BCTS
BC Timber Sales

SP/HP MAP - AMENDMENT #1

BCTS TSL A95528
(LICENCEE & #)

BLOCK: 2 PRE: EK G34 1302
UBI: BF5LM
LOCATION: ROCKY CREEK

Map Reference: 082G.034
Air Photos:
Forest Region: Southern Interior
District: Rocky Mountain
TSA: Cranbrook
UTM Coordinate:

Zone	Easting		Northing
11	616518		5466941
Lat.	49° 20' 39" N	Long.	115° 23' 45" W

Mag. 15.4° E of T.N.
Date: Sep 01, 2021
Land District: Kootenay
Elevation range: 910 - 950m
Scale: 1:5,000
Drawn By: D.Michel

SP/HP Legend

- Subject Block
- Right of Way
- Riparian Reserve Zone
- Slope Area (>35%)

Management Zones
- MFZ
- RMZ
- SMZ
- WMZ

Harvest Method
- Cable
- Ground

Standard Unit
- 1
- 2
- Non Productive
- PAS
- Reserve - Other
- WTP
- WTRA

- P / E Permanent Landing; Proposed/Existing
- Culvert; Existing/Proposed
- Block GPS Station
- Road GPS Station
- B C Block Center
- Major Culvert
- HVS (W) Wildlife Feature -High Value Snag
- Road Permit
- Forest Service Road
- Existing Road
- Proposed Road
- Unknown Road
- Deactivated Road
- Skid Direction
- Yarding Direction

Adjacent Blocks (Planning Status, Block Status)
- PP and (Info or 196)
- PP and PROP
- PP and OPC
- WIP and (Info or 196)
- WIP and PROP
- WIP and OPC
- ADV
- HB
- LC
- RG
- GU
- FG
- Deferred

- Intermediate Contours
- Index Contours
- Fence
- Transmission Lines
- Pipeline
- Existing Trails
- Pipe Line
- Paved Road, Divided
- Gravel Road

- Slide
- Slope Break
- Gully, Draw
- Fence Line
- Stream - Unclassified
- Stream classified
- NCD/NVC
- Waterbody
- Wetland
- BEC Zone
- Inoperable
- Recreation Area
- WMA
- VRI Polygon
- Indian Reserve
- Woodlots
- National Park
- Provincial Park
- Protected Area
- Ecological Reserve

0 25 50 100 150 200 250 Meters

VAST RESOURCE SOLUTIONS

CR9921.06 Wardner; ECE#1; Upgrade; 4219m
CRR23576Sec2; New Short Term; 2020m
CRR23576Sec3; New Short Term; 683m
Road Permit
Forest Service Road

SU	Area	NAR	Silv System	Harvest Method	BEC/Site Series	Stocking Standard
1	9.53	9.53	CC/Res	SK- Ground Based	IDFdm2 101	1062276
PAS	0.72					
WTRA	3.14					
Reserve Other	0					
NP	0					
TAUP	13.4					

File: \\Client\P$\17.0034.00_BCTS Multiphase Development\002_Rocky Cr\A95528\mapping\MXD_Data\LRM\LRM_A95528_BK2_SPMap_Rev1_AMEND_01.mxd

Amendment #1

1.5 RIPARIAN ASSESSMENT

Block	Riparian I.D. and Class	RMA	SU	Width (m)	BA or SPH Retained	Comments (Indicate if in a Community Watershed)
2	Stream 1, Reach 7 (S4)	WTRA	-	30+ m	All	This reach is outside of the harvest area within a steep sided gully. The gully has been designated as WTRA. Where the harvest boundary comes within 30m of the reach, an RMZ is flagged inside the harvest boundary to ensure RMA distances are maintained. Between the flagged RMZ and harvest boundary, retain all windfirm trees (Fd, LW). A minimum of 10% of the pre-existing basal area must be left within the flagged RMZ.

Management Strategies:

Safety Highlights:

Dead snags of various height and diameter classes occur within the block. Some have been subject to armillaria root disease and have compromised root systems. Snags may fall suddenly as result of disturbance by machinery. Many snags have been flagged for retention as they have value to wildlife. They are to be retained where deemed safe to do so. All hazardous snags within 1.5 tree lengths of roads and decking areas are to be removed unless assessed as safe by a certified danger tree assessor.

Note that the existing access road adjacent to Lake Koocanusa is part of the TransCanada Trail Network. Expect possible public traffic and use especially during summer months. Signage indicating that active logging and/or hauling is taking place are to be posted along this route and signage indicating that active logging is taking place is to be placed at the entry of the block. Signage is to indicate radio frequencies in use and the name of the contractor and site foreman.

