

Spełkúmtn Community Forest – 2021 Proposed Harvesting Summary

Lil'wat Forestry Ventures on behalf of the Spełkúmtn Community Forest is seeking review and comment regarding the proposed harvesting and associated road construction for cutblocks GC10B, GC10C, GC11 and GC12. These blocks are proposed to be harvested under the Spełkúmtn Community Forest tenure agreement, a partnership between the Lil'wat Nation and the Village of Pemberton. The proposed harvesting and road building details are provided below.

Block Name(s): GC10B, GC10C, GC11 and GC12

Block Descriptions:

GC10B, GC10C, GC11 and GC12 are located between 4.5km and 7.0km on the Green River FSR. The blocks are accessed via the existing Green River FSR and existing spur road Br GC7-1. Harvesting operations will utilize the existing roads and planned road systems as illustrated on the attached maps. All spur roads planned for construction or upgrades to existing spurs required for harvest operations are included in this referral.

The blocks are immature second growth stands ~ 55 years, Douglas fir leading with minor amounts of western red cedar, western hemlock and a component of deciduous stems (Alder, Cottonwood, Maple) are present in wetter portions of the blocks.

The blocks are rolling to moderately steep with slopes ranging from generally flat to moderately steep (15-55%). The blocks are ecologically characterized as CWHds1 zonal sites with some wetter and richer areas adjacent to seepages and small creeks. The blocks are planned for ground-based harvesting utilizing hoe forwarding/ground skidding. The blocks will be harvested under a clearcut with reserves / retention silviculture system with retention planned at 5-10 sph across each cutblock. Retention will be arranged as individual dispersed retention trees and small patches (5-20 trees/patch).

Block	Net Area (ha)	Species Mix	Harvest Type	Slope	Estimated volume (m3)	Age Class	Length New Road (m)
GC10B	4.4	Fd(CwHw)	Ground	10-55%	2200 m3	2 nd Growth	0m
GC10C	3.7	FdCw(HwDrAct)	Ground	10-55%	1850 m3	2 nd Growth	~225m
GC11	4.0	FdCw(Hw)	Ground	10-40%	2000 m3	2 nd Growth	0m
GC12	6.0	FdCw(Hw)	Ground	10-40%	3000 m3	2 nd Growth	0m

Key Values and Issues:

Highlight the primary identified values, issues associated with the proposed cutblocks / roads:

Recreation – No recreation features or activities have been identified within the proposed block areas. General recreation / public use of the area is high due to the proximity to town and presence of multiple resource roads. Recreation activities generally occurring are dog walking, target shooting, ATV and 4x4 driving. No specific management for recreation is required. Through a public information sharing process operational plans for activities within the Spełkúmtn Community Forest will be shared with the Village of Pemberton and with the Lil'wat Nation. All parties will be made aware of harvesting plans and road use restrictions or closures prior to and during active harvest operations.

Riparian – There are several small S6 creeks and non-classified drainages (NCDs) flowing through the block areas. A qualified person has assessed all riparian areas and prescribed appropriate management to maintain riparian areas function prior to harvest commence.

Terrain Stability – There are no slopes exceeding 60% within the block areas. There are no signs or evidence of historical slope stability issues within any portion of the cutblocks. Planned harvesting activities are appropriate to maintain slope stability and soil disturbance within acceptable limits.

Visuals – All of the blocks are located within an area of the landscape to which a Visual Quality Objective of “Partial Retention” applies. The cutblocks have been designed with the principles of good visual design and are expected to be only partially visible from any significant public viewpoints with significant screening occurring from boundary location, retention trees and topography of the valley. A formal Visual Impact Assessment will be prepared if further planning indicates visual impact studies are required. Following harvesting the blocks will be consistent with the criteria for “partial retention” and the visual impact will be acceptable.

Wildfire – These blocks are not located within the Wildland Urban Interface (WUI) as the Lillooet and Green Rivers provide a significantly fuel break between residential areas and the block location. Normal utilization of harvestable material, combined with roadside processing area clean up and piling of woody waste materials for disposal, both at roadsides and within the block area will ensure that the post-harvest wildfire risk of this area is not increased by harvest.

Wildlife – There is no significant wildlife habitat or critical wildlife features identified within the planned harvest areas. There have been no significant wildlife sightings or evidence of critical areas or features for wildlife use within the blocks. There is evidence of use by a variety of wildlife species throughout the area. Harvest of the blocks will maintain some of the existing wildlife features currently in place and it is anticipated that harvest will increase the amount of early seral stage browse species available for wildlife use following harvest. The block will have appropriate Wildlife Tree Retention Areas (WTRA) established which will maintain a component of wildlife trees appropriate for wildlife use in the general area.

