274 David A Louw~~er~~seSam Coggins, RPF 35624756 Date

### Appendix A: Even-aged Stocking Standards

Bio-geo-climatic											
Classification		Species			Stocking(i)		Regen Delay (Max yrs)	Assessme nt	Min. Height(ii)		
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa		MIN p	Latest (yrs)	Species	Ht (m)
ESSFmc	01	1064481	BI Sx	PI <sup>34</sup> Pa	1200	700	600	7	20	PI Others	1.60 0.80
ESSFmc	02	1064482	PI	BI Sx Pa	1000	500	400	7	20	PI Others	1.20 0.80
ESSFmc	03	1064483	PI	BI Sx Pa	1000	500	400	7	20	PI Others	1.20 0.60
ESSFmc	04	1064484	PI BI Sx	Pa	1200	700	600	7	20	PI Others	1.60 0.80
ESSFmc	05	1064485	BI Sx	PI <sup>34</sup> Pa	1200	700	600	4	20	PI Others	1.60 0.80
ESSFmc	06	1064486	BI Sx	PI <sup>34</sup> Pa	1200	700	600	4	20	PI Others	1.60 0.80
ESSFmc	07	1064487	BI Sx <sup>32</sup>		1200	700	600	4	20	All	0.80
ESSFmc	08	1064488	BI Sx <sup>32</sup>		1000	500	400	4	20	All	0.60
ESSFmc	09	1064489	BI <sup>1</sup> Sx <sup>1,32</sup>		1000	500	400	4	20	All	0.60
ESSFmc	10	1064490	BI <sup>1</sup> Sx <sup>1,32</sup>		1000	500	400	4	20	All	0.60
ESSFwv	01	1064491	BI Se	Hm Hw PI <sup>34</sup> Pa	1200	700	600	7	20	PI Others	1.60 0.80
ESSFwv	02	1064492	PI	BI Hm Se Pa	1000	500	400	7	20	PI Others	1.20 0.80
ESSFwv	03	1064493	PI	BI Hm Se Hw Pa	1200	700	600	7	20	PI	1.60

Bio-geo-climatic									Assessment	Min. Height(ii)
Classification		Species			Stocking(i)		Regen Delay (Max yrs)	Latest (yrs)	Species	Ht (m)
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa				
									Others	0.80
ESSFwv	04	1064494	PI BI	Se Hm Pa	1200	700	600	7	PI	1.60
									Others	0.80
ESSFwv	05	1064495	BI Se	Hm Hw PI <sup>34</sup> Pa	1200	700	600	4	PI	1.60
									Others	0.80
ESSFwv	06	1064496	BI Se <sup>32</sup>	Hm Hw Pa	1200	700	600	4	All	0.80
ESSFwv	07	1064497	BI Se <sup>32</sup>	Hm Hw	1000	500	400	4	All	0.60
ESSFwv	08	1064498	BI <sup>1</sup> Se <sup>1,32</sup>		1000	500	400	4	All	0.60
ESSFwv	09	1064499	BI <sup>1</sup> Se <sup>1,32</sup>		1000	500	400	4	All	0.60
ICHmc1	01	1064500	BI <sup>29</sup> Hw <sup>32</sup> Sx <sup>56</sup> Ba <sup>50</sup>	PI Pa	1200	700	600	4	PI	2.00
									Others	1.00
ICHmc1	02	1064501	PI	BI Hw <sup>32</sup> Pa	1000	500	400	7	PI	1.40
									Others	0.80
ICHmc1	03	1064502	BI <sup>29</sup> Ba <sup>50</sup> Hw <sup>32</sup> Sx <sup>35,56</sup>	PI Pa	1200	700	600	4	PI	2.00
									Others	1.00
ICHmc1	04	1064503	BI <sup>29</sup> Ba <sup>50</sup> Sx <sup>35,56</sup> Hw <sup>32</sup>	PI Pa	1200	700	600	4	PI	2.00
									Others	1.00
ICHmc1	05	1064504	Ba <sup>50</sup> Sx <sup>1,35,56</sup> BI <sup>1,29</sup>	Pa	1200	700	600	4	All	1.00
ICHmc1	06	1064505	Ba <sup>50</sup> Sx <sup>1,56</sup> BI <sup>1,29</sup>	Hw <sup>1,32</sup> Pa	1000	500	400	4	All	0.80
SBSdk	01	1064506	PI Sx	Fd <sup>9,18</sup> Pa	1200	700	600	7	PI	2.00
									Fd	1.40
									Others	1.00
SBSdk Climate Change 2013	01	1064507	PI Sx Fd <sup>9,18,32</sup> Lw <sup>32</sup>	-	1200	700	600	7	PI	2.00

Bio-geo-climatic									Assessment		
Classification		Species			Stocking(i)			Regen	Latest (yrs)	Min. Height(ii)	
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa	MIN p	Delay (Max yrs)		Species	Ht (m)
										Fd Others	1.40 1.00
SBSdk	02	1064508	PI	Sx <sup>28</sup> Pa	1000	500	400	7	20	PI Others	1.40 0.80
SBSdk	03	1064509	PI	Sx <sup>28</sup> Sb <sup>28</sup> Pa	1200	700	600	7	20	PI Others	2.00 1.00
SBSdk Climate Change 2013	03	1064510	PI	Sb <sup>28</sup> Sx <sup>28</sup> Fd <sup>9,32</sup> Lw <sup>9,32</sup>	1200	700	600	7	20	PI Others	2.00 1.00
SBSdk	04	1064511	Fd PI Sx <sup>28</sup>	Pa	1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk Climate Change 2013	04	1064512	Fd <sup>9,18,32</sup> PI Sx <sup>28</sup> Lw <sup>32</sup>		1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk	05	1064513	PI Sx <sup>28</sup>	Fd <sup>9,18</sup> Pa	1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk Climate Change 2013	05	1064514	PI Sx <sup>28</sup> Fd <sup>9,18,32</sup> Lw <sup>32</sup>		1200	700	600	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk	06	1064515	PI Sx	Fd <sup>9,18</sup> Pa	1200	700	600	4	20	PI Fd Others	2.00 1.40 1.00
SBSdk Climate Change 2013	06	1064516	PI Sx Fd <sup>9,18,32</sup> Lw <sup>32</sup>	-	1200	700	600	4	20	PI	2.00

Bio-geo-climatic									Assessment	Min. Height(ii)	
Classification		Species			Stocking(i)	Regen		Latest (yrs)	Species	Ht (m)	
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa	MIN p	Delay (Max yrs)			
				-					Fd	1.40	
				-					Others	1.00	
SBSdk	07	1064517	Sx <sup>1,32</sup>	PI <sup>1</sup>	1000	500	400	4	20	PI	1.40
									Others	1.00	
SBSdk Climate Change 2013	07a	1064518	Sx <sup>1,32</sup> Fd <sup>9,18,32</sup> Lw <sup>32</sup>	PI <sup>1</sup>	1000	500	400	4	20	PI	1.40
									Fd	1.40	
									Others	1.00	
SBSdk	08	1064519	Sx <sup>1,32</sup>		1200	700	600	4	20	All	1.00
SBSdk	09	1064520	PI <sup>1</sup> Sb <sup>1</sup>	Sx <sup>1</sup>	400	200	200	4	20	PI	1.40
									Others	0.80	
SBSdk	10	1064521	PI <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>		400	200	200	4	20	PI	1.40
									Others	0.80	
SBSmc2	01	1064522	PI Sx BI <sup>29</sup>	Pa	1200	700	600	7	20	PI	1.60
									Others	0.80	
SBSmc2	02	1064523	PI	BI Sx <sup>32</sup> Pa	1000	500	400	7	20	PI	1.20
									Others	0.80	
SBSmc2	03	1064524	PI Sx <sup>32</sup>	BI <sup>29</sup> Sb Pa	1200	700	600	7	20	PI	1.60
									Others	0.80	
SBSmc2	05	1064525	PI Sx BI <sup>29</sup>	Pa	1200	700	600	4	20	PI	1.60
									Others	0.80	
SBSmc2	06	1064526	PI Sx BI <sup>29</sup>	Pa	1200	700	600	4	20	PI	1.60
									Others	0.80	
SBSmc2	07	1064527	PI Sb Sx <sup>32</sup>	BI	1000	500	400	4	20	PI	1.20

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

Bio-geo-climatic											
Classification		Species			Stocking(i)		Regen Delay (Max yrs)	Assessme nt	Min. Height(ii)		
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa		MIN p	Latest (yrs)	Species	Ht (m)
									Others	1.00	
SBSdk climate change 2013	04-WUI-HRV	1064549	Fd <sup>9,18,32</sup> PI Sx <sup>28</sup> Lw <sup>32</sup>	At, Ep	1000	500	500	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk	05-WUI-HRV	1064550	PI Sx <sup>28</sup>	Fd <sup>9,18</sup> At, Ep	1000	500	500	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk climate change 2013	05-WUI-HRV	1064551	PI Sx <sup>28</sup> Fd <sup>9,18,32</sup> Lw <sup>32</sup>	At, Ep	1000	500	500	7	20	PI Fd Others	2.00 1.40 1.00
SBSdk	06-WUI-HRV	1064552	PI Sx	Fd <sup>9,18</sup> Act, At, Ep	1000	500	500	4	20	PI Others	2.00 1.00
SBSdk climate change 2013	06-WUI-HRV	1064553	PI Sx Fd <sup>9,18,32</sup> Lw <sup>32</sup>	Act, At, Ep	1000	500	500	4	20	PI Others	2.00 1.00
SBSdk	07-WUI-HRV	1064554	Sx <sup>1,32</sup>	PI <sup>1</sup> Act, At, Ep	1000	500	500	4	20	PI Others	1.40 1.00
SBSdk climate change 2013	07-WUI-HRV	1064555	Sx <sup>1,32</sup> Fd <sup>9,18,32</sup> Lw <sup>32</sup>	PI <sup>1</sup> , Ac,t At, Ep	1000	500	500	4	20	PI Others	1.40 1.00
SBSdk	08-WUI-HRV	1064556	Sx <sup>1,32</sup>	Act, At, Ep	1000	500	500	4	20	All	1.00
SBSdk	09-WUI-HRV	1064557	PI <sup>1</sup> Sb <sup>1</sup>	Sx <sup>1</sup>	400	200	200	4	20	PI Others	1.40 0.80
SBSdk	10-WUI-HRV	1064558	PI <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>		400	200	200	4	20	PI Others	1.40 0.80
SBSmc2	01-WUI-HRV	1064532	PI Sx BI <sup>29</sup>	At	1000	500	500	7	20	PI	1.60



Bio-geo-climatic											
Classification		Species				Stocking(i)		Regen Delay (Max yrs)	Assessme nt	Min. Height(ii)	
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	Target (well-spaced/ha)	MIN pa	MIN p		Latest (yrs)	Species	Ht (m)
									Others	0.80	
SBSmc2	02-WUI-HRV	1064533	PI	BI Sx <sup>32</sup> At	1000	500	400	7	PI Others	1.20 0.60	
SBSmc2	03-WUI-HRV	1064534	PI Sx <sup>32</sup>	BI <sup>29</sup> Sb At	1000	500	500	7	PI Others	1.60 0.80	
SBSmc2	05-WUI-HRV	1064535	PI Sx BI <sup>29</sup>	Act, At	1000	500	500	4	PI Others	1.60 0.80	
SBSmc2	06-WUI-HRV	1064536	PI Sx BI <sup>29</sup>	Act, At	1000	500	500	4	PI Others	1.60 0.80	
SBSmc2	07-WUI-HRV	1064537	PI Sb Sx <sup>32</sup>	BI At	1000	500	400	4	PI Others	1.20 0.60	
SBSmc2	08-WUI-HRV	1064538	PI Sx BI <sup>29</sup>	Act, At	1000	500	500	4	PI Others	1.60 0.80	
SBSmc2	09-WUI-HRV	1064539	Sx BI <sup>29</sup>	PI Act, At	1000	500	500	4	PI Others	1.60 0.80	
SBSmc2	10-WUI-HRV	1064541	Sx <sup>1,32</sup> BI <sup>1,29</sup>	PI Act, At	1000	500	400	4	PI Others	1.20 0.60	
SBSmc2	12-WUI-HRV	1064542	Sb <sup>1</sup> Sx <sup>1,32</sup>	PI <sup>1</sup> BI <sup>1</sup>	400	200	200	4	PI Others	1.20 0.60	

1282 **Conifer Tree Species**

- 1283 “Ba” means amabilis fir;  
1284 “Bl” means subalpine fir;  
1285 “Fd” means douglas fir;  
1286 “Hm” means mountain hemlock;  
1287 “Hw” means western hemlock;  
1288 “Lw” means western larch;  
1289 “Pa” means Whitebark pine  
1290 “Pl” means lodgepole pine;  
1291 “Sb” means black spruce;  
1292 “Se” means Engelmann spruce;  
1293 “Ss” means Sitka Spruce;  
1294 “Sw” means white spruce;  
1295 “Sx” means hybrid spruce or interior spruce;

1296

1297 **Broadleaf Tree Species**

- 1298 “Act” means black cottonwood;  
1299 “At” means trembling aspen  
1300 “Ep” means common paper birch

1301

1302 **Footnotes:**

- 1303 1 suitable on elevated microsites  
1304 9 suitable on warm aspects  
1305 18 suitable in the eastern portion of biogeoclimatic unit  
1306 28 limited by moisture deficit  
1307 29 risk of heavy browsing by moose  
1308 32 limited by growing-season frosts  
1309 34 risk of snow damage  
1310 35 use resistant stock to mitigate risk of spruce weevil damage =see Ss Weevil decision tool  
1311 50 restricted to sites where the species occurs as a major species in a pre-harvest, natural stand

1312 **Appendix B Partial Cutting Stocking Standards**

1313 The following standards apply to assessing regeneration and free growing success for standards  
 1314 units, where partial cutting silviculture systems have been implemented

1315  
 1316 **1.0 When do partial cutting stocking standards apply?**

1317  
 1318 **1.1 Standard Units with less than or equal to 5 m<sup>2</sup>/ha of retained basal area:**

1319 a.) Even-aged stocking standards, as per Appendix A, apply to standards where  
 1320 the retained basal area of overstorey (Layer 1) trees is less than or equal 5  
 1321 m<sup>2</sup>/ha.

1322  
 1323 **1.2 Standard Units with greater than 20 m<sup>2</sup>/ha of retained basal area:**

1324 a.) Where the basal area of acceptable retained overstorey (Layer 1) is greater  
 1325 than 20m<sup>2</sup>/ha, the standards unit will be considered adequately stocked.  
 1326 b.) The free-growing assessment of this standards unit may not be made until  
 1327 two years after the harvest completion date.

1328  
 1329 **1.3 Standard Units with greater than 5m<sup>2</sup>/ha and less than 20m<sup>2</sup>/ha of retained basal area**

1330  
 1331 a.) Where the basal area of acceptable retained overstorey (Layer 1) trees is  
 1332 greater than 5 m<sup>2</sup>/ha and less than 20 m<sup>2</sup>/ha use the Deviation from Potential  
 1333 Productivity Standards (DFP) outlined below

1334  
 1335 **2.0 Definitions**

1336  
 1337 **2.1 Overstorey** (layer 1) is all live trees with a diameter at breast height (DBH)  
 1338 greater than or equal to 12.5 cm.

1339  
 1340 **2.2 Understorey** is all live trees with a diameter at breast height (dbh) less than  
 1341 12.5 cm. The understorey includes poles (layer 2), saplings (layer 3) and  
 1342 seedlings (layer 4).

1343  
 1344 **2.3** The deviation from potential productivity value is obtained from the attached  
 1345 **DFP (Table B).**

1346  
 1347  
 1348 **3.0 Tree Acceptability Criteria:**

1349  
 1350 **3.1 The following rules apply to measuring overstorey trees:**

1351 a.) All live acceptable overstorey trees count in the overstorey basal area  
 1352 prism sweep  
 1353 b.) No minimum inter-tree distance is applied to overstorey trees

1354 **3.2 The following rules apply to tallying understorey trees:**

1355 a.) The even-aged minimum inter-tree distance (MITD) standard, for the  
 1356 standards unit, form Appendix A, will apply.

1357 **b.) Minimum Height:**

1358 a. The minimum height at regeneration date must be greater  
 1359 than 10 cm.  
 1360 b. The minimum height at free growing must be greater than or  
 1361 equal 65% of the minimum free growing height in the even-  
 1362 aged stocking standard for the species for the standard unit.

1363 **c.) Understorey Minimum Stocking Standard (MSSp) requirement:**  
 1364 Preferred species ae those listed as preferred in the even-aged  
 1365 stocking standards, Appendix A, for the species for the standard unit.  
 1366 Preferred species must be greater than or equal to 50% of the well-  
 1367 spaced, or free-growing, stems tallied in the stratum to meet  
 1368 minimum stocking standards.

