

2015/10/14

Upper Clearwater

- layout commenced

- meeting w/ Trevor G in mid-Nov.

- addressing faribaw, hydrology + visuals

? O&M time? act of good faith

Rob + Trevor^{group} (Oct 2):

entire informal group except Frank .. Polly Howe, Trevor, Tam + Gav Briggs, Tam Nidson

"prefer Eric - not there unless group needs him there" Ryan Papp

Eric read 10-14 page letter written by lawyer, to 4 ministers

letter mostly background info (guiding principles), values, memorandum

Page |

Ride not concerned about letter (Ron W6 Action Committee)

- where does Eric fit in picture

Geo. Briggs - historical perspective

Ryan Papp - described agency residents, but no 'proof', documentation

Rolly Nave - spoke re-water licenses, quantity, timing, flow

Tay Briggs - referral groups has been engaged but not getting responses (disagree)

Trevor - mentioned Area 6 but didn't dwell on it. → "write packet depending on how we
move forward"

Rob - talked about FRPA; how description

- engage, provide reasonable accommodation; not able to decide No (AN)

- what group wants to see moving forward.

- Guiding Principles aren't legal, but if it results in engagement - OK

Op. areas: not legally binding, but negotiated

Rob leaving it up to Cambr to take next steps; want us involved?

OBMA trade has potential - talk to Ron.

- relationship would benefit

- ecological anthropomorphism

FPS complaint - Glen Pilling - may/may not lead to final report.

Cambr - possibly (corp) for 2 yrs STI

Canadian Forest Products Ltd.

Vavenby Division



Submission Copy
**FOREST STEWARDSHIP PLAN
2006**

Dated for reference September 29, 2006

v. 3.42

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1 INTERPRETATION

1.1 In this Forest Stewardship Plan:

“**Agreements**” means the Tenures listed in Table 1.

“**Agreement holders**” means the companies and licenses listed in Table 2.

“**Commencement of Term**” means the date the Term of this FSP begins, as specified in Paragraph 2.3.

“**FDU**” means a Forest Development Unit as defined in the Forest Planning and Practices Regulation B.C. Reg. 14/2004 consolidated to March 18, 2005.

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

“**FPPR**” means the Forest Planning and Practices Regulation, effective January 31, 2004, B.C. Reg. 14/2004 and as amended up to BC Reg 102/2005.

“**FRPA**” means the *Forest and Range Practices Act*, RSBC 2002, c. 69, as amended to 31 Mar 2005 (BC Reg 38/05).

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

“**KLRMP**” means the Kamloops Land and Resource Management Plan.

“**Order**” means the Order of the Minister of Agriculture and Lands amending an Order dated January 23, 1996 that declared the Kamloops Land and Resource Management Plan to be a Higher Level Plan; dated January 23, 2006.

“**Survival**” (of a species) means the continuation of life or existence of a species not individuals.

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

Small scale salvage harvest areas are not considered in any forest cover calculations within this FSP.

- 1.2 In this FSP, the singular includes the plural and the plural includes the singular, unless the context indicates otherwise.
- 1.3 The provisions of this FSP do not apply to the holders of this FSP when carrying out a forest practice or activity that is in relation to any program funded by the provincial or federal government.
- 1.4 If an objective for which a result or strategy is included under this FSP is cancelled, the result or strategy under this FSP pertaining to that objective is no longer applicable effective the date of cancellation of the objective.
- 1.5 Without limiting the other provisions of this Part, this FSP does not apply to timber harvesting, road construction or related activities undertaken by or for the holders of this FSP if and to the extent the government, with the consent of the holders of this FSP, expressly authorizes such activities to be undertaken in a manner that differs from the requirements of this FSP.



2 DATE OF SUBMISSION, COMMENCEMENT OF TERM & TERM OF THE FSP

- 2.1 The date of submission of this Forest Stewardship Plan (this "FSP") is September 29, 2006.
- 2.2 Subject to Paragraph 2.4, the Term of this FSP will be 5 years from the Commencement of Term.
- 2.3 The Commencement of Term for this FSP is _____

3 APPLICATION OF THE FOREST STEWARDSHIP PLAN

3.1 This FSP applies to the Agreement Holders and Agreements indicated in the following table:

Table 1.

Agreement Holder	Agreement
Canadian Forest Products Ltd.	FL A18688
Canadian Forest Products Ltd.	TFL 18

- 3.2 For the purposes of section 197 (4), (5), and (7) of the FRPA,
 - a. the results, strategies, measures and stocking requirements of this FSP apply to all new cutting permits issued after the Commencement of Term of this FSP
 - b. the results, strategies and measures of this FSP apply to each road that is the subject of a road permit granted to an Agreement Holder if the road permit was granted before the approval of this FSP, and is still in effect on the date of approval of this FSP.
 - c. the stocking standards in this FSP apply to all cutblocks if the cutblock is the subject of a site plan prepared on or after the Commencement of Term of this FSP. As set out in FRPA Section 197(5), the stocking standards set out in this plan also apply to those blocks listed in Appendix A+.
 - d. The Chief Forester Standards for Seed Use will be used for all blocks subject to this FSP.

4 IDENTIFYING FOREST DEVELOPMENT UNITS

- 4.1 There are no forest development units in effect on the Date of Submission of this FSP.
- 4.2 The following table lists the new forest development units in this FSP:

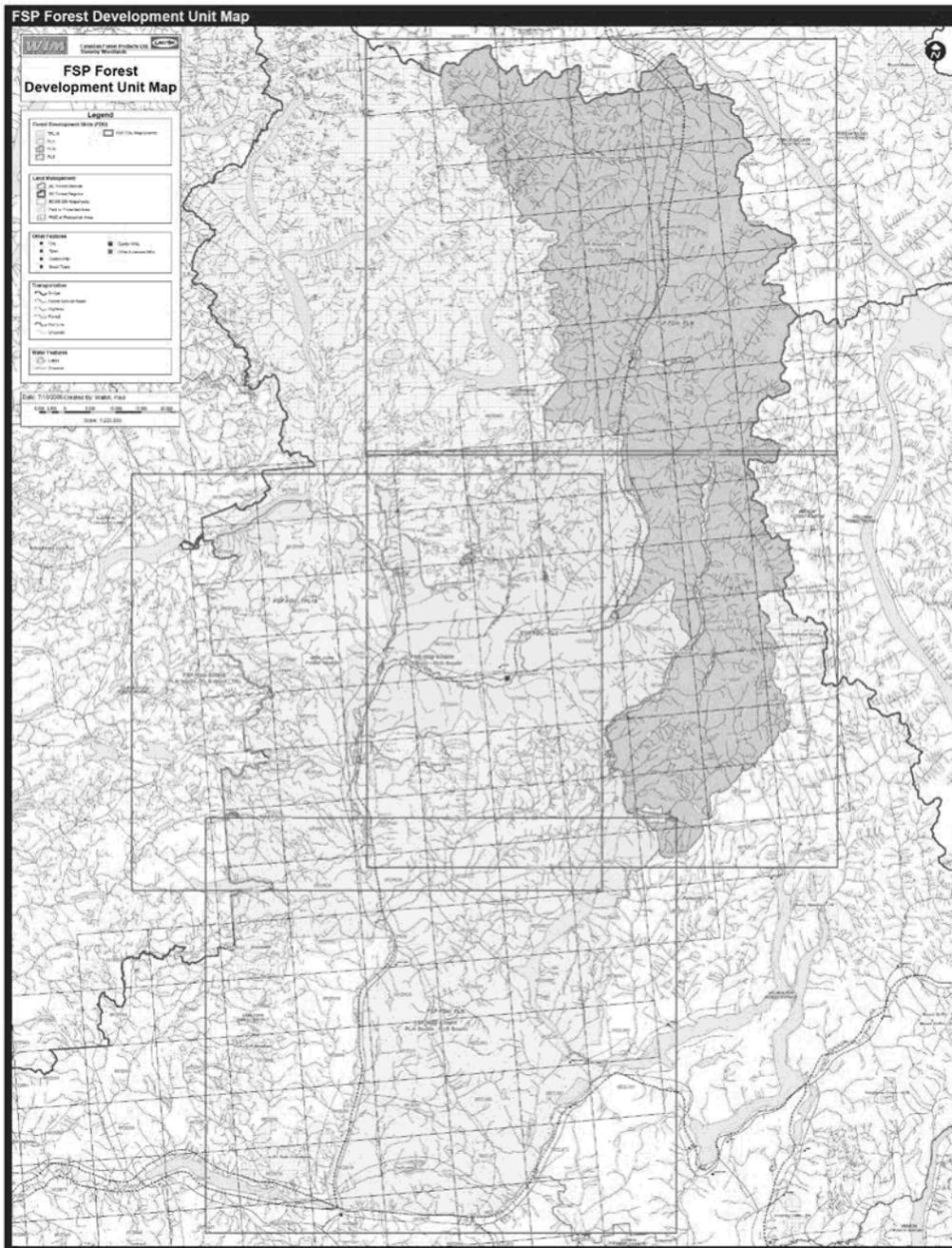
Table 2.

FDU Name	Agreement Holder	Agreement
FLN	Canadian Forest Products	FL A18688
FLS	Canadian Forest Products	FL A18688
FLK	Canadian Forest Products	FL A18688
TFL18	Canadian Forest Products	TFL 18

Figure 1 (next page) shows the boundaries of all FDU's in this FSP.



Figure 1.





- 4.3 The following areas, as indicated on the FSP content maps (1:100,000 scale), are included within the FDU's and are considered to have received the Minister's approval under the FRPA: areas referred to in section 196 (1) of the FRPA; areas referred to in section 196 (2) of the FRPA; cutting permits and road permits.
- 4.4 The maps included in this FSP show the location of the following items that were in effect on the date of submission:
- Ungulate winter range areas, wildlife habitat areas, fisheries sensitive watersheds, lakeshore management zones, scenic areas, L1 lakes, community watersheds, old growth management areas, areas where commercial timber harvesting is prohibited by an enactment.
 - The areas subject to an Agreement Holder's cutting permit or a road permit.

5 RESULTS AND STRATEGIES

5.1 Objective Set by Government; Order of the Minister of Agriculture and Lands, dated January 23, 2006 – FPC s.3

- 5.1.1 In relation to the objective set by government for Water Management (2.1.2 index #17) the results/strategies that apply to the areas of harvesting, road construction, mechanical site preparation, or broadcast burning operations, in each FDU are that the holder of this FSP will;
- at least 60 days prior to initiating harvesting, road construction, mechanical site preparation, or broadcast burning operations on a cutblock, provide the registered domestic water licensee with written notice of the planned activity, as long as that planned activity:
 - is within 200 meters upslope of the registered water licensee point of diversion,
 - For the purpose of this section "mechanical site preparation" means a site preparation method requiring the use of wheeled or tracked equipment.
 - For the purpose of this section "registered domestic water licensee" means a water licensee licensed for domestic use, having a licensed point of diversion as identified in Land and Water BC GIS coverage as it was 4 months or less before the ~~date of~~ submission of commencement of term this FSP, and updated annually thereafter.
- 5.1.2 In relation to the objective set by government for Riparian Management Areas (2.1.2.1 index #32) the results/strategies that apply are as set out in Section 5.4 of this FSP.
- 5.1.3 In relation to the objective set by government for Ecosystem Management (2.1.3 index #42) the results/strategies that apply are as set out in Sections 5.7.1 / 5.8.1 of this FSP.
- 5.1.4 In relation to the objective set by government for Biodiversity Emphasis Options (2.1.3.1 index #48) the results/strategies that apply are as set out in Section 5.3, Section 5.4, Section 5.7, and Section 5.8 of this FSP.
- 5.1.5 In relation to the objective set by government for Inland Fisheries (2.1.5 index #65) the results/strategies that apply to the holder of this FSP for road construction, maintenance, deactivation and timber harvesting in all FDU's are:
- As set out in Section 5.20 of this FSP with respect to recreation sites, and
 - The holder of this FSP will not construct permanent road within a zone subject to an order under Section 58(1) of FRPA, ~~unless~~



~~i. No other practicable option exists to provide road access for timber harvesting within the drainage system associated with the lake.~~

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5.1.6 In relation to the objective set by government for Range (2.1.10 index #120), and in addition to those results/strategies as set out in Section 6.2 of this FSP, the results/strategies that apply to the areas of silviculture activity in each FDU are:

~~a. Prior to the submission of a cut block for harvest authority approval the range tenure holder(s), as defined consistent with Section 6.2.1 a), will be contacted and offered an opportunity to provide recommendations regarding the block and road plan and proposed management actions.~~

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~~a.b. Where cattle grazing damage or artificially seeded range grass competition is identified as reducing plantation stocking or affecting the survival of seedlings, the holder of this FSP will:~~

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~~i. Make all reasonable efforts to meet with the range tenure holder responsible for the area and develop an agreement to manage any cattle or range use issues affecting seedling performance or plantation success, or~~

~~1. Where agreement cannot be reached, agreed actions are not carried out by the range tenure holder, or seedling survival is repeatedly affected by the activities of a range tenure holder,~~

~~a. The holder of this FSP will make the Designated Decision Maker aware of the issue, and~~

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~~a.i. if the issue remains unresolved after a review with the range tenure holder and designated decision maker, The holder of this FSP will conduct a silviculture survey of the block and provide that survey to the Ministry of Forests, consistent with Section 7.2.8 of this FSP.~~

5.1.7 In relation to the objective set by government for Wildlife (2.1.12 index #134) the results/strategies that apply to the areas of timber harvesting and road construction activity in each FDU are as set out in Section 5.3 of this FSP and,

a. Within FDU FLK, The holder of this FSP will participate, along with other participating forest licensees and agency representatives within the Kamloops Forest District, to identify for Wildlife Habitat Area designation,

i. The lesser of 3,300 ha or the amount present on the Commencement of Term, of crown land in the Kamloops Forest District, that meets the distribution and attributes set out in the background information document¹ for the Flammulated Owl for the Term of this FSP, and

ii. The lesser of 60 ha or the amount present on the Commencement of Term, of crown land in the Kamloops Forest District, that meets the distribution and attributes set out in the background information document for the "Interior" Western Screech Owl for the Term of this FSP.

iii. The lesser of 650 ha or the amount present on the Commencement of Term, of crown land in the Kamloops Forest District, that meets the distribution and

¹ Background Information for Wildlife Habitat for Species At Risk Objectives Under the Kamloops Land and Resource Management Plan, in the Kamloops Forest District; undated, downloaded June 8, 2006.



attributes set out in the background information document for the Lewis's Woodpecker for the Term of this FSP.

- iv. The lesser of 35 ha or the amount present on the Commencement of Term, of crown land in the Kamloops Forest District, that meets the distribution and attributes set out in the background information document for the Badger for the Term of this FSP.
 - v. The lesser of 120 ha or the amount present on the Commencement of Term, of crown land in the Kamloops Forest District, that meets the distribution and attributes set out in the background information document for the Spotted Bat for the Term of this FSP.
- b. If the participatory process outlined in 5.1.7 a does not occur, then the holder of this FSP will, within FDU FLK, ensure harvesting or road construction within areas of known occurrences, based on location information provided to the holder by the Ministry of Environment, will be consistent with the identified wildlife provisions as set out in the Accounts and Measures for Managing Identified Wildlife – v. 2004.
- c. Within FDU's FLN, FLS, and TFL18, no section 7 notices are in place for species at risk that apply to these FDU's and therefore the holder of this FSP has not specified results or strategies.

5.1.8 In relation to the objective set by government for Critical Deer Winter Range (2.1.12.1 index #142, #143 and #144) and subject to Section 5.1.8 b., the results/strategies that apply to the areas of timber harvesting in Critical Mule Deer Winter Range defined in Figure 4 of the KLRMP ~~the FSP content maps listed in Appendix B as it was on the date of the Order,~~ within FDU's FLK and FLS are;

- a. For the purpose of this section
 - i. "thermal cover" means the combination of topography and forest cover that provides those attributes necessary, as determined by a qualified registered professional, to assist mule deer in regulating body temperature during the winter months and
 - ii. For the purposes of this section and Section 5.1.9, "forest tenure agreement holders" are those major licensees whose operating activity overlaps critical mule deer winter range shared within Canfor's operating area.
- b. The Holder of this FSP will:
 - i. disperse their timber harvesting throughout the winter range and spread it out evenly over the rotation,
 - ii. ensure their timber harvesting and road construction operations do not result in a reduction of thermal cover below 25% of the crown forested landbase.
 - iii. Subject to retention limitations related to old growth, riparian areas, and wildlife trees as set out in section 5.4, 5.7, and 5.8 of this FSP, where practicable link areas of thermal cover together with suitable travel corridors,
 - iv. As determined by a qualified registered professional, practice uneven aged management where species composition, stand structure, site conditions, and regeneration objectives are suitable for implementation of that silviculture system,
 - v. Subject to sub-section 5.1.8 a iv. where uneven aged management is not practiced, utilize a clearcut system with openings less than 5 hectares as measured by the net area to reforest,



- c. Unless:
 - vi. agreement can not be reached with other forest tenure agreement holders on the distribution of habitat and timing of harvest as identified in sub-section 5.1.8 b.i through iii., then
 - vii. the holder of this FSP will ensure measurement of the distribution of habitat and harvest timing only on that portion of the General Management Zone – Critical Deer Winter Range that falls within the holders operating area, or
 - viii. where harvesting timber outside of the holders operating area, the holder will identify thermal cover retention consistent with 5.1.8 b ii within any cutblock planned for timber harvesting, or
 - ix. the felling and removing of trees is required to address trees that have been damaged by fire, insects, disease, or are at risk of damage, and the removal of those trees will not have a material adverse affect on attributes important to Mule Deer thermal cover or forage production.

5.1.9 In relation to the objective set by government for Critical Moose Winter Range (2.1.12.2 index #158 and #159), and in addition to those results/strategies as set out in Section 5.4 of this FSP, the results/strategies that apply to the areas of harvesting and road construction in each FDU are;

- a. With respect to thermal cover, the holder of this FSP will ensure their harvesting and road construction operations do not result in reducing ~~forest thermal~~ cover in age class 3 or greater below 33% within Critical Moose Winter Range identified in Figure 4 of the KLRMP, it was on the date of the Order, unless
 - i. Felling and removing of trees is required to address trees that have been damaged by fire, insects, disease, or are at risk of damage, and the removal of those trees will not have a material adverse affect on attributes important to Moose thermal cover.
 - ii. For the purposes of section 5.1.9, “thermal cover” means forest cover that provides those attributes necessary, as determined by a qualified registered professional, to assist moose in regulating body temperature during the winter months.
- b. With respect to forage, the holder of this FSP will, through on-going forest harvest operational activities, trend toward maintaining 15% or more of the crown forested landbase in age class 2 or less within Critical Moose Winter Range identified in Figure 4 of the KLRMP, as it was on the date of the Order,
- c. Unless, for the purpose of Section 5.1.9 a. and b.,
 - i. agreement can not be reached with other forest tenure agreement holders on the distribution of thermal cover and forage as identified in sub-section 5.1.9 a. through b., then
 - ii. holder of this FSP will ensure measurement of the distribution of habitat and harvest timing only on that portion of the General Management Zone – Critical Moose Winter Range that falls within the holders operating area, or
 - iii. where harvesting timber outside of the holders operating area, the holder will identify thermal cover retention consistent with 5.1.9 a within any cutblock planned for timber harvesting, and
- d. In relation to visual cover, the holder of this FSP will retain where present, a visual screen of deciduous, coniferous, and/or shrub species along existing permanent roads

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held under road permit by the holder of this FSP, and along that portion of any W1, W2, and W5 wetland visible from an existing or proposed permanent road, unless;

- i. Cable harvest operations require the use of the road for the landing of logs or backspar location, or
- ii. Pre-harvest stand structure has a high hazard of windthrow as defined in flowchart #1, or
- iii. Felling and removing of trees is required to address trees that have been damaged by fire, insects, disease, or are at risk of damage, and the removal of those trees will not have a material adverse affect on attributes important to Mule Deer thermal cover or forage production. or
- iv. The topography is such that the skidding and decking of timber requires the use of the road or requires a yarding corridor through the wetland.

- 5.1.10 In relation to the objective set by government for Visually Sensitive Areas (2.1.14.1 index #172 and #173) the results/strategies that apply are:
- a. As set out in Section 5.9.1 and 5.13 of this FSP for areas within the visually sensitive area as defined in Figure 5 of the KLRMP as it was on the date of the Order, and
 - b. As set out in Section 5.9.2 of this FSP for areas not within the visually sensitive area as defined in Figure 5 of the KLRMP as it was on the date of the Order.
- 5.1.11 In relation to the objective set by government for Cultural and Heritage Sites (2.1.16 index #182) the results/strategies that apply are as set out in Section 5.10 of this document.
- 5.1.12 In relation to the objective set by government for Settlement Resource Management Zones (2.2 index #192) the results that apply to the areas of primary forest activity in each FDU are that the holder of this FSP will not harvest timber or construct road within the zone as it is defined in Figure 7 of the KLRMP as it was on the date of the Order.
- 5.1.13 In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies (2.5.1 index #225) the results/strategies that apply are as set out in Sections 5.1.14 through 5.1.18 of this FSP.
- 5.1.14 In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies H1 North Thompson Caribou Habitat (2.5.2 index #227) the results/strategies that apply are as set out in Section 5.1.15 of this FSP.
- 5.1.15 In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies H1 North Thompson Caribou Habitat (2.5.2 index #228) the results/strategies that apply to the areas of timber harvesting and road construction in FDU's FLN and FLS are:
- a. Implement operational timber harvesting guidelines for both late and early winter habitat areas, to ensure forest attributes needed by caribou are maintained. Refer to Kamloops LRMP Timber Harvesting Guidelines for Caribou Habitat in (Appendix 10 of Kamloops LRMP).
 - b. Unless:



- i. The felling and removing of trees is required to address trees that have been damaged by fire, insects, disease, or are at risk of damage², and the removal of those trees will not have a material adverse affect on attributes important to Caribou winter range.
- 5.1.16 In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies H10 Battle Bluffs Wildlife Habitat (2.5.2 index #250 and #254) the are falls outside of the Holder's FDU's, therefore no results or strategies are proposed.
- 5.1.17 In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies H11 Skull Wildlife Habitat (2.5.2 index #261) the results that apply in each FDU are that the holder of this FSP will not harvest timber or construct road within the zone as it is defined in Figure 10 of the KLRMP as of the date of the Order.
- 5.1.18 In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies H12 Skwilatin Wildlife Habitat (2.5.2 index #264) the results/strategies are as set out in Section 5.1.9 of this FSP.
- 5.1.19 In relation to the objective set by government for Special Resource Management – Recreation and Tourism Resource Management Objectives and Strategies (2.6.1 index #271) the results/strategies that apply are as set out in Section 5.9 and 5.13 of this FSP, where they may overlap with the Special Resource Management Zone – Recreation and Tourism.
- 5.1.20 In relation to the objective set by government for Special Resource Management – Recreation and Tourism Resource Management Objectives and Strategies (2.6.1 index #277) no approved plans, local processes, or enhanced referrals have been brought forward in FRPA and therefore the holder of this FSP has not set out any results or strategies.
- 5.1.21 In relation to the objective set by government for Special Resource Management – Recreation and Tourism Resource Management Objectives and Strategies (2.6.1 index #296) the results/strategies that apply to the areas of primary forest activity in each FDU are as set out in Sections 5.1.19 and 5.1.20 of this FSP.

Objectives Set By Government – FRPA s.149

5.2 Soils – FPPR s.5

- 5.2.1 In relation to the objective set by government for soils set out in section 5 of the FPPR, the results/strategies that apply to the areas of primary forest activity in each FDU are the requirements of section 35 & 36 of the FPPR as those sections were on the Date of Submission.

5.3 Wildlife – FPPR s.7

- 5.3.1 In respect of the notice entitled "Indicators of the Amount, Distribution, and Attributes of Wildlife Habitat Required for the Winter Survival of Ungulate Species in the Kamloops Timber Supply Area", issued in May 2004 in accordance with section 7(2) of the FPPR, the results that apply for FDU FLN and FLS are

² As defined under Section 5.7.1 a)



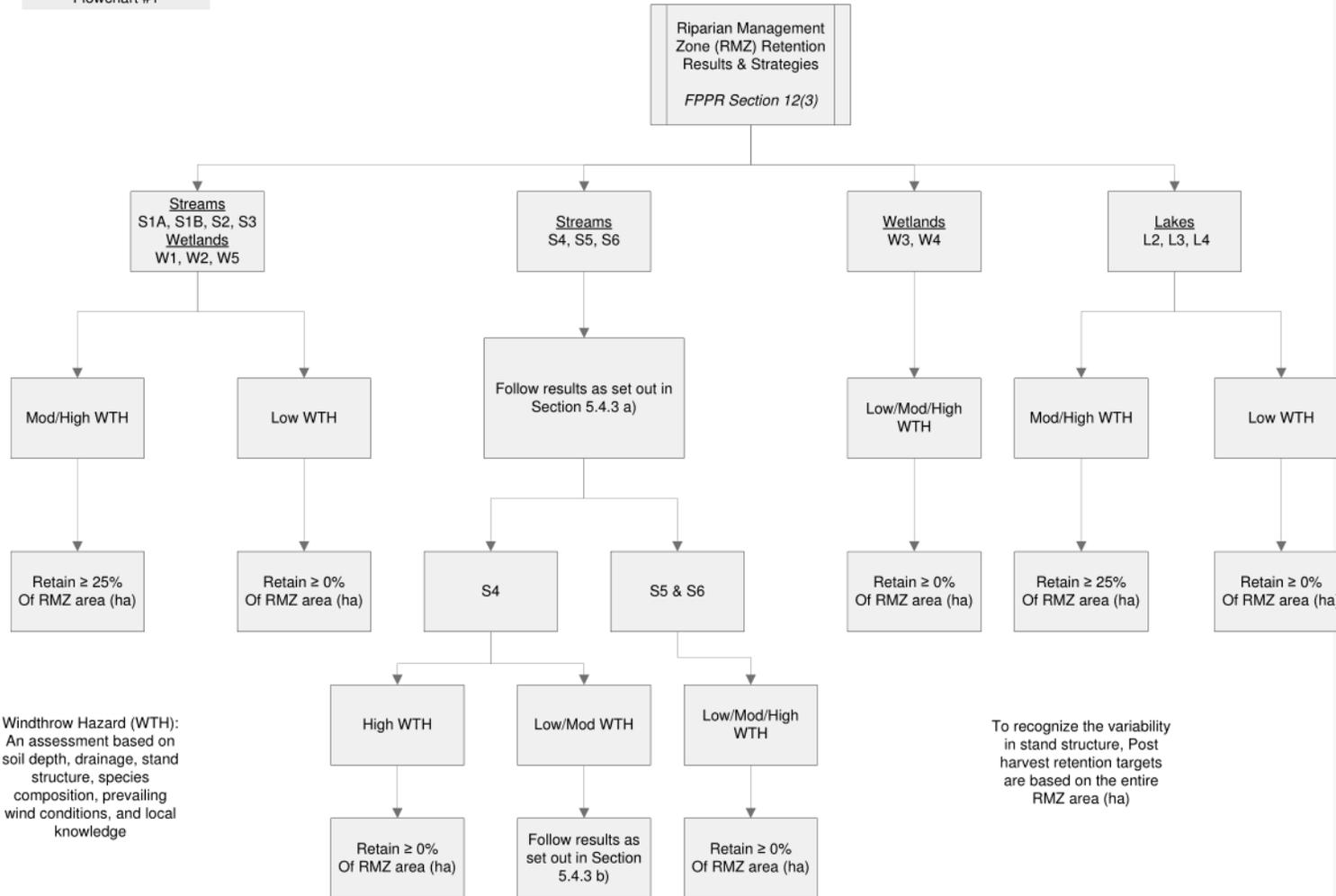
- a. That the holder of this FSP will not harvest timber or construct road within the Mountain Goat Winter Range area shown on the map which accompanied the order.
- 5.3.2 No notice has been provided under Section 7(2) for the survival of species at risk or the survival of regionally important wildlife, therefore the holder of this FSP has not set out any results or strategies.

5.4 Water, Fish, Wildlife, and Biodiversity within Riparian Areas – FPPR s.8

- 5.4.1 In relation to the objective set by government for water, fish, wildlife, and biodiversity within riparian areas set out in section 8 of the FPPR, the results/strategies that apply to the areas of primary forest activity in each FDU are, subject to paragraphs 5.4.2 and 5.4.3, the requirements of section 47 to 51 and 53 of the FPPR as those sections were on the Date of Submission.
- 5.4.2 Despite paragraph 5.4.1 and section 52(2) of the FPPR and to meet the requirements of 12 (3) of the FPPR, flowchart #1 and Paragraph 5.4.3 details the results and strategies for retention of trees in riparian management zones:
- 5.4.3 Subject to flowchart #1, the results or strategies respecting retention of trees in a riparian management zone are
- a. for areas within 5 m of an S4, S5 and S6 stream, to retain brush species, advanced regeneration, and, at the option of the holder of this FSP, retain danger trees assessed as safe by a qualified danger tree assessor, except where the holder of the FSP is:
 - i. establishing stream crossings,
 - ii. carrying out hand falling,
 - iii. carrying out cable or aerial yarding across or adjacent to the stream
 - iv. tying support or stabilization cables for overhead cable yarding systems, or
 - v. carrying out vegetation management treatments to meet free growing requirements, and
 - b. for areas within 10 m of an S4 stream, to retain over the length of each stream reach within a cutblock, an average of not less than 10 overstory stems on either side of the stream over 100 m of stream length³, unless
 - i. the trees to be retained are infested or diseased by a forest health agent that would spread if the trees were not removed,
 - ii. the stems are within 5 m of either side of a skid crossing, or within the right-of-way of a stream crossing,
 - iii. the stream reach is located in a harvest unit that is being harvested by a cable or an aerial yarding system.
 - iv. there are an insufficient number of overstory stems found within 10 m of the stream in which case the equivalent of existing preharvest overstory trees within 10m of the stream will be retained or
 - v. the trees are removed because they are danger trees or the trees have roots that are embedded in the stream bank.

³ Measurement example: Total # of overstory stems retained / Total length of stream within the block \geq 0.10

Flowchart #1





5.5 Fish Habitat in Fisheries Sensitive Watersheds – FPPR s.8.1

5.5.1 In relation to the objectives set by government for fish habitat in fisheries sensitive watersheds, no objectives have been identified and therefore no results or strategies are specified.

5.6 Water in Community Watersheds – FPPR s.8.2

5.6.1 In relation to the objectives set by government for water in community watersheds set out in Section 8.2 of the FPPR, the results/strategies that apply to the areas of primary forest activity for all FDU's are;

- a. the holder of this FSP will adopt sections 59 through 61 of the FPPR as those sections were on the date of submission of this FSP.
- b. Prior to harvesting or road construction, the holder will ensure an evaluation is completed for the hydrological impacts of forestry related development on:
 - i. the potential for accelerated surface erosion
 - ii. the potential for landslides
 - iii. the potential for changes to peak flow
 - iv. the interaction of these processes and cumulative effects.
- c. If the results of the evaluation conducted in section 5.6.1 b. indicate the Holder's harvesting, road construction, or deactivation will have a material adverse impact on community watershed quality of water above the intake, timing of flow, or on human health, the Holder will, prior to harvesting, road construction, or road deactivation evaluate and modify plans to mitigate any expected material adverse affects that could result from engaging in such activities.
- d. The requirement of the Holder to complete an evaluation under this section is not required under the following circumstances:
 - i. the felling or removal of trees that are a safety hazard, and
 - ii. the felling and removing of trees is required to address trees that have been damaged by fire, insects, disease, or are at risk of damage, and the removal of those trees will not have a material adverse affect on water quality or quantity upstream of the point of diversion.

5.7 Wildlife and Biodiversity (Landscape Level) – FPPR s.9

5.7.1 In relation to the objective set by government for wildlife and biodiversity at the landscape level set out in section 9 of the FFPR, the results/strategies that apply to all FDU's where there is timber harvesting and road construction activity are;

- a. For the purposes of this section, "at risk of damage" means any block of timber planned for harvest containing greater than ~~4~~30% Lodgepole pine by volume, or any block of timber where the compiled cruise shows the combination of % blowdown, % burn, and % insect damage for conifers to be greater than 20%.
- b. Subject to section 5.7.1 b. and 5.9.2, for the term of this FSP, the holder of this FSP will adopt sections 64 and 65 of the FPPR as those sections were on the date of submission of this FSP, except



- i. Section 64(1) and 65(2) of the FPPR does not apply where a stand contains trees that are at risk of damage and the holder of this FSP designs the block consistent with FPPR section 64(2)(b).
- c. Although no order has been made specifying the type or amount of old growth, the holders of this FSP will apply the following result/strategy in FDU's FLN, FLS, FLK, and TFL18.
 - i. Old Growth Management Areas will be maintained consistent with the spatially identified Old Growth Management areas shown on Appendix BG Maps #23 except
 1. For the purposes of maintaining a recreation site or trail,
 2. To facilitate range fencing activities,
 3. To facilitate road maintenance and construction where no other practicable option exists,
 4. To manage for forest health, where the trees in the old growth management area pose a significant risk, as determined by a qualified registered professional, to safety or to the health of mature and immature forests outside the OGMA,
 5. Where an incursion of up to 50 meters is required to establish a logical boundary for primary forest activities and where the intent is to use physical or administrative features as the boundary.
 6. Where agreement is reached with the Ministry of Agriculture and Lands to move an Old Growth Management Area from one location to another for the purposes of managing Caribou habitat.
 - ii. The holder of this FSP may submit for replacement of an Old Growth Management Area at any time, and the Old Growth Management Area will be considered replaced if:
 1. The replacement Old Growth Management area will be within the same landscape unit and biogeoclimatic sub-zone.
 2. The holder will submit, to the Ministry of Agriculture and Lands, a map and documentation identifying and describing the existing Old Growth Management Area and the one proposed for replacement.
 3. The description of the Old Growth Management Area will set out how the replacement Old Growth Management Area is consistent with selection principles and age criteria as set out in Appendix 3 and 5 of the May 7, 2003 Information Summary Package, and
 4. ~~If no response is received in 21 calendar days, the replacement will be deemed acceptable, or~~
 5. ~~If a response is received from the Ministry of Agriculture and Lands within the 21 calendar days, the holder of this FSP will only replace the Old Growth Management Area if written acceptance is provided by the Ministry.~~

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5.8 Wildlife and Biodiversity (Stand Level) – FPPR s.9.1

- 5.8.1 In relation to the objective set by government for wildlife and biodiversity at the stand level set out in section 9.1 of the FPPR, the results/strategies that apply to areas of timber harvesting in all FDU's are:



- a. If, during the period January 1 to December 31 of the same year, the holder of this FSP completes harvesting on one or more cutblocks to which this FSP applies, then
 - i. There will be wildlife tree retention areas on 80% or more of the cutblocks greater than 5 hectares that were harvested within that period, ~~unless~~
 - 1. ~~As determined by a qualified registered professional,~~
 - a. ~~The pre-harvest stand structure has few attributes that are valuable to wildlife, or~~
 - b. ~~The pre-harvest stand structure will not provide for the best long term recruitment of wildlife trees, or~~
 - 2. ~~The pre-harvest stand structure has a high hazard of windthrow as defined in flowchart #1, or~~
 - 3. ~~Felling and removing of the trees is required to address a safety hazard, if there is no other practicable options for addressing the safety hazard, or~~
 - 4. ~~Felling and removing of the trees is required to address trees that have been damaged by fire, insects, disease, or other similar cases, or~~
 - 5. ~~The portion of the wildlife tree retention area that is occupied by trees provides the most practicable access to another cutblock and the holder specifies one or more wildlife tree retention locations that provide an area, number of trees, or habitat attributes that are similar in character to the wildlife tree retention from which timber will be harvested.~~
 - b. ~~Wildlife trees currently located within the contributing forest landbase may be deleted from a prescription and/or harvested at the discretion of a qualified registered professional, subject to any legislated approvals required by the Delegated Decision Maker.~~

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5.9 Visual Quality – FPPR s.9.2

- 5.9.1 In relation to the objective set by government for visual quality set out in 9.2 of the FFPR for the scenic areas defined in Appendix B~~C~~ Map #2, the result/strategy for timber harvesting and road construction in FDUs FLN, FLS, and TFL18 is that the holder of this FSP will design cutblocks and roads so that the altered forest landscape is consistent with section 9.2 (2) of the FPPR as it relates to the District of Headwaters visual landscape inventory dated 1999, as that section was on the Date of Submission unless;
 - a. no other practicable option exists to provide road access to timber to ensure the holders of the FSP can exercise their timber harvesting rights,
 - b. ~~it is unachievable because of the actions of another person or other natural event,~~
 - e. ~~b.~~ it is unachievable if forest health factors in the area are to be address and the design of the cutblock or road, to the extent practicable, mimics naturally occurring landscape characteristics and, subject to Section 5.9.2 a., exhibits elements of good visual design, or
 - d. ~~c.~~ the block or road is designed as part of a visual rehabilitation plan developed for the area.
- 5.9.2 In relation to the objective set by government as set out in section 5.1.10 b) for areas outside the scenic areas defined in Appendix B~~C~~ Map #2 the result/strategy for FDUs FLN, FLS, FLK, and TFL18 is that the holder of this FSP will design cutblocks and roads so that

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the altered forest landscape may dominate the viewscape, but will borrow from natural line and form to such an extent and on such a scale as to be compatible with natural occurrences except where:

- a. As determined by a qualified registered professional, the external and internal boundary locations are limited by:
 - i. a road location,
 - ii. an old growth management area,
 - iii. harvest machinery limitations,
 - iv. riparian management results or strategies as set out in Section 5.4 of this FSP,
 - v. block size restrictions as set out in Section 5.7.1 of this FSP,
 - vi. timber merchantability, or
 - vii. retention limits as set out in Section 5.8 of this FSP.

