SITE PLAN CP 421 BLOCK 3 COOPER CREEK CEDAR LTD.

A. TENURE IDENTIFICATION

LICENCE NO.: FL A30171	CP: 421	BLOCK: 3	TIMBER MARK: FE5421	UTM: 501851 E / 5567429 N	LICENSEE NAME: Cooper Creek Cedar Ltd.
AREA UNDER TENURE (ha):	MAPSHEET/OPENING #:		ELEVATION:	LOCATION:	
41.0	82K026		595-815 m	Severid Spur	

B. AREA SUMMARY

					AREA O	F NO PLANN	ED REFORESTATION (ha)	(NPR)			
	REFINANCE ROCK WATER SWAMP OTHER NC>4ha WILDLIFE TREE IMMATURE OTHER (RESERVE)										TOTAL NPR AREA
5.9		-	-	-	-	-	4.3	-	-		10.2
	NET AREA TO BE REFORESTED (ha)										
SU	This l	block is lo	cated on Gr	eyhorse Rid	ge	SU AREA D	ESCRIPTION				T AREA TO BE EFORESTED:
A	Terra facin fragn is a th Soils Reter TU 1 :	g, slopes r nent conto hin mor (4 are non-s ntion Stra : (14.1 ha)	ber of moder range from ent is mode 1.5-8.5cm th ensitive . tegy: See Se Conventio	0-55%. Surfa rate (35-65% nickness) and ection G – Sil nal ground k	ce and sub 6). Moisturd I rooting de vicultural S pased harve	soil texture i e regime is si ppth is 31-40 ystems. est methods	lat benches and rolling ro s Silty loam. Soils are moo ubmesic and nutrient regi cm. and a Clearcut with Reser serves silviculture system	derately-well dr me is poor to n ves silviculture	ained. Coarse nedium. Humus form		30.8
								TOTAL NET ARE	A TO BE REFORESTED:		30.8
								TOTAL A	REA UNDER THE PLAN:		41.0

SOIL DISTURBANCE

SU	Max. Allowable Soil	Max. Amount TAS May Exceed	Max. Allowable Soil Disturbance For	Maximum Permanent Access Structures
	Disturbance (%)	MASD Prior to Rehab (%)	Roadside Work Areas (%)	(%)
A	10.0	5.0	25%	14.4

LICENCE NO: FL A30171	BLK: 3	CP: 421	Mapsheet: 082K026	PAGE: 2 of 10	RUN DATE:

RESULTS AND STRATEGIES

RESULTS AND STRATEGIES	
Biodiversity Objectives	
Result or Strategy Description	3.5.3 - Old and Mature Forest
Applies:	YES
How the Result or Strategy Applies to the Site (or Rationale if it does not apply)	 'KBHLP Objective 2 – Old & Mature Forests' Landscape Unit K17 This block falls within ICHmw2 (High Biodiversity emphasis). There are targets for Mature + Old. Analysis shows a surplus of Mature + Old in the Landscape Unit / BEC pairing as well as Connectivity Corridor. Requirement for Old Forest is considered to be met through spatially, non-legal Old Growth Management Areas (OGMAs). CP 421 does not include any harvest of Old Forest.
Result or Strategy Description	3.5.3 - Green-up
Applies:	YES
How the Result or Strategy Applies to the Site (or Rationale if it does not apply)	'KBHLP Objective 4 – Green-up' – The proposed cutblock is consistent with FPPR Section 65(2).
Result or Strategy Description	3.5.1 - Objectives set by Government for Wildlife and Biodiversity – Landscape Level
Applies:	YES
How the Result or Strategy Applies to the Site (or Rationale if it does not apply)	'KBHLP Objective 4 – Green-up'. The proposed cutblock complies with Sections 64 and 65 of the FPPR.
Cultural Heritage Resources	
Result or Strategy Description	3.7 - Objectives set by Government for Cultural Heritage Resources
Applies:	YES
How the Result or Strategy Applies to the Site (or Rationale if it does not apply)	A referral letter dated January 26, 2024 was sent to the appropriate individual(s) and/or group(s).
	The First Nations referral/engagement period is ongoing for CP 421.
Recreation Resources	
Result or Strategy Description	4.3 - Recreation Sites
Applies:	NO
How the Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed cutblock is not located within a designated Recreational Area or Trail with legal objectives; therefore, managing for Recreation Resources is not applicable.
Riparian Management	
Result or Strategy Description	3.4.1 Objectives set by Government for Fish, Water, Wildlife & Biodiversity in Riparian Areas
Applies:	YES
How the Result or Strategy Applies to the	1) See Section E.1 for Riparian Management Strategies.
Site (or Rationale if it does not apply)	 2) See Section F for management strategies related to Temporary Access Structures and Soil Disturbance that should be used during and post-harvest in order to prevent/reduce soil disturbance and sediment delivery.
Soil Objectives	
Result or Strategy Description	3.1 - Objectives set by Government for Soils [FPPR Section 5 and 12.1(1)]
Applies:	YES
How the Result or Strategy Applies to the	 SU A contains non-sensitive soils and soil disturbance will not exceed 10%. Specific measures for
Site (or Rationale if it does not apply)	mitigating soil disturbance levels are addressed in Section F of this Site Plan.
	 Areas of the block where temporary access structures are required will be rehabilitated. Specific rehabilitation measures are addressed under Section F of this Site Plan.
	 3) PAS (Permanent Access Structure) exceeds the recommended limit of 7.0% and is estimated at 14.4%.
	 This is due to roads required to access timber beyond as well as the long narrow shape of the block. Areas within the block assigned to roadside work areas will not exceed 25%.
Visual Objectives	
Result or Strategy Description	3.6 – Visual Quality
Applies:	YES
How the Result or Strategy Applies to the Site (or Rationale if it does not apply)	Portions of CP 421 fall within Modification (M) and Partial Retention (PR) visual landscape units. The remainder of the permit falls within an area that is not visually sensitive. A visual Impact Assessment was completed in 2023. The proposed CP 421 meets the established Visual Quality Objectives based on the FPPR section 1.1 definition of Modification and Partial Retention and the size, shape and design of proposed cutblocks.
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LICENCE NO: FL A30171	BLK: 3	CP: 421	Mapsheet: 082K026	PAGE: 3 of 10	RUN DATE:

