

Forest Stewardship Plan

For

BC Timber Sales
Canadian Forest Products Ltd
Louisiana-Pacific Canada Ltd
West Fraser Mills Ltd
Chetwynd Mechanical Pulp
Little Prairie Community Forest
Tumbler Ridge Community Forest

In the South Peace River Region
(Dawson Creek Timber Supply Area, Tree Farm Licence 48, the K2N Community Forest, Tumbler Ridge Community Forest)



BCTS
BC Timber Sales



March 6, 2019

Table of Contents

FOREST STEWARDSHIP PLAN.....	1
TABLE OF CONTENTS.....	2
INTRODUCTION.....	3
1.0 INTERPRETATIONS.....	3
1.1 DEFINITIONS.....	3
1.2 AGREEMENT HOLDERS AND AGREEMENTS.....	4
2.0 TERM OF THE FOREST STEWARDSHIP PLAN.....	4
3.0 FOREST DEVELOPMENT UNITS (FDU).....	4
3.1 ITEMS IDENTIFIED IN FDU'S.....	4
3.2 NEW FOREST DEVELOPMENT UNITS.....	7
4.0 RESULTS AND STRATEGIES.....	8
4.1 OBJECTIVES SET BY GOVERNMENT FOR SOILS.....	8
4.2 OBJECTIVES SET BY GOVERNMENT FOR WILDLIFE.....	9
4.3 OBJECTIVES SET BY GOVERNMENT FOR WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS.....	9
4.4 OBJECTIVES SET BY GOVERNMENT FOR WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL.....	10
4.4.1 <i>Old Growth Management</i>	10
4.4.2 <i>Patch Management</i>	10
4.4.3 <i>TFL 48 and TSA 40 FDU Strategy – Provincial Non-spatial Old Growth Objective</i>	11
4.5 OBJECTIVES SET BY GOVERNMENT FOR WILDLIFE AND BIODIVERSITY – STAND LEVEL.....	11
4.5.1 <i>Wildlife Tree Retention</i>	11
4.5.2 <i>Restrictions on harvesting</i>	12
4.6 OBJECTIVES SET BY GOVERNMENT FOR VISUAL QUALITY.....	12
4.6.1 <i>Scenic areas with no visual quality objectives</i>	12
4.6.2 <i>For scenic areas with visual quality objectives</i>	13
4.6.3 <i>Other circumstances</i>	13
4.7 OBJECTIVES SET BY GOVERNMENT FOR CULTURAL HERITAGE RESOURCES.....	13
5.0 MEASURES.....	14
5.1 NATURAL RANGE BARRIERS.....	14
5.2 INVASIVE PLANTS.....	15
6.0 STOCKING REQUIREMENTS.....	16
6.1 GENERAL STANDARDS FOR ALL FDU'S.....	16
6.1.1 <i>Regeneration Date</i>	16
6.1.2 <i>Free Growing Date</i>	16
6.1.3 <i>Minimum Preferred Well Spaced Density at Free Growing</i>	17
6.1.4 <i>Minimum Preferred and Acceptable Well Spaced Density at Free Growing</i>	17
6.1.5 <i>Target Density at Free Growing</i>	17
6.1.6 <i>Maximum Coniferous Density</i>	17
6.1.7 <i>Maximum Deciduous Density</i>	17
6.1.8 <i>Clarification</i>	17
6.1.9 <i>Deciduous Stems Retained at Harvest</i>	17
6.1.10 <i>Crop tree versus brush height ratios</i>	17
6.2 VARIATIONS FROM GENERAL STANDARDS – ALL FDU'S.....	17
<i>Riparian Management Zones</i>	17
<i>Moose browse management</i>	18
<i>Deciduous Stocking Standards</i>	18
<i>Enhanced Stocking Standards</i>	18
<i>Pine Stem Rust Spacing Exemption</i>	18
<i>Transition Ecosystems ESSF to SBS and ESSF to BWBS</i>	18
<i>Minimum inter-tree distance (MITD)</i>	18
7.0 RPF SEALS AND COMPANY ENDORSEMENTS.....	20

8.0	APPENDICES	21
	APPENDIX A – STOCKING STANDARDS TABLE	21
	APPENDIX B – FSP MAPS.....	29
	APPENDIX C – TFL 48 AND TSA 40 FDU’S NON-SPATIAL OLD GROWTH ORDER TARGETS BY LANDSCAPE UNIT AND BEC VARIANT.....	30
	APPENDIX D – CUTTING PERMIT / TSL LIST.....	32
	APPENDIX E – ROAD PERMIT LIST.....	36
	APPENDIX F – BCTS DECLARES AREAS	39

Introduction

This Forest Stewardship Plan (FSP) is being developed as a joint effort from the listed forest tenure holders operating in the Peace Natural Resource District. The multi-signatory FSP will foster consistency of application of management practices outlined by regulatory rules as well as voluntary and best management practices within the respective operating areas inside TFL 48, TSA 40 and TSA 41. The consistency of application of management practices will serve to aid the public, stakeholders and First Nations in gaining a deeper understanding and confidence in the forest practices being exercised on the landscape.

1.0 Interpretations

1. In this FSP, the singular includes the plural and the plural includes the singular, unless the context indicates otherwise.
2. Unless otherwise expressly indicated, or indicated by context, terms used in this FSP have the definition given them, as of the date of submission, in FRPA and the Forest Act and the regulations under them.

1.1 Definitions

The following definitions apply to this FSP and its results, strategies, measures and stocking standards.

“**Agreements**” means the replaceable and non-replaceable Forest Licenses (FL), Pulpwood Agreements (PA) and Community Forest Agreements (CFA) listed in Table 1.

“**Agreement holders**” means the companies and organizations listed in Table 1.

“**Holders of this FSP**” means the companies and organizations listed in Appendix B

“**Applicable agreement holders**” means the companies and organizations whose agreements and harvesting rights apply to the FDU or portion of the FDU as identified in Appendix C

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

“**FDU**” means a Forest Development Unit proposed by agreement holders.

“**FPPR**” means the Forest Planning and Practices Regulation.

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

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

“**GAR**” means the Government Actions Regulation.

“**LRMP**” means Land and Resource Management Plan.

“**Minister**” means the person who has, on behalf of government, approved this FSP, or such other person as that person may delegate.

“**Term**” means the period specified in [Section 2.0](#).

“**BWBS**” means the Boreal White and Black Spruce, its subzones and variants.

“**SBS**” means the Sub-Boreal Spruce, its subzones and variants.

“**ESSF**” means Engelmann Spruce Subalpine Fir, its subzones and variants.

Cutting Permits – any reference to cutting permits will also refer to a timber sale that has been signed by the Timber Sale Manager.

Road Permits – Any reference to road permits will also refer to Forest Service Road approved by a Timber Sale Manager.

"Qualified registered professional (QRP)" means, with respect to an activity for which this forest stewardship plan requires a qualified registered professional, a person who has appropriate education and experience to carry out the activity, and
 ii) is a member of, or licensed by, a regulatory body in British Columbia that has the legislated authority to regulate its members performing the activity

1.2 Agreement Holders and Agreements

This FSP applies to the **agreement holders** of this FSPs and agreements indicated in Table 1

Table 1 List of **Agreement holders** and **Agreements**.

Agreement Holders	Agreements	Timber Supply Area	Resource District
Canadian Forest Products Ltd. Chetwynd Division	TFL 48	TFL 48	Peace
British Columbia Timber Sales, Peace-Liard Business Area		TFL 48	Peace
		Dawson Ck	
Dunne-Za Ventures LP Canadian Forest Products Ltd. Chetwynd Division	FL A57332	Dawson Ck	Peace
Louisiana Pacific Canada Ltd.	FL A60064, PA 10	Dawson Ck	Peace
Chetwynd Mechanical Pulp Ltd.	FL A70730, PA 13	Dawson Ck/ Fort St John	Peace
West Fraser Mills Ltd. Chetwynd Forest Industries Division	FL A13840, FL A74729, FL A79654, FL A79487, FL A64393	Dawson Ck	Peace
Little Prairie Community Forest	CFA K2N	Dawson Ck	Peace
Tumbler Ridge Community Forest	CFA K20	Dawson Ck	Peace

2.0 Term of the Forest Stewardship Plan

1. The date of submission of this FSP is March 6th, 2019
2. The **Term** of this FSP is five years beginning on the date specified by the Minister.

3.0 Forest Development Units (FDU)

3.1 Items Identified in FDU's

The **FSP** maps, included in Appendix B of this **FSP**, identifies the following items that are located in the **FDU** and in effect 4 months before the date this **FSP** was submitted for approval:

- Community Watersheds,
- Areas to which commercial timber harvesting is prohibited by another enactment (eg. Private Land),
- Landscape Unit Boundaries, and
- Cutting Permits and Road Permits held by the **Agreement holders**.

It is understood that ongoing updates occur and these maps are current based on submission date only.

An overview of the FDU's is provided in figure 1.