5.10 Cultural Heritage Resources – FPPR s.10

5.10.1 In relation to the objective set by government for cultural heritage resources set out in the section 10 of the FPPR and to be consistent with the objective set out in section 5.1.11 of this FSP, the results/strategies that apply to each FDU are:

- a. For the purposes of this section “Archaeological assessment” means an assessment completed consistent with the January 25, 2005 Archeological Overview Assessment Process for Forest Development Planning in the Kamloops TSA.
- b. before a holder submits a cutting permit or road permit, the holder will ensure that an archaeological assessment is conducted within areas:
 - i. that contain previously identified archaeological resources, where this information is provided digitally to the holder of this FSP by the Archaeology Branch of the Government of British Columbia, or;
 - ii. that are identified as having “high, medium-high, or medium potential” within an established archaeological predictive map or model for the area, or;
 - iii. for which site-specific information regarding archaeological resources is brought forward or made available to the holders of this FSP, by an aboriginal people or government.
- c. If a previously unidentified archaeological resource is encountered during harvesting or road construction, operations will cease to the extent necessary to protect the feature, until an archeological assessment can be carried out, and
- d. If the holder receives site specific information concerning a non-archaeological cultural heritage resource that is of continuing importance to an aboriginal people, the holder, before applying for a cutting permit or road permit respecting the site, will:
 - i. record the location of the cultural heritage resource;
 - ii. evaluate the direct impact of the planned development on the cultural heritage resource;
 - iii. if necessary, alter planned development in order to conserve, mitigate, or if necessary protect, the cultural heritage resource at that location, considering:
 1. the relative value or importance of the cultural heritage resource to a traditional use by an aboriginal people;
 2. the relative abundance or scarcity of the cultural heritage resource;



3. the historical extent of the traditional use of the cultural heritage resource, and;
4. the impact on the FSP holders' government granted timber harvesting rights in conserving or protecting the cultural heritage resource, and
- iv. communicate the results of (i) – (iii) back to the individual or group that provided the information.

Grandparented Objectives – FRPA s.181

5.11 Objectives in respect of Ungulate Winter Range

- 5.11.1 No ungulate winter range objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results/strategies are specified.

5.12 Objectives in respect of Wildlife Habitat Areas

- 5.12.1 No wildlife habitat area objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results/strategies are specified.

5.13 Objectives in respect of a Scenic Area

- 5.13.1 In relation to the objective set by government for Scenic Areas the results/strategies that apply to FDU FLK are that the holder of this FSP will design cutblocks and roads so that the altered forest landscape is consistent with the established visual quality objectives, as they were on the Date of Submission, within the scenic area boundary as it is defined in Figure 5 of the KLRMP as it was on the date of the Order on the FSP Content Map(s) #2, unless otherwise as described in Section 5.9.1 a) though e).

5.14 Objectives in respect of an Emergency Bark Beetle Management Area

- 5.14.1 No Emergency Bark Beetle Management Area objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results/strategies are specified.

5.15 Objectives in respect of Community Watersheds

- 5.15.1 No community watershed objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results or strategies are specified.

5.16 Objectives in respect of an area with Significant Downstream Fisheries Values

- 5.16.1 No significant downstream fisheries value objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results or strategies are specified.

5.17 Objectives in respect of an area with Significant Watershed Sensitivity

- 5.17.1 No significant watershed sensitivity objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results or strategies are specified.

5.18 Objectives in respect of a Lakeshore Management Zone



5.18.1 No lakeshore management zone objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results or strategies are specified.

5.19 Objectives in respect of an Interpretive Forest Site

5.19.1 In relation to the objectives for the Isobel Lake Interpretive Forest Site, the site falls outside of the holders FDU's so no results or strategies are specified.

5.20 Objectives in respect of Recreations Sites and Recreation Trails

5.20.1 In relation to the objectives referred to in section 181 of the FRPA for recreation sites and recreation trails, and in addition to those results/strategies set out in other sections of this plan, -the results/strategies that apply to each FDU in respect of cutting permits and road permits held by the holder of this FSP are;

- a. If harvesting or road construction is proposed within a recreation site or trail, or within 100 m of an established recreation site or recreation trail, the holder will ensure
 - i. no harvesting occurs if stand damage from forest health factors is less than 10% of the stems per hectare;
 - ii. partial cutting will be used if stand damage from forest health factors is greater than or equal to 10% of the stems per hectare;
 - iii. clear cutting may be used if stand damage from forest health factors is greater than 40% of the stems per hectare;
 - iv. temporary road construction or access control is implemented within the 100 meter buffer of the site or trail,
 - v. any damage to the recreation site or trail due to road construction or harvest activities by the holders of this FSP within the 100 m buffer will be repaired or mitigated, and
- b. If the holder has a road permit for the only access route to a recreation site identified in Table 3, and subject to FPPR section 81 as it was on the date of submission, the holder will not restrict summer access as a result of deactivation activities, except for temporary closures to repair or replace roads and bridges. The following table lists the applicable road permits:

Table 3.

General Location	Recreation Feature	Licence	Road Permit Number	Road	Road Status	Major Structures or Bridges
Lolo Lake	Site	FL A18688	R06104	31	Active	-
Moira Lake S.	Site	TFL 18	R06112	40A	Inactive	Bridge K750
Ejas Lake	Site	TFL 18	R06112	9	Active	-
Kitty Ann Lake	Site	TFL 18	R06112	231	Active	-
McCorvie Lake N.	Site	FL A18688	R14702	1490	Active	-
White Lake	Site	TFL 18	R06112	10	Active	-
Windy Lake	Site	TFL 18	R06112	10	Active	-
Boundary Lake	Site	TFL 18	R06112	7B	Active	Bridge
East Maury Lake	Site	TFL 18	R06112	9	Inactive	-
Moira Lake North	Site	TFL 18	R06112	91	Inactive	-
Grizzly Lake East	Site	TFL 18	R06112	3	Inactive	-
Moose Lake	Site	TFL 18	R06112	10	Active	-



6 MEASURES

6.1 Measures for Preventing the Introduction or Spread of Invasive Plants

- 6.1.1 In relation to the measures referred to in section 17 of the FPPR for preventing the introduction or spread of invasive plants, the measures for all FDUs are;
- a. The holder of this FSP will annually review the appropriate governments Invasive Alien Plants database and note the locations of infestations relative to proposed primary forest activities,
 - b. Using the information resulting from subsection a), will identify areas of high risk to invasive plant introduction or spread from harvesting or road construction operations,
 - c. Will ensure that the holders woodlands staff are trained in the recognition of invasive plants prior to conducting work for the Holder, and
 - d. When conducting harvesting or road construction operations the holder of this FSP will ensure that disturbed areas are,
 - i. Re-vegetated within one year following disturbance on high risk sites identified in b) above, and
 - ii. Re-vegetated within two years for all other sites, and
 - iii. The seed mix used in all grass seeding activities shall meet or exceed Canada ~~Common Common~~ #1 Forage Mixture Specifications as defined by the Canada Seeds Act.

6.2 Measures to Mitigate the Loss of Natural Range Barriers

- 6.2.1 In relation to the measures referred to in section 18 of the FPPR to mitigate the effect of removing or rendering ineffective natural range barriers, the results/strategies for all FDUs are
- a. Each year under the term of this FSP, the areas within FDUs that are occupied by or adjacent to range tenures authorized by an enactment will be updated from information gathered from district range staff;
 - b. Any range tenure holder identified under 6.2.1 a above that has not been previously informed of this FSP will be informed of this FSP within 3 months of updating the range tenures as a result of 6.2.1 a. and,
 - c. Where, as a result of Section 5.1.6 a), the range tenure holder indicates that the planned development will remove or render ineffective a natural range barrier, reasonable efforts will be made to come to agreement with the range tenure holder(s) and to implement measures as agreed ~~subject to the recognition of costs for such measures in a cutting permit appraisal or equivalent pricing mechanism.~~

7 STOCKING REQUIREMENTS

Legal Reference: FPPR Section 16

7.1 General Standards

Where a holder of this FSP is required under the Act and regulations to establish a free growing stand in respect of timber harvesting governed by this FSP, the holder will on all cutblocks, subject to Paragraph 7.2 do so in accordance with the regeneration and free growing stocking standards in Appendix A.



For the purposes of the Free Growing stocking standards, for each site series, "other" is defined as a species listed in the "Preferred spp" column and having a height defined under the "Other spp Ht (m)" column.

For the purposes of the Regeneration Delay and Free Growing stocking standards Lw will contribute a maximum of 30% toward target stocking density.

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7.2 Variations from General Standards

Despite Paragraph 7.1, a holder of this FSP may apply the following stocking standards in the following circumstances:

7.2.1 ~~Regeneration delay will be of 4 years may be extended to 7 years where natural ingress is used to achieve regeneration regeneration standards for minimum preferred and acceptable and minimum preferred is the primary reforestation method.~~

7.2.2 Non rust resistant white pine or naturally regenerated white pine will be pruned to a height of 1.3 metres to reduce risk of white pine blister rust. This will occur when white pine accounts for more than 5% of the required stems per hectare to meet free growing; if less than 5% is required, pruning will not occur and the white pine will be deemed acceptable. Only rust resistant white pine will be planted.

7.2.3 In FDU's FLK, FLS, and TFL 18, in the SBS, ESSF, and ICH zones between 1000 and 1500 meters elevation where White Pine Weevil (*Pissodes strobi*) having attack levels > 10%⁴ is identified in a plantation containing > 30% spruce, aspen and birch will not be considered detrimental competition to spruce crop trees as long as the HDR of the spruce crop trees are less than 60 when conducting a free growing survey.

7.2.4 Aspen, cottonwood, birch, willow and alder within the 5 meter machine free zone of a temperature sensitive stream, or a S4, S5, or S6 stream, are not considered deleterious brush competition when conducting a free growing survey.

7.2.5 With respect to Mule Deer,

- a. Western larch planted in Critical Mule Deer Winter Range defined in Figure 4 of the KLRMP as it was on the date of the Order may only make up a maximum of 50% of the total target stocking on those standard units planted.

7.2.6 The maximum density for Lodgepole Pine leading stands is 25,000 countable stems per hectare.

7.2.7 For all other species and for stands with ≤ 80% Lodgepole Pine the maximum density is 10,000 countable stems per hectare.

~~7.2.8 Consistent with Section 5.1.6 of this FSP, the minimum stocking standard stems per hectare at Free Growing for the standard unit as described in the survey provided to the Ministry of Forests will be the number of stems per hectare that constitutes the 95% lower confidence limit of the silviculture survey.~~

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~~7.2.9 M value stated is the maximum number of well spaced or well spaced Free Growing trees that may be counted in a 3.99 metre radius plot in a survey used to assess Free Growing or Regeneration Stocking Standards.~~

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⁴ >10% is defined as % of spruce attacked /total spruce.

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7.2.107.2.8 Where the MITD is 2.0 metres the MITD may be reduced to 1.6 metres for areas;

- i. Where stumping or mounding site preparation treatments are conducted, or
- ii. Where surface or sub-surface rock limits plantable spot selection of the site, or
- iii. Where there is high congregation and use by cattle, or
- iv. Where heavy slash loading exists, or
- v. Cable terrain where stumping cannot be conducted to manage root rot, or
- vi. Sites where stump avoidance during planting is a root rot management strategy, or
- vii. To facilitate obstacle planting in areas within the Mule Deer UWR units as identified in Appendix B.A, or
- viii. Riparian areas with a high component of residual stems.

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7.2.117.2.9 To remain consistent with the result/strategy as set out in Section 5.1.9 of this FSP, within KLRMP Critical Moose Winter Range in figure 4 of the Kamloops LRMP as it was on the Date of Submission of this FSP;

- a. Aspen, willow, cottonwood, birch and red osier dogwood will not be considered detrimental competition to crop trees at free growing if they are no more than 10 meters from the edge of a permanent road prism, or a W1, W2, or W5 wetland identified as visible from a permanent road.

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SIGNATURES of Persons required to prepare plan

Preparing Forester <i>"I certify that I have determined that this work was performed to an acceptable standard"</i>	RPF Sign and Seal
	DAVE DOBI, R.P.F #2587. Forestry & Planning Superintendent Vavenby Division Canadian Forest Products

Authorized Licensee Signature:	
	Richard Jones, R.P.F. Vavenby Division Woodlands Manager Canadian Forest Products Ltd. Signing Authority



**APPENDIX A
REGENERATION AND FREE GROWING STOCKING STANDARDS**

FRPA Section 197(5) Blocks for which FSP Stocking Standards apply

Tenure	Cutting Permit	Block ID	Applicable FDU
FL A18688	187	1, 2, 4	FLN
TFL 18	262	B108	TFL18
FL A18688	805	1, 2, 3, 6	FLK
FL A18688	807	1, 2, 3, 4, 5	FLK
FL A18688	848	2.1, 2.2, 6, 16	FLK
FL A18688	624	S121	FLS
FL A18688 / TFL 18	633/256	B103	FLS/TFL18
FL A18688	635	S238, S243	FLS
FL A18688	636	M153	FLS
FL A18688	638	S208, S209	FLS
FL A18688	125	N123, L148, R153	FLS
FL A18688	506	R150	FLS
FL A18688	523	N130, N131, N132	FLS
TFL 18	261	M146, M151	TFL18
FL A18688	637	S245, S246, S113	FLS
TFL 18	263	M160, M161, M162	TFL18
TFL 18	264	D141	TFL18
TFL 18	265	I100, I104, I115	TFL18
FL A18688	524	R194	FLS
FL A18688	525	R199	FLS
FL A18688	310	U101, U111, U126, U127	FLN
FL A18688	518	N121, N124, N127	FLS
FL A18688	519	N122	FLS
FL A18688	520	F107, F108, F109	FLS
FL A18688	521	N126, N133	FLS
TFL 18	247	D110	TFL18
TFL 18	255	D100	TFL18
TFL 18	257	M128, M143, M145, M147, M148, M149, M152	TFL18
TFL 18	258	D131, D132	TFL18
TFL 18	259	M125, M154	TFL18
TFL 18	260	D130	TFL18









APPENDIX B
FOREST STEWARDSHIP PLAN MAPS

Summary of FSP Maps

Map Number	Map Reference
1	FDU Location Map
2	FSP Content Maps (4 maps)

Canadian Forest Products Ltd.

Vavenby Division



Submission Copy
FOREST STEWARDSHIP PLAN
2006

Dated for reference September 29, 2006

Language Consolidated to Amendment #19

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1 INTERPRETATION

1.1 In this Forest Stewardship Plan:

“**Agreements**” means the Tenures listed in Table 1.

“**Agreement holders**” means the companies and licenses listed in Table 2.

“**Commencement of Term**” means the date the Term of this FSP begins, as specified in Paragraph 2.3.

“**FDU**” means a Forest Development Unit as defined in the Forest Planning and Practices Regulation B.C. Reg. 14/2004 consolidated to March 18, 2005.

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

“**FPPR**” means the Forest Planning and Practices Regulation, effective January 31, 2004, B.C. Reg. 14/2004 and as amended up to BC Reg 102/2005.

“**FRPA**” means the *Forest and Range Practices Act*, RSBC 2002, c. 69, as amended to 31 Mar 2005 (BC Reg 38/05).

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

“**KLRMP**” means the Kamloops Land and Resource Management Plan.

“**Order**” means the Order of the Minister of Agriculture and Lands amending an Order dated January 23, 1996 that declared the Kamloops Land and Resource Management Plan to be a Higher Level Plan; dated January 23, 2006.

“**Survival**” (of a species) means the continuation of life or existence of a species not individuals.

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

Small scale salvage harvest areas are not considered in any forest cover calculations within this FSP.

- 1.2 In this FSP, the singular includes the plural and the plural includes the singular, unless the context indicates otherwise.
- 1.3 The provisions of this FSP do not apply to the holders of this FSP when carrying out a forest practice or activity that is in relation to any program funded by the provincial or federal government.
- 1.4 If an objective for which a result or strategy is included under this FSP is cancelled, the result or strategy under this FSP pertaining to that objective is no longer applicable effective the date of cancellation of the objective.
- 1.5 Without limiting the other provisions of this Part, this FSP does not apply to timber harvesting, road construction or related activities undertaken by or for the holders of this FSP if and to the extent the government, with the consent of the holders of this FSP, expressly authorizes such activities to be undertaken in a manner that differs from the requirements of this FSP.

2 DATE OF SUBMISSION, COMMENCEMENT OF TERM & TERM OF THE FSP

- 2.1 The date of submission of this Forest Stewardship Plan (this "FSP") is September 29, 2006.
- 2.2 The Term of this FSP will be 5 years from the Commencement of Term.
- 2.3 The Commencement of Term for this FSP is _____

3 APPLICATION OF THE FOREST STEWARDSHIP PLAN

- 3.1 This FSP applies to the Agreement Holders and Agreements indicated in the following table:

Table 1.

Agreement Holder	Agreement
Canadian Forest Products Ltd.	FL A18688, TFL 18
International Forest Products Ltd.	FL's A18693 & A74910
Bonaparte First Nation	FL A88223

- 3.2 For the purposes of section 197 (4), (5), and (7) of the FRPA,
- the results, strategies, measures and stocking requirements of this FSP apply to all new cutting permits issued after the Commencement of Term of this FSP
 - the results, strategies and measures of this FSP apply to each road that is the subject of a road permit granted to an Agreement Holder if the road permit was granted before the approval of this FSP, and is still in effect on the date of approval of this FSP.
 - the stocking standards in this FSP apply to all cutblocks if the cutblock is the subject of a site plan prepared on or after the Commencement of Term of this FSP. As set out in FRPA Section 197(5), the stocking standards set out in this plan also apply to those blocks listed in Appendix A.
 - The Chief Forester Standards for Seed Use will be used for all blocks subject to this FSP.

4 IDENTIFYING FOREST DEVELOPMENT UNITS

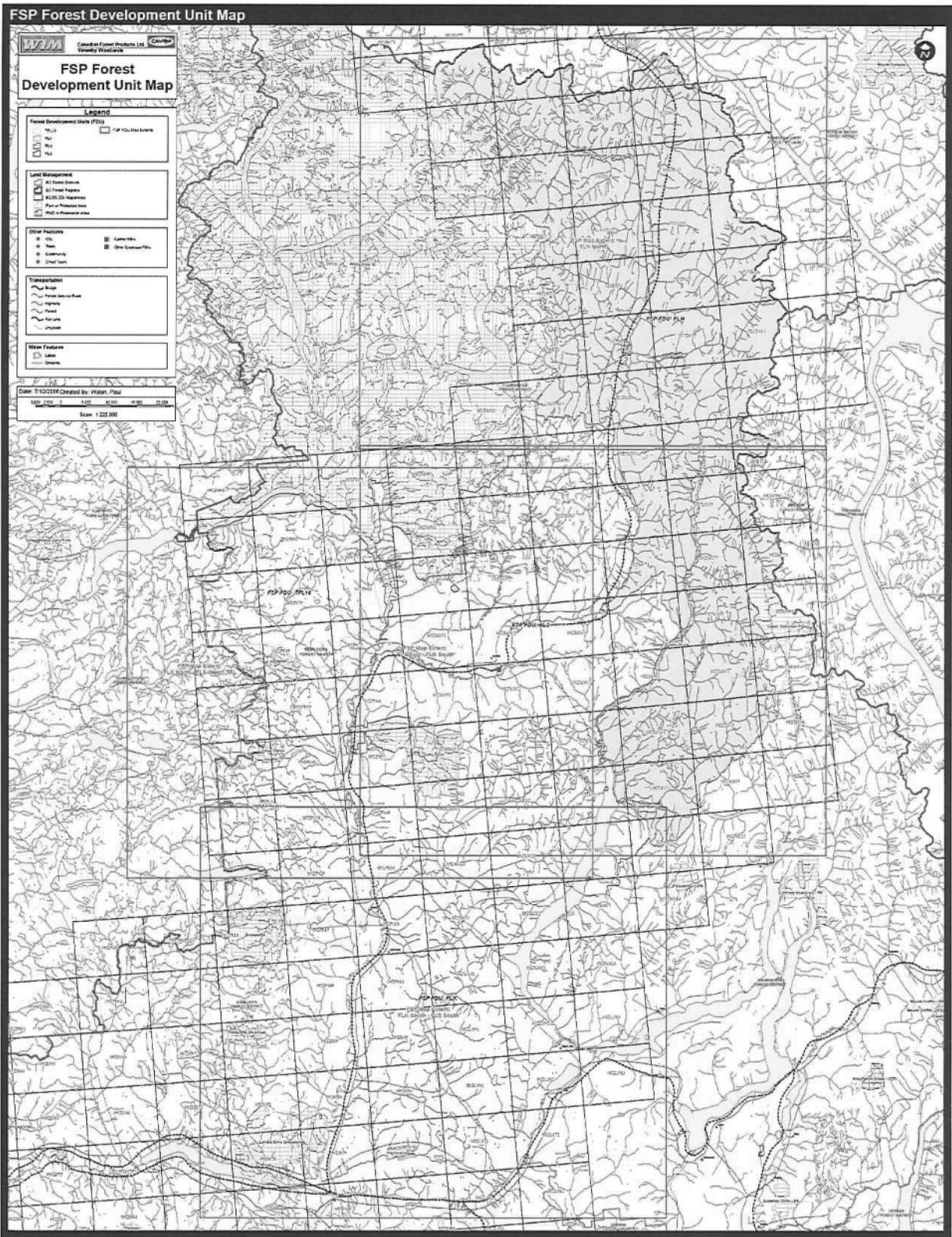
- 4.1 There are no forest development units in effect on the Date of Submission of this FSP.
- 4.2 The following table lists the new forest development units in this FSP:

Table 2.

FDU Name	Agreement Holder	Agreement
FLN	Canfor, Interfor, Bonaparte First Nation	FL's A18688, A18693, A74910, A88223
FLS	Canfor, Interfor, Bonaparte First Nation	FL's A18688, A18693, A74910, A88223
FLK	Canfor, Interfor, Bonaparte First Nation	FL's A18688, A18693, A74910, A88223
TFL18	Canadian Forest Products	TFL 18

Figure 1 (next page) shows the boundaries of all FDU's in this FSP.

Figure 1.



- 4.3 The following areas, as indicated on the FSP content maps (1:100,000 scale), are included within the FDU's and are considered to have received the Minister's approval under the FRPA: areas referred to in section 196 (1) of the FRPA; areas referred to in section 196 (2) of the FRPA; cutting permits and road permits.
- 4.4 The maps included in this FSP show the location of the following items that were in effect on the date of submission:
- a. Ungulate winter range areas, wildlife habitat areas, fisheries sensitive watersheds, lakeshore management zones, scenic areas, L1 lakes, community watersheds, old growth management areas, areas where commercial timber harvesting is prohibited by an enactment.
 - b. The areas subject to an Agreement Holder's cutting permit or a road permit.

5 RESULTS AND STRATEGIES

5.1 Objective Set by Government; Order of the Minister of Agriculture and Lands, dated January 23, 2006 – FPC s.3

- 5.1.1 In relation to the objective set by government for Water Management (2.1.2 index #17) the results/strategies that apply to the areas of harvesting, road construction, mechanical site preparation, or broadcast burning operations, in each FDU are that the holder of this FSP will;
- a. at least 60 days prior to initiating harvesting, road construction, mechanical site preparation, or broadcast burning operations on a cutblock, provide the registered domestic water licensee with written notice of the planned activity, as long as that planned activity:
 - i. is within 200 meters upslope of the registered water licensee point of diversion,
 - b. For the purpose of this section "mechanical site preparation" means a site preparation method requiring the use of wheeled or tracked equipment.
 - c. For the purpose of this section "registered domestic water licensee" means a water licensee licensed for domestic use, having a licensed point of diversion as identified in Land and Water BC GIS coverage as it was 4 months or less before the commencement of term this FSP, and updated annually thereafter.
- 5.1.2 In relation to the objective set by government for Riparian Management Areas (2.1.2.1 index #32) the results/strategies that apply are as set out in Section 5.4 of this FSP.
- 5.1.3 In relation to the objective set by government for Ecosystem Management (2.1.3 index #42) the results/strategies that apply are as set out in Sections 5.7.1 / 5.8.1 of this FSP.
- 5.1.4 In relation to the objective set by government for Biodiversity Emphasis Options (2.1.3.1 index #48) the results/strategies that apply are as set out in Section 5.3, Section 5.4, Section 5.7, and Section 5.8 of this FSP.
- 5.1.5 In relation to the objective set by government for Inland Fisheries (2.1.5 index #65) the results/strategies that apply to the holder of this FSP for road construction, maintenance, deactivation and timber harvesting in all FDU's are:
- a. As set out in Section 5.20 of this FSP with respect to recreation sites, and
 - b. The holder of this FSP will not construct permanent road within a zone subject to an order under Section 58(1) of FRPA.

- 5.1.6 In relation to the objective set by government for Range (2.1.10 index #120), and in addition to those results/strategies as set out in Section 6.2 of this FSP, the results/strategies that apply to the areas of silviculture activity in each FDU are:
- a. Prior to the submission of a cut block for harvest authority approval the range tenure holder(s), as defined consistent with Section 6.2.1 a), will be contacted and offered an opportunity to provide recommendations regarding the block and road plan and proposed management actions.
 - b. Where cattle grazing damage or artificially seeded range grass competition is identified as reducing plantation stocking or affecting the survival of seedlings, the holder of this FSP will:
 - i. Make all reasonable efforts to meet with the range tenure holder responsible for the area and develop an agreement to manage any cattle or range use issues affecting seedling performance or plantation success, or
 - 1. Where agreement cannot be reached, agreed actions are not carried out by the range tenure holder, or seedling survival is repeatedly affected by the activities of a range tenure holder,
 - a. The holder of this FSP will make the Designated Decision Maker aware of the issue, and
 - i. if the issue remains unresolved after a review with the range tenure holder and designated decision maker, The holder of this FSP will conduct a silviculture survey of the block and provide that survey to the Ministry of Forests.
- 5.1.7 In relation to the objective set by government for Wildlife (2.1.12 index #134) the results/strategies that apply to the areas of timber harvesting and road construction activity in each FDU are as set out in Section 5.3 of this FSP and,
- a. Within FDU FLK, The holder of this FSP will participate, along with other participating forest licensees and agency representatives within the Kamloops Forest District, to identify for Wildlife Habitat Area designation,
 - i. The lesser of 3,300 ha or the amount present on the Commencement of Term, of crown land in the Kamloops Forest District, that meets the distribution and attributes set out in the background information document¹ for the Flammulated Owl for the Term of this FSP, and
 - ii. The lesser of 60 ha or the amount present on the Commencement of Term, of crown land in the Kamloops Forest District, that meets the distribution and attributes set out in the background information document for the "Interior" Western Screech Owl for the Term of this FSP.
 - iii. The lesser of 650 ha or the amount present on the Commencement of Term, of crown land in the Kamloops Forest District, that meets the distribution and attributes set out in the background information document for the Lewis's Woodpecker for the Term of this FSP.
 - iv. The lesser of 35 ha or the amount present on the Commencement of Term, of crown land in the Kamloops Forest District, that meets the distribution and

¹ Background Information for Wildlife Habitat for Species At Risk Objectives Under the Kamloops Land and Resource Management Plan, in the Kamloops Forest District; undated, downloaded June 8, 2006.

attributes set out in the background information document for the Badger for the Term of this FSP.

- v. The lesser of 120 ha or the amount present on the Commencement of Term, of crown land in the Kamloops Forest District, that meets the distribution and attributes set out in the background information document for the Spotted Bat for the Term of this FSP.
 - b. If the participatory process outlined in 5.1.7 a does not occur, then the holder of this FSP will, within FDU FLK, ensure harvesting or road construction within areas of known occurrences, based on location information provided to the holder by the Ministry of Environment, will be consistent with the identified wildlife provisions as set out in the Accounts and Measures for Managing Identified Wildlife – v. 2004.
 - c. Within FDU's FLN, FLS, and TFL18, no section 7 notices are in place for species at risk that apply to these FDU's and therefore the holder of this FSP has not specified results or strategies.
- 5.1.8 In relation to the objective set by government for Critical Deer Winter Range (2.1.12.1 index #142, #143 and #144) and subject to Section 5.1.8 b., the results/strategies that apply to the areas of timber harvesting in Critical Deer Winter Range defined in the FSP content maps listed in Appendix B within FDU's FLK and FLS are;
- a. For the purpose of this section
 - i. "thermal cover" means the combination of topography and forest cover that provides those attributes necessary, as determined by a qualified registered professional, to assist mule deer in regulating body temperature during the winter months and
 - ii. For the purposes of this section and Section 5.1.9, "forest tenure agreement holders" are those major licensees whose operating activity overlaps critical mule deer winter range shared within Canfor's operating area.
 - b. The Holder of this FSP will:
 - i. disperse their timber harvesting throughout the winter range and spread it out evenly over the rotation,
 - ii. ensure their timber harvesting and road construction operations do not result in a reduction of thermal cover below 25% of the crown forested landbase.
 - iii. Subject to retention limitations related to old growth, riparian areas, and wildlife trees as set out in section 5.4, 5.7, and 5.8 of this FSP, where practicable link areas of thermal cover together with suitable travel corridors,
 - iv. As determined by a qualified registered professional, practice uneven aged management where species composition, stand structure, site conditions, and regeneration objectives are suitable for implementation of that silviculture system,
 - v. Subject to sub-section 5.1.8 a iv. where uneven aged management is not practiced, utilize a clearcut system with openings less than 5 hectares as measured by the net area to reforest,
 - c. Unless:
 - vi. agreement cannot be reached with other forest tenure agreement holders on the distribution of habitat and timing of harvest as identified in sub-section 5.1.8 b.i through iii., then
 - vii. the holder of this FSP will ensure measurement of the distribution of habitat and harvest timing only on that portion of the General Management Zone – Critical Deer Winter Range that falls within the holders operating area, or

- viii. where harvesting timber outside of the holders operating area, the holder will identify thermal cover retention consistent with 5.1.8 b ii within any cutblock planned for timber harvesting, or
- ix. the felling and removing of trees is required to address trees that have been damaged by fire, insects, disease, or are at risk of damage, and the removal of those trees will not have a material adverse affect on attributes important to Mule Deer thermal cover or forage production.

- 5.1.9 In relation to the objective set by government for Critical Moose Winter Range (2.1.12.2 index #158 and #159), and in addition to those results/strategies as set out in Section 5.4 of this FSP, the results/strategies that apply to the areas of harvesting and road construction in each FDU are;
- a. With respect to thermal cover, the holder of this FSP will ensure their harvesting and road construction operations do not result in reducing thermal cover in age class 3 or greater below 33% within Critical Moose Winter Range identified in Figure 4 of the KLRMP, it was on the date of the Order, unless
 - i. Felling and removing of trees is required to address trees that have been damaged by fire, insects, disease, or are at risk of damage, and the removal of those trees will not have a material adverse affect on attributes important to Moose thermal cover.
 - ii. For the purposes of section 5.1.9, “thermal cover” means forest cover that provides those attributes necessary, as determined by a qualified registered professional, to assist moose in regulating body temperature during the winter months.
 - b. With respect to forage, the holder of this FSP will, through on-going forest harvest operational activities, trend toward maintaining 15% or more of the crown forested landbase in age class 2 or less within Critical Moose Winter Range identified in Figure 4 of the KLRMP, as it was on the date of the Order,
 - c. Unless, for the purpose of Section 5.1.9 a. and b.,
 - i. agreement can not be reached with other forest tenure agreement holders on the distribution of thermal cover and forage as identified in sub-section 5.1.9 a. through b., then
 - ii. holder of this FSP will ensure measurement of the distribution of habitat and harvest timing only on that portion of the General Management Zone – Critical Moose Winter Range that falls within the holders operating area, or
 - iii. where harvesting timber outside of the holders operating area, the holder will identify thermal cover retention consistent with 5.1.9 a within any cutblock planned for timber harvesting, and
 - d. In relation to visual cover, the holder of this FSP will retain where present, a visual screen of deciduous, coniferous, and/or shrub species along existing permanent roads held under road permit by the holder of this FSP, and along that portion of any W1, W2, and W5 wetland visible from an existing or proposed permanent road, unless;
 - i. Cable harvest operations require the use of the road for the landing of logs or backspar location, or
 - ii. Pre-harvest stand structure has a high hazard of windthrow as defined in flowchart #1, or
 - iii. Felling and removing of trees is required to address trees that have been damaged by fire, insects, disease, or are at risk of damage, and the removal of those trees will not have a material adverse affect on attributes important to Mule Deer thermal cover or forage production. or

- iv. The topography is such that the skidding and decking of timber requires the use of the road or requires a yarding corridor through the wetland.
- 5.1.10 In relation to the objective set by government for Visually Sensitive Areas (2.1.14.1 index #172 and #173) the results/strategies that apply are:
- a. As set out in Section 5.9.1 and 5.13 of this FSP for areas within the visually sensitive area as defined in Figure 5 of the KLRMP as it was on the date of the Order, and
 - b. As set out in Section 5.9.2 of this FSP for areas not within the visually sensitive area as defined in Figure 5 of the KLRMP as it was on the date of the Order.
- 5.1.11 In relation to the objective set by government for Cultural and Heritage Sites (2.1.16 index #182) the results/strategies that apply are as set out in Section 5.10 of this document.
- 5.1.12 In relation to the objective set by government for Settlement Resource Management Zones (2.2 index #192) the results that apply to the areas of primary forest activity in each FDU are that the holder of this FSP will not harvest timber or construct road within the zone as it is defined in Figure 7 of the KLRMP as it was on the date of the Order.
- 5.1.13 In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies (2.5.1 index #225) the results/strategies that apply are as set out in Sections 5.1.14 through 5.1.18 of this FSP.
- 5.1.14 In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies H1 North Thompson Caribou Habitat (2.5.2 index #227) the results/strategies that apply are as set out in Section 5.1.15 of this FSP.
- 5.1.15 ~~Replaced with GAR In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies H1 North Thompson Caribou Habitat (2.5.2 index #228) the results/strategies that apply to the areas of timber harvesting and road construction in FDU's FLN and FLS are:~~
- ~~a. Implement operational timber harvesting guidelines for both late and early winter habitat areas, to ensure forest attributes needed by caribou are maintained. Refer to Kamloops LRMP Timber Harvesting Guidelines for Caribou Habitat in (Appendix 10 of Kamloops LRMP).~~
 - ~~b. Unless:~~
 - ~~i. The felling and removing of trees is required to address trees that have been damaged by fire, insects, disease, or are at risk of damage², and the removal of those trees will not have a material adverse affect on attributes important to Caribou winter range.~~
- 5.1.16 In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies H10 Battle Bluffs Wildlife Habitat (2.5.2 index #250 and #254) the are falls outside of the Holder's FDU's, therefore no results or strategies are proposed.
- 5.1.17 In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies H11 Skull Wildlife Habitat (2.5.2 index #261) the results that apply in each FDU are that the holder of this FSP will not

² As defined under Section 5.7.1 a)

harvest timber or construct road within the zone as it is defined in Figure 10 of the KLRMP as of the date of the Order.

- 5.1.18 In relation to the objective set by government for Special Resource Management – Habitat/Wildlife Management Objectives and Strategies H12 Skwilatin Wildlife Habitat (2.5.2 index #264) the results/strategies are as set out in Section 5.1.9 of this FSP.
- 5.1.19 In relation to the objective set by government for Special Resource Management – Recreation and Tourism Resource Management Objectives and Strategies (2.6.1 index #271) the results/strategies that apply are as set out in Section 5.9 and 5.13 of this FSP, where they may overlap with the Special Resource Management Zone – Recreation and Tourism.
- 5.1.20 In relation to the objective set by government for Special Resource Management – Recreation and Tourism Resource Management Objectives and Strategies (2.6.1 index #277) no approved plans, local processes, or enhanced referrals have been brought forward in FRPA and therefore the holder of this FSP has not set out any results or strategies.
- 5.1.21 In relation to the objective set by government for Special Resource Management – Recreation and Tourism Resource Management Objectives and Strategies (2.6.1 index #296) the results/strategies that apply to the areas of primary forest activity in each FDU are as set out in Sections 5.1.19 and 5.1.20 of this FSP.

Objectives set by Government – Land Act; Land Use Objectives Regulation

5.1.a Old Growth Management Objectives for the Kamloops Land and Resource Management Plan Area

- a. Consistent with the Land Use Objectives Regulation (LUOR) Order titled *Old Growth Management Objectives for the Kamloops Land and Resource Management Plan Area* dated March 5, 2013, (the Order) the holders of this FSP will apply the following result/strategy in FDU's FLN, FLS, FLK, and TFL18.
 - i. Old Growth Management Areas will be maintained consistent with the spatially identified Old Growth Management areas shown on Appendix B Maps #2 and represented in the file residing in the BC Geographic Warehouse under the layer named WHSE_LAND_USE_PLANNING.RMP_OGMA_LEGAL_CURRENT_SVW as updated from time to time, except as required to accommodate the following purposes and as set out in section 5.1.a.b:
 - 1. To prevent the spread of insect infestations or diseases that pose a significant threat to forested areas external to the OGMA,
 - 2. To address safety hazards associated with primary forest activities,
 - 3. To provide guyline clearances and tailhold anchors,
 - 4. To address fuel management concerns and related safety hazards,
 - 5. To provide road access where no alternative practicable option for road location exists, or
 - 6. To facilitate timber harvesting that will result in operationally practicable cutblock boundaries.
 - 7. Where a block was declared prior to submission of this amendment overlaps an OGMA identified in the Order.
 - ii. Except as specified in section 5.1.a.b primary forest activities conducted under Section 5.1.a.a 1 through 6. will be conducted to the minimum extent necessary to

- accommodate the purpose, as documented in a rationale completed by a qualified registered professional and retained on the block file, and
- iii. Except as specified in section 5.1.a.b, primary forest activities conducted under section 5.1.a.a. will not exceed the lesser of two hectares or 10% of an individual OGMA polygon per 20 year time period as identified from a spatial file downloaded from the BC Geographic Warehouse annually by March 31st.
- b. In consideration of Objective 1 of the Order and the incursion limits identified in Section 5.1.a.a.iii of this FSP as they apply to all FDU's, there are foreseeable circumstances when the incursion limits may be exceeded. Where Section 5.1.a.a.iii incursions are exceeded,
- i. A signed and sealed professional rationale will be developed which:
 1. Identifies why all or part of the OGMA is being deleted and replaced,
 2. Identifies the replacement OGMA area,
 3. Describes the original OGMA and replacement OGMA attributes
 4. Describes how the replacement OGMA area is consistent to extent practicable with Objective 1 of the Order.
 - ii. The rationale and spatial file of the deletion and replacement areas will be provided to the responsible agency 3 months in advance of any cutting permit submission for any OGMA modified relative to that permit.