Leave Tree Specifications:

Table 1 – Layer 1 Reserve Timber[1]

SU	Selection Priority	Species	Size	Stems per Hectare to Retain			Distribution[2]			
				Target	Min	Max	S	G	I	R
1	1	Py	≥17.5cm dbh	All	All	All	X	X	X	
1	2	Lw/ Fd	≥30 cm dbh	35 (Py contributes to target)	25	40	X	X	X	
1	-	At/Ac/ Ep/ Py	N/A	All	N/A	N/A	X	X	X	
1	High Value Wildlife Trees	All	All	All (must be deemed safe to leave)	N/A	N/A	X	X	X	

Additional Requirements/ Comments:

1. Total conifer leave-tree target is 35sph (Min 25sph/ Max 40sph)
2. Selection Priority 1: Retain all Py ≥ 17.5cm dbh. These contribute to total conifer leave-tree target. Very few picked up in cruise.
3. Selection priority 2: Retain Lw and/or Fd ≥30 cm dbh to overall target of 35 sph. These reserve stems are to target the largest stems available. Where available and deemed safe with consideration of WCB requirements, leave-tree selection is to favor live trees with signs of internal decay (Wildlife Tree Class #2) in effort to meet best management practices for Williamson Sapsucker. If not available, leave live healthy trees. Select Lw over Fd where available.
4. The layout crew has identified several snags that have value to wildlife. They have been flagged with triple "wildlife tree patch" ribbon in the field. These are to be retained where safe to so. **Refer to TSL Schedule "A", Section 2.00 regarding Dangerous trees.**
5. Retain all deciduous trees. Very few observed during field work.
6. BCTS reserves the right to pre-mark reserve stems as per the above leave tree specifications.
7. Due to the stand structure leave tree voids < 1ha may exist post-harvest.

Wildlife Tree Class #2: Live/unhealthy trees with evidence of internal decay or growth deformities (including insect damage, conks, heart rot, broken tops etc.); dying trees

[1] Refer to *Appendix 1* for *Table of Reserve timber Abbreviations and Definitions*
[2] Distribution types: S: Single Tree, G: Group of trees, I: Irregularly distributed, R: Regularly distributed

Note: Safety is a priority when conducting operations near reserved timber. Refer to TSL Schedule "A", Section 2.00 regarding Dangerous trees.

Table 2- Other Reserved Timber

Non Merch

SU	Location	Species	Size	Stems/ha
1	Retain all good quality advanced understory, preferably in patches or clumps throughout the harvest area. Retain advanced regen, deciduous vegetation around all retained wildlife trees where possible.	Fd, Lw, Py	<17.5 cm dbh and >1.3m height	Up to 3 clumps/ha

Coarse Woody Debris

SU	Size	# per Hectare	Distribution				
			S	G	I	R	
1	≥ 2m in length and ≥ 7.5cm in diameter at one end	Minimum: 4	x	x	x		• This is the minimum required under the *Forest Planning and Practices Regulation*

Dead Trees to be stubbed (where Mechanical Falling is utilized)

SU							
1	All	>30 cm dbh	x	x	x		• 2 – 5 m stubbing Height • Target 3 sph, range 0 – 5sph

Harvest / Operational Constraints:

- Operate during conditions that prevent excessive soil disturbance. Log in dry or frozen conditions.
- Maintain natural drainage patterns during and at completion of harvest. Pull back and rehabilitate all temporary access structures following natural contours.
- This block is sensitive to encroachment by invasive species. Ensure that all equipment entering the site is inspected for invasive plant material and washed if material is found. Document inspections and actions taken.
- Exposed cutbanks of permanent constructed roads, new landings and deactivated/rehabbed areas are to be re-seeded with a suitable seed mix (as directed by a qualified professional otherwise Canada #1 Forage Mix or better) within 1 year of soil exposure to mitigate the spread of invasive plants and to limit soil erosion.

Kootenay Business Area Field Marking Standards

	Ribbon	Paint
Harvest Boundary	BCTS Block Boundary	
Falling Corners		FC#
WTRA Boundary	Reserve	
Reserve Boundary	Reserve	
Riparian Reserve Zone	Reserve	
Riparian Management Zone	Riparian Mgmt. Zone	
Management Zone	Management Zone	
Treatment Unit Boundary	Treatment Unit Boundary	
Reserve Trees		
Machine Free Zone	//// Machine Free Zone ////	
Cruising	Cruise Line	Plot Trees
Traverse Stations		
SP Plot Location		

	Ribbon	Paint
NCD & Stream Centers	Water Course	
Road P-Line		
Road Center Line	Road Centerline	
Landings	Landing	
Road Right of Way	R/W Boundary	
Road RP		
Culverts	Culvert	
Designated Crossing	Crossing	
Culvert RP Outside Right of Way		
Tail Holds / Guyline / Intermediate Supports		
Skid Trail / Back Spar Trail / Forwarding Trail	/ / / / / / Trail / / / / / /	
Recce Ribbon / D-Line / Skyline Roads	/ / / / / / / / / / / / / / /	

I certify that the work described herein fulfills standards expected of a member of the Association of British Columbia Forest Professionals, and that I did personally supervise the work.

Chris Lovesey, RPF # 4803

RPF PRINTED NAME

September 2, 2021

DATE SIGNED

RPF'S SIGNATURE and SEAL

