



**SITE PLAN
CARIBOO-CHILCOTIN
BC TIMBER SALES**

Report Date 2017/01/12

TENURE IDENTIFICATION

ORIGINAL

LICENCE #	CP	BLOCK	UBI	OPENING NUMBER	FDU	LOCATION	LATITUDE / LONGITUDE
A56030	-	1	BL70R	093H012-84	FDU 1	2100 road	53 07 02 / 121 41 36

AREA UNDER THE PLAN

GROSS AREA (TAUP)	PAS	NP	WTRA / WTP	RESERVES	OTHER	NAR
22.0	0.5	0.0	4.2	0.0	0.0	17.2

ADDITIONAL COMMENTS

DEFINITIONS (ADD DEFINITIONS AS REQUIRED)
The treaments prescribed in this site plan are consistent with the Quesnel -BC Timber Sales 2012 Forest Stewardship Plan.

SOIL DISTURBANCE

SU	Max. Allowable Soil Disturbance (%)	Max. Amount TAS May Exceed MASD Prior To Rehab (%)	Max. Allowable Soil Disturbance For Roadside Work Areas (%)	Maximum Permanent Access Structures (%)
1	10.0	10.0	25.0	7.0
SU	CRITICAL SITE CONDITIONS THAT AFFECT THE TIMING OF OPERATIONS, AND HOW THEY AFFECT THE TIMING			
1	This SU has a moderate compaction, surface erosion and soil disturbance hazard ratings. Harvesting is to occur on dry or on frozen soils or with a compressible snowpack of greater than 30cm.			

RESULTS AND STRATEGIES

Biodiversity Objectives	
Result or Strategy Description	4.4.1 OSBG for Wildlife and Biodiversity Landscape Level
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The objectives for Landscape Level Biodiversity of the FSP are achieved through Results and Strategies specified in other sections of the FSP.
Result or Strategy Description	4.4.2 Seral Stage Targets
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is consistent with the most recent Seral Stage Analysis dated July 21, 2013 for the SBSwk1 BEC subzone in the Jack of Clubs Landscape Unit as specified in the FSP. There are 1,269 hectares of mature and old available. There is still a large surplus of Mature Plus Old in these units so there will be no drawdown.
Result or Strategy Description	4.5.1 LUOR & OSBG for Wildlife and Biodiversity - Stand Level
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is within the SBSwk1 BEC subzone and the Jack of Clubs Landscape Unit . The WTR target is 7 % for the TSL. The proposed block is consistent with WTR targets identified in the FSP. 7 % of the gross TSL area has been retained as WTP. No harvesting of existing WTPs has been proposed.
Result or Strategy Description	5.1 Invasive Plants (Measure)
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	To mitigate introduction or spread of invasive weeds disturbed contiguous areas such as ditch-lines, cut-slopes, fills and waterbars on permanently deactivated roads covered by this site plan and not subject to reforestation activities will be broadcast seeded within one year of disturbance. This block is located with High and Very High Grizzly bear habitat capability unit therefore the forage mixture used for seeding must meet or exceed Common Number 1 Forage Mixture specification but must not include Clover.
Result or Strategy Description	4.4.3 Permanent-static and Permanent-rotating OGMA's
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located adjacent to a Permanent OGMA and is consistent with the FSP result and strategies.
Result or Strategy Description	4.4.4 Transition OGMA's
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located adjacent to a Transitional OGMA and is consistent with the FSP result and strategies.