Water Management Objectives	
Result or Strategy Description	3.4.4 - Consumptive Use Streams
Applies:	YES
How the Result or Strategy Applies to the Site (or Rationale if it does not apply)	 'KBHLP Objective 6' – CP421 Block 3. There are legal points of diversion (POD) downstream of CP 421. Referral letters dated February 20, 2024 were sent to POD licensees with a 30 day response period. See Section E.1 for Riparian Management Strategies.
Wildlife Objectives	
Result or Strategy Description	3.3.1 - Objectives set by Government for Wildlife - Species at Risk – Section 7 of the FPPR
Applies:	YES
How the Result or Strategy Applies to the Site (or Rationale if it does not apply)	The block is not within a Wildlife Habitat Area. There were no sightings of Species at Risk during field development of this cutblock. No Wildlife Habitat Features were observed during development of this CP.
Result or Strategy Description	3.5.2 - Objectives set by Government for Wildlife and Biodiversity – Stand Level
Applies:	YES
How the Result or Strategy Applies to the Site (or Rationale if it does not apply)	Three internal Wildlife Tree Retention Areas are planned for this block, totalling 4.3 ha . Overall wildlife tree retention percentage for block 3 is approximately 10.5%. Total WTRA for CP 421 is 17.6 ha which constitutes approximately 10.1 % of the gross area of the permit. Wildlife tree retention in CP 421 is consistent with FPPR section 66.
Result or Strategy Description	3.3.2 – Ungulates
Applies:	YES
How the Result or Strategy Applies to the Site (or Rationale if it does not apply)	CP 421 overlaps three Ungulate Winter Range management units with specific forest cover requirements which are applied as general wildlife measures. UWR was analyzed using the HLPO Reporting suite. Following harvest of CP 421 the UWR Management Units overlapping CP 421 will meet forest cover requirements for each General Wildlife Measure.

