



SP/HP MAP

BCTS TSL TA0906

BLOCK: 7 PRE: EK K10 1330

UBI: BF798

LOCATION: DOCTOR CREEK

Map Reference: 082J.001 Mag. 15.4° E of T.N.
Air Photos: Date: Aug 02, 2021
Forest Region: Southern Interior Land District: Kootenay
District: Rocky Mountain Elevation range: 1220 - 1520m
TSA: Invermere Scale: 1:10,000
UTM Coordinate: Drawn By: D.Michel

Zone	Easting	Northing
11	569398	5548551
Lat.	50° 05' 07" N	Long. 116° 01' 48" W

SP/HP Legend

- Subject Block

Right of Way

Management Zones

MFZ

RMZ

SMZ

WMZ

Harvest Method

Cable

Ground

Standard Unit

1

2

3

Non Productive

PAS

Reserve - Other

WTP

WTRA

P / E Permanent Landing; Proposed/Existing

Culvert; Existing/Proposed

Block GPS Station

Road GPS Station

BC Block Center

Major Culvert

Road Permit

Forest Service Road

Existing Road

Proposed Road

Unknown Road

Deactivated Road

Skid Trail

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

Paved Road, Divided

Gravel Road

Area of Concern

Reach Break

Pipeline Crossing

Ecology Plot

Cattleguard

Gate

Skid Direction

Yarding Direction

Gully, Draw

Cliff

Designated Crossing

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

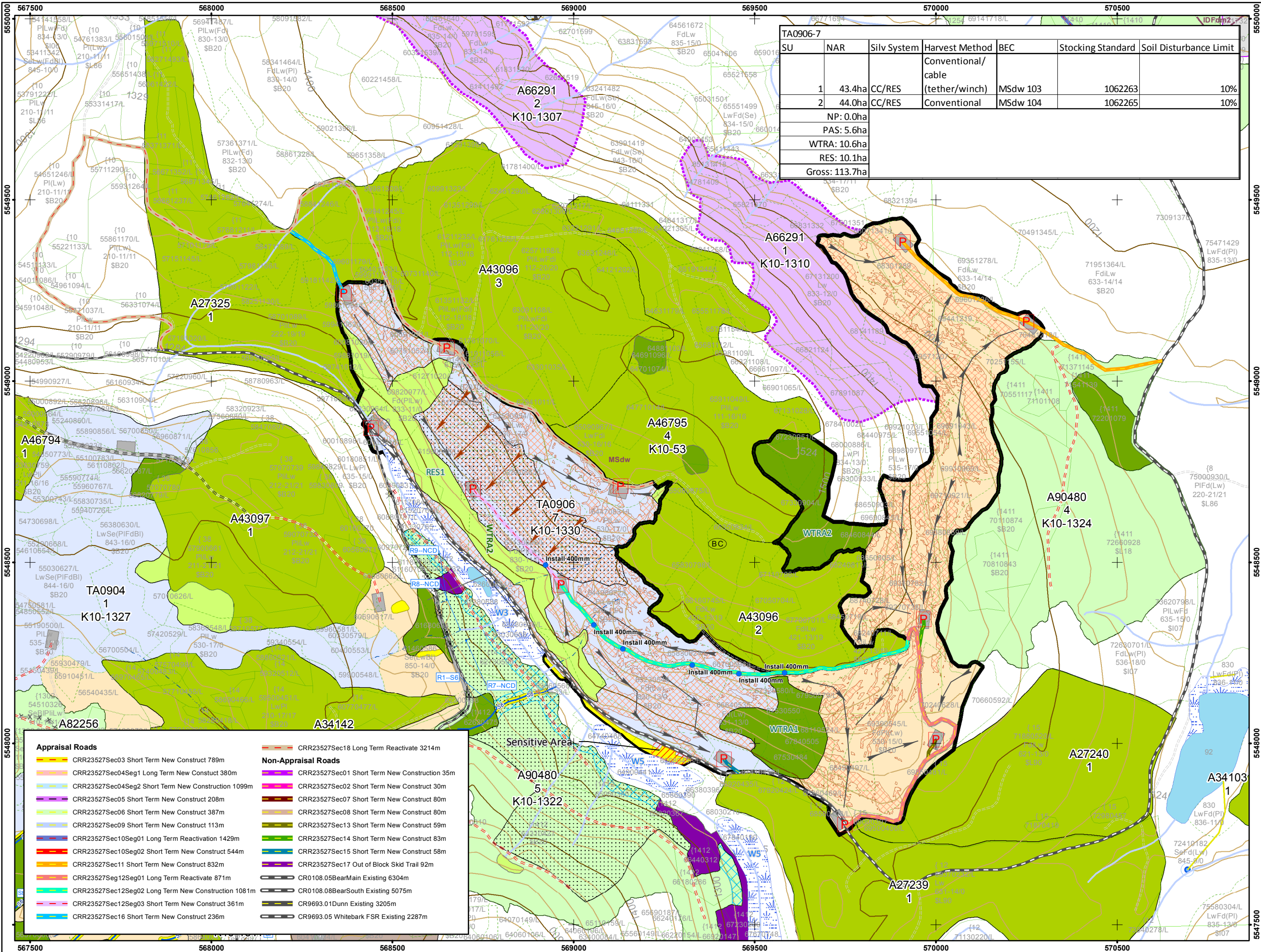
Provincial Park

Protected Area

Ecological Reserve

Fish Barrier

0 50 100 200 300 400 Meters



RIPARIAN ASSESSMENT

Block	Riparian I.D. and Class	RMA	SU	Width (m)	BA or SPH Retained	Comments (Indicate if in a Community Watershed)
7	W3	30m RMZ	1		Minimal	The RMA of both wetlands have been impacted by wildfire (Crown Fire). 95-100% mortality has occurred or is anticipated. As the RMZ of both wetlands is adjacent to the Bear Main, minimal retention is prescribed as to address fire-damaged trees that pose a hazard to workers and road users. To address hazard trees, retention within the RMZ may be less than 10% of the pre-harvest stems s required by the FSP. Alternate levels of retention are permissible provided sound rationale is provided by a QRP. Tree removal within the RRZ is permissible when to address a safety hazard. Due to the minimal retention to be left, the RMZ and RRZ have not been flagged in the field.
	W5	40m RMZ, 10m RRZ				Retain any green topped Lw or Fd encountered adjacent to the wetlands if structurally sound and roots are greater than 50% intact.
A variable width machine free zone has been flagged adjacent to the wetlands to limit machine-traffic. Do not place any slash piles within the MFZ.						

Management Strategies:
Monitor for sedimentation entering streams and take corrective action where required.

Safety Highlights:

Fire Damaged Stands: Block has been damaged by wildfire. Trees have been structurally compromised. Fire damaged trees pose high risk of tree-fall due to damaged root systems. Increasing wind speeds elevate the risk of sudden tree fall posing a danger to workers and machinery. In areas of greater fire severity, trees may suddenly break due to burnt out boles, damaged branches creating widowmakers/overhead hazards. Dangers trees must be removed a safe distance from all landings/decking areas where they cannot strike workers.

Steep Terrain: A portion of SU1 is planned for tether/ winch-assist systems where slopes exceed 50%. Complete steep slope hazard assessments as required by WCB prior to commencing work and follow all safety protocols in place for winch-assist/ tether operations.

Gullied terrain: Dry gullies are present in SU1 within the harvest unit planned for tether/winch assist systems. Operators must exercise caution when working around gullies to avoid machine upset.