Result or Strategy Description	4.4.5 LUOR Reporting OGMA changes
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of an OGMA and no resulting changes will be reported as per the requirements of the FSP and the CCLUP LUOR Obj #11.
Result or Strategy Description	4.4.6 Cariboo-Chilcotin Grassland Benchmark Area
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of the grassland benchmark areas, as identified in the FSP and associated maps.
Result or Strategy Description	4.4.7 Quesnel ERDZ
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of the Quesnel ERDZ, as identified in the FSP and associated maps.
Result or Strategy Description	4.4.8 FDU 2 Sensitive habitats
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This site plan does not propose harvesting within the four sensitive sites series within the SBSmh BEC zones that are identified in the FSP and occur in FDU 2.
Result or Strategy Description	4.4.9 Forest Corridors
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This site plan does not propose harvesting within a forest corridor within FDU 2 as identified in the FSP and associated maps.
Cultural Heritage Resources	
Result or Strategy Description	4.10.1- OSBG for Cultural Heritage Resources
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>Where a protocol agreement with First Nation(s) has been developed in accordance with their traditional use areas, the protocol agreement(s) are followed for the area covered by this site plan. Any information received is considered.</p> <p>Where protocol agreements are not in place, First Nations are notified of the proposed location of the block within their traditional interest areas and information regarding cultural heritage resources is requested. Any information received is considered.</p>
Fisheries Objectives	
Result or Strategy Description	4.6.5 Critical Fish Habitat
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of critical fish habitat areas as identified in the FSP and associated maps.
Result or Strategy Description	4.6.6 Salmon Watersheds FDU 1
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of the portions of the Baezaeko, Blackwater, Cariboo, Bowron, Cottonwood, Quesnel and Nazko rivers watersheds that fall within the FDU 1, as identified in the FSP and associated maps.
Result or Strategy Description	4.6.7 Salmon Watersheds FDU 2
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of the portions of the Blackwater and Cottonwood River watersheds that fall within the FDU2, as identified in the FSP and associated maps.
Forage and Associated Plant Comm	
Result or Strategy Description	4.9 Range
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed activities covered under this site plan are not located within a range tenure.
Result or Strategy Description	5.2 Natural Range Barriers (Measure)
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed activities under this site plan are not located within a range tenure area.
Recreation Resources	
Result or Strategy Description	4.7.5 Wildcraft
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>The proposed block is located in the Quesnel Highlands Special Resource Development Zone.</p> <p>The road is being developed as a secondary road but portions of the road (to roughly the center of the block) may be changed into primary road in order to allow silviculture access. Roads covered by this SP that are changed to Primary Roads will remained open:</p> <p>a) until the cutblock(s) accessed by those Primary roads are considered satisfactorily restocked, or</p> <p>b) if the roads are required for primary forest activities</p>

Result or Strategy Description	4.7.6 Access
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located in the Quesnel Highlands Special Resource Development Zone. Secondary roads constructed to access this SP will be deactivated within two years of completion of timber harvesting. Primary Roads covered by this SP will not be deactivated if the roads are required for continued primary forest activities.
Result or Strategy Description	4.7.2 Back Country
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of Backcountry polygons as identified in the FSP and associated maps.
Result or Strategy Description	4.7.1 Recreation Sites and Trails
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is not located within or adjacent to Recreation Sites or Trails, as identified in the FSP and associated maps.
Result or Strategy Description	4.7.3 Buffered Trails
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is not located within 50 meters of a buffered trail as identified in the FSP and associated maps.
Result or Strategy Description	4.7.4 Alexander Mackenzie Heritage Trail
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is not within 100 meters of the Alexander MacKenzie Heritage Trail.
Riparian Management	
Result or Strategy Description	4.6.1A Riparian Reserve Zones retention for all Riparian Classes
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	All riparian features adjacent to the proposed block have been assessed, classified and are indicated on the Site Plan map. The proposed harvesting and block roads are located outside of riparian reserve zones of streams, wetlands and lakes.
Result or Strategy Description	4.6.1B Riparian Management Zones retention for all Riparian Classes
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	Harvest is proposed within the riparian management zone of the riparian features adjacent to this block. The minimum basal area % of the RMZ has been reserved as specified in 4.6.1 Table 1 (Riparian Management Zone Retention) of the FSP.
Result or Strategy Description	4.6.1C RMZ Machine Free Zone for S4, S5, S6, W3, W4, L3, and L4
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	There are no classified streams or wetlands within the harvest area.
Result or Strategy Description	4.6.1D Riparian Management Zone retention for S4
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	There are no S4 streams within the the harvest area.
Result or Strategy Description	4.6.2 Lakeshore Management
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The harvesting and block roads proposed in this SP are not within a lakeshore management zones of a classified lake as identified in the FSP and associated maps. No primary roads covered by this site plan are within 2000 meters of a refugia or wilderness fisheries lake.
Soil Objectives	
Result or Strategy Description	4.1 Soils
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The Site Plan is consistent with Section 35 and 36 of the FPPR. Section 35 and 36 of the FPPR apply to the TSL holder.
Timber Objectives	
Result or Strategy Description	4.2 Timber
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The objectives of section 4.2 (Timber) of the FSP are achieved through Results and Strategies specified in other sections of the FSP.