1369 **d.) M Value:**

1370 The maximum of number of healthy, well-spaced that may be tallied  
 1371 in a plot is always 8.

1372  
 1373 **4.0 Sample Size Rules and Declaration of Stocking:**

- 1374 a.) Stratum size <5 hectares: Declaration of stocking or free growing requires  
 1375 establishing a minimum of 5 plots that have a mean DFP equal to or greater than  
 1376 0.20.  
 1377 b.) Stratum size 5-20 hectares: Declaration of stocking or free growing requires  
 1378 establishing a minimum 1 plot per ha (or achieving a standard error mean DFP  
 1379  $\leq 0.05$ ) and a mean DFP less than or equal to 0.20.  
 1380 c.) Stratum size greater than 20 hectares: Declaration of stocking or free growing  
 1381 requires establishing a minimum 1 plot per 2 ha (or achieving a standard error of  
 1382 mean DFP  $\leq 0.05$ ) and a mean DFP less than or equal to 0.20.  
 1383

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

OS Basal Area	Well-spaced trees in plot								
	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

1386  
 1387  
 1388

Bio-geo-climatic Zone			Species														Regen Delay	Assessment	Min. Height(ii)	
Classification	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)	Latest (yrs)	Species	Ht (m)
ESSFmc	01	1064559	BI Sx	PI <sup>34</sup> , Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80
ESSFmc	02	1064560	PI	BI Sx Pa	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	1.20 0.80
ESSFmc	03	1064561	PI	BI Sx Pa	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	1.20 0.80
ESSFmc	04	1064562	PI BI Sx		600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80
ESSFmc	05	1064563	BI Sx	PI <sup>34</sup> Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	1.60 0.80
ESSFmc	06	1064564	BI Sx	PI <sup>34</sup> Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	1.60 0.80
ESSFmc	07	1064565	BI Sx <sup>32</sup>		600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	All	0.80
ESSFmc	08	1064566	BI Sx <sup>32</sup>		400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ESSFmc	09	1064567	BI <sup>1</sup> Sx <sup>1,32</sup>		400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ESSFmc	10	1064568	BI <sup>1</sup> Sx <sup>1,32</sup>		400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ESSFwv	01	1064569	BI Se	Hm Hw PI <sup>34</sup> Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80
ESSFwv	02	1064570	PI	BI Hm Se Pa	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI Others	1.20 0.80
ESSFwv	03	1064571	PI	BI Hm Se Hw Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80
ESSFwv	04	1064572	PI BI	Se Hm Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI Others	1.60 0.80
ESSFwv	05	1064573	BI Se	Hm Hw PI <sup>34</sup> Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	1.60 0.80
ESSFwv	06	1064575	BI Se <sup>32</sup>	Hm Hw Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	All	0.80
ESSFwv	07	1064576	BI Se <sup>32</sup>	Hm Hw	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ESSFwv	08	1064577	BI <sup>1</sup> Se <sup>1,32</sup>		400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ESSFwv	09	1064578	BI <sup>1</sup> Se <sup>1,32</sup>		400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.60
ICHmc1	01	1064579	BI <sup>29</sup> Hw <sup>32</sup> Sx <sup>56</sup> Ba <sup>50</sup>	PI Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI Others	2.00 1.00
ICHmc1	02	1064580	PI	BI Hw <sup>32</sup> Pa	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI	1.40

Bio-geo-climatic Zone			Species														Regen Delay	Assessment	Min. Height(ii)	
																			Others	0.80
ICHmc1	03	1064581	Bj <sup>29</sup> Ba <sup>50</sup> Hw <sup>32</sup> Sx <sup>35,56</sup>	PI Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI	2.00
																		Others	1.00	
ICHmc1	04	1064582	Bj <sup>29</sup> Ba <sup>50</sup> Sx <sup>35,56</sup> Hw <sup>32</sup>	PI Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI	2.00
																		Others	1.00	
ICHmc1	05	1064583	Ba <sup>50</sup> Sx <sup>1,35,56</sup> Bj <sup>1,29</sup>	Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	All	1.00
ICHmc1	06	1064585	Ba <sup>50</sup> Sx <sup>1,56</sup> Bj <sup>1,29</sup>	Hw <sup>1,32</sup> Pa	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	All	0.80
SBSdk	01	1064586	PI Sx	Fd <sup>9,18</sup> Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
<b>SBSdk climate change 2013</b>	<b>01</b>	<b>1064587</b>	<b>PI Sx Fd<sup>9,18,32</sup> Lw<sup>32</sup></b>		600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
SBSdk	02	1064588	PI	Sx <sup>28</sup> Pa	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI	1.40
																		Others	0.80	
SBSdk	03	1065589	PI	Sx <sup>28</sup> Sb <sup>28</sup> Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI	2.00
																		Others	1.00	
<b>SBSdk climate change 2013</b>	<b>03</b>	<b>1064590</b>	<b>PI</b>	<b>Sx<sup>28</sup> Sb<sup>28</sup> Fd<sup>9,32</sup> Lw<sup>9,32</sup></b>	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI	2.00
																		Others	1.00	
SBSdk	04	1064591	Fd PI Sx <sup>28</sup>	Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
<b>SBSdk climate change 2013</b>	<b>04</b>	<b>1064592</b>	<b>Fd<sup>9,18,32</sup> PI Sx<sup>28</sup> Lw<sup>32</sup></b>		600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
SBSdk	05	1064593	PI Sx <sup>28</sup>	Fd <sup>9,18</sup> Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
<b>SBSdk climate change 2013</b>	<b>05</b>	<b>1064594</b>	<b>PI Sx<sup>28</sup> Fd<sup>9,18,32</sup> Lw<sup>32</sup></b>		600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
SBSdk	06	1064595	PI Sx	Fd <sup>9,18</sup> Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
<b>SBSdk climate change 2013</b>	<b>06</b>	<b>1064596</b>	<b>PI Sx Fd<sup>9,18,32</sup> Lw<sup>32</sup></b>		600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	

Bio-geo-climatic Zone			Species														Regen Delay	Assessment	Min. Height(ii)	
SBSdk	07	1064597	Sx <sup>1,32</sup>	PI <sup>1</sup>	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI	1.40
																		Others	0.80	
SBSdk climate change 2013	07	1064598	Sx <sup>1,32</sup> Fd <sup>9,18,32</sup> Lw <sup>32</sup>	PI <sup>1</sup>	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI	1.40
																		Fd	1.40	
																		Others	0.80	
SBSdk	08	1064599	Sx <sup>1,32</sup>		600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	All	1.00
SBSdk	09	1064600	PI <sup>1</sup> Sb <sup>1</sup>	Sx <sup>1</sup>	200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI	1.40
																		Others	0.80	
SBSdk	10	1064601	PI <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>		200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI	1.40
																		Others	0.80	
SBSmc2	01	1064602	PI Sx BI <sup>29</sup>	Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI	1.60
																		Others	0.80	
SBSmc2	02	1064603	PI	BI Sx <sup>32</sup> Pa	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI	1.20
																		Others	0.60	
SBSmc2	03	1064604	PI Sx <sup>32</sup>	BI <sup>29</sup> Sb Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	7	20	PI	1.60
																		Others	0.80	
SBSmc2	05	1064605	PI Sx BI <sup>29</sup>	Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI	1.60
																		Others	0.80	
SBSmc2	06	1064606	PI Sx BI <sup>29</sup>	Pa	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI	1.60
																		Others	0.80	
SBSmc2	07	1064608	PI Sb Sx <sup>32</sup>	BI	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI	1.20
																		Others	0.60	
SBSmc2	08	1064609	PI Sx BI <sup>29</sup>		600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI	1.60
																		Others	0.80	
SBSmc2	09	1064610	Sx BI <sup>29</sup>	PI	600	300	250	800	400	300	1000	500	400	1200	700	600	4	20	PI	1.60
																		Others	0.80	
SBSmc2	10	1064611	Sx <sup>1,32</sup> BI <sup>1,29</sup>	PI <sup>1</sup>	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI	1.20
																		Others	0.60	
SBSmc2	12	1064612	Sb <sup>1</sup> Sx <sup>1,32</sup>	PI <sup>1</sup> BI <sup>1</sup>	200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI	1.20
																		Others	0.60	
<b>Fire Management</b>																				
SBSdk-WUI-HRV	01	1064623	PI Sx	Fd <sup>9,18</sup> At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
SBSdk-WUI-HRV Climate Change 2013	01	1064624	PI Sx Fd <sup>9,18,32</sup> Lw <sup>32</sup>	At Ep	400	200	200	600	300	250	800	400	300	1000	500	500	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	

Bio-geo-climatic Zone			Species														Regen Delay	Assessment	Min. Height(ii)	
SBSdk-WUI-HRV	02	1064625	PI	Sx <sup>28</sup> At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI	1.40
																		Others	0.80	
SBSdk-WUI-HRV	03	1064626	PI	Sx <sup>28</sup> Sb <sup>28</sup> At	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI	2.00
																		Others	1.00	
SBSdk-WUI-HRV Climate Change 2013	03	1064627	PI	Sx <sup>28</sup> Sb <sup>28</sup> Fd <sup>9,32</sup> Lw <sup>9,32</sup>	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI	2.00
																		Others	1.00	
SBSdk-WUI-HRV	04	1064628	Fd PI Sx <sup>28</sup>	At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
SBSdk-WUI-HRV Climate Change 2013	04	1064629	Fd <sup>9,18,32</sup> PI Sx <sup>28</sup> Lw <sup>32</sup>	At Ep	400	200	200	600	300	250	800	400	300	1000	500	500	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
SBSdk-WUI-HRV	05	1064630	PI Sx <sup>28</sup>	Fd <sup>9,18</sup> At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
SBSdk- WUI-HRV Climate Change 2013	05	1064631	PI Sx <sup>28</sup> Fd <sup>9,18,32</sup> Lw <sup>32</sup>	At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
SBSdk-WUI-HRV	06	1064632	PI Sx	Fd <sup>9,18</sup> Act At Ep	400	200	200	600	300	250	800	400	300	1000	500	500	4	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
SBSdk-WUI-HRV Climate Change 2013	06	1064633	PI Sx Fd <sup>9,18,32</sup> Lw <sup>32</sup>	Act At Ep	400	200	200	600	300	250	800	400	300	1000	500	500	4	20	PI	2.00
																		Fd	1.40	
																		Others	1.00	
SBSdk-WUI-HRV	07	1064634	Sx <sup>1,32</sup>	PI <sup>1</sup>	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI	1.40
																		Others	0.80	
SBSdk-WUI-HRV Climate Change 2013	07	1064635	Sx <sup>1,32</sup> Fd <sup>9,18,32</sup> Lw <sup>32</sup>	PI <sup>1</sup> Act At Ep	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI	1.40
																		Fd	1.40	
																		Others	0.80	
SBSdk-WUI-HRV	08	1064636	Sx <sup>1,32</sup>	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 <sup>1</sup> Sb <sup>1</sup>	Sx <sup>1</sup>	200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI	1.40
																		Others	0.80	
SBSdk-WUI-HRV	10	1064638	PI <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>		200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI	1.40
																		Others	0.80	
SBSmc2-WUI-HRV	01	1064613	PI Sx BI <sup>29</sup>	At	400	200	200	600	300	250	800	400	300	1000	500	500	7	20	PI	1.60



Bio-geo-climatic Zone			Species														Regen Delay	Assessment	Min. Height(ii)	
																			Others	0.80
SBSmc2-WUI-HRV	02	1064614	PI	BI Sx <sup>32</sup> At	400	200	200	600	300	250	800	400	300	1000	500	400	7	20	PI	1.20
																			Others	0.60
SBSmc2-WUI-HRV	03	1064615	PI Sx <sup>32</sup>	BI <sup>29</sup> Sb At	400	200	200	600	300	250	800	400	300	1000	500	500	7	20	PI	1.60
																			Others	0.80
SBSmc2-WUI-HRV	05	1064616	PI Sx BI <sup>29</sup>	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	06	1064617	PI Sx BI <sup>29</sup>	At Act	400	200	200	600	300	250	800	400	300	1000	500	500	4	20	PI	1.60
																			Others	0.80
SBSmc2-WUI-HRV	07	1064618	PI Sb Sx <sup>32</sup>	BI At	400	200	200	600	300	250	800	400	300	1000	500	400	4	20	PI	1.20
																			Others	0.60
SBSmc2-WUI-HRV	08	1064619	PI Sx BI <sup>29</sup>	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	09	1064620	Sx BI <sup>29</sup>	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 <sup>1,32</sup> BI <sup>1,29</sup>	PI <sup>1</sup> 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 <sup>1</sup> Sx <sup>1,32</sup>	PI <sup>1</sup> BI <sup>1</sup>	200	100	100	300	125	125	300	150	150	400	200	200	4	20	PI	1.20
																			Others	0.60

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## Appendix C: Maps

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**Wetzin'kwa Community Forest Corporation**  
**Forest Stewardship Plan 2019-2024**  
**Forest Stewardship Plan Extended 2024-2029**  
**Supplemental Information**

**Dated May 5, 2020**  
**Extended MONTH DAY, 2024**

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1.0 INTRODUCTION AND INTERPRETATION .....	4
1.1 Licensee Information .....	6
1.2 Objective History .....	6
1.3 Planning Intent.....	7
2.0 APPLICATION OF THIS FSP .....	7
2.1 Licence .....	7
2.2 Application of this FSP to Cutting Permits, Cutblocks and Road Permits .....	7
3.0 TERM OF THIS FSP.....	7
4.0 IDENTIFYING FOREST DEVELOPMENT UNITS.....	7
4.1 Boundaries of FDU's .....	7
4.2 Areas Considered Approved .....	8
5.0 RESULTS AND STRATEGIES.....	8
5.1 Objectives set by Government For Biodiversity .....	8
5.1.1 Ecosystem Representation: Core Ecosystems .....	8
5.1.2 Connectivity: Landscape Corridors .....	9
5.1.3 Seral Stage .....	10
5.1.4 Objectives set by Government for Wildlife and Biodiversity – Landscape Level.....	12
5.1.5 Tree Species Diversity .....	17
5.1.6 Stand Structure .....	17
5.1.7 Sensitive Areas.....	18
5.2 Objectives set by Government For Wildlife .....	18
5.2.1 Activities Related to Wildlife Species.....	18
5.3 Objectives set by Government For Fish Habitat and Water Quality.....	19
5.3.2 Objectives set by Government For Fish Habitat in Fisheries Sensitive Watersheds.....	20
5.3.3 Objectives set by Government for Water in Community Watersheds .....	20
5.3.4 Objectives for Fish Habitat.....	21
5.4 Enhanced Timber Development Areas .....	21
5.5 Objectives for Outdoor Recreation.....	22
5.5.1 Recreation Opportunities .....	22
5.5.2 Recreational Access .....	23
5.6 Visual Quality.....	24
5.7 Objectives set by Government for Cultural Heritage Resources .....	24
5.8 Objectives set by Government for Soils.....	25
5.9 Resource Management Zones .....	25
6.0 MEASURES .....	27
6.1 Measures for Preventing the Introduction or Spread of Invasive Plants.....	27
6.2 Measures to Mitigate the Loss of Natural Range Barriers.....	27
7.0 STOCKING STANDARDS.....	28
7.1 Definitions:.....	28
7.2 Special Circumstances: .....	28
7.3 Appendix “B” Partial Cutting Stocking Standards .....	28
9.0 Climate Change Adaptation .....	30
9.1.1 Forest Health Issues.....	30
9.1.2 Stocking Standards .....	33
9.1.3 Stocking Standards for Fire Management Stands.....	33
9.1.4 Other Initiatives Related to Reforestation and Climate Change .....	35
10.0 Other topics from the Skeena Stikine Resource District Manager FSP Expectations Letter .....	36
10.1 First Nations, Stakeholders and Public Engagement .....	36
10.2 Northern Goshawk .....	37
Appendix A: K2P Management Plan .....	38
Appendix B: MOU with Bulkley Valley Cross-Country Ski Club.....	39
Appendix C: MOU with Smithers Mountain Bike Association .....	40
Appendix D: Referral Distribution List Referral/Letters.....	41
Appendix E: Letters received from Review and Comment Period.....	42
Appendix F: Responses to Letters received from Review and Comment Period.....	43
Appendix G: “Carbon Goals and Strategies for the Wetzin’kwa Community Forest Corporation” .....	44
Appendix H: Wetzin’kwa Migratory Bird Policy (Draft) .....	45

## 1.0 INTRODUCTION AND INTERPRETATION

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.

Wetzin'kwa Community Forest Corporation (WCFC) is committed to:

- involving the community
- working with the Wet'suwet'en people,
- land stewardship
- enhancing outdoor recreation and education
- a healthy community forest economy.

Table 1 shows the correlation between the goals and guiding principles of WCFC Management Plan and the WCFC FSP's results and strategies. The WCFC Management Plan is included under Appendix A.

In addition to the forest management direction of WCFC, this supplemental information makes significant reference to the approved Pacific Inland Resources Forest Stewardship Plan and its' supporting document.