The **FSP** identifies these and other items as follows:

Table 2: Identified FSP content

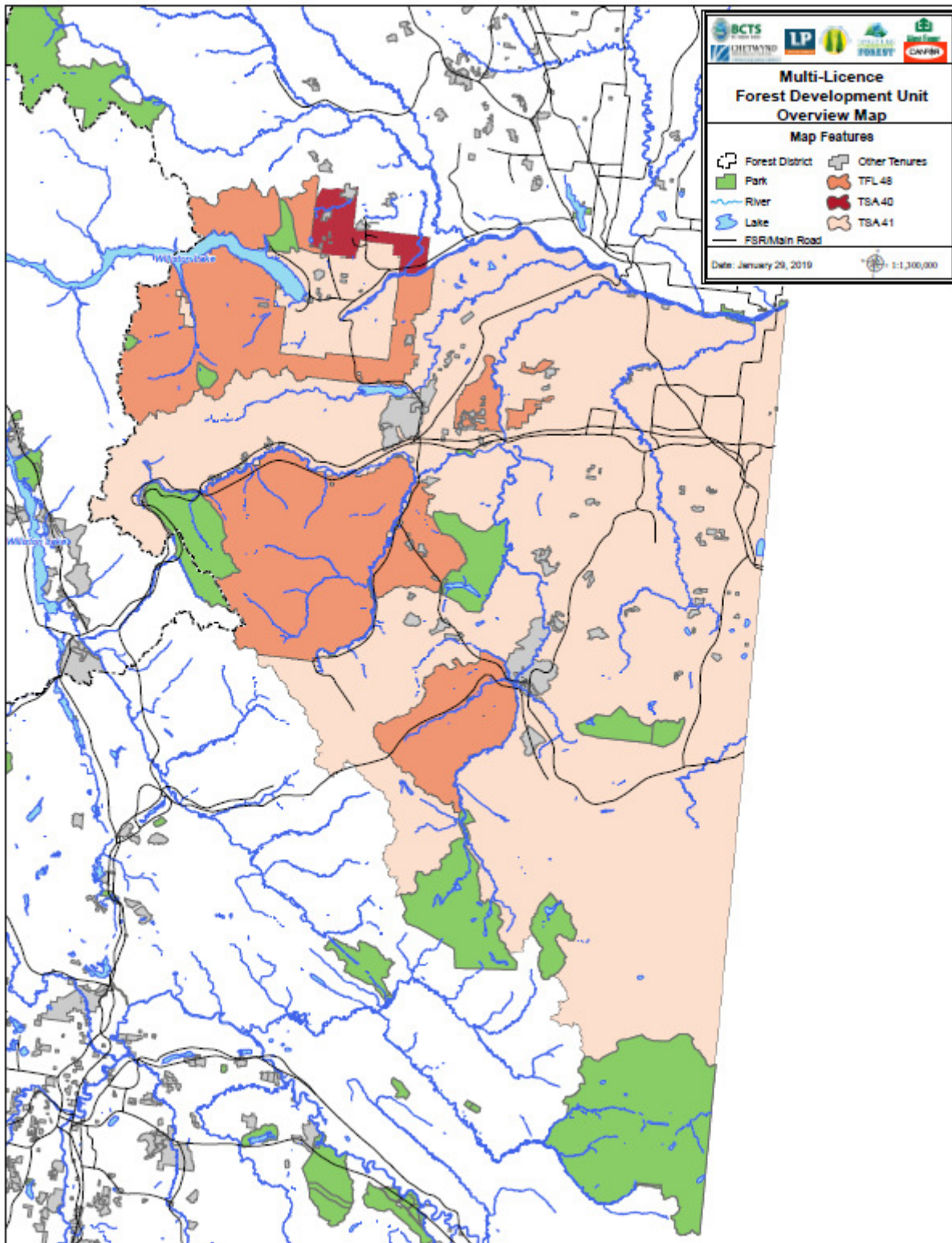
Type	Species/Item	FSP maps	FSP section	Related Order
Ungulate Winter Range	Elk and Mule Deer	Yes	NA	U-9-001
Ungulate Winter Range	Caribou, Mountain Goat, Big Horn Sheep	Yes	NA	U-9-002
Ungulate Winter Range	Northern Caribou, Stone's Sheep, Rocky Mountain Elk, Moose, Mule Deer and White tailed deer	Yes	NA	U-9-004
Wildlife Habitat Areas	Mountain Goat	Yes	NA	9-003, 9-004
Wildlife Habitat Areas	Fisher	Yes	NA	9-097, 9-098, 9-099, 9-100, 9-107, 9-108, 9-109, 9-110
Wildlife Habitat Areas	Data sensitive	Yes	NA	9-029
Wildlife Habitat Areas	Caribou	Yes	NA	9-050,051, 052, 053, 054, 055, 056, 057, 057, 058, 059, 060, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072, 073
Wildlife Habitat Areas	Connecticut Warbler and Black throated green warbler	Yes	NA	9-111 to 9-143
Wildlife Habitat Areas	Caribou corridors	Yes	NA	9-144, 9-145
Designated Area	Mountain Caribou - Moratorium	No – as per order	NA	Order in Council #338, June 20, 2019
Land Use Order	OGMA	Yes	4.4.1	Land Use Objectives for the Dawson Creek Timber Supply Area
Recreation	Established sites	Yes	NA	NA
Visuals	Scenic Areas	Yes	4.6	
Lakeshore management zones	No government objectives at this time	NA	NA	NA
Community Watersheds	No government objectives at this time	NA	NA	NA
Fisheries sensitive	No government objectives at this time	NA	NA	NA

watersheds				
------------	--	--	--	--

Permits	Road and Cutting Permits	NA	Appendix D, E	NA
Declared areas	blocks	Yes – Canfor blocks	Appendix F - BCTS	NA

As per section 69 of the FPPR it is a requirement to follow the wildlife orders or more specifically the general wildlife measures identified in these orders. Although there is no requirement for a result and strategy to be identified in an FSP, there is a requirement to address the order as identified content.

Figure 1: Overview of Chetwynd FSP Forest Development Units



3.2 New Forest Development Units

New Forest Development Units in this FSP and where the applicable agreement holders harvesting rights apply, are listed in Table 3.

Results, Strategies, Measures and Stocking Standards for one or more FDU apply to the **Agreement holders** identified in Table 3.

Woodlots, private land, Indian Reserves, Provincial Parks and Protected Areas and any other lands with legal encumbrances which preclude harvesting by the **Applicable agreement holders** of this FSP that fall within the FDU area are not considered to be part of the FDU area and may or may not be shown on the FSP maps.

Table 3: **Agreement holders**

FDU Name	Applicable Agreement Holders	Agreement Type & Number	Area of Harvesting Rights
TFL 48	Canadian Forest Products Ltd.	TFL 48	TFL 48
	British Columbia Timber Sales, Peace-Liard Business Area.	Various (subject to sec 1.09 of TFL 48 Inst 4 Licence Document)	
TSA 41	Canadian Forest Products Ltd. & Dunne-Za Ventures LP.	FL A57332	Dawson Creek TSA
	British Columbia Timber Sales, Peace-Liard Business Area	TSLs	
	Louisiana Pacific Ltd.	FL A60064 PA 10	
	Chetwynd Mechanical Pulp	FL A70730 PA 13	
	West Fraser Mills Ltd.	FL A13840 FL A74729 FL A79654 FL A79487 FL A64393	
TSA 41	Little Prairie Community Forest	CFA K2N	K2N Community Forest
TSA 40	Chetwynd Mechanical Pulp	PA 13	Fort St John TSA
TSA 41	Tumbler Ridge Community Forest	CFA K20	TR Community Forest

4.0 Results and Strategies

4.1 Objectives Set By Government for Soils

For the objective for soils that is set out in Section 5 of the FPPR, the **Agreement holders** adopt, as a result or strategy, sections 35 and 36 of the FPPR as those sections were on the date this FSP was submitted for approval.

4.2 Objectives Set By Government for Wildlife

Refer to identified content section 3.1 of this **FSP** for orders that apply. FPPR Section 7 notices have also been covered by these orders.

4.3 Objectives Set By Government for Water, Fish, Wildlife and Biodiversity within Riparian Areas

The **Agreement holders**, when conducting primary forest activities within all FDU's will undertake to comply with the default practice requirements of section 47 (stream riparian classes), 48 (wetland riparian classification, 49 (lake riparian classification), 50, 51, and 52(2) of the FPPR as those sections were on the date of submission.

For the purposes of section 12 (3) of the FPPR for the retention of trees in the riparian management zones (RMZ), the results that apply to the agreement holders' areas of primary forest activity in all the FDU's are:

- (a) within 30m of an S4 stream, retain a minimum of 20% of the area, basal area or merchantable stems;
- (b) within 30m of an S5 stream, W3 wetlands, or L3 lake, retain a minimum of 10% of the area, basal area or merchantable stems.
- (c) within 20m of an S6 stream, retain a minimum of 5% of the area, basal area or merchantable stems.
- (d) within 5m of a S4, S5, S6 stream, retain over the length of the stream reach naturally occurring ground vegetation, shrubs, advanced regeneration, non-merchantable conifers, and non-merchantable stems, to the extent practicable considering partial cutting activities being conducted.
- (e) The minimum targets set out in Table 5 for stream classes S1A, S1B, S2 and S3, W1 and W5 wetlands and L1A and L1B lake classes.

