

1.5 RIPARIAN ASSESSMENT						
Block	Riparian I.D. and Class	RMA	SU	Width (m)	SPH Retained	Comments (Indicate if in a Community Watershed)
2	S4-2-2	RMZ	1	30	-	S4-2-2 and the majority of its RMZ are reserved in WTRA4. This reserve accounts for over 50%retention which exceeds minimum RMZ targets. This development is not located in a Community Watershed.
2	S6-2-1	RMZ	1	20	-	S6-2-1and its entire RMZ is located outside of the block. This development is not located in a Community Watershed.
2	NCD-2-1, NCD-2-2, NCD-2-3	N/A	1	N/A	-	NCD-2-1 is located within the ground-based harvest area has been ribboned with a 5m MFZ. NCD-2-2 and NCD-2-3 are located outside of the harvest area. See Table 2 Below for additional information. This development is not located in a Community Watershed.
Management Strategies: See Non-Merchantable Section and the Harvest /Operational Constraints Section Below						

Safety Highlights:

In addition to the standard safety hazards and risks associated with all aspects of forest management, the following safety hazard(s) apply to this block and must be enforced and practiced:

1. Exposed cobbles and boulders
2. Steep slopes >35% in ground-based harvest areas.

Remedial Action

1. Personnel will be informed of this hazard.
2. Personnel will be informed of this hazard. These areas are displayed on the HP map.

Leave Tree Specifications:

Table 1. - Layer 1 Reserved Timber ¹											
Block	HU	Selection Priority	Species	Size	Stems per Hectare			Distribution ²			
					Target	Minimum	Maximum	S	G	I	R
2	1	<ul style="list-style-type: none">Largest Diameter StemsMost WindfirmBroadleaf Species	Lw, Py, Fd, Pw, At, Act, Ep	Lw, Py, Fd >/= 40cm dbh Pw, At, Act, Ep >/= 17.5cm dbh	10	1	15	√	√	√	
¹ Refer to <i>Appendix I</i> for <i>Table of Reserve Timber Abbreviations and Definitions</i> ² <i>Distribution Types: S: Single Trees, G: Groups of Trees, I: Irregularly Distributed, R: Regularly Distributed</i>											
Note: Safety is a priority when conducting operations near reserved timber. Refer to TSL Schedule “A”, Section 2.00 regarding Dangerous Trees.											
Table2. – Other Reserved Timber ¹											
Non-Merchantable											
Block	HU	Location(s)	Species	Size	Stems per Hectare						
					Target			Minimum			
2	1	None	None	None	-			-			
<u>Additional Requirements/Notes:</u> Remove (pile and burn) non-merch timber to cut down on surface fuels as a fire mitigation strategy post-harvest.											
Dead Trees to be Stubbed (where Mechanical Falling is utilized)											
Block	HU	Species	Size	Stubbing Height	Stems per Hectare			Distribution ²			
					Target	Minimum	Maximum	S	G	I	R
2	1	All	>/=35cmdbh	3-5m	7	5	10	√	√	√	
Additional Requirements: 1. Stub trees must not pose a hazard to worker safety. 2. In selecting dead trees for stubbing, give selection priority to trees with signs of wildlife use (e.g. cavity nests, holes, and dens).											
Coarse Woody Debris											
Block	HU	Species	Size	M³ per Hectare			Distribution ²				
				Target	Minimum		S	G	I	R	
2	1	All	Manage for the minimum allowable level of CWD: 4 logs per hectare, each being at least 2 metres in length and at least 7.5cm in diameter at one end.	4	1		√	√	√		
¹ Refer to <i>Appendix I</i> for <i>Table of Reserve Timber Abbreviations and Definitions</i> ² <i>Distribution Types: S: Single Stems/Logs, G: Groups of Stems/Logs, I: Irregularly Distributed, R: Regularly Distributed</i>											
Note: Manage CWD to low levels as a method of fuel removal: Preference is to retain logs with signs of advanced decay, bark off, and those buried partly in the organic soil layer. Logs are to be left flush to the ground, all limbs/branches removed, and a minimum of 10 m apart. Safety is a priority when conducting operations near reserved timber. Refer to TSL Schedule “A”, Section 2.00 regarding Dangerous Trees. As a reference 1 large telephone pole roughly equals 1m³.											

Harvest / Operational Constraints:

General Recommendations:

1. All temporary access structures must be fully rehabilitated upon the completion of harvesting.
2. Bladed or Excavated trails may be required for safety in areas that may require adverse skidding and in areas with steep slopes.
3. Excavated or bladed trail construction should be minimized as practical, and avoided in areas of seepage or where shallow subsurface runoff is likely to be intercepted. All trails should be fully rehabilitated upon completion of use, ideally prior to the next spring freshet. If any trails are to overwinter then additional precautions should be taken including pulling back all watercourse crossings and any potentially unstable fill slopes, and installing frequent cross ditches in order to limit the potential for redirected runoff.
4. Harvesting and road building activities should be modified or suspended when there is abundant hill slope runoff occurring at the site, which is likely to occur during times such as spring break-up or from prolonged heavy precipitation. This is intended to reduce the likelihood of concentrated or redirected drainage as well as erosion and sediment delivery.
5. Machine use should be limited to areas where excessive scour, rutting, or compaction is avoidable. This would generally restrict machine use from areas of moderately steep or steeper slopes as well as any localized areas of wet, soft, or very loose soils. Some modified machine use (e.g. hoe chucking) may be possible in these areas if excessive disturbance is avoidable.
6. All road and trail drainage systems should be maintained and kept clear of debris during and subsequent to harvesting operations, including at and downslope of cross drain discharge locations.
7. All natural drainage patterns (including NCD-1-1 as well as dry swales and gullies) should be maintained and left free of excess debris (slash or soil) that could result in a redirection of seasonal surface runoff.

TIMING RESTRICTION:

As requested by the Penticton Indian Band: Restrict timber harvesting to Winter Harvest only.

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.

RPF’S SIGNATURE and SEAL

RPF PRINTED NAME

Russ Fountain

DATE SIGNED

January 31, 2021