Consistency Statement This block is consistent with the approved 2018 to 2023 Forest Stewardship Plan for Cooper Creek Cedar Ltd – Forest Licence A30171. This Site Plan is prepared for FL A30171 CP 421 Block 3, in accordance with FRPA Section 10(1), (2) & (3). Community Watersheds FSP Section 3.4.3 Not applicable - The proposed block is not located within a Community Watershed. Enhanced Resource Development Zones FSP Section 3.2.1 'KBHLP Objective 7 – Enhanced Resource Development Zones – Timber' Block 3 is not within an Enhanced Resource Development Zone. FSP Section 3.5.3 'KBHLP Objective 8 – Fire maintained Ecosystems'. There are no NDT 4 ecosystems in the FDUs under this FSP; therefore the requirement to create a Result/Strategy for this objective does not apply. Fisheries Sensitive Watersheds FSP Section 3.4.2	ADDITIONAL COMMENTS
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Invasive Plants FSP Section 4.1 – Invasive Plants The InvasivesBC website was checked on November 8, 2023. The following invasive species were reported in nearby areas to CP 421 mainly at low elevations along Highway 31: Burdock, Canada thistle, Chicory, Common tansy, Oxeye daisy, Spotted knapweed, Diffuse knapweed, St. Johns wort devil hawkweed, Night-flowering catchfly and yellow hawkweed. Measures to prevent the introduction or spread of invasive plants noted in the FSP include: • Cleaning equipment before moving from a worksite with existing infestations to a new work site. • Minimizing soli disturbance during primary forest activities (PFA). • Reseed exposed mineral soil, resulting from a PFA in the first available fall or spring within 12 months following the soil disturbance. Plan pla cutblocks as soon after harvesting as possible. • During PFAs minimize soil disturbance by: • Harvest on a snowpack, when feasible • Utilize benches for skid trails to minimize skidder traffic on the ground • Utilize benches for skid trails to reduce contact with the ground • Utilize brank to construct skid trails to reduce contact with the ground • Where grass seeding is undertaken, CCC will use certified grass seed (Canada common #1 or better grade) from reputable suppliers to ensure premium quality free of invasive plant seed, or a seed mix recommended by a MFLNRO range specialist. • See FSP for additional strategies and practices regarding invasive plants. Nataral Range Barriers FSP Sectio	
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Wildlife – Caribou	
FSP Section – 3.3 and 3.5.3	
 'KBHLP Objective 3 – Caribou' was cancelled and replaced by GAR Order #U-4-012 – Mountain Caribou – Southwest Kootenay Planning Unit. This b within the Southern Mountain Caribou Matrix Range and Beneficial Management Practices (BMPs) for operating in woodland caribou habitat have applied to CP 421. BMPs include: Caribou Sign and Sightings - Staff and contractors are to report any sightings or sign to supervisor. 'Silviculture treatments will not result in the conversion of forest cover to pure spruce stands. The intent is to have silviculture practices 	been
a species composition that existed prior to forest harvest'. A mixed species composition will be planted. Wildlife – Grizzly Bear Habitat – Connectivity FSP Section 3.3 and 3.5.3	

'KBHLP Objective 5 – Grizzly Bear Habitat & Connectivity Corridors'.

CP 421 falls within Connectivity Corridor. Analysis shows a surplus of Mature + Old in the Landscape Unit / BEC pairing as well as Connectivity Corridor following harvest of CP 421.

STOCKING REQUIREMENTS

SU	NAR (ha)	Standards ID #	Other Performance Standards
А	30.8	1057474	See Section H - Stocking Requirements

C. MANAGEMENT OBJECTIVES & STRATEGIES

C.1 MANAGEMENT OBJECTIVES

- Objectives for CP 421 Block 3 include protecting domestic water sources, and maintaining biodiversity, visual and wildlife values.
- Harvest this mature stand of <u>Cw Fd Hw (Lw Ep)</u> for sawlogs, chips and value-added products and manage for a healthy, free growing stand of planted and natural <u>CwFdLwPwHw (Pl Pl Sx)</u> for similar end products.
- <u>Wildlife Tree Retention Area (WTRA)</u>: WTRA's are planned for retention, totalling **4.3** ha in size (10.5% of the block). The reserves shelter mature stand values, wildlife values, riparian areas and portions of stand structure that are similar to the harvest area.
- Kootenay Boundary Land Use Plan Implementation Strategy (June 1997): This block is located within the designated Landscape Unit K17– High BEO Assignment.

C.2 CONDITIONS THAT MUST EXIST AFTER HARVEST OR TREATMENT TO ACCOMMODATE KNOWN FOREST RESOURCES

C.2a WILDLIFE

Stand Level attributes/ concerns identified:

Ungulate Winter Range: See RESULTS AND STRATEGIES section 3.3.2 - Ungulates

Migratory Bird Habitat Assessment: Block 3 is within Migratory Bird Risk Rating 4 polygon (VRI: Age class 6/7, height class 3/4, FL (CwHw)). CCCs adopted Migratory Bird Management Strategy's matrix therefore requires:

The entire Site must be scheduled for harvest outside Restricted Period 2 (May 15-July 20), OR
 One or more BMP's with DoP rank 2 (moderate) must be selected from the list of BMPs and applied to the Site.

In the event harvesting takes place within the nesting period BMP PL2 has been implemented on site to reduce the likelihood of incidental take and to conform to CCC's adopted management strategy. PL2 refers to Patch/edge retention designed around "biodiversity anchors". WTRA has been established in areas of more complex structure suitable to nesting.

