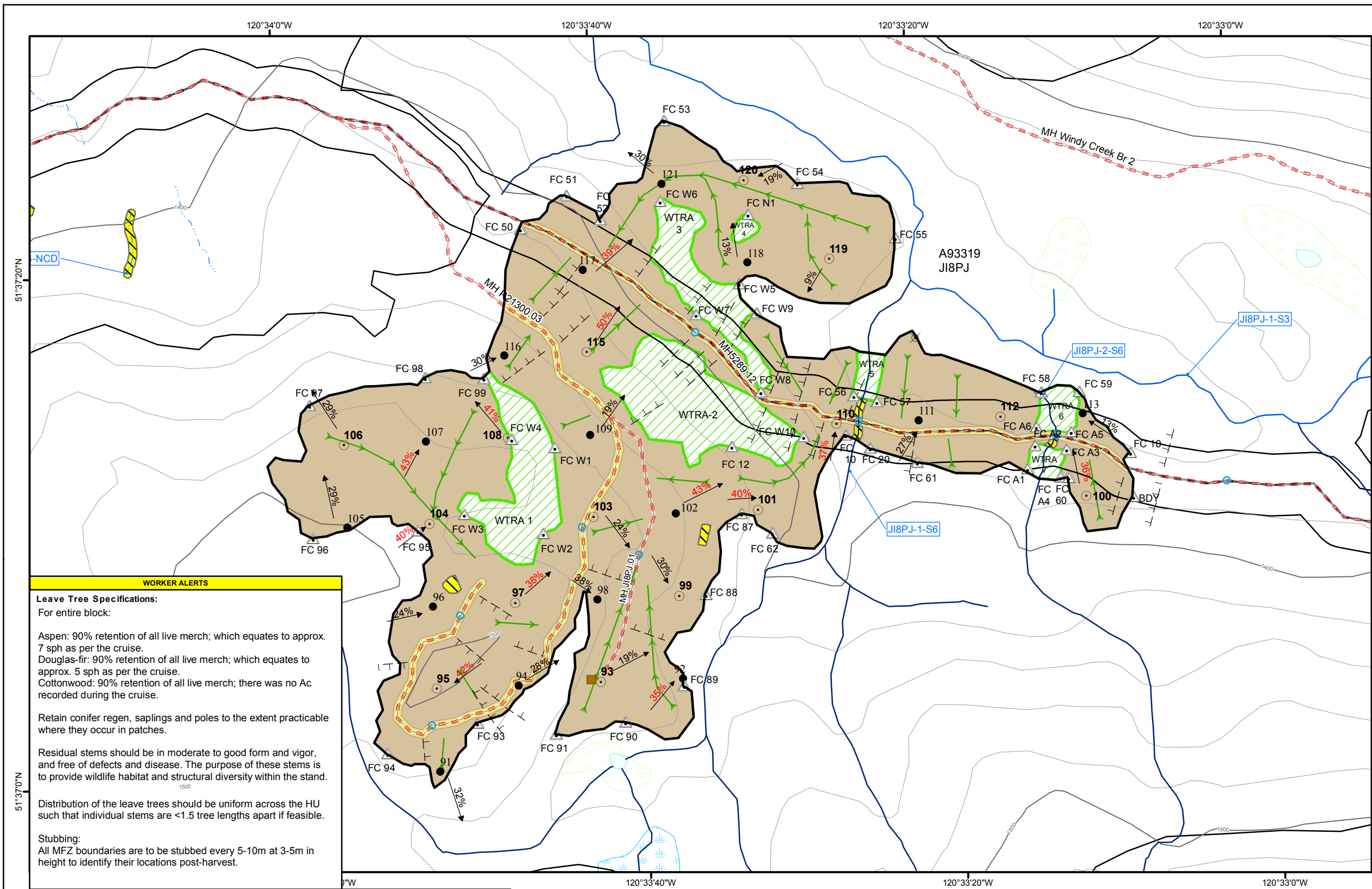




TSL A93319 J18PJ HARVEST PLAN

SAFETY

- Overhead hazards – snags and dead/broken tree tops.
- Moderate blowdown throughout the block.
- Slopes >35% exist within the block. See block map for locations.

ARCHAEOLOGICAL / CULTURAL HERITAGE

- If a previously unidentified affected Cultural Heritage Resource is encountered during harvesting, road construction or mechanical site preparation, operations are to cease to the extent necessary to protect the affected cultural heritage resource until a Cultural Heritage Resource Evaluation can be carried out.

LEAVE TREES AND BIODIVERSITY

For entire block:

- Aspen: 90% retention of all merch; which equates to approx. 7 sph as per the cruise.
- Douglas-fir: 90% retention of all merch; which equates to approx. 5 sph as per the cruise.
- Cottonwood: 90% retention of all merch; there was no Ac recorded during the cruise.
- Retain conifer regen, saplings and poles to the extent practicable where they occur in patches.
- Residual stems should be in moderate to good form and vigor, and free of defects and disease.
- Distribution of the leave trees should be uniform across the HU such that individual stems are <1.5 tree lengths apart if feasible.

STUBBING:

- All MfZ boundaries are to be stubbed every 5-10m at 3-5m in height to identify their locations post-harvest.

SLOPES

- Slopes within the block range from 0-40%, with an average of 20%. A few short pitches up to 50% were noted in areas of the block – see block map for locations.

COARSE WOODY DEBRIS

- The post-harvest target for Coarse Woody Debris is 10m³/ha.
- Non-merchantable log grades (firmwood rejects and some dry grade 4) will be left on site. Reserved stems will contribute to future CWD and any non-insect infested reserve trees that blow down will be left for coarse woody debris.
- The licensee must retain a minimum of 4 full length logs per hectare having a minimum dbh of 7.5cm. Efforts will be made to ensure these logs are not broken at time of harvesting. Logs may consist of a variety of species and shall be evenly distributed across the cutblock.

SOILS

- Avoid skidding across depressional areas when wet, recommend a random skidding pattern.
- The licensee is responsible for ensuring the maximum soil disturbance limits (10% of the NAR).
- All access structures will be managed to ensure natural drainage patterns are maintained and erosion measures are installed prior to spring freshet.

RIPARIAN FEATURES

- Operational activities will be conducted to ensure that natural surface drainage patterns are maintained.

MFZ = Machine Free Zone / RRZ = Riparian Reserve Zone / RMZ = Riparian Management Zone				
Riparian I.D. and Class.	RMZ	WIDTH (m)	Comments (Indicate if in a community watershed)	
J18PJ-1-S6	RMZ	20	This feature occurs within the eastern portion of the block. The majority of the stream and its RMZ are encompassed within WTRA 5. The short section of stream within the harvest area has been buffered with a 5m MFZ. Stub the MFZ boundary every 5-10m at 3-5m in height. Any RMZ overlap within the harvest area is to be treated the same as the remainder of the SU.	
J18PJ-2-S6	RMZ	20	This feature occurs within the eastern portion of the block. The majority of the stream and its RMZ are encompassed within WTRAS 6 & 7. The short section of stream within the harvest area has been buffered with a 5m MFZ. Stub the MFZ boundary every 5-10m at 3-5m in height. Any RMZ overlap within the harvest area is to be treated the same as the remainder of the SU.	
J18PJ-1-S3	RRZ	20.0	This classified stream feature occurs north of the harvest block. The boundary has been placed >/(=25m (averaging 50m) away from the stream edge, therefore the total RRZ and a portion of the RMZ occurs outside the harvest area. No additional management strategies are required.	
	RMZ	20.0		

FOREST HEALTH

- MPB has killed all of the PI within the stand; PI makes up a moderate component of the stand.
- Spruce budworm has impacted a large component of the balsam regen.

WILDLIFE

- *Migratory Birds* - If a previously unidentified migratory bird nest is encountered during harvesting, road construction, or a silviculture activity associated with this Site Plan, the Timber Sales Manager (TSM), will require that the operations cease to the extent necessary to protect the affected migratory bird nest until alternative BMP's can be implemented to minimize or prevent the risk of incidental take.

MINERAL

- This block is located within known Mineral Claims Title # ID 1061069 and 1034290. If any claim posts, monuments, drill sites or core boxes encountered they are to be retained from harvesting. None of these features were identified during field work.

DEACTIVATION/REHABILITATION

- Temporary Access should be rehabilitated upon harvest completion, or at least prior to the spring freshet.
- Refer to Road Deactivation map.

***This is a summary of the Site Plan/Harvest Plan and does not replace the full documents. Please refer to the full documents for complete details.**