Visual Objectives	
Result or Strategy Description	4.8.1 Scenic Areas
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of Scenic Areas as identified in the FSP and associated maps.
Result or Strategy Description	4.8.2 High Elevation View Points FDU 1
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of areas viewed from High Elevation Viewpoints as identified in the FSP and associated maps.
Water Management Objectives	
Result or Strategy Description	4.6.3 Watershed Hydrology FDU 1
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of the Cariboo and Cottonwood River watersheds as identified in the FSP and associated maps.
Result or Strategy Description	4.6.4 Watershed Hydrology FDU2
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of FDU2 and the Cottonwood River watersheds as identified in the FSP and associated maps.
Result or Strategy Description	4.6.8 Water in Community Watersheds
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of designated community watersheds, as identified in the FSP and associated maps.
Wildlife Objectives	
Result or Strategy Description	4.3.1 OSBG Wildlife
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The objectives of section 4.3.1 (Wildlife) of the FSP addressing FPPR section 7 are achieved through Results and Strategies specified in other sections of the FSP.
Result or Strategy Description	4.3.2.2 FDU 1 LUOR Grizzly Bear
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>The proposed block is located within the High and Very High) grizzly bear capability units identified in the FSP and LUOR Objective # 33 and 34. It is consistent with the FSP and conforms to the LUOR Objectives.</p> <p>The prescribed area is not located within 100m of a herb-dominated avalanche track, a run out zone on southerly and westerly aspects or within critical fish habitat and there are no known grizzly dens in the area.</p> <p>In order to protect berry production in the interests of grizzly bears, brushing treatments will be implemented as follows:</p> <p>a) herbicides will not be used and manual brushing will be restricted to manual cutting, targeting competing vegetation (including woody competitors) within 2.5 m of existing conifers.</p>
Result or Strategy Description	4.3.2.3 Species at Risk Outside of WHAs
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	An occurrence of Mountain Caribou, a known Species at Risk within the Quesnel area and identified in the FSP, has been mapped within the proposed block. This site plan is consistent with the FSP and the Quesnel Highlands Caribou strategy for management of Mountain Caribou.
Result or Strategy Description	4.3.3.2 Fur-Bearers
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The site plan is consistent with the FSP for management of Fur-Bearers through landscape level management, wildlife tree retention and riparian management specified in other sections of the FSP.
Result or Strategy Description	4.3.2.1 WHAs
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of the Wildlife Habitat Areas of American White Pelican, Mountain Caribou, Northern Caribou and the Data Sensitive Species, as identified in, GAR Orders and associated maps and within FDU # 1 of the FSP.
Result or Strategy Description	4.3.3.1A Moose - High Value Wetlands
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>No harvest of Riparian Management Areas (RMAs) associated with a High Value Wetland for Moose is proposed in this site plan.</p> <p>There are also no roads proposed for construction within 500 meters of a wetland designated as High Value Wetlands for Moose.</p> <p>The roads proposed in this SP are not within the viewscape of a designated High Value Wetlands for Moose.</p>

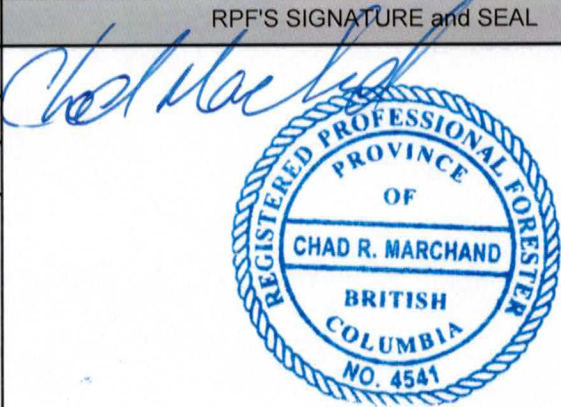
Result or Strategy Description	4.3.3.1B Moose - Wetland RMZ Retention
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	There are no wetland associated with this block.
Result or Strategy Description	4.3.4.1 Mule Deer FDU1
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of the applicable management areas of Mule Deer Winter Range within FDU 1, as identified in the FSP and associated maps.
Result or Strategy Description	4.3.4.2 Mule Deer FDU2
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed block is located outside of the applicable management areas of Mule Deer Winter Range within FDU 2, as identified in the FSP and associated maps.