**Table 1: Correlation of WCFC Management Plan and the WCFC FSP**

Goals of WCFC Management Plan	Section of FSP to refer to Management of the Goal of the WCFC Management Plan	Comments
Planning and management that will reflect the local communities' values	Sec 5.1, 5.2, 5.4, 5.5, 5.6 & 5.9	Public participation in the Bulkley LRMP process initiated by the CRB provided direction on biodiversity, wildlife, enhances timber development, outdoor recreation and resource management zones
	Sec. 2.4	Additional input from the community of new information was considered for incorporation into the FSP document
Encouraging compatible multiple uses on the landbase by various users	Sec 5.2	Wildlife viewing and hunting
	Sec 5.3	Management for water quality (community watershed) and fish habitat
	Sec 5.5	Management for access to recreation sites & trails
	Sec 5.6	VQO Management
	Sec 5.7	Management for cultural resources
	Sec 5.9	Management of multiple resources in the RMZ
	Sec 6.2	Range Management
Public Review & Comment Period		Additional input of new information will be considered
Maintaining function integrity of ecosystems on the landbase for long term sustainability and diversity of plant and animal species	Sec 5.1	Management of Core Ecosystems, landscape corridors, seral stage targets and patch size distributions, trees species diversity, stand structure
	Sec 5.2	Management of wildlife habitat
	Sec 5.3	Management of fish wildlife and biodiversity
	Sec 5.8	Management of soil productivity

<b>Goals of WCFC Management Plan</b>	<b>Section of FSP to refer to Management of the Goal of the WCFC Management Plan</b>	<b>Comments</b>
	Sec 5.9	Management of multiple resources in a sustainable manner
	Sec 6.1	Prevention of spread of Invasive Plants
	Sec 6.2	Maintenance of natural range barriers
	Sec 7.0	Re-forestation of ecological suitable species
<b>Guiding Principles of the WCFC Management Plan</b>	<b>Section of FSP to refer to Management of the Guiding Principles of the WCFC Management Plan</b>	<b>Comments</b>
To sustain a financially viable forest resources business for the long-term benefit of residents in the Bulkley Valley	Sec 5.0 thru to sec 7.0	Sustainable management of all the resources will provide the foundation of a financially viable forest resource business over the long term  Stocking standards and related commitments ensure forests long into the future
To maintain and sustain functional integrity of ecosystems	Sec 5.1	Management of Core Ecosystems, landscape corridors, seral stage targets and patch size distributions, trees species diversity, stand structure
	Sec 5.2	Management of wildlife habitat
	Sec 5.3	Management of fish wildlife and biodiversity
	Sec 5.8	Management of soil productivity
	Sec 5.9	Management of multiple resources in a sustainable manner
	Sec 6.1	Prevention of spread of Invasive Plants
	Sec 6.2	Maintenance of natural range barriers
To protect water quality in watersheds	Sec 5.3	Management of fish, wildlife and biodiversity
	Sec 5.8	Management of soil compaction and erosion
	Sec 5.9	Management of multiple resources in a sustainable manner
To maintain a healthy balance of all plants and animals	Sec 5.1	Management of Core Ecosystems, landscape corridors, seral stage targets and patch size distributions, trees species diversity, stand structure
	Sec 5.2	Management of wildlife habitat
	Sec 5.3	Management of fish, wildlife and biodiversity
	Sec 5.8	Management of soil productivity
	Sec 5.9	Management of multiple resources in a sustainable manner
	Sec 6.1	Prevention of spread of Invasive Plant
	Sec 6.2	Maintenance of natural range barriers
To recognize the Wet'suwet'en people and their culture	Sec 2.4 and 5.7	Management of cultural resources
To establish long lasting, respectful relationship between the partners	Sec 5.0 thru to sec 7.0	Sustainable management of all forest resources should create a long lasting respectful relationship between the partners
To expand local small business opportunities and employment when and where feasible		Provided through the sustainable management of the Community Forest Agreement
To provide a safe and environmentally friendly work environment		WorksafeBC provides direction for workplace safety
To enhance outdoor educational and recreational opportunities	Sec 5.5	Management of multiple resources in a sustainable manner
	Sec 5.9	Management of multiples in a sustainable manner
To increase community involvement in resource management	Public Review & Comment Period and sec 2.4	Additional input from the community of new information will be considered for incorporation into FSP document
To reflect community values in decision making	Public Review & Comment Period and sec 2.4	Additional input from the community of new information will be considered for incorporation into FSP document

## 1.1 Licensee Information

Wetzin'kwa Community Forest Corporation (WCFC) was established in 2007 and was granted a full Community Forest Agreement (K2P) in 2010. The K2P licence had an original AAC of 30,000 m<sup>3</sup>, but in 2010 received a temporary (5 year) AAC uplift of 95,000 m<sup>3</sup> to address the salvage of mountain pine beetle infested pine. Upon the completion of this 5 year period a new management plan was completed in 2015. A new sustainable AAC of 30,304 m<sup>3</sup> was established in 2016.

## 1.2 Objective History

The Skeena-Stikine District (formerly the Bulkley District) has had a long history of land and resource management planning. The Community Resources Board was formed in 1991 with the intent of having individuals with a broad range of interests develop a land and resource management plan (LRMP) for the Bulkley TSA. The Bulkley LRMP was compiled over a number of years and it provides broad guidance to local resource planning. Further and more specific guidance is provided through the landscape unit plans which were developed by resource management professionals from the Ministry of Forests, Ministry of Environment, and Forest Licensees.

Under a Forest Stewardship Plan licensees are required to address objectives set by government. A brief overview of the objective history for the Bulkley TSA is:

- In March of 1998 the Bulkley Land and Resource Management Plan was completed. Approval and direction to implement this plan was given by Cabinet, however the content or objectives within the plan were not legislated,
- On November 4, 1998 Biodiversity objectives contained within landscape unit plans (Babine, Chapman, Copper, Deep Creek, Blunt, Harold Price, Nilkitkwa, Reisetser, Telkwa, Torkelson and Trout Creek) were approved by the District Manager of the Ministry of Forests and the Designated Environment Official,
- On December 19, 2000 an “Order Establishing Resource Management Zones and Resource Management Zone Objectives within the area covered by the Bulkley Land and Resource Management Plan, March 1998” was approved. This order took the key zonations and management objectives from the LRMP and made them legal.
- In September of 2005 the Bulkley Valley Sustainable Resource Management Plan was completed. This plan was approved by the Ministry of Agriculture and Lands as a policy objective. This plan equates to the previously compiled landscape unit plans.

Upon review of the objectives to be considered within the context of the Forest Stewardship Plan, other licensees found that duplication and lack of clarity existed. An initiative was undertaken by the government (Integrated Land Management Bureau) to clarify and restate the pertinent objectives in a clear and concise manner. As a result, a new order entitled “Bulkley LRMP Objectives Set by Government – September 2006” establishing objectives for the Bulkley TSA was developed and approved on November 6, 2006 under section 93.4 (1) of the *Land Act*. This set of objectives replaces Appendix 1 of the “Order Establishing Resource Management Zones and Resource Management Zone Objectives within the area covered by the Bulkley Land and Resource Management Plan, March 1998” approved December 19, 2000.



88 Appendix 2 and 3 of the order approved on December 19, 2000 remain in effect as higher level  
89 plan objectives for the Bulkley TSA.

90  
91 WCFC has incorporated the objectives out of this order into its FSP, as this order provides the  
92 latest and most refined compilation of legal direction.

### 93 ***1.3 Planning Intent***

94  
95 In compiling this FSP, WCFC has considered all of the pertinent and applicable Objectives Set  
96 by Government. The historic resource management direction in the Bulkley Timber Supply  
97 Area (TSA) was developed under the Forest Practices Code (FPC). This historic management  
98 direction developed under the FPC is not readily transferable and manageable under the Forest  
99 and Range Practices Act (FRPA) regime.

~~100~~  
103 Where previous management direction was guided locally and contained flexibility, results and  
104 strategies associated with objectives compiled within the Forest Stewardship Plan become  
105 legally binding. For this reason WCFC’s FSP has incorporated results and strategies that  
106 address legal objectives without creating unnecessary legal burdens. That being the case,  
107 WCFC recognizes that additional management direction exists outside of the legal context of  
108 the FSP.

## 109 **2.0 APPLICATION OF THIS FSP**

### 110 ***2.1 Licence***

111  
112 Basic information on WCFC’s community forest licence K2P is contained in section 1.0 of  
113 this background information.

### 114 ***2.2 Application of this FSP to Cutting Permits, Cutblocks and Road Permits***

115  
116 Generally, only the activities carried out under this FSP will be subject to the results or  
117 strategies contained within this FSP. WCFC has several active cutting permits, but since these  
118 active cutting permits were all established after FRPA was in effect, all future timber  
119 harvesting will be under the FRPA and the associated regulations.

## 120 **3.0 TERM OF THIS FSP**

121  
122 This FSP will have a term of five years following FSP approval or as specified by the District  
123 Manager. As the FSP contains objectives and results and strategies derived mainly from  
124 processes involving the public and lacks block specific information, WCFC’s expectation is  
125 that the term will likely be extended pursuant to the Act and the regulations.

126  
127 The FSP will be extended in November 2024. In 2023 a forest landscape process was started  
128 for the Bulkley and Morice Timber Supply Areas. This creates a period of significant  
129 uncertainty, that will require creating a forest operations plan to meet legal requirements for  
130 forest planning. An FSP extension at this time is significantly less time consuming for WCFC,  
131 First Nations, provincial government and stakeholders with interests in the community forest.

## 132 **4.0 IDENTIFYING FOREST DEVELOPMENT UNITS**

### 133 ***4.1 Boundaries of FDU’s***

134

135 The boundaries of the FDU are the same as the boundaries of the Wetzin'kwa Community Forest  
136 Corporation's Licence Agreement Area (K2P).  
137

## 138 ***4.2 Areas Considered Approved***

139  
140 Cutting Permits and Road Permits that are currently held by the FSP holder are listed in this  
141 section.

## 142 **5.0 RESULTS AND STRATEGIES**

143  
144 WCFC will manage under the direction of the Higher Level Plan Objectives. Therefore the  
145 results and strategies contained in WCFC's FSP were crafted in order to maintain a minimum  
146 standard that will continue to meet the intent of the Higher Level Plan Objectives as well as  
147 the intent of the Landscape Unit Plans in the Bulkley TSA.  
148

149 Our intent in the measuring of landscape unit level results and strategies such as seral stage,  
150 patch size, and landscape riparian corridors is to measure them across the area of WCFC's  
151 FDU that overlaps a particular landscape unit. In the Telkwa, Bulkley Valley, Trout Creek,  
152 and Copper Landscape Units licensees other than WCFC have operating areas. In landscape  
153 units where more than one licensee has operating areas it is our assumption that it is each  
154 licensee's responsibility to achieve the results and strategies they have proposed over their  
155 operating area in each Landscape Unit. The community forest agreement area has exclusive  
156 rights to harvest timber within an area-based tenure. Other licensee cannot harvest timber  
157 within our area and Wetzin'kwa cannot harvest outside of their area.  
158

### 159 ***5.1 Objectives set by Government For Biodiversity***

160 The following sections include analyses that were completed for the initial version of the Forest  
161 Stewardship Plan Supplemental Information. Since then Wetzin'kwa has subscribed to analyses  
162 completed by Forsite Consultants Ltd. These analyses provide updated landscape unit-level  
163 information for each of the subsections below.

#### 164 **5.1.1 Ecosystem Representation: Core Ecosystems**

165  
166 Core Ecosystems have been established across the Bulkley TSA. The core ecosystems were  
167 established to cumulatively maintain the following values:  
168

- 169 • represent a cross section of naturally occurring ecosystems
- 170
- 171 • provide some areas with interior forest conditions and
- 172
- 173 • provide some areas with examples of rare and endangered plant ecosystems.
- 174

175 The expectation is that by managing the entire core ecosystems across the Bulkley TSA, as  
176 proposed in WCFC's FSP, all the values listed above will be maintained.  
177

178 No direction is provided within the LRMP as to how much harvesting can take place within a  
179 CORE ecosystem without compromising the integrity and function of the ecosystem. If  
180 salvage or sanitation harvest is planned, the harvesting will be completed according to the  
181 FSP's Figure 1: "Decision Matrix for Harvesting in Core Ecosystems". WCFC will not  
182 harvest within a CORE Ecosystem unless the plan is directed and approved by the District  
183 Manager.

184 **5.1.2 Connectivity: Landscape Corridors**

185 WCFC’s intent is to manage landscape riparian corridors (LRC) under the direction of the  
186 Bulkley landscape unit plans. As in our previous FSP, WCFC will continue with the following  
187 management tools:  
188

189 **i. Measuring of 70% Functional Old Forest**  
190

191 In the past, the 70% functional old forest has been evaluated for each LRC  
192 that was established in the Bulkley TSA. Wetzinkwa will continue with the “3  
193 for 10” rule where 70% functional old forest is measured at a stand level not  
194 across an entire LRC. Therefore, for each cutblock proposed in a LRC,  
195 harvesting will not result in the area associated with the cutblock to be less  
196 than 70% functional old forest. The area associated with a cutblock will be  
197 adjacent to the proposed cut block but may not be in the total area under the  
198 plan. It is the responsibility of the forester preparing a site plan and or harvest  
199 plan to ensure the area associated with the cut block meets the “3 for 10” rule.  
200 This allows for harvesting of timber in LRC’s that currently may contain less  
201 than 70% functional old forest, as long as the area associated with a cut block  
202 maintains 70% functional old forest. For example if there is an area of  
203 functional old forest in an LRC that is 9 ha in size then a maximum clearcut  
204 area of 2.7 ha can be harvested. Where alternatives to clearcut harvesting such  
205 as group selection or single tree selection are used the area of harvest is not  
206 limited as long as the post-harvest stand is deemed to be functional old forest.  
207

208 **ii. Maximum Opening Size**  
209

210 The current management under LUP’s, allows a maximum opening size in an  
211 LRC of 3.0 hectares if clearcut. This FSP proposes that where the stand is  
212 infested with beetles the maximum clearcut opening size should be that opening  
213 size required to remove the infestation. If openings greater than 3.0 hectares are  
214 required to remove beetle infested timber then WCFC will make all reasonable  
215 efforts to retain as much structure as possible post-harvest by retaining un-  
216 infested species, poles saplings, and stubs in wind firm patches. Any units  
217 harvested that are greater than 3.0 ha will contain at least 30% infestation (grey,  
218 red and green attack) of the pine measured in the cruise or if no cruise is  
219 available estimated during mountain pine beetle probing.  
220

221 Any clearcut units that are greater than 3.0 ha in size must still meet the  
222 requirement of 70% functional old forest associated with the cutblock. For  
223 example if an area of 4.5 ha is infested with MPB then in order to harvest the  
224 entire 4.5 ha of infested timber the total area that will need to be associated with  
225 the cutblock is 15 ha. As well the blocks will require a 100 meter wide buffer  
226 to maintain a Functional Old Forest corridor associated with the clearcut  
227 opening within the Landscape Corridor.  
228

229 Wetzinkwa also added in the FSP a statement regarding retention in openings  
230 greater than 1 ha. Wetzinkwa will retain  $\geq 60$  stems/ha of which 50% must  
231 be greater than 15 cm dbh to try to maintain mature tree cover within the  
232 corridor and provide continuity in the corridor for wildlife habitat.  
233

234 The following table is the summary of two analyses of the amount of CFLB (Crown Forested  
235 Landbase) in the different landscape corridors within the community forest:

236 **Table 2: Summary of two analyses of the amount of CFLB in the different landscape**  
 237 **corridors within the Wetzin’kwa Community Forest agreement area**

<b>Landscape Corridor</b>	<b>HLPO 2021 - % of CFLB greater than 80 years old</b>	<b>Wetzin’kwa Analysis - % of CFLB greater than 80 years old</b>
Aldrich Lake	89%	86%
Hankin East	83%	86.3%
Passby Creek	96%	96.7%
Pine Creek	87%	85.6%
Pine Creek West	96%	90%
Silvern	64%	72.9%
Toboggan Creek	100%	100%
Upper Copper	84%	77.8%
Willow Creek	70%	71%

238 **5.1.3 Seral Stage**  
 239

240 Seral Stage GIS analysis was completed by Forsite for all blocks harvested and approved  
 241 within the community forest agreement area, for each landscape unit and BEC subzone in  
 242 2021. Each harvested and approved block was assigned the following:  
 243

- 244 1.) BEC subzone. If a block straddles more than 1 BEC subzone, the block would be  
 245 split along the mapped subzone. If the actual coverage BEC subzone in the field was  
 246 different than the mapped BEC subzone coverage, the mapped coverage was still  
 247 used.
- 248 2.) VRI information for the different seral stages (young, mid, mature and old). The VRI  
 249 coverage used was the 2021 VRI coverage created updated in June 2019

250 **Summary of GIS analysis**  
 251

252 The following table summarizes the seral stage analysis for the different landscape units and  
 253 BEC subzones in the entire landscape units that overlap with the community forest  
 254 agreement area. The maximum young, the minimum mature & old, and the minimum old are  
 255 the seral stage targets that we are managing towards as found in the FSP and Bulkley LRMP.  
 256  
 257  
 258

259 **Table 3: Summary of the seral stage analysis for the different landscape units and BEC**  
 260 **subzones that overlap with and extend beyond Wetzin’kwa Community Forest**

<b>Landscape Unit &amp; BEC Subzone</b>	<b>Target Young (%)</b>	<b>Actual Young (%)</b>	<b>Target Mat &amp; Old (%)</b>	<b>Actual Mat &amp; Old (%)</b>	<b>Target Old (%)</b>	<b>Actual Old (%)</b>
<b>Bulkley</b>						
SBSdk	n/a	26	n/a	42	10	19
SBSmc2	n/a	30	n/a	50	10	34
ESSFmc	n/a	9	n/a	78	n/a	2
ESSFwv	n/a	0	n/a	100	n/a	15
ICHmc	n/a	21	n/a	71	n/a	4
<b>Copper</b>						
CWHws	36	1	34	99	9	81
ESSFmc	36	22	28	68	9	11
ESSFwv	22	6	36	90	19	40
SBSmc2	54	37	23	55	11	46
MHmm	22	1	36	99	19	81
ICHmc	n/a	22	n/a	61	n/a	27
<b>Telkwa</b>						
CWHws	36	7	34	92	9	56
ESSFmc	36	4	28	84	9	27
ESSFmk	22	0	36	95	19	52
ESSFwv	22	11	36	88	19	55
ICHmc	n/a	22	n/a	62	n/a	0
SBSdk	54	27	23	58	11	21
SBSmc2	54	33	23	60	11	46
<b>Trout Creek</b>						
ESSFmc	n/a	0	n/a	100	n/a	0
ESSFwv	22	5	36	90	19	27
ICHmc1	36	27	31	62	9	17

261

**Target exceeded**

262

263 **Comments and Discussion**

264 Table 3 shows the harvesting levels in the entire landscape units, rather than the portion of  
 265 landscape units that overlap with the community forest.