Table 5 - Riparian Management Area, Reserve Zone and Riparian Management Zone Specifications and Retention Table

Riparian Class	Riparian Reserve Zone Minimum Width (m)	Riparian Management Zone Minimum Width (m)	Riparian Management Area Minimum Width (m)	Minimum Tree Retention within the RMA.
Streams				
S1 - A	0	100	100	Minimum 25 % of the RMZ area.
S1 - B	50	20	70	Minimum 25 % of the RMZ area.
S2	30	20	50	Minimum 25 % of the RMZ area.
S3	20	20	40	Minimum 25 % of the RMZ area.
S4	0	30	30	As per 4.3 a, d
S5	0	30	30	As per 4.3 b, d
S6	0	20	20	As per 4.3 c, d
Wetlands				
W1	10	40	50	Minimum 25% of the RMZ area.
W3	0	30	30	As per 4.3 b
W5	10	40	50	Minimum 25% of the RMZ area.
Lakes				
L1A	0	0	0	
L1B	10	0	10	
L3	0	30	30	As per 4.3 b

4.4 Objectives Set By Government for Wildlife and Biodiversity – Landscape Level

4.4.1 Old Growth Management.

In relation to the Old Growth Management Area established under section 93.4 of the Land Act, for Dawson Creek Forest District Area approved May 29, 2009, the following result applies to the TSA 41 FDU:

Result for objective for Old Growth Management Areas

The **agreement holders** will ensure that no combination of roads, clearings, salvage or harvesting for operational issues exceeds:

- A. 10% of OGMA area for OGMA's less than 50 ha; or
- B. 5% or 40 ha, whichever is less, for OGMA's of 50 ha or greater.

For any planned disturbance in OGMA's as described in A or B, written notification will be provided within cutting permit submissions to **FLNRORD**.

4.4.2 Patch Management

As per section FPPR 12.1 (3) the **Agreement holders** will undertake to comply with FPPR sections 64 and 65 as those sections were at the time of submission, during the term of this plan, for the TFL 48, TSA 41 and TSA 40 **FDU's**.

4.4.3 TFL 48 and TSA 40 FDU Strategy – Provincial Non-spatial Old Growth Objective

In this result and strategy:

The following results/strategies relate to the Provincial Non-Spatial Old Growth Objective made effective on June 30, 2004 under section 4 of the Forest Practices Code of BC Act and apply to the TFL 48 and TSA 40 FDU's:

As a result the submission of a cutting permit will not prevent harvesting conducted by the **Agreement holder**:

- a) From maintaining the percentage of forest area in old seral above the target levels indicated in Appendix C by Biogeoclimatic (Bec) variant and Landscape unit for Landscape units with a high or intermediate biodiversity emphasis option or
- b) From maintaining the percentage of forest area in old seral above the target draw down levels indicated in Appendix C by Bec variant and Landscape unit for Landscape units with a low biodiversity emphasis option or.
- c) From being consistent with any approved recruitment strategy for any unit (BEC variant and Landscape combination) in deficit.

In addition, as a strategy the **Agreement holder** will:

- d) Submit a recruitment strategy for approval to the ministry responsible, in situations where a draw down target is being used because the BEC variant and landscape combinations are below target as per 4.4.3 b above.
- e) Will submit a recruitment strategy for approval to the ministry responsible, if any BEC variant and landscape combination are in deficit as per 4.4.3 a or b above.
- f) With any recruitment strategy consider, but not be limited to the consideration of:
 - i. a projection of future stand condition based on forest health infestations (or damage) and;
 - ii. more current information that will better predict old growth attributes (e.g. Lidar, drone, ground sampling);
 - iii. the quickest and/or best route to restoring old targets ;
 - iv. an option that maintains or improves old serial protection across the landscape for biodiversity purposes ;
 - v. An option that improves the protection of habitat (species at risk, wildlife features, connectivity, interior habitat), First Nation's and cultural values, and
 - vi. A diversity in stand structure and a recognition of natural forest cycles.

4.5 Objectives Set By Government for Wildlife and Biodiversity – Stand Level

4.5.1 Wildlife Tree Retention

For the purpose of section 12.5(1) of the FPPR, in relation to the objectives set by government for wildlife and biodiversity at the stand level set out in section 9.1 of the FPPR, the results or strategies that apply to areas of primary forest activity in all **FDU's** are:

- (a) If an **Agreement holder** completes harvesting in one or more cutblocks during the 12 month period beginning on April 1 of any calendar year, the **Agreement holder** will ensure that, at the end of that 12 month period, the total area covered by wildlife

tree retention areas at the completion of harvesting that relate to the cutblocks is a minimum of 7% of the total area of the cutblocks, and;

- (b) If an **Agreement holder** harvests timber in a cutblock that is greater than 15 hectares in size, the **agreement holder** must ensure that, at the completion of harvesting, the total amount of wildlife tree retention areas that relates to the cutblock is a minimum of 3.5% of the area of the cutblock.

4.5.2 Restrictions on harvesting

In relation to the portion of the objective (FPPR 9.1) that relates to **FPPR** section 67 and restrictions on harvesting, as per **FPPR** 12.5 (2) the **Agreement holders** will use the following strategy:

1. No harvesting of wildlife trees will occur unless the following conditions are met:
 - a) Consistent with **FPPR** section 67 the trees on the net area to reforest of the cutblock to which the wildlife tree retention area relates have developed attributes that are consistent with a mature seral condition; or
 - b) The wildlife trees are damaged or destroyed by insect, fire or blowdown; or
 - c) The incursion is to provide road access or maintain road safety where no practicable alternative exists.
2. For conditions 1 b) and 1 c) additional requirements must be met prior to harvesting wildlife trees.
 - a) A **QRP** has reviewed the wildlife trees, including a field review, and has determined and documented the following:
 - i) The cutblock(s) to which the wildlife trees relate has greater than 3.5% wildlife trees considering both the replacement and the wildlife trees to be removed.
 - ii) The replacement wildlife trees are a similar stand structure, age and species to the natural stands in the area.
 - iii) The replacement wildlife trees address cultural values or the existing wildlife trees were not protecting any specific cultural values.
 - iv) The replacement wildlife trees address wildlife habitat or the existing wildlife trees were not protecting any specific wildlife feature or species at risk.
 - v) The replacement wildlife trees provide an equivalent size (ha) and/or number (stems) to the wildlife trees being removed.

4.6 Objectives Set By Government for Visual Quality

Definitions applicable to this FSP section:

“Alteration” means changing or making something different as a result of conducting harvesting or road construction by the **Agreement holder**.

A Significant Public Viewpoint (SPV) means a position of importance or consequence to the public, from which a landscape is observed and has relevance to the landscape being assessed.

For established Scenic areas the following results and strategies apply to all FDUs:

4.6.1 Scenic areas with no visual quality objectives

The objective set by government for visual quality, as per FPPR section 9.2, is: *for a scenic area that was established on or before October 24, 2002, and for which there is no visual quality objective is to ensure that the altered forest landscape for that scenic area, will conform to the following result:*

In this Result:

When evaluated from a **SPV**, the **Alteration** resulting from harvesting conducted by the **agreement holder** will achieve the following results on all **FDU**'s:

In a visual sensitivity class of 1 a result of retention or preservation will be achieved;
In a visual sensitivity class of 2 a result of partial retention or retention will be achieved;
In a visual sensitivity class of 3 a result of modification or partial retention will be achieved
In a visual sensitivity class of 4 a result of modification or partial retention will be achieved
In a visual sensitivity class of 5 a result of maximum modification or modification will be achieved

4.6.2 For scenic areas with visual quality objectives

The following result applies in relation to the grandfathered objectives set by government for visual quality in the GAR order established December 16, 2005, supplemental order of August 9, 2006 and as amended in an order of July 12, 2012 for FDU TFL 48 and TSA 41. For TSA 40 the grandfathered objectives come from GAR 17 and a March 21st, 1997 DM letter.

In this Result:

When evaluated from a **SPV**, the **Alteration** resulting from harvesting conducted by the **Agreement holder** within a known scenic area will be consistent with the visual quality objectives established for the subject area and will achieve the following results for all **FDU**'s:

- a) *Preservation (P) VQO/VQC*: Will be, very small in scale and not easily distinguishable from the pre-harvest landscape.
- b) *Retention (R) VQO/VQC*: Will be, difficult to see, small in scale, and natural in appearance.
- c) *Partial retention (PR) VQO/VQC*: Will be easy to see, small to medium in scale, and natural and not rectilinear or geometric in shape.
- d) *Modification (M) VQO/VQC*: Will be very easy to see, and is large in scale and natural in its appearance, or small to medium in scale but with some angular characteristics.
- e) *Maximum modification (MM) VQO/VQC*: Will be very easy to see, and is very large in scale, rectilinear and geometric in shape or both.

4.6.3 Other circumstances

Despite 4.6.1 and 4.6.2 when the **Agreement holder** determines that the visual quality objective cannot be fully met due to efforts to address forest health or visual rehabilitation, the following result and strategy will apply to the area in question for all **FDU**'s:

1. In the situation where the **QRP** determines that the **alteration** can be largely consistent with visual quality objectives as per FPPR 25(1) the **Agreement holder** will:
 - a) With a cutting permit submission provide a notice that this section of the FSP is being used; and;
 - b) Ensure the visual design is consistent with the objectives and describe which one of, ease of seeing or scale cannot be consistent and;
 - c) Describe what mitigation is being implemented to be as consistent as practicable.
 - d) Achieve the result as specified in the notification.

4.7 Objectives Set By Government for Cultural Heritage Resources

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

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

In this Section:

“**Cultural heritage evaluation**” means the sharing of information and engagement with applicable First Nations, for the purpose of gathering cultural heritage information. This discussion includes, an appraisal, by First Nations of the value of an object, site, or location of a traditional societal practice that is of historical or cultural significance to First Nations. This discussion includes options for mitigating or protecting from any impact to that object, site, or location of a traditional societal practice as a result of the forest practice contemplated. This covers values not regulated under the Heritage Conservation Act and are of continuing importance to First Nations people.