BMP PL3 and SO4 have been implemented as well. PL3 refers to the appropriate training of forest planners, layout personnel, and forest workers. SO4 refers to operation specific recommended practices when chance encounters of active nests occur.

LICENCE NO: FL A30171 BLK: 3 CP: 421 Mapsheet: 082K026 PAGE: 5 of 10 RUN DATE:
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Total Area specified for the retention of wildlife trees: **4.3 ha** (10.5% of gross area)

Wildlife Tree Retention Area (WTRA):

Fd 4 Hw3 Cw2 Ep1 – 90 years – 31.0m – 60%cc – Areas containing large boulders, fir and birch snags. Complex vertical structure with clumps of juvenile stands, tall shrubs and deciduous and areas similar to the harvest area. Moderate cover of browse noted: maple, birch, Saskatoon berry and willow. Fir and larch snags noted with woodpecker activity.

WTRA also provides structure values for wildlife, perching and cover values, riparian values and visual values. WTRAs have been established in part, as a best management practice for the reduction of migratory bird incidental take.

C.2c FISHERIES

There are no fish streams within the block.

See Section E.1 for Riparian Management Strategies.

Drainage from the the cutblock area flows down slope toward the Lardeau River.

C.2d WATERSHEDS

See section 3.4.4 (Consumptive Use Streams)

C.2e RECREATION

Not applicable. The proposed cutblock is not located within a designated Recreational Area or Trail with legal objectives.

C.2f BIOLOGICAL DIVERSITY

Landscape Unit - K17 (Goat Range): High BEO Assignment.

C.2g VISUAL RESOURCE MANAGEMENT

See RESULTS AND STRATEGIES section 3.6 (Visual Quality)

C.2h CULTURAL HERITAGE

See RESULTS AND STRATEGIES section 3.7 (Objectives set by Government for Cultural Heritage Resources).

See section E.5 for Archaeological information.

C.2i RANGE

Not applicable. There are no range tenures located in the FDUs covered by this FSP.

C.2j OTHER RESOURCES

Trapping / Guiding:

Trappers or guiding license holders in the area will be identified and notified through the Forest Stewardship Planning process.

Windthrow:

Windthrow hazard is **Moderate** for adjacent mature stands. Mature stands surrounding the harvest area are similar to the block with moderately well drained soils. Adjacent stands have been exposed to wind impacts by past openings.

Soils are fine to moderate with 31-40 cm rooting depth.

CONDITIONS NOT APPLICABLE TO THIS SITE PLAN

THE FOLLOWING CONDITIONS WERE CONSIDERED, AND FOUND NOT TO BE APPLICABLE TO THIS SITE PLAN: None identified.

LICENCE NO: FL A30171 BLK: 3 CP: 421 Mapsheet: 082K026 PAGE: 6 of 10 RUN D.	JN DATE:
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E. MANAGEMENT STRATEGIES

E.1 RIPARIAN	E.1 RIPARIAN MANAGEMENT STRATEGIES								
RIPARIAN RESE	RVE ZONE (RRZ)								
RIPARIAN/ LAKE ID	RIPARIAN/ LAKE CLASS	HARVES	TING Y/N	SU XREF	DESCRIPTION OF THE PURPOSE AND EXTENT OF REMOVAL OR MODIFICATION OF TREES AND ANY RELATED FOREST PRACTICES IN RIPARIAN RESERVE ZONE(S)				
Lardeau S1-A N River			N	N/A	0m RRZ: Block 3 is located >100m from the edge of the Lardeau River.				
RIPARIAN MAN	AGEMENT ZONE	(RMZ)							
ID G Y/N XREF PROTECTING STREAM BANKS (if there is no RRZ), MAI					FEGIES FOR RIPARIAN OR LAKESHORE MANAGEMENT AREAS INCLUDING I BANKS (if there is no RRZ), MAINTAINING SHADE, AND DEBRIS MANAGEMENT. IF DING ACROSS STREAMS. INCLUDE EITHER THE RESIDUAL BASAL AREA <u>OR</u> DENSITY Z (S).				
Lardeau River S1- N A		N/A	100m RMZ: 50% of the RMZ basal area will be retained outside the harvest boundary. Block 3 is located 100m from the edge of the Lardeau River at the nearest point.						
NON-CLASSIFIE	D (NC) RIPARIAN	AREAS							
RIPARIAN/ LAKE ID	SU XREF	MANAGEM	1ENT STRATE	GIES					
Section E.1 con	itinued								
harvesting	g will be removed	upon compl	etion of harv	esting activ	D's, wetland) where practicable. Any debris entering a riparian feature as a result of vities unless it does not obstruct water flow or its removal would cause further damage to nels to the extent possible.				