266

267 **Copper LU and Bulkley LU**

268 In both the Bulkley and Copper LU, the seral stage targets have not been exceeded within the  
 269 community forest agreement area.

270

271 **Trout Creek LU**

272

273 **ESSFwv**

274 Within the Trout Creek Landscape Unit within the ESSFwv, the amount of Old is below the  
 275 established target. Over the entire Trout Creek Landscape Unit within the ESSFwv subzone  
 276 (as per the Bulkley HLPO 2017 report) the amount of Old is also below the target. The  
 277 strategy for achieving the ‘old’ target will be via the recruitment from the ‘mature & old’

278 category. This recruitment area is about 367 ha and has been spatially located within the  
279 mapped mountain goat habitat within the community forest of the Trout Creek LU within  
280 the ESSFwv.

281  
282 **It should be noted that Wetzin’kwa has not undertaken any harvesting yet within the**  
283 **ESSFwv subzone of the Trout Creek LU.**

284  
285 **Telkwa LU**

286  
287 **ESSFmc**

288 Within the Community forest portion of the Telkwa Landscape Unit within the ESSFmc, the  
289 amount of Old is below the established targets. The mature and old target does not exceed  
290 the target and is ample mature timber for old seral stage recruitment. The recruitment area  
291 will be mature timber in the CORE within Telkwa LU in the ESSFmc. This area of mature  
292 timber is approximately 123 ha.

293  
294 **ESSFwv**

295 Within the Community forest portion of the Telkwa Landscape Unit within the ESSFwv, the  
296 amount of Old is below the established targets and the amount of early is above the target.  
297 No harvesting will take place in this unit until the early target falls below the maximum  
298 threshold.

299  
300 **It should be noted that Wetzin’kwa has not undertaken any harvesting yet within the**  
301 **ESSFwv subzone of the Telkwa LU.**

302  
303 **SBSdk**

304  
305 Within the Community forest portion of the Telkwa Landscape Unit within the SBSdk, the  
306 amount of Young is above the target and the amount of Old is below the target. The  
307 harvesting in this area pre-dates the establishment of the K2P community forest area. To  
308 date, no harvesting by Wetzin’kwa has occurred within this Landscape Unit within this BEC  
309 subzone. If harvesting is proposed within the community forest within the Telkwa LU within  
310 the SBSdk, a strategy will be developed with other licencees which have an operating area  
311 within the Telkwa LU’s SBSdk.

312  
313 **It should be noted that Wetzin’kwa has not undertaken any harvesting yet within the**  
314 **SBSdk subzone of the Telkwa LU.**

315  
316 Wetzinkwa intends to keep a running total of the Old, Mature, Juvenile and Young during  
317 the FSP term to ensure we are meeting the seral stage targets outlined in Table 1 of the  
318 Bulkley LRMP (HLPO 2006). An analysis will be completed on the community forest  
319 tenure area at the end of the FSP term to ensure we are meeting the targets within the  
320 community forest area.

321 **5.1.4 Objectives set by Government for Wildlife and Biodiversity – Landscape**  
322 **Level.**

323  
324 Patch size distribution (PSD) analysis was completed for all blocks harvested and  
325 approved in the community forest agreement area as of May 31, 2019. Separate analysis  
326 was completed for each Landscape Unit and natural disturbance type (NDT) combination.

327  
328 Two separate analyses were initially completed using two different rules.

329 The first analysis (pre-2017 PSD) the block was categories using the following rules;  
330 1.) If the block straddles more than 1 NDT type, the block would be split along the  
331 NDT type.  
332 2.) The NDT type line is derived from the mapped NDT type coverage. If the actual  
333 NDT in the field is different than the mapped NDT type coverage, the mapped  
334 coverage was still used.  
335 3.) The block is tagged with an age since harvest.  
336 4.) A patch size class is comprised of areas recently disturbed by harvesting that are  
337 contiguous and within the same 20 year age class.  
338 5.) Areas within the same 20 year age class are considered to be contiguously if they  
339 are immediately adjacent to each other.  
340 6.) The analysis includes all harvest areas that are younger than the age defined as  
341 “juvenile” (<40 years)  
342

343 The second analysis (post-2017 PSD) the block was categories using the following rules;  
344 1.) If the block straddles more than 1 NDT type, the block would be split along the  
345 NDT type.  
346 2.) The NDT type line is derived from the mapped NDT type coverage. If the actual  
347 NDT in the field is different than the mapped NDT type coverage, the mapped  
348 coverage was still used.  
349 3.) The block is tagged with an age since harvest.  
350 4.) A patch size class is comprised of areas recently disturbed by harvesting that are  
351 contiguous and are under 20 year of age.  
352 5.) Areas within the same 20 year age class are considered to be contiguously if they  
353 are within 100 meters of each other.  
354 6.) The analysis includes all harvest areas that are younger than the age of 20 years.  
355

356 All blocks that were harvested or approved before May 31, 2019 were included within  
357 both analyses.  
358

359 The following tables (Table 4) are the patch size distribution for the community forest  
360 agreement area in the different NDT in each LU.  
361

362 **Table 4: Pre-2021 Patch Size Distribution in landscape units that overlap with and**  
 363 **extend beyond Wetzin’kwa Community Forest \***  
 364

	Large		Medium		Small	
Landscape Unit - NDT	Target	Actual	Target	Actual	Target	Actual
Bulkley – NDT2	20-40 %	67%	30-40 %	0.0 %	30-40 %	22%
Bulkley – NDT3	50-80 %	0.0 %	10-20 %	60%	10-20 %	40%
Copper – NDT1	20-40 %	57%	30-40 %	17%	30-40 %	27%
Copper – NDT2	20-40 %	51%	30-40 %	20%	30-40 %	29%
Copper – NDT3	60-80 %	0%	10-20 %	78%	10-20 %	22%
Telkwa – NDT1	20-40 %	58%	30-40 %	22%	30-40 %	20%
Telkwa – NDT2	20-40 %	23%	30-40 %	36%	30-40 %	40%
Telkwa – NDT3	60-80 %	9%	10-20 %	64%	10-20 %	27%
Trout Creek – NDT1	30-40%	0%	30-40%	47%	20-40%	53%
Trout Creek – NDT2	30-40%	29%	30-40%	21%	20-40%	49%
Trout Creek – NDT3	10-20%	0%	10-20%	51%	60-80%	49%

\* Completed by Forsite with data compiled from all licensees within the Landscape Units.

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**Table 5: Wetzin’kwa post-2021 Patch Size Distribution:**

Landscape Unit & NDT	Large		Medium		Small	
	Target	Actual	Target	Actual	Target	Actual
Bulkley – NDT2	20-40 %	0.0 %	30-40 %	0.0 %	30-40 %	100 %
Bulkley- NDT3	60-80 %	0.0 %	10-20 %	4.4 %	10-20 %	95.6 %
Copper- NDT1	20-40 %	0.0 %	30-40 %	21.0 %	30-40 %	79.0 %
Copper- NDT2	20-40 %	22.7 %	30-40 %	32.3 %	30-40 %	45.5 %
Copper- NDT3	60-80 %	8.0 %	10-20 %	71.0 %	10-20 %	21.0 %
Telkwa- NDT1	20-40 %	0.0 %	30-40 %	0.0 %	30-40 %	0.0 %
Telkwa- NDT2	20-40 %	0.0 %	30-40 %	100.0 %	30-40 %	0.0 %
Telkwa- NDT3	60-80 %	0.0 %	10-20 %	75.9 %	10-20 %	24.6 %

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**Comments**

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Wetzin’kwa has not undertaken any harvesting in the Trout Creek LU.

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The majority of the Bulkley LU is located within the Community Forest RMZ. Within the Community Forest RMZ, Wetzin’kwa has stated in its previous FSP that no patches will be greater than 10 hectares in size. Therefore the patch sizes are distributed to the small size patch.

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Wetzin’kwa has undertaken significant harvesting within the Telkwa LU. The majority of the area east of Pine Creek is located within the Community Forest RMZ. For the Community RMZ portion of this LU patch size, Wetzin’kwa has stated in their previous FSP that no patches will be will be greater than 10 hectares in size.

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Harvesting within the remaining Telkwa LU has been targeting the Pine leading stands as part of it beetle salvage program. The strategy often results in creation of small or medium patches as areas of non-pine types were excluded. Opportunity for “large” patches has been constrained by other resource values placed in this LU such as hydrological values and visual values.

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Wetzin’kwa has undertaken extensive harvesting within the Copper LU since the community forest licence came into existence. Harvesting within the Copper LU has been targeting the Pine leading stands and therefore patches have been medium to small for the most part. Due to previous harvesting before the community forest came into existence and the spatial distribution of the NDT3 as well as other resource values (CORE and Landscape Riparian Corridors), it is difficult to achieve large patches within the NDT3 (>250ha). Within NDT 2, the harvesting that has taken place is very close to the targets. Within NDT 1, very limited harvesting has taken place under the community forest agreement area so far.

399

## **Strategies for Achieving Patch Size Targets**

Strategies for achieving target levels for patch size distribution have been significantly deferred as harvest attentions have been directed to the salvage of mountain pine beetle infested stands. The salvage of infested stands resulted in creation of small or medium patches as areas of non-pine types are excluded from the block areas. The rationale for excluding non-pine types conforms to both Wetzin'kwa's protocol of targeting infested timber for harvest, as well as the MFLNRO's stipulations attached to the K2P salvage AAC uplift, namely that, pine should represent a minimum of 80% of the timber harvested.

As Wetzin'kwa is out of its salvage AAC uplift, timber harvesting can be, for the first time, directed towards the full range of mature stand types. This move will enable the creation of units, either as stand-alone patches or as aggregations of smaller patches into the large patch category, which is deficient in area.

The portion of the Trout LU that falls within the K2P tenure is sufficiently small that achieving the target distribution of large patches, for either NDT category will be difficult due to other values such as visual quality objective and fishery sensitive watersheds. The strategy for achieving targets will be largely tied to cooperative planning with other licensees sharing the LU.

The majority of the Bulkley LU within the K2P tenure is located within the Community Forest RMZ which had been limited to patches less than 10 hectares in size. The remaining portion of the LU that falls outside of the Community Forest RMZ is sufficiently small that achieving the target distribution of large patches, for either NDT category will be difficult. The strategy for achieving target will be largely tied to continued cooperative planning with other licensees sharing the LU.

The portion of the LU that falls within the K2P tenure is sufficiently small that achieving the large distribution of large patches, for either NDT category will be difficult. The strategy for achieving target patch size distribution will be largely tied to cooperative planning with other licensees sharing the LU.

In the Copper LU, for NDT 1, the strategy is to try to amalgamate small patches into large patches. In the NDT 2 the strategy is to amalgamate small patches into medium and large patches. In NDT3, the strategy is to try to increase the size of some of the medium patches to create larger patches.

In the Community Forest RMZ, Wetzin'kwa is dropping the 10 ha patch size restriction which we had in place in previous FSP. With the new patch size distribution rule of having 100 meters between patches to be considered a separate patch, this will be cumbersome and restrictive. Other resource values such as the recreation values and visuals place constraints on timber harvesting already. Management of forest health and forest fuel reduction may result in larger patches than the 10 hectare size.

Wetzinkwa intends to keep a running total of the small, medium and large patch size distribution within our FDU during the FSP term to ensure that we are trending towards the targets outline in Table 2 of the FSP. An analysis will be completed on the community forest tenure area at the end of the FSP term to ensure we are trending to the patch size targets within the community forest area.

451 **5.1.5 Tree Species Diversity**

452  
453 In regards to conifer tree species diversity, this is being managed by following the preferred  
454 and acceptable species as outlined in the stocking standards.

455  
456 Management practices proposed in this FSP in regards to deciduous species are:

- 457  
458
- WCFC will focus WTP's and leave areas on deciduous species where the volume of standing timber of deciduous species in the cutblock is greater than 10% of the net merchantable volume of all standing timber in the cutblock
- 459  
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461
- WCFC will only conduct manual brushing treatments in areas designated as moose and deer winter habitat. These areas represent areas that naturally have a high component of deciduous species for ungulate winter browse. As a result a deciduous growing stock will be left on a significant portion of the community forest landbase.
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467  
468 In addition to the legal commitments in the FSP some management practices that WCFC will  
469 employ that will facilitate deciduous species being part of the future timber inventory are:

- 470
- WCFC generally will not target cutblocks where deciduous species is a major component of the merchantable volume.
  - WCFC will retain and maintain an active deciduous component within our proposed fire management unit stocking standards. Within the fire management unit stocking standard units, aspen, birch and cottonwood will be considered as acceptable species.
- 471  
472  
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477 **5.1.6 Stand Structure**

478  
479 WCFC's intent is to manage stand structure under the direction of the Bulkley HLPO. The  
480 anticipation is that in most cases the WTP requirements found in Table 2 (FSP) of the Stand  
481 Structure objective will be managed on a cutblockbasis. However, flexibility has been built  
482 into the strategies to allow WTP's to be met across the BEC subzone of a landscape unit.  
483 Therefore, for blocks that are less than 15 hectares the prescribing forester does not have to  
484 assign a block specific WTP that would be relatively small may be subject to blow down, and  
485 not functional towards achieving the stand level biodiversity goals for a WTP. Instead the  
486 prescribing forester can lump the WTP requirements for these blocks together and assign them  
487 as part of a larger block in the same landscape unit and BEC zone as long as the WTP reflects  
488 the original cutblock conditions immediately before harvest.

489  
490 Table 4 summarizes the Wildlife Tree Retention Area (WTRA) by LU and Subzone for all  
491 of the areas harvested under the K2P licence. You will note that for each subzone and LU  
492 combination that the retention percent exceeds the target specified in the Wetzin'kwa FSP.

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**Table 6: Wildlife Tree Retention Area – Summary**

<b>Landscape Unit</b>	<b>BEC Subzone</b>	<b>Gross Cutblock Area (ha)</b>	<b>WTRA Area (ha)</b>	<b>WTRA (%)</b>	<b>WTRA target (%)</b>
Bulkley	<b>SBSdk</b>	103.0	7.7	7.5	5
Bulkley	<b>SBSmc2</b>	274.0	18.1	6.6	7
Bulkley	<b>ESSFmc</b>	0.7	0.1	14.3	
Bulkley	<b>ICHmc1</b>	22.1	0.3	1.4	
Copper	<b>SBSmc2</b>	614.5	43.0	0.5	5
Copper	<b>ESSFmc</b>	381.9	23.1	6.0	1
Copper	<b>ESSFwv</b>	51.9	2.6	5.0	3
Copper	<b>ICHmc1</b>	204.4	17.1	8.4	
Telkwa	<b>SBSmc2</b>	1168.1	96.4	8.3	7
Telkwa	<b>SBSdk</b>	9.0	0	0	0
Telkwa	<b>ESSFmc</b>	50.5	3.4	6.7	

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The FSP expectations letter indicated under the Stand-Level Biodiversity section that the density of large snags and large diameter trees is lower than what is naturally expected both in terms of volume and density. In this respect, Wetinkwa included in their FSP a list of WTRA attributes to help define areas that should be placed in WTRAs. One or more of these attributes will need to be form a WTRA, which should help in the retention of snags and larger diameter trees.