In relation to the objective set by government for cultural heritage resources set out in section 10 of the FPPR, the strategies that apply to all FDU’s are:

- a) before an **agreement holder** submits an application for cutting authority, the agreement holder will:
 - (i) Gather and summarize information as per consultation processes defined by government.
 - (ii) Ensure that a **cultural heritage evaluation** is completed.
- b) Where an **agreement holder** receives site specific information or identifies a cultural heritage resource the **agreement holder**, will:
 - (i) Make a record of the communication with the affected person or group.
 - (ii) Identify the location and attributes of the cultural heritage resource in question, both on a map and on the ground;
 - (iii) evaluate the direct impact of the planned development on the cultural heritage resource;
 - (iv) conserve or protect the cultural heritage resource at the known location, considering:
 - (A) the relative value or importance of the cultural heritage resource to the continued traditional use by a First Nations person;
 - (B) the relative abundance or scarcity of the cultural heritage resource;
 - (C) the extent of the traditional use of the cultural heritage resource, and;
 - (D) the impact on the **agreement holder’s** government granted timber harvesting rights in conserving or protecting the cultural heritage resource,
 - (v) Provide the results of the **cultural heritage evaluation** to government upon request.
- c) The **agreement holder** will ensure all primary forest activities will be consistent with the recommendations given in a **cultural heritage evaluation** referred to in subparagraph (a), and

Where a previously unidentified cultural heritage resource feature is encountered or made known during primary forest activities, the **agreement holder** will cease operations to the extent necessary to protect the feature, until the process described in b) can be carried out.

5.0 Measures

5.1 Natural Range Barriers

As per section 48 of the **FRPA** and section 18 of the **FPPR** the following measures will be taken in all **FDUs** that contain or are adjacent to **Range tenures**, to mitigate the effect of removing or rendering

ineffective Natural range barriers by the **agreement holder**:

1. On an annual basis, provide to **Range tenure** holders cutblock plans for comment.
2. Where the **Range tenure** holder or other qualified person indicates the planned development will remove or render ineffective a natural range barrier the **agreement holder** will:
 - a) reach an agreement with the **Range tenure** holder on mitigation measures prior to harvesting; and,
 - b) implement the agreed upon mitigation measure within one snow free season following harvesting, unless an
 - c) alternative timeframe is agreed upon by the **agreement holder** and the **Range tenure** holder;
 - d) if the **agreement holder** and **Range tenure** holder cannot agree on mitigation measures, the **agreement holder** will consult with district range staff to determine a course of action, prior to harvesting and implement alternative mitigation measures within one snow free season. Examples of mitigation measures include, but are not limited to, cattle guards, debris fences, windrows, debris log placement, wing fencing and fence line establishment.
3. Where identified within one year after harvesting or road construction that a Natural range barrier has been removed or rendered ineffective by the agreement holder, the agreement holder will follow the same process as per 2 above except the timeline will be within one snow free season following knowledge of that Natural range barrier break.

5.2 *Invasive Plants*

Definitions applicable to this FSP section:

“Areas Disturbed” means: areas of exposed mineral soil greater than 0.1 ha outside the net area to reforest (NAR). Despite the net area to reforest criteria, the first 50m of rehabilitated roads and a 20 m buffer (as measured from the edge of the running surface and out into the cutblock) on permanent access structures will be treated if disturbed. The maintained running surface of permanent access structures will not be treated.

“Seeded” means using seed that has been checked to ensure regulated or undesirable plants are not introduced and a “certificate of seed analysis” has been obtained as proof of this check. Canada Common Number 1 Forage Mixture or a native seed mix will be used. Seed containing invasive plants will not be used.

“Area of known” means areas where invasive plants are known to occur based on the provincial database system for invasive plants, areas identified by **agreement holders**, and a 500m buffer around those areas.

“Provincial resources” means the provincial database system for invasive plants, any relevant reports from the Invasive Alien Plant Program and qualified **FLNRORD** staff.

The measures for preventing the introduction or spread of invasive plants in the FDUs are:

- (a) Invasive Plants are those plants listed in the Invasive Plants Regulation.
- (b) On an annual basis the **agreement holders** will train woodlands staff and longer term (greater than 1 year) woodlands contractors in:

- (i) Identifying invasive plants that exist or threaten to establish within the **agreement holder's** FDU and;
 - (ii) Best practices for preventing the spread of invasive plants (current document Best Practices for Preventing the Spread of Invasive Plants During Forest Management Activities, 2013, or replacement document).
- (c) on an annual basis, the **agreement holder** will identify **area of known** sites and newly identified sites of invasive plants using information gathered from the **provincial resources** and **agreement holder's** staff;
- (d) Any cutblocks that overlap areas identified in part (c) will have that information identified in the cutblock(s) site plan. The site plan will identify at least 2 best practices to follow to prevent the spread of invasive plants.
- (e) where the **agreement holder's** staff or contractors identify new sites of invasive plants, within any of the **FDU's**, a record containing site location and plant species will be documented and reported using an accepted format (to the Invasive Alien Plant Program) such as the application "report a weed".
- (f) within the sites noted in subparagraph (c), **areas disturbed** by the **agreement holder** will be **seeded** within one year of completion of the harvest/construction to minimize seedbed available for colonization by invasive plants. If the **areas disturbed** are not successfully re-vegetated within two years of being disturbed, the seeding will be repeated, but limited to areas of productive soil being available for the seed to establish.

6.0 Stocking Requirements

6.1 General Standards for all FDU's

For the purposes of section 16(1) of the Forest Planning and Practices Regulation, section 44(1) of that regulation will apply to every area where the **Agreement holder** of this **FSP** is required to establish a free growing stand.

For the purposes of section 16(3) of the Forest Planning and Practices Regulation, for each area where a holder of this **FSP** is required to establish a free growing stand

- (a) The applicable stocking standards and applicable regeneration date referred to in section 44(1)(a) of the Forest Planning and Practices Regulation, and
- (b) The applicable stocking standards and applicable free growing height referred to in section 44(1)(b) of the Forest Planning and Practices Regulation

Are subject to the Variations from General Standards in paragraph 6.2, as set out in Appendix A opposite the Biogeoclimatic Site Series that applies to the Standard Unit.

.6.1.1 Regeneration Date

The Regeneration Date is 4 years after the commencement date of the cutblock. The Regeneration Date of 4 years may be extended to 7 years where natural ingress is used to achieve regeneration stocking standards.

6.1.2 Free Growing Date

The late free growing date for all Standard Units will be 20 years after the commencement date of the cutblock.

6.1.3 Minimum Preferred Well Spaced Density at Free Growing

The minimum preferred well-spaced density at free growing is equal to the minimum preferred well-spaced density at regeneration delay as described in Appendix A.

6.1.4 Minimum Preferred and Acceptable Well Spaced Density at Free Growing

The minimum preferred and acceptable well-spaced density at free growing is equal to the minimum preferred and acceptable well-spaced density at regeneration delay as described in Appendix A.

6.1.5 Target Density at Free Growing

The target density at free growing is equal to the target density at regeneration delay as described in Appendix A.

6.1.6 Maximum Coniferous Density

The maximum density for Lodgepole Pine or sub-alpine fir leading stands (defined as those stands where the leading species comprises 80% or greater of the total tree species composition) is 25,000 countable coniferous stems per hectare. All other species and mixed pine stands in all site series are limited to a maximum of 15,000 countable coniferous stems per hectare.

6.1.7 Maximum Deciduous Density

No maximum density applies to deciduous stocking standards.

6.1.8 Clarification

Engelmann Spruce (Se) can be replaced with Interior Spruce (Sx) if the use of the Interior Spruce is consistent with the provincial seed transfer guidelines or the “Chief Forester’s Standards for Seed Use” when they are established;

6.1.9 Deciduous Stems Retained at Harvest

For any opening that is being managed as an even aged stand, any overstory deciduous stems that were retained at the time of harvest will be considered non-deleterious competition for the purpose of free growing assessment.

6.1.10 Crop tree versus brush height ratios

For all BWBS and SBS standard units the relative brush height requirement is 150%. For all ESSF standard units the relative brush height requirement is 125%.

6.2 Variations from General Standards – All FDU’s

Despite section 6.1, an **Agreement holder** of this **FSP** will apply the following rules or stocking standards in the following circumstances:

Riparian Management Zones

Where brush and deciduous has been retained as part of retention requirements in FSP sections 4.3 it will be considered non deleterious.

Moose browse management

In moose management areas birch, willow, alder and dogwood will not be considered competition to conifers during free growing assessments. For the purposes of this variance, moose management areas will be based on the best available information. The hierarchy for best available information will first use available moose habitat mapping. Where moose habitat mapping is not available, then this variance will not apply in caribou habitat areas.

Deciduous Stocking Standards

The minimum targets that apply if a deciduous stand is Cottonwood leading or the deciduous stand is older than 10 years will be: min (pa) 1800 sph, min (p) 1530 sph

Enhanced Stocking Standards

For any Stocking Standard Id, for the purposes of "Enhanced Stocking Standards"; the target stocking standard can be raised by 400 and the minimum by 200. A minimum planting prescription targeting 1600sph is required.

Pine Stem Rust Spacing Exemption

In pine-leading strata with greater than 20% incidence of stem rusts and exceeding the Maximum Coniferous Density stated in 6.1.6, the stratum will be exempt from the requirements of Maximum Coniferous Density stated in 6.1.6.

Transition Ecosystems ESSF to SBS and ESSF to BWBS

Where a transitional ecosystem show species and indicators from both zones the following process will occur:

- a) The best fit standard unit will be selected from appendix A.
- b) The species listed for the best fit unit will be adjusted to include species that are both naturally occurring in the area and that are also ecologically suitable in the adjacent zone.
- c) Species selected as preferred must be preferred in at least one of zones and species selected as acceptable must be at least acceptable in one zone.