2) Where **watercourses** are crossed more than once, it is recommended to place a temporary skid bridge (e.g.: logs placed in draw) in order to prevent a potential diversion of flow.

3) All machine trails and crossings (NCD) should be fully rehabilitated upon the completion of harvesting or prior to the next freshet. Excess material that could cause redirection of natural drainage patterns should not be left at crossing locations.

All surface drainage patterns should be maintained and any that are disrupted as a result of harvesting operations should be restored immediately.
 A post-harvest inspection should be completed to assess the amount of logging debris/excess soil within the wetted perimeter of all subtle drainage features. All natural drainage patterns should be maintained and left free of excess debris (slash or soil) that could result in a redirection of seasonal surface runoff/drainage diversion.

6) Basal area retention levels for the in-block RMZ (within the NAR) are based on windthrow, windfirmness, wildlife habitat, water quality, and operational constraints.

E.2 FO	REST HEA		GEMENT	STRATEGIES							
SU	Code	Nelson R Risk Fact	egion DRA ors	A Points	Points Relative Comments Risk						
A	Host factors 4 M • The Nomographic Zones in Section 3.0 of the <u>"Armillaria Root Disease Mar Guidelines for the Nelson Forest Region" (June 1998)</u> indicate that Alternat Intensive deferred treatments for root disease management are appropria should Armillaria become a problem.										
		Total		 Alternative treatments will include planting a species mixture that includes species tolerant and /or moderately susceptible to Armillaria (e.g.: Cw, Lw, Pw). Fd (highly susceptible) may be included but should be limited to a maximum of 50% of the mi Microsite selection should reflect buffer zones around infected stumps, if they can identified. Hand-pulling (preferred) or pop-up spacing (alternative) should be considered in th future should Armillaria become a limiting factor in meeting regeneration or free gr requirements (see section H). 							
					1	Other Forest Health Factors					
SU	0	Code % Comments Comments Current risk to inventory									
A		IBD	Symptoms of fir bark beetle attack were noted in the stand. IBD infected fir should be excluded from leave tree selection.								
A		DSB	0		Pw is absent or present in minor amounts in the current stand. Plant only rust resistant stock. Expect high incidence of white pine blister rust on any naturally regenerated Pw.						
А	[DML	OML <1								
E.3 VE	GETATION	N MANAGE	MENT ST	RATEGIES							
LIVEST	ЭСК ТО ВЕ	E USED FOR	VEGETAT	ION MANAG	EMENT:	YES: D NO: 🗵					
See Sec	tion H5: F	BRUSHING	/ STAND T	ENDING							
E.4 CO	ARSE WO	ODY DEBRI	IS (CWD) I	MANAGEMEI	NT STRATEGIE	S					
CWD le	vels are lo	ow (7-10%)	ground co	ver). CWD is	predominant	ly composed of 15-40cm diameter stems. Fd Ep Hw Cw are the dominant CWD s	pecies.				
			•	st-harvest in a nd breakage.		ith wildfire mitigation strategies. Post-harvest CWD will consist of non-merchant	able existing				
(FPPR S	ection 68	s): Manage	for the m	inimum of 4	logs per hecta	are, each being at least 2 metres in length and at least 7.5cm in diameter at one	end.				
See the	SITE PRE	P section (H	13) for ad	ditional CWD	management	strategies.					
.5 AR	CHAEOLO	OGICAL IMP	PACT ASSE	SSMENT							

Archaeological Overview Mapping was not completed over the CP 421 area.

Fraser Bonner of Ursus Heritage Consulting Ltd reviewed the CP and recommended that portions of CP 421 Blocks 2 and 3 be surveyed for Archaeological potential.

A preliminary field review was completed November, 2023 wherein it was determined that three areas within Block 2 were observed and recorded as areas of potential (AOP). It was recommended to avoid these areas or undertake further work under an Archaeological Impact Assessment.

These three areas have been reserved from harvest.