Boulders: Large boulders may become dislodged during operations and present a hazard to workers and vehicles/machinery working downslope.

Windthrow: Areas of heavier windthrow may be present in the block.

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- Cable	N/A	N/A	N/A		No Reserves – Cable Harvest						
1	1 2	Lw Fd	≥25cm dbh	5	0	10	X	X	X		
2	1 2	Lw Fd	≥25cm dbh	15	0	30	X	X	X		
1 & 2	1 2	Lw Fd	≥25cm dbh	All Existing		5	X	X	X		
1 & 2	1	At/Ep	≥25cm dbh	All Existing			X	X	X		

Additional Requirements/ Comments:

1.

Minimum is to be left only where leave-trees of identified species, size class, and structural integrity do not exist within areas of the SU. Leave as many trees meeting the retention requirements as available up to maximum amount.

2.

The above cutspecs include trees that are dead or alive, with selection preference to be given to live trees (green tops/ minor bark char).

3.

Lw/Fd ≥45cm dbh that are retained will contribute to the targets of the other Lw/Fd leave objectives.

4.

Leave all Lw/Fd ≥45cm dbh where encountered, live or dead provided the trees are structurally sound and safe to do so. It is anticipated that there will be minimal retention of trees in this diameter class due to the lack of presence in the preharvest stand.

5.

There are no reserve trees planned for the portion of SU1 that is planned for Cable Harvest.

6.

Trees that do not meet utilization standards for sawlog or pulp due to large defect are to be retained onsite where safe to leave and not posing a safety hazard. If felled as result of presenting a safety hazard, retain onsite as large woody debris.

7.

All stems retained must be structurally sound, have >50% of the root system intact and not present a hazard to crews on the ground.

8.

Voids >1ha may exist post-harvest dependent on pre-existing stand structure and available leave-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			
1,2	Where possible, retain clusters of green advanced regen	Fd, Lw, Sx, Bl	>1.3m height	- up to 3 clusters/ha			

Coarse Woody Debris							
SU	Size	# per Hectare	Distribution				• This is the minimum required as per the 2017-2022 FSP for MSdw
1,2,	Min 2m length (≥5m m if available) Min 20cm diameter at one end Target larger logs where they occur and are not suited as sawtimber. Avoid leaving green Sx or Fd logs as CWD due to susceptibility to bark beetles.	Min 4 logs/ha 1.24m3/ha	S	G	I	R	
			x	x	x		

Dead Trees to be stubbed (where Mechanical Falling is utilized)							
		No stubbing prescribed					

Harvest / Operational Constraints:

➤

Operate during conditions that prevent excessive soil disturbance. Avoid harvesting during periods of excessive soil moisture such as spring freshet and after heavy rainfall.

➤

Maintain natural drainage patterns during and at completion of harvest. At completion of operations all road sections must be left in a hydrologically stable state.

➤

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.

➤

All landings and rehabbed/deactivated areas are to be seeded after completion of hazard abatement and/or rehabilitation/deactivation activities and no longer than 1 year following soil exposure. .

➤

No soil disturbance must occur within the sensitive area identified on the map, Area must be clear cut.

➤

Slash is not to be placed within the MFZ adjacent to the wetlands.

➤

Where available and operationally feasible, leave green alder and/or surviving advanced regen along the edges of roads to provide screening for wildlife. Avoid roadside decking where such screening exists.

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

August 6, 2021

DATE SIGNED

RPF'S SIGNATURE and SEAL



Chris Lovesey