Minimum inter-tree distance (MITD)

Will be reduced from 2.0 meters to 1.6 meters for a standard unit, due to;

- non timber values:
 - active range tenures for obstacle planting in areas with a high potential for cattle congregation
 - sites with a significant number of dispersed wildlife trees (e.g., greater than 50 uniformly distributed trees/ha)
 - prescribed riparian management as per FSP section 4.3
 - sites where a stump avoidance strategy is employed to manage root rot
 - cluster planting (if required) to achieve established wildlife legal objectives or,
- site moisture limitations (recurring in sections less than stratification size) or,



- plantation failure (fill plants or under planting) or,
- site preparation (mounding only) for regeneration or,
- To facilitate increased planting density (20%) for rust management.

and a lack of suitable plantable microsites that prevents the achievement of target regeneration density (or increased density in the case of rust management) can be demonstrated through standard survey methodologies.







7.0 RPF Seals and Company Endorsements

RPF Seal

<p>Preparing Foresters:</p> <p><i>"I certify that I have determined that this work was performed to an acceptable standard"</i></p>			
	<p>Greg Yeomans, RPF FSP Coordinator Canfor</p>	<p>Ken Wolfe, RPF Planning Superintendent Chetwynd Forest Industries</p>	<p>Tony Wipfli, RPF Planning officer BC Timber Sales Peace Liard</p>

Company Endorsement

 <p>Mark Fonda, RFT Woodlands Manager Louisiana Pacific Canada Ltd</p>
 <p>Colin Neiser, RPF Woodlands Manager Chetwynd Forest Industries <i>A Division of West Fraser Mills Ltd</i></p>
 <p>Duncan McKellar Forest Operations Manger Tumbler Ridge Community Forest</p>
 <p>Don Rosen, RFT Woodlands Manager Canadian Forest Products Ltd.</p>

 <p>Shawn Sullivan, RFT Timber Sales Manager BC Timber Sales.</p>
 <p>Quinton Hayward, RPF Fibre Procurement Manager Chetwynd Mechanical Pulp Inc.</p>
 <p>Jeff Beale Director Little Prairie Community Forest</p>

8.0 Appendices

Appendix A – Stocking Standards Table

Conifer Stocking Standards – Even aged.

Stand. ID	BEC Zone/SZ	Site Series	Pref (p)	Acc (a)	Broad leaf ^c	Target	Min (pa)	Min (p)	MITD m	RGD yrs	FG yrs	Crop Tree Height	
												Species	(m)
1061938	BWBS All	101, 103	Pli, Sx	Acb, At, Bl	Ep	1400	700	600	2.0	4	20	Pli, Broadleaf	2.0
	(mw,wk1,wk2)											Sx (others)	1.0
1061940	BWBS All	102	Pli	Sx, At, Acb, Sb		1000	500	400	2.0	4	20	Pli, Broadleaf	1.4
												Sx (others)	1.0
1061960	BWBS All	104	Pli, Sx	Sb, At, Acb		1200	700	600	1.6	4	20	Pli, Broadleaf	1.4
												Sx (others)	0.8
1061961	BWBS All	110	Sx, Pli	Sb, Bl, Acb, At	Ep	1000	500	400	1.6	4	20	Pli, Broadleaf	2.0
												Sx (others)	1.0
1061962	BWBS All	111	Sx, Pli	Sb, Bl, Acb, At		400	200	200	1.0	4	20	Pli, Broadleaf	1.4
												Sx (others)	0.8
1061963	BWBS mw	112	Sx, Pli, Sb, Acb	At		400	200	200	1.0	4	20	Pli, Broadleaf	1.4
												Sx (others)	0.8
1061964	BWBS All	Complex 1 (1200 target mixed with 1000 target)	Pli, Sx	Sb, Bl, Acb, At	Ep	1100	600	500	1.6	4	20	Pli, Broadleaf	2.0
		101, 103, and 104 mixed with 110 or 102										Sx (others)	1.0
1061970	BWBS mw	Complex 2 (1200 target mixed with 400 target))	Pli, Sx	Sb, Bl, Acb, At		400	200	200	1.4	4	20	Pli, Broadleaf	1.4
		101, 103, and 104 mixed with 112										Sx (others)	0.8
1061971	BWBS mw	Complex 3 (800 target mixed with 400 target)	Pli, Sx	Sb, Bl, Acb, At	Ep	800	350	300	1.4	4	20	Pli, Broadleaf	1.4
		102 or 110 mixed with 112										Sx (others)	0.8

Conifer Stocking Standards – Even aged.

Stand. ID	BEC Zone/SZ	Site Series	Pref (p)	Acc (a)	Broad leaf ^c	Target	Min (pa)	Min (p)	MITD m	RGD yrs	FG yrs	Crop Tree Height	
												Species	(m)
1061972	ESSF mv2	01, 04, 05	Bl, Sx, Pli		At, Acb, Ep	1200	700	600	2.0	4	20	Pli	1.6
												Sx (others)	0.8
1061973	ESSF mv2	02	Bl, Sx, Pli		At, Acb, Ep	1200	700	600	1.6	4	20	Pli	1.6
												Sx (others)	0.8
1061974	ESSF mv2	03	Bl, Sx, Pli	Sb	At, Acb, Ep	1000	500	400	1.0	4	20	Pli	1.2
												Sx (others)	0.6
1061975	ESSF mv2	06	Bl, Sx, Pli		At, Acb, Ep	400	200	200	1.0	4	20	Pli	1.2
												Sx (others)	0.6
1061976	ESSF mv2	Complex 1 (1200 target mixed with 1000 target)	Bl, Sx, Pli	Sb	At, Acb, Ep	1100	600	500	1.6	4	20	Pli	1.2
		01, 02, 04, or 05 mixed with 03										Sx (others)	0.6
1061977	ESSF mv2	Complex 2 (1000 target mixed with 400 target))	Bl, Sx, Pli	Sb	At, Acb, Ep	400	200	200	1.6	4	20	Pli	1.2
		03 mixed with 06										Sx (others)	0.6
1061978	ESSF mv2	Complex 3 (1200 target mixed with 400 target))	Bl, Sx, Pli		At, Acb, Ep	800	350	300	1.6	4	20	Pli	1.2
		01, 02, 04, or 05 mixed with 06										Sx (others)	0.6
1061979	ESSF mv4	01	Bl, Sx, Pli		At, Acb, Ep	1200	700	600	1.6	4	20	Pli	1.6
												Sx (others)	0.8
1061980	ESSF mv4	02	Bl, Sx, Pli		At, Acb, Ep	1000	500	400	1.6	4	20	Pli	1.6
												Sx (others)	0.8
1061981	ESSF mv4	03	Bl, Sx, Pli	Sb	At, Acb, Ep	1000	500	400	1.6	4	20	Pli	1.2

Conifer Stocking Standards – Even aged.

Stand. ID	BEC Zone/SZ	Site Series	Pref (p)	Acc (a)	Broad leaf ^c	Target	Min (pa)	Min (p)	MITD m	RGD yrs	FG yrs	Crop Tree Height	
												Species	(m)
1061982	ESSF mv4	04	Bl, Sx, Pli		At, Acb, Ep	1400	700	600	1.6	4	20	Pli	1.6
												Sx (others)	0.8
1061983	ESSF mv4	05	Bl, Sx, Pli		At, Acb, Ep	400	200	200	1.6	4	20	Pli	1.6
												Sx (others)	0.8
1061984	ESSF mv4	Complex 1 (1200 target mixed with 1000 target)	Bl, Sx, Pli	Sb	At, Acb, Ep	1100	600	500	1.6	4	20	Pli	1.2
		01 or 04, mixed with 02, 03										Sx (others)	0.6
1061985	ESSF mv4	Complex 2 (1200 target mixed with 400 target))	Bl, Sx, Pli		At, Acb, Ep	800	350	300	1.6	4	20	Pli	1.2
		01 or 04 mixed with 05										Sx (others)	0.6
1061986	ESSF mv4	Complex 3 (1000 target mixed with 400 target)	Bl, Sx, Pli	Sb	At, Acb, Ep	400	200	200	1.6	4	20	Pli	1.2
		02 or 03 mixed with 05										Sx (others)	0.6
1061987	ESSF wc3	01	Bl, Sx	Pli ⁱⁱ	At, Acb, Ep	1200	700	600	1.6	4	20	Pli	1.6
												Sx (others)	0.8
1061988	ESSF wc3	02	Bl, Sx	Pli ⁱⁱ	At, Acb, Ep	1000	500	400	1.6	4	20	Pli	1.2
												Sx (others)	0.6
1061989	ESSF wc3	03	Bl, Sx	Pli ⁱⁱ	At, Acb, Ep	400	200	200	1.6	4	20	Pli	0.6
												Bl, Sx	0.6
1061990	ESSF wc3	Complex 1 (1200 target mixed with 1000 target)	Bl, Sx, Pli ⁱⁱ	Sb	At, Acb, Ep	1100	600	500	1.6	4	20	Pli	1.2
		01 mixed with 02										Sx (others)	0.6

Conifer Stocking Standards – Even aged.

