# Harvest Plan Map

BCTS BC Timber Sales

| TSL | Block ID |
|---|---|
| **TA2093** | **MSAN7** |
| Business Area: Kamloops | UBI: BEAN7 |
| Operating Area: Moose Valley (MH) | Location: Flat Lake Fire - Gustafsen/Dog Creek FSR 26-27 km |
| Management Unit: 100 Mile House | FIZ: D |
| Gross Block Area (ha): 0.95 | Geographic Center — Latitude: 51° 39' 16" Longitude: -121° 38' 22" |

| Unit | Area | Season | Method | Strategy |
|---|---|---|---|---|
| 1 | .95 | Any Season | Ground | Standard Practice |

## BCTS Ribbon Standards

- BCTS Block Boundary
- BCTS Road Location: Forest Service Road
- WTRA Boundary: Wildlife Tree Patch
- Machine Free Zone: Machine Free Zone

## WORKER ALERTS

All live, green trees (all species), and a small component of large diameter dead Fd is to be retained; 5% removal has been allotted for the live, green retention to allow for incidental removal due to operation or safety constraints. The stems per hectare (sph) listed below are an approximation of the leave trees post-harvest based on the cruise compilation, using an estimated percentage of what may be actually available for retention at time of harvest, actual numbers may vary.

Douglas-fir (dead) – Retain 90% of all dead stems >/=67.5cm dbh; none were tallied.
Douglas-fir (live) – Retain 95% of all live merch stems; which equates to 7 sph.
Spruce – Retain 95% of all live merch stems; none were tallied.
Lodgepole pine – Retain 95% of all live merch stems; which equates to 8 sph.
Aspen – Retain 95% of all live merch stems; none were tallied.

If encountered, retain any live unburned conifer regen, saplings and poles (with green, healthy-looking crowns) where they occur in patches.

STUBBING
- Retain 3 to 4 stub groups per hectare (5 or more stubs per group, 3-5m high). These stub groups should be created near and/or connecting riparian areas, green leave trees and/or regen, adjacent green stands/ plantations, large CWD logs left after burn, large rocks and/or outcrops, and knolls.
- Target stems that have visible external defects such as broken tops, cavities, checks or cracks.

GENERAL FURBEARER MANAGEMENT:
The following retention is prescribed across the block to provide resting habitat, connectivity and cover.
Retain >/= 1 single hard log per hectare, >35cm in diameter and >7 m in length, elevated 25-50 cm above ground. If trees >35 cm do not occur in the harvest area, 2 or more smaller trees totalling >35 cm diameter may be placed alongside each other and elevated 25-50 cm above ground.
Create >/=1 debris pile per hectare, each being >/=3m wide by >/=5 m long and piled >/=2m high, using the largest woody depris available on site.
Debris piles should be located >/=20m from the timber edge, but within 200m of riparian management areas and block edges to maintain connectivity.
Pile locations should aim to maintain a 50m dash distance between cover (standing timber, WTRAs and debris piles).
Actual pile locations may vary but should adhere to the above connectivity conditions.

RIPARIAN FEATURES

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

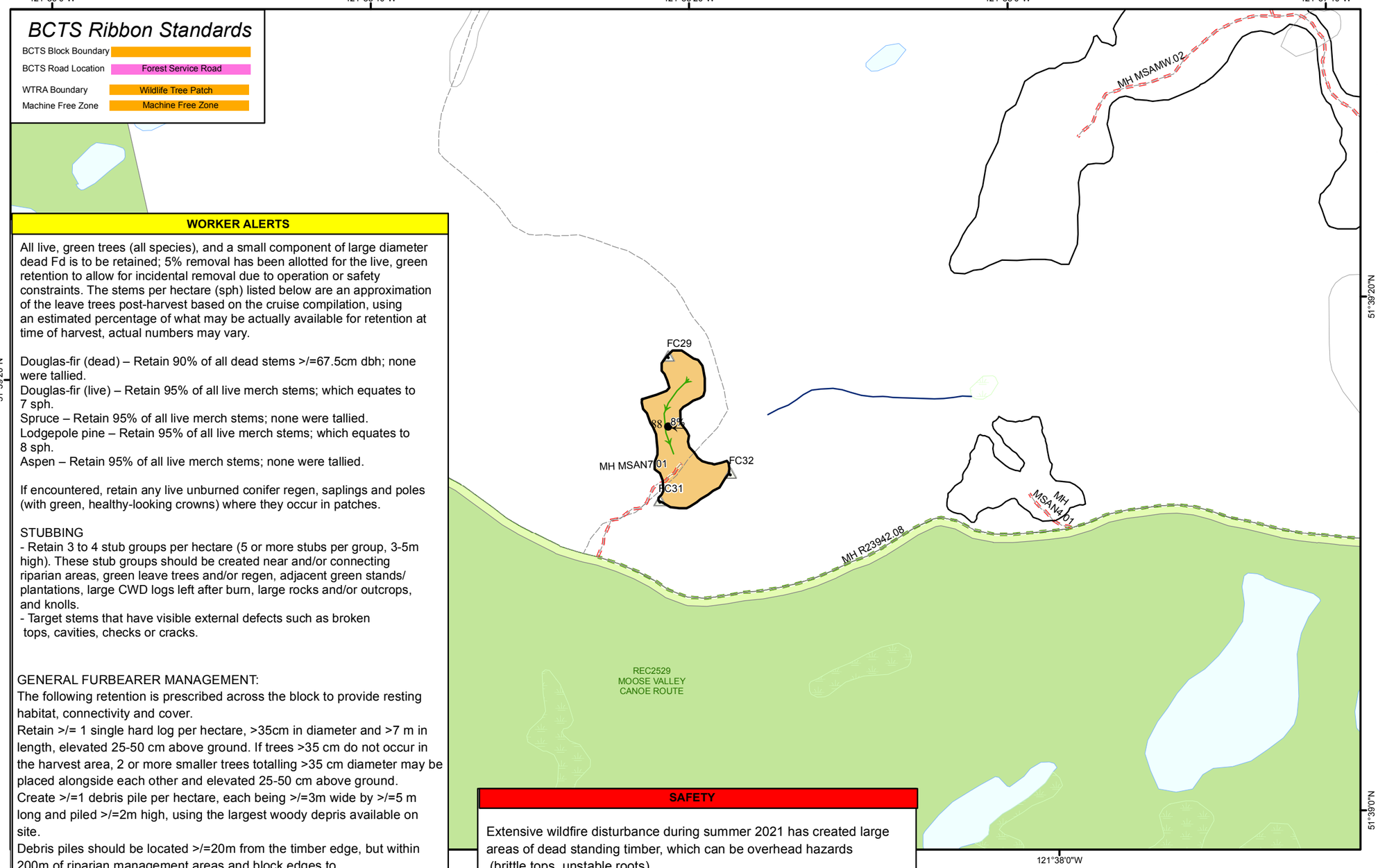
•There are no riparian features associated with this development.