503 **5.1.7 Sensitive Areas**

504 A draft Sensitive Area Order has been written to protect rare vegetation in the northern portion of  
505 the Glacier Gulch/Toboggan Creek fan. The purpose of the draft sensitive area is to maintain  
506 hydrogeomorphic processes on the fan, and the mosaic of plant communities that are a product of  
507 these processes. To date, Wetzin’kwa has not harvested in this area nor does it have plans to  
508 harvest or construct road within the fan.  
509

510 **5.2 Objectives set by Government For Wildlife**

511 **5.2.1 Activities Related to Wildlife Species**

512 **5.2.1.1 Mountain Goat**  
513

514 Ungulate Winter Range Order #6-007 Bulkley Mountain Goats –Skeena Stikine Natural  
515 Resource District came into effect on September 3, 2019. The government is in the process of  
516 removing the mountain goat section from the Bulkley LRMP. Harvesting within the  
517 mountain goat order will follow the new GAR order and therefore no results and strategies are  
518 proposed for mountain goat in this FSP.

519 **5.2.1.2 Moose**  
520

521 WCFC has proposed no significant changes in this FSP to the results and strategies currently  
522 being followed under the direction of the landscape unit plans. In regards to retaining woody  
523 forage species, the special circumstances under division 7.4, clauses (c) and (d) permit the  
524 retention of aspen, cottonwood, birch and brush species adjacent to riparian features during  
525 silviculture treatments.  
526

527 An open road density of 0.6 km/km<sup>2</sup> was suggested as a road density threshold within mapped  
528 moose winter range (CFLB) as an result/strategy for ensuring security cover. Although the  
529 WCFC is not opposed to such an idea on an open road density for moose security cover, we  
530 would be in non-compliance to begin with. The existing roads within the mapped moose habitat  
531 are some of the main roads through the community forest and beyond (ie portions of Wood  
532 Creek Road, 703 Road, McDonell Lake FSR and McDonell South FSR, 715 Road and 714  
533 Road are within mapped Moose Winter Range). Within the community forest tenure area, the  
534 total area of the mapped moose habitat is roughly 19.8 km<sup>2</sup> and the existing road within the  
535 mapped moose habitat is roughly 14.6 km. This gives us an open-road density of approximately  
536 0.736 km/km<sup>2</sup>. All roads WCFC has built since its' inception within the moose habitat have  
537 been either winter roads, or have been deactivated or will be de-activated shortly. WCFC has  
538 stated in their FSP that all roads will be deactivated within a cutblock not required for future  
539 timber development once the block is planted.

540 **5.2.1.3 Deer**

541  
542 WCFC has proposed no significant changes in this FSP to the results and strategies currently  
543 being followed under the direction of the landscape unit plans. In regards to retaining woody  
544 forage species the special circumstances under division 7.4 clauses (c) and (d) permit the  
545 retention of aspen, cottonwood, birch and brush species adjacent to riparian features during  
546 silviculture treatments.  
547

548 Where WCFC proposes harvesting in mapped deer habitat that is adjacent to steep south facing  
549 slopes, the areas adjacent to these slopes will be targeted for wildlife tree retention areas. The  
550 intent of these wildlife retention areas is to provide mature cover adjacent to the steep south  
551 facing slopes. Steep slopes are intended to be areas with a sustained slope of greater than 60%  
552 and longer than 30 meters in slope distance.

553 ***5.3 Objectives set by Government For Fish Habitat and Water Quality***

554 **5.3.1.3 Retention in RMZ's**

555  
556 In general, in the last 10 years, Wetzin'kwa has left 5 m or greater unharvested buffers along  
557 small streams. This allowed Wetzin'kwa to meet or exceed their FSP stream retention  
558 requirements at that time.

559  
560 The FSP expectations letter indicated that new FSP are expected to better reflect retention  
561 levels characteristics of what the healthy unmanaged plant community would be normally be  
562 within the first 10 meters for small streams (S4 and S6).

563  
564 For riparian features with a reserve zone, the provision in the FSP is to retain merchantable  
565 timber in the riparian management zone. In most cases, it will be the additional area  
566 equivalent to the basal area to be retained in the RMZ. In circumstances, such as forest  
567 health issues or blowdown within the riparian management zone, the percentage of basal  
568 area retained may be used to calculate retention within the Riparian Management Zone. If  
569 trees to be retained within the RMZ are assessed as a high wind throw hazard or is a  
570 potential safety hazard, the tree maybe stubbed at >3 m in height and still contribute to  
571 retention within the RMZ.

572  
573 For stream features that do not have a reserve zone, the FSP describes the type and amount of  
574 retention within 10 meters of the stream edge. The provision requires that care is taken during  
575 harvesting operations to retain 50% of the basal area of the merchantable timber within 10

576 meters, as well as retain as much non-merchantable vegetation as possible. Preference will be  
577 given to retaining trees that contribute significantly to stream bank or channel stability, such  
578 as streams rooted directly in the stream bank. If the retained tree is assessed as having a  
579 high wind throw hazard or as a potential safety hazard, the tree may be stubbed at >3 m in  
580 height and still contribute to retention within the RMZ. Within the 10 meters of the stream  
581 edge, a falling away strategy will also be implemented to reduce the fine material ending up in  
582 the stream bed.

583  
584 Retaining undisturbed herbaceous and woody vegetation, non-merchantable and merchantable  
585 trees adjacent to streams without reserve zones as part of the result or strategy is consistent  
586 with the following objectives (from FPPR section 52(2) and section 8):

- 587     ▪ **stream bank and channel stability**: retaining vegetation will reduce  
588         surface erosion and live roots will stabilize the bank and channel;
- 589     ▪ **fish habitat**: the vegetation provides shade for temperature control as well as leaf  
590         and insect fall for food;
- 591     ▪ **water quality**: the vegetation filters sediment;
- 592     ▪ **wildlife habitat**: the vegetation provides hiding and forage cover, and  
593
- 594     ▪ **biodiversity**: the vegetation provides vertical structure and a diversity of plants.  
595  
596  
597  
598

### 599 **5.3.2 Objectives set by Government For Fish Habitat in Fisheries Sensitive** 600 **Watersheds**

601 This subparagraph of the FSP is related to the Fisheries Sensitive Watershed Order for the  
602 Skeena Region which came into effect on December 28, 2005. The results and strategies  
603 address forest management activities in the designated Fisheries Sensitive Watersheds. In  
604 particular how they relate to conserving natural hydrological conditions, conserving quality  
605 and quantity and timing of water flow, and preventing cumulative hydrological effects that  
606 would have a negative impact on fish and fish habitat.

607 This objective is managed via site specific results and strategies to protect fish passage, stream  
608 bank and channel stability, and to prevent adverse material from entering a stream when  
609 operations are occurring during harvesting and road building activities. These site level results  
610 and strategies are outlined in subparagraph 5.3.1.2, of the FSP. In addition sections 55 (1) (2),  
611 56 (1) to (3), and 57 of the FPPR outline specific results that must be achieved in regards to  
612 stream crossings, fish passage, and protection of fish and fish habitat. In order to meet these  
613 results WCFC will follow the Skeena Region In-stream Work Windows and Measures May  
614 2005.  
615  
616  
617

618 Fisheries sensitive watersheds must also be managed to ensure forest management does not  
619 have cumulative hydrological effects resulting in negative impacts on fish and fish habitat.  
620 Toboggan Creek is the only fisheries sensitive watershed within WCFC licence area. In  
621 addition to the targets set as part of the watershed assessments other management objectives  
622 such as Core ecosystems, landscape riparian corridor, a preservation VQO polygon will help  
623 to contribute to the overall management of fisheries sensitive watersheds. To date, Wetzin'kwa  
624 Community Forest Corporation has not harvested within the Toboggan Creek fisheries  
625 sensitive watershed.

### 626 **5.3.3 Objectives set by Government for Water in Community Watersheds**

627 No community watersheds are located within WCFC licence area at the time of submission.  
628 Kathlyn Creek area residents, who use Kathlyn Creek as a domestic water source, have  
629

630 indicated that they have submitted to the Ministry of Environment a community watershed  
631 application. In anticipation of a successful application, the Kathlyn Creek Area residents have  
632 asked WCFC to incorporate results and strategies regarding community watersheds into the  
633 FSP. In addition to this, results and strategies for watersheds with licenced waterworks have  
634 been added to the FSP to help ensure the rights of water licence holders are protected in  
635 watersheds with a licenced waterworks.

636  
637 Several letters from the FSP review and comment period were received by the community  
638 forest. In general the comments were positive in regard to Wetzin'kwa recognizing the  
639 proposed Kathlyn Creek community watershed. There is concern in regards to the cumulative  
640 effects of road construction and timber harvesting, mineral exploration in the past and potential  
641 road construction and timber harvesting in the future. Wetzin'kwa anticipates if the  
642 community watershed gets approved the watershed will be subject to some thresholds/targets  
643 for road construction or timber harvesting. If Wetzin'kwa plans to harvest in the watershed  
644 without any indicated targets and thresholds in place, Wetzin'kwa will meet with the Kathlyn  
645 Creek Watershed Group to come up with targets and thresholds before harvesting can take  
646 place. Wetzin'kwa only plans to harvest in that area if forest health issues (i.e., spruce beetles)  
647 arise or wildfire spreads through. The upper portion of the watershed contains steep unstable  
648 or potential steep slopes, and in conjunction with the visual quality area of retention in the area,  
649 will limit harvesting for most of the area.

650  
651 Also a statement regarding pesticide and herbicide use has been included. WCFC will not use  
652 pesticides or herbicides to treat brush within the community forest.

653  
654 In preparing this FSP, WCFC reviewed the location of existing points of diversion (POD's)  
655 for water licences in the community forest using BC Water Resource Atlas. Presently, three  
656 POD's are located within the Community Forest Licence, in the northeast corner of the licence  
657 area. WCFC will continue to rely on the BC Water Resource Atlas to locate and track all POD's  
658 in the community forest licence area to ensure in the future that operations do not occur within  
659 100m upslope of a licenced waterworks.

#### 660 **5.3.4 Objectives for Fish Habitat**

661  
662 Relative to the Objective for Fish Habitat – WCFC's result or strategy incorporates a  
663 management strategy around "wilderness lakes" that have been designated as such by the  
664 District Manager. To date WCFC is aware of a listing of candidate wilderness lakes; however,  
665 we have not been informed of any formal wilderness lake designations by the District Manager.  
666 The current listing of proposed wilderness lakes in WCFC's proposed FDU, based on the draft  
667 wilderness lakes proposal dated July 2002, is as follows:

- 668  
669 • Silvern (north)
- 670  
671 • Silvern (south)

672  
673 (Both of these lakes are located within Silvern Lakes RMZ-(Special Management Zone 1),  
674 which does not allow for timber harvesting, except for mineral development.

675  
676 Until there is an official designation of wilderness lakes in the Bulkley TSA, WCFC will follow  
677 the strategies listed under subparagraph 5.3.4.2 when operations occur in the area of the lakes  
678 listed above.

#### 679 **5.4 Enhanced Timber Development Areas**

680  
681 WCFC will direct harvest activities to areas within the FDU that will benefit long term timber  
682 supply and productivity. As indicated in the FSP strategy, mature and over mature stands will

683 be targeted, as will stands that are at risk due to forest health factors. In the case of forest health,  
684 we will endeavor, where practical and economical, to salvage timber values prior to those  
685 values deteriorating significantly.

686  
687 In Part 7 of the FSP the stocking standards are clarified for reforestation within the community  
688 forest. It should be noted that Wetzinkwa tries to use class A seed throughout the community  
689 forest and not just in the enhanced timber development areas.  
690

## 691 ***5.5 Objectives for Outdoor Recreation***

692  
693 WCFC has implemented a Resource User Group (RUG) with various recreational user  
694 groups in the Community Forest. This group is open for the public to be involved within  
695 the community forest. Adjacent landowners and recreational users with tenures in the  
696 community forest are the main groups that attend these meetings. The group meets  
697 approximately once a year. If one or more groups have concerns regarding harvesting,  
698 Wetzin'kwa has also met and will continue to meet with individual groups to address  
699 concerns they have been brought to our attention.  
700

701 Since the last FSP approved, several FRPA section 56 recreation sites and trails have been  
702 developed by various local recreation groups within the community forest tenure area. The  
703 following recreation site and trails have been developed;

- 704
- 705 1.) Community Forest Trails – Includes cross country ski trails of Bulkley Valley Cross  
706 Country Ski Club and hiking trails of the Bulkley Valley Backpackers Club.
  - 707 2.) Piper Down Recreation Site, the Bluff Recreation Site and Ptarmigan Recreation  
708 Trails (all are partially located within the community forest) are operated by the  
709 Smithers Mountain Bike Association.

710  
711 Wetzin'kwa Community Forest Corporation has developed a Memorandum of  
712 Understanding (MoU) with the Bulkley Valley Cross-country Ski Club and Smithers  
713 Mountain Bike Association which will guide Wetzin'kwa's forest management within their  
714 recreation tenure area. These MoU are included in this document under the Appendixes.  
715

716 When the Wetzinkwa Community Forest began operations many of the established trails did  
717 not have any section 56 designations. At the time, the main concern by the ski club and  
718 Smithers Community Forest Society was that the trails could be harvested on and adjacent to  
719 trails with no legal protection. Therefore the MOU were established as bridging the gap until  
720 the trails have a legal section 56 designation. Wetzinkwa has and will continue to meet the  
721 various clubs when harvesting and road construction may affect their trails. Wetzinkwa will  
722 continue to work with Rec Sites and Trails BC and ensure that section 16 authorizations  
723 under Forest Recreation regulation are obtained for road construction and timber harvesting  
724 in the vicinity of recreation trails and sites.

### 725 **5.5.1 Recreation Opportunities**

726  
727 Within WCFC's proposed FDU there are 2 designated recreation sites within which WCFC  
728 will not conduct any harvesting unless directed to do so by the District Manager.  
729

- 730 • Dennis Lake
- 731
- 732 • Twin Falls (Glacier Gulch)

733



- 734           • The Bluff Recreation Site

735

736 Within WCFC’s proposed FDU there are 3 designated recreation sites which are maintained by  
737 recreation site tenures:

- 738       • Piper Down – Smithers Mountain Bike Association. Another recreation site is being  
739       developed by the Smithers Mountain Bike Association and will added to the list of  
740       recreation sites.
- 741       • Smithers Community Forest Trails – Bulkley Valley Cross-Country Ski Club and  
742       Bulkley Valley Backpackers
- 743       • Ptargamin Recreation Trails – maintained by Smithers Mountain Bike Association

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745

746 Within WCFC’s proposed FDU there are 9 established recreational trails to which WCFC  
747 will manage as per the results and strategies in subparagraph 5.5.1.1

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Within WCFC proposed FDU, a “recreation emphasis area” has been delineated which incorporates many of the Northeast Slope Trails and the Bulkley Valley Cross Country Ski Trails (existing and proposed). WCFC will manage this “recreation emphasis area” as per the results and strategies in subparagraph 5.5.1.2 and the Memorandum of Understanding.

## 5.5.2 Recreational Access

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Within WCFC’s proposed FDU there are 4 designated recreation sites and 9 established recreational trail to which WCFC will manage access as per the results and strategies in subparagraph 5.5.2.1

- Silvern Lakes Trail–non FRPA sec 56 trail
- Toboggan Creek Trail–non FRPA sec 56 trail

- 785
- 786       • Twin Falls Trail–non FRPA sec 56 trail
- 787
- 788       • Glacier Gulch Trail –non FRPA sec 56 trail
- 789
- 790       • Ptarmigan Recreation Trails – Smithers Mountain Bike Association
- 791
- 792       • Pine Creek Connector snowmobile Trail – Smithers Snowmobile Association
- 793
- 794       • Passby Creek – Bulkley Valley Backpackers
- 795
- 796       • Hudson Bay Glacier Trail – non FRPA sec. 56 trail
- 797
- 798       • Opal Ridge Trail – non FRPA sec. 56 trail
- 799
- 800       • Duthie West Trail – non FRPA sec 56 trail
- 801
- 802       • Opal Back Door Trail – non FRPA sec 56 trail
- 803
- 804       • Rockpile Trail – non FRPA sec 56 trail

## 805 ***5.6 Visual Quality***

806  
807 Relative to the Objective for Visual Quality – the LRMP contains direction for the management  
808 of visual resources, as do the landscape unit plans; however visual quality has been omitted  
809 from the order entitled “Bulkley LRMP Objectives Set by Government– September 2006”.  
810 WCFC has taken the viewpoints and scenic areas as well as the strategies identified to address  
811 the visual quality objectives from the landscape unit plans and incorporated those as strategies  
812 in our FSP.

813  
814 WCFC will conduct visual impact assessments, which address the strategies listed in the FSP,  
815 where cut blocks greater than 1 ha are proposed in areas with visual quality objectives of  
816 preservation, retention and partial retention. If requested these visual impact assessments will  
817 be made available for government agencies to review.

818  
819 Road location and construction is determined by engineering constraints, topography, critical  
820 control points and safety considerations. Therefore, the opportunity to amend road locations  
821 for visual management purposes is very limited. For this reason roads have not been included  
822 in the results and strategies for visual quality in WCFC’s proposed FSP.