LICENCE NO: FL A30171 BLK: 3 CP: 421 Mapsheet: 082K026	PAGE: 8 of 10	RUN DATE:

F. SOIL CONSERVATION

F.1 SITE D	ISTURBANCE							
		HAZARD RATINGS			SOIL CH	ARACTERISTICS		
SU	SOIL COMPACTION	SOIL DISPLACEMENT	SURFACE SOIL EROSION	DEPTH TO UN SUBSO		TYPE OF UNFAVOURABLE SUBSOIL		
				MIN(cm) MAX(cm)				
А	High	Moderate-High	High	50 52 Fragmental (>70% CF)				
F.2 SOIL D	DISTURBANCE LIMITS							
	THERE SENSITIVE SOILS		ION ALLOWED FOR PERMA	ANENT ACCESS ST	RUCTURES (PAS):	14.4%		
MAX. PROPORTION OF TOTAL AREA UNDER THE PRESCRIPTION ALLOWED FOR PERMANENT ACCESS STRUCTURES (PAS): 14.4% Roadside harvesting or temporary landings will be used.								
DEACTIVAT all landings		CCESS STRUCTURES: An	y landings will be deactiva	ted – debris will b	e piled & burned,	, water control will be installed around		
SU	MAXIMUM ALLOWABLE SOIL DISTURBANCE WITHIN THE NET AREA TO REFOREST (%) MAXIMUM EXTENT SOIL DISTURBANCE LIMITS MAY BE TEMPORARILY EXCEEDED TO CONSTRUCT TEMPORARY ACCESS STRUCTURES OR EXCAVATED OR BLADED TRAILS (%)							
А		10%		5%				
Maximum : rehabilitate	ed to the extent necessa	nay be exceeded for shor ary to bring the SU net are	t periods of time; however ea back into compliance w tructures or excavated or	ith the specified s	oil disturbance lir	or excavated or bladed trails will be nits.		
Avoid harve	esting during spring free	het/breakup conditions v	when soils are moist to rec	duce soil displacen	nent and compac	tion.		
Steep slope	es >35% are present wit	hin SU A, see Harvest Pla	n Map. Cable and ground	based harvest me	thods will be use	d		
F.3 REHA	BILITATION TIME FOR T	EMPORARY ACCESS STRU	JCTURES					
MAXIMUM	ALLOWABLE TIME TO COMI	PLETE REHAB (MEASURED FR	OM COMPLETION OF HARVES	T): <u>1 YEAR</u>				

LICENCE NO: FL A30171		
	LICENCE I	NO: FL A30171

BLK: 3 CP: 421

Mapsheet: 082K026

RUN DATE:

SU		MAY							
	GENERAL LOCATION: MAX AVERAGE ALLOWABLE HEIGHT OF CUTBANKS (m) ALLOWABLE HEIGHT OF CUTBANKS (m) CUTBANKS (m)								
А	Blading or excavating is expected to occur in parts of the unit with moderate to steep slopes.0.80.3Skidder, cat.								
SU A : Logging Method:									
	• TU 1: Ground based. Adverse and favorable	skidding to roadsi	des and landings.						
• TU 2: Cable . Downhill and uphill yarding to roadside and landings.									
See Section E.1 for stream management strategies.									
The following will apply for any excavated/bladed trails that are required:									
Maximum trail width is 4m.									
Actual dimensions of bladed trails may vary depending on topography.									
• The	e amount of bladed trail constructed will be kept to	a minimum.							
Short sections that become bladed trails where a non-bladed trail crosses a hump or ridge will be exempt from rehabilitation requirements provided that the soil disturbance limits in this SP are not exceeded.									
Rehabilitat	ion for bladed or excavated trails:								
Any bladed	l or excavated trails will be rehabilitated as follows:								
• De-	compact the trail, including removing woody debris	s that is conductin	g subsurface moist	ture					
	ce fill material that was sidecast on the excavated p								
	contour the slope								
	establish natural surface drainage								
 Re-establish natural surface drainage Place some woody debris over exposed mineral soil 									

G. SILVICULTURAL SYSTEMS

SILVICULTU	RAL SYSTEMS							
SU	SYSTEM / VARIANT / PHASE							
А	Clearcut with reserves silviculture system.							
SU	STAND STRUCTURE AND SITE CONDITION - COMMENTS							
А	Post-harvest stand structure will be even-aged with one age class.							
	Planted trees and natural regeneration will include CwFdLwPwHw (PyPISx)							
	Wildlife Tree Group Reserve Area (WTRA): totalling 4.3 ha							
	Retention Strategy							
	ave Tree Description :							
	• TU 1: (14.1 ha) Conventional harvest unit : retain 40-45 stems per hectare targeting Douglas fir, larch, hemlock, lodgepole pine in the >/= 40cm DBH classes. Distribute retention in dispersed individual stems.							
	• TU 2: (17.3 ha) Cable harvest unit: retain 35-40 stems per hectare from all species and DBH classes proportionally distributed in small groups.							
	• All: Retain all Western white pine and deciduous (trembling aspen, black cottonwood and paper birch) where operationally feasible and practicable. Retain western yew operationally feasible and practicable.							