Stand. ID	BEC Zone/SZ	Site Series	Pref (p)	Acc (a)	Broad leaf ^c	Target	Min (pa)	Min (p)	MITD m	RGD yrs	FG yrs	Crop Tree Height	
												Species	(m)
1061992	ESSF wc3	Complex 2 (1200 target mixed with 400 target))	Bl, Sx, Pli ⁱⁱ	Sb	At, Acb, Ep	800	350	300	1.6	4	20	Pli	1.2
		01 mixed with 03										Sx (others)	0.6
1061994	ESSF wc3	Complex 3 (1000 target mixed with 400 target)	Bl, Sx, Pli ⁱⁱ		At, Acb, Ep	400	200	200	1.6	4	20	Pli	1.2
		02 mixed with 03										Bl, Sx	0.6
1061997	ESSF wk2	01, 02, 03	Bl, Sx, Pli ⁱⁱ		At, Acb, Ep	1200	700	600	1.6	4	20	Pli	1.6
												Sx (others)	0.8
1062000	ESSF wk2	04, 05	Bl, Sx, Pli ⁱⁱ		At, Acb, Ep	1200	700	600	1.6	4	20	Pli	1.6
												Sx (others)	0.8
1062002	ESSF wk2	06	Bl, Sx, Pli ⁱⁱ		At, Acb, Ep	1000	500	400	1.2	4	20	Pli	1.2
												Sx (others)	0.6
1062006	ESSF wk2	Complex 1 (1200 target mixed with 1000 target)	Bl, Sx, Pli ⁱⁱ		At, Acb, Ep	1100	600	500	1.6	4	20	Pli	1.2
		01, 02, 03, 04, or 05 mixed with 06										Sx (others)	0.6
1062007	SBS wk2	01, 03	Pli, Sx, Bl	Acb, At, Ep	Ep	1200	700	600	2.0	4	20	Pli	2.0
												Sx (others)	1.0
1062008	SBS wk2	02	Pli	Sx, Bl, At, Acb		1000	500	400	2.0	4	20	Pli	1.4
												Sx (others)	0.8
1062009	SBS wk2	04	Pli, Sx	Sb, Bl, At		1200	700	600	2.0	4	20	Pli	2.0
												Sx (others)	1.0
1062011	SBS wk2	05	Pli, Sx, Bl	Acb, At	Ep	1200	700	600	1.6	4	20	Pli	2.0
												Sx (others)	1.0
1062012	SBS wk2	06	Pli, Sx, Bl	Acb, At		1000	500	400	1.6	4	20	Pli	1.4
												Sx (others)	0.8

Conifer Stocking Standards – Even aged.

Stand. ID	BEC Zone/SZ	Site Series	Pref (p)	Acc (a)	Broad leaf ^c	Target	Min (pa)	Min (p)	MITD m	RGD yrs	FG yrs	Crop Tree Height	
												Species	(m)
1062013	SBS wk2	Complex 1 (1200 target mixed with 1000 target)	Pli, Sx	Sb Bl, Acb, At		1100	600	500	1.6	4	20	Pli	1.4
												Other	0.8

Broadleaf Stocking Standards

Stand. ID	BEC Zone/SZ	Site Series	Pref (p)	Acc (a)	Broad leaf ^c	Target	Min (pa)	Min (p)	MITD m	RGD yrs	FG yrs	Crop Tree Height	
												Species	(m)
1062300	BWBS all	all	Acb, At	Sx, Pl, Sb	Ep	3500	2000	1700	1.4	4	20	Pli, At, Acb	2.0
												Sx (others)	1.0

Riparian/moose/high range use Stocking Standards

Stand. ID	BEC Zone/SZ	Site Series	Pref (p)	Acc (a)	Broad leaf ^c	Target	Min (pa)	Min (p)	MITD m	RGD yrs	FG yrs	Crop Tree Height	
												Species	(m)
1062301	All BEC zones	all	Pli, Sx	Sb Bl, Acb, At		1200	500	400	1.0	4	20	Pli	1.4
												Sx (others)	0.8

Multistory Stocking standards

Stand. ID	BEC Zone/SZ	Site Series	Pref (p)	Acc (a)	Broad leaf ^c	Layer	Target	Min (pa)	Min (p)	MITD m	RGD yrs	FG yrs	Crop Tree Height		
													Species	(m)	
1062014	All Multistory SU's	ESSF-All site series (even age target = 1200)	Bl Sx Pli	Sb	At, Acb, Ep	1	600	300	250	N/A	4	20	All	N/A	
			Bl Sx Pli	Sb	At, Acb, Ep	2	800	400	300	1.6			All	N/A	
			Bl Sx Pli	Sb	At, Acb, Ep	3	1000	500	400	1.6			All	N/A	
			Bl Sx Pli	Sb	At, Acb, Ep	4	1200	700	600	1.6			All	0.80	
1062015		ESSF-All site series (even age target = 1000)	Bl Sx PLI	Sb	At, Acb, Ep	1	400	200	200	N/A	4	20	All	N/A	
			Bl Sx PLI	Sb	At, Acb, Ep	2	600	300	250	1.6			All	N/A	
			Bl Sx PLI	Sb	At, Acb, Ep	3	800	400	300	1.6			All	N/A	
			Bl Sx PLI	Sb	At, Acb, Ep	4	1000	500	400	1.6			All	0.80	
1062010			ESSF-All site series (even age target = 400)	Bl Sx Pli	Sb	At, Acb, Ep	1	200	100	100	N/A	4	20	All	N/A
				Bl Sx Pli	Sb	At, Acb, Ep	2	300	125	125	1.6			All	N/A
				Bl Sx Pli	Sb	At, Acb, Ep	3	300	150	150	1.6			All	N/A
				Bl Sx Pli	Sb	At, Acb, Ep	4	400	200	200	1.6			All	0.80

Stand. ID	BEC Zone/SZ	Site Series	Pref (p)	Acc (a)	Broad leaf ^c	Layer	Target	Min (pa)	Min (p)	MITD m	RGD yrs	FG yrs	Crop Tree Height	
													Species	(m)
1062016	All Multistory SU's	BWBS/SBS-All site series (even age target = 1200)	Sx Pl Bl	Sb, At, Acb	Ep	1	600	300	250	N/A	4	20	All	N/A
			Sx Pl Bl	Sb, At, Acb	Ep	2	800	400	300	1.6			All	N/A
			Sx Pl Bl	Sb, At, Acb	Ep	3	1000	500	400	1.6			All	N/A
			Sx Pl Bl	Sb, At, Acb	Ep	4	1200	700	600	1.6			All	0.80
1062017		BWBS/SBS-All site series (even age target = 1000)	Sx Pl Bl	Sb, At, Acb	Ep	1	400	200	200	N/A	4	20	All	N/A
			Sx Pl Bl	Sb, At, Acb	Ep	2	600	300	250	1.6			All	N/A
			Sx Pl Bl	Sb, At, Acb	Ep	3	800	400	300	1.6			All	N/A
			Sx Pl Bl	Sb, At, Acb	Ep	4	1000	500	400	1.6			All	0.80
1062018		BWBS/SBS-All site series (even age target = 400)	Sx Pl Bl	Sb, At, Acb	Ep	1	200	100	100	N/A	4	20	All	N/A
			Sx Pl Bl	Sb, At, Acb	Ep	2	300	125	125	1.6			All	N/A
			Sx Pl Bl	Sb, At, Acb	Ep	3	300	150	150	1.6			All	N/A
			Sx Pl Bl	Sb, At, Acb	Ep	4	400	200	200	1.6			All	0.80

Footnotes:

C Broadleaf species that will apply where other management objective applies and must be identified in a site plan and where it applies. Examples include riparian management, wildlife management, visual management, wildfire protection management, visual screening or other management objectives identified by government. A free growing height of 2 m will be applied.

Appendix B – FSP maps

s

Please refer to maps attached in FSP tracker.

Appendix C – TFL 48 and TSA 40 FDU's Non-Spatial Old Growth Order Targets by Landscape Unit and BEC Variant

FDU	Landscape Unit	Biodiversity Emphasis	Biogeoclimatic Variant	Dominant Tree Type	Age of Old Forest	Target %	2/3 rd Target
TSA 40	KOBES	Intermediate	BWBSmw	Dec	>100	>13	
				Con	>140	>11	
			BWBSwk2	Dec	>100	>13	
				Con	>140	>11	
TFL48	BOUCHER	Low	BWBSmw	Dec	>100	>13	>4.3
				Con	>140	>11	>3.7
			BWBSwk1	Dec	>100	>13	>4.3
				Con	>140	>11	>3.7
SBSwk2		>250	>9	>3			
TFL48	BURNT-LEMORAY	Intermediate	BWBSmw	Dec	>100	>13	
				Con	>140	>11	
			ESSFmv2		>250	>9	
			ESSFwc3		>250	>19	
			ESSFwk2		>250	>19	
SBSwk2		>250	>9				
TFL48	CARBON	Intermediate	BWBSmw	Dec	>100	>13	
				Con	>140	>11	
			ESSFmv2		>250	>9	
			ESSFwc3		>250	>19	
			ESSFwk2		>250	>19	
SBSwk2		>250	>9				
TFL48	DUNLEVY	High	BWBSmw	Dec	>100	>19	
				Con	>140	>16	
			BWBSwk2	Dec	>100	>19	
				Con	>140	>16	
ESSFmv4		>250	>13				
TFL48	EAST PINE	Low	BWBSmw	Dec	>100	>13	>4.3
				Con	>140	>11	>3.7
TFL48	GETHING	Low	BWBSmw	Dec	>100	>13	>4.3
				Con	>140	>11	>3.7
			ESSFmv2		>250	>9	>3
SBSwk2		>250	>9	>3			
TFL48	HIGHHAT	Low	BWBSmw	Dec	>100	>13	>4.3
				Con	>140	>11	>3.7
			BWBSwk1	Dec	>100	>13	>4.3
				Con	>140	>11	>3.7
			ESSFmv2		>250	>9	>3
			ESSFwc3		>250	>19	>6.3
ESSFwk2		>250	>19	>6.3			