823  
824 For activities within 150 meters of private land, Wetzin’kwa has changed the approach to  
825 harvesting near private property. Wetzin’kwa will engage the land owner early in the planning  
826 process and come up with strategies for timber development and access points adjacent to their  
827 property. This allows the community forest to use various different strategies for different  
828 issues (i.e., forest health and wildfire mitigation) for proposing activity within 150 meters of  
829 private land.

## 830 ***5.7 Objectives set by Government for Cultural Heritage Resources***

831  
832 The objective is to protect and conserve cultural heritage sites, features, and values and to  
833 maintain and enhance a good working relationship with Wet’suwet’en peoples. Maps of known

834 cultural heritage sites are kept confidential from the public by the Office of the Wet'suwet'en  
835 in order to better protect sites from disturbance. Hence these known sites are not shown on the  
836 LRMP and LUP maps. Consequently, harvesting and road development plans will be referred  
837 to the Office of the Wet'suwet'en to ensure known cultural heritage sites and resource values  
838 are identified and protected or conserved from harvesting disturbances, dependent upon their  
839 nature. Due to the chances of finding unknown cultural heritage sites / features when timber  
840 development is underway the following steps will be taken:  
841

- 842 a. Stop any development work or harvesting in the vicinity of where there  
843 are indications of a cultural heritage resource site / feature being found;  
844
- 845 b. GPS and map any heritage resource features; and  
846
- 847 c. Provide a location map and communicate findings to the Office of the  
848 Wet'suwet'en and request their review of the importance of the feature and  
849 advice as to the steps to be taken to protect and conserve the heritage  
850 resource.  
851  
852

## 853 ***5.8 Objectives set by Government for Soils***

854  
855 The Agreement Holder adopts the “default” provisions, sections 35 and 36 of the Forest  
856 Planning and Practices Regulation (FPPR), as the result or strategy.

## 857 ***5.9 Resource Management Zones***

858  
859 Within the context of the LRMP and the LUPs, Resource Management Zones have been  
860 developed for 6 areas within the forest development unit described in the forest stewardship  
861 plan. The following sections describe WCFC intent in managing these Resource Management  
862 Zones for activities carried out under the forest stewardship plan.  
863

### 864 **(a) Glacier Gulch Resource Management Zone**

865  
866 The Glacier Gulch area was recognized in the LRMP process in terms of riparian, fisheries,  
867 biodiversity, visual and recreational values.  
868

- 869 • A large part of the Toboggan Creek watershed, which is a fisheries sensitive  
870 watershed, is located within this resource management zone.  
871
- 872 • VQO designations of either Preservation or Retention also cover the majority of  
873 the area in this resource management zone.  
874
- 875 • Several recreational trails are located within this RMZ.  
876

877 These designations and their associated objectives are managed within the forest stewardship  
878 plan.  
879

### 880 **(b) Silvern Lakes Resource Management Zone**

881  
882 The Silvern Lakes Resource Management Zone was recognized in the LRMP process in terms  
883 of its backcountry recreational opportunities and visual values. In this zone, timber harvesting  
884 will only take place for approved mineral and energy exploration and development.  
885

### 886 **(c) Hudson Bay Resource Management Zone**

887  
888 The Hudson Bay Mountain Resource Management Zone was recognized in the LRMP process  
889 in terms of its' recreational opportunities and visual values.  
890

- 891
- VQO designation of Modification covers the majority of the area within the WCFC licence area.
- 892
- 893
- Within the Community Forest tenure area of the Hudson Bay Resource Management Zone approximately 75% of the area is in alpine area. Within the timbered area, approximately 75% of the area is within mapped mountain goat habitat. Of the remaining timber area, approximately 75% of the area is within a CORE ecosystem, leaving approximately 20 hectares, not constrained by non-timber values. The low potential harvest level should provide significant opportunity for developing recreation opportunities without having timber harvesting recreation conflicts develop.
- 894
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- 902

903 These designations and their associated objective are managed within the forest stewardship plan.

904

905

906 **(d) Community Forest Resource Management Zone**

907

908 The Community Forest Resource Management Zone was recognized in the LRMP process in terms of water quality, biodiversity, recreational and educational opportunities and visual values.

- 909
- VQO designation of Retention covers this area within the WCFC licence area.
  - A “Recreation Emphasis Area” covers the existing cross-country ski trail network area, and the existing hiking trail networks located within this RMZ. The area also includes proposed extension of the cross-country ski trails. Memorandum of Understanding (MOU) with the Bulkley Valley Cross-Country Ski Club, provide guiding principles as how to development will proceed within the “Recreation Emphasis Area”.
- 910
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920 These designations and their associate objectives are managed within the forest stewardship plan.

921

922

923 **(e) Copper River Resource Management Zone**

924

925 The Copper River area was recognized in the LRMP process in terms of riparian, fisheries, biodiversity, visual and recreational values.

- 926
- 927
- VQO designation of Modification covers the area surrounding Dennis Lake.
  - The entire length of the Copper River RMZ within the Community Forest tenure area is in either a CORE ecosystem or landscape corridor. Reference to the CORE ecosystem and Landscape Corridors reflect the reduced levels of harvest that can occur in the area. It is anticipated that in addition to the FSP identified recreation provisions that the reduced harvest levels assisted with the CORE ecosystems and Landscape Corridors will merely reduce the possibility of harvest/recreation conflict both spatially and temporary.
  - Recreational opportunities will be maintained in this area by having a reduced harvest levels imposed by harvesting restrictions within the CORE ecosystem and Landscape Corridors which cover the entire RMZ.
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942 These designations and the associated objectives are managed within the forest stewardship plan.

943

944

## 6.0 MEASURES

Range use within the Bulkley TSA has been relatively limited in scope as compared to other portions of the interior. WCFC recognizes the significance of range use and are committed to working alongside the range tenure holder. The following section outlines management efforts that will be undertaken to accommodate range use. WCFC also has a strong expectation that range users will recognize forest use and particularly reforestation and riparian values when grazing cattle on forest land.

### ***6.1 Measures for Preventing the Introduction or Spread of Invasive Plants***

Historically, the management of invasive plants has not been a high priority in the Bulkley TSA. As range use expands and low elevation harvest associated with the mountain pine beetle infestation escalates, WCFC recognizes the need for improved management of invasive plants.

WCFC intends, as outlined in the FSP strategy, to gain a better understanding of the plants that are a concern within the FDU. We plan to arrange a session for pertinent staff to meet with local range experts to aid in the identification of plants and also to gain an understanding of the present areas of concern within the district. Through better knowledge of present problem areas, better identification knowledge and an understanding of spread factors, WCFC will be better able to prioritize areas for its grass seeding program. Where WCFC staff or consultants find invasive plants in our operating areas, these will be reported to the Northwest Invasive Plant Council annually by December 31.

Where invasive plants are present and further spread is a risk, WCFC intends to carry out a seeding program on areas of exposed soil greater than 0.1 ha in size, in order to re-vegetate the site. This seeding will occur within two growing seasons of the activity being initiated. For example if a road is built in July and August of 2007 it would need to be grass seeded by September of 2008 as the summer of 2007 would count as a growing season. Typically, a standard grass seed mix has been utilized; with occasional usage of specific seed mixes to aid in wildlife management all seed used will meet the Canada Common Number 1 requirements as per the *Canada Seeds Act*.

Wetzinkwa uses the Canada No. 1 Forage Mixture to seed disturbed areas. The mixture consists of the following:

- Annual Ryegrass 35%
- Fescue 35%
- Red Fescue 20%
- Timothy 10%

### **6.2 Measures to Mitigate the Loss of Natural Range Barriers**

WCFC will communicate with range tenure holders on broad level development plan issues and to a lesser extent block specific issues. A map of range tenures will be maintained in our office and range tenure holders will be notified of impending harvest activities.

Where new range tenures are being proposed or existing tenures are being modified WCFC should be notified and asked for comments regarding these changes. Where range tenures exist, WCFC would like to receive information on where natural range barriers are considered to exist. Our assumption would be that many of the range tenure natural barriers are overlapping the boundary of the tenures or are a close approximation of the tenure boundary. Where natural range barriers are identified and WCFC activities compromise the intent or usefulness of the

994 barrier, we will utilize our FSP strategy of trying to come to a mutually agreeable arrangement  
995 with the range tenure holder.

## 996 **7.0 STOCKING STANDARDS**

997 As stated in section 2.3 of our Forest Stewardship Plan (FSP) Stocking Standards apply only to:

- 998
- 999 • Reforestation Obligations within the FDU associated with Community Forest  
1000 License K2P; and to
- 1001
- 1002 • Site Plans approved after FSP Effective Date.
- 1003

1004 These Stocking Standards do not apply to:

- 1005
- 1006 • Other Forest Licenses, or to
- 1007
- 1008 • Silviculture Reforestation Obligations defined by Silviculture Prescriptions.
- 1009

1010 To maintain our ability to take full advantage of favorable microsites, WCFC has opted to  
1011 continue using provisions for 1.0 m Minimum Inter-Tree Distance (MITD) for specific wet  
1012 series (see appended stocking standards) The MITD used here conform to those used in the  
1013 current WCFC FSP as well as those developed and used by PIR.

### 1014 **7.1 Definitions:**

1015  
1016 NSR, “M” Value, and Countable Conifers, have also been added to provide clarity and  
1017 consistency to ensure specific and measurable standards for assessing FSP Stocking Standards in  
1018 the future.

~~1019~~  
1021 WCFC FSP Appendix “A” Even-Aged Stocking Standards

1022  
1023 Defines the Even-Aged Stocking Standards for each Site Series within each Biogeoclimatic  
1024 Ecological Classification (BEC) Sub-zone WCFC operates in.

1025  
1026 These Even-Aged Stocking Standards will apply to all Standards Units where the retained basal  
1027 area of overstory (Layer 1) trees is less than or equal to  $5\text{m}^2 / \text{ha}$ . This will most often be the  
1028 case.

1029  
1030 The footnotes provide clarity as to where different Standards may be applied for site specific  
1031 circumstances.

### 1032 **7.2 Special Circumstances:**

1033  
1034 Define situations where deviations to the Stocking Standards apply.

### 1035 **7.3 Appendix “B” Partial Cutting Stocking Standards**

1036  
1037 WCFC will continue the use of partial cutting stocking standards from their previous FSP.  
1038 These partial cutting stocking standards came from a previous West Fraser – PIR’s FSP.  
1039 The rationale supporting the approval of West Fraser-PIR’s partial cutting stocking  
1040 standards is as follows.

1041  
1042 *Defines the Partial Cutting Stocking Standards for Standards Units where the retained basal*  
1043 *area of overstory (Layer 1) trees is greater than  $5\text{m}^2 / \text{ha}$ . This Standard has been developed*  
1044 *in consultation with Pat Martin of the Forest Practices Branch. Two field reviews to introduce*  
1045 *the Deviation from Potential (DFP) methods occurred with Pat Martin (Bulkley and Lakes*  
1046 *TSAs). Tyhee Forestry Consultants also conducted a field test of the procedures. The DFP*

1047 *productivity to define acceptable levels of stocking is based on the Universal Growth Law and*  
1048 *Langsaeter’s theory for determining B-level Stocking. The methodology has been tested both*  
1049 *in the field and by the Inventory Branch, using TASS\_TIPSY runs. The resulting Partial Cutting*  
1050 *Stocking Standards has been passed by Pat Martin for his review and comment. PIR intends*  
1051 *to use this methodology as a replacement for Multi-Storey Surveys, as we believe that the DFP*  
1052 *method provides a better reflection of reality on the ground.*

1053  
1054 *Trees are retained on-site to meet a multitude of values including: future crop trees,*  
1055 *maintaining legacies of biological diversity, recruitment of snags and coarse woody debris,*  
1056 *riparian protection, visual quality, wildlife habitat, and hydrologic recovery. These values may*  
1057 *be met by both acceptable crop trees, as well as those that do not the acceptability criteria.*  
1058

1059 *WCFC understands that any tree retained on-site must meet Forest Health and Damage*  
1060 *criteria, as well as other stocking standards, in order to be classified as a “crop tree”. In order*  
1061 *to ensure this happens our FSP specifies these Silviculture Forest Health and Damage*  
1062 *acceptability requirements.*  
1063

- 1064 • *The FSP Stocking Standards Special Circumstances, Section,7.4 (i) (i) references*  
1065 *the Prince Rupert Free Growing Guidebook, Appendix 10, which includes Table*  
1066 *A10-2, providing Acceptability and Damage Criteria for layers 1 and 2.*  
1067
- 1068 • *Table A10-2 also links to Table 4 of the Tree wounding and Decay Guidebook.*  
1069
- 1070 • *Any damage acceptability criteria for Balsam will be based on the Prince Rupert,*  
1071 *Balsam Acceptability Criteria (BAC), as per Section 7.4 (i) (ii).*  
1072
- 1073 • *When assessing Balsam, the BAC will take precedence over Appendix 10, Table*  
1074 *A10-2 of the Prince Rupert Free Growing Guidebook.*  
1075

1076 *The MOFR has expressed concern over the possibility that an excessive amount of pulp*  
1077 *trees (Layer 1) could be left behind taking up growing space and impacting site occupancy.*  
1078 *WCFC will ensure adequate stocking is met with acceptable stems of Layers 1, 2, 3, and 4,*  
1079 *as per the proposed Partial Cutting Standards. The term acceptable will be based on*  
1080 *whether a tree meets the criteria defined in the above documents.*

1081  
1082  
1083  
1084

1085

## 1086 **9.0 Climate Change Adaptation**

### 1087 **9.1.1 Forest Health Issues**

1088

1089 Due to the relatively young age of the K2P tenure, there are few Wetzin'kwa plantations  
1090 that have achieved free growing status and therefore inferences related to forest health,  
1091 outside of the immediate term, must be drawn from the health and vigor of other  
1092 plantations within the tenure, data from the Timber Supply Area as a whole and  
1093 presumptions related to potential climate change trajectories.

~~1094~~

1095 A review of the 2015 mapping of the rust and 2017 mapping of the dothistroma incidence  
1096 level mapping indicate that, though there are two plantations exhibiting high levels of hard  
1097 pine stem rusts, the area falling within the K2P tenure appears to have low levels of hard  
1098 pine stem rusts relative incidence levels exhibited in the adjacent Burns Lake and Morice  
~~1099~~ TSAs.

1100

1101  
1102 The current rust incidence levels notwithstanding, Wetzin'kwa will implement a rust  
1103 monitoring protocol to gauge any changes to these incidence levels over time.

~~1104~~

1105 The rust incidence protocol will include;

1106

- 1107 • an annual review of any rust incidence mapping,
- ~~1108~~
- 1110 • A walk-through will be conducted in established plantations adjacent to  
1111 openings planned for silviculture survey to assess rust incidence levels.
- 1112
- 1113 • Regeneration and Free-growing silviculture surveys of Wetzin'kwa openings will  
1114 include a summary note specific to rust incidence.
- 1115

1116 The information/data gathered from the rust incidence protocol will be reviewed biennially  
1117 to determine if any changes to initial planting density are warranted. As a result of forest  
1118 health agents, mostly notably dothistroma and hard pine stem rusts, Skeena Stikine  
1119 District personnel have voiced that a number of stocking parameters should be considered,  
1120 namely

~~1121~~

- 1122 • species distribution
- ~~1123~~
- 1124 • planting densities
- 1125
- 1126 • free-growing height and age
- 1127

#### 1128 **9.1.1.1 Species**

~~1129~~

1130 Since Wetzin'kwa's establishment, ten spring/summer plants were undertaken resulting in a  
1131 total of the planting of approximately 2.68 million seedlings. The majority of the area  
1132 planted fell within the SBSmc2 BEC subzone with a lesser amount within the SBSdk and  
1133 ESSFmc.

1134

1135 Table 2 shows the distribution of species planted by year. You will note that, combined for  
1136 all years, the average distribution is 61%, 35%, 1% and 3% for spruce, pine, balsam, and  
1137 western larch respectively.

1138

1139



1140  
1141

**Table 7 – Species Distribution of Planted Stock**

<i>Year</i>	<i>Species</i>					<i>Pine %</i>
	<i>Sx</i>	<i>Pli</i>	<i>Bl</i>	<i>Lw</i>	<i>Total</i>	
2009	72,225	48,000			120,225	<b>40%</b>
2010	52,710	73,545			126,255	<b>58%</b>
2011	175,260	96,800	27,360		299,420	<b>32%</b>
2012	211,050	49,860			260,910	<b>19%</b>
2013	405,045	210,000			615,045	<b>34%</b>
2014	139,860	69,720		22,140	231,720	<b>30%</b>
2015	139,635	100,380			240,015	<b>42%</b>
2016	194,868	97,434		32,478	337,350	<b>29%</b>
2017	215,528	107,442		29,520	352,490	<b>30%</b>
2018	34,752	81,088			115,840	<b>70%</b>
2019						
2020	277,560	119,160			396,720	<b>30%</b>
2021		77,152			77,152	<b>100%</b>
2022	85,700	47,000			132,700	<b>35%</b>
2023	94,900	35,300			130,200	<b>27%</b>
<b>Total</b>	<b>2,099,093</b>	<b>1,212,881</b>	<b>27,360</b>	<b>84,138</b>	<b>3,423,472</b>	<b>35%</b>
<b>Distribution</b>	<b>61%</b>	<b>35%</b>	<b>1%</b>	<b>2%</b>	<b>100%</b>	

1142

1143 In general Wetzin’kwa supports including climate change adaptation in the development of  
 1144 longer-term reforestation strategies but we are convinced that a prudent and measured  
 1145 approach to their application is critical. In particular, it is our contention that the  
 1146 maintenance of a robust mix of species is the most important safeguard against climate  
 1147 change and its impact on forest heath and ultimately on timber production.