## SAFETY

Extensive wildfire disturbance during summer 2021 has created large areas of dead standing timber, which can be overhead hazards (brittle tops, unstable roots).
Areas of unstable ground occur where root masses have been burned away below the topsoil layer and can pose as tripping, twisting or falling hazards.

Harvest Information
This block is appropriate for conventional roadside harvest (i.e. rubber tired skidder, mechanical falling).

SLOPES
Slopes generally range from 0-10% with an average of 8%
No slopes over 35% were noted within the harvest area.




## Access Instructions

From the junction at Exeter Station Rd and Hwy 97, travel west on Exeter Station Rd for 6.1 km (gravel surface begins at 3.8 km) to the start of the 1100 Rd (Gustafsen Lake FSR). Continue straight onto the 1100 Road and travel for 15.3km and turn right (north) onto road R08026 3-D. Travel on R08026 3-D for 5.3km and park. Follow old road MH R23942.08 to the left for approx.1.8km and turn right (north) onto proposed road MH R23942.08. Follow the proposed road for 125m to access the southwest portion of block MSAN7.

**Harvest Unit ID**: 1; A

**Harvest Method**: Ground

**Non Productive SU**

- BCTS All Blocks
- Block of Interest
- BCTS RG Block
- BCTS FG Block

**BCTS GPS Stations**
- GPS Station
- Block Bdy Hub
- Falling Corners
- Reference Trees

**BCTS Layout Points**
- 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
- Access Control

**Visuals Mgmt Class**
- Partial Retention
- DMH -Critical Fish Habitat Cariboo (BCGW)

**BCTS Line Features**
- Cat Trail
- 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
- Fireguard

**BCTS Layout Polygons**
- Existing Permanent Landing
- Existing Temporary Landing
- Proposed Permanent Landing
- Proposed Temporary Landing

**TRIM Features**
- Contour - Index
- Road Permit
- Contour - Intermediate
- Forest Service Road
- Highway/Main/Paved Road
- Gravel/Resource Road
- Trail
- Bridge
- Rail Line
- Pipeline / Wellsite
- Recreation Reserve
- Recreation Site
- Woodlots/ Community Forest
- Buffered Trail Areas

**BCTS Cruise Features**
- Dropped Plot
- Count Plot
- Measure Plot
- PoT / PoC
- Photo Tie point
- Slope Arrow
- Area of Concern
- Slope Area (>35%)
- SAR Cliff
- SAR Forested
- SAR Rare Ecosystems
- Special Mgmt Area
- Special Forest Mgmt Area
- Biodiversity, Mining and Tourism Areaa
- Private Land
- Conservancy Areas
- Protected Areas /Parks
- Tailing Pond
- Lake/Watercourse
- Marsh
- Swamp
- OGMA - Legal
- High Value Wetlands for Moose (CCLUP)

**BCTS Roads - Road State**
- Deactivated Road
- Existing Road
- Proposed Road
- Unknown/NULL
- Cross Ditch
- Arch Pipe
- Arch Pipe, Proposed
- Culvert
- Culvert, Proposed
- Bridge, Proposed
- Bridge, Condemned
- Removed Structures

**Riparian Features**
- MFZ / MSZ
- RMZ
- RRZ

**BCTS Streams Class**
- Unknown
- INT;NCD
- S1;S2;S3;S4
- S5;S6
- Lakeshore Mgmt Zone
- WUFN

0 50 100 150 200 250 Meters

1:5,000

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**Coordinate System** NAD 1983 BC Environment Albers