LICENCE NO: FL A30171 BLK: 3 CP: 421 Mapsheet: 082K026 PAGE: 10 of 10 RUN DATE:

H. STOCKING REQUIREMENTS (As per DSE South Columbia Default Stocking Standards Version 1.0, April 1, 2018)

LICENCE #	СР	BLOCK	OPENING NUMBER	LOCATION
A30171	421	3	82K026	Greyhorse/Severid

H1	ECOLOG	LOGICAL INFORMATION												
SU	Net Are	ea	Zone	Subzone		Site Series (complex - %)			Elevation			Slope	Soil	
	(ha)				Phase			Min Ma		lax	Avg	position	Texture (0-30cm)	
А	30.8	8	ICH	mw	2	104 ⁹ 1	103 ¹	585	;	815	705	Lower/toe	SiL	
RATIONAL	E FOR STO	OCKING	G STANDARD FS	P ID SELECTION		<u> </u>					I			
	ARDS UNIT CHAN P ID #			IANGE FROM STANDARD PRACTICE				(COMMENT: (For example: Forest health (DRA) or Rocky site)				cky site)	
A: 1057474				N/A				-						
H2	STOCKIN	IG REO	UIREMENTS FO	OR SILVICULTURA	L SYSTEMS O	THER TI	HAN SINGLE	TREE SELE	CTION					
Standard unit Standards ID		dards ID	Regen Delay (years)			Free Grov	wing Early (yrs) Free Growing			Late (years)				
A 1057474			7			12				20				
Preferred Species			Acceptable Species Post			Post Spacin	ng Density (sph)				Max Coniferous (sph)			
Specie	es	Mi	n FG ht (m)	Species	Min FG h	t (m)	Min	700	Max	1800		10,000		
									Well S	paced [·]	Trees (ste	ms/ha)		
Cw ^{10,201} Fd ⁵	58 .			9,14,203	PI-2.0,		Target	Minimum pref&acc		Minimum preferred			Min Horizontal Inter- tree distance (m)	
CW ³¹ Fd	LW	Fd-1.4, Lw Pw-2.0 Cw- 1.0	Pl Hw Py ^{9,14,203} Sx ^{10,13}	Py,Hw,Sx 1.0	- [1200	700		600			2.0*		
					1.0				Height Relative to Competition (%)			on (%)		
												150		

** Early Free Growing has been left in for information purposes only. In RESULTS it is in the comments section only and does not preclude making FG declarations early.

Other Required Stocking Information/Footnotes :

9- suitable on warm aspects

10 - suitable on cool aspects

13- suitable at upper elevations

14 –suitable at lower elevations

31 - must use of blister rust resistant stock. See BC Journal of Ecosystems and Management 10(1): 97-100 for supplementary information.

58 – South Area – Fd limited to a max 50% of preferred and acceptable well-spaced stems in the IDFmw and all subzones of the ICH due to root rot. See Root Rot Handbook (2017, in press).

 $201-\mbox{Maximum}$ 50% of preferred and acceptable well-spaced trees

203- Recommended on sites for climate change adaptation

* - a reduced MITD of 4.3m may be used to facilitate planting superior microsites, when sites have: mechanical site preparation (mounding and disk trenching), been previously fill planted, or conditions where obstacle planting for snow creep is necessary. Reduced MITD applies to PLANTED TREES ONLY

BLK: 3

CP: 421

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RUN DATE

Н3	SITE PREPARATION							
TECH	TECHNIQUE (S) / LIMITING FACTORS							
•	Broadcast burn or Spot burn if needed within the NAR to reduce excessive slash cover. Low to Moderate intensity burn, impact rank 2 to 3.							
Stee	ep slopes may limit mechanical site prep options in TU2 – cable harvest.							
•	Pile, or pile and burn, slash accumulations on roadsides and landings, or within the NAR.							
•	Piling treatment during dry weather conditions or when soils not saturated.							
•	Burn piles in the spring or fall.							
•	Mechanical bunching (pile and burn) where feasible.							
•	Piles in the NAR may be left unburned in order to contribute to wildlife habitat and coarse woody debris values.							
•	Mechanical site preparation (e.g.: mounding, scarification) where necessary and feasible, combined with brush/slash piling, utilizing an excavator.							
•								

H4 PLANT	H4 PLANTING											
SU	Area (ha)	Regen. Method	Species	Age	Stock Type	Season	Stems/Ha	Total Stems				
A	30.8	Plant	Cw Fd Lw Pw (SxPIPy)	1+0	PSB 412A	Spring	1400-1600	43,960-50,240				

LIMITING FACTORS / COMMENTS:

- Fd limited to a maximum of 50% of preferred and acceptable well-spaced stems.
- Hw is an acceptable species, and moderate amounts of Hw natural regen exist within certain areas the block. Expect additional natural regeneration.
- Manage for a high diversity of planted trees as a climate change adaptation strategy. Increasing species diversity may help buffer the negative
 impacts of climate change, and make forests more resilient when faced with extreme weather events. This strategy is meant to reduce the forest
 health risks to future timber supply by providing a diversity of species should one or more become susceptible to pests or other damaging agents.
 Replanting these stands with a higher diversity of species, including species that are more adapted to hotter and drier growing conditions like Lw
 and Fd (Py), will promote a stand that is more likely to tolerate a warming climate.
- Microsite selection for Lw, and Fd (Py) should be concentrated to dry sites, with Cw(Sx) populating draws and cold air exposures.
- Limiting factors include high snowpack persisting late in the season relative to the elevation.
- Plant as soon as possible following harvesting or site prep operations. Note: a post-harvest assessment should be completed to assess the
 necessity of site preparation prior to planting. If site prep is needed, the person completing the assessment will generate a prescription
 surrounding the areas that are required and the methods to be employed.
- Anticipated Timing/Constraints: Treatment needs will be assessed through periodic walkthroughs and silviculture surveys.

H5 BRUSHING / STAND TENDING

TECHNIQUE (S) / LIMITING FACTORS

Current Brush Hazard: Low brush inside harvest area. In canopy openings created by forest health issues competitive species of brush have established such as maple and birch.

<u>Future Brush Hazard</u>: Moderate overall with potential for higher hazards. Timely crop establishment will be crucial in managing for brush hazard. Deciduous was noted as a component of nearby juvenile stands.

Brushing Methods: Should brushing become necessary, manual treatments are the preferred methods.

<u>Risks and Considerations</u>: Woody brushing or stand tending treatments must be carefully assessed due to pathogen ability to colonize wounds on stocking. <u>Anticipated Timing</u>: Treatment needs will be assessed through periodic walkthroughs and silviculture surveys. Treatment timing will be prescribed at the time of brush assessment.

I. ADMINISTRATION	
RPF SIGNATURE AND SEAL:	
RPF Name (Printed) I certify that I have reviewed this document and, while I did not personally supervise the work described, I have determined that this work has been done to the standards expected of a member of the Association of British Columbia Forest Professionals.	
Date:RPF #:	
	RPF Signature and Seal
SITE PLAN PREPARED BY: Tom Haukaas, RFT	MAJOR LICENSEE SIGNING AUTHORITY:
SITE PLAN ATTACHMENTS:	
☑ SP MAP(S)	
	Licence Holder Signing Authority Signature
	Licence Holder Signing Authority Name (Printed)
	Date:

Mapsheet: 082K026

PAGE: 12 of 10 RUN DATE:

LICENCE NO: FL A30171

BLK: 3

CP: 421

LICENCE NO: FL A30171	BLK: 3	CP: 421	Mapsheet: 082K026	PAGE: 13 of 10	RUN DATE:

Area Calculations	Standards Units							
	A				TOTAL HA	%		
HAZARD RATINGS:								
Compaction	High							
Soil Displacement	Moderate High (11-20)							
Surface Erosion	High (26-29)							
Forest Floor Displacement	High (19)							
Mass Wasting	Moderate (29)							
Harvest System	Ground based: 17.3 ha Cable: 14.1 ha							
TOTAL AREA	39.0				39.0			
						% WTP/RES		
WTRA	4.3				4.3	10.5		
NP	-				-	-		
OTHER Reserve	-				-	-		
						% Disturbance		
Proposed roads	5.9				5.9	14.4		
Existing roads								
Landings								
Total disturbance permanent access structures	5.9				5.9	14.4		
NET AREA TO BE REFORESTED	30.8				30.8			
Sensitive Soils (Y/N)	No					-		
Temporary Access Structures: Road, landing, excavated or bladed trails that will be rehabilitated (% of NAR).	5% (excavated/bladed trails)							
Max. Allowable dispersed Soil Disturbance (% of NAR by Standards Unit) as a result of harvesting, mechanical site preparation, or hazard abatement activities.	10%							

Rehabilitation/Deactivation measures: All landings and trails within the NAR are temporary and will be rehabilitated by decompacting, re-contouring, surface restoration, followed by planting.

Proposed Roads (permanent): Marblehead Spur = 1378.6m x 20m = 2.76 ha Spur 3-2 = 279.5m x 20m = 0.56 ha Severid South = 1310m x 20m = 2.62 ha

Existing Roads (permanent):

N/A

See Section F.4 for discussion of rehabilitation of excavated/bladed trails.