1148

1149 Further, the K2P tenure is located at the western and upper elevational margins of the  
 1150 SBSdk in a highly transitional area with ESSFwv, ESSFmc, ICHmc1 SBSmc2 and SBSdk  
 1151 subzones all occurring within a span of 25km along the valley bottom (about 2.5 km  
 1152 perpendicular to the contour).  
 1153

1154 The combined factors of climate change and the transitional nature of the community forest  
 1155 suggest that we should be maintaining the full spectrum of traditional species in our  
 1156 stocking standards as well as including Douglas-fir and western larch to the extent provided  
 1157 for in the *Chief Forester Standards for Seed Use*.  
 1158

1159

1160 The following bullets outline Wetzin'kwa's species selection strategies;  
1161

- 1162 • Spruce (Sx): will continue to predominate the species distribution for plantation  
1163 stock. It performs well across a wide range of site conditions and, to date,  
1164 exhibits lower overall impact from damaging forest health agents than pine. Due  
1165 to concerns about plantation diversity and the potential for forest health  
1166 epidemics, it is our intent to keep the distribution to less than 70%.  
1167
- 1168 • Pine (Pli) will continue play a significant position in the distribution of  
1169 plantation stock. However due to know forest health impacts it is our intention to  
1170 keep its distribution to less than 40% (based on a five year rolling average).  
1171
- 1172 • Balsam (Bl) exhibits good levels of natural ingress after harvest and therefore is  
1173 not required to form a significant component of our nursery growing program. In  
1174 addition, for the Sub-Boreal Spruce BEC subzones, climate change trajectories  
1175 seem to indicate a transition from the SBSmc2 where Bl is preferred, to SBSdk  
1176 where it is not. The predominant use of Bl stock will be in ESSF subzones or in  
1177 SBS subzones where, either Pli or Sx could not be planted  
1178
- 1179 • Western Larch (Lw) does not have a long history in the K2P tenure, having  
1180 been planted for the first time in 2014, but its use is expected to increase as we  
1181 see more data indicating acceptable growth performance.  
1182
  - 1183 ○ In SBSmc2 sites, Lw is not considered acceptable but will be used as trial  
1184 species as provided for under the *Chief Forester's Standards for Seed Use*  
1185
  - 1186 ○ In SBSdk sites, Lw distribution will be limited to a maximum 10% in the  
1187 near term. If suitable growth performance is demonstrated, Lw  
1188 distribution is expected to increase.  
1189
- 1190 • Douglas-fir (Fd) acceptability has changed significantly in the SBSdk in the  
1191 updated stocking standards and its use is expected to increase as we see more data  
1192 indicating acceptable growth performance.  
1193
  - 1194 ○ The SBSdk, within the K2P tenure, is at the western and upper elevation  
1195 margins of the subzones distribution and therefore there are concerns  
1196 related to its potential performance. The distribution of Fd will be limited  
1197 to a maximum 10% in the near term. As growth performance is  
1198 demonstrated, Fd distribution is expected to increase.

---

### 9.1.1.2 Density

Current FSP stocking standards are consistent with TSR assumptions at this time. Wetzin'kwa routinely establishes crops at densities exceeding 1400sph and has observed a significant amount of natural ingress at levels aligned with the latest TSR assumptions.

Current stand level establishment practices continue be based on the principle of risk aversion with respect to species composition and density and thus are designed to ensure the long term productivity of the forests development and health. This includes generally higher densities and greater diversity at time of crop establishment to safeguard against potential crop failures and/or poor long-term yields.

### **9.1.1.3 Free Growing Height and Age**

As an area based tenure Wetzin'kwa motivated to having productive forests at all stages through to rotation. Under-producing stands of timber have an immediate impact on long-term timber production and its associated annual allowable harvest levels.

In the short term, Wetzin'kwa is committed to producing free-growing forests within the specified free-growing timing windows. In the mid and long-term Wetzin'kwa is committed to maintaining productive forests through the application of monitoring and treatment protocols that fall outside of the basic silviculture commitments.

## **9.1.2 Stocking Standards**

### **9.1.2.1 Stocking Standards**

As described in the Guidance for assessing FSP stocking standards alignment with addressing immediate and long-term forest health issues (Sutherland 2012), “FSP stocking standards must aim to maintain or enhance an economically valuable supply of commercial timber and be consistent with current TSR and forest Management assumptions”.

To that end Wetzin'kwa will adopt the Reference Guide for FDP Stocking Standards - Updated March 2019 with Climate Based species selection recommendations.

#### **9.1.2.1.1 Stocking Standards Exceptions**

In keeping with Wetzin'kwa's position on species diversity, balsam has been changed from 'acceptable' to 'preferred' for the SBSmc2 01, 05, 06 and 08. This change is consistent with our existing stocking standards as well as Wetzin'kwa's position on species diversity.

## **9.1.3 Stocking Standards for Fire Management Stands**

Wetzin'kwa has proposed stocking standards for WUI-HRV interface as shown on map 1 of Appendix C of the FSP. There are no approved fire management stocking standards developed yet for the SBSmc2 and SBSdk (NDT 3- frequent stand initiating events). Most stocking standards for fire management have been developed in the southern interior of BC in areas which have fire resistant species in a NDT 4 (frequent stand maintaining fires).

In preparing Wetzin'kwa's stocking standards for fire management, the following documents were reviewed and helped to establish our proposed stocking standards:

*Guidance for Stocking Standards for Fire Management – Diane Nicholls and Robert Turner*

*Fire Management Stocking Standards Guidance Document VI February 2016*

*Managing Forest Fuels Special Report Forest Practices Board June 2006*

The proposed fire management stocking standards are there for two purposes:

- 1.) To promote the development of stand structural conditions that provide for reduced risk and enhance protection of values on the landbase such as human life and safety, property, infrastructure and the forest ecosystem.
- 2.) To develop landscape level fuel breaks that provides areas where fire behavior is reduced and provides options for fire suppression that enhance suppression success. Enhanced mitigation and fuel break effectiveness usually results from development of specific stand structural attributes that reduce fire behavior and improve fire suppression effectiveness.

The fire management stocking standards are to apply to areas treated for forest fuel reduction areas within Wetzin'kwa Community Forest Agreement (K2P) area within the Wildfire Urban Interface – High Recreation Value polygon within the SBSmc2 and SBSdk BEC subzone, as shown on map 1.

### **Ecological Suitability**

Ecologically suitable species in the SBSmc2 and SBSdk are lodgepole pine which is moderate fire resistant species, and spruce which is low to moderate fire resistant species. Deciduous tree species such as cottonwood, aspen and birch are also ecological suitable within the SBSmc2 and SBSdk.

Western larch and Douglas fir are also ecological suitable species as part of the climate change stocking standards within the SBSdk.

### **Species Selection**

For the fire management stocking standards in the community forest, spruce and lodgepole pine will be considered as preferred species. In the SBSdk, western larch and douglas fir will also be considered as preferred/acceptable species. Deciduous species such as cottonwood, aspen and birch will be considered as acceptable species.

### **Stand Densities**

For the fire management stocking standards, less dense stands reduce the probability of crown fire spread and provide greater suppression capabilities and may allow crews to safely work in the area. Therefore Wetzin'kwa proposes to reduce the stand density to the following:

**TSS** decrease from 1200 sph to 1000 sph

**MSSpa** decrease from 700 sph to 500 sph

**MSSp** decrease from 600 sph to 500 sph

**Max stem density** decrease from 10,000 sph to 5000 sph for coniferous species.

### **Inter-tree Distance / Inter-crown distance**

With reduced density, the inter-tree distance will increase and it is anticipated that will reduce the probability of crown fire.

### **Tree/Competition Height Ratios**

With introducing cottonwood, aspen and birch as acceptable species in the fire management stocking standards, the height to brush % will not apply to acceptable species.

### **Partial Cut Stocking Standard Considerations**

A form of partial cutting may apply to the areas treated under the fire management stocking standards. It is anticipated that within fire management areas, the majority of the areas will call for the removal of dead pine while retaining as much of the live mature canopy and understory.

### **Forest Succession and In-Growth including understory**

It is anticipated especially in the SBSmc2, that there will likely be a lot of ingress from subalpine fir. At free-growing stands will be evaluated as per max density and will be spaced to below max density.

## ***9.1.4 Other Initiatives Related to Reforestation and Climate Change***

Wetzinkwa Community Forest has been involved with the Bulkley Valley Research Centre's program involving the restoration of endangered whitebark pine. Two different plantings were completed in the community forest.

Wetzinkwa Community Forest Corporation is concerned with global climate change impacts. The management team and board of directors have spent considerable effort in working towards better understanding of Wetzin'kwa's potential impacts on climate change. Wetzinkwa has drafted a document titled "Carbon Goals and Strategies for the Wetzin'kwa Community Forest Corporation". This document is work in progress document and changes are anticipated as new information comes available. A copy of this document is included in Appendix G.

As part of the above initiative, Wetzin'kwa is working to reduce the amount of annual slash-burning taking place. Dead, dry merchantable timber is being shipped to Seaton Forest Products and starting mid-winter 2019, harvest residue material has been shipped

to the pellet plant. There are operational challenges to overcome but it is definitively reducing the amount of slash Wetzin'kwa is burning annually.

## **10.0 Other topics from the Skeena Stikine Resource District Manager FSP Expectations Letter**

### ***10.1 First Nations, Stakeholders and Public Engagement***

Wetzin'kwa Community Forest Corporation is committed to communicating and engaging with the public, stakeholders and First Nations that may be directly affected by Wetzin'kwa's forestry activities. Wetzin'kwa's communication and engagement of the public, stakeholders and First Nations is on an ongoing-basis. Wetzin'kwa's communication and engagement strategies are as follows:

- 1.) Resource User Group meetings. Wetzin'kwa on an annual basis has a meeting with the various recreation user and stakeholder groups within the community forest. It is a meeting where Wetzin'kwa shares their development plans for their forestry activities. At the same time this meeting lets the various user groups and/or stakeholders ask questions regarding operations and share with us and other groups of any plans they are implementing.
- 2.) Wetzin'kwa Community Forest Annual General Meeting. This meeting is on an annual basis open to the general public. The meeting is rotated on an annual basis between the communities of Smithers, Telkwa and Witset. At this meeting, the public has the opportunity to voice any of their concerns.
- 3.) Wetzin'kwa Community Forest Community Grant Program. Every year for the past several years, Wetzin'kwa has held a public display on Main Street in Smithers to award money to the community grant program recipients. This provides opportunity for the public to engage with both management and board of directors of Wetzin'kwa.
- 4.) Wetzin'kwa participates in the Bulkley Web Map Service with all the other major licencees in the Bulkley TSA. It is a web-based portal in which all licencees show their proposed development information, which the public, First nations and stakeholders can view from their computers. Information is updated approximately every six months (June and December).
- 5.) For range tenure holder, guiding tenure holder and trapline tenure holders, Wetzin'kwa Community Forest sent out letters at the beginning of the 60 day Forest Stewardship Plan public review and comment period regarding the proposed Forest Stewardship Plan. During the development stage of the cutting permit, a letter and a map of the proposed layout are sent to the affected tenure holders so they can provide feedback.
- 6.) For recreation tenure holders (BV Cross-Country Ski Club, BV Backpackers, Smithers Mountain Bike Association and Smithers Snowmobile Association), Wetzin'kwa Community Forest sent out letters at the beginning of the 60 day Forest Stewardship Plan public review and comment period regarding the proposed Forest Stewardship Plan. If harvesting is proposed within a recreation

site or along proposed trail, the affected recreation user group will be notified of specific development near their trail or site. Also the local recreation officer of the Recreation Site and Trail BC will be notified as a FRR authorization (section 16) will be required.

- 7.) For landowners adjacent to the community forest, provisions were made in the FSP to engage them in the planning process if we proposed road construction or timber harvesting within 150 meters of their property.
- 8.) For water licence holders, which have their watershed within the community forest, provisions were made in the FSP to notify them 48 hours prior to any road construction and deactivation within the watershed.
- 9.) As part of the FSP information sharing process involving the First Nations, a letter and a copy of the review and comment FSP was sent to the Office of the Westsuwet'en as well as the Witsset First Nation. Provisions were made in the FSP to communicate with the First Nations regarding cultural heritage resources (CHR) found along roads or cutblocks during road and cutblock development as well as if a previously unidentified CHR is identified during forestry activities. As part of the cutting permit submission process, proposed blocks and road as well as CHR evaluation reports are sent to the Office of the Wetsuwet'en.
- 10.) On a continual basis, Wetzin'kwa Community Forest has a website as well as a Facebook page, where both sites allow the public to give us feedback.
- 11.) On a continuous basis, the doors at Wetzin'kwa Community Forest are open at Silvicon Services Inc, 3560 Victoria Drive in which the public can communicate concerns or engage ideas to management.

## **10.2 Northern Goshawk**

At this time, there are is one known goshawk nest within the community forest. If more nesting sites are discovered within the community forest these sites will be brought forward to the Northern Goshawk Team (Frank Doyle and Mike Buirs) as they are in process of developing management guidelines and a co-location process for goshawk territories. Until these management guidelines and co-location process for goshawk territories are in place, WCFC will follow the best management practices of Table 7 of *Scientific Basis for managing Northern Goshawk Breeding Areas in the Interior of BC: Best Management Practices (Forrex Series 29, 2012)* to the extent practicable.

The Northern Goshawk Team is developing management guidelines and a checklist for redesigning Goshawk Territories using a co-location process as well as looking at how co-location might mitigate Timber Harvesting Landbase impacts. Wetzin'kwa is a willing participant in this process and is looking forward to the management guidelines within the two proposed goshawk territories within the community forest.

## ***Appendix A: K2P Management Plan***



***Appendix B: MOU with Bulkley Valley Cross-Country Ski Club***

***Appendix C: MOU with Smithers Mountain Bike Association***

***Appendix D: Referral Distribution List Referral/Letters***

***Appendix E: Letters received from Review and Comment Period***

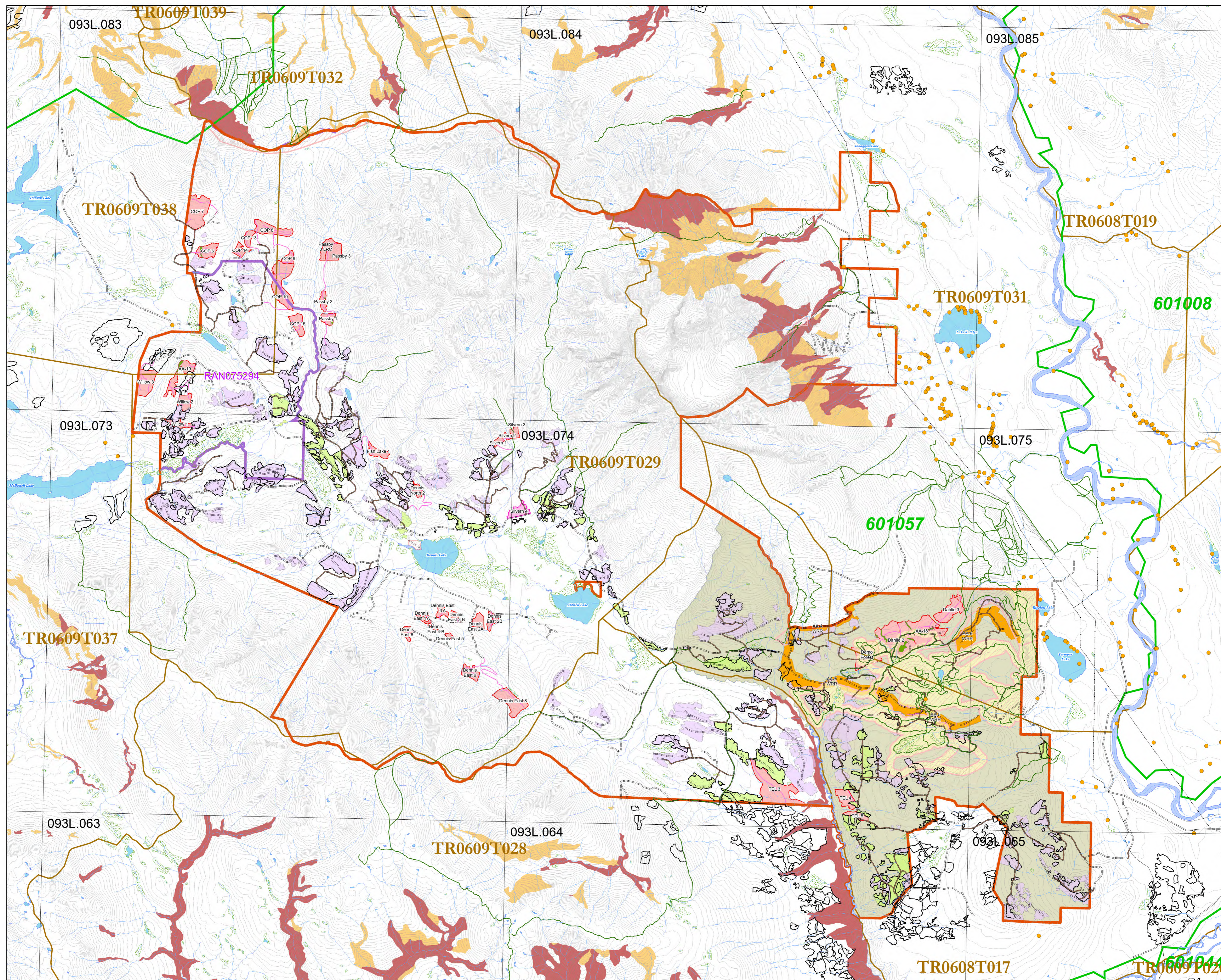
***Appendix F: Responses to Letters received from Review and Comment Period***

