

SUPPORT DOCUMENT

LICENCE #	LOCATION	OPERATING PLAN #	BLOCK #	BLOCK PRE #	ROAD
TA0547	Peavine	20	1	G41-1500	CRPL TA0547 Sec. 1
			1	G41-1500	CRPL TA0547 Sec. 2

1. ASSESSMENT INFORMATION

1(a). VISUAL IMPACT ASSESSMENT
<p>The LRDW visual landscape inventory (April 1, 2004) indicates that the proposed development overlaps on visual sensitivity unit with an established visual quality objective of partial retention.</p> <p>A preliminary visual assessment of TA0547 using Google Earth found that the proposed development was not visible from government viewing points because of trees adjacent to Highway 3. The development will not require a full VIA.</p>

1(b). PEST INCIDENCE SURVEY
<p>Pest Specific Comments:</p> <p>IBM - Mountain Pine Beetle. No infestations of any level (current & red) were reported during field development activities. All mature lodgepole pine within the harvest area will be harvested to minimize the spread of IBM.</p> <p>DMP/DML – Dwarf Mistletoe (pine/larch). DML was observed on western larch and was assessed a Hawksworth rating of 5/6. DML risk is moderate for forest cover types less than age class 8. DML propagating from this block is not expected to have adverse impacts on surrounding blocks and stems because the age classes are below 8.</p> <p>Forest Health Comments:</p> <p>The Cranbrook TSA Bark Beetle Management Strategy (2015) lists Beetle Management Unit C30 as having a “Suppression” strategy for Mountain Pine Beetle and Douglas Fir Beetle, and a “Holding” strategy for Spruce Beetle. The development is consistent with standard mitigation measures for bark beetle control.</p>

1(c). FIRST NATIONS STRENGTH OF CLAIM ASSESSMENT
<p>The Rocky Mountain Resource District follows the Strategic Engagement Agreement (SEA).</p>

1(d). CULTURAL HERITAGE ASSESSMENT
<p>The Rocky Mountain Forest Stewardship Plan, Operating Plan #20 was referred to First Nations; no traditional use or cultural heritage values were identified for the proposed development.</p> <p>Protection of any identified cultural heritage site from disturbance or destruction is required under the Heritage Conservation Act. Forest management practices will cease and the Timber Sales Manager or his/her designate will be immediately notified if significant cultural or archaeological resource features are discovered during operations.</p>

1(e). ARCHAEOLOGICAL OVERVIEW / IMPACT ASSESSMENT
<p>The development does not overlap any Archaeological Sites. An Archaeological Impact Assessment (AIA) is not required.</p>

1(f). TERRAIN STABILITY / AVALANCHE ASSESSMENT
<p>No steep areas of concern (e.g. flat over steep) or indicators of slope instability were reported for the proposed development. No areas of the block are mapped as unstable or potential unstable. See Terrain Stability Assessments Decision & Documentation Tool for details.</p>

1(g). RIPARIAN ASSESSMENT
<p>R1/S6 is located in the southwest corner of the block and is buffered by a 7m machine free zone to protect stream structure, function, and habitat. As per FSP #601 Section 5.3.1.5., all stream Riparian Management Areas (RMAs) must have some level of retention unless otherwise specified and a rationale is provided. Required retention within S6 RMZs will be met with the Leave Tree Specifications for this block, thereby meeting the intent of FSP requirements.</p>

1(h). SOIL ASSESSMENT								
HAZARD RATINGS					SOIL CHARACTERISTICS			
Block #	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	1	H	H	M	NA	N/A	NA	N/A
Comments:								

1(i). WINDTHROW ASSESSMENT
<p>Windthrow hazard class was assessed as medium. Establishing block boundaries along forest cover type lines and slope breaks while reserving wind firm species where practicable have reduced the post-harvest windthrow hazard.</p>

1(j). WATERSHED / HYDROLOGICAL ASSESSMENT
<p>The proposed development is not located within a community watershed. There is no hydrological assessment required for the proposed development.</p>

1(k). WILDLIFE ASSESSMENT

Ungulate Winter Range Government Action Regulation Order u-4-006 applies to the development. The block is mapped as Managed Forest (Dry). There is currently a 1545.8ha and 1727.2ha surplus for mature cover and early seral categories, respectively, in the Managed Forest Dry habitat type. The development is consistent with UWR gar orders.

Block 1 overlaps Migratory Bird Risk Ranking polygons (likelihood of finding a nest) of Rank 1 and 4. To conform to Migratory Bird Strategies for Rank 4 polygons, the following Best Management Practices (BMP's) with Degree of Protection (DoP) Rank 2 will be applied to the development as per the harvest plans:

1. Retention of individual trees, snags, and creation of stub trees suitable for cavity nesting bird species (leave trees and stub trees will be retained);
2. Avoid high value features and habitats during block design phase (e.g. create reserve areas where there are a high number of snags suitable for cavity nesters).

The Migratory Bird Convention Act (MBCA) of Canada and its regulations protect migratory birds and prohibit the disturbance or destruction of migratory bird nests and eggs in Canada. Section 34 of the BC Wildlife Act makes it an offense to injure, molest or destroy a bird or its egg, an occupied nest (with bird or eggs), or the nest of an eagle, peregrine falcon, gyrfalcon, osprey, heron or burrowing owl.

There are no wildlife habitat areas associated with the block.

1(l). FISHERIES ASSESSMENT

The proposed development is not within a fisheries sensitive watershed.

1(m). SPECIES AT RISK ASSESSMENT

A Species at Risk (SAR) inventory was conducted with the database available from the BC Conservation Data Centre (CDC), and search results identified the FDU as potential habitat for one red-listed species: the American badger (*Taxidea taxus*). Information sheets for this species are included within the site plan package. If Badgers are encountered during harvesting activities, consult with a timber sales manager, or his/her designate, for further guidance before proceeding further with operations.

1(n). OTHER ASSESSMENTS

There are no other assessments.

2. RESERVE / RETENTION INFORMATION

2(a). WTRAs (Inside or attributed to the block)

Bloc	I.D.#	Area	Inventory Label	Description
1	WTRA#1	7.5	LwFdi 431-18/18 L97	Approximately 100SPH and has desirable open forest structure.
1	WTRA#2	2.2	PLwFd 625-0/13 I98	Located on the knoll of a hill that already has desirable open forest structure. South slope of knoll is rocky, which would pose an operational concern.

2(b). Group WTRA Calculations (To be retained on the first block of the licence only)

(Double-click on Excel spreadsheet below to enter data)

Block #	Total Block Area* (Ha.)	Total WTRA Area (Ha.)	WTRA %of Block Area
1	82.8	9.7	11.7%
TOTAL (all Blocks):	82.8	9.7	11.7%

Green Cells Auto-Calculate

Comments: (e.g., How dispersed retention contributes to WTRA%, if applicable, etc.)

Dispersed retention is not included in the WTRA% calculation.

* Note:

- 1) Arrow & Boundary Field Teams:
Total Block Area = NAR+PAS+NP+Reserves (but not including WTRA area)
- 2) Kootenay Lake & East Kootenay Field Teams:
Total Block Area = NAR+PAS+NP+Reserves (including WTRA area)

3. OTHER SUPPORTING INFORMATION

3(a). HLP / FSP CONSIDERATIONS
Range Comments:
<p>The proposed block is located in the Peavine Range Unit and is encompassed by active range tenure RAN075121. One range improvement feature (fenceline) was identified following East Peavine FSR on the east side of the road (See SP/HP map). Operations are not expected to impact the fence. No natural range barriers were identified through the FSP advertising and referral process.</p> <p>The Licensee should coordinate their activities with the range tenure holder, and will be responsible to repair any introduced damages to the fencelines concurrent with operations, or by the request of the Timber Sales Manager or his/her designate.</p>
Recreation Comments:
<p>There are no recreation features associated with the proposed development.</p>
Invasive Species Comments:
<p>A review of the invasive plants provincial inventory database and mapping system was conducted; infestations of common tansy, scentless chamomile, spotted knapweed, yellow toadflax (FRPA invasive plants), as well as tall hawkweed, yellow devil hawkweed, and wormwood have been reported within or immediately adjacent to the proposed block. Bull thistle was observed within the immediate area of the blocks or roads during field development activities. See the Invasive Plant map and documentation for more information.</p> <p>Measures to be carried out to prevent the introduction or spread of invasive plants, as required by the Timber Sales Manager:</p> <p>1) Vehicles, mechanized equipment, culverts, bridges and cattle-guards are to be inspected for the presence of soil or plant material, including documentation on inspection forms, prior to being transported to or from work sites and, if present, plant and soil materials are to be removed.</p> <p>2) To reduce the available seedbed for invasive plants:</p> <p>a) grass seed exposed mineral soils on cut and fill slopes of new roads and trails during the first available spring or fall and not more than 12 months following construction.</p> <p>b) grass seed exposed soils on all new landings and rehabilitated areas during the first available spring or fall and not more than 12 months following the time of mineral soil exposure, except if the rehabilitated areas are to be revegetated through the planting of trees.</p> <p>3) If utilizing a dry grass seeding method, seed shall be applied at a rate of 30 to 50 kilograms per hectare.</p> <p>4) Grass seeding will utilize high quality seed (a mix recommended by a MFLNRO range specialist, if available; otherwise Canada Common #1 Forage mix or better grade) to ensure that the introduction of invasive plant seed is minimized.</p> <p>5) Invasive plant infestations located in cut-blocks will be recorded in Site Plans or Support Documents and monitored and reported on during post-harvest surveys. Personnel conducting post-harvest surveys will be required to identify and report new invasive plant infestations observed during surveys.</p> <p>6) Report new invasive plant infestations to the Timber Sales Manager or his/her designate.</p>
Guide Outfitters / Trappers Comments
<p>No Registered Guide Outfitter licenses overlap the development area.</p> <p>Trapline Area Identifier TR0405T002 overlaps the southeastern corner of the block (~3ha), while Trapline Area 2188757 overlaps the rest of the block.</p>
Other Resources Comments
<p>Resource tenure holders were contacted through the FSP advertising and referral process, and no issues were identified regarding the proposed development.</p>

3(b). ADDITIONAL COMMENTS
None.

4. ADMINISTRATION

☒ ORIGINAL	☐ AMENDMENT#	
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RPF PRINTED NAME	RPF SIGNATURE and SEAL
Scott Blissett, RPF- #3318	
DATE SIGNED	
June 2, 2020	
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 standards acceptable of a Registered Professional Forester.	