STOCKING REQUIREMENTS

SU	NAR	STANDARDS ID #	OTHER PERFORMANCE STANDARDS
1	17.2	1018952	Stand Density: The maximum countable stocking, at the time of free growing declaration, for lodgepole pine leading stands where pine is > 80 percent of the inventory is 25,000 stems per hectare. All other species and mixed pine stands where pine is less than 80 percent of the inventory will have a maximum of 10,000 countable stems per hectare at the time of free growing declaration. Appropriate post spacing minimum and maximum densities will be determined site specifically based on a professional evaluation which considers a variety of factors including crop tree species, health and vigour, site characteristics and target timber product.
COMMENTS	The following requirements must be met in order to meet acceptable species standards in regard to form, health and vigour: less than 17.5cm dbh, straight stem with no breaks, bark damage less than 50% of circumference, free of all active disease and insect damage (and agents) except low levels of defoliator activity, live crown greater than 33%.		

ADMINISTRATION

Amendment number	Date Typed (Yr Mo Dy)	Map Required?
ORIGINAL	2017 01 12	YES

RPF PRINTED NAME	RPF'S SIGNATURE and SEAL
CHAD MARCHAND	
DATE SIGNED	
2017/01/12	
I certify I personally completed the work described herein.	

Map attached forms an integral part of the site plan.

SUPPORT DOCUMENT

ORIGINAL

LICENCE #	CP	BLOCK	UBI	OPENING NUMBER	FDU	LOCATION	LATITUDE / LONGITUDE
A56030	-	1	BL70R	093H012-84	FDU 1	2100 road	53 07 02 / 121 41 36

ASSESSMENTS

VISUAL IMPACT ASSESSMENT INFORMATION	
This block is not located in a visually sensitive polygon. No VIA is required.	
PEST INCIDENCE SURVEY INFORMATION	
Pest Specific Comments	
Limited re-occurring beetle infestation was noted throughout the opening.	
The feasibility and requirements of other forest health treatments will be determined during future silviculture surveys.	
Forest Health Comments	
This Site Plan is consistent with the current Bark Beetle Strategy for this area. Other forest health factors will be monitored at the time of silviculture survey.	
ARCHAEOLOGICAL IMPACT ASSESSMENT INFORMATION	
An AIA has been completed and this block contains high archaeological impact potential along the fringes of the block. The proposed harvestable area is consistent with the AIA recommendations. No further assessments are required.	
TERRAIN STABILITY FIELD AND GULLY ASSESSMENTS INFORMATION	
Terrain Stability Comments	
This block does not contain unstable or potentially unstable terrain as per overview terrain stability mapping. No indicators of instability were noted in the field. No further action required.	
Gully Comments	
There are no gullies associated with the proposed harvestable area.	
VEGETATION	
Invasive Plant Measures	
No invasive plants are known to exist near this TSL based on a review of the Invasive Alien Plant Program Display.	

RIPARIAN ASSESSMENTS					
Management Strategies					
The block is directly adjacent to a S2 (Willow River) and S3 streams. Appropriate buffers are in place to meet the BA retention set out in the FSP.					
Riparian I.D. and Class	RMA	SU	WIDTH (m)	BA or SPH Retained	Comments (Indicate if in a Community Watershed)
S3-1 S3	RMZ	1	20.0		The minimum 20% BA retention of the RMZ of this riparian features has been retainend as per the FSP.
	RRZ	1	20.0		The RRZ of this riparian features has been completely protected from harvest.
S2-1 S2	RMZ	1	20.0		The minimum 20% BA retention of the RMZ of this riparian features has been retainend as per the FSP.
	RRZ	1	30.0		The RRZ of this riparian features has been completely protected from harvest.

SOIL ASSESSMENT							
HAZARD RATINGS				SOIL CHARACTERISTICS			
SU	Soil Comp	Soil Erosion	Soil Disp	Depth To Unfavourable Subsoil		Type of Unfavourable Subsoil	Sediment Delivery Risk (Community Watersheds)
				Min(cm)	Max(cm)		
1	M	M	M	21.0	30.0	SM	
COMMENTS							
This SU has a moderate compaction, surface erosion and soil disturbance hazard ratings. Harvesting is to occur on dry or on frozen soils or with a compressible snowpack of greater than 30cm.							