If you have questions or to provide feedback about the harvest plans, please contact Klay Tindall, RPF, of Lil'wat Forestry Ventures at klay.tindall@lilwat.ca or (604) 894-6115 ext. 2250.

Spelkumtn Community Forest

APPRAISAL MAP

0 25 50 100 150 200 Metres
1:5,000

Map By: pfnch
Date: Jan 08, 2021
Projection: UTM Zone 10
Datum: NAD83
Mapsheet Reference: 92J027
Contour Interval: 5m

COORDINATES OF GEOGRAPHIC BLOCK CENTRE
UTM E: 522277 LAT: 50° 17' 51.478" N
UTM N: 5571771 LONG: 122° 41' 13.992" W

FIZ: C
TSA/TSB: Soo/31D
PSYU: 156
FDU: 8 - Billygoat

Licence: K5X CP: TBA
Block: GC10B TM: TBA
Location: Speikúmtn Community Forest

Natural Resource District: Sea to Sky
Natural Resource Region: South Coast
Maturity: Mat

Legend

Carto Features

- Geographic Centre of Block
- Possible Rock Shelter
- Culturally Modified Tree
- Wet Area
- Raptor Nest
- Proposed Helipad
- Rockbluff
- Transmission Line and Tower

Roads

- Built
- Proposed Engineered
- Proposed Reconstruction
- Temporary Road
- Skid Trail

Culverts & Bridges

- Culvert: Built, Proposed
- Bridge: Built, Proposed
- Designated Crossing
- Proposed Ford

Creek Class

- Stream: S1-S4
- Stream: S5, S6
- Stream: Indefinite, NCD
- Gully
- Machine Free Zone