Objectives Set By Government – FRPA s.149

5.2 Soils – FPPR s.5

- 5.2.1 In relation to the objective set by government for soils set out in section 5 of the FPPR, the results/strategies that apply to the areas of primary forest activity in each FDU are the requirements of section 35 & 36 of the FPPR as those sections were on the Date of Submission.

5.3 Wildlife – FPPR s.7

- 5.3.1 In respect of the notice entitled "Indicators of the Amount, Distribution, and Attributes of Wildlife Habitat Required for the Winter Survival of Ungulate Species in the Kamloops Timber Supply Area", issued in May 2004 in accordance with section 7(2) of the FPPR, the results that apply for FDU FLN and FLS are
- a. That the holder of this FSP will not harvest timber or construct road within the Mountain Goat Winter Range area shown on the map which accompanied the order.
- 5.3.2 No notice has been provided under Section 7(2) for the survival of species at risk or the survival of regionally important wildlife, therefore the holder of this FSP has not set out any results or strategies.

5.4 Water, Fish, Wildlife, and Biodiversity within Riparian Areas – FPPR s.8

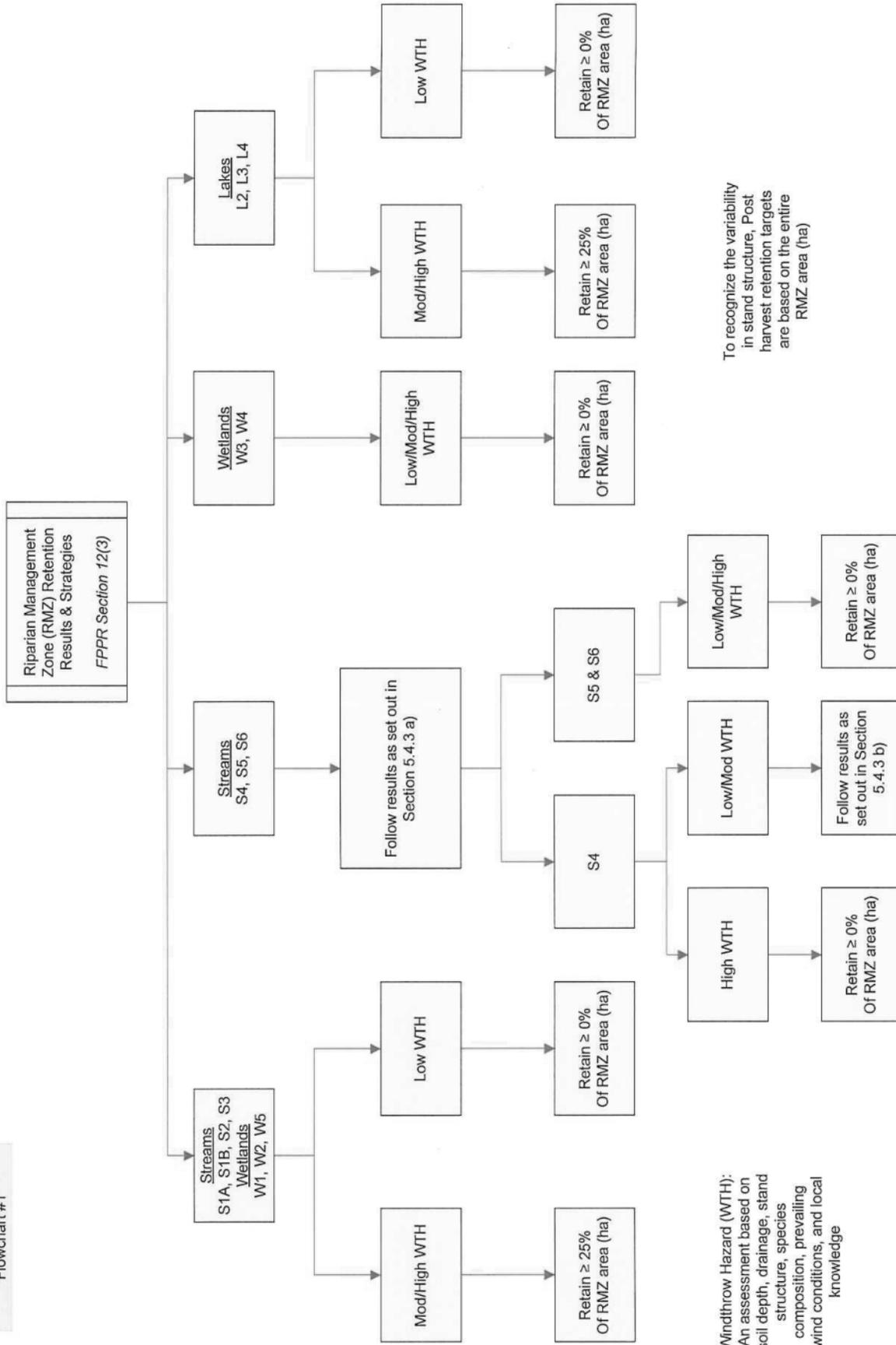
- 5.4.1 In relation to the objective set by government for water, fish, wildlife, and biodiversity within riparian areas set out in section 8 of the FPPR, the results/strategies that apply to the areas of primary forest activity in each FDU are, subject to paragraphs 5.4.2 and 5.4.3, the

requirements of section 47 to 51 and 53 of the FPPR as those sections were on the Date of Submission.

- 5.4.2 Despite paragraph 5.4.1 and section 52(2) of the FPPR and to meet the requirements of 12 (3) of the FPPR, flowchart #1 and Paragraph 5.4.3 details the results and strategies for retention of trees in riparian management zones:
- 5.4.3 Subject to flowchart #1, the results or strategies respecting retention of trees in a riparian management zone are
- a. for areas within 5 m of an S4, S5 and S6 stream, to retain brush species, advanced regeneration, and, at the option of the holder of this FSP, retain danger trees assessed as safe by a qualified danger tree assessor, except where the holder of the FSP is:
 - i. establishing stream crossings,
 - ii. carrying out hand falling,
 - iii. carrying out cable or aerial yarding across or adjacent to the stream
 - iv. tying support or stabilization cables for overhead cable yarding systems, or
 - v. carrying out vegetation management treatments to meet free growing requirements, and
 - b. for areas within 10 m of an S4 stream, to retain over the length of each stream reach within a cutblock, an average of not less than 10 overstory stems on either side of the stream over 100 m of stream length³, unless
 - i. the trees to be retained are infested or diseased by a forest health agent that would spread if the trees were not removed,
 - ii. the stems are within 5 m of either side of a skid crossing, or within the right-of-way of a stream crossing,
 - iii. the stream reach is located in a harvest unit that is being harvested by a cable or an aerial yarding system.
 - iv. there are an insufficient number of overstory stems found within 10 m of the stream in which case the equivalent of existing preharvest overstory trees within 10m of the stream will be retained or
 - v. the trees are removed because they are danger trees or the trees have roots that are embedded in the stream bank.

³ Measurement example: Total # of overstory stems retained / Total length of stream within the block \geq 0.10

Flowchart #1



5.5 Fish Habitat in Fisheries Sensitive Watersheds – FPPR s.8.1

5.5.1 In relation to the objectives set by government for fish habitat in fisheries sensitive watersheds, no objectives have been identified and therefore no results or strategies are specified.

5.6 Water in Community Watersheds – FPPR s.8.2

5.6.1 In relation to the objectives set by government for water in community watersheds set out in Section 8.2 of the FPPR, the results/strategies that apply to the areas of primary forest activity for all FDU's are;

- a. the holder of this FSP will adopt sections 59 through 61 of the FPPR as those sections were on the date of submission of this FSP.
- b. Prior to harvesting or road construction, the holder will ensure an evaluation is completed for the hydrological impacts of forestry related development on:
 - i. the potential for accelerated surface erosion
 - ii. the potential for landslides
 - iii. the potential for changes to peak flow
 - iv. the interaction of these processes and cumulative effects.
- c. If the results of the evaluation conducted in section 5.6.1 b. indicate the Holder's harvesting, road construction, or deactivation will have a material adverse impact on community watershed quality of water above the intake, timing of flow, or on human health, the Holder will, prior to harvesting, road construction, or road deactivation evaluate and modify plans to mitigate any expected material adverse affects that could result from engaging in such activities.
- d. The requirement of the Holder to complete an evaluation under this section is not required under the following circumstances:
 - i. the felling or removal of trees that are a safety hazard, and
 - ii. the felling and removing of trees is required to address trees that have been damaged by fire, insects, disease, or are at risk of damage, and the removal of those trees will not have a material adverse affect on water quality or quantity upstream of the point of diversion.

5.7 Wildlife and Biodiversity (Landscape Level) – FPPR s.9

5.7.1 In relation to the objective set by government for wildlife and biodiversity at the landscape level set out in section 9 of the FFPR, the results/strategies that apply to all FDU's where there is timber harvesting and road construction activity are;

- b. For the purposes of this section, "at risk of damage" means any block of timber planned for harvest containing greater than 40% Lodgepole pine by volume, or any block of timber where the compiled cruise shows the combination of % blowdown, % burn, and % insect damage for conifers to be greater than 20%.
- c. Subject to section 5.7.1 b. and 5.9.2, for the term of this FSP, the holder of this FSP will adopt sections 64 and 65 of the FPPR as those sections were on the date of submission of this FSP, except

- i. Section 64(1) and 65(2) of the FPPR do not apply where a stand contains trees that are at risk of damage and the holder of this FSP designs the block consistent with FPPR section 64(2)(b).

5.8 Wildlife and Biodiversity (Stand Level) – FPPR s.9.1

- 5.8.1 In relation to the objective set by government for wildlife and biodiversity at the stand level set out in section 9.1 of the FPPR, the results/strategies that apply to areas of timber harvesting in all FDU's are:
 - a. If, during the period January 1 to December 31 of the same year, the holder of this FSP completes harvesting on one or more cutblocks to which this FSP applies, then
 - i. There will be wildlife tree retention areas on 80% or more of the cutblocks greater than 5 hectares that were harvested within that period.

5.9 Visual Quality – FPPR s.9.2

- 5.9.1 In relation to the objective set by government for visual quality set out in 9.2 of the FPPR for the scenic areas defined in Appendix B Map #2, the result/strategy for timber harvesting and road construction in FDUs FLN, FLS, and TFL18 is that the holder of this FSP will design cutblocks and roads so that the altered forest landscape is consistent with section 9.2 (2) of the FPPR as it relates to the District of Headwaters visual landscape inventory dated 1999, as that section was on the Date of Submission unless;
 - a. no other practicable option exists to provide road access to timber to ensure the holders of the FSP can exercise their timber harvesting rights,
 - b. it is unachievable if forest health factors in the area are to be address and the design of the cutblock or road, to the extent practicable, mimics naturally occurring landscape characteristics and, subject to Section 5.9.2 a., exhibits elements of good visual design, or
 - c. the block or road is designed as part of a visual rehabilitation plan developed for the area.
- 5.9.2 In relation to the objective set by government as set out in section 5.1.10 b) for areas outside the scenic areas defined in Appendix B Map #2 the result/strategy for FDUs FLN, FLS, FLK, and TFL18 is that the holder of this FSP will design cutblocks and roads so that the altered forest landscape may dominate the viewscape, but will borrow from natural line and form to such an extent and on such a scale as to be compatible with natural occurrences except where:
 - a. As determined by a qualified registered professional, the external and internal boundary locations are limited by:
 - i. a road location,
 - ii. an old growth management area,
 - iii. harvest machinery limitations,
 - iv. riparian management results or strategies as set out in Section 5.4 of this FSP,
 - v. block size restrictions as set out in Section 5.7.1 of this FSP,
 - vi. timber merchantability, or
 - vii. retention limits as set out in Section 5.8 of this FSP.

5.10 Cultural Heritage Resources (CHR's) – FPPR s.10

- 5.10.1 In relation to the objective set by government for cultural heritage resources set out in the section 10 of the FPPR and to be consistent with the objective set out in section 5.1.11 of this FSP, the results/strategies that apply to each FDU are:
- a. For the purposes of this section "Archaeological evaluation" means an office review that may entail subsequent field work by a qualified First Nations representative or archaeologist.
 - b. before a holder constructs a road or harvests a cutblock, the holder will ensure that an opportunity is provided for an archaeological evaluation to be carried out for areas within the cutblock or road right of way:
 - i. that contain previously identified archaeological resources, where this information is provided digitally to the holder of this FSP by the Archaeology Branch of the Government of British Columbia, or;
 - ii. that are identified as having "high, medium-high, or medium potential" within an established archaeological predictive map or model for the area, or;
 - iii. for which site-specific information regarding archaeological resources is brought forward or made available to the holders of this FSP, by an aboriginal people or government.
 - c. If a previously unidentified archaeological resource is encountered during harvesting or road construction, operations will cease to the extent necessary to protect the feature, until an archeological assessment can be carried out, and
- 5.10.2 If a Holder of this FSP plans to develop cutblocks or roads to which an FDU of this FSP applies and is within the area where a First Nation group is affected by the plan, the Holder of the FSP will:
- (a) Notify that First Nation, on an annual basis, of areas where within the affected area any such planned new cutblock and road development may occur, and within that notice;
 - (i) Request from that First Nation information regarding any CHR located in the areas referred to in sub clause (a)(ii)(B);
 - (ii) Offer to meet with that First Nation on an annual basis and, if they accept, then:
 - (A) Make reasonable efforts to meet; and
 - (B) At such a meeting, review information provided to that First Nation under subparagraph (a) for those areas within the affected area where that holder of the FSP may plan new cutblock and road development.
 - (b) If a First Nation identifies to the holder of the FSP the existence of a CHR in an area that the Holder of the FSP has identified under subparagraph (a) prior to that Holder of the FSP making an application for a CP or RP, to which this FSP applies, in respect of that area:
 - (i) Offer to discuss with the First Nation the specific location of the CHR in relation to the planned development,
 - (ii) Evaluate, utilizing a qualified individual, whether or not the item identified is a CHR and, if it is, evaluate the direct impact of the planned development on the CHR based on:
 - (A) the relative value or importance of the CHR to a traditional use by the First Nation;
 - (B) the relative abundance or scarcity of the CHR;
 - (C) the historical extent of the traditional use of the CHR;
 - (D) the impact on the timber harvesting rights of the Agreement Holder that are subject to this FSP of conserving or protecting the CHR; and
 - (E) options for mitigating the impact of the harvesting or road construction on the CHR;

- (c) if an evaluation under subparagraph (b)(ii) determines that the planned development will cause a CHR to be unavailable for its continued use, then, to the extent it is practicable to do so, having regard to the evaluation under subparagraph (b)(ii)(A - E), alter the design of the relevant cutblocks or roads to conserve or, if necessary, protect the CHR;
- (d) if no CHR information is received from a First Nation, as a result of subparagraph (a), then for an area that the Agreement Holder has identified under subparagraph (a) the Agreement Holder will utilize any CHR information previously identified and provided or made available, prior to that FSP Holder making an application for a CP or RP, and then apply subparagraphs(b)(ii) and (c) to that CHR; and

If a previously unidentified CHR is encountered after Cutting Permit or Road Permit issuance, modify or stop work to the extent necessary to protect the cultural heritage resource, then apply subparagraphs (b)(ii) and (c) to that CHR.

Grandparented Objectives – FRPA s.181

5.11 Objectives in respect of Ungulate Winter Range

- 5.11.1 No ungulate winter range objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results/strategies are specified.

5.12 Objectives in respect of Wildlife Habitat Areas

- 5.12.1 No wildlife habitat area objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results/strategies are specified.

5.13 Objectives in respect of a Scenic Area

- 5.13.1 In relation to the objective set by government for Scenic Areas the results/strategies that apply to FDU FLK are that the holder of this FSP will design cutblocks and roads so that the altered forest landscape is consistent with the established visual quality objectives, as they were on the Date of Submission, within the scenic area boundary as it is defined on the FSP Content Map(s) #2, unless otherwise as described in Section 5.9.1 a) though e).

5.14 Objectives in respect of an Emergency Bark Beetle Management Area

- 5.14.1 No Emergency Bark Beetle Management Area objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results/strategies are specified.

5.15 Objectives in respect of Community Watersheds

- 5.15.1 No community watershed objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results or strategies are specified.

5.16 Objectives in respect of an area with Significant Downstream Fisheries Values

- 5.16.1 No significant downstream fisheries value objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results or strategies are specified.

5.17 Objectives in respect of an area with Significant Watershed Sensitivity

- 5.17.1 No significant watershed sensitivity objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results or strategies are specified.

5.18 Objectives in respect of a Lakeshore Management Zone

- 5.18.1 No lakeshore management zone objectives have been brought forward under section 181 of the FRPA that apply to the FDUs of this FSP and therefore no results or strategies are specified.

5.19 Objectives in respect of an Interpretive Forest Site

- 5.19.1 In relation to the objectives for the Isobel Lake Interpretive Forest Site, the site falls outside of the holders FDU's so no results or strategies are specified.

5.20 Objectives in respect of Recreations Sites and Recreation Trails

- 5.20.1 In relation to the objectives referred to in section 181 of the FRPA for recreation sites and recreation trails, and in addition to those results/strategies set out in other sections of this plan, the results/strategies that apply to each FDU in respect of cutting permits and road permits held by the holder of this FSP, except where the recreation site or trail is established over or adjacent an existing road location, are;
- a. If harvesting or road construction is proposed within a recreation site or trail, or within 100 m of an established recreation site or within 50 meters of a recreation trail, the holder will ensure within that zone that;
 - i. no harvesting occurs adjacent to the recreation site if stand damage from forest health factors is less than 20% of the volume per hectare;
 - ii. understory retention will be used adjacent to recreations sites and trails if stand damage from forest health factors is greater than or equal to 20% of the volume per hectare;
 - iii. clear cutting may be used if stand damage from forest health factors is greater than 40% of the stems per hectare;
 - iv. temporary road construction or access control is implemented within a 100 meter buffer of the site or trail,
 - v. any damage to the recreation site or trail due to road construction or harvest activities by the holders of this FSP within the 100 m buffer will be repaired.
 - b. If the holder has a road permit for the only access route to a recreation site identified in Table 3, and subject to FPPR section 81 as it was on the date of submission, the holder will not restrict summer access as a result of deactivation activities, except for temporary closures to repair or replace roads and bridges. The following table lists the applicable road permits:

Table 3.

General Location	Recreation Feature	Licence	Road Permit Number	Road	Road Status	Major Structures or Bridges
Lolo Lake	Site	FL A18688	R06104	31	Active	-
Moira Lake S.	Site	TFL 18	R06112	40A	Inactive	Bridge K750
Ejas Lake	Site	TFL 18	R06112	9	Active	-
Kitty Ann Lake	Site	TFL 18	R06112	231	Active	-
McCorvie Lake N.	Site	FL A18688	R14702	1490	Active	-

White Lake	Site	TFL 18	R06112	10	Active	-
Windy Lake	Site	TFL 18	R06112	10	Active	-
Boundary Lake	Site	TFL 18	R06112	7B	Active	Bridge
East Maury Lake	Site	TFL 18	R06112	9	Inactive	-
Moira Lake North	Site	TFL 18	R06112	91	Inactive	-
Grizzly Lake East	Site	TFL 18	R06112	3	Inactive	-
Moose Lake	Site	TFL 18	R06112	10	Active	-

6 MEASURES

6.1 Measures for Preventing the Introduction or Spread of Invasive Plants

- 6.1.1 In relation to the measures referred to in section 17 of the FPPR for preventing the introduction or spread of invasive plants, the measures for all FDUs are;
- a. The holder of this FSP will annually review the appropriate governments Invasive Alien Plants database and note the locations of infestations relative to proposed primary forest activities,
 - b. Using the information resulting from subsection a), will identify areas of high risk to invasive plant introduction or spread from harvesting or road construction operations,
 - c. Will ensure that the holders woodlands staff are trained in the recognition of invasive plants prior to conducting work for the Holder, and
 - d. When conducting harvesting or road construction operations the holder of this FSP will ensure that disturbed areas are,
 - i. Re-vegetated within one year following disturbance on high risk sites identified in b) above, and
 - ii. Re-vegetated within two years for all other sites, and
 - iii. The seed mix used in all grass seeding activities shall meet or exceed Canada Common #1 Forage Mixture specifications as defined by the Canada Seeds Act.

6.2 Measures to Mitigate the Loss of Natural Range Barriers

- 6.2.1 In relation to the measures referred to in section 18 of the FPPR to mitigate the effect of removing or rendering ineffective natural range barriers, the results/strategies for all FDUs are
- a. Each year under the term of this FSP, the areas within FDUs that are occupied by or adjacent to range tenures authorized by an enactment will be updated from information gathered from district range staff,
 - b. Any range tenure holder identified under 6.2.1 a above that has not been previously informed of this FSP will be informed of this FSP within 3 months of updating the range tenures as a result of 6.2.1 a. and,
 - c. Where, as a result of Section 5.1.6 a), the range tenure holder indicates that the planned development will remove or render ineffective a natural range barrier, reasonable efforts will be made to come to agreement with the range tenure holder(s) and to implement measures as agreed.

7 STOCKING REQUIREMENTS

Legal Reference: FPPR Section 16

7.1 General Standards

Where a holder of this FSP is required under the Act and regulations to establish a free growing stand in respect of timber harvesting governed by this FSP, the holder will on all cutblocks, subject to Paragraph 7.2 do so in accordance with the regeneration and free growing stocking standards in Appendix A.

For the purposes of the Free Growing stocking standards, all coniferous species listed as primary, secondary, or tertiary in the Reference Guide to FDP Stocking Standards – Kamloops Forest Region, Caribou Forest Region, and Prince George Forest Region as applicable, dated December 11, 2002 will be considered preferred species.

For the purposes of the Regeneration Delay and Free Growing stocking standards Lw will contribute a maximum of 30% toward target stocking density.

7.2 Variations from General Standards

Despite Paragraph 7.1, a holder of this FSP may apply the following stocking standards in the following circumstances:

- 7.2.1 Regeneration delay will be 7 years where natural regeneration is the primary reforestation method.
- 7.2.2 Non rust resistant white pine or naturally regenerated white pine will be pruned to a height of 1.3 metres to reduce risk of white pine blister rust. This will occur when white pine accounts for more than 5% of the required stems per hectare to meet free growing; if less than 5% is required, pruning will not occur and the white pine will be deemed acceptable. Only rust resistant white pine will be planted.
- 7.2.3 In FDU's FLK, FLS, and TFL 18, in the SBS, ESSF, and ICH zones between 1000 and 1500 meters elevation where White Pine Weevil (*Pissodes strobi*) having attack levels > 10%⁴ is identified in a plantation containing > 30% spruce, aspen and birch will not be considered detrimental competition to spruce crop trees as long as the HDR of the spruce crop trees are less than 60 when conducting a free growing survey.
- 7.2.4 Aspen, cottonwood, birch, willow and alder within the 5 meter machine free zone of a temperature sensitive stream, or a S4, S5, or S6 stream, are not considered deleterious brush competition when conducting a free growing survey.
- 7.2.5 With respect to Mule Deer,
 - a. Western larch planted in Critical Mule Deer Winter Range defined in Figure 4 of the KLRMP as it was on the date of the Order may only make up a maximum of 50% of the total target stocking on those standard units planted.
- 7.2.6 The maximum density for Lodgepole Pine leading stands is 25,000 countable stems per hectare.
- 7.2.7 For all other species and for stands with ≤ 80% Lodgepole Pine the maximum density is 10,000 countable stems per hectare.

⁴ >10% is defined as % of spruce attacked /total spruce.

- 7.2.8 Where the MITD is 2.0 metres the MITD may be reduced to 1.6 metres for areas;
- i. Where stumping or mounding site preparation treatments are conducted, or
 - ii. Where surface or sub-surface rock limits plantable spot selection of the site, or
 - iii. Where there is high congregation and use by cattle, or
 - iv. Where heavy slash loading exists, or
 - v. Cable terrain where stumping cannot be conducted to manage root rot, or
 - vi. Sites where stump avoidance during planting is a root rot management strategy, or
 - vii. To facilitate obstacle planting in areas within the Mule Deer UWR units as identified in Appendix B, or
 - viii. Riparian areas with a high component of residual stems.
- 7.2.9 To remain consistent with the result/strategy as set out in Section 5.1.9 of this FSP, within KLRMP Critical Moose Winter Range in figure 4 of the Kamloops LRMP as it was on the Date of Submission of this FSP;
- a. Aspen, willow, cottonwood, birch and red osier dogwood will not be considered detrimental competition to crop trees at free growing if they are no more than 10 meters from the edge of a permanent road prism, or a W1, W2, or W5 wetland identified as visible from a permanent road.

SIGNATURES of Persons required to prepare plan

<p>Preparing Forester</p> <p><i>"I certify that I have determined that this work was performed to an acceptable standard"</i></p>	
	<p><i>Daniel Arsenault</i> No. 029-4340 Forestry Supervisor Vavenby Division Canadian Forest Products</p>

<p>Authorized Licensee Signature:</p>	
	<p><i>Allison Andersen, R.P.F.</i> Vavenby Division Operations Manager Canadian Forest Products Ltd. Signing Authority</p>

**APPENDIX A
REGENERATION AND FREE GROWING STOCKING STANDARDS**

FRPA Section 197(5) Blocks for which FSP Stocking Standards apply

Tenure	Cutting Permit	Block ID	Applicable FDU
FL A18688	187	1, 2, 4	FLN
TFL 18	262	B108	TFL18
FL A18688	805	1, 2, 3, 6	FLK
FL A18688	807	1, 2, 3, 4, 5	FLK
FL A18688	848	2.1, 2.2, 6, 16	FLK
FL A18688	624	S121	FLS
FL A18688 / TFL 18	633/256	B103	FLS/TFL18
FL A18688	635	S238, S243	FLS
FL A18688	636	M153	FLS
FL A18688	638	S208, S209	FLS
FL A18688	125	N123, L148, R153	FLS
FL A18688	506	R150	FLS
FL A18688	523	N130, N131, N132	FLS
TFL 18	261/266	M146, M151	TFL18
FL A18688	637	S245, S246, S113	FLS
TFL 18	263	M160, M161, M162	TFL18
TFL 18	264	D141	TFL18
TFL 18	265	I100, I104, I115	TFL18
FL A18688	524	R194	FLS
FL A18688	525	R199	FLS
FL A18688	310	U101, U111, U126, U127	FLN
FL A18688	518	N121, N124, N127	FLS
FL A18688	519	N122	FLS
FL A18688	520	F107, F108, F109	FLS
FL A18688	521	N126, N133	FLS
TFL 18	247	D110	TFL18
TFL 18	255	D100	TFL18
TFL 18	257	M128, M143, M145, M147, M148, M149, M152	TFL18
TFL 18	258	D131, D132	TFL18
TFL 18	259	M125, M153	TFL18
TFL 18	260	D130	TFL18

Aubrey, Michelle FLNR:EX

From: Groom, Andy <Andrew.Groom@canfor.com>
Sent: Friday, September 5, 2014 8:04 AM
To: Reiter, Clinton FLNR:EX
Subject: CANFOR FLA18688 t106 cruise plan
Attachments: cp_letter.doc; cruiseplan_15693.doc; 3l_t106.pdf

Hi Clint

Here is the cruise plan for t106

Thanks
Andy

Forestry Supervisor
Vavenby Division



250-676-1137

andy.groom@canfor.com



Canadian Forest Products Ltd.
Vaverby Division
Box 39
Vaverby, British Columbia
Canada V0E 3A0
Fax (250) 676-9455
Tel. (250) 676-1137
Andy.groom@caqfor.com

August 31, 2016

District Manager
Ministry of Forests
1265 Dalhousie Drive
Kamloops BC
Attn: Clint Reiter

RE: Cruise Plan Submission –FL A18688 T106

Dear Clint

Please find attached the cruise plan for the above block.

Contact the undersigned should you have any questions or concerns.

Yours truly,
Canadian Forest Products Ltd. - Vaverby Division

Andrew Groom RFT.
Forestry Supervisor



PROVINCIAL CRUISE PLAN

TENURE: FL A18688	CRUISE BASE
C.P.: T106	OR SCALE BASE
Base Map # 82M071	SCALE

A. ATTENTION:
 District Manager: Rick Sommer
 Licensee: Canfor
 Geographic Location: Trophies
 TSA: Kamloops PSYU: 183 FIZ: G
 Coast: Immature
 Inv. Reg. No: 57
 Maturity: 1
 Both: 2
 Contact: Andy Groom
 Cruise Area (ha): 47.7

B. CRUISING AGENCY:
 Agency Name: KDC Forestry
 Cruiser Name (if known):
 Address: (250) 674-0249
 Name: Canfor
 Address: (250) 676-9618

C. TENTATIVE CRUISE DATES:
 From: May 2014
 Proposed Years of Logging: 2009/2010
 To: Dec 2014
 Access: Vehicle

D. HARVESTING SYSTEM:
 Harvesting System: Conventional
 Systematic Grid: Yes

E. PLOT NO:
 Measure Plots: 22 Count Plots: 21 Estimated C.V.: 45 S.E. Waived (Y/N): No
 Grid Spacing (in m) 100 by 100
 PLOT TYPE: Prism/Release Scope Prism Fixed Area: No Plot Size (ha): N/A
 1. Segregate silv. System (patch clearcut, seed tree, pole and coarcing size)

F. MINIMUM DIAMETER LIMITS:
 Field Tally
 Maturity Immature
 Species (cm to) Exemption (cm)
 P1: 12.5 Other: 17.5
 P1: 12.5 Other: 17.5
 P1: 12.5 Other: 17.5

G. MARKING

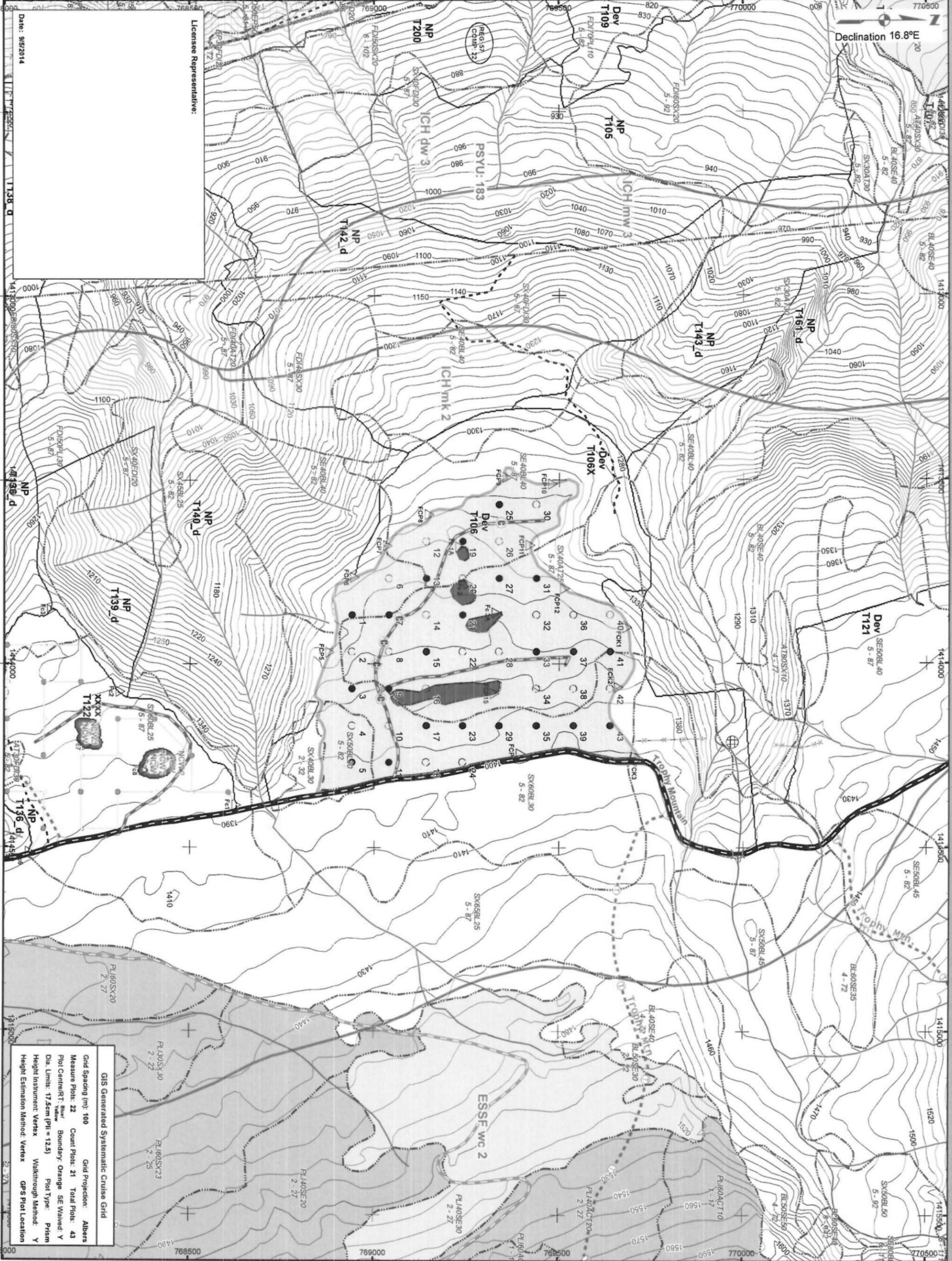
Ribbon Colour	Paint Colour	Axe Blaze	Other (tags)
Boundaries Orange	N/A	No	No
Baseline Blue	N/A	No	No
Strips Blue	N/A	No	No
Plot Centre Blue/Yellow	N/A	No	No
Tie Points Blue	N/A	No	No
Non Forest Types SMZ	N/A	No	No
Riparian Areas SMZ	N/A	No	No
Wildlife Tree Patches SMZ	N/A	No	No
Other			

H. TREE HEIGHTS: (TOTAL HEIGHT METHOD IS MANDATORY)
 Height Estimation Method (ocular, vertex, etc.): Ocular
 Height Measuring Instrument (clinometer, hypsometer, etc.): Vertex

I. OTHER:

Comments:
 Note: The original traverse notes must be provided to Forest Service staff upon request.
 Signed: Andrew Groom 1871
 Authorized Licensee Representative RPP/RT/ATO or ATE Number Date: Sept 5, 2014
 Are block(s) in an approved Forest Stewardship or Forest Development Plan? Yes

Declination 16.8°E



Licensee Representative:

Date: 9/5/2014

GIS Generated Systematic Cruise Grid

Grid Spacing (m): 100
 Measure Plots: 22
 Plot Center/RT: Bluff
 Dia. Limit: 1/25cm (PII = 12.5)
 Height Instrument: Vertex
 Height Estimation Method: Vertex

Grid Projection: Albers
 Count Plots: 21
 Boundary: Orange SE Waved: Y
 Plot Type: Prism
 Walkthrough Method: Y
 GPS Plot Location

Block Information

Gross Area (ha): 50.6
 Cruise Area (ha): 47.7
 Forest Region:
 Forest District:
 Operating Area: Third Canyon
 Harvest Method: Clearcut - Reserves
 Billing Method:
 TSA:
 FIG: G PSYU 193 Inv. Reg. No: 57
 Mapsheet: 082M071
 Comp'l. No: 22

Legend

Cruise Information

- Full Measure Plot
- Count Plot
- Drop Plot
- POC
- % Slope Arrow
- Tight Chain Traverse
- Species and Percent
- Propagated Age Class
- Propagated Age Class

Management Area

- Block Of Interest
- Block Boundary
- Reserves
- Non-Productive
- NCBR
- Landscape
- Level Retention
- Private Land
- Ecofore Reserve
- Previously Harvested
- Substantially Restocked
- Free Growing
- Opening
- Whoofot
- Private Land
- Parcs, Protected Areas
- Harvested
- Restocked
- Opening

Roads/Trails

- Paved
- Gravel Main
- Operational
- Spur
- Deactivation
- Temp Constructed
- Temp Proposed
- Operational Trail
- Proposed
- Other

Structures

- Existing Bridge
- Proposed Bridge
- Existing Pipe Arch
- Existing Culvert
- Landing
- Remove Structure
- Cattle Guard
- Shulbackspig Xing
- Railway Crossing
- Designated Crossing
- Access Control
- IM Marker
- Pipeline Crossing
- Pipeline Xing Multiple
- Proposed Crossing
- Access Control

Hydrology

- Wetland
- Lake/River
- Fish Bearing
- Drainage
- Intermittent Contour
- Spot Height
- Index Contour
- Intermittent Contour
- Spot Height

Other Features

- Fence
- Rail Line
- Setback/Out line
- Pipeline
- Transmission/Power Line
- Wellhead
- Cultural Heritage Area
- Boundary Station
- Cultural Heritage Feature
- Culturally Modified Tree
- Wildlife Feature
- Cultural Heritage Area

Cruise Area Summary (ha)

Timber Type	Label	Clearcut	Select	Total
<input type="checkbox"/> Type 1		47.7		47.7
Cruise Area				
NP (Natural)		47.7		
NCBR		0		
Logged		0		
Right Of Way/Road Permit/Landings		0.9		
NP (OI and Gas)		0		
Reserve		2		
Non Merchantable				
		2.9		
Total Area				
		50.6		

Map Date: 9/5/2014
 Created By: Geom, Amy
 Tentative Cruise Dates: From: 05-Sep-2014 To: 05-Mar-2015
 Scale = 1:10,000

Aubrey, Michelle FLNR:EX

From: Groom, Andy <Andrew.Groom@canfor.com>
Sent: Saturday, October 18, 2014 12:36 PM
To: Reiter, Clinton FLNR:EX
Subject: CANFOR cruise plan T113
Attachments: 3l_t113.pdf; cp_letter.doc; cruiseplan_fs693.doc

Hi Clint

Here is the cruise plan for t113 within FLA18688

Thanks
Andy



Canadian Forest Products Ltd.
Vaverby Division
Box 39
Vaverby, British Columbia
Canada V0E 3A0
Fax (250) 676-9455
Tel. (250) 676-1137
Andy.groom@caqfor.com

August 31, 2016

District Manager
Ministry of Forests
1285 Dalhousie Drive
Kamloops BC
Attn: Clint Reiter

RE: Cruise Plan Submission –FLA18688 t113

Dear Clint

Please find attached the cruise plan for the above block.