RESERVE / RETENTION INFORMATION

WTRA / WTP (INSIDE OR ATTRIBUTED TO THE BLOCK)						
I.D.#	Area	Description				
WTP	4.2	Wildlife Tree Patch				
GROUP WTRA / WTP AND SITE DEG. CALCULATION (to be retained on the first block of the Permit only)						
Block	Gross Cutblock Area	WTRA / WTP	%	BEC	Perm Access	%
1	22.0	4.2	19.2	SBS/wk/1	0.5	2.4
2	32.6	5.1	15.6	ESSF/wk/1	2.1	6.5
3	27.6	0.2	0.8	ESSF/wc/3	1.5	5.6
4	23.6	7.1	30.2	ESSF/wc/3	0.1	0.5
Total # of Blocks: 4	105.7	16.6	15.7		4.3	4.1

SUPPORTING INFORMATION

HLP/FSP CONSIDERATIONS
Wildlife/Endangered Species Comments
Moose, deer and bear sign noted. No species at risk species were noted or identified for the area. This block is located within high and very high grizzly bear habitat polygon as identified in the CCLUOR, and is not within 100m of herbaceous dominated avalanche tracks.
Range Comments
No range tenure agreements are in place with overlap of the proposed harvest activities.
Fisheries Comments
This block is located within the Willow River Watershed.
Watersheds/Hydro Assessments Comments
This block is not located within a community watershed.
Sensitive Areas Comments
N/A
Recreation Comments
Normal hunting and hiking use expected.
Cultural Heritage Comments
An AIA has been completed and this block contains high archaeological impact potential along the fringes of the block. The proposed harvestable area is consistent with the AIA recommendations. No further assessments are required.
Biodiversity Emphasis/L.U. Comments
Stand level biodiversity in the form of wildlife tree patch retention is being proposed on this block. The block was designed to mimic Natural Disturbance Types. WTPs were established to allow wildlife movement along the waterways tying high elevation areas to lower elevation areas. The retention levels within this block are consistent with the stand level retention levels as identified in the Forest Stewardship Plan.
Other Resources Comments
WTP's and other reserves are of sufficient size to minimize windthrow. Some edge windthrow will likely occur. Single merchantable Sx and BI will not be retained due to windthrow risk. Adjacent logged blocks indicate that mature trees are not windfirm. An overview of the area indicates that prevailing winds are from the south west. Trappers:TR0515T017 Guides:Cushman, Timothy 701180
ADDITIONAL COMMENTS:

ADMINISTRATION

Amendment number	Date Typed (Yr Mo Dy)	Map Required?
ORIGINAL	2017 01 12	YES

RIPARIAN ASSESSMENTS					
Management Strategies					
The block is directly adjacent to a S2 (Willow River) and S3 streams. Appropriate buffers are in place to meet the BA retention set out in the FSP.					
Riparian I.D. and Class	RMA	SU	WIDTH (m)	BA or SPH Retained	Comments (Indicate if in a Community Watershed)
S3-1 S3	RMZ	1	20.0		The minimum 20% BA retention of the RMZ of this riparian features has been retainend as per the FSP.
	RRZ	1	20.0		The RRZ of this riparian features has been completely protected from harvest.
S2-1 S2	RMZ	1	20.0		The minimum 20% BA retention of the RMZ of this riparian features has been retainend as per the FSP.
	RRZ	1	30.0		The RRZ of this riparian features has been completely protected from harvest.

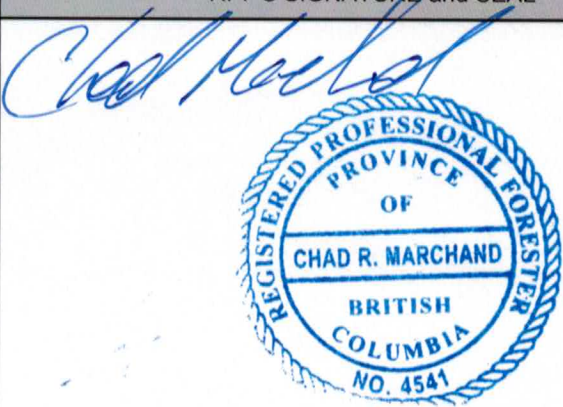
COARSE WOODY DEBRIS MANAGEMENT STRATEGY INFORMATION		
Non beetle-infested, dead-useless material will be left on site to contribute to coarse woody debris (CWD).		
Reduce the number and size of CWD accumulations on roadside and landing areas leaving the accumulations scattered throughout the block.		
Wildlife tree patches and stubs will provide future sources of CWD recruitment.		
The target for CWD is to leave a minimum of 4 logs per hectare, each being a minimum of 2 m in length and 7.5 cm in diameter at one end.		
Performance Std. (%) :	Block Target (%):	Coarse Woody Debris (m3/ha):

DEFINITIONS

ADMINISTRATION

Amendment number	Date Typed (Yr Mo Dy)	Map Required?
ORIGINAL	2017 01 12	YES

Print off the PAS/TAS table located as an attachment on the Block Details Screen and attach to this prescription.