***Appendix G: “Carbon Goals and Strategies for the Wetzin’kwa Community Forest Corporation”***

***Appendix H: Wetzin'kwa Migratory Bird Policy (Draft)***

FOREST STEWARDSHIP PLAN

MAP #1  
2024 - 2029

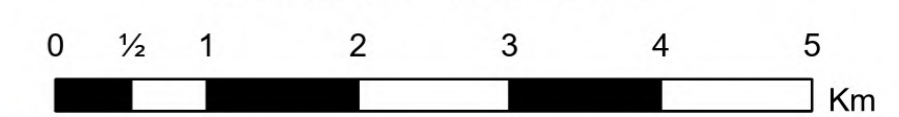


Legend

- Water Rights Licences
- Streams
- R16534 Roads
- Roads
- Proposed Roads
- Pipe and Powerlines
- Railway
- Recreation Trails
- Wetlands
- Lakes
- Rivers
- VRI Age Class 1
- WCF Boundary
- Range Tenure
- Guides and Outfitters - 601057
- Trappers Licences
- Recreation Site Poly
- Recreation Emphasis Area
- Community Watersheds
- WUI- High Recreation Values
- Mapsheet Grid 20K
- Harvested Blocks**
  - Approved Blocks
  - Harvested Blocks
  - Free Growing Blocks
- Proposed Blocks and WRR Treatment**
  - Block
  - Treatment Area
  - Wildfire Risk Reduction
  - WTRA
- Terrain Stability**
  - IV
  - V



Scale: 1:50 000



Contour Interval: 20m

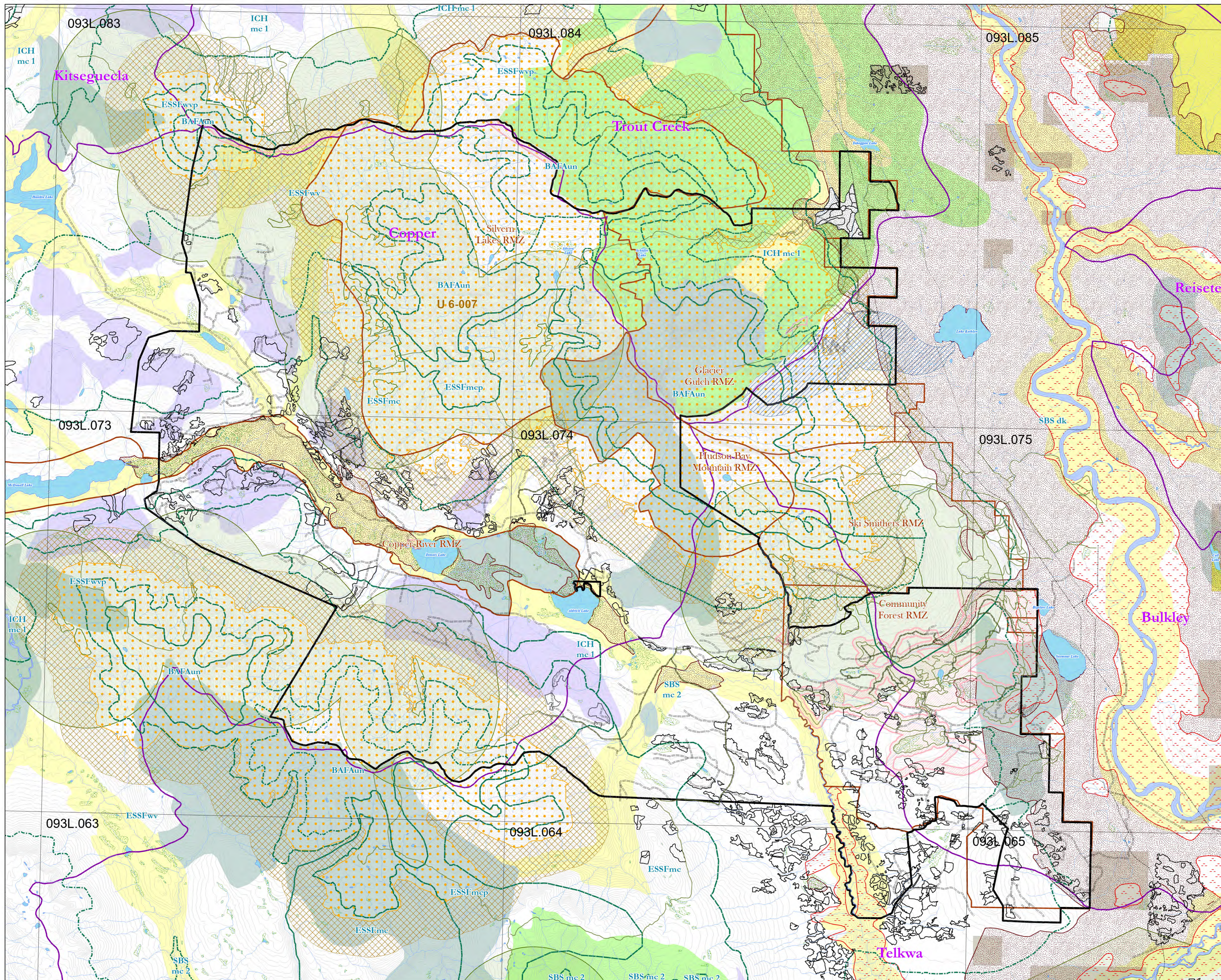
Maps Prepared by:  
Date: April 2020





**FOREST STEWARDSHIP PLAN**

**MAP #2**  
2024 - 2029

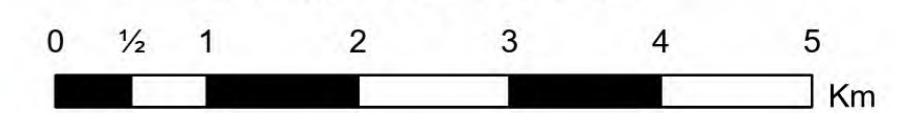


**Legend**

- Streams
- Roads
- Pipe and Powerlines
- Railway
- Recreation Trails
- VRI Age Class 1
- Community Forest Boundary
- BEC Zones
- Resource Management Zones
- Landscape Units
- Toboggan Area
- Wetlands
- Lakes
- Rivers
- Recreation Site
- Kathlyn Ck. Community Watershed Bdy
- Moose
- Moose and Mule Deer
- Mountain Goat Buffer- UWR# U-6-007
- Mountain Goat- UWR# U-6-007
- Parks and Protected Areas
- Agriculture/Wildlife Zones
- Whitebark Pine
- Mapsheet Grid 20K
- Legal Planning Objectives**
- Core Ecosystems
- Enhanced Timber Development Areas
- Landscape Corridors
- Fisheries Sensitive Watersheds



**Scale: 1:50 000**



Contour Interval: 20m

Maps Prepared by:



Date: April 2020

**FOREST STEWARDSHIP PLAN**

**MAP #3**

**2024 - 2029**

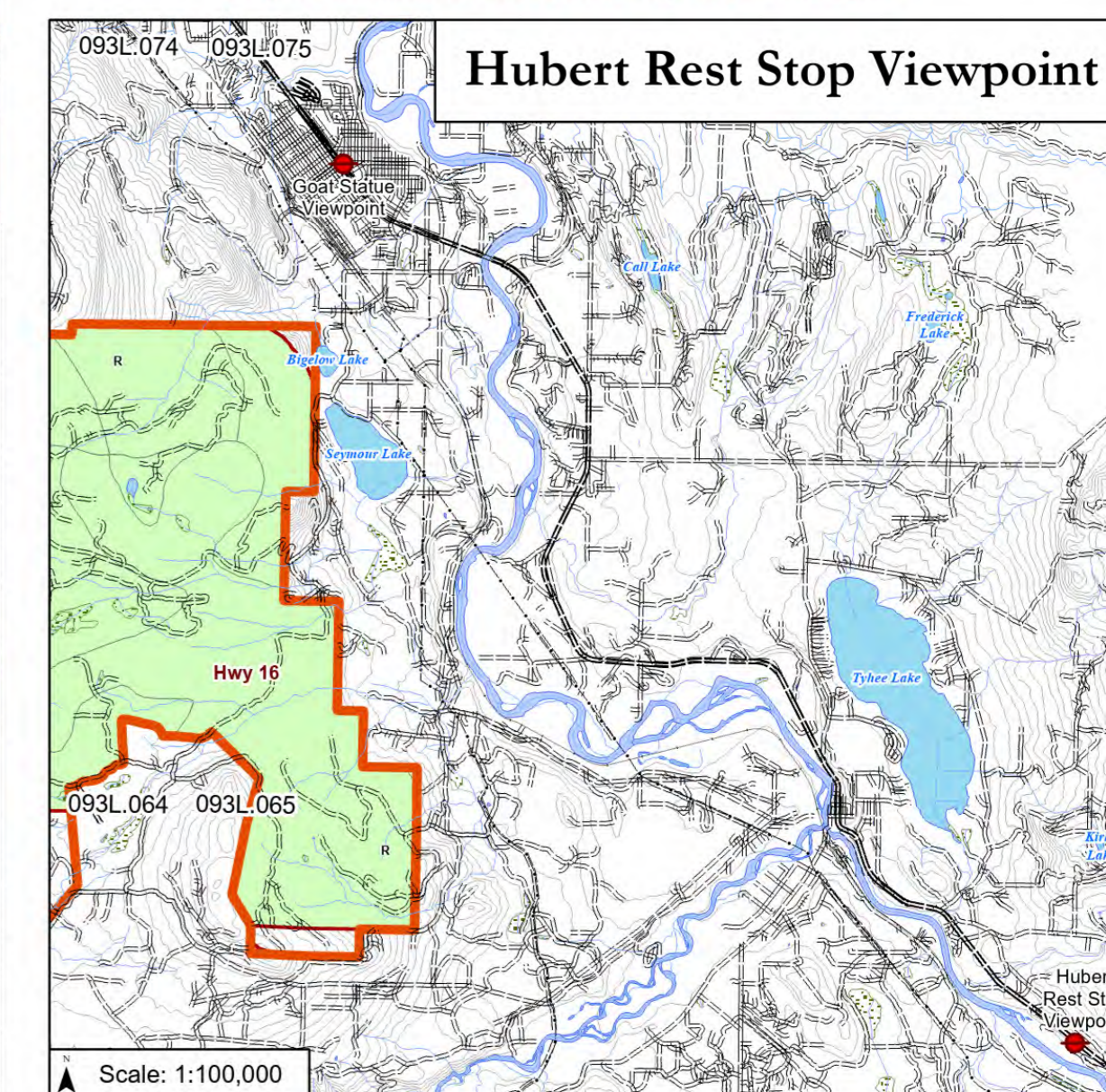
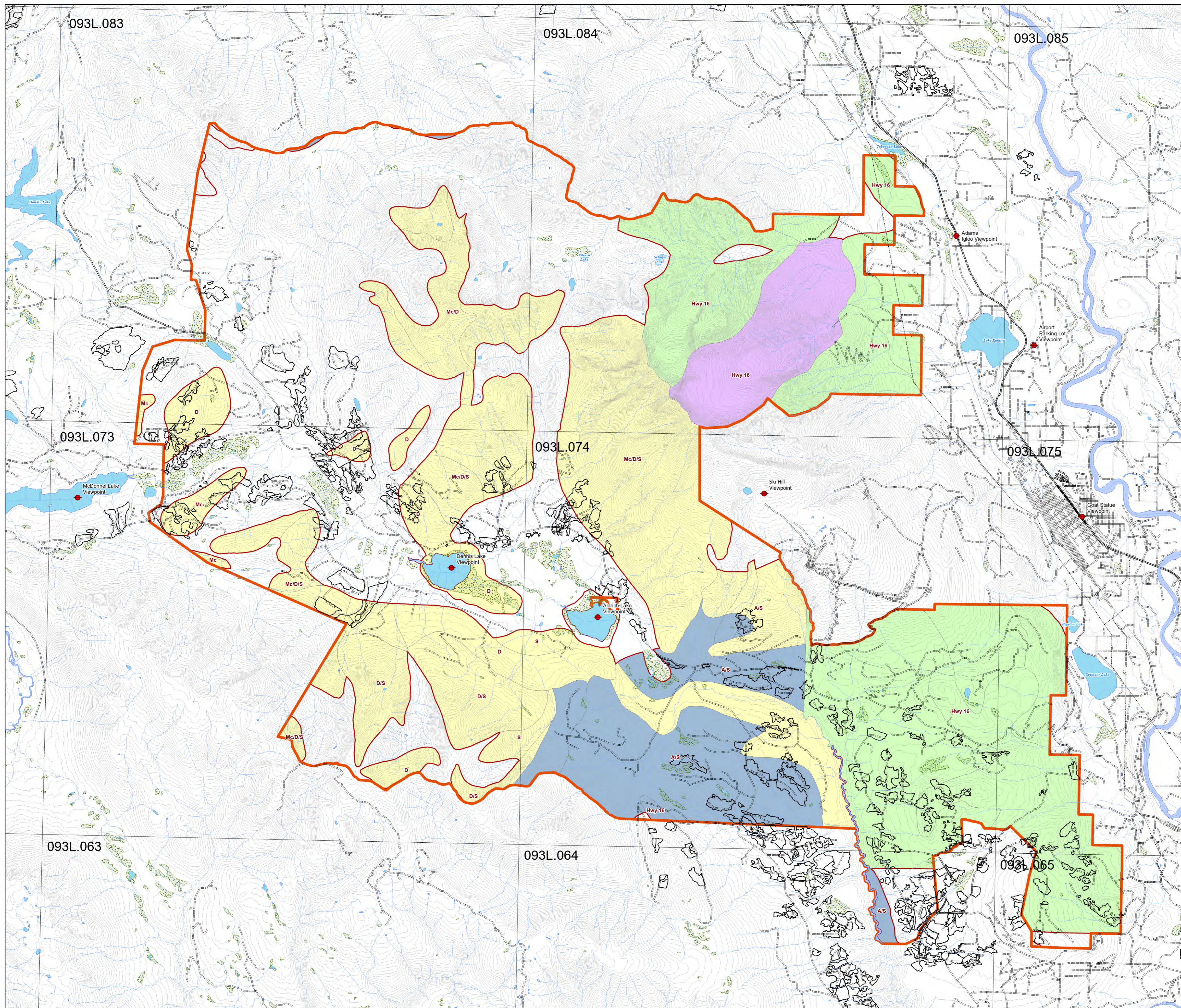


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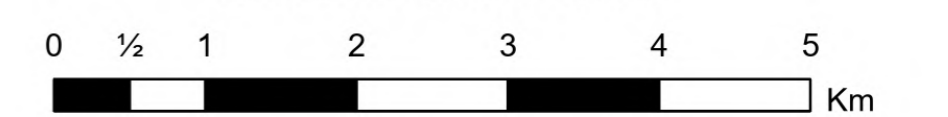
- Viewpoints
- Highway 16
- Roads
- Pipe and Powerlines
- Railway
- Streams
- VRI Age Class 1
- Wetlands
- Lakes
- Rivers
- Community Forest Boundary
- Mapsheet Grid 20K
- Visual Quality Objectives**
- VQO Boundary
- Modification - M
- Preservation - P
- Partial Retention - PR
- Retention- R

**Viewpoints**

- ..... McDonnel Lake
- ..... Dennis Lake
- ..... Aldrich Lake
- ..... Ski Hill
- ..... Hubert Rest Stop to Adams Igloo



**Scale: 1:50 000**



Contour Interval: 20m

Maps Prepared by:  
Date: April 2020