Contact the undersigned should you have any questions or concerns.

Yours truly,
Canadian Forest Products Ltd. - Vaverby Division

Andrew Groom RFT,
Forestry Supervisor



PROVINCIAL CRUISE PLAN

TENURE: FLA 18688	CRUISE BASE
C.P.: T113	OR SCALE BASE
	SCALE

Base Map # 82M090

A. ATTENTION:
 District Manager: Rick Sommer
 Licensee: Canfor
 Contact: Andy Groom
 Cruise Area (ha): 135.6

Geographic Location: Trophies
 TSA: Kamloops PSYU: 183 FZ: G Inv. Reg. No: 57 Compl. No: 2 2
 Coast: Irrigation: Mature: 1 Bolt: 1

B. CRUISING AGENCY: KDC Forestry
 Agency Name: KDC Forestry Name: Canfor
 Cruiser Names (if known): (250) 674-0249 Address: (250) 676-9518

C. TENTATIVE CRUISE DATES:
 From: Oct 2014 To: Dec 2014
 Proposed Years of Logging: 2009/2010 Access: Vehicle

D. HARVESTING SYSTEM:
 Harvesting System: conventional
 Systematic Grid: Yes

E. PLOT NO:
 Measure Plots: 47 Count Plots: 46 Estimated C.V.: 60 S.E. Waived (Y/N): No
 Grid Spacing (in m): 120 by 120 200 x 200 m if cruise < 250 ha
 250 x 250 m if cruise ≥ 250 ha
 PLOT TYPE: Prism/Release: Prism Fixed Area: No Plot Size (ha): N/A

F. MINIMUM DIAMETER LIMITS:
 Maturity Immature Species (cm to) Exemption (cm)
 Field Tally Pi: 12.5 Other: 17.5
 Compilation - Appraisal (cm) Pi: 12.5 Other: 17.5
 Compilation - Cutting Permit (cm) Pi: 12.5 Other: 17.5

G. MARKING		Ribbon Colour	Paint Colour	Axe Blaze	Other (tags)
Boundaries	Orange	N/A	No	No	No
Baseline	Blue	N/A	No	No	No
Stripes	Blue	N/A	No	No	No
Pilot Centre	Blue/Yellow	N/A	No	No	No
Tree Points	Blue	N/A	No	No	No
Non Forest Types	SMZ	N/A	No	No	No
Riparian Areas	SMZ	N/A	No	No	No
Wildlife Tree Patches	SMZ	N/A	No	No	No
Other					

H. TREE HEIGHTS: (TOTAL HEIGHT METHOD IS MANDATORY)
 Height Estimation Method (ocular, vertex, etc.) Ocular Height Measuring Instrument (clinometer, hypsometer, etc.) Vertex

I. OTHER:
 Comments:
 Note: The original traverse notes must be provided to Forest Service staff upon request.
 Signed: Andrew Groom 1671 Oct 18, 2014
 Authorized Licensee Representative RPR/RFL/ATC or ATE Number Date:
 Are block(s) in an approved Forest Stewardship or Forest Development Plan? Yes

SECTIONS J, K, L (TO BE FILLED OUT WHEN REQUIRED)

J. STRATIFIED SYSTEMATIC SAMPLING: (Calculate sampling requirements for each timber type)

Type No.	Type Description	BEC Subzone Variant	Plot/Prism size	Type Area (ha)	Average m ³ /ha	Estimated Vol./Type m ³	Type Vol. % of Total Vol.	Estimated Type CV	Weighted Type CV	Total Plots/CP	Grid Spacing
A B C D E F G H											
1	PISABa	ICH mk2		135.6						Refer to	
2										Sections	
3										2.4, 2.5	
4										Provincial	
5										Cruising	
6										Manual	
7											
				Tot. Has	135.6	Tot. Vol.		Tot. Weighted CV			

EXPLANATION OF FORMULA

$C = A \times B$ $D = \frac{C}{X} \times 100$ $E =$ cruising manual, section 2.62
 Variable Plot Fixed Plot $G =$ cruising manual $H = \sqrt{\frac{\text{Total hectares} \times 10,000}{G(\text{number of plots})}}$
 $F = D \times E$ $F = A \times E$ section 2.4, 2.5

K. SOURCE OF CV ESTIMATES

- Type 1: _____
- Type 2: _____
- Type 3: _____
- Type 4: _____
- Type 5: _____
- Type 6: _____
- Type 7: _____

L. INSTRUCTIONS FOR SECTIONS

- A** Enter district and tenure information.
 - B** Enter the name and address of the cruising and compiling agencies.
 - C** Enter the tentative start and completion dates of the field work.
 - D** Enter yes beside applicable headings.
 - E** Enter the number of plots and the grid spacing.
 - F** Enter the diameter limits measured and compiled to, and prism BAF.
 - G** Enter the colour(s) of paint and flagging used, and the type of blazing and plot tags.
 - H** Enter the appropriate height estimation method, and height measuring instrument used.
 - I** Enter remarks if required. Signature and date are mandatory.
 - J** **OPTIONAL.** Enter data ONLY if stratified systematic sampling is used. Type description – include: species/ age class/ height class/ site quality.
 - K** **OPTIONAL.** Enter source of CV estimates.
 - ATTACH: CRUISE PLAN MAP.** Drawn to 1:5,000 or 1:10,000 scale, topography, (streams and roads), air photo numbers, strips and baselines, plot locations, boundaries, area in the merch and total by cut block, label the cut block (mature or immature). **MUST BE SUBMITTED WITH THIS FORM.**
- AERIAL PHOTOGRAPH:** Submit a copy with timber typing.

Aubrey, Michelle FLNR:EX

From: Groom, Andy <Andrew.Groom@canfor.com>
Sent: Friday, October 3, 2014 1:25 PM
To: Reiter, Clinton FLNR:EX
Subject: CANFOR FLA18688 t121 cruise plan
Attachments: 3l_t121.pdf; cp_letter.doc; cruiseplan_fs693.doc

Hi Clint

Here is the cruise plan for t121

Thanks
Andy



Canadian Forest Products Ltd.
Vavenby Division
Box 39
Vavenby, British Columbia
Canada V0E 3A0
Fax (250) 676-9455
Tel. (250) 676-1137
Andy.groom@caqfor.com

August 31, 2016

District Manager
Ministry of Forests
1265 Dalhousie Drive
Kamloops BC
Attn: Clint Reiter

RE: Cruise Plan Submission –FLA18688 t121

Dear Clint

Please find attached the cruise plan for the above block.

Contact the undersigned should you have any questions or concerns.

Yours truly,
Canadian Forest Products Ltd. - Vavenby Division

Andrew Groom RFT.
Forestry Supervisor



PROVINCIAL CRUISE PLAN

TENURE: FLA18688	CRUISE BASE
C.P.: T121	OR SCALE BASE
Base Map # 82M071	SCALE

A. ATTENTION:

District Manager: **Rick Sommer** Contact: **Andy Groom**
 Licensee: **Canfor** Trophies

Geographic Location: **Canfor** TSA: **183** PSYU: **183** FIZ: **G** Inv. Req. No.: **57** Compl. No.: **2 2**
 Coast: **Immature:** **Mature:** **1** **Both:**

B. CRUISING AGENCY:

Agency Name: **KDC Forestry** Name: **Canfor**
 Cruiser Names (if known): Address: Address: **(250) 676-9518**

C. TENTATIVE CRUISE DATES:

From: **Oct 2014** To: **Dec 2014**
 Proposed Years of Logging: **2015** Access: **Vehicle**

D. HARVESTING SYSTEM:

Harvesting System: **conventional**
 Systematic Grid: **Yes**

E. PLOT NO.:

Measure Plots: **18** Count Plots: **17** Estimated C.V.: S.E. Waived (Y/N): **yes**
 Grid Spacing (m): **100** by **100** 200 x 200 m if cruise < 250 ha
 PLOT TYPE: **Pism/Relascope:** **Pism** Fixed Area: **No** Plot Size (ha): **N/A**

F. MINIMUM DIAMETER LIMITS:

Field Tally Mature Immature Species (cm to) Exemption (cm)
 Compilation - Appraisal (cm) **PI: 12.5 Other: 17.5**
 Compilation - Cutting Permit (cm) **PI: 12.5 Other: 17.5**

G. MARKING

Boundaries	Ribbon Colour	Paint Colour	Axe Blaze	Other (tags)
Boundaries	Orange	N/A	No	No
Baseline	Blue	N/A	No	No
Strips	Blue	N/A	No	No
Pilot Centre	Blue/Yellow	N/A	No	No
Tie Points	Blue	N/A	No	No
Non Forest Types	SMZ	N/A	No	No
Riparian Areas	SMZ	N/A	No	No
Wildlife Tree Patches	SMZ	N/A	No	No
Other				

H. TREE HEIGHTS: (TOTAL HEIGHT METHOD IS MANDATORY)

Height Estimation Method (ocular, vertex, etc.) Ocular Height Measuring Instrument (clin, hypsometer, etc.) Vertex

I. OTHER:

Comments:
 Note: The original traverse notes must be provided to Forest Service staff upon request.
 Signed: **Andrew Groom** 1671 October 3rd, 2014
 Authorized Licensee Representative RPP/RT/ATC or ATE Number Date:
 Are block(s) in an approved Forest Stewardship or Forest Development Plan? **Yes**

SECTIONS J, K, L (TO BE FILLED OUT WHEN REQUIRED)

J. STRATIFIED SYSTEMATIC SAMPLING: (Calculate sampling requirements for each timber type)

Type No.	Type Description	BEC Subzone Variant	Plot/Prism size	Type Area (ha)	Average m ³ /ha	Estimated Vol/Type m ³	Type Vol % of Total Vol	Estimated Type CV	Weighted Type CV	Total Plot/CP	Grid Spacing
A	B	C	D	E	F	G	H				
1	PISXBA	ESSFWC ₂		33.2						Refer to	
2										Sections	
3										2.4, 2.5	
4										Provincial	
5										Cruising	
6										Manual	
7											
			Tot. Ha's	33.2	Tot. Vol		Tot. Weighted CV				

EXPLANATION OF FORMULA

$C = A \times B$

$D = \frac{C}{X} \times 100$
Sum C1...7

$E =$ cruising manual, section 2.62

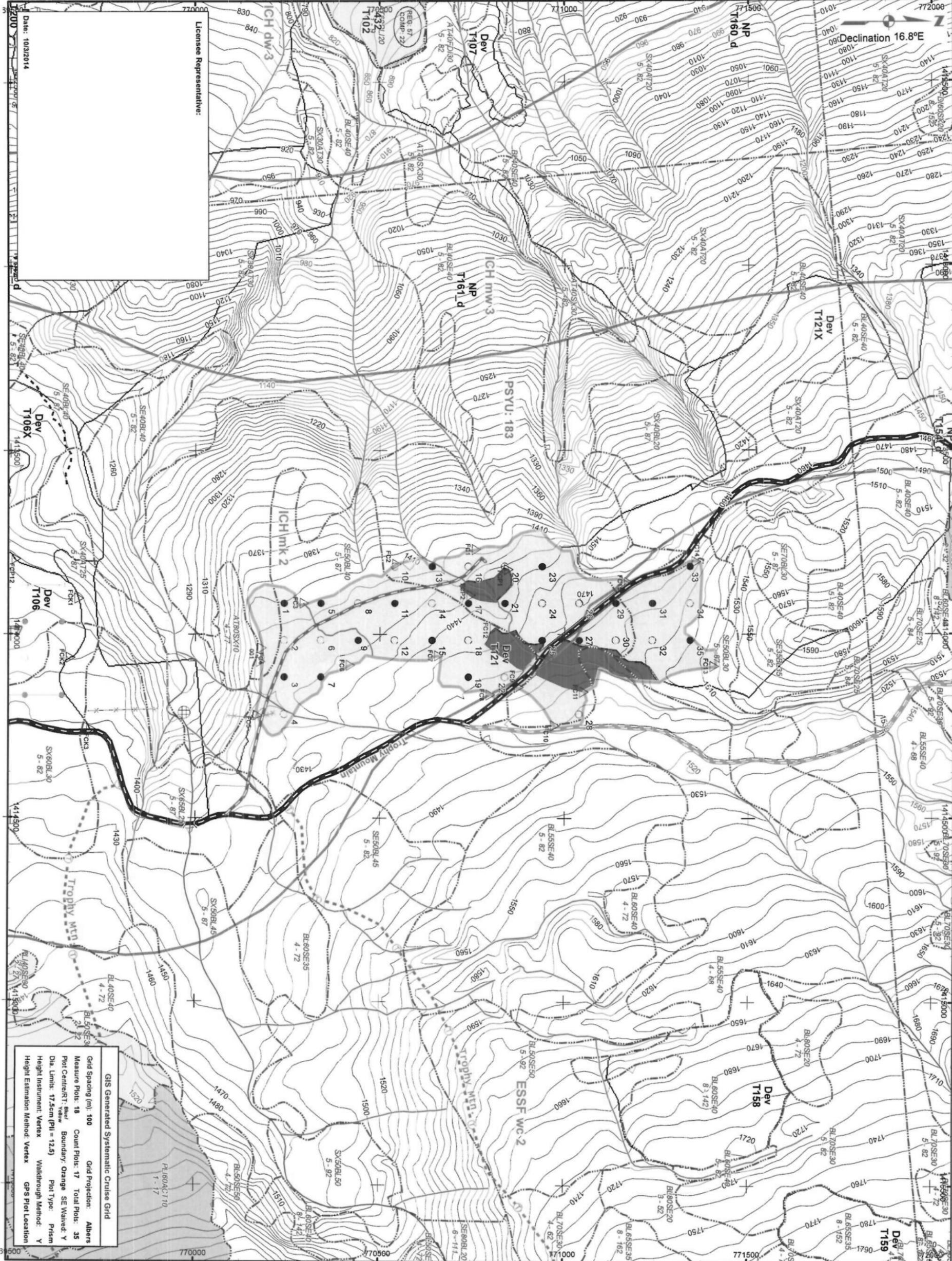
Variable Plot $F = D \times E$ Fixed Plot $G =$ cruising manual section 2.4, 2.5 $H = \sqrt{\frac{\text{Total hectares} \times 10,000}{G (\text{number of plots})}}$

K. SOURCE OF CV ESTIMATES

- Type 1: _____
- Type 2: _____
- Type 3: _____
- Type 4: _____
- Type 5: _____
- Type 6: _____
- Type 7: _____

L. INSTRUCTIONS FOR SECTIONS

- A** Enter district and tenure information.
 - B** Enter the name and address of the cruising and compiling agencies.
 - C** Enter the tentative start and completion dates of the field work.
 - D** Enter yes beside applicable headings.
 - E** Enter the number of plots and the grid spacing.
 - F** Enter the diameter limits measured and compiled to, and prism BAF.
 - G** Enter the colour(s) of paint and flagging used, and the type of blazing and plot tags.
 - H** Enter the appropriate height estimation method, and height measuring instrument used.
 - I** Enter remarks if required. Signature and date are mandatory.
 - J** **OPTIONAL.** Enter data ONLY if stratified systematic sampling is used. Type description -- include: species/ age class/ height class/ site quality.
 - K** **OPTIONAL.** Enter source of CV estimates.
 - ATTACH: CRUISE PLAN MAP.** Drawn to 1:5,000 or 1:10,000 scale, topography, (streams and roads), air photo numbers, strips and baselines, plot locations, boundaries, area in the merch and total by cut block, label the cut block (mature or immature). **MUST BE SUBMITTED WITH THIS FORM.**
- AERIAL PHOTOGRAPH:** Submit a copy with timber typing.



Licensee Representative:

Date: 10/23/2014

Declination 16.8°E

GIS Generated Systematic Cruise Grid
 Grid Spacing (m): 100
 Count Plots: 17
 Total Plots: 35
 Measure Plots: 18
 Plot Centric/T:
 Plot Centric/Y:
 Dia. Limit: 17.5cm (PH = 12.5)
 Height Instrument: Vertex
 Height Estimation Method: Vertex
 Grid Projection: Albers
 Total Plots: 35
 Plot Type: Prism
 Walkthrough Method: Y
 GPS Plot Location

Block Information

Gross Area (ha) 38.6
 Forest Region:
 Forest District:
 Operating Area: Third Canyon
 Harvest Method: Clearcut - Reserves
 Billing Method: Dist. Mngr.
 TSA:
 PSYU: 183
 Inv. Reg. No: 57
 Compt. No: 22

Legend

- Cruise Information**
- Full Measure Plot
 - Count Plot
 - Drop Plot
 - POC
 - % Slope Arrow
 - Tight Chain Traverse
 - Species and Percent
 - Projected Age
 - Projected Age Class
- VRI Data**
- Non-Productive
 - PSYU
 - PSYU Region & Compartment
 - ROW/Road Permit
 - Other
- Management Area**
- Block of Interest
 - Block Boundary
 - Reserves
 - Non-Productive
 - PSYU
 - PSYU Region & Compartment
 - ROW/Road Permit
 - Other
- Roads/Trails**
- Paved
 - Gravel Main
 - Operational
 - Spur
 - Proposed
 - Operational Trail
 - Other
- Structures**
- Existing Bridge
 - Proposed Bridge
 - Existing Pipe Arch
 - Existing Culvert
 - Removal Structure
 - Cattle Guard
 - Skidsteer Xing
 - Railway Crossing
 - Designated Crossing
 - Access Control
 - MI Marker
- Hydrology**
- Lake/River
 - Wellhead
 - Fish Bearing
 - Dam/Levee
 - Intermediate Contour
 - Index Contour
 - Spot Height
- Other Features**
- Fence
 - Rail Line
 - Sewer/Cut Line
 - Pipeline
 - Transmission/Power Line
 - Vehicle
 - Boundary Station
 - Cultural Heritage Feature
 - Culturally Modified Tree
 - Wildlife Feature
 - Cultural Heritage Area

Cruise Area Summary (ha)

Timber Type	Label	Clearcut	Select	Total
<input type="checkbox"/> Type 1		33.2		33.2
Cruise Area				
NP (Natural)		0		0
NCB		0		0
Logged		1.2		1.2
Right Of Way/Road Permit/Landings		0		0
NP (Oil and Gas)		4.2		4.2
Reserve				
Non Merchantable		5.4		5.4
Total Area				38.6

Map Date: 10/23/2014
 Created By: Geom, Amy
 Tentative Cruise Date: From: 03-Oct-2014 To: 03-Apr-2015
 Scale = 1:110,000

Aubrey, Michelle FLNR:EX

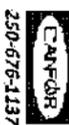
From: Groom, Andy <Andrew.Groom@canfor.com>
Sent: Friday, July 18, 2014 2:02 PM
To: Reiter, Clinton FLNR:EX
Subject: FL A18688 cruise plan T122
Attachments: 3I_T122.pdf; cp_letter.doc; cruiseplan_fs693.doc

Hi Clint

Here is the cruise plan for T122 within FL A18688

Thanks
Andy

Forestry Supervisor
Vavehby Division



250-676-1137

andy.groom@canfor.com



Canadian Forest Products Ltd.
Vavenby Division
Box 39
Vavenby, British Columbia
Canada V0E 3A0
Fax (250) 676-9455
Tel. (250) 676-1137
Andy.groom@caqfor.com

August 31, 2016

District Manager
Ministry of Forests
1265 Dalhousie Drive
Kamloops BC
Attn: Clint Reiter

RE: Cruise Plan Submission –FL A18688 T122

Dear Clint

Please find attached the cruise plan for the above block.

Contact the undersigned should you have any questions or concerns.

Yours truly,
Canadian Forest Products Ltd. - Vavenby Division

Andrew Groom RFT,
Forestry Supervisor



PROVINCIAL CRUISE PLAN

TENURE: FL A18688	CRUISE BASE OR SCALE BASE
C.P.: T122	SCALE
Base Map # 82M071	

A. ATTENTION:

District Manager: Rick Sommer Contact: Andy groom Cruise Area (ha): 26.4

Licensee: Canfor Trophies

Geographic Location: TSA: Kamloops PSYU: 183 FIZ: G Inv. Reg. No.: 57 Compt. No.: 2 2

Coast: Immat.: Mature: 1 Both: COMPILING AGENCY:

B. CRUISING AGENCY: KDC Forestry Name: Canfor Address: (250) 674-0249 (250) 676-9518

C. TENTATIVE CRUISE DATES:

From: May 2014 To: Sept. 2014

Proposed Years of Logging: 2015 Access: Vehicle

D. HARVESTING SYSTEM:

Harvesting System: conventional

Systematic Grid: Yes

E. PLOT NO:

Measure Plots: 13 Count Plots: 12 Estimated C.V.: 45 S.E. Waived (Y/N): No

Grid Spacing (in m): 100 by 100 200 x 200 m if cruise < 250 ha

Plot Type: Prism/Relescope: Prism Fixed Area: No Plot Size (ha): N/A

F. MINIMUM DIAMETER LIMITS:

	Mature	Immature	Species (cm to)	Exemption (cm)
Field Tally			Pi: 12.5 Other: 17.5	
Compilation - Appraisal (cm)			Pi: 12.5 Other: 17.5	
Compilation - Cutting Permit (cm)			Pi: 12.5 Other: 17.5	

G. MARKING

	Ribbon Colour	Paint Colour	Axe Blaze	Other (tags)
Boundaries	Orange	N/A	No	No
Baseline	Blue	N/A	No	No
Strips	Blue	N/A	No	No
Plot Centre	Blue/Yellow	N/A	No	No
Tie Points	Blue	N/A	No	No
Non Forest Types	SMZ	N/A	No	No
Riparian Areas	SMZ	N/A	No	No
Wildlife Tree Patches	SMZ	N/A	No	No
Other				

H. TREE HEIGHTS: (TOTAL HEIGHT METHOD IS MANDATORY)

Height Estimation Method (ocular, vertex, etc.): Ocular Height Measuring Instrument (clinometer, hypsometer, etc.): Vertex

I. OTHER:

Comments:

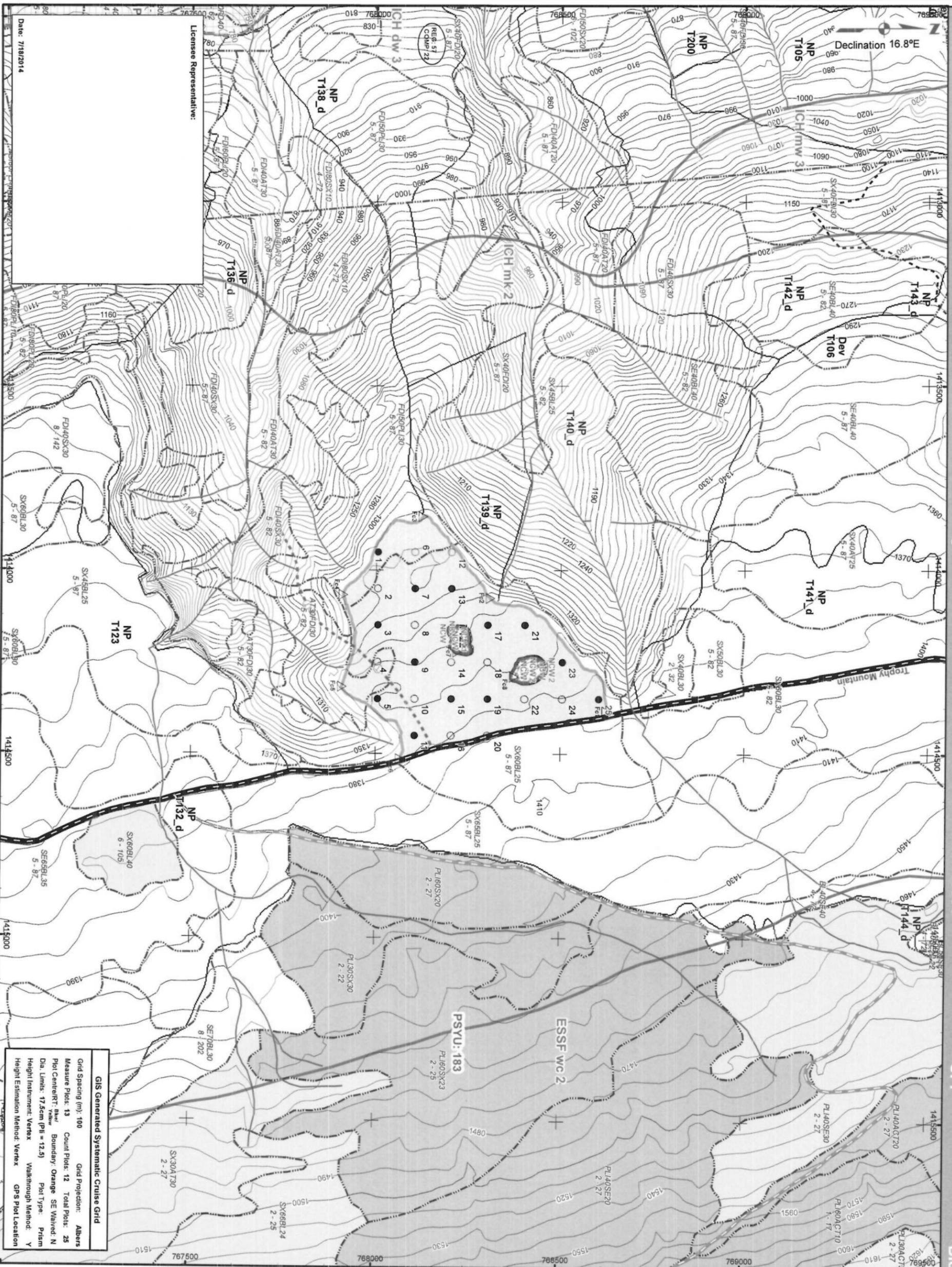
Note: The original traverse notes must be provided to Forest Service staff upon request.

Signed: Andrew groom 1671 July 18th, 2014

Authorized Licensee Representative RPE/RFT/ATC or ATE Number Date:

Are block(s) in an approved Forest Stewardship or Forest Development Plan? Yes

Declination 16.8°E



Licensee Representative:

Date: 7/18/2014

GIS Generated Systematic Cruise Grid

Grid Spacing (m):	100	Grid Projection:	Albers
Measure Plot:	13	Count Plot:	12
Plot Centre/RT:	Blue	Boundary:	Orange
Plot Type:	Walk	SE Walked:	N
Plot Type:	Walk	Plot Type:	Prism
Height Instrument:	Vertex	Walkthrough Method:	Y
Height Estimation Method:	Vertex	GPS Plot Location	

Block Information

Gross Area (ha):	27.5	Cruise Area (ha):	26.4
Forest Region:			
Operating Area:	Third Canyon	Timbermark:	
Harvest Method:	Clearcut - Reserves	Tenure:	Forest Licence
Billing Method:		Dist. Mngr.:	
TSR:		Mapsheet:	082W071
FIG: G	PSYU:183	Inv. Reg. No.:	57
		Compl. No.:	22

Legend

Cruise Information

- Full Measure Plot
- Count Plot
- Drop Plot
- POC
- % Slope Arrow
- Tight Chain Traverse
- Species and Percent
- Projected Age
- Projected Age Class

VRI Data

- SX70BL30
- SX70BL30
- Projected Age
- Projected Age Class

Management Area

- Block Harvest Area
- Block Boundary
- Parks, Protected Areas
- Reserves
- End/Res. Reserve
- Non-Productive
- PSYU
- Region 5
- Compartment
- Free
- Restocked
- Operational
- Opening

Roads/Trails

- Spur
- Operational
- Proposed
- Operational Trail
- Other

Structures

- Existing Bridge
- Proposed Bridge
- Existing Pipe Arch
- Existing Culvert
- Removed Structure
- Cattle Guard
- Stair/Backpack Xing
- Railway Crossing
- Designated Crossing
- Access Control
- Proposed Culvert
- Kiln Marker
- Contours - 10m
- Index Contour
- Intermediate Contour
- Spot Height

Hydrology

- Wetland
- Lake/River
- Fish Bearing
- Define
- Intermediate Contour
- Spot Height

Other Features

- Fence
- Rail Line
- Salem/Cut Line
- Pipeline
- Transmission/Power Line
- Cultural Heritage Area
- Boundary Station
- Cultural Heritage Feature
- Culturally Modified Tree
- Wildlife Feature
- Cultural Heritage Area

Cruise Area Summary (ha)

Timber Type	Label	Clearcut	Select	Total
<input type="checkbox"/> Type 1		26.4		26.4
Cruise Area				
NP (Natural)		0.6		0.6
NCR		0		0
Logged		0		0
Right Of Way/Road Permitt/Landings		0		0
NP (Oil and Gas)		0		0
Reserve		0.5		0.5
Non Merchantable				
		1.1		1.1
Total Area				
		27.5		27.5

Scale = 1:110,000

Map Date: 7/18/2014

Created By: Pedrus, Reed

Timbermark: Cruise Data

From: 18-Jul-2014 To: 18-Jul-2015

Map Date: 7/18/2014

Scale = 1:110,000

Map Date: 7/18/2014

Created By: Pedrus, Reed

Timbermark: Cruise Data

From: 18-Jul-2014 To: 18-Jul-2015

Aubrey, Michelle FLNR:EX

From: Sexsmith, Shane <Shane.Sexsmith@canfor.com>
Sent: Monday, April 13, 2015 10:28 AM
To: FLNR DTR Revenue FLNR:EX
Subject: Canfor Vavenby block t123 cruise plan
Attachments: 3_t123.pdf; t123_cruiseplan_fs693.doc



PROVINCIAL CRUISE PLAN

TENURE: FLA18688	CRUISE BASE
C.P.: T123	OR SCALE BASE
Base Map # 82M071	SCALE

A. ATTENTION:

District Manager: Rick Sommer Contact: Shane Sexsmith Cruise Area (ha): 37.6

Licensee: Canfor Clearwater Third Canyon

Geographic Location: Clearwater Third Canyon

TSA: Kamloops PSYU 183 FIZ: G Inv. Reg No: 67 Compl. No: 2.2

Coast: Immature: Mature: Both:

B. CRUISING AGENCY:

Agency Name: KDC Forestry Name: Canfor
 Cruiser Names (if known): Address: (250) 676-9518
 Address: (250) 674-0249

COMPIILING AGENCY:

C. TENTATIVE CRUISE DATES:

From: April 2015 To: Sept 2015
 Proposed Years of Logging: 2015 Access: Vehicle

D. HARVESTING SYSTEM:

Harvesting System: conventional
 Systematic Grid: Yes

E. PLOT NO.:

Measure Plots: 18 Count Plots: 19 Estimated C.V.: 45 S.E. Waived (Y/N): Y
 Grid Spacing (m): 100 by: 100 200 x 200 m if cruise < 250 ha
 250 x 250 m if cruise > 250 ha

F. MINIMUM DIAMETER LIMITS:

Field Tally	COAST	INTERIOR
Compilation - Appraisal (cm)	Mature	Immature
Compilation - Cutting Permit (cm)	PI: 12.5 Other: 17.5	PI: 12.5 Other: 17.5
	PI: 12.5 Other: 17.5	

G. MARKING

Boundaries	Ribbon Colour	Paint Colour	Axe Blaze	Other (tags)
Baseline	Orange	N/A	No	No
Strips	Blue	N/A	No	No
Plot Centre	Blue/Yellow	N/A	No	No
Tie Points	Blue	N/A	No	No
Non Forest Types	SMZ	N/A	No	No
Riparian Areas	SMZ	N/A	No	No
Wildlife Tree Patches	SMZ	N/A	No	No
Other				

H. TREE HEIGHTS: (TOTAL HEIGHT METHOD IS MANDATORY)

Height Estimation Method (ocular, vertex, etc.): Ocular Height Measuring Instrument (clinometer, hypsometer, etc.): Vertex

I. OTHER:

Comments:

Note: The original traverse notes must be provided to Forest Service staff upon request.

Signed: Shane Sexsmith RFT 1517 April 10, 2015

Authorized Licensee Representative RPR/RPT/ATC or ATE Number Date:

Axe block(s) in an approved Forest Stewardship or Forest Development Plan? Yes

Aubrey, Michelle FLNR:EX

From: Groom, Andy <Andrew.Groom@canfor.com>
Sent: Friday, September 5, 2014 8:11 AM
To: Reiter, Clinton FLNR:EX
Subject: CANFOR FLA18688 t125 cruise plan
Attachments: 3l_t125.pdf; cp_letter.doc; cruiseplan_fs693.doc

Hi Clint

Here is the cruise plan for t125

Thanks
Andy

Forestry Supervisor
Vavenby Division



250-676-1137

andy.groom@canfor.com



Canadian Forest Products Ltd.
Vaverby Division
Box 39
Vaverby, British Columbia
Canada V0E 3A0
Fax (250) 676-9455
Tel. (250) 675-1137
Andy.groom@caqfor.com

August 31, 2016

District Manager
Ministry of Forests
1265 Dalhousie Drive
Kamloops BC
Attn: Clint Reiter

RE: Cruise Plan Submission –FL A18688 T125

Dear Clint

Please find attached the cruise plan for the above block.

Contact the undersigned should you have any questions or concerns.

Yours truly,
Canadian Forest Products Ltd. - Vaverby Division

Andrew Groom RFT.
Forestry Supervisor

SECTIONS J, K, L (TO BE FILLED OUT WHEN REQUIRED)

J. STRATIFIED SYSTEMATIC SAMPLING: (Calculate sampling requirements for each timber type)

Type No.	Type Description	BEC Subzone Aerial	Plot/Prism size	Type Area (ha)	Average m ³ /ha	Estimated Vol/Type m ³	Type Vol % of Total Vol	Estimated Type CV	Weighted Type CV	Total Proslcp	Grid Spacing
		A	B	C	D	E	F	G	H		
1	FAPISx	ICHmw3		44.1						Refer to	
2										Sections	
3										2.4, 2.5	
4										Provincial	
5										Cruising	
6										Manual	
7											
			Tot. Ha's	44.1	Tot. Vol.		Tot. Weighted CV				

EXPLANATION OF FORMULA

$C = A \times B$ $D = \frac{C}{X} \times 100$ $E = \text{cruising manual, section 2.62}$
 $\text{Sum } C1..7$

Variable Plot Fixed Plot $G = \text{cruising manual section 2.4, 2.5}$ $H = \sqrt{\frac{\text{Total hectares} \times 10,000}{G (\text{number of plots})}}$
 $F = D \times E$

K. SOURCE OF CV ESTIMATES

Type 1: _____
 Type 2: _____
 Type 3: _____
 Type 4: _____
 Type 5: _____
 Type 6: _____
 Type 7: _____

L. INSTRUCTIONS FOR SECTIONS

A Enter district and tenure information.
B Enter the name and address of the cruising and compiling agencies.
C Enter the tentative start and completion dates of the field work.
D Enter yes beside applicable headings.
E Enter the number of plots and the grid spacing.
F Enter the diameter limits measured and compiled to, and prism BAF.
G Enter the colour(s) of paint and flagging used, and the type of blazing and plot tags.
H Enter the appropriate height estimation method, and height measuring instrument used.
I Enter remarks if required. Signature and date are mandatory.
J OPTIONAL. Enter data ONLY if stratified systematic sampling is used. Type description – include: species/ age class/ height class/ site quality.
K OPTIONAL. Enter source of CV estimates.
ATTACH: CRUISE PLAN MAP. Drawn to 1:5,000 or 1:10,000 scale, topography, (streams and roads), air photo numbers, strips and baselines, plot locations, boundaries, area in the merch and total by cut block, label the cut block (mature or immature). **MUST BE SUBMITTED WITH THIS FORM.**
AERIAL PHOTOGRAPH: Submit a copy with timber typing.

Aubrey, Michelle FLNR:EX

From: Groom, Andy <Andrew.Groom@canfor.com>
Sent: Monday, September 22, 2014 2:33 PM
To: Reiter, Clinton FLNR:EX
Subject: CANFOR t160 cruise plan
Attachments: 3l_t160.pdf; cp_letter.doc; cruiseplan_fs693.doc

Hi Clint

Here is the cruise plan for t160 within FL A18688

Reagrds
Andy



Canadian Forest Products Ltd.
Vavenby Division
Box 39
Vavenby, British Columbia
Canada V0E 3A0
Fax (250) 676-9455
Tel. (250) 676-1137
Andy.groom@canfor.com

August 31, 2016

District Manager
Ministry of Forests
1265 Dalhousie Drive
Kamloops BC
Attn: Clint Reiter

RE: Cruise Plan Submission --FLA18688 t160

Dear Clint

Please find attached the cruise plan for the above block.

Contact the undersigned should you have any questions or concerns.