Blocks

- Block GC10B
- Other Blocks
- Previously Harvested
- FallingCorner

Harvest Method

- GROUND
- STEEP GROUND
- CABLE
- HELI
- ROAD PERMIT

Retention

- Retention Tree
- Retention Cluster

Reserve

- WTRA
- Retention

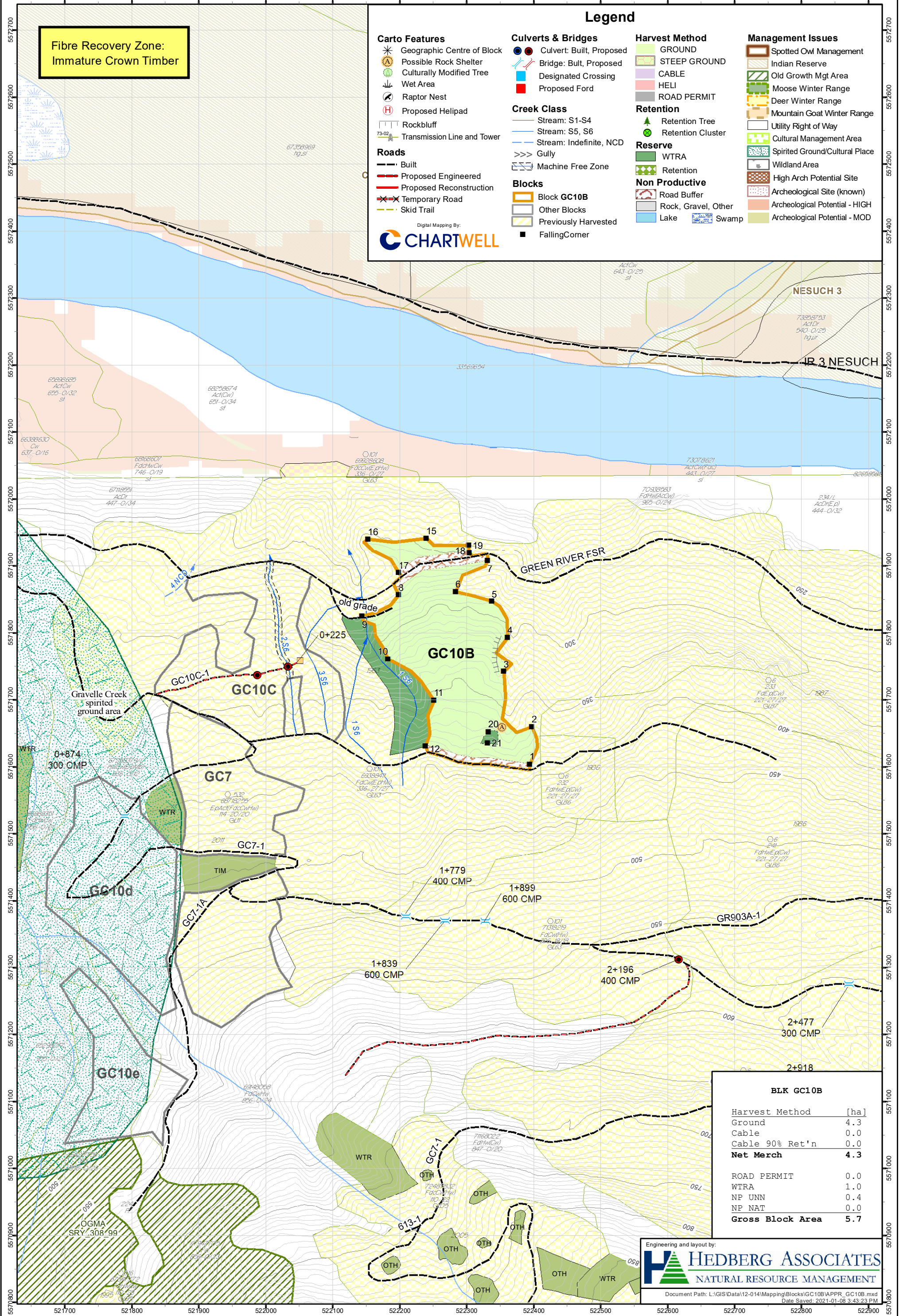
Non Productive

- Road Buffer
- Rock, Gravel, Other
- Lake
- Swamp

Management Issues

- Spotted Owl Management
- Indian Reserve
- Old Growth Mgt Area
- Moose Winter Range
- Deer Winter Range
- Mountain Goat Winter Range
- Utility Right of Way
- Cultural Management Area
- Spirited Ground/Cultural Place
- Wildland Area
- High Arch Potential Site
- Archeological Site (known)
- Archeological Potential - HIGH
- Archeological Potential - MOD

Digital Mapping By:
CHARTWELL



BLK GC10B	
Harvest Method	[ha]
Ground	4.3
Cable	0.0
Cable 90% Ret'n	0.0
Net Merch	4.3
ROAD PERMIT	0.0
WTRA	1.0
NP UNN	0.4
NP NAT	0.0
Gross Block Area	5.7