RPF PRINTED NAME	RPF'S SIGNATURE and SEAL
CHAD MARCHAND	
DATE SIGNED	
2017/01/12	
I certify I personally completed the work described herein.	

SILVICULTURE PLAN

ORIGINAL

LICENCE #	CP	BLOCK	UBI	OPENING NUMBER	FDU	LOCATION	LATITUDE / LONGITUDE
A56030	-	1	BL70R	093H012-84	FDU 1	2100 road	53 07 02 / 121 41 36

ECOLOGICAL INFORMATION

SU	Ecology Unit	Area	Zone	Subzone	Variant / Phase	Site Series (series - %)	Elevation Avg (m)	Slope Avg (%)	Aspect	Slope Position	Rooting Depth (cm)	Soil Texture
1	A	17.2	SBS	wk	1	07-60 06-40	1,127	5	F	Level	50	SL

STOCKING REQUIREMENTS

ASSESSMENT DATES

Standard Unit	Standards ID	Regen Delay (yrs)	Freegrow Early (yrs)	Freegrow Late (yrs)
1	1018952	7		20

Min/Max Elevation Regime: 1125 / 1130

SU : 1 REGENERATION LAYER											
PREFERRED SPECIES			ACCEPTABLE SPECIES			POST SPACING DENSITY(sph)		MAX CONIFEROUS (sph)			
Species		Min Ht. (m)	Footnotes	Species		Min Ht. (m)	Footnotes	Min	Max		
Sx	Hybrid Spruce (SE x SW)	1.0	32	Bl	Subalpine Fir	1.0	32	WELL SPACED TREES (sph)			
								Target Pref/Acc	Minimum Pref/Acc	Minimum Pref	Min Horizontal Dist. Pref/Acc (m)
								1200	700	600	2.0
										Height Relative to Competition (%)	
Pli	Lodgepole Pine - Interior	2.0								150	
32: Limited by growing-season frosts											

OTHER REQUIRED STOCKING INFORMATION

The following requirements must be met in order to meet acceptable species standards in regard to form, health and vigour: less than 17.5cm dbh, straight stem with no breaks, bark damage less than 50% of circumference, free of all active disease and insect damage (and agents) except low levels of defoliator activity, live crown greater than 33%.

ACTIVITIES

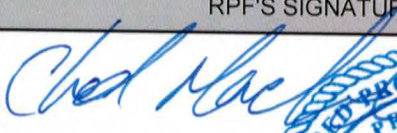
SILVICULTURE ACTIVITY COMMENTS	
ACTIVITY	COMMENT
Silvicultural Constraints	A standards ID approved in the FSP has been applied to the proposed block. The late free growing date will be 20 years. Standard units will be assessed for free growing when stocking standards are met, regardless of age.
Silvicultural Constraints	<p>The proposed block is located within the High Rating grizzly bear capability unit identified in the FSP and LUOR Objective # 33 and 34. It is consistent with the FSP and conforms to the LUOR Objectives.</p> <p>The prescribed area is not located within 100m of a herb-dominated avalanche track, a run out zone on southerly and westerly aspects or within critical fish habitat and there are no known grizzly dens in the area.</p> <p>In order to protect berry production in the interests of grizzly bears, brushing treatments will be implemented as follows:</p> <p>1) herbicides will not be used and manual brushing will be restricted to manual cutting, targeting competing vegetation (including woody competitors) within 2.5 m of existing conifers.</p>

MANAGEMENT STRATEGY

COARSE WOODY DEBRIS MANAGEMENT STRATEGY INFORMATION	
Non beetle-infested, dead-useless material will be left on site to contribute to coarse woody debris (CWD).	
Reduce the number and size of CWD accumulations on roadside and landing areas leaving the accumulations scattered throughout the block.	
Wildlife tree patches and stubs will provide future sources of CWD recruitment.	
The target for CWD is to leave a minimum of 4 logs per hectare, each being a minimum of 2 m in length and 7.5 cm in diameter at one end.	
Performance Std. (%):	Block Target (%): Coarse Woody Debris (m3/ha):

ADMINISTRATION

Amendment number	Date Typed (Yr Mo Dy)	Map Required?
ORIGINAL	2017 01 12	YES

RPF PRINTED NAME	RPF'S SIGNATURE and SEAL
CHAD MARCHAND	 
DATE SIGNED	
2017/01/12	
I certify I personally completed the work described herein.	