Yours truly,
Canadian Forest Products Ltd. - Vavenby Division

Andrew Groom RFT.
Forestry Supervisor



PROVINCIAL CRUISE PLAN

TENURE: FLA 18688
 C.P.: T160
 CRUISE BASE OR SCALE BASE
 SCALE

Base Map # 82M081

A. ATTENTION:
 District Manager: **Rick Sommer** Contact: **Andy groom** Cruise Area (ha): **9.1**
 Licensee: **Canfor** Trophies

Geographic Location: **Trophies**

TSA: **Kamloops** PSYU: **183** FIZ: **G** Inv. Reg. No.: **57** Compl. No.: **2 5**
 Coast: **Immature** Maturity: **1** Bath:

B. CRUISING AGENCY: **COMPILING AGENCY:**
 Agency Name: **KDC Forestry** Name: **Canfor**
 Cruiser Names (if known): Address: Address: **(250) 676-5518**
 Address: **(250) 6740249**

C. TENTATIVE CRUISE DATES:
 From: **Sept2014** To: **Dec20147**
 Proposed Years of Logging: **2009/2010** Access: **Vehicle**

D. HARVESTING SYSTEM:
 Harvesting System: **conventional**
 Systematic Grid: **Yes**
 1. Segregate silv. System (patch clearcut, seedtree, pole sug, opening size)

E. PLOT NO:
 Measure Plots: **8** Count Plots: Estimated C.V.: **45** S.E. Waived (Y/N): **yes**
 Grid Spacing (in m): **100** by: 100 200 x 200 m if cruise < 250 ha
 250 x 250 m if cruise ≥ 250 ha

F. MINIMUM DIAMETER LIMITS:
 Field Tally Maturity Immature Species (cm to) Exemption (cm)
 Compilation - Appraisal (cm) **Pl: 12.5 Other: 17.5**
 Compilation - Cutting Permit (cm) **Pl: 12.5 Other: 17.5**

G. MARKING

Ribbon Colour	Paint Colour	Axe Blaze	Other (tags)
Boundaries	Orange	No	No
Baseline	Blue	No	No
Strips	Blue	No	No
Pilot Centre	Blue/Yellow	No	No
Tie Points	Blue	No	No
Non Forest Types	SMZ	No	No
Riparian Areas	SMZ	No	No
Wildlife Tree Patches	SMZ	No	No
Other	N/A	No	No

H. TREE HEIGHTS: (TOTAL HEIGHT METHOD IS MANDATORY)
 Height Estimation Method (ocular, vertex, etc.) Ocular Height Measuring Instrument (clinometer, hypsometer, etc.) Vertex

I. OTHER:

Comments:
 Note: The original traverse notes must be provided to Forest Service staff upon request:
 Signed: **Andrew Groom** 1871 Date: **Sept 22/2014**
 Authorized Licensee Representative RPF/RFT/ATC or ATE Number

Are block(s) in an approved Forest Stewardship or Forest Development Plan? **Yes**

SECTIONS J, K, L (TO BE FILLED OUT WHEN REQUIRED)

J. STRATIFIED SYSTEMATIC SAMPLING: (Calculate sampling requirements for each timber type)

Type No	Type Description	BEC Subzone Variant	Plot/Prism Size	Type Area (ha)	Average m ³ /ha	Estimated Volume m ³	Type Vol. % of Total Vol.	Estimated Type CV	Weighted Type CV	Total Plot/CP	Grid Spacing
A	B	C	D	E	F	G	H				
1	PLBASX	ESSFWC 2		9.1						Refer to Sections 2.4, 2.5	
2											
3										Provincial	
4										Cruising	
5										Manual	
6											
7											
			Tot. Habs	9.1	Tot. Vol.		Tot. Weighted CV				

EXPLANATION OF FORMULA

$C = A \times B$

$D = \frac{C}{\text{Sum } C1...7} \times 100$

$E = \text{cruising manual, section 2.62}$

Variable Plot $F = D \times E$ Fixed Plot $G = \text{cruising manual section 2.4, 2.5}$ $H = \frac{\text{Total hectares} \times 10,000}{G \text{ (number of plots)}}$

K. SOURCE OF CV ESTIMATES

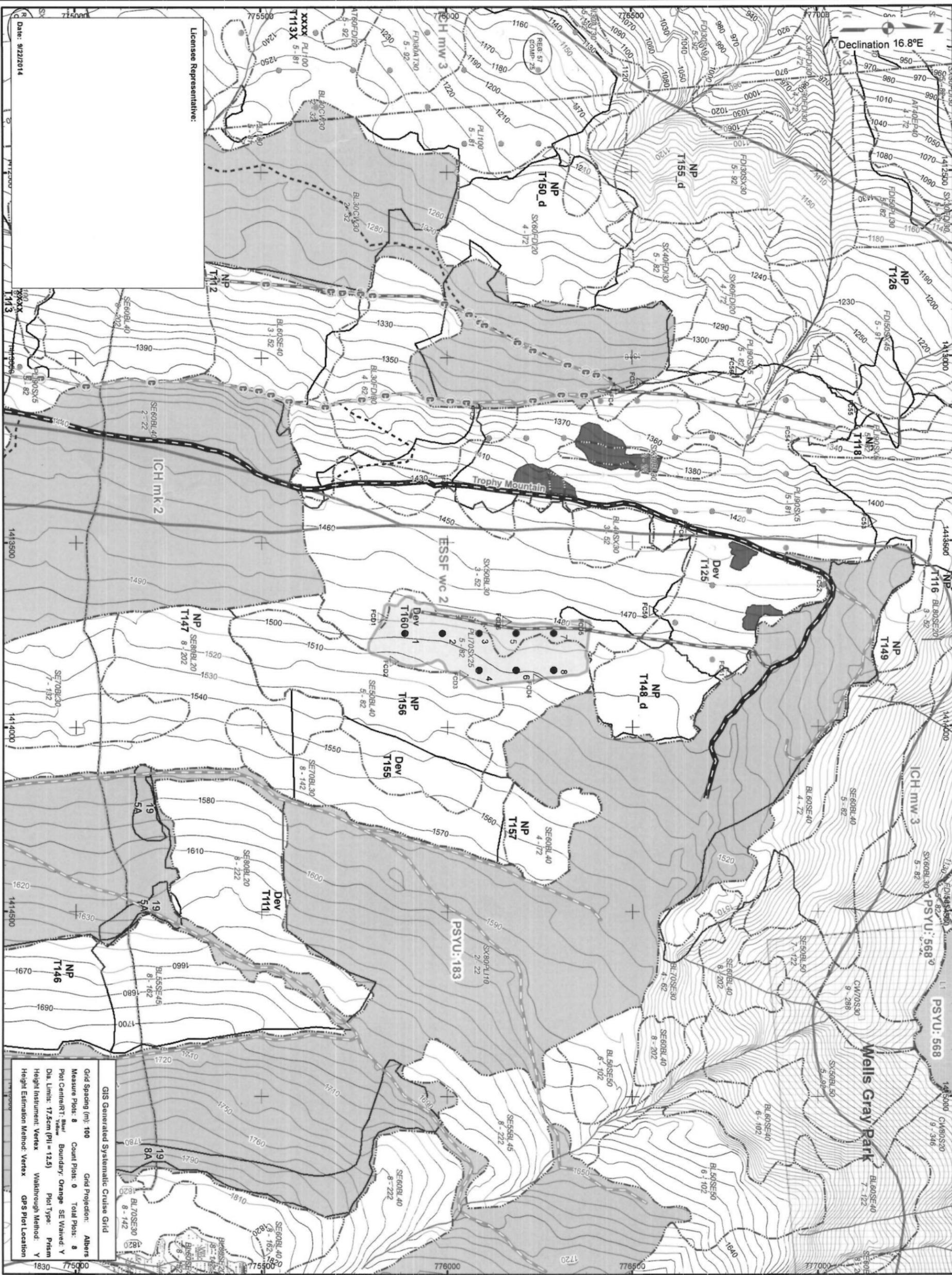
- Type 1: _____
- Type 2: _____
- Type 3: _____
- Type 4: _____
- Type 5: _____
- Type 6: _____
- Type 7: _____

L. INSTRUCTIONS FOR SECTIONS

- A Enter district and tenure information.
 - B Enter the name and address of the cruising and compiling agencies.
 - C Enter the tentative start and completion dates of the field work.
 - D Enter yes beside applicable headings.
 - E Enter the number of plots and the grid spacing.
 - F Enter the diameter limits measured and compiled to, and prism BAF.
 - G Enter the colour(s) of paint and flagging used, and the type of blazing and plot tags.
 - H Enter the appropriate height estimation method, and height measuring instrument used.
 - I Enter remarks if required. Signature and date are mandatory.
 - J OPTIONAL. Enter data ONLY if stratified systematic sampling is used. Type description – include: species/ age class/ height class/ site quality.
 - K OPTIONAL. Enter source of CV estimates.
 - ATTACH: CRUISE PLAN MAP. Drawn to 1:5,000 or 1:10,000 scale, topography, (streams and roads), air photo numbers, strips and baselines, plot locations, boundaries, area in the merch and total by cut block, label the cut block (mature or immature). **MUST BE SUBMITTED WITH THIS FORM.**
- AERIAL PHOTOGRAPH: Submit a copy with timber typing.

FS 693 HVA 2006/06 Please be advised that this information may be released under the Freedom of Information and Protection of Privacy Act

Declination 16.8°E



Licensee Representative:

Date: 9/22/2014

GIS Generated Systematic Cruise Grid
 Grid Spacing (m): 100
 Measure Plots: 8
 Plot Center/RT: Blm
 Dia. Limits: 17.5cm (Phi = 12.5)
 Height Instrument Method: Vertex
 Height Estimation Method: Vertex
 Grid Projection: Albers
 Total Plots: 8
 Boundary: Orange
 SE Waved: Y
 Plot Type: Prism
 Walkthrough Method: Y
 GPS Plot Location

Block Information

Gross Area (ha): 9.3
 Forest Region:
 Forest District:
 Operating Area: Third Canyon
 Harvest Method: Clearcut - Reserves
 Billing Method:
 TSA:
 FIG: G PSYU-183 Inv. Reg No: 57
 Cruise Area (ha): 9.3
 Timbermark: ANRA_017
 Tenure: Forest Licence
 Dist. Mngt:
 Mapsheet: 082M081
 Compt. No: 25

Legend

- Cruise Information**
- Full Measure Plot
 - Count Plot
 - Drop Plot
 - Tight Chain Traverse
 - Projected Age Class
- Management Area**
- Block Of Interest
 - Back Boundary
 - Reserves
 - Non-Productive
 - NCBR
 - Landscape
 - Level Retention
 - Roads/Trails
 - Paved
 - Gravel Main
 - Operational
 - Spur
 - Structures
 - Existing Bridge
 - Proposed Bridge
 - Existing Pipe Arch
 - Existing Culvert
 - Landing
 - Hydrology
 - Wetland
 - Lake/River
 - Other Features
 - Rail Line
 - Fence
 - Setback/Cut Line
 - Pipeline
 - Transmission/Power Line
 - Website
 - Recreation Trail
 - Cultural Trail
 - Temp Proposed
 - Operational Trail
 - Proposed
 - Pipeline Crossing
 - Cattle Guard
 - Stake/Signpost Xing
 - Railway Crossing
 - Designated Crossing
 - Access Control
 - KM Marker
 - Contours - 10m
 - Fish Bearing
 - Dike
 - Intermedia Contour
 - Interline
 - Spot Height
 - Boundary Station
 - Cultural Heritage Feature
 - Culturally Modified Tree
 - Wildlife Feature
 - Cultural Heritage Area

Cruise Area Summary (ha)

Timber Type	Label	Clearcut	Select	Total
<input type="checkbox"/> Type 1		9.1		9.1

Cruise Area	Total Area
NP (Natural)	9.1
NCBR	0
Logged	0
Right Of Way/Road Permits/Landings	0
NP (OI and Gas)	0
Reserve	0
Non-Merchandise	0
Total Area	9.1

Scale = 1:10,000
 Map Date: 9/22/2014
 Created By: Geom, Andy
 Tenders Cruise Dates: From 28-Sep-2014 To 22-Jan-2015
 CANFOR

From: [Pilling, Glen FPB:EX](#)
To: Dave.Dobi@Canfor.com; [Schweitzer, Rob W FLNR:EX](#); [Stafford, Jason FLNR:EX](#); thinkwellsgray@gmx.ca
Cc: [Zielke, Ken FPB:EX](#); [Sommer, Rick B FLNR:EX](#); [Lewis, Tom FLNR:EX](#)
Subject: Forest Practices Board Complaint Investigation - Southern Clearwater Valley - Clarification of Nature of the Complaint
Date: Monday, July 7, 2014 9:30:59 AM
Attachments: [140626.Complaint Form.docx](#)

Hello All

On Friday I sent out a notification letter for the complaint we received from Wells Gray Action Committee. I copied the letter to Erik Milton and he sent me the e-mail below to help clarify his concerns. I asked him if I could forward the complaint form as well as his e-mail to help clarify the issues. It is attached.

Rick Sommer asked Rob Schweitzer to be the main contact for this file for the District. Tom Lewis asked Jason Stafford to be the main contact for this file for BCTS.

I will be calling you in the near future to discuss the complaint and try to schedule interviews.

Please feel free to call me at any time if you have questions or concerns.

Glen Pilling

Manager, Audits and Investigations

Forest Practices Board

250 836 3279

From: Erik [<mailto:thinkwellsgray@gmx.ca>]
Sent: Monday, July 07, 2014 8:52 AM
To: Pilling, Glen FPB:EX
Subject: Re: Forest Practices Board Complaint Investigation - Upper Clearwater Valley
Morning Glenn,
By all means, forward the email to the District, BCTS, and Canfor.
Thanks and regards,
Erik Milton
Wells Gray Action Committee
ThinkWellsGray@gmx.ca
250.674.8255

On 7-Jul-14, at 8:48 AM, Pilling, Glen FPB:EX wrote:

Hello Erik

Could I forward this and if possible the complaint form to the District, BCTS and Canfor?

The notification letter that I sent out basically sets the scope of the investigation. Sending this e-mail out will clarify the scope.

-----Original Message-----

From: Erik [<mailto:thinkwellsgray@gmx.ca>]
Sent: Saturday, July 05, 2014 7:34 AM
To: Pilling, Glen FPB:EX
Subject: Re: Forest Practices Board Complaint Investigation - Upper Clearwater Valley
Good Morning Glenn,
Thanks for this information.

I just wanted to clarify a couple things regarding the complaint - again, these comments are general in nature. The complaint is more complex than either the initial complaint form allowed for or the

letter you have written summarizing the complaint makes clear.

Please note the following clarifications;

- The area of concern is the southern Clearwater Valley, not just the area known as the "Upper Clearwater Valley." This area inherently holds a broad range of non-fibre values that have not been properly addressed. We are looking for a public input process into decisions that affect the southern Clearwater Valley, not just the

Upper Clearwater area as your letter suggested. I can geographically define this for you if needed.

- The Guiding Principles apply only to the area known as the "Upper Clearwater Valley," which is the crown land on the east side of the valley north of Spahats Creek. Logging has not begun yet on that side of the valley but both BCTS and Canfor have logging interests there. The complaint regarding the Guiding Principles is therefore only relevant to this area.

- Logging is not just about what happens on the ground - more importantly it is the process that leads up to those decisions. In consideration for the broad range of values set to be impacted by decisions affecting the southern Clearwater Valley the forestry system (government and industry) has failed to live up to their own stated commitments to consideration for social and economic values, and more importantly are failing to uphold the public trust they are obligated to consider. Because of the nature of the impacts of logging in this situation public input is critical for making the right decisions - and should have been a default part of the process. There are very obvious stakeholders in this case that have been given no opportunity for input. This input is needed because it will affect an entire community (Clearwater) that is building a large part of it's future on it's relationship and connection to Wells Gray Park.

- There are other concerns as well - alluded to in the complaint.

As your letter has suggested, we are more than willing to work towards resolving this complaint at this point. To this end, all that needs to happen is that Kamloops Forest District - as the body that is in a leadership position and able to make land-use decisions in this case - agree to hold a meaningful and open public input

process before they commence logging the southern Clearwater Valley.

This process would of course include Canfor and BCTS. However,

for the input process to be genuine logging cannot be taking place in the valley while we discuss its future. That much is clear.

If you have any questions, feel free to call me.

Regards,

Erik Milton

Wells Gray Action Committee

ThinkWellsGray@gmx.ca

250.674.8255

On 4-Jul-14, at 2:30 PM, Pilling, Glen FPB:EX wrote:

Hello Erik Milton

We have received the complaint that you sent to the Board from the Wells Gray Action Committee. I am sending the acknowledgement and notification letters attached to this e-mail. I will forward a paper copy in the mail.

Please feel free to call if you have any questions or concerns.

Glen Pilling

Manager, Audits and Investigations
Forest Practices Board
250 836 3279
Glen Pilling
Manager, Audits and Investigations
Forest Practices Board
250 836 3279
brochure.pdf>



NOTICE OF COMPLAINT

Date:

Board Use Only

Complaint Information

Do you wish to remain anonymous? Do you have other documents to add in support of this complaint?

What is your complaint? (nature of complaint)

- 1) Failure of MFLNRO to provide leadership in a situation that clearly requires it.
- 2) Failure by MFLNRO, Canfor, and BCTS to engage public and especially stakeholders before logging an area with a broad range of social, economic, and environmental concerns.
- 3) Non-compliance by MFLNRO and Canfor with a land use agreement – The Upper Clearwater Guiding Principles.
- 4) A multitude of on-the-ground logging concerns including (but not limited to) impacts to hydrology, Mountain Caribou habitat, viewscape issues, Wells Gray Park adjacency issues, economic impact issues, past logging concerns, and impacts to the Clearwater Valley and Clearwater River Rd.

Where and when did the problem occur? (grounds for complaint)
When did you learn of the problem?

Concerns center around the Clearwater Valley – entrance corridor to Wells Gray Park – where an extraordinary set of circumstances and values affecting a broad range of user groups are present in a relatively small area.

In the late 1990's the Upper Clearwater Guiding Principles land use agreement were negotiated as part of the greater LRMP process. Residents believed that the compromise reached by that land use agreement precluded industrial scale logging in the Upper Clearwater Valley.

More recently concerns have necessarily broadened beyond the scope of the Guiding Principles agreement both geographically and topically. Stakeholder concerns over a wide range of issues in the valley are not being addressed.

We feel that MFLNRO has a leadership role to fulfill in situations such as this. Their failure to do so has aggravated the situation and is set to cause division and negativity in the community that might have been avoided with a little foresight and leadership. The problems are ongoing.

What steps have you taken to try to solve the problem?

Residents have been writing letters and communicating with Canfor and MFLNRO since early 2012. Under the Guiding Principles land-use agreement residents acted in good faith that they had a process, supported by the agreement, for voicing their concerns and affecting the decision making process. We feel that our voices have largely gone unheard through that process. Issues are constantly avoided and resident concerns are passed back and forth between government and industry while nothing changes.

In May 2014 the Wells Gray Action Committee was formed to pursue these concerns more effectively and call for public input into this process. We have engaged the press and politicians in an attempt to be heard. BCTS were also recently contacted as they have begun logging on the west side of the Clearwater Valley.

It is ongoing...

What solution would you like? (relief requested)

In consideration of the broad range of issues and stakeholders impacted, we believe that a public input process is a necessary and critical part of good decision making and due diligence in this circumstance. That is all we are asking for – a public input process where everyone will have the opportunity to have a voice in decisions that will impact social, economic and environmental values in the region.

While the public input process is held it is imperative that logging not be taking place in the areas of concern as this would further undermine the process and any possibility that it might be genuine.

List the companies, ministries and people who are involved in the complaint

(attach list if necessary):

Name: Rob Schweitzer	Name: Dave Dobi	Name: Frank Kohlberger
Rob.Schweitzer@gov.bc.ca	Dave.Dobi@canfor.com	Frank.Kohlberger@gov.bc.ca
Phone: 250.371.6502	Phone: 250.676.1136	Phone: 250.371.6557
Fax:	Fax:	Fax: 250.371.6565
Address: 1265 Dalhousie Drive	Address: Box 39	Address: 1265 Dalhousie Drive
City/Town: Kamloops	City/Town: Vavenby	City/Town: Kamloops
Postal Code: V2C 5Z5	Postal Code: V0E 3A0	Postal Code: V2C 5Z5
Involvement: MFLNRO	Involvement: Canfor	Involvement: BC Timber Sales

Any additional comments you would like to make in support of your complaint

(attach other information if desired):

Supporting documents, etc. will be available/presented during the investigation.

Contact Information

Name: Erik Milton	Organization represented, if any: Wells Gray Action Committee	
Address: 6332 Clearwater Valley Rd.	City/Town: Clearwater	Postal Code: V0E 1N1
Phone: 250.674.0270	Cell: 250.674.8255	Email: ThinkWellsGray@gmx.ca

Please send completed form and supporting document(s) to:

Mail: Forest Practices Board
PO Box 9905, Stn Prov Govt
Victoria, BC V8W 9R1

Fax: 250-213-4725

**CATHERINE JEAN HICKSON,
Geoscientist: B.Sc., Ph.D., P.Geo.**

1503 - 4194 Maywood Street • Burnaby, BC • V5H 4E9 • 604.435.9644 • chickson@telus.net

LOGGING NORTH OF SPAHATS CREEK

May 28, 2014

Rick Sommer RPF
District Manager
Thompson Rivers Resource District
Ministry of Forests, Lands and Natural Resource Operations
Phone: 250-371-6501 Fax: 250- 371-6565
Email: rick.b.sommer@gov.bc.ca

Dear Rick:

Thank you for taking my call Friday and providing David Dobi's contact information. As I mentioned, it has come to my attention that the southern portion of the Wells Gray Clearwater Volcanic Field overlaps with plans for extensive clear cut logging. I understand from our conversation that there is a process in place that is open to input from the public and technically qualified individuals concerning potential impacts of this logging. Below is my input that I would like formally presented to the committee and placed on their agenda for consideration.

First a bit about my background, I have long experience with the volcanic history of the Clearwater Valley, having completed my doctoral thesis here in 1987. Since then I worked 24 years with the Geological Survey of Canada, where my main focus was volcanism in Canada. During my tenure with the GSC I had the opportunity to study most of the volcanic areas in British Columbia. I also had the opportunity to carry out detailed studies of volcanic areas in Iceland, USA, Argentina, Bolivia, Chile, Colombia, Guatemala, Ecuador, and Peru. Several of these studies were related to risk and hazard analysis in volcanic areas. Since leaving the GSC in 2008, I have continued working globally on volcanic sequences in the context of geothermal energy. Since 2013 I have been working as a consultant specializing in geoscience studies related to geothermal development, volcanism and risk/hazard analyses.

As part of my effort to support the upcoming proposal for Geopark status for the Wells Gray Clearwater Volcanic Field, I have recently prepared several documents for use in describing the geological significance of this area.

One of these documents is a field guide for an international geological conference to be held in Vancouver. The sponsoring organization is the Geological Society of America. The guide book is for a field visit to the WGCVF planned for October 22-24.

The other two documents are being prepared for the general public. One is a booklet called “Wells Gray Rocks” and the other is a map highlighting the geology and important features of the area from Clearwater north to the upper portions of the park.

Distinctive geological features:

The areas slated for logging are in highly sensitive areas that contain geological features that are rare in British Columbia, not protected in other provincial parks, and are not found in other locations within Wells Gray Provincial Park. These features include erosional formations (hoodoos and cockscomb structures (Fig. 1 and 2)), associated chasms, and waterfalls. These features have formed within a thick succession of pillow lavas that are exposed along the west facing slopes of an area informally called Sheep Track Bench (Geological Map) extending from Spahats Creek to Moul Creek. These young and unique geological formations also need specific geotechnical considerations before road and other infrastructure placement can be made (Fig. 3). Mapping was last done in the mid-1980s and should be redone to catalogue these features. Reports of features such as lava tubes (another relatively rare phenomenon) have been made but not substantiated.

Buck Hill is a small cinder cones that holds the distinction of erupting at the end of the Fraser Glaciation (11,000-10,000 years ago) when significant valley filling ice still occupied the Clearwater River Valley. This interaction has created a series of unique deposits in the interaction of lava and ice. Although the Park contains many other volcanic vents that show evidence of lava/ice interaction, this is the only one in the area (and known in British Columbia) that has unique “bomb tills” and “pillow flow tills”.

Sheep Track Bench is a broad area bounded by steep slopes that form the east wall of the Clearwater Valley (Fig. 5). These slopes are susceptible to debris flows and slope failures with a potential to cause damage to roads and private property located at the base of the slope. They are already subject to failure and flooding (Fig. 6). Restrictions on harvesting on broad “gentle over steep” areas would likely be required as weak and variably porous geological units dip from the plateau towards the steep valley sides below, accelerating run-off and the potential for slope failures.

The roads up Spahats Creek and across Sheep Track Bench are used by thousands of tourists accessing the Trophy Mountain Meadows and the higher alpine areas. Part of the Geopark proposal will advocate for a trail system that accesses the escarpment and slopes of Sheep Track Bench, thereby introducing ready-made tourist traffic to some of the Clearwater Valley’s key volcanic features. There are three important associated points here:

- first, this area brings the park experience within ready reach of Clearwater, which is now establishing itself as gateway to the park;
- second, having an extensive trail system linked to world-class geologic features will inevitably increase visitation at the same time as it extends the duration of the average visit;
- third, these slopes are available for hiking from early May through late October, that is, about two months longer than most of Wells Gray Park itself.

I submit that all of these features are of significant importance to future tourism opportunities in Clearwater and Upper Clearwater.

In summary, logging in this geologically and visually sensitive area is likely to have a significant negative impact on the upcoming UNESCO geopark initiative and, as a result, on future economic development in

the local community. I urge the committee to take these tangible values into consideration when making its decision.

Regards,



Catherine Hickson PGeo PhD

Attachments: Map and five photographs

Figure 1: Cockscomb structure in the upper parts of 1st Canyon Creek. This structure is indicative of other features in the area. These features are formed due the differential erosion properties of the pillow breccia that makes up the deposits.

Figure 2: A spire structure in the upper parts of 1st Canyon Creek. This is indicative of other features in the area. These features are formed due the differential erosion properties of the pillow breccia that makes up the deposits.

Geological Map: DEM and geological map of the area from Spahats to Moul Creek. Geology is based on traverses done in 1983 and 1984; 4 Clearwater Unit; 3 Sheep Track Bench subunit (ice contact); 1 Waning Fraser Glaciation volcanism; F=Flows; H=Hyaloclastite; B=Basement (Kootenay Terrain/Slide Mountain/Raft Batholith); d=dykes; c=fluvial/colluvial/glacial; numbers show the location of the stops. Red dots proposed trail system; red dashes existing trail system; brown line existing roads.

Figure 3: Poorly consolidated pillow lavas, flow till and colluvium make up unit 1H (Fig. 3).

Figure 4: Steep slopes are susceptible to debris flows and slope failures. The inverted fan drainage of 1st, 2nd and 3rd Canyon Creeks, concentrates flow into very restricted channels increasing the likelihood of failure of the infrastructure at critical points downslope (see Fig. 6).

Figure 5: Partial blockage or insufficient flow capacity have created issues at 2nd Canyon Creek with the potential to wash out the road. This photo was taken May 24, 2014 at approximately 4:30PM.



Figure 1

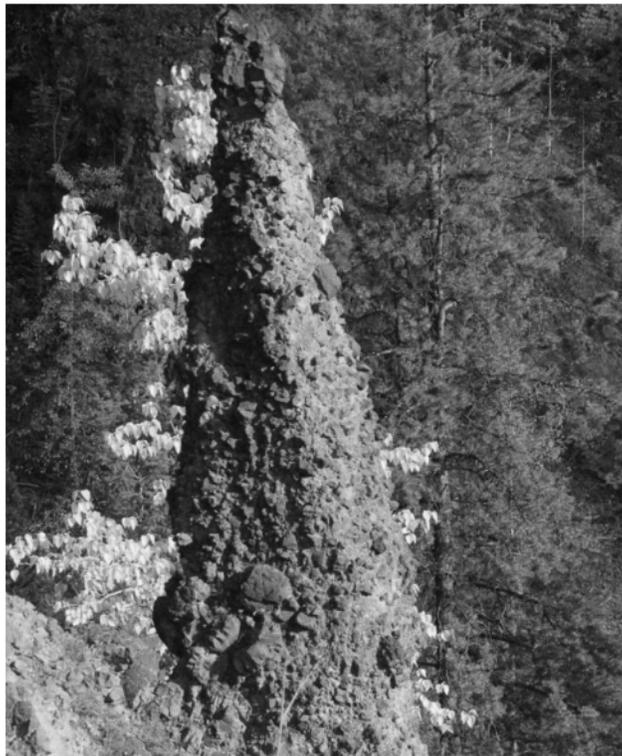


Figure 2

Geological Map – Spahats to Moul Creek

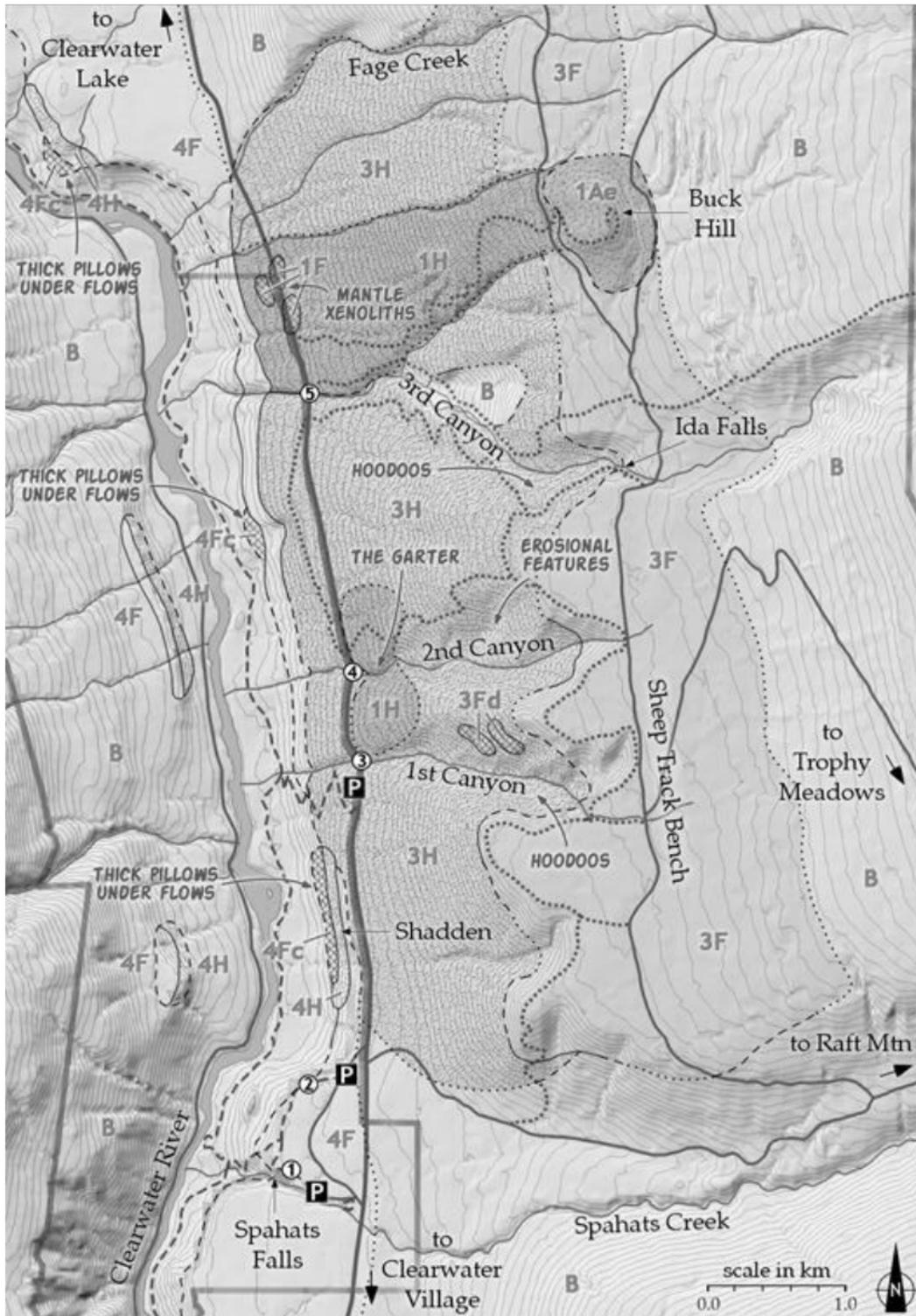




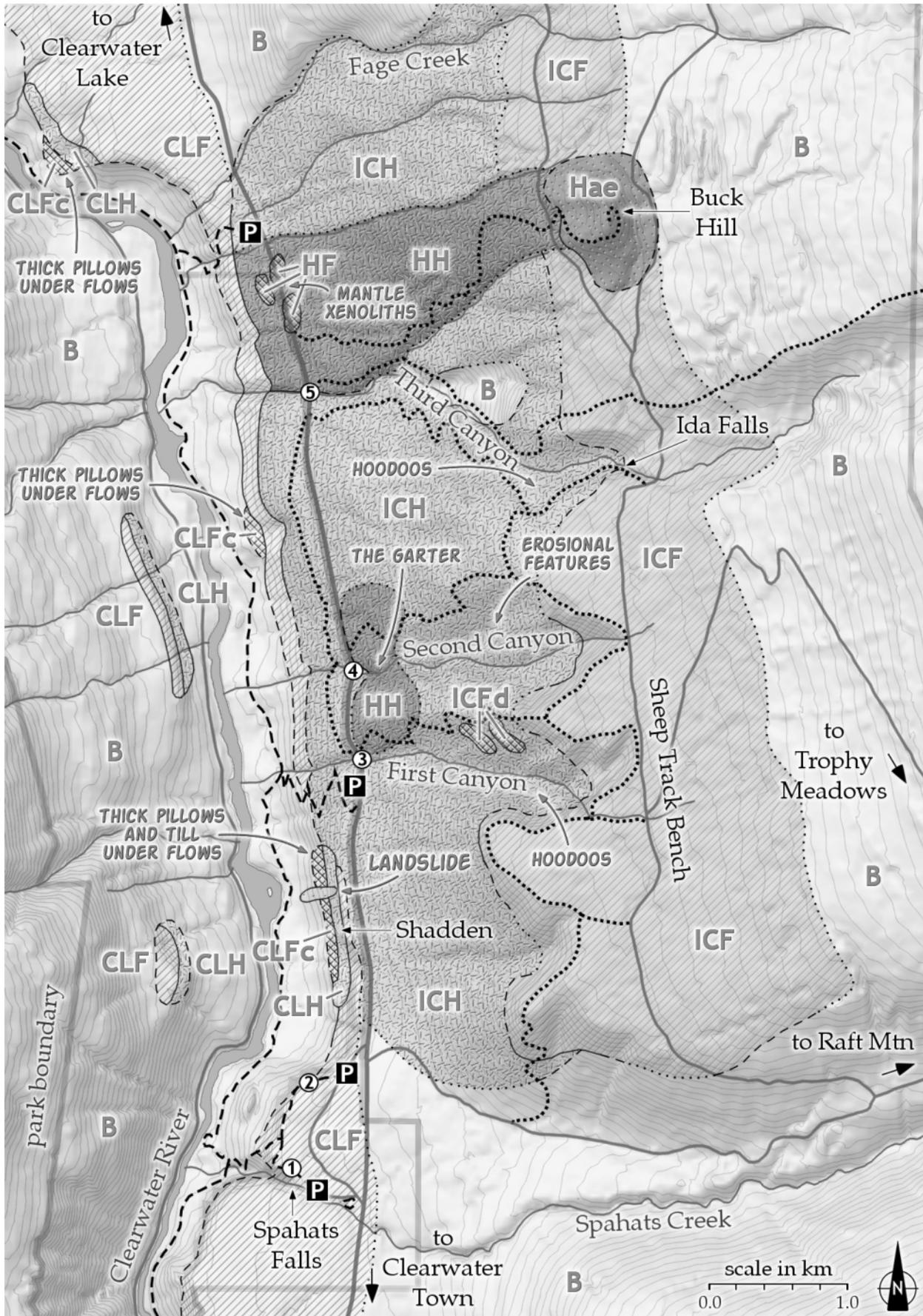
Figure 3



Figure 4



Figure 5



From: [Morris, Kirsty L](#)
To: [Schweitzer, Rob W FLNR:EX](#)
Cc: [Sommer, Rick B FLNR:EX](#)
Subject: RE: Logging in Clearwater
Date: Thursday, October 23, 2014 11:33:26 AM
Attachments: [image001.jpg](#)

Thank you!

Kirsty L Morris | Constituency Assistant

***Terry Lake, MLA Kamloops - North Thompson
Minister of Health***

Email: kirsty.morris@leg.bc.ca
Phone #: [250-554-5413](tel:250-554-5413) Fax #: [250-554-5417](tel:250-554-5417)
Toll Free #: [1-888-299-0805](tel:1-888-299-0805)
Website: www.terrylakemla.bc.ca



Be Green! Read from the screen

From: Schweitzer, Rob W FLNR:EX [mailto:Rob.Schweitzer@gov.bc.ca]

Sent: October 23, 2014 11:16 AM

To: Morris, Kirsty L

Cc: Sommer, Rick B FLNR:EX

Subject: RE: Logging in Clearwater

Kirsty,

Below is a brief update in regards to the current and proposed harvesting in the Clearwater valley. If MLA Lake has any questions or requires further information, please do not hesitate to contact me.

- The 1999 document titled, “Guiding Principles for the Management of Land and Resources in the Upper Clearwater Valley” (GP) applies to the area generally east of the river up towards the park boundary. I believe MLA Lake has a copy of the map that outlines the specific area. This agreement does not apply to the area west of the river.
- During the June 28, 2014, field tour MLA Lake witnessed some of the current harvesting on the west side of the river which is located within the BC Timber Sales operating area. It’s my understanding they have more timber development along with Canfor on the west side of the river. Jessica Gunn, Area Forester (250-587-6765) with the BC Timber Sales program is the best person to contact in regards to their operations.
- On June 30, 2014, the Forest Practices Board received a complaint from the Wells Gray Action Committee (WGAC) and launched an investigation. It’s my understanding the interviews have been conducted and the investigation is ongoing.
- Engagement with the referral group outlined in the GP document remains a challenge. Canfor has sent a letter to the referral group asking them to confirm they still exist and want to be engaged but has not received a response.
- In regards to Cathie Hickson’s email, her technical report was provided to Canfor. I have

confirmed with Canfor that her information was directly passed on to the professionals conducting terrain stability and hydrology assessments and will be considered in their timber development planning.

- The WGAC made a presentation to the TNRD Wells Gray Services Subcommittee in July.
- As a follow up, I was asked to provide an update in regards to the proposed timber development in the Clearwater valley to the Subcommittee in September. Some of the Clearwater council were in attendance as well. My information was well received and appreciated by those in attendance.
- Last week, Canfor also made a presentation to the Subcommittee.
- Canfor is still working to complete their professional assessments (terrain, hydrology and visual). This is expected to be completed by the end of November and Canfor has indicated they will engage the community through a public process and also attempt to meet with the referral group. I've attached a recent article written by Canfor and published in the North Thompson Times for your information.

From: Morris, Kirsty L [<mailto:Kirsty.Morris@leg.bc.ca>]

Sent: Monday, October 20, 2014 10:51 AM

To: Schweitzer, Rob W FLNR:EX

Subject: Logging in Clearwater

Importance: High

Hi Rob

MLA Lake has requested I contact you to see if you can provide us with an update on what's happening re the logging in the Clearwater valley. MLA Lake has started receiving correspondence again from constituents and he would like to draft a suitable response. I have attached a few of the emails received this weekend to give you a sense of their content.