Engineering and layout by:
HEDBERG ASSOCIATES
NATURAL RESOURCE MANAGEMENT

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Spelkumtn Community Forest

APPRAISAL MAP

0 25 50 100 150 200 Metres
1:5,000

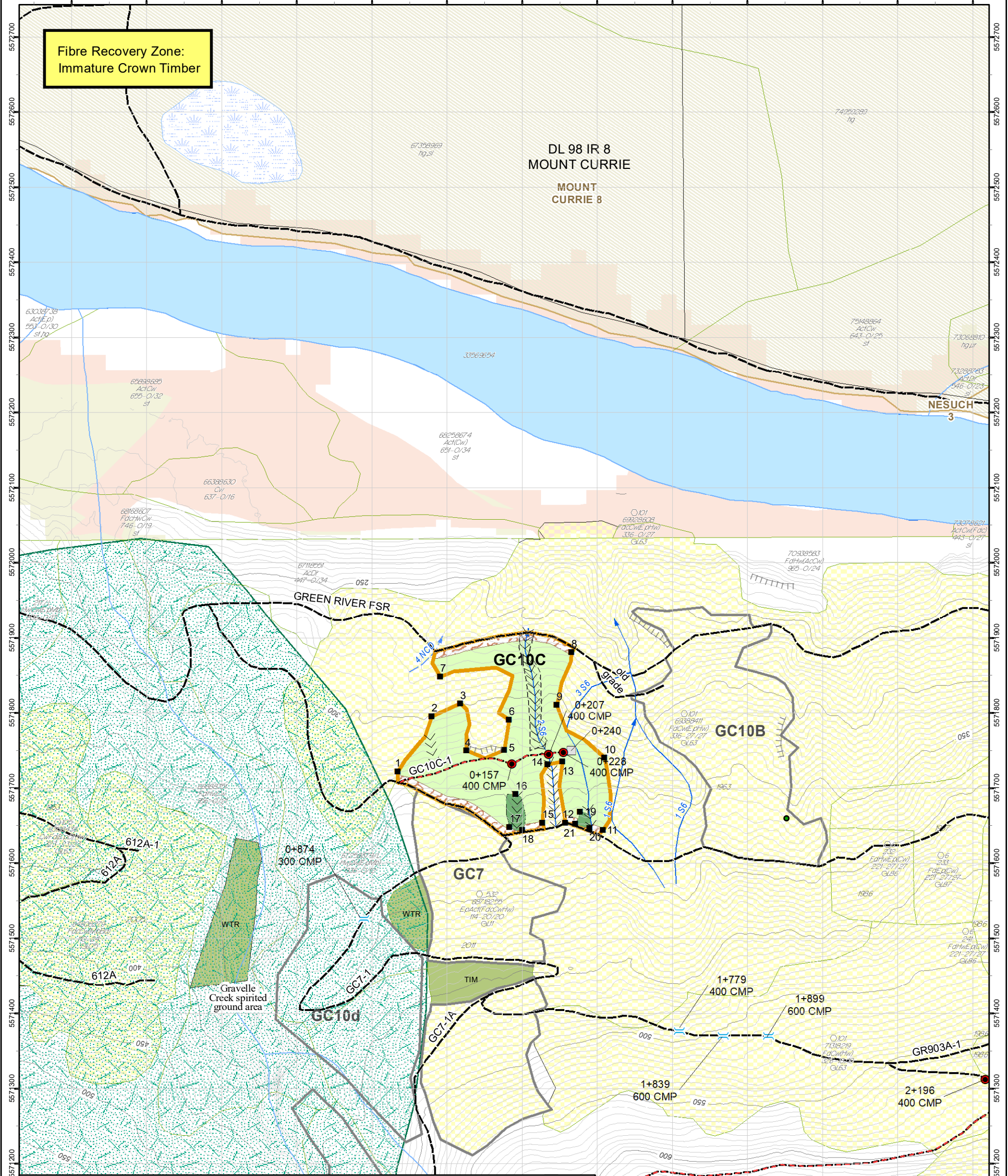
Map By: pfinch
Date: Jan 22, 2021
Projection: UTM Zone 10
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Mapsheet Reference: 92J027
Contour Interval: 5m

COORDINATES OF GEOGRAPHIC BLOCK CENTRE
UTM E: 521976 LAT: 50° 17' 50.517" N
UTM N: 5571740 LONG: 122° 41' 29.249" W

FIZ: C
TSA/TSB: Soo/31D
PSYU: 156
FDU: 8 - Billygoat

Licence: K5X CP: TBA
Block: GC10C TM: TBA
Location: Speikúmtn Community Forest

Natural Resource District: Sea to Sky
Natural Resource Region: South Coast
Maturity: Mat



Legend

Carto Features

- Geographic Centre of Block
- Culturally Modified Tree
- Wet Area
- Raptor Nest
- Proposed Helipad
- Heli Drop Zone
- Rockbluff
- Transmission Line and Tower

Roads

- Built
- Proposed Engineered
- Proposed Reconstruction
- Temporary Road
- Skid Trail
- Landing

Culverts & Bridges

- Culvert: Built, Proposed
- Bridge: Built, Proposed
- Designated Crossing
- Proposed Ford

Creek Class

- Stream: S1-S4
- Stream: S5, S6
- Stream: Indefinite, NCD
- Gully
- Machine Free Zone

Blocks

- Block GC10C
- Other Blocks
- Previously Harvested
- Falling Corner

Harvest Method

- GROUND
- STEEP GROUND
- CABLE
- HELI
- ROAD PERMIT

Retention

- Retention Tree
- Retention Cluster

Reserve

- WTRA
- Retention

Non Productive

- Road Buffer
- Rock, Gravel, Other
- Lake
- Swamp

Management Issues

- Spotted Owl Management
- Indian Reserve
- Old Growth Mgt Area
- Moose Winter Range
- Deer Winter Range
- Mountain Goat Winter Range
- Utility Right of Way
- Cultural Management Area
- Spirited Ground/Cultural Place
- Wildland Area
- High Arch Potential Site
- Archeological Site (known)
- Archeological Potential - HIGH
- Archeological Potential - MOD

BLK GC10C

Harvest Method	[ha]
Ground	3.6
Cable	0.0
Cable 90% Ret'n	0.0
Net Merch	3.6

ROAD PERMIT	0.0
WTRA	0.1
NP UNN	0.4
NP NAT	0.0
Gross Block Area	4.1

Engineering and layout by:

HEDBERG ASSOCIATES
NATURAL RESOURCE MANAGEMENT

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Digital Mapping By: CHARTWELL

Spelkumtn Community Forest

APPRAISAL MAP

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