FDU	Landscape Unit	Biodiversity Emphasis	Biogeoclimatic Variant	Dominant Tree Type	Age of Old Forest	Target %	2/3 rd Target
			SBSwk2		>250	>9	>3
TFL48	MARTIN CREEK	Low	BWBSmw	Dec	>100	>13	>4.3
				Con	>140	>11	>3.7
			BWBSwk1	Dec	>100	>13	>4.3
				Con	>140	>11	>3.7
			ESSFmv2		>250	>9	>3
SBSwk2		>250	>9	>3			
TFL48	WOLVERINE	Intermediate	BWBSmw	Dec	>100	>13	
				Con	>140	>11	
			BWBSwk1	Dec	>100	>13	
				Con	>140	>11	
			ESSFmv2		>250	>9	
			ESSFwc3		>250	>19	
			ESSFwk2		>250	>19	
SBSwk2		>250	>9				
TFL48	PINE RIVER	Low	BWBSmw	Dec	>100	>13	>4.3
				Con	>140	>11	>3.7
			BWBSwk1	Dec	>100	>13	>4.3
				Con	>140	>11	>3.7
			ESSFmv2		>250	>9	>3
SBSwk2		>250	>9	>3			

Appendix D – Cutting Permit / TSL list

Canfor CP list

LICENCE	CP
TFL48	217
TFL48	218
TFL48	269
TFL48	293
TFL48	294
TFL48	367
TFL48	405
TFL48	518
TFL48	534
TFL48	534
TFL48	535
TFL48	535
TFL48	536
TFL48	536
TFL48	537
TFL48	537
TFL48	539
TFL48	819
TFL48	821
TFL48	823
TFL48	824
PA13 - TFL48	A85101
PA13 - TFL48	A85101
PA13 - TFL48	A85101
PA13 - TFL48	A85115
PA13 - TFL48	A85115
PA13 - TFL48	A85115
PA13 - TFL48	A85115
PA13 - TFL48	A85115
PA13 - TFL48	A85259
PA13 - TFL48	A85259
TFL48	D02

Chetwynd Mechanical Pulp and Louisiana Pacific Canada

Licensee	License	CP/TSL
Chetwynd Mechanical Pulp	A70730	AU1066
Chetwynd Mechanical Pulp	A70730	AU1067

Chetwynd Multi Licensee FSP

Chetwynd Mechanical Pulp	A70730	AU1309
Chetwynd Mechanical Pulp	A70730	AU1310
Louisiana - Pacific Canada Ltd.	A60064	GE5214
Louisiana - Pacific Canada Ltd.	A60064	GE5215
Louisiana - Pacific Canada Ltd.	A60064	GE5257
Louisiana - Pacific Canada Ltd.	A60064	GE5259
Louisiana - Pacific Canada Ltd.	A60064	GE5267
Louisiana - Pacific Canada Ltd.	A60064	GE5273
Louisiana - Pacific Canada Ltd.	A60064	GE5274
Louisiana - Pacific Canada Ltd.	A60064	GE5275
Louisiana - Pacific Canada Ltd.	A60064	GE5276
Louisiana - Pacific Canada Ltd.	A60064	GE5674
Louisiana - Pacific Canada Ltd.	A60064	GE5678
Louisiana - Pacific Canada Ltd.	A60064	GE5679
Louisiana - Pacific Canada Ltd.	A60064	GE5683
Louisiana - Pacific Canada Ltd.	A60064	GE5684
Louisiana - Pacific Canada Ltd.	A60064	GE5685
Louisiana - Pacific Canada Ltd.	A60064	GE5686
Louisiana - Pacific Canada Ltd.	A60064	GE5703
Louisiana - Pacific Canada Ltd.	A60064	GE5704
Louisiana - Pacific Canada Ltd.	A60064	GE5820
Louisiana - Pacific Canada Ltd.	A60064	GE5845
Louisiana - Pacific Canada Ltd.	A60064	GE5846
Louisiana - Pacific Canada Ltd.	A60064	GE5847
Louisiana - Pacific Canada Ltd.	A60064	GE5848
Louisiana - Pacific Canada Ltd.	A60064	GE5849
Louisiana - Pacific Canada Ltd.	A60064	GE5258
Louisiana - Pacific Canada Ltd.	A60064	GE5261
Louisiana - Pacific Canada Ltd.	A60064	GE5263
Louisiana - Pacific Canada Ltd.	A60064	GE5268
Louisiana - Pacific Canada Ltd.	A60064	GE5270
Louisiana - Pacific Canada Ltd.	A60064	GE5271
Louisiana - Pacific Canada Ltd.	A60064	GE5272
Louisiana - Pacific Canada Ltd.	A60064	GE5668
Louisiana - Pacific Canada Ltd.	A60064	GE5669
Louisiana - Pacific Canada Ltd.	A60064	GE5670
Louisiana - Pacific Canada Ltd.	A60064	GE5671
Louisiana - Pacific Canada Ltd.	A60064	GE5675
Louisiana - Pacific Canada Ltd.	A60064	GE5680
Louisiana - Pacific Canada Ltd.	A60064	GE5815
Louisiana - Pacific Canada Ltd.	A60064	GE5260
Louisiana - Pacific Canada Ltd.	A60064	GE5262
Louisiana - Pacific Canada Ltd.	A60064	GE5264

Louisiana - Pacific Canada Ltd.	A60064	GE5265
Louisiana - Pacific Canada Ltd.	A60064	GE5269
Louisiana - Pacific Canada Ltd.	A60064	GE5306
Louisiana - Pacific Canada Ltd.	A60064	GE5663
Louisiana - Pacific Canada Ltd.	A60064	GE5665
Louisiana - Pacific Canada Ltd.	A60064	GE5666
Louisiana - Pacific Canada Ltd.	A60064	GE5667
Louisiana - Pacific Canada Ltd.	A60064	GE5672
Louisiana - Pacific Canada Ltd.	A60064	GE5673
Louisiana - Pacific Canada Ltd.	A60064	GE5676
Louisiana - Pacific Canada Ltd.	A60064	GE5826
Louisiana - Pacific Canada Ltd.	A60064	GE5842

BCTS TSL and Road list

TSL#	Block#	Operating Area	Mgmt Unit	Associated Roads (km)
A92156	1,2,3	Mast Creek	TFL	Existing
A95005	1&2	Highhat	TFL	A95005-001-A,B,C,D (2km)
A95007	1,2,3,4	Caron	TFL	Existing
A95006	1,2	Highhat	TFL	A95006-002-C (1km)
A94839	1	Caron Creek	TFL	Existing
A95002	1&2	Falling Creek	TFL	A95002-002-B (1km)
A95001	3	Gething Creek	TFL	Existing
A94845	T5136	Two Creeks Rd	TFL	Existing
A95012	1	Gething Creek	TFL	Existing
A95003	1,2,3,5	Brozian	TFL	1&2-Existing, A95003-003-A {0.7km}, A95003-005-A{0.2km}
A94202	1,2,3,4	Redwillow R	TSA	1,2,4 -Existing; A94202-003-A{0.1km}
A94203	1,2	Redwi/low R	TSA	Existing
A94201	1	RedWillow	TSA	Existing
A95009	2{T4380}	Kwoen Hills	TFL	Existing
A95008	1{T4160}	Martin Creek	TFL	A95008-001-A {2km}
A95008	2{T4432}	Martin Creek	TFL	A95008-002-A {1km}
TA0427	T4433	Martin Creek	TFL	Existing
TA0417	Ca/5	Ca/lazon Creek	TSA	Existing
TA0417	Ca/6	Callazon Creek	TSA	TA0417-006-A {0.5km}
TA0417	Ca/10	Ca/lazon Creek	TSA	TA0417-010-A {0.5km}
TA0417	Ca/2	Callazon Creek	TSA	Existing
TA0417	Call	Ca/lazon Creek	TSA	Existing
TA0417	Ca/4	Ca/lazon Creek	TSA	TA0417-004-A {0.5km}
TA0416	Call	Callazon Creek	TSA	TA0417-007-A {2.5km}
TA0417	Ca/9	Callazon Creek	TSA	Ta0417-009-A {0.6km}

TA0428	6831	Rainey Creek	TSA	Existing
TA0407	RW40	Redwillow	TSA	Existing
TA0412	RW66	Redwi/low	TSA	Existing
TA0408	RW38 39	Redwi/low	TSA	Existing
TA0408	RW41	Redwillow	TSA	Existing
TA0408	RW43	Redwillow	TSA	Existing
TA0409	RW47	Redwillow	TSA	Existing
TA0411	RW67	Redwillow	TSA	Existing
TA0410	RW54 55	Redwillow	TSA	Existing
TA0410	RW51	Redwi/low	TSA	Existing
TA0415	RW68	Redwil/ow	TSA	Existing
TA0415	RW92	Redwillow	TSA	Existing
TA0426	RW87	Redwillow	TSA	Existing
TA0426	RW32	Redwillow	TSA	Existing
TA0414	RW45	Redwi/low	TSA	Existing
TA0414	RW53	Redwi/low	TSA	Existing
TA0409	RW46	Redwillow	TSA	Existing
A84288	1,2	North Monios	TSA	Existing
A84289	1,2	Del Rio	TSA	Existing
A84290	1	Del Rio	TSA	Existing
A85513	1	BearMtn	TSA	Existing
A91195	1	Sundown Crk	TSA	Existing
A91199	1	Sundown Crk	TSA	Existing
A92040	1,3	Redwillow	TSA	Exsiting
A92040	2	Redwillow	TSA	A92040-002-B{0.4km)
A92253	1	Rainey Creek	TSA	A92253-001-A(1.1km)
A92253	2	Rainey Creek	TSA	A92253-002-A(1.0km)
A92301	1	Sunderman Crk	TSA	Existing

