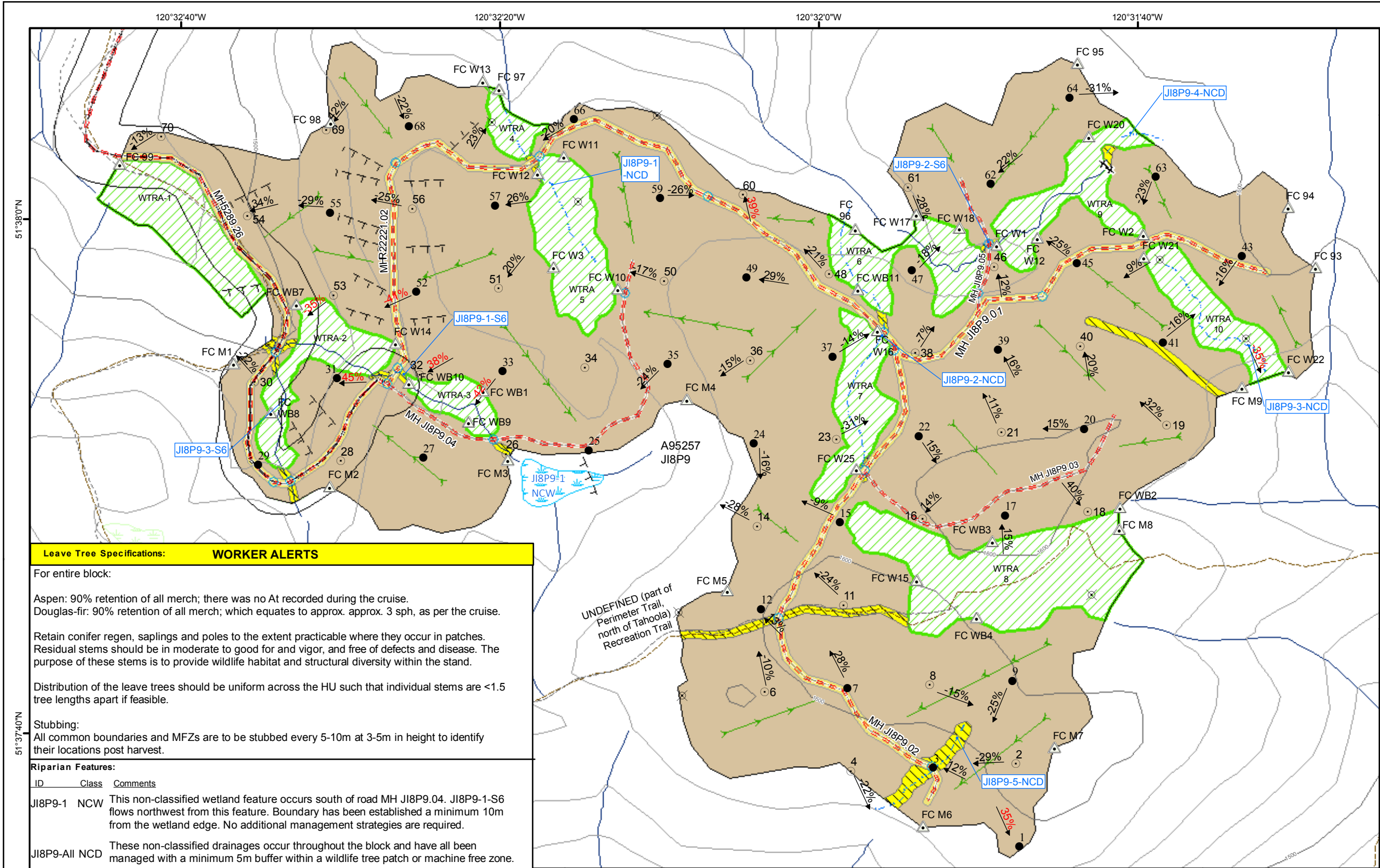




Leave Tree Specifications:

WORKER ALERTS

For entire block:

Aspen: 90% retention of all merch; there was no At recorded during the cruise.
Douglas-fir: 90% retention of all merch; which equates to approx. approx. 3 sph, as per 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 for and vigor, and free of defects and disease. The purpose of these stems is to provide wildlife habitat and structural diversity within the stand.