We look forward to hearing from you.

Regards

Kirsty

Kirsty L Morris | Constituency Assistant

Terry Lake, MLA Kamloops - North Thompson

Minister of Health

Email: kirsty.morris@leg.bc.ca

Phone #: [250-554-5413](tel:250-554-5413) Fax #: [250-554-5417](tel:250-554-5417)

Toll Free #: [1-888-299-0805](tel:1-888-299-0805)

Website: www.terrylakemla.bc.ca



Be Green! Read from the screen

From: [Dobi, Dave](#)
To: [Schweitzer, Rob W FLNR:EX](#)
Date: Wednesday, May 21, 2014 4:06:39 PM
Attachments: [recon_block_summary_2013_10_22.pdf](#)

Rob;

An update on our plans...

1. Blocks T122 and T115 are currently planned for spring decking before breakup 2015. Block T122 is laid out and the feedback I have is that it will not have the pine content listed. It still meets FSP tests for moving forward to harvest. Block T115 is non-pine (there was some support for this at the last meeting due to power outages caused by blowdown in this area).
2. Blocks T113, T114, and T119 are on our schedule at this time for harvest in the winter 2015/16 season.
3. Blocks T107, T108, and T109 are planned for evaluation shortly, and may move quickly into the queue if deemed economical. These were the blocks Interfor was originally considering.

Please call with any questions.

D.

ORIGINAL BLOCK #	NEW BLOCK #	GROSS AREA (ha)	RECON STATUS	Within Area "G"	DECISION	Recce Volume Estimate	PI >40%	PI < 40%	Mature	Small PI	COMMENTS
T105	-	67.3	complete	Yes	defer	-		N	Y		Younger (70 - 90 yr) Fir stand. <i>Need to update recce information.</i>
T100	-	149.7	n/a	No	drop	-			Y		Block originally considered in late '90's and has not been actively assessed since. Block revised to remove Caribou "No Harvest" and younger types on lower slopes. Recon planned. <i>As part of the 2013 Old Growth Management area Order in the Thompson Rivers District, the majority of this unit has been confirmed as an Old Growth Management Area and is now reserved from harvest.</i>
T106	-	41.9	complete	No	available	9,415	46%		Y		Need to ground review cable area outside unit to west and N. From flight does not appear feasible. <i>No activity conducted in 2013.</i>
T107		9.0	complete	Yes	outstanding	-	-			Y	<i>Block is immediately east of T103, was considered with T105. Initial development work was conducted in 2013. Plans currently under review to evaluate operational issues identified at initial development phase.</i>
T108		36.0	complete	Yes	outstanding	-	-			Y	<i>Attack in 2006 - steep/low vol. Need to reassess as last check was 2007. Initial development work was conducted in 2013. Plans currently under review to evaluate operational issues identified at initial development phase.</i>
T109	-	16.1	complete	Yes	outstanding	-	60%			Y	<i>Attack in 2006 - steep/low vol. Need to reassess as last check was 2007. Initial development work was conducted in 2013. Plans currently under review to evaluate operational issues identified at initial development phase.</i>
T111	-	31.4	complete	No	available	12,218		N	Y		Small patch size; stand is primarily Spruce/Balsam. Greenwood block - visual quality objectives will need to be met. <i>No further work completed to date.</i>
T112	-	27.5	complete	No	defer	-		N	Y		T113 is priority, and adjacency rules will defer this unit. Stand is currently low incidence of forest health. <i>No further work completed to date.</i>
T113	-	179.1	complete	Partial	available	27,988	63%			some	Some areas of small piece size. Block rolls off plateau. Access will need to be adverse off Trophy Mtn Road. <i>Initial development work has started in this block. Block in 2014 harvest schedule.</i>
T114	-	100.0	complete	Partial	available	17,169	49%			some	Some springs within unit to be addressed through retention. Will need roading in conjunction with T113. Adjacent streams to be assessed. Contouring not showing draws correctly. <i>Initial development work has started in this block. Block in 2014 harvest schedule.</i>
T115	-	36.0	complete	Yes	available	7,157	15%		Y		Greenwood block with small scale salvage history and minor pine component (15%) Meets all requirements. <i>No work was conducted on this block in 2013.</i>
T116	-		complete	No	defer				Y		Fir, Pine, and Cedar. Lower volumes and very steep cable ground above Grouse Creek bench.
T117	T116	77.2	complete	No	defer				part	N	T117 was reconfigured with T116 after a walk-through.
T118 - SE	T118	37.2	complete	No	defer		93%			Y	Piece size is very small, steep slopes. +/- 60% grey in stand. Block field checked and split N to S due to piece size differential. <i>No further work conducted on this block to date.</i>
T118 - SE	T125	26.4	complete	No	available	5,311	83%			Y	Piece size larger than T118, similar mortality, however a small log block opportunity. Field reviewed and split from T118 based on data. <i>Under consideration to develop with T113/T114 and T119.</i>
T118 - NW	T126	91.5	complete	Margin	defer			17%	marginal		Block is very steep/rocky on slope. Small Cw amongst older. short Fd and some Fd vets. Low priority. <i>No further work planned on this block at this time.</i>
	T119	40.8	complete	No	available	12,366	64%			Y	Pine in this block smaller than adjacent - sale/other licensee. <i>Block is north of Fage Creek, south of T114, and west of the Trophy FSR. Initial development work has been started on this block. Block in 2014 harvest schedule.</i>
	T120	36.5	complete	No	available	9,240				Y	<i>North of Fage Creek, west of Road T10A. Small patch size; stand is primarily Spruce/Balsam. Greenwood block - visual quality objectives will need to be met.</i>
	T121	146.6	complete	No	available	24,930	55%			Y	<i>South of Fage Creek to junction of Trophy FSR and Road T10A. There is approx 50 ha of small pine not included in this volume as it is below piece size limits for Canfor. May be harvest opportunity for another interested party.</i>
	T122	28.0	complete	No	available	7,627	52%	Y	Y		Trail subject to management.
	T123		complete	No	-						Under review.
n/a	T124	35.1	complete	No	available	9,010		Y	Y	Y	<i>North of Fage Creek, west of Road T116. Small patch size; stand is primarily Spruce/Balsam. Greenwood block - visual quality objectives will need to be met.</i>
	T128	27.5	complete	No	-				Y		<i>Block located south of Road 80 to Trophy FSR. Under review.</i>

142,431 m3

* Route location work completed on road option from Helsid Road. Option dropped.

PL>40% Within the current identified boundary the pine component of the stand (by net volume) is greater than 40%
 PL<40% Within the current identified boundary the pine component of the stand (by net volume) is significant but less than 40%
 Mature Within the current identified boundary the stand contains trees of a size that meet mill profile, primarily non-pine.
 Small PI Within the current identified boundary the pine component is at or near the lower limits of Vavenby mill profile. Piece size may meet other TSA licensee profile needs.

From: [Sommer, Rick B FLNR:EX](#)
To: [Schweitzer, Rob W FLNR:EX](#)
Cc: [Van der Zwan, Ron FLNR:EX](#)
Subject: FW: Complaint Investigation
Date: Monday, October 19, 2015 1:11:35 PM
Attachments: [IRC197-Local-Planning-Commitments-and-Logging-near-Wells-Gray-Park.pdf](#)
[14031 Publication Letter - Sommer.pdf](#)

FYI, fails to indicate that the final harvesting plans have yet to be determined.

Rick Sommer RPF

District Manager

Thompson Rivers Natural Resource District

Ministry of Forests, Lands and Natural Resource Operations

Phone: 250-371-6501 Fax: 250- 371-6565

Email: rick.b.sommer@gov.bc.ca

From: Oman, Darlene FPB:EX

Sent: Monday, October 19, 2015 12:05 PM

To: Sommer, Rick B FLNR:EX

Cc: Weese, Kristine FLNR:EX

Subject: Complaint Investigation

Rick Sommer

District Manager

FLNRO

Please see the enclosed letter and a copy of the final investigation report that will be released tomorrow. If you have any questions, please contact Glen Pilling at 250-836-3279.

Darlene Oman

Director, Corporate Performance

& Communications

BC Forest Practices Board

T 250-213-4705 C 250-480-8594

www.bcfpb.ca



**Forest
Practices
Board**

Local Planning Commitments and Logging near Wells Gray Park

Complaint Investigation #14031

FPB/IRC/197

October 2015

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The Complaint

The Wells Gray Action Committee (the complainant) filed a complaint on June 30, 2014. The complainant was concerned that Canadian Forest Products Ltd (Canfor), the Ministry of Forests Lands and Natural Resource Operations Clearwater District (the district) and BC Timber Sales (BCTS) were not following a 1999 local resource plan known as the *Guiding Principles for the Management of Land and Resources in the Upper Clearwater Valley* (the Guiding Principles). The complaint mentioned a multitude of on-the-ground logging concerns including (but not limited to) impacts to hydrology, mountain caribou habitat, views, and logging adjacent to Wells Gray Park. However, the main concerns were that the Guiding Principles were not being followed, FLNR was not providing leadership and the public trust established during negotiations of the Guiding Principles had been lost.

The complainant was also seeking a new land use planning process for the travel corridor between Clearwater and Wells Gray Provincial Park. Both the complainant and Board staff asked government about the availability of that process. It is clear from those inquiries that government will not support new land use planning for this area at this time. Therefore, the Board focused on the concerns described above.

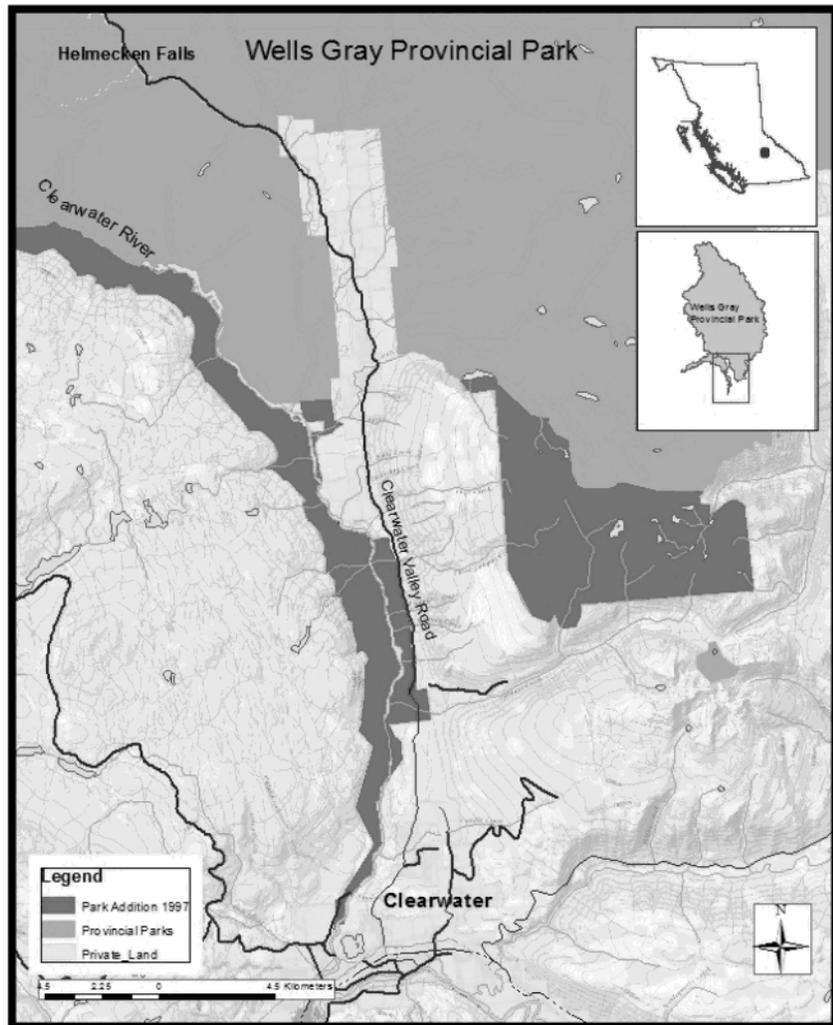


Figure 1. Travel Corridor to Park

Background

Wells Gray Provincial Park is the fourth largest provincial park in BC and is located in east-central BC near the town of Clearwater. In the 1990s, government developed a protected areas strategy and a regional strategic land use planning process that resulted in having two new portions added to the park in 1997. The additions created a corridor of private and Crown land bordered by the park on three sides (see Figure 1). More than 280 000 people visit the park each year, most traveling up the Clearwater Valley Road and accessing many of the park's popular attractions through this corridor.

In 1997, the district woodlot program was exploring the possibility of establishing woodlots in this corridor, but faced opposition from residents. Consequently, the district initiated the Upper Clearwater Process, a consensus based local resource planning process that resulted in establishing new woodlots and the Guiding Principles agreement in 1999. According to the district manager at the time, that process established trust between individuals, businesses and government.

Although the Guiding Principles include a few detailed expectations for forest practices, they are mostly expressions of intent for values other than timber. The area covered by the Guiding Principles is divided into Areas A-G, with some principles that apply to all areas and some principles specific to each area. The Guiding Principles contained a process whereby harvest proposals were to be reviewed by the designated referral group, which could consult all the residents in the area. The referral group would make a recommendation to the district manager, who would decide if the harvest proposal should be approved. At the time the principles were written, the district manager had the authority to make that decision.

In 2004, government introduced the *Forest and Range Practices Act* (FRPA), which effectively removed the district manager's decision-making authority in that harvest approval process. Now, the district manager has limited ability¹ to withhold a cutting permit or road permit based on the input from a third party such as the referral group. However, during the investigation, the current District Manager explained that district managers can use their powers of influence to create desired outcomes. Government has not established the Guiding Principles as formal government objectives, so they have no legal standing under FRPA. Therefore, neither Canfor nor BCTS makes reference to them in their forest stewardship plans.

Many other things have changed locally since the Guiding Principles were developed. A few examples include: the mountain pine beetle epidemic has damaged local forests, older harvesting has been reforested and is greening-up, the local mountain caribou herd is declining and tourism is increasing in importance in the local economy.

The Guiding Principles envisioned regular updates but, despite the significant changes occurring since 1999, they were only amended once in 2000. There has been little harvesting since that time, and consequently no strong need to update the Guiding Principles. In that time period, consultation with the referral group has been inconsistent.

¹ The licence agreement requires FLNR to issue cutting permits if they meet the following criteria: they do not conflict with other tenures; they are within a forest development unit in an approved FSP; and, they do not unjustifiably infringe on aboriginal interests.

Discussion

In 2012, BCTS was planning cutblocks on the slopes to the west of the Clearwater River outside the area included in the Guiding Principles. BCTS was aware of the Guiding Principles and that they referenced visual quality of the area they were planning for harvest, as viewed from within the Guiding Principles area. Therefore, BCTS completed visual quality assessments that showed the cutblocks would meet the visual quality objectives for the area and sent a letter to the referral group explaining the plan. Unfortunately, the letter was never delivered to the referral group, so it did not know about that harvesting until logging started.

In 2012, Canfor was also planning harvest opportunities within the Guiding Principle area. Canfor had not been involved in the development of the Guiding Principles. However, Canfor's staff had heard about the Guiding Principles so they asked the FLNR district for information. The district gave Canfor a copy of the Guiding Principles document and a map. The map shows the eastern boundary of Area G going only half way to the Park boundary on the east, whereas the complainant and referral group think the boundary of Area G goes to the Park boundary. Regardless, both the district and Canfor say that they will treat the whole area the same. Therefore, for the purposes of this investigation, the Board does not consider the boundary disagreement a significant concern.

Canfor met with the referral group in January 2012, where it explained its plans for developing the area. It told the group that following FRPA would basically ensure the Guiding Principles were followed. It was clear to the referral group members that the scale of harvest, concept of salvage, and consideration of other values in Canfor's plan was not what they envisioned under the Guiding Principles.

The referral group was also concerned that the Guiding Principles decision process was not being followed. Both the licensee and District expected the referral group to make comments to the licensee, rather than government, and then the licensee would decide how to proceed. The referral group voiced concern that government had broken the agreement it had made with the residents in 1999. Following that meeting, one referral group member quit the referral group and started the complainant group. The referral group met with the district and Canfor again in 2014.

Other than these two meetings, up to the filing of this complaint, there was little consultation between the district, Canfor, the referral group and the complainant. The referral group and complainant's concerns are more at a land use or strategic planning level—for example, making the corridor a special land use zone focused more on resources other than timber. However, FLNR and Canfor were not dealing with the landscape level concerns and wanted public comments at the operational planning level. The Board has previously said that, "If concerns are directed to the wrong planning level, they cannot be properly addressed and the result will be dissatisfaction for all parties."² In this case, such dissatisfaction has resulted in a lack of trust between the participants.

Furthering this distrust, the parties have been communicating through form letters and in the media, rather than sitting down together and working through the issues.

² FPB, [Bulletin 003 - Opportunity for Public Consultation Under FRPA](#), 2003, Page 2.

Conclusions

The main concerns in this complaint were:

1. Are the Guiding Principles being followed?

For the most part, the Guiding Principles were general expressions of intent for forest resources. Since the Guiding Principles are so broad, it is difficult to verify compliance with them. BCTS and Canfor are following a similar referral process as envisioned in the Guiding Principles, as they relate to FRPA, but the consultation has been ineffective for a number of reasons.

2. Is the Ministry of Forests, Lands and Natural Resource Operations providing leadership?

Government has provided leadership at a strategic level by establishing broad provincial objectives through FRPA and does not plan to start a new land use planning initiative for this area. At the operational level, the district continues to engage with Canfor and the referral group, but under FRPA, it is the licensee and not the district that has the leadership role in developing harvesting proposals.

3. Has the public trust established during negotiations of the Guiding Principles been lost?

It is difficult for the Board to determine if the public trust has been lost, however it is clear the referral group and the complainant view Canfor's harvest plans as contrary to what was negotiated in the late 1990s. In their view, the district has broken the original agreement and they have lost trust in the district, Canfor, and the FRPA legislative regime.

In the late 1990s, the residents of the Upper Clearwater Valley and the district worked hard to develop the Guiding Principles. The Guiding Principles process helped the district manager decide how forest resources would be managed and conserved. Although the legislation that supported that process has changed, it is clear that the residents are still passionate about maintaining a local voice in forest management. It is also clear that Canfor has the legal right to harvest timber, the responsibility for forest management in the area and the intent to harvest in the area. Although BCTS also has the right to harvest and responsibility for forest management in the area, BCTS has no immediate plans for developing its operating area in the Upper Clearwater Valley.

During the investigation, the Board asked the district manager if there was an opportunity for a small local land use planning process to revisit the objectives for this area. The district manager said no. Instead, he said he would like to see the existing Guiding Principles process followed. However, under current forestry legislation, the process of reviewing and issuing a cutting permit is different than when the Guiding Principles were developed, and this requires the complainant and the referral group to adapt their roles to this new process.

Canfor has publicly said it will respect the Guiding Principles and has also stated publicly, through the local media, that "we have been working with the public through the Upper Clearwater Referral Group to design our harvesting activities in a way that is respectful of the Guiding Principles for forestry as they apply to this area" and, "there is no reason a sustainable forest sector, a healthy environment and a world-class tourism industry can't coexist."

Recently, Canfor and the referral group had an encouraging meeting, with both showing a willingness to re-engage in discussions about harvesting and management of other resources. The district also plans to meet with the referral group and Canfor. Clearly the challenge for these three groups is to determine their respective roles in a process for consultation about harvesting and forest resource management.



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For more information on the Board, please visit our website at: www.bcfpb.ca



File: 97250-14031

October 20, 2015

VIA EMAIL Rick.B.Sommer@gov.bc.ca

Rick Sommer
District Manager, Thomson Rivers Natural Resource District
Ministry of Forests, Lands and Natural Resource Operations
1265 Dalhousie Drive
Kamloops, BC V2C 5Z5

Dear Rick Sommer:

Re: Publication of Board Report on – File 14031 / Local Planning Commitments and Logging near Wells Gray Park

Please find attached a copy of the final report for the above Forest Practices Board investigation. The report will be delivered to the Minister of Forests, Lands and Natural Resource Operations and the Minister of Environment on Tuesday, October 20, 2015. The report will also be made available to the public on the Forest Practices Board web page <http://www.fpb.gov.bc.ca> on the same date.

If you require printed copies of the attached report or any other published report, please print a copy from our web page (under “Reports and Publications”) or contact our communications section toll free at 1-800-994-5899 to have copies sent to you.

Sincerely,

A handwritten signature in black ink, appearing to read "Ken Zielke", written over a circular scribble.

Ken Zielke
Director, Investigations

Attachment

Thompson Nicola Regional District
Wells Gray Country Services Subcommittee
September 17, 2014

Opening

- Name, Thank you for inviting me here tonight to speak with you
- I'm here on behalf of the Thompson Rivers NRD and Rick Sommer District Manager.
- DM have SDM responsibilities under our legislation and must remain unfettered while making their decisions.
- Although Rick would really like to be here speaking with you he must maintain an arm's length approach to these matters and has assigned me to take the lead on this file.
- Rick is kept well informed in regards to all sides of the issues and has a very good understanding of the land use planning that has occurred given his background with industry in the area before his current role.
- I would like to present you with some background/history, move onto the changes that have occurred to forestry legislation and end with an overview of the engagement process to date.

Background

- July 1995 the KLRMP came into effect
- It took over 6 years and involved 40 reps from gov, industry, public interest, stakeholders (local)
- This process considered social, economic and environmental aspects of the plan area
- At the time gov was establishing 16% of crown land as parks, needed to balance this
- Recommendations from the plan still being implemented WHA, fossil beds, etc.
- GAR orders are still being established today (DWR, Rattlesnake, etc.) is the tool
- In 1999 a local land use agreement titled "Guiding Principles for the Management of Land and Resources in the Upper Clearwater Valley" was reached between the government, stakeholders and residents in the area.
 - Can provide this committee with a copy if you wish
 - Non legal agreement
 - Variety of strategies and objectives to be considered in regards to industrial use
 - Seven areas identified as A-G
 - Includes the crown land
 - East of the Clearwater River/Park
 - Partially upslope above the Clearwater Valley Road
 - South just above Spahats Falls
 - North to Park boundary
 - Although some history of exact area lost we unilaterally agreed to extend the are as described above
 - Outlines an engagement process through a "Referral Group"
- In 2012, Canfor informed gov they were looking to begin development in the area

- Although the GP were determined to be non-legal, government encouraged Canfor to follow the spirit and intent of the agreement
- Canfor committed and began the engagement process. First meeting Feb. 2012. Will speak in more detail about the engagement to date later on.

Changes to legislation

- In 2004 (full implementation in 2006), the Forest and Range Practices Act replaced the Forest Practices Code
- FRPA required licensees to develop FSP versus the Code FDP
- FSP establish results and strategies for the 11 values under FRPA (soils, visual quality, timber, forage, water, fish, wildlife, biodiversity, recreation resources, resource features, cultural heritage)
- Instead of a prescriptive environment, FRPA allowed professionals (forest, engineers, biologists, etc.) to manage in accordance with the results and strategies approved in the FSP
 - Code – SDM test - manage and conserve
 - FRPA – SDM test – consistent with FSP, no infringement of right/title
- EXAMPLE
 - Code – gov professionals may have done a watershed assessment, providing recommendations to DM to approve or not a cutting authority
 - FRPA – professionals would conduct their own assessments to ensure it meets gov objectives, their FSP and adequately manages FRPA values.
 - C&E – Code inspect for compliance, FRPA back end auditing (FREP, MRVA)

Engagement

- Previously mentioned first meeting between Canfor and RG Feb. 2012.
- DM met with RG April 2012.
- Some challenges followed and a number of changes to RG chairs occurred
- Over the next 1 – 1 ½ years government received and responded ~40 letters
- Gov encouraged concerns to be directed to Canfor to be considered in their planning process
- March 2014 – RG meeting held, Canfor and government there.
 - Canfor presented changes to plans based on feedback received and professional work
 - Canfor agrees to follow expand GP intent east to park boundary
- May 2014 – WGAC committee was formed
- May 2014 – Canfor sends letter to RG asking if they still exist, no response
- June 2014 – MLA Lake and I attend the WGAC field tour
- July 2014 – FPB notifies applicable parties they will be investigating a complaint in regards to process and not actions in the UPCV.
- October 2014 ?? – Canfor is planning on some sort of engagement process to provide the public with future information.

Summary

- Land use planning has taken place for this area.
- Gov feels these processes are complete and are not interested in opening up
- Gov went even farther with the adoption of the GP
- Gov still supports the GP and RG process and encourages the continuation
- Throughout this process if any questions arise, do not hesitate to contact me.

Questions?

- Be prepared for the salvage question

MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS BRIEFING NOTE

File: 280-20/10280-20 UPCL

I PREPARED FOR:

Rick Manwaring, Assistant Deputy Minister, South Area **for INFORMATION**
(as requested by Rick Sommer, District Manager Thompson Rivers District)

II ISSUE:

Canfor's proposed harvesting in the Upper Clearwater Valley

III BACKGROUND:

In 1999, a local land use agreement titled "*Guiding Principles for the Management of Land and Resources in the Upper Clearwater Valley*" (GP) was reached between the District Manager (DM) of the former Clearwater Forest District, stakeholders and residents of the area. The document outlined a variety of strategies and objectives that were to be considered on 7 specific areas (A – G) in regards to future industrial use of crown land. In addition, the GP provide for an information exchange process and established a referral group to fulfil this objective. The crown land included in the GP is still considered to be part of the timber harvesting land base (THLB) and there has been very limited harvesting in the area since the agreement was endorsed.

In 2012, Canfor signalled they would begin timber planning in the area. The DM reviewed the GP document and determined it was a non-binding agreement under today's legislation. Canfor was provided the document and encouraged to follow the "spirit and intent" of the agreement. They commit to the process and attempted to hold an information meeting with the referral group which turns into more of a public gathering. Shortly thereafter, the referral group chair resigns and it was difficult to confirm whether or not the group still existed as per the GP.

Following this meeting, the government received 25 letters from various individuals concerned about future harvesting. The general response back to the writers encouraged them to engage Canfor with their concerns/interests so these can be considered in their timber development plans.

In June 2013, Canfor and Thompson Rivers District staff (DTR) met with Tom Dickinson, Dean of Science at Thompson Rivers University. Tom is a very well respected member of the Upper Clearwater Valley community, has a research facility in the valley and was a member of the original referral group. He agrees to facilitate future meetings and be a conduit in the exchange of information between all parties.

An information meeting was held between Canfor and the referral group in March 2014; DTR staff were present. The lack of an organized referral group challenges the ability for the parties to follow the process outlined in the GP, however three themes seemed to emerge from this meeting:

1. The location of Area G appears to be in dispute.
2. The GP refer to salvage harvesting as an accepted practice although the actual definition of salvage is not clearly defined in the document, legislation or policy.
3. The flexibility (or lack thereof) a Statutory Decision Maker (SDM) has under today's legislation versus the authority they had under the Forest Practices Code.

IV DISCUSSION:

In the near future, DTR plans on sending the referral group a letter addressing the 3 points listed above. Canfor remains engaged in the process outlined in the GP and the next meeting between all parties is expected to occur sometime in June once professional assessments have been completed on the proposed blocks.

Canfor has indicated they will be submitting their first cutting permit application by September 2014 with harvesting to commence in January 2015. It's our understanding there will be 2 pine leading blocks proposed in their first submission with pine beetle attack levels >40%. One of these blocks will partially fall within Area G. Of note, after listening to the community concerns, Canfor has substantially altered their original plans.

Given the amount of negative public feedback received to date, there is a high likelihood any decisions and/or operations may be challenged legally, through the Forest Practices Board or by way of civil disobedience. The local MLA, the Minister of FLNRO and executive should all expect a significant increase to the profile of this issue in the coming months.

V CONCLUSION:

The majority of the proposed future harvesting does not fall into the "Areas" outlined in the GP and the agreement is not considered legal direction. The area remains part of the THLB, however, Canfor has agreed to follow the spirit and intent of these principles and have extended this strategy outside of the areas identified in the GP. The SDM has very limited flexibility when considering whether or not to approve a cutting permit. DTR as well as Canfor remain committed to the process outlined in the GP document.

VI COMMUNICATIONS PLAN ATTACHED:

Yes No

Rob Schweitzer, Resource Manager, DTR

May 27, 2014

UPPER CLEARWATER GUIDING PRINCIPLES BACKGROUND

- 2000 UPGP agreement signed by the district manager of the day.
- Late 2011 we receive notification that Canfor would like to begin development in the UCV.
- Locate and review the UPGP document and provided a copy to Canfor.
- January 2012 dispute over the area covered under this agreement. No map was attached to the document and nothing on file. Goward provides a string model we agree to extend Area G to the south.
- The DM communicates the spirit and intent of this agreement should be followed.
- January 28/12 Canfor holds a meeting with the referral group. Turns into a public meeting.
- February 2012, a website is created by one of the referral group members that personally attacks the Canfor rep who was at the meeting and indicates no logging should occur.
- It's our understanding the referral group chair (Ryan Papp) resigns.
- May 2012 I take over the lead of this file to avoid the SDM becoming fettered.
- June 2012 meet with Parks to discuss the UCV residents push to expand park boundaries.
- Beginning in July 2012 we begin to receive a number of letters (30) from the residents in the UCV concerned about Canfor's proposed developments. Our consistent response is to contact Canfor directly with their concerns so they can be considered in their planning. Canfor is copied on all these letters.
- October 2012 meeting with Canfor to get an update on their development and reinforce the need to honor the UPGP agreement and engage public. They are willing but have heard nothing back from the referral group since the Jan 28 meeting.
- November 2012 meet with Canfor again to review expectations.
- February 2013 Canfor notifies us that the new chair of the referral group (Steve Murray) has resigned. Unclear for a period of time if the referral group still exists.
- April 2013 Canfor sends a letter to referral group. May 2013 referral group responds indicating Tom Dickinson is the new point of contact.
- June 2013 Canfor and I meet with Tom D. He agrees to facilitate the flow of information and encourages Canfor to engage with the group. They agree. However there is some trepidation on Canfor's part as to how the shared information may be used. (Jan 2012 scenario)
- July 2013 to fall of 2013 – Canfor begins preliminary development and professional assessments. We remain in close communication.

- March 26, 2014 meeting – unorganized, unclear who would chair, no ground rules set, Tom D was unfortunately late. Was supposed to be with the referral group but a number of people attended. 3 attendees wanted to tape the meeting and Canfor was not willing to continue if this occurred given the promises that were made at the Jan. 2012 meeting and how this information got used.
- Finally information was presented by Canfor, not many questions but some good conversation.
- April 3, 2014 Canfor, Tom and myself meet to discuss concerns we had heard from the meeting and how to proceed/exchange information.
- April 2014 to present - a number of new letters are received and again we direct them to engage with Canfor.
- May 2014 – Erik Milton resigns from the referral group and forms the Wells Gray Action Committee. Appears they want a logging moratorium on the entire valley which is outside of the areas identified in the UPGP agreement.
- May 2014 – I write a briefing note for executive providing them with an update.
- May 2014 – I meet with MLA Lake and provide him with a briefing.
- May 2014 – I continue to attempt to make contact with Tom D but he is out of the country.
- June 28, 2014 – MLA Lake and I attend the WGAC field tour.

Upper Clearwater Key Points – May 2014

- Guiding Principles endorsed in 1999/2000 under the FPC (this legislation provided SDM with much more flexibility than FRPA).
- Although a great demonstration of land use planning the GP document is not legally binding and the area is considered within the THLB by the Chief Forester.
- The GP document outlines a “referral group” process.
- Very limited harvesting in this area since that time.
- 2012 Canfor indicates they want to start planning in the area.
- Current DM reviews the GP and would like the spirit and intent followed. FRPA and the FL document does not provide SDM with much flexibility.
- Feb. 2012 Canfor agrees to respect the spirit and intent and meets with the referral group.
- Turns out to be more of a public meeting, discussion turns personal and website created attacking Canfor staff.
- Referral group chair resigns and the group no longer exists as outlined in the GP.
- Concerned residents begin a letter writing campaign. Government receives approx. 25 letters, general response is to inform Canfor of your specific interests/concerns.
- Canfor continues planning and commits to a future meeting with referral group once more details are available.
- Canfor and the government ask Tom Dickinson (Dean TRU) to take on the role as a facilitator as he was the original member of the referral group and participated in the process.
- March 2014 a referral group meeting was held in Clearwater. Confusion to who was attending and who they were representing. Canfor presented their updated plans. Through the discussion it was clear there is some misunderstanding of the GP under today’s legislation and the crown land it applies too.
 - Location of Area G. Based on the information available, government believes it to be mapped correctly. Some of the group feels it extends further east to the park boundary.
 - Definition of salvage harvesting. This is referred to in the GP document but not defined. Under FRPA salvage harvesting is defined through the results and strategies approved under a licensee’s FSP. Group feels it is small incursions only.
 - The flexibility (or lack thereof) a SDM has under FRPA rather than the FPC. Ultimately the main approval that guides harvesting is done under the FSP. The FL clearly states that the DM will issue a CP unless they feel there is infringement to a FN right or title.

- Next step(s):
 - SDM needs to take a cautious approach when engaging the referral group or others so not to be unduly influenced or fettered in any matter.
 - Government plans on attempting to clarify the 3 points listed above in writing.
 - Canfor has committed to holding another meeting late June/early July with the group once more of the professional assessments have been completed. (Terrain, hydrology, visuals, etc.)
 - Canfor has tentative plans to submit CP applications late summer/early fall with harvesting to begin this winter.
- Other information:
 - Canfor's tentative plans only include a very minor amount of timber in Area G.
 - 2 blocks this winter (gross areas <40ha), one is located in Area G.
 - 3 more blocks next winter (2015/16) partially in Area G but may be deleted.
 - 3 more blocks haven't been reviewed yet.
 - OGMA and caribou GAR orders have been established restricting harvesting in the general area.
 - FSP 5.7.1 – Risk of damaged timber pine 40% insect/fire >20% exempt from block size and adjacency.

Webb, Steven RPF FLNR:EX

From: Gunn, Jessica FLNR:EX
Sent: Tuesday, December 8, 2015 9:04 AM
To: 'Hans Wadlegger'; sepp@wadlegger.ca
Cc: Miller, Kyler S FLNR:EX; Muglich, Rowena FLNR:EX
Subject: A89947

Just a heads up that Steve chatted with Trevor Goward yesterday (he called for another reason) but also to give him the heads up that there is some more logging that will be taking place this winter on the West side of the Clearwater river. This Sale was sold before the Referral group came together with their new name. They were referred to previously and no response was given back.

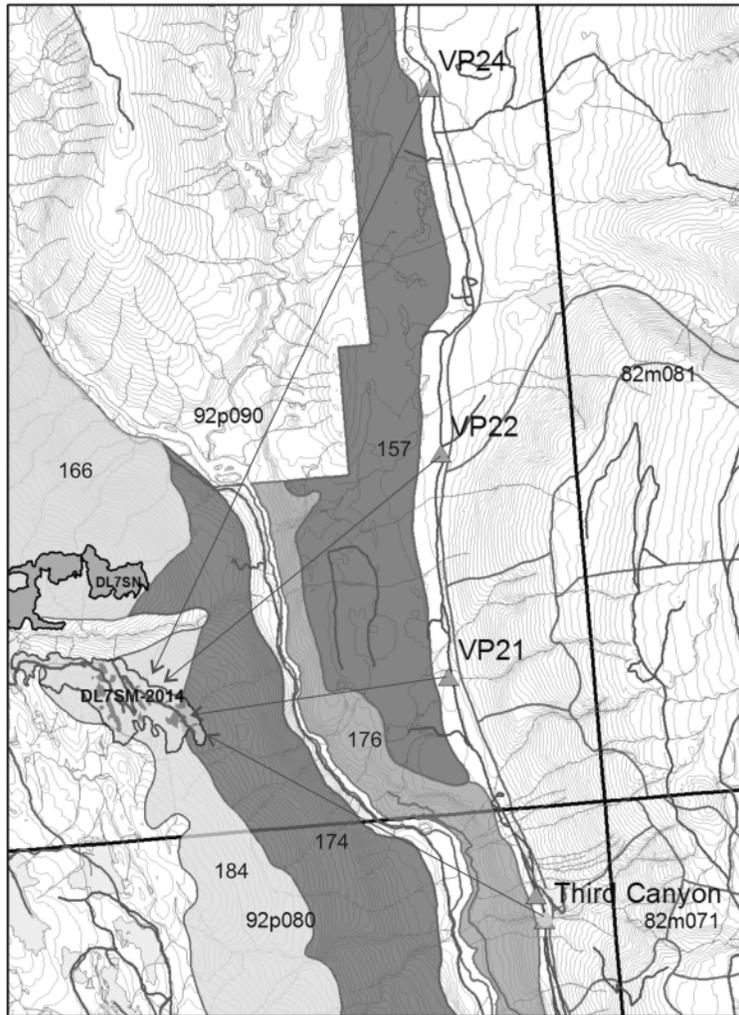
I don't think there will be any road blocks that will happen but may have some lookey loos hanging around as the block is being harvested or things said around town.

I know Wadlegger Logging and Construction will do their best managing this block as it could become an Upper Clearwater issue. Visuals have been completed on this area and we are well within our visual landscape sensitivities. The referral group has taken it upon themselves to try to manage the visual landscape in their eyes and not what has been done in the Kamloops LRMP.

If you have any issues please let us know so we can deal with them. I just wanted to give a heads up so that you aren't caught off guard by anything.