Appendix E – Road Permit list

Canfor Road Permit List

TFL 48		
R00074	Johnson - 11 Mile	
R01120	Mt. Goddrich	
R01122	Lower Burnt	
R01201	Ranfire	
R01592	Upper Burnt	
R01598	Lone Prairie	
R01599	Westcoast Rd	
R03277	Falling Creek	
R05821	Club Creek	
R06030	Burns	
R06037	11 Mile	
R06203	Caron #1	
R06817	Highhat	
R06880	Johnson Creek	
R07792	Itis	
R07841	Track Creek	
R08724	Burns	
R08961	East Carbon	
R08964	1A	
R09061	Wolverine	
R09315	Chip Creek	
R09566	24603	
R09707	Bluff Creek	
R09710	Caron #2	
R09849	Kwoen Martin Creek	
R09955	Wolverine	
R10239	Elizabeth Creek, Martin Creek	
R11313	T2011	
R12000	Dunlevy	
R12047	Hasler	
R12603	Table Creek	
R12604	Utah Rd	
R13288		20603
R13605	Gething Rd	
R13628	Little Johnson	
R13629	Beattie Creek	
R14639		
R19184	Highhat	
R19448	A89918 Access Little Johnson	
R19573	1A Road	

R22132 Caron #3

R22335 Caron #4

A57332

R17581

R15027

A18151

R06201 Bulley Road

R08190 Jackfish FL

R12218 Oetata

R18785#2

Chetwynd Mechanical Pulp and Louisiana Pacific Canada

Licensee	License	RP
Louisiana - Pacific Canada Ltd.	A60064	R04677
Louisiana - Pacific Canada Ltd.	A60064	R04678
Louisiana - Pacific Canada Ltd.	A60064	R08080
Louisiana - Pacific Canada Ltd.	A60064	R08901
Louisiana - Pacific Canada Ltd.	A60064	R08903
Louisiana - Pacific Canada Ltd.	A60064	R09310
Louisiana - Pacific Canada Ltd.	A60064	R09311
Louisiana - Pacific Canada Ltd.	A60064	R10883
Louisiana - Pacific Canada Ltd.	A60064	R10886
Louisiana - Pacific Canada Ltd.	A60064	R10887
Louisiana - Pacific Canada Ltd.	A60064	R11457
Louisiana - Pacific Canada Ltd.	A60064	R11536
Louisiana - Pacific Canada Ltd.	A60064	R11596
Louisiana - Pacific Canada Ltd.	A60064	R11755
Louisiana - Pacific Canada Ltd.	A60064	R12124
Louisiana - Pacific Canada Ltd.	A60064	R12202
Louisiana - Pacific Canada Ltd.	A60064	R12203
Louisiana - Pacific Canada Ltd.	A60064	R12205
Louisiana - Pacific Canada Ltd.	A60064	R12206
Louisiana - Pacific Canada Ltd.	A60064	R12207
Louisiana - Pacific Canada Ltd.	A60064	R12208
Louisiana - Pacific Canada Ltd.	A60064	R12279
Louisiana - Pacific Canada Ltd.	A60064	R12280
Louisiana - Pacific Canada Ltd.	A60064	R12281
Louisiana - Pacific Canada Ltd.	A60064	R12282
Louisiana - Pacific Canada Ltd.	A60064	R12283
Louisiana - Pacific Canada Ltd.	A60064	R12284

Louisiana - Pacific Canada Ltd.	A60064	R12285
Louisiana - Pacific Canada Ltd.	A60064	R12287
Louisiana - Pacific Canada Ltd.	A60064	R12329
Louisiana - Pacific Canada Ltd.	A60064	R12287
Louisiana - Pacific Canada Ltd.	A60064	R12329
Louisiana - Pacific Canada Ltd.	A60064	R13080
Louisiana - Pacific Canada Ltd.	A60064	R13234
Louisiana - Pacific Canada Ltd.	A60064	R13248
Louisiana - Pacific Canada Ltd.	A60064	R13690
Louisiana - Pacific Canada Ltd.	A60064	R13864
Louisiana - Pacific Canada Ltd.	A60064	R14937
Louisiana - Pacific Canada Ltd.	A60064	R15704
Louisiana - Pacific Canada Ltd.	A60064	R15757
Louisiana - Pacific Canada Ltd.	A60064	R15918
Louisiana - Pacific Canada Ltd.	A60064	R16134
Louisiana - Pacific Canada Ltd.	A60064	R16184
Louisiana - Pacific Canada Ltd.	A60064	R16328
Louisiana - Pacific Canada Ltd.	A60064	R16813
Louisiana - Pacific Canada Ltd.	A60064	R22050
Chetwynd Mechanical Pulp	A70730	R11685
Chetwynd Mechanical Pulp	A70730	R12108
Chetwynd Mechanical Pulp	A70730	R12286
Chetwynd Mechanical Pulp	A70730	R12388
Chetwynd Mechanical Pulp	A70730	R13319
Chetwynd Mechanical Pulp	A70730	R13903
Chetwynd Mechanical Pulp	A70730	R14147
Chetwynd Mechanical Pulp	A70730	R14210
Chetwynd Mechanical Pulp	A70730	R14223
Chetwynd Mechanical Pulp	A70730	R14242
Chetwynd Mechanical Pulp	A70730	R14262
Chetwynd Mechanical Pulp	A70730	R14550
Chetwynd Mechanical Pulp	A70730	R14555
Chetwynd Mechanical Pulp	A70730	R15548
Chetwynd Mechanical Pulp	A70730	R17040
Chetwynd Mechanical Pulp	A70730	R17109
Chetwynd Mechanical Pulp	A70730	R17131
Chetwynd Mechanical Pulp	A70730	R17476

Appendix F – BCTS declares areas

TSL#	Block#	Operating Area	Mgmt Unit	Associated Roads (km)
A92156	1,2,3	Mast Creek	TFL	Existing
A95005	1&2	Highhat	TFL	A95005-001-A,B,C,D (2km)
A95007	1,2,3,4	Caron	TFL	Existing
A95006	1,2	Highhat	TFL	A95006-002-C (1km)
A94839	1	Caron Creek	TFL	Existing
A95002	1&2	Falling Creek	TFL	A95002-002-B (1km)
A95001	3	Gething Creek	TFL	Existing
A94845	T5136	Two Creeks Rd	TFL	Existing
A95012	1	Gething Creek	TFL	Existing
A95003	1,2,3,5	Brozian	TFL	1&2-Existing, A95003-003-A {0.7km}, A95003-005-A{0.2km}
A94202	1,2,3,4	Redwillow R	TSA	1,2,4 -Existing; A94202-003-A{0.1km}
A94203	1,2	Redwi/low R	TSA	Existing
A94201	1	RedWillow	TSA	Existing
A95009	2{T4380}	Kwoen Hills	TFL	Existing
A95008	1{T4160}	Martin Creek	TFL	A95008-001-A {2km}
A95008	2{T4432}	Martin Creek	TFL	A95008-002-A {1km}
TA0427	T4433	Martin Creek	TFL	Existing
TA0417	Ca/5	Ca/lazon Creek	TSA	Existing
TA0417	Ca/6	Callazon Creek	TSA	TA0417-006-A {0.5km}
TA0417	Ca/10	Ca/lazon Creek	TSA	TA0417-010-A {0.5km}
TA0417	Ca/2	Callazon Creek	TSA	Existing
TA0417	Call	Ca/lazon Creek	TSA	Existing
TA0417	Ca/4	Ca/lazon Creek	TSA	TA0417-004-A {0.5km}
TA0416	Call	Callazon Creek	TSA	TA0417-007-A {2.5km}
TA0417	Ca/9	Callazon Creek	TSA	Ta0417-009-A {0.6km}
TA0428	6831	Rainey Creek	TSA	Existing
TA0407	RW40	Redwillow	TSA	Existing
TA0412	RW66	Redwi/low	TSA	Existing
TA0408	RW38 39	Redwi/low	TSA	Existing
TA0408	RW41	Redwillow	TSA	Existing
TA0408	RW43	Redwillow	TSA	Existing
TA0409	RW47	Redwillow	TSA	Existing
TA0411	RW67	Redwillow	TSA	Existing
TA0410	RW54 55	Redwillow	TSA	Existing
TA0410	RW51	Redwi/low	TSA	Existing
TA0415	RW68	Redwil/ow	TSA	Existing
TA0415	RW92	Redwillow	TSA	Existing
TA0426	RW87	Redwillow	TSA	Existing

TA0426	RW32	Redwillow	TSA	Existing
TA0414	RW45	Redwi/low	TSA	Existing
TA0414	RW53	Redwi/low	TSA	Existing
TA0409	RW46	Redwillow	TSA	Existing
A84288	1,2	North Monios	TSA	Existing
A84289	1,2	Del Rio	TSA	Existing
A84290	1	Del Rio	TSA	Existing
A85513	1	BearMtn	TSA	Existing
A91195	1	Sundown Crk	TSA	Existing
A91199	1	Sundown Crk	TSA	Existing
A92040	1,3	Redwillow	TSA	Exsiting
A92040	2	Redwillow	TSA	A92040-002-B{0.4km}
A92253	1	Rainey Creek	TSA	A92253-001-A(1.1km)
A92253	2	Rainey Creek	TSA	A92253-002-A(1.0km)
A92301	1	Sunderman Crk	TSA	Existing