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

Riparian Features:

ID	Class	Comments
JI8P9-1	NCW	This non-classified wetland feature occurs south of road MH JI8P9.04. JI8P9-1-S6 flows northwest from this feature. Boundary has been established a minimum 10m from the wetland edge. No additional management strategies are required.
JI8P9-All	NCD	These non-classified drainages occur throughout the block and have all been managed with a minimum 5m buffer within a wildlife tree patch or machine free zone. JI8P9-1-NCD, JI8P9-2-NCD, JI8P9-3-NCD and JI8P9-4-NCD have been encompassed within proposed WTRAs 4 & 5, 6 & 7, 10, and 9, respectively. The WTRA boundary was hung a minimum 5m from the drainage on either side. Proposed road MH JI8P9.01 crosses through NCDs 1 & 2 and a 500mm x 10m culvert has been prescribed at each crossing. JI8P9-5-NCD occurs within the southeastern portion of the block. This feature was managed using machine free zone ribbon. Stub the MFZ at 3-5m in height every 5-10m to identify its location post-harvest. Proposed road MH JI8P9.02 crosses NCDs 2 & 5 and a 500mm x 10m culvert has been prescribed at each crossing.
JI8P9-All	S6	Various S6 classified stream channels occur throughout the proposed development. All streams have been managed with a minimum 5m buffer and encompassed within proposed WTRAs: JI8P9-1-S6 - WTRA 2 & 3, JI8P9-2-S6 - WTRA 6 & 9, JI8P9-3-S6 - WTRA 2 Where proposed in-block and FSR roads cross the stream channels, a 600mm x 10m culvert has been prescribed. Any RMZ overlap is to be treated the same as the remainder of the SU/HU.

Access Instructions

From the junction at Exeter Station road, continue south along the Cariboo Highway (HWY 97) for 9.8km to the Interlakes Hwy/Little Fort Hwy/BC-24 E (signs for Lone Butte/Bridge Lake). Turn left and follow BC-24 E for 37.4km. Turn left onto Shertenlib Road. Follow Shertenlib Road for 1.5km to a junction with Bridge Lake North Road. Stay left on Judson road and continue approximately 2.5km to Windy Mountain FSR. Follow Windy Mountain FSR for 23km and turn right onto the Barnett Perimeter Trail. This trail will eventually bisect the block. An ATV or snowmobile is required to access the block.

BCTS Ribbon Standards

BCTS Block Boundary

BCTS Road Location

WTRA Boundary

Machine Free Zone

Forest Service Road

Wildlife Tree Patch

Machine Free Zone

Harvest Plan Map

TSL

A95257

Business Area

Kamloops

Operating Area

Jim Creek (MH)

Management Unit

100 Mile House

Gross Block Area (ha)

71.9

Block ID

JI8P9

UBI

BE8P9

Location

Upper Windy Creek

FIZ

G

Geographic Center

Latitude

Longitude

51 37 51

-120 32 05

Unit	Area	Season	Method	Strategy
1	58.8	Any Season	Ground	Standard Practice
MFZ	0.9	Any Season	Ground	Machine Free Zone

Harvest Unit ID

Harvest Method

Non Productive SU

1; A

Ground

Non-Prod Permanent Access

WTRA

Cross Ditch

Arch Pipe

Arch Pipe, Proposed

Culvert

Culvert, Proposed

Bridge, Proposed

Bridge, Condemned

Removed Structures

Area of Concern

Slope Area (>35%)

SAR Cliff

SAR Forested

SAR Rare Ecosystems

Special Mgmt Area

Special Forest Mgmt Area

Biodiversity, Mining and Tourism Area

Private Land

Conservancy Areas

Protected Areas /Parks

Tailing Pond

Lake/Watercourse

Marsh

Swamp

BCTS All Blocks

Block of Interest

BCTS RG Block

BCTS FG Block

BCTS GPS Stations

BCTS Layout Points

BCTS Roads - Road State

Riparian Features

BCTS Streams Class

BCTS Cruise Features

GPS Station

Block Bdy Hub

Falling Corners

Reference Trees

Woody Debris

Landing Cable

Landing Ground

R/W Landing

Slump/Slide Area

Stub Tree

Tower Settings

Fish Barrier

Reach Breaks

Road Barrier

Rock Outcrops

Gate

Cattle Guard

Pipeline Crossing

Prop Skid Bridge

Prop Skid Crossing

Major Culvert

Minor Culvert

Drain Culvert

Snow Fill

Bridge

Cave/ Den

Mineral Lick

Nest

Wildlife Tree

Wildlife Feature

Back Spar Trail

Bladed Skid Trail

Forwarding Trail

Deflection Line

PP Temp Skid Trail

Non-Bladed Skid Trail

Skid Trail

Other Trail

Pipe Line

Seismic Line

Cultural/Heritage

Rec Trail

Fence Line

Cliff

Draw

Embankment

Gully

Ridge

Seepage

Slide

Slope Break

Rest. Side Decking

Stubbed Boundary

Road Permit

Skid/Yarding Direction

Wildlife Trail

River/Stream-Def

River/Stream-Indef

Contour - Index

Contour - Intermediate

Road Permit

Forest Service Road

Highway/Main/Paved Road

Gravel/Resource Road

Trail

Snow Shed (Railway)

Tunnel

Bridge

Airstrip

Rail Line

Pipeline / Wellsite

Deactivated Road

Existing Road

Proposed Road

Unknown/NULL

MFZ / MSZ

RMZ

RRZ

Unknown

INT;NCD

S1;S2;S3;S4

S5;S6

Dropped Plot

Count Plot

Measure Plot

PoT / PoC

Photo Tie point

Strip Line

0

50

100

150

200

250

Meters

1:5,000

Date

3/25/2019

User

DGANNER

Template Name

HarvestPlanMap_11x17L

Coordinate System

NAD 1983 BC Environment Albers

TSL A95257 JI8P9 HARVEST PLAN

SAFETY

- Overhead hazards - MPB has killed all the PI within the block. Snags and trees with dead/broken tops exist throughout the block.
- In addition to tripping hazards, be aware of overhead hazards as trees may be hung up.

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, retain:
 - Aspen: 90% retention of all merch; there was no At recorded during the cruise.
 - Douglas-fir: 90% retention of all merch; which equates to approx. approx. 3 sph, as per the cruise.
- With the exception of Lodgepole pine stems >50cm in height, conifer regen, saplings and poles should be avoided 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 uniformly across the HU such that individual stems are <1.5 tree lengths apart if feasible.

STUBBING

- All common boundaries and Machine Free Zones (MFZs) are to be stubbed every 5-10m at 3-5m in height to identify their locations post-harvest.

SLOPES

- Slopes range from 10-35%, averaging 24%.

COARSE WOODY DEBRIS

- The goal for Coarse Woody Debris levels 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) are not exceeded. TAS is currently calculated at 1.8% of the NAR.
- Two permanent access structures are proposed for this development, extending from the FSR MH5289.26, accounting for 4.1% of the gross block area.
- 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 MSZ = Machine Sensitive Zone RMZ = Riparian Management Zone

Riparian I.D. and Class.	RMA	SU	WIDTH (m)	Comments (Indicate if in a community watershed)
JI8P9-1-NCW	MSZ	1	10	This non-classified wetland feature occurs south of road MH JI8P9.04. JI8P9-1-S6 flows northwest from this feature. Boundary has been established a minimum 10m from the wetland edge. No additional management strategies are required.
JI8P9-ALL-NCD	MSZ	1	5	These non-classified drainages occur throughout the block and have all been managed with a minimum 5m buffer within a wildlife tree patch or machine free zone. JI8P9-1-NCD, JI8P9-2-NCD, JI8P9-3-NCD and JI8P9-4-NCD have been encompassed within proposed WTRAs 4 & 5, 6 & 7, 10, and 9, respectively. The WTRA boundary was hung a minimum 5m from the drainage on either side. JI8P9-5-NCD occurs within the southeastern portion of the block. This feature was managed using machine free zone ribbon. Stub the MFZ at 3-5m in height every 5-10m to identify its location post-harvest. Proposed road MH JI8P9.01 crosses through NCDs 1 & 2 and a 500mm x 10m culvert has been prescribed at each crossing. Proposed road MH JI8P9.02 crosses NCDs 2 & 5 and a 500mm x 10m culvert has been prescribed at each crossing.
JI7NS-ALL-S6	MSZ RMZ	1	5 20	Various S6 classified stream channels occur throughout the proposed development. All streams have been managed with a minimum 5m buffer and encompassed within proposed WTRAs: JI8P9-1-S6 - WTRA 2 & 3 JI8P9-2-S6 - WTRA 6 & 9 JI8P9-3-S6 - WTRA 2 Where proposed in-block and FSR roads cross the stream channels, a 600mm x 10m culvert has been prescribed. Any RMZ overlap is to be treated the same as the remainder of the SU/HU.

FOREST HEALTH

- Lodgepole pine stems >50cm in height will be eradicated in effort to minimize future mistletoe infestation.
- MPB has killed all the PI within the stand; PI makes up only a minor component of the stand.

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, operations are to 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 not located within known Mineral Claims. 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.