Cheers,

Jessica M. Gunn, RPF
Area Forester
BC Timber Sales - Clearwater Field Team
Office - (250)-587-6765
Cell - (250)-674-8491
Fax - (250)-587-6790
Jessica.Gunn@gov.bc.ca



**BCTS David Lake VIA
DL7SM-2014 Update
Produced by
RDI Resource Design Inc
January 2014**

- ▲ Quesnel-BCTS
- 14-DL7SM_Roads
- 14-DL7SM_WTRA_NP
- 14-DL7SM_Block
- VSU_NUMBER**
- 157
- 166
- 174
- 176
- 184
- 206
- 208
- Ften_rds
- David2012-1-BLKS



BC Timber Sales - Kamloops
Clearwater Field Team

David Lake Visual Assessment

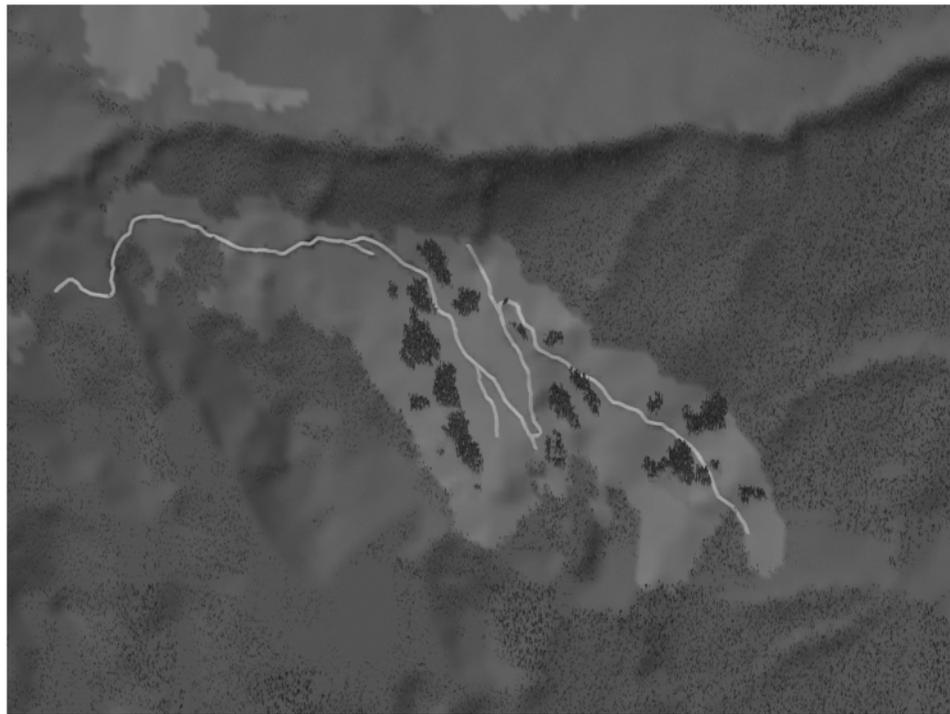
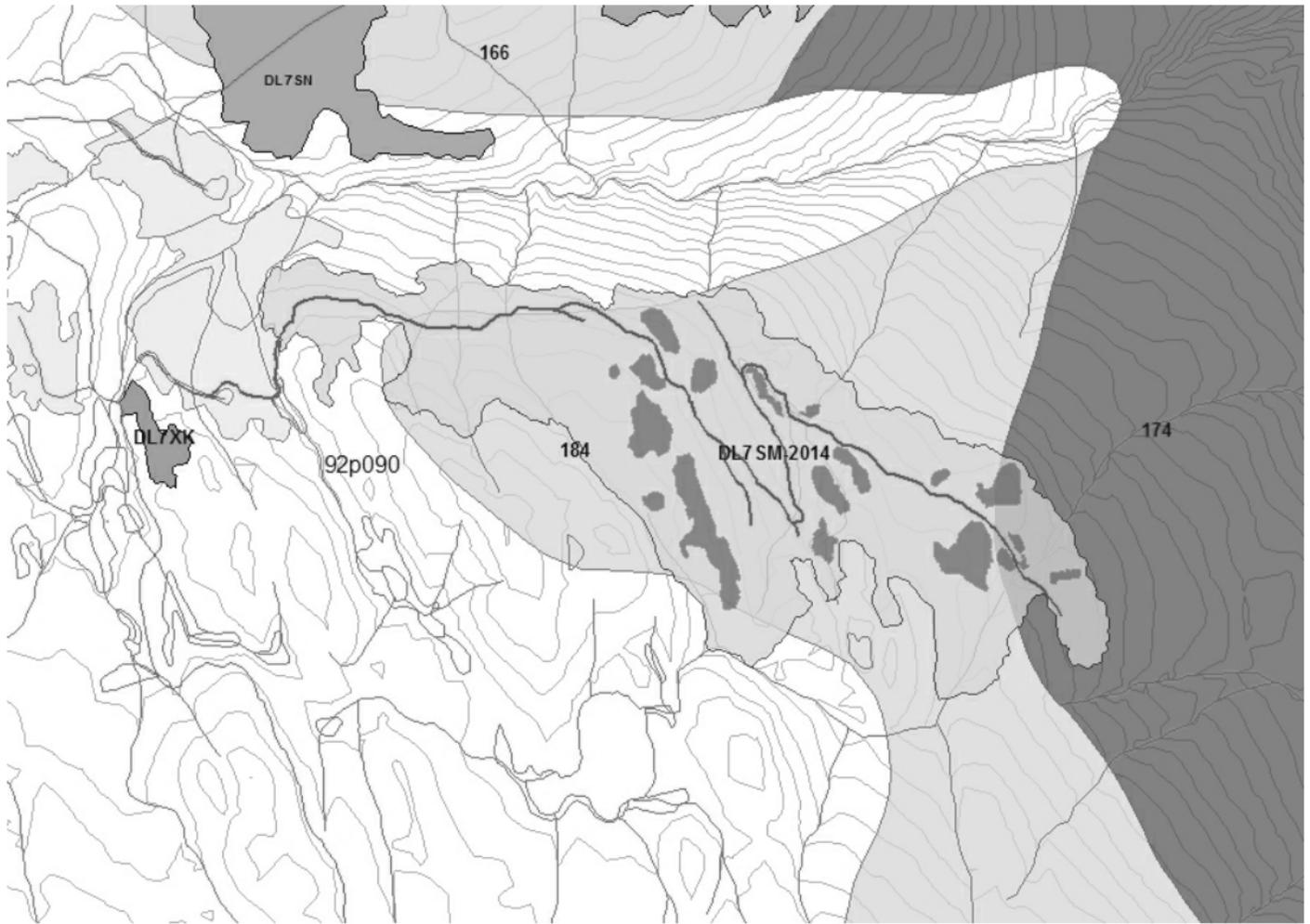
A89947 (DL7SM) 2014 Amendment

with Reference to September 2012 Report Blocks
DL7SM, DL7SN, DL7UJ, DL7UP, DL7XK, DL7XL, DL7R6, DL7R8, DL7UU

produced by
RDI Resource Design Inc
January, 2014

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11	VP 21 Percent Alteration
12	VP 22 Analysis
13	VP 22 Percent Alteration
14	VP 24 Analysis
15	VP 24 Percent Alteration



DL7SM 2014 with WTPAs and Roads

Visual Impact Assessment Summary Table

Clearwater Field Team

BCTS Kamloops Business Area

Licence Number	A89947 A89948 A90519	CP# & BLK #, or RP#:	DL7SM DL7SN DL7UJ DL7UP DL7XK DL7XL DL7R6 DL7R8 DL7UU	Map Reference #:	92p090	Proposed year of Harvest	2014	Proposed Silv System	CC with WTPAs
Type of Proposed Alteration (e.g. Cutblock, Road or Pipeline R/W, Oil lease, etc.)					Cutblock				

Licence	Block	Mapsheet	VSU #
A89947	DL7SM	92p090	184-174
A89948	DL7SN	92p090	166
	DL7UJ	92p090	144-NVS**
	DL7UP	92p090	144-NVS*
	DL7XK	92p090	NVS*
	DL7XL	92p090	NVS*
A90519	DL7R6	92p090	NVS*
	DL7R8	92p090	166-NVS*
	DL7UU	92p090	NVS*

*NVS in VSU column means entire area is outside of VSU coverage.

** Block is in previously unmapped visible area

VISUAL LANDSCAPE INVENTORY LABEL Kamloops LRMP

VSU#	VSC	VAC	EVC	eVQO
166	3	M	R	M
144	3	M	M	M
174	2	M	R	PR
184	2	L	R	PR

EVC does not exceed eVQO in any VSU

VIEWPOINTS & VIEWING CONDITIONS

Block	VP 3rd*	VP21	VP22	VP24
(View Dist.)	(5km-MG)	(3km-MG)	(4km-MG)	(8+km-BG)
VP Type	Road Informal; Canyon Feat.; Significant	Road Informal; Buffalo Ranch; Significant	Road Informal; Minor	Road Informal; Wells Gray Guest Ranch; Significant
DL7SM	VIS	VIS	VIS	VIS**
DL7SN	VIS	VIS	VIS	VIS**
DL7UJ	VIS	VIS	NVS	NVS
DL7UP	NVS	NVS	NVS	NVS
DL7XK	NVS	NVS	NVS	NVS
DL7XL	NVS	NVS	NVS	NVS
DL7R6	NVS	NVS	NVS	NVS
DL7R8	NVS	NVS	NVS	NVS
DL7UU	NVS	NVS	NVS	NVS

*VP 3rd is at Third Canyon

** Potentially Visible Only

ASSESSING BASIC VQO DEFINITION

Do the proposed alterations, in combination with any existing Non-Veg alterations, achieve the basic VQO definition for the established VQO from each of the identified viewpoints?

VP 3rd Canyon VSU 184-174 (PR) Yes	VP 21 VSU 184-174 (PR) Yes	VP 22 VSU 184-174 (PR) Yes	VP 24 VSU 184-174 (PR) No*
VSU 166-174/144(PR) Yes	VSU 166-174(PR) Yes	VSU 166-174(PR) Yes	VSU 166-174(PR) Yes
VSU144 (M)-NVS Yes	VSU144 (M)-NVS Yes		

If applicable state reasons why the proposal does not achieve the basic definition.

Rationale for combining VSUs.

*VSU 184 is a narrow ridgetop sliver seen together with the much larger VSU 174 at the base. Block DL7SM crosses both VSUs. The VSUs were combined for logical analysis (landform as seen from viewpoints). The alteration is somewhat large from VP 24 but well-designed. The viewpoint offers only potential viewing towards the blocks, in background view.

Although VSUs 166 and 144 have M VQO, these were combined along with the north portion of VSU 174 laying at the base of VSU 166 for logical analysis, with the aim of meeting PR. Block DL7SN is fully located in VSU 166. Block DL7UJ is fully located in an area marked in Visual Landscape Inventory as NVS (not visible) adjacent to VSU 144.

Partial Retention is defined as "an alteration of a forest landscape resulting from the presence of cutblocks or roads, such that, when assessed from a viewpoint that is representative of significant public viewing opportunities, the alteration (a) is easy to see, (b) is small to moderate in scale, and (c) has a design that appears natural and is not angular or geometric."¹

If applicable, which basic VQO definition would the proposed alteration in combination with any existing Non-VEG alterations meet?

N/A or P R PR M MM EM

The proposed alterations in their entirety meet PR from all viewpoints with the exception of the "potential" view from VP 24 which is a background view (8.5km) and only potential if seen through the trees

ASSESSING VISUAL DESIGN

Do the proposed alterations exhibit elements of good visual design? YES NO

Do the proposed alterations respond to the lines of force analysis? YES NO

If No why?

Design principles and practices used to blend the proposed alteration(s) with the landscape (e.g. edge treatment & feathering, irregular boundaries, leave trees/patches, etc.):

The blocks are screened for the most part by intervening trees and topography along the Wells Grey Park Road. Blocks DL7SM and DL7SN are most evident, with possible glimpses DL7UJ further away in glimpse views from 3rd Canyon, and the first two from longer-term views from VP 21 (Buffalo Ranch), VP22 - a roadway view, and in background view from VP24 (Blackhorse Guest Ranch). The blocks are well-designed, following lines of force. The planned WTPAs in DL7SM break up the block considerably. A recommended addition of two more WTPAs designed by RDI would further the reduction of overall form and scale.

Are there existing human made alterations visible in the unit showing no or poor design?

NO YES

¹ Forest and Range Evaluation Program, 2008. Protocol for Visual Quality Effectiveness Evaluation Procedures and Standards, p.10.

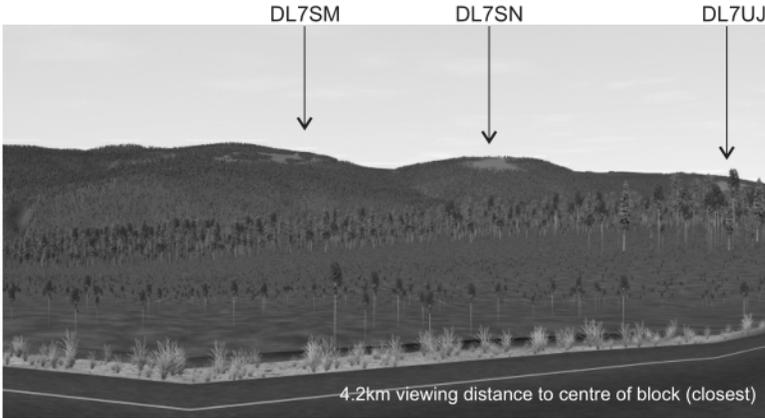
Viewpoint



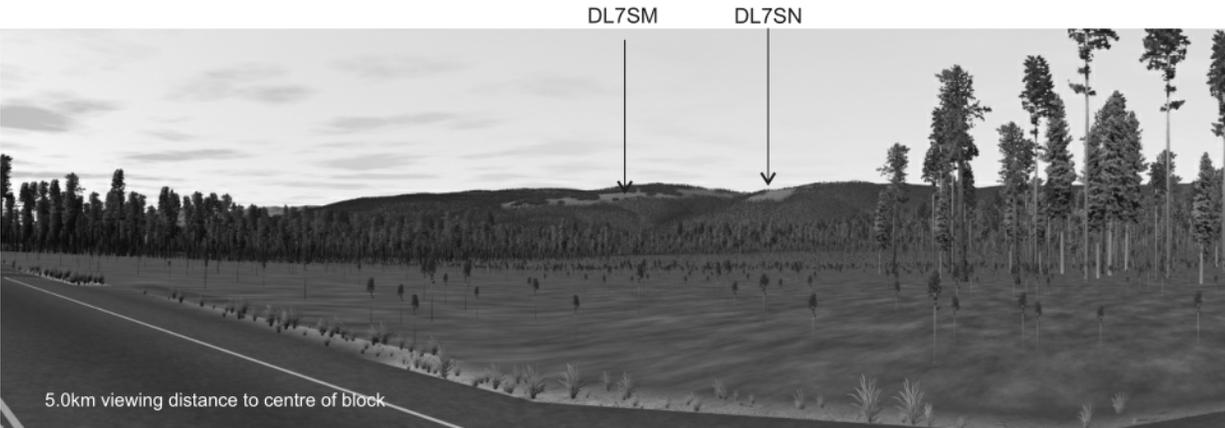
3rd



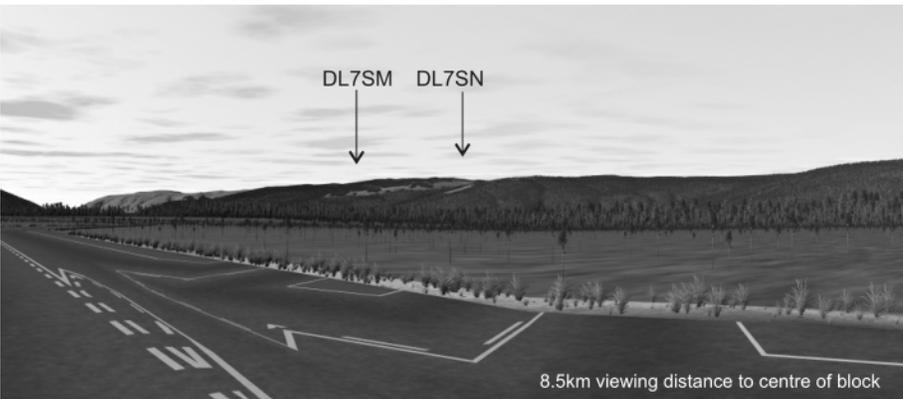
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22



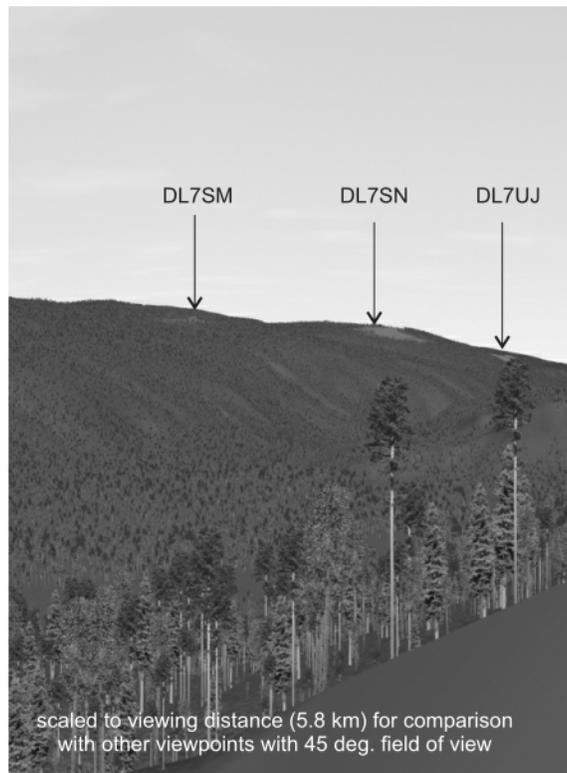
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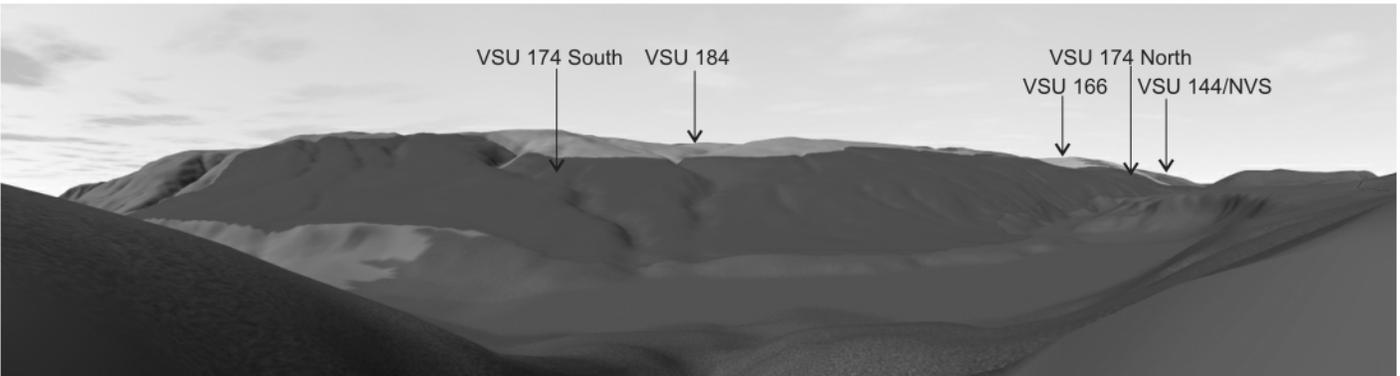
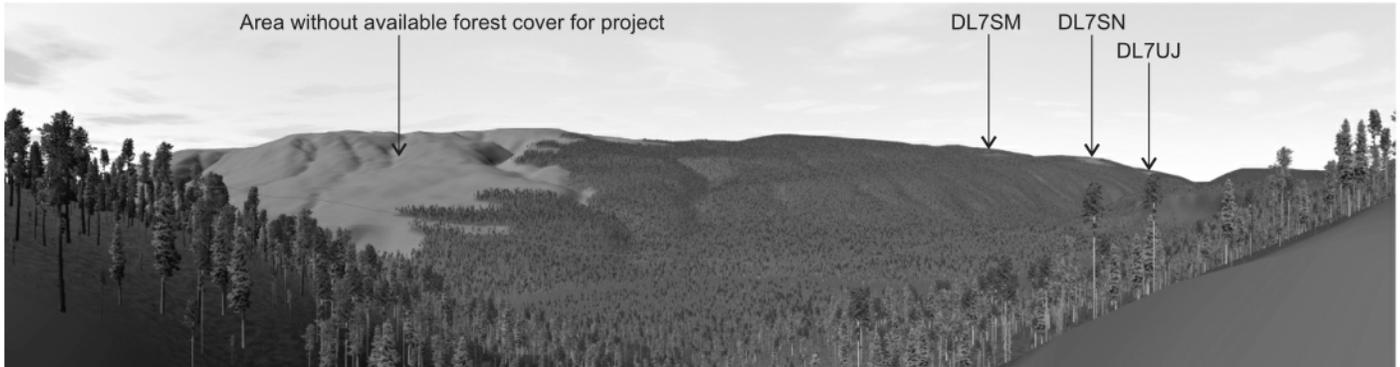
All views scaled to viewing distance for comparison , 45 deg. field of view.
See next pages for detailed viewpoint analyses.



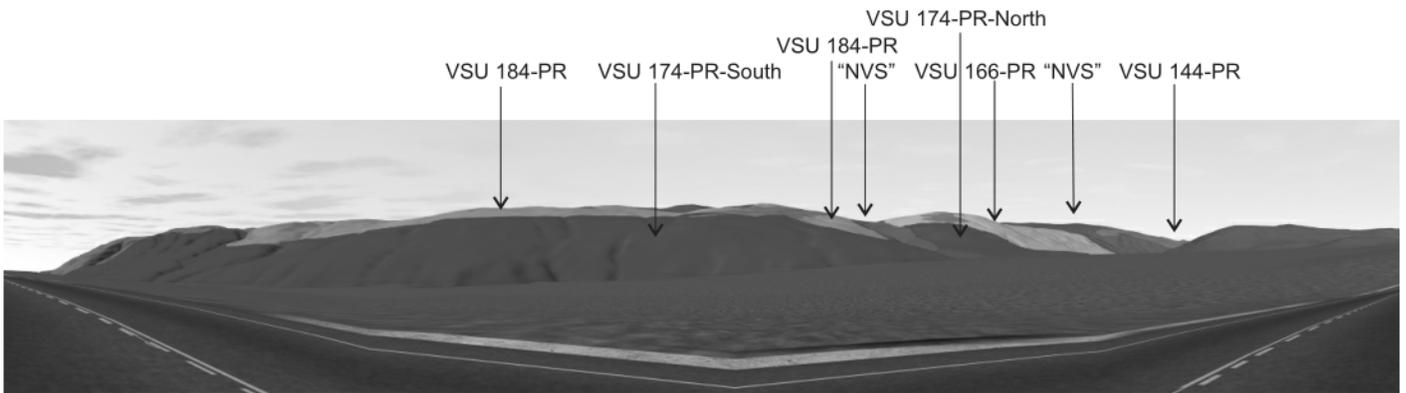
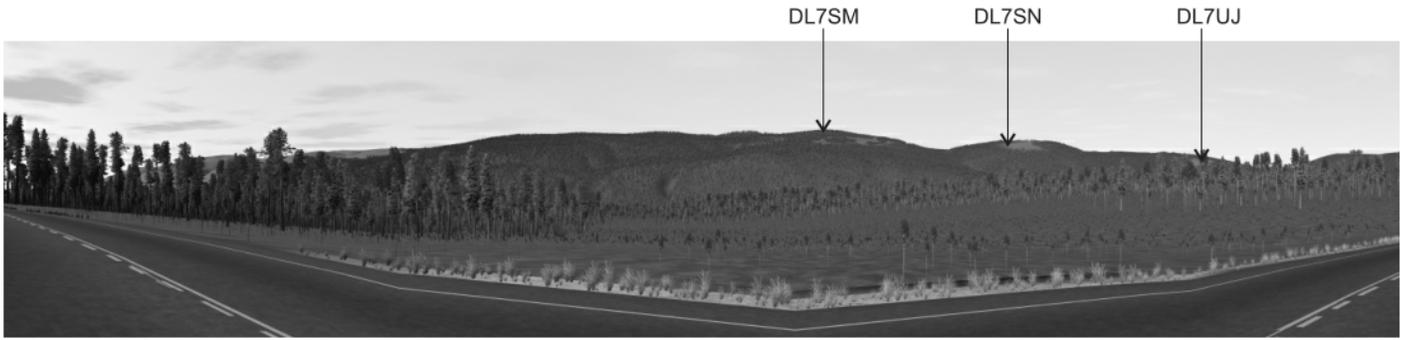
VP 3rd Canyon South (GPS 1796) South of Bridge 1522-1529



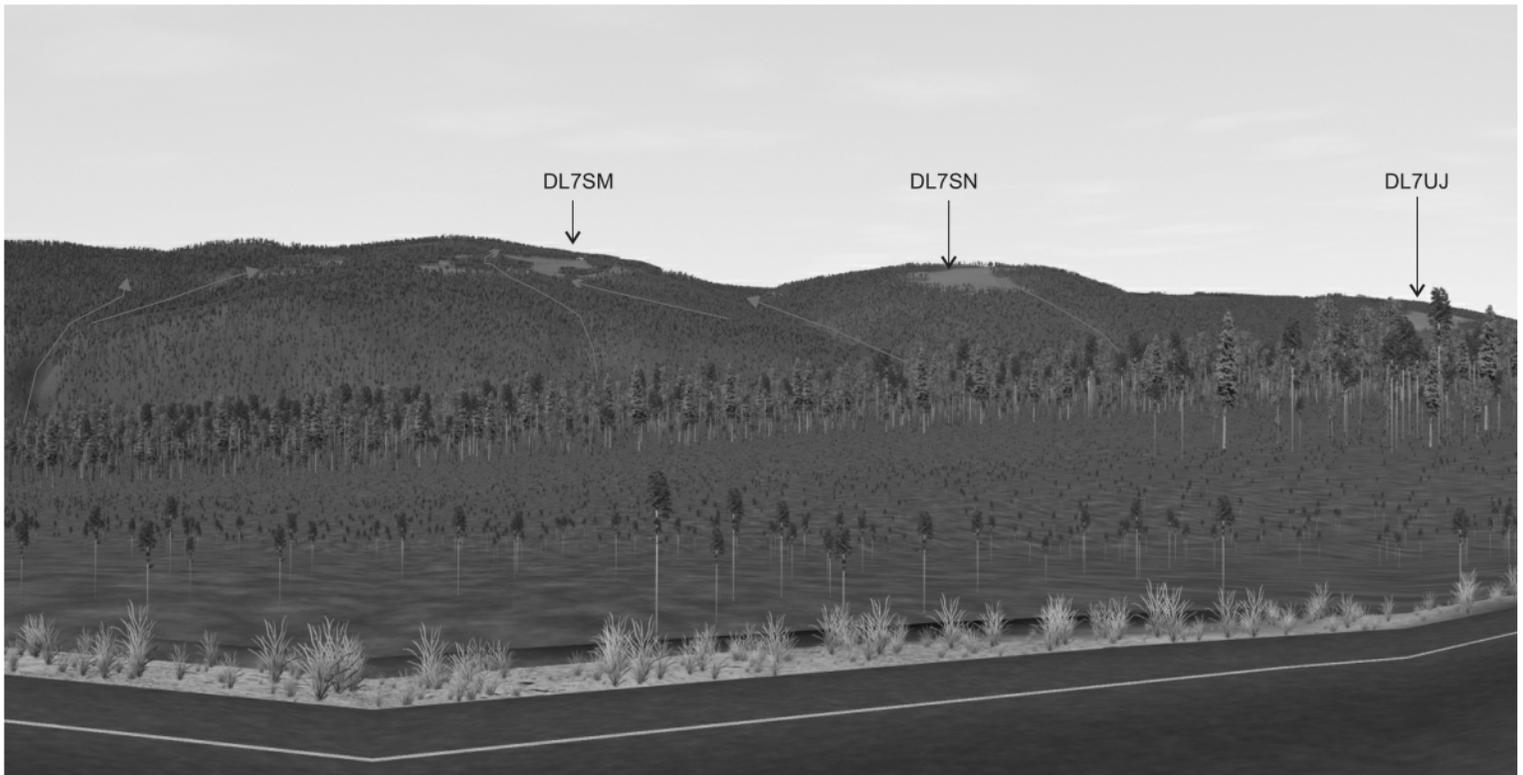
Viewpoint at Third Canyon



David Lake 3rd Canyon Viewpoint Percent Alteration		
Desc_	AREA2	% alt
VSU174S/184	843970.38	0.03%
DL7SM	248.38	
DL7SM	25.46	
DL7SM	17.73	
VSU174N/166/144/NVS	21177.11	6.12%
DL7SN	1026.60	
DL7SN	24.90	
DL7UJ	245.58	

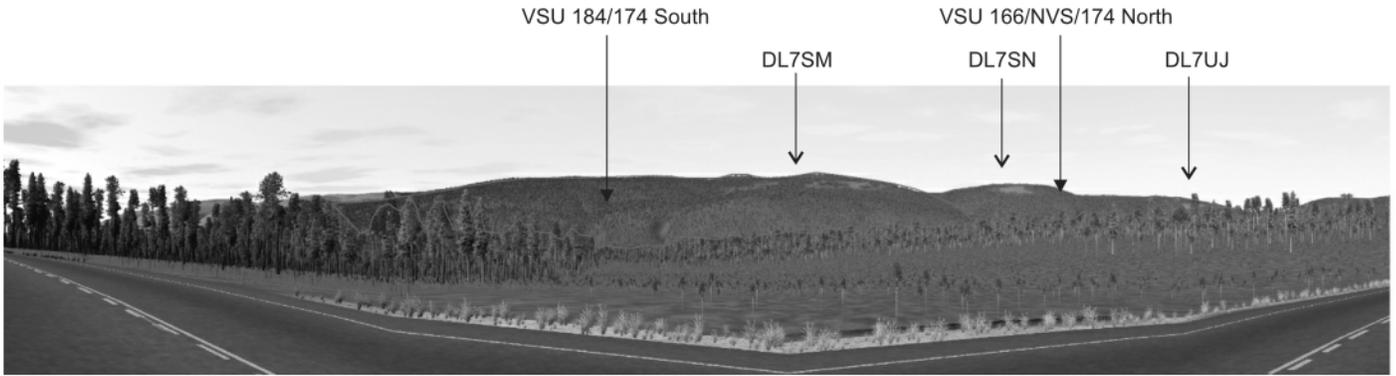


Visual Sensitivity Units with VQOs

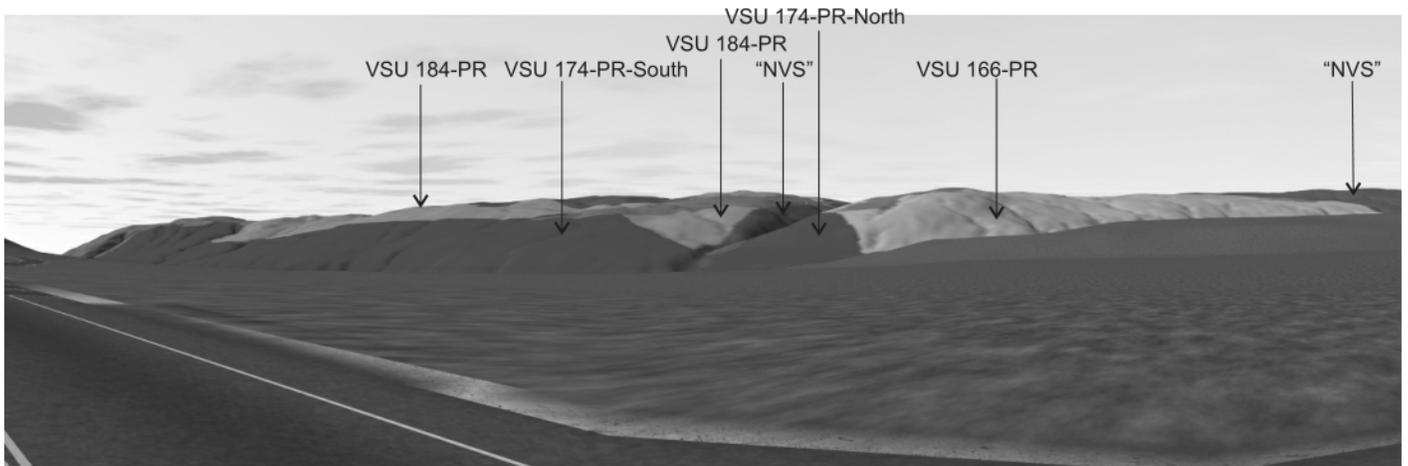
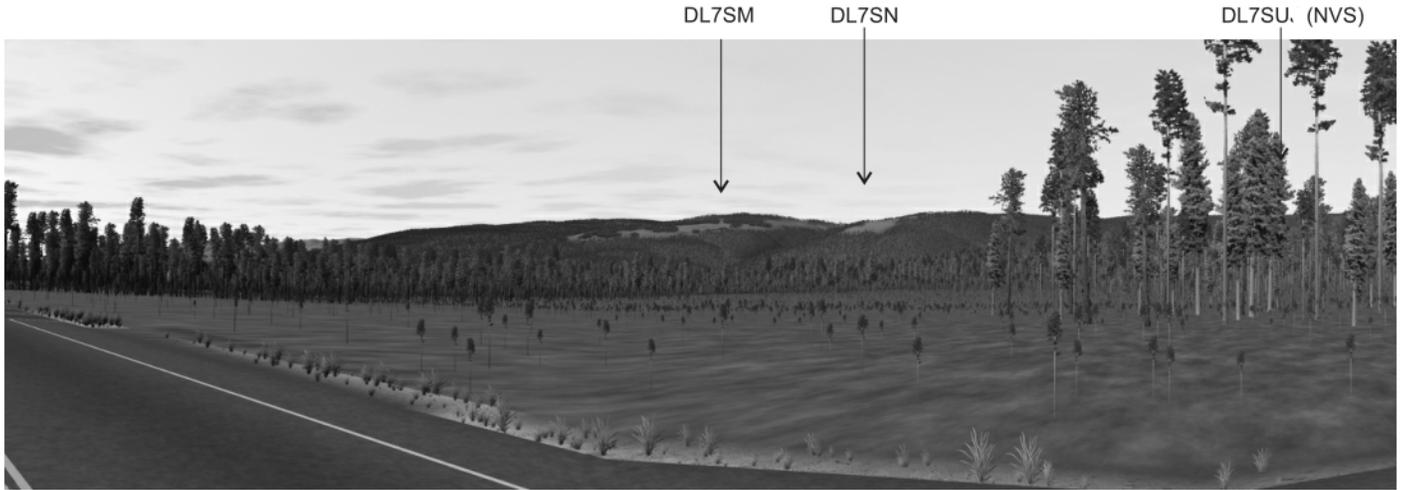


scaled to viewing distance (4.2 km) for comparison with other viewpoints with 45 deg. field of view (closest viewpoint)

- > Visual Force Convexity
- > Visual Force Concavity



Viewpoint 21 Percent Alteration		
Desc_	AREA2	Percent Alt.
184/174S	286806.64	0.90%
DL7SM	141.06	
DL7SM	106.80	
DL7SM	80.33	
DL7SM	17.59	
DL7SM	91.68	
DL7SM	479.82	
DL7SM	74.70	
DL7SM	55.96	
DL7SM	1229.41	
DL7SM	127.07	
DL7SM	171.88	
174N/166/144/NVS	57158.99	5.74%
DL7SN	2383.28	
DL7SN	27.15	
DL7SN	34.43	
DL7UJ	541.42	
DL7UJ	292.54	



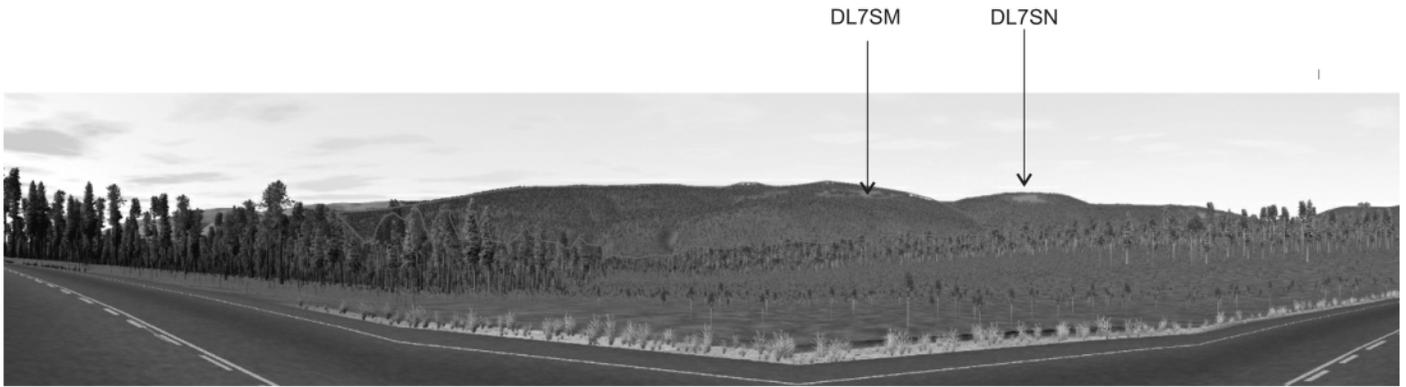
Visual Sensitivity Units with VQOs



scaled to viewing distance (5.0 km) for comparison with other viewpoints with 45 deg. field of view

- Visual Force Convexity
- Visual Force Concavity

Viewpoint 22 Analysis

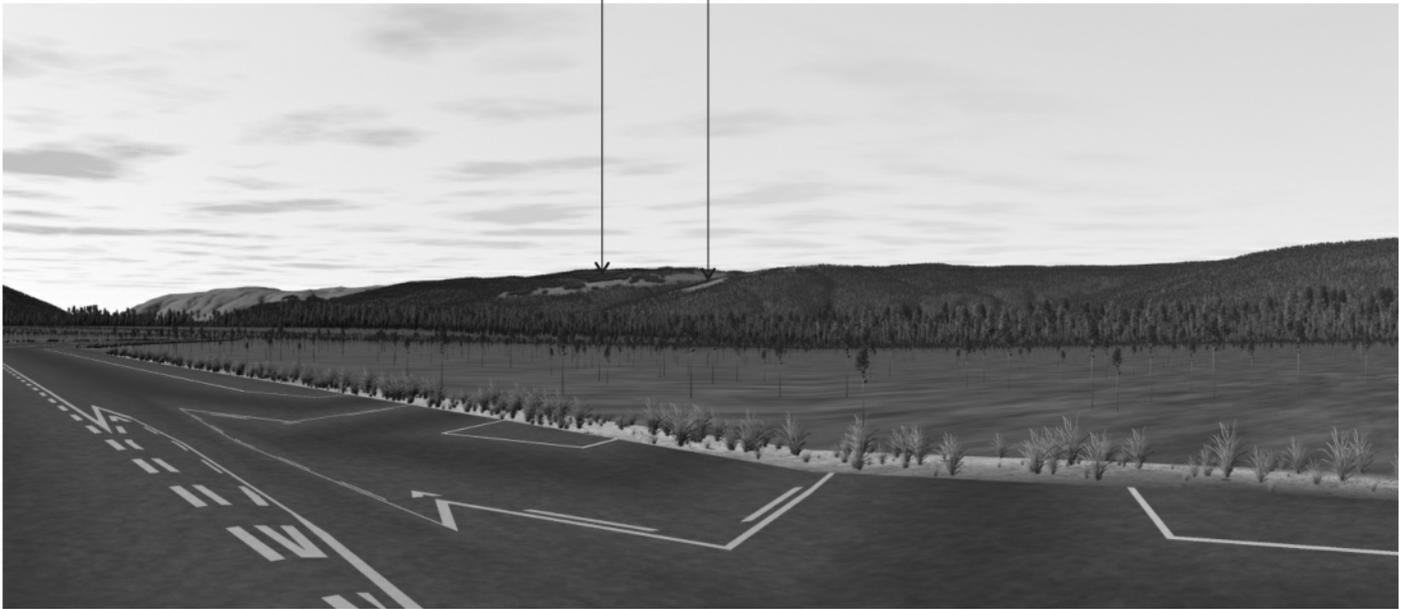


Area of Alteration

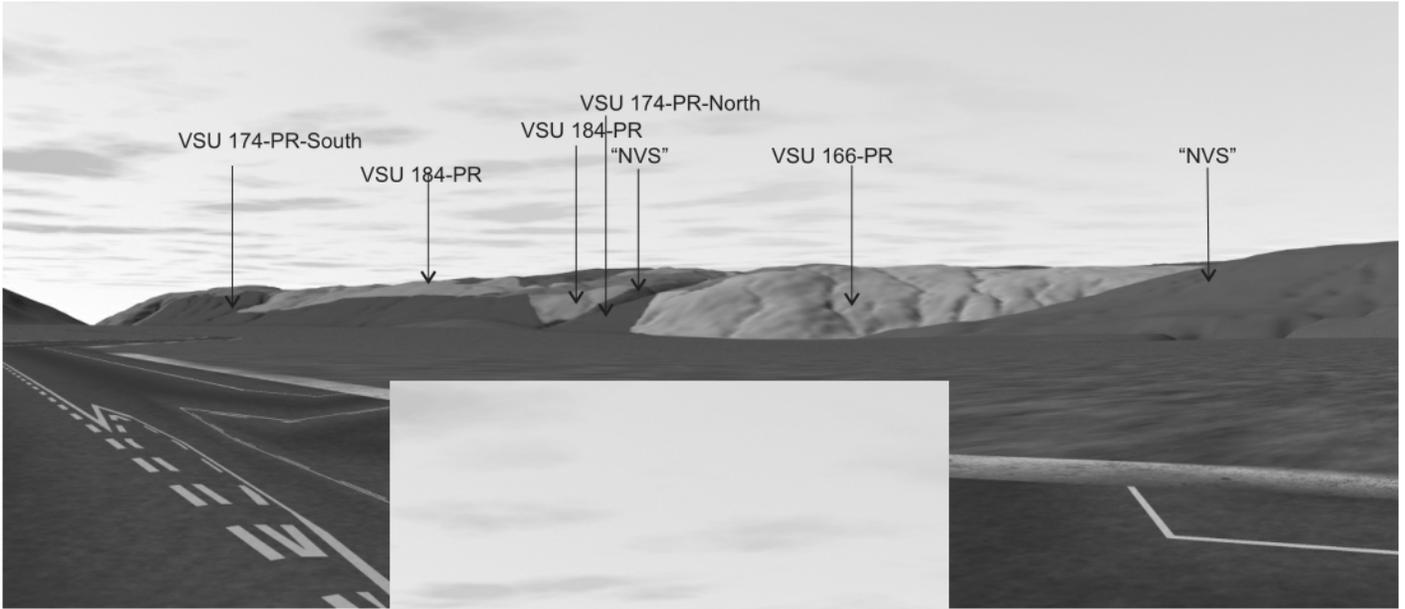
Percent Alteration Viewpoint 22		
DESC_	AREA2	Percent Alteration
174-184	185563.94	6.95%
DL7SM	1276.57	
DL7SM	2988.21	
DL7SM	3778.85	
DL7SM	99.27	
DL7SM	1280.19	
DL7SM	3467.93	
174-166	129644.98	3.57%
DL7SN	3988.45	
DL7SN	184.99	
DL7SN	262.11	
DL7SM	139.79	
DL7SM	13.55	
DL7SM	18.90	
DL7SM	25.52	

Viewpoint 22 Percent Alteration

DL7SM DL7SN



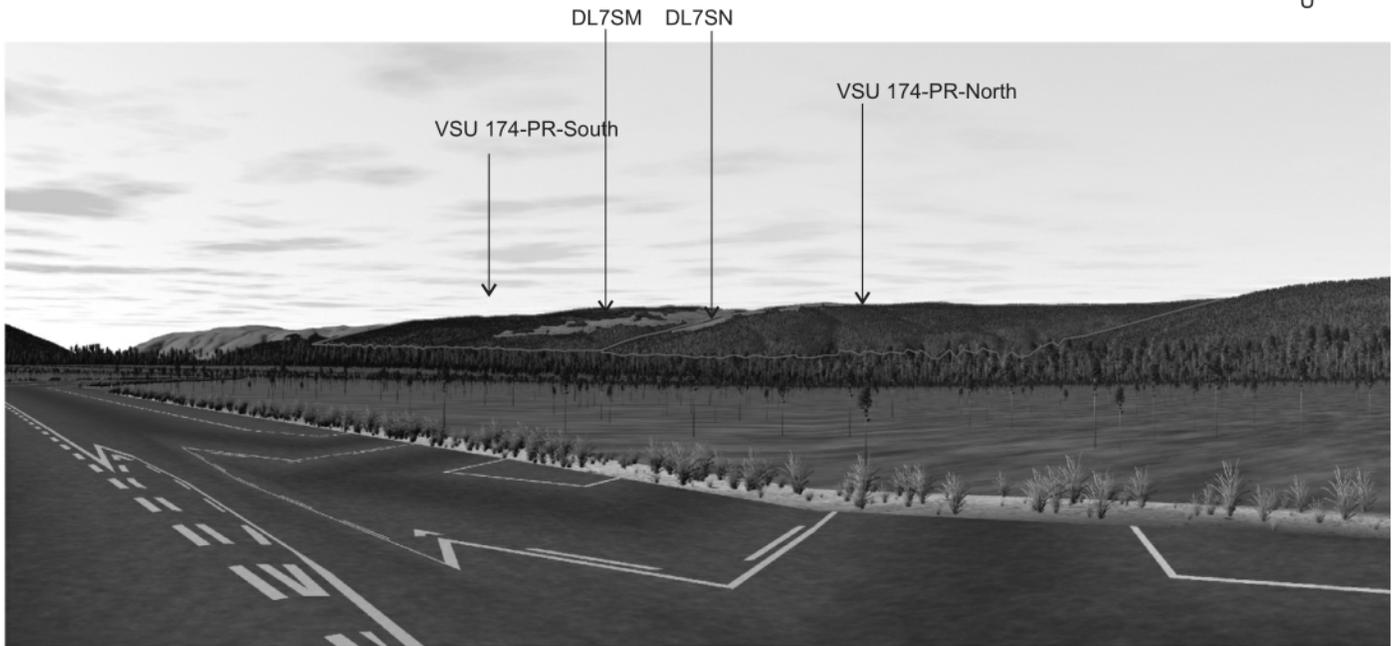
VSU 174-PR-South VSU 184-PR VSU 174-PR-North VSU 184-PR "NVS" VSU 166-PR "NVS"



scaled to viewing distance (8.5 km) for comparison with other viewpoints with 45 deg. field of view (furthest viewpoint)

- Visual Force Convexity
- Visual Force Concavity

Viewpoint 24 Analysis



Viewpoint rendered as test of potential visibility only,
 Minor visibility if any towards the blocks due to intervening screening.
 Do not use for overall percent alteration calculations.

Viewpoint 24 Percent Alteration		
Desc_	AREA2	
174S/184	106513.92	11.19%
DL7SM	457.13	
DL7SM	118.17	
DL7SM	2353.70	
DL7SM	2967.92	
DL7SM	110.05	
DL7SM	5916.23	
174N/166	215593.08	1.20%
DL7SN	1577.20	
DL7SN	177.39	
DL7SN	389.79	
DL7SN	284.50	
DL7SN	154.57	

for demonstration, not for application

for demonstration, not for application



VP 24 (GPS1792) 1442-1455

Webb, Steven RPF FLNR:EX

From: Gunn, Jessica FLNR:EX
Sent: Monday, June 23, 2014 4:05 PM
To: MacKenzie, Sandy A FLNR:EX
Subject: FW: David Lakes FYI

To the best of my knowledge the extra patches were added in weren't they??

Jessica M. Gunn, RPF
Area Forester
BC Timber Sales - Clearwater Field Team
Office - (250)-587-6765
Cell - (250)-674-8491
Fax - (250)-587-6790
Jessica.Gunn@gov.bc.ca

From: Stafford, Jason FLNR:EX
Sent: Monday, June 23, 2014 4:00 PM
To: Gunn, Jessica FLNR:EX
Cc: Kohlberger, Frank FLNR:EX
Subject: RE: David Lakes FYI

Were these additional patches added / alterations made?

Jason Stafford, RPF
A/Woodlands Manager
Kamloops Business Area
BC Timber Sales
(250) 371-6527

From: Gunn, Jessica FLNR:EX
Sent: Monday, June 23, 2014 2:22 PM
To: Stafford, Jason FLNR:EX; Lewis, Tom FLNR:EX
Subject: RE: David Lakes FYI

This is what is in the PCI checklist for 88948,89947 and 90519. Got a call from Rob S. on this, he will put Jason and my name on the response back to the newspaper. Starting to dig for more information on this.

- if Yes, meets VSC / VQO	RDI Carried out visual assessment	Y	Most of the development is required in an altered state of PR. RDI recommends reserves on DL7SM to make it viable if other blocks were acceptable.
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DL7SM is within 89947 which is closing on July 10th.

Jessica M. Gunn, RPF
Area Forester
BC Timber Sales - Clearwater Field Team
Office - (250)-587-6765

Cell - (250)-674-8491
Fax - (250)-587-6790
Jessica.Gunn@gov.bc.ca

From: Stafford, Jason FLNR:EX
Sent: Monday, June 23, 2014 11:00 AM
To: Gunn, Jessica FLNR:EX; Lewis, Tom FLNR:EX
Subject: RE: David Lakes FYI

Thanks for the heads up.

Jason Stafford, RPF
A/Woodlands Manager
Kamloops Business Area
BC Timber Sales
(250) 371-6527

From: Gunn, Jessica FLNR:EX
Sent: Monday, June 23, 2014 8:31 AM
To: Lewis, Tom FLNR:EX; Stafford, Jason FLNR:EX
Subject: David Lakes FYI

So there seems to be some questions popping up around town about David Lakes harvesting that is happening right now. Clusko (they are logging for Canfor and this is where the wood is going to) is up on A89948 logging and the blocks are visible from Whitehorse Bluffs in the park. We have completed VIA in the area and are meeting the retention strategies put out by RDI. Dave Dobi was given a phone call from the local newspaper writer. He is currently putting a response together which will probably say go talk to BCTS but he is looking into it further and will keep me apprised to what his response is before he does respond.

Keeping you in the loop.

Jessica M. Gunn, RPF
Area Forester
BC Timber Sales - Clearwater Field Team
Office - (250)-587-6765
Cell - (250)-674-8491
Fax - (250)-587-6790
Jessica.Gunn@gov.bc.ca

Webb, Steven RPF FLNR:EX

From: Lewis, Tom FLNR:EX
Sent: Thursday, October 23, 2014 11:50 AM
To: Gunn, Jessica FLNR:EX
Subject: FW: Logging in Clearwater
Attachments: 20141022115402528.pdf

Hi Jess; Rob has asked for a point person for this file; I have given him your name.

From: Schweitzer, Rob W FLNR:EX
Sent: Thursday, October 23, 2014 11:19 AM
To: Gunn, Jessica FLNR:EX
Cc: Lewis, Tom FLNR:EX
Subject: FW: Logging in Clearwater

To put some further context behind this issue.....

- In May 2014 I met with Terry and provided him with a full written and verbal update on this matter.
- In June 2014, Terry and I attended the WGAC field tour where I was able to provide him with even more information.
- Terry and his office has been taking a very balanced approach in regards to this matter and seeking truthful information throughout.

If you would like to discuss the background in any more detail, please let me know.

From: Schweitzer, Rob W FLNR:EX
Sent: Thursday, October 23, 2014 11:16 AM
To: Morris, Kirsty L LASS:EX
Cc: Sommer, Rick B FLNR:EX
Subject: RE: Logging in Clearwater

Kirsty,

Below is a brief update in regards to the current and proposed harvesting in the Clearwater valley. If MLA Lake has any questions or requires further information, please do not hesitate to contact me.

- The 1999 document titled, "Guiding Principles for the Management of Land and Resources in the Upper Clearwater Valley" (GP) applies to the area generally east of the river up towards the park boundary. I believe MLA Lake has a copy of the map that outlines the specific area. This agreement does not apply to the area west of the river.
- During the June 28, 2014, field tour MLA Lake witnessed some of the current harvesting on the west side of the river which is located within the BC Timber Sales operating area. It's my understanding they have more timber development along with Canfor on the west side of the river. Jessica Gunn, Area Forester (250-587-6765) with the BC Timber Sales program is the best person to contact in regards to their operations.
- On June 30, 2014, the Forest Practices Board received a complaint from the Wells Gray Action Committee (WGAC) and launched an investigation. It's my understanding the interviews have been conducted and the investigation is ongoing.

- Engagement with the referral group outlined in the GP document remains a challenge. Canfor has sent a letter to the referral group asking them to confirm they still exist and want to be engaged but has not received a response.
- In regards to Cathie Hickson's email, her technical report was provided to Canfor. I have confirmed with Canfor that her information was directly passed on to the professionals conducting terrain stability and hydrology assessments and will be considered in their timber development planning.
- The WGAC made a presentation to the TNRD Wells Gray Services Subcommittee in July.
- As a follow up, I was asked to provide an update in regards to the proposed timber development in the Clearwater valley to the Subcommittee in September. Some of the Clearwater council were in attendance as well. My information was well received and appreciated by those in attendance.
- Last week, Canfor also made a presentation to the Subcommittee.
- Canfor is still working to complete their professional assessments (terrain, hydrology and visual). This is expected to be completed by the end of November and Canfor has indicated they will engage the community through a public process and also attempt to meet with the referral group. I've attached a recent article written by Canfor and published in the North Thompson Times for your information.

From: Morris, Kirsty L [<mailto:Kirsty.Morris@leg.bc.ca>]
Sent: Monday, October 20, 2014 10:51 AM
To: Schweitzer, Rob W FLNR:EX
Subject: Logging in Clearwater
Importance: High

Hi Rob

MLA Lake has requested I contact you to see if you can provide us with an update on what's happening re the logging in the Clearwater valley. MLA Lake has started receiving correspondence again from constituents and he would like to draft a suitable response. I have attached a few of the emails received this weekend to give you a sense of their content.

We look forward to hearing from you.

Regards

Kirsty

Kirsty L Morris | Constituency Assistant

***Terry Lake, MLA Kamloops - North Thompson
Minister of Health***

Email: kirsty.morris@leg.bc.ca
Phone #: [250-554-5413](tel:250-554-5413) Fax #: [250-554-5417](tel:250-554-5417)
Toll Free #: [1-888-299-0805](tel:1-888-299-0805)
Website: www.terrylakemla.bc.ca



Webb, Steven RPF FLNR:EX

From: Kohlberger, Frank FLNR:EX
Sent: Tuesday, December 17, 2013 8:57 AM
To: 'Ken Fairhurst'
Subject: FW: Visuals - David Lake
Attachments: DL7SM_Visuals_Shapefiles.zipped

Hi Ken,

Attached are revised shapefiles for block DL7SM at David Lake. To open the file just have to first rename it to .zip.

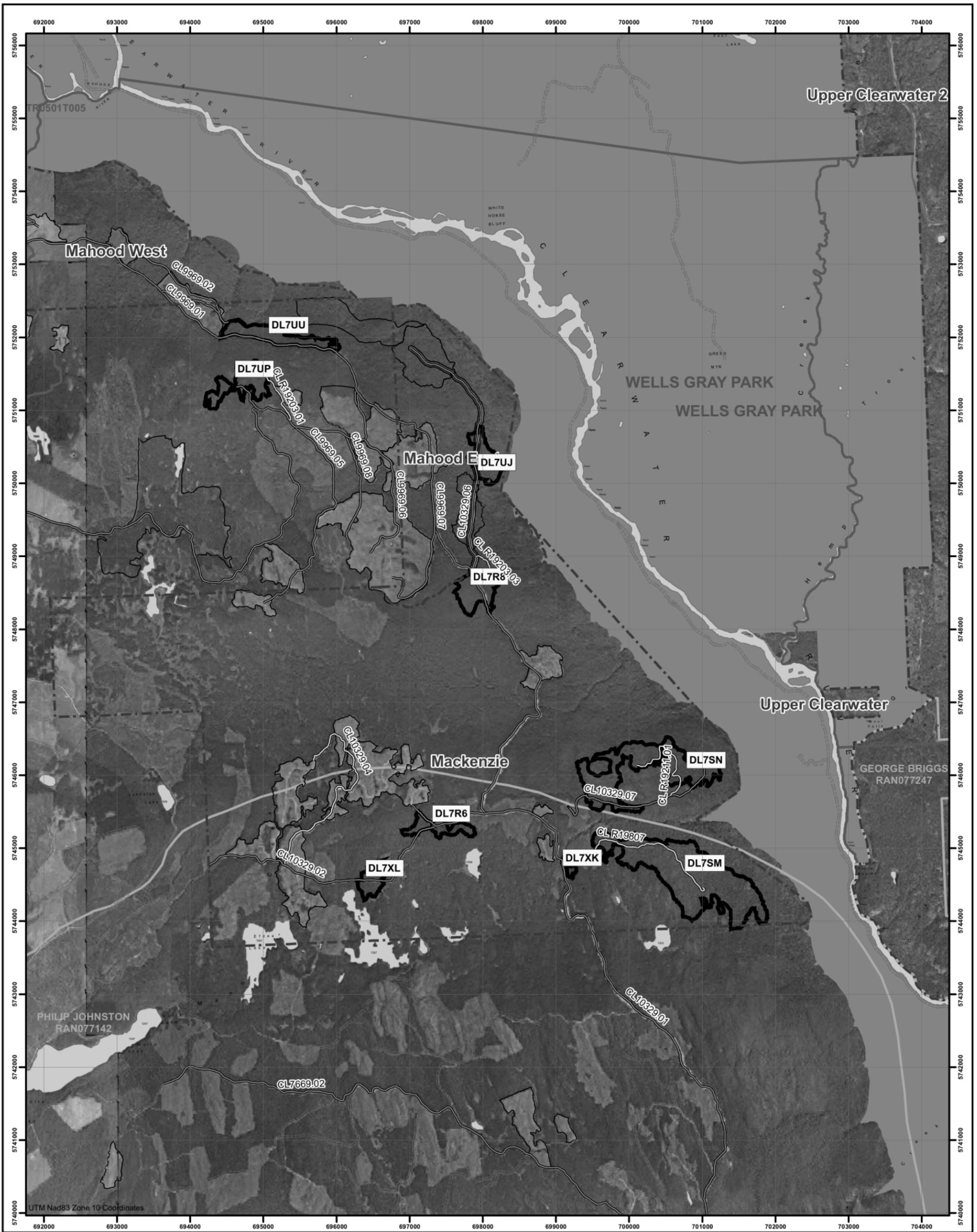
You did a visual assessment of this block previously however the folks in the field have proposed changes to the WTRA and I believe maybe the boundary as well. Could you do an assessment using the new block information? If it doesn't meet the required VQO, then perhaps try and see if it can be modified somewhat closely to what is there so as to meet the VQO?

If you have any questions please let me know.

Thanks.

Frank L. Kohlberger, RPF, BScF, Dipl For Tech,
Resource Planner
Kamloops Business Area
Ministry of Forests Lands and Natural Resource Operations

Ph: (250) 371-6557 FAX: (250) 371-6565
[Mailto:Frank.Kohlberger@gov.bc.ca](mailto:Frank.Kohlberger@gov.bc.ca)

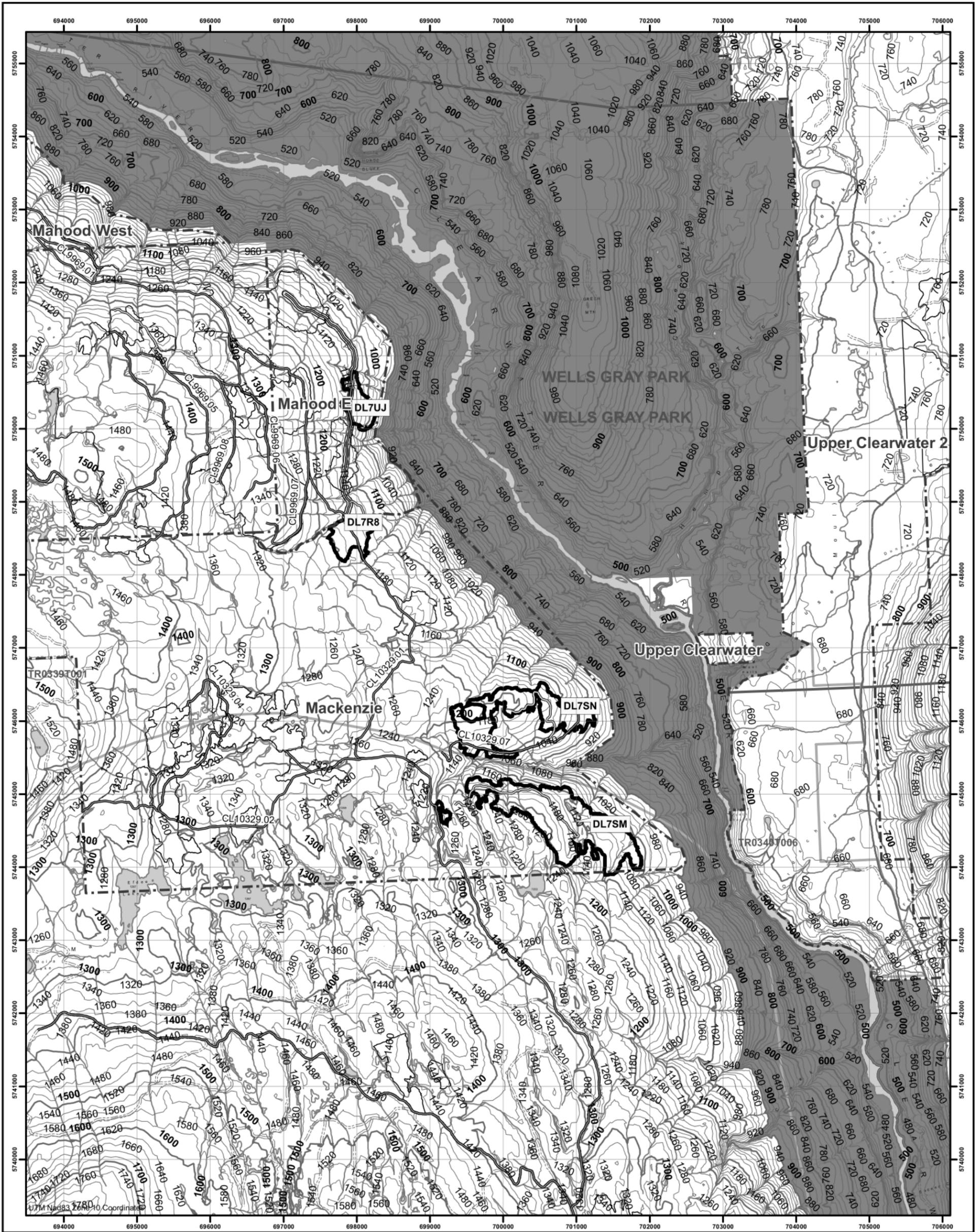


BC Timber Sales		Licence	Block	UBI	Latitude	Longitude	Opening	Area (ha)
Kamloops Business Area Headwaters Forest District David lake		A90519	DL7R6	BE7R6	514925	1200808		14.33
		A90519	DL7R8	BE7R8	515109	1200734		22.85
		A89947	DL7SM	BE7SM	514859	1200511		124.01
		A89948	DL7SN	BE7SN	514946	1200540		76.9
		A89948	DL7UJ	BE7UJ	515207	1200725		20.05
		A90519	DL7UP	BE7UP	515244	1201016		24.3
Mackenzie Referral Map		A90519	DL7UU	BE7UU	514925	1200951		24.89
		A89948	DL7XK	BE7XK	514905	1200636		24.8
		A89948	DL7XL	BE7XL	514905	1200857		11.87

Access Instructions:	
From Headwaters District Office take Camp 2 Rd for approximately 2km. Turn right onto road 1 and continue up to 19.1km. Turn right onto Mackenzie FSR and follow it up to 19.1km. Turn right onto Mackenzie FSR, continue up to 16.5km to block DL7UU.	
From Headwaters District Office take Camp 2 Rd for approximately 2km. Turn right onto road 1 and continue up to 19.1km. Turn right onto Mackenzie FSR, continue up to 16.5km to block DL7UU.	
From Headwaters District Office take Camp 2 Rd for approximately 2km. Turn right onto road 1 and continue up to 19.1km. Turn right onto Mackenzie FSR, continue up to 16.5km to block DL7UU.	

Legend	
Block of Interest (GENUS)	514905
Block Boundary (GENUS)	514905
Streams (LRDW)	1200857
Lakes (LRDW)	1200857
Vegetation Cover (LRDW)	
Wetlands (LRDW)	
Unknown Road	
Proposed Road	
Deactivated Road	
Existing Road	
Roads (GENUS)	
Roads (TRIM)	
FSR	PAVED
RP	GRAVEL
OTHER	
BCTS Operating Area	
Range Tenure Boundary	
Trapline Boundary	
Guide Outfitter Boundary	
Private Land	
OGMA	
Cable	
Transmission Line	
Pipeline	

Date: 7/9/2014	
Scale: 1:50,000	
Projection: BC Environment Albers Datum: NAD 1983	
Created By: KOHLBERGER, FRANK	



BC Timber Sales

Kamloops Business Area

Headwaters Forest District
Thompson Rivers Natural Resource District

Mackenzie Referral Map

Licence	Block	UBI	Latitude	Longitude	Opening	Area (ha)
A90519	DL7R8	BE7R8	515109	1200734		22.85
A89947	DL7SM	BE7SM	514859	1200511		124.01
A89948	DL7SN	BE7SN	514946	1200540		76.9
A89948	DL7UJ	BE7UJ	515207	1200725		20.05
A89948	DL7XK	BE7XK	514905	1200636		2.48

Date: 8/20/2014

Access Instructions:

From Headwaters District Office take Camp 2 Rd. Turn right onto road 1 and continue up to 19.1 km. Turn right onto Mackenzie FSR, continue up to 12 km to DL7R8.
From Headwaters District Office take Camp 2 Rd. Turn right onto road 1 and continue up to 19.1 km. Turn right onto Mackenzie FSR, continue up to 6.5 km and turn right on road 1. Drive travel on it to the end, about 1 km to the east onto road 1 and continue up to 12 km. Turn right onto CL10329.07 for 1.5 km follow the Mackenzie FSR to 8 km and turn right onto rd CL10329.07 to block DL7SN Mackenzie FSR to approximately 7 km to block DL7XK

Legend

- Block of Interest (GENUS)
- Block Boundary (GENUS)
- Streams (LRDW)
- Lakes (LRDW)
- Vegetation Cover (LRDW)
- Wetlands (LRDW)
- Unknown Road
- Proposed Road
- Deactivated Road
- Existing Road
- Roads (GENUS)
- Roads (TRIM)
- BCTS Operating Area
- Range Tenure Boundary
- Trapline Boundary
- Guide Outfitter Boundary
- Private Land
- OGMA
- Cable
- Transmission Line
- Pipeline



Scale: 1:50,000

Projection: BC Environment Albers
Datum: NAD 1983

Created By: KOHLBERGER, FRANK

Webb, Steven RPF FLNR:EX

From: Webb, Steven RPF FLNR:EX
Sent: Monday, December 7, 2015 5:35 PM
To: Gunn, Jessica FLNR:EX
Subject: RE: 89947-Upper Clearwater

Spoke with s.22 today. Went about as well as you might have expected. Started off well, however deteriorated quickly when I stated that road construction has likely already started and that harvesting on A89947 would start in January. He was shocked that BCTS would continue to make a bad situation worse. Told him this was a done deal given the license was awarded two years ago, but that I was giving him a heads up as a matter of courtesy – you can imagine where it went from there. Asked if I could send him any information about block location, visuals, etc, and he told me that it would make no difference to the outcome – the trees would still be felled.

Once the dust settled, he appreciated my call, even though he stated that I could not understand how important the visuals were to those that lived in the valley, s.22
s.22

He stated that they (he) wanted to continue the process with Canfor before meeting with us. So I expect it will be well into the new year before we hear back from him again about moving forward. I updated Rob Schweitzer on this call.
s.22

Steve

From: Gunn, Jessica FLNR:EX
Sent: Friday, December 4, 2015 3:50 PM
To: Webb, Steven RPF FLNR:EX
Subject: 89947-Upper Clearwater

Road building to be starting this week as stated before. Block to start in the new year as I just spoke with Rowena on.

Have a good weekend

Jessica M. Gunn, RPF
Area Forester
BC Timber Sales - Clearwater Field Team
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Cell - (250)-674-8491
Fax - (250)-587-6790
Jessica.Gunn@gov.bc.ca

Webb, Steven RPF FLNR:EX

From: Webb, Steven RPF FLNR:EX
Sent: Friday, December 4, 2015 10:41 AM
To: Gunn, Jessica FLNR:EX
Subject: RE: As Requested: Timber Availability maps Upper Clearwater

Thanks. You available for a call?

Steve

From: Gunn, Jessica FLNR:EX
Sent: Friday, December 4, 2015 10:18 AM
To: Webb, Steven RPF FLNR:EX
Subject: FYI: As Requested: Timber Availability maps Upper Clearwater

Timber availability completed for the Upper Clearwater.
The 5k map shows nothing for future volume.
The 30k map shows the following

Upper Clearwater 2 NOT Mature Volume Summary		
Species	Volume (m3)	Area (ha)
Pine	166	1
Pine (dead)	1	
Fir	1,165	5
Hemlock	0	0
Larch	0	0
Cedar	267	2
Spruce	1,235	5
Balsam	0	0
Deciduous	2,359	13
Other	0	0
Totals	5,193	26

Upper Clearwater 2 Mature Volume Summary		
Species	Volume (m3)	Area (ha)
Pine	8,078	33
Pine (dead)	2,305	
Fir	45,666	153
Hemlock	0	0
Larch	0	0
Cedar	519	4
Spruce	28,599	96
Balsam	54	0
Deciduous	67,475	288
Other	0	0
Totals	152,695	574

Some potential for Fir and Pl. I'll have a better look into this in the new year to see if we want to send someone in to do some recce work.

Cheers,

Jessica M. Gunn, RPF
Area Forester
BC Timber Sales - Clearwater Field Team
Office - (250)-587-6765
Cell - (250)-674-8491
Fax - (250)-587-6790
Jessica.Gunn@gov.bc.ca

From: Hay, Devona L FLNR:EX
Sent: Wednesday, December 2, 2015 3:00 PM
To: Gunn, Jessica FLNR:EX
Cc: Howard, Stephanie Lynne FLNR:EX
Subject: As Requested: Timber Availability maps Upper Clearwater

Hi Jessica,

The Upper Clearwater maps have been completed.

They are located here:

s.17

UpperClearwater_TimberAvailability_Clearwater_Portrait_5K.pdf
UpperClearwater2_TimberAvailability_Clearwater_Portrait_30K.pdf

Thanks
Devona

Devona Hay, RFT
GIS Analyst / TKA Genus Administrator
BCTS - Kamloops TSO
1265 Dalhousie Drive
Kamloops, BC V2C 5Z5
Telephone: (250) 371-6526
Fax: (250) 371-6565
Email: Devona.Hay@gov.bc.ca
'Life isn't about how to survive the storm,
but how to dance in the rain.'

Webb, Steven RPF FLNR:EX

From: Kohlberger, Frank FLNR:EX
Sent: Monday, October 20, 2014 11:10 AM
To: Stafford, Jason FLNR:EX; 'Dobi, Dave'
Cc: Lewis, Tom FLNR:EX; Boskovic, Zoran O FLNR:EX; Gunn, Jessica FLNR:EX
Subject: RE: WGAC

Thanks Jason for bringing me into the loop. It is important that both ourselves in BCTS and our clients maintain awareness that, when working on these types of issues, it is critical for the Planners to be fully involved - it is our job; Including Planners in correspondence and in decision processes with respect to stakeholders is paramount.

As some of you know, I spent several hours with Erik in the Summer going over our proposals in the area, and discussing the needs of the two parties. Last week he sent me an email asking if BCTS was logging across from Grouse Creek and the Canyonlands. I responded with a reminder map of our developments in that area and reiterated our activities there.

Thanks.

Frank L. Kohlberger, RPF, BScF, Dipl For Tech, Resource Planner Kamloops Business Area Ministry of Forests Lands and Natural Resource Operations

Ph: (250) 371-6557 FAX: (250) 371-6565 [Mailto:Frank.Kohlberger@gov.bc.ca](mailto:Frank.Kohlberger@gov.bc.ca)

-----Original Message-----

From: Stafford, Jason FLNR:EX
Sent: Monday, October 20, 2014 9:30 AM
To: 'Dobi, Dave'; Gunn, Jessica FLNR:EX
Cc: Lewis, Tom FLNR:EX; Boskovic, Zoran O FLNR:EX; Kohlberger, Frank FLNR:EX
Subject: RE: WGAC

Thanks for the note.

We did advise Eric back in July that this was occurring. Thanks for the article the other day as well. Talked to Rob about your thinking around an open house. BCTS would be willing to participate if Canfor desires. If not we may end up doing something at a later date. We only have one block planned in the David Lake area other than what has already been sold.

Thanks
Jason

-----Original Message-----

From: Dobi, Dave [<mailto:Dave.Dobi@canfor.com>]
Sent: Monday, October 20, 2014 9:27 AM
To: Stafford, Jason FLNR:EX; Gunn, Jessica FLNR:EX
Subject: FW: WGAC

Jason/Jessica - this is FYI.

-----Original Message-----

From: Dobi, Dave

Sent: Monday, October 20, 2014 9:13 AM

To: Erik

Subject: RE: WGAC

Hi Erik;

Yes, a Canfor contractor is logging a BC Timber Sale in the David Lake operating area on the West side of the Clearwater River.

D.

-----Original Message-----

From: Erik [<mailto:ThinkWellsGray@gmx.ca>]

Sent: Saturday, October 18, 2014 5:33 PM

To: Dobi, Dave

Subject: WGAC

Hello Dave,

Can you please tell me if Canfor is actively logging or building roads on the West side of the Clearwater River at this time? Where?

Thank you very much for your assistance.

Regards,

Erik Milton

Wells Gray Action Committee

Webb, Steven RPF FLNR:EX

From: Hay, Devona L FLNR:EX
Sent: Wednesday, June 27, 2012 2:53 PM
To: 'Ken Fairhurst'
Cc: Fenton, Clint FLNR:EX; MacKenzie, Sandy A FLNR:EX; Gunn, Jessica FLNR:EX; Kohlberger, Frank FLNR:EX
Subject: RE: David Lake/Blue river/Avola

Hi Ken,

My apologies on the delay in getting this to you. We have been experiencing some issues with the results layer which caused me to find a workaround for that layer.

I have placed a Layer package (RDI_David Lake.lpk) on the ftp site (s.17) for your reference.

Please remember to download as soon as possible so that it doesn't cleaned up from the ftp site.

I have provided the Instructions again on using the "LPK" file:
s.17

s.22

Thanks
Devona

Devona Hay, RFT

GIS Analyst / TKA Genus Administrator
BCTS - Kamloops TSO
1265 Dalhousie Drive
Kamloops, BC V2C 5Z5
Telephone: (250) 371-6526
Fax: (250) 371-6565
Email: Devona.Hay@gov.bc.ca

'Life isn't about how to survive the storm,
but how to dance in the rain.'

From: Ken Fairhurst [<mailto:ken.fairhurst@rdi3d.com>]
Sent: Friday, June 15, 2012 12:57 PM
To: Hay, Devona L FLNR:EX
Subject: Re: David Lake/Blue river/Avola

I am guessing that the VQO polygons provided previously will cover this area. If not, I will require them. If possible, Devona, could you provide me the procedure for identifying the correct VSC/VQO? I know it is in my old e-mails from you if you don't have it handy.

Thanks,

Ken Fairhurst
RDI Resource Design Inc
#116 - 845 Denman Street

Vancouver BC Canada
www.rdi3d.com
V6G 2L7
604-689-3195

----- Original Message -----

From: Hay, Devona L FLNR:EX
To: ken.fairhurst@rdi3d.com
Cc: MacKenzie, Sandy A FLNR:EX ; Fenton, Clint FLNR:EX
Sent: Thursday, June 14, 2012 10:49 AM
Subject: David Lake/Blue river/Avola

Hi Ken,

Just confirming what you are requesting for the visuals, so I don't miss anything:

- 1) DEM data
- 2) genus blocks and Roads, WTRA data
- 3) ften blocks and roads, results polygons
- 4) trim streams, lakes
- 5) contours
- 6) Anything Else?

Devona

Devona Hay, RFT

GIS Analyst / TKA Genus Administrator
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Kamloops, BC V2C 5Z5
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but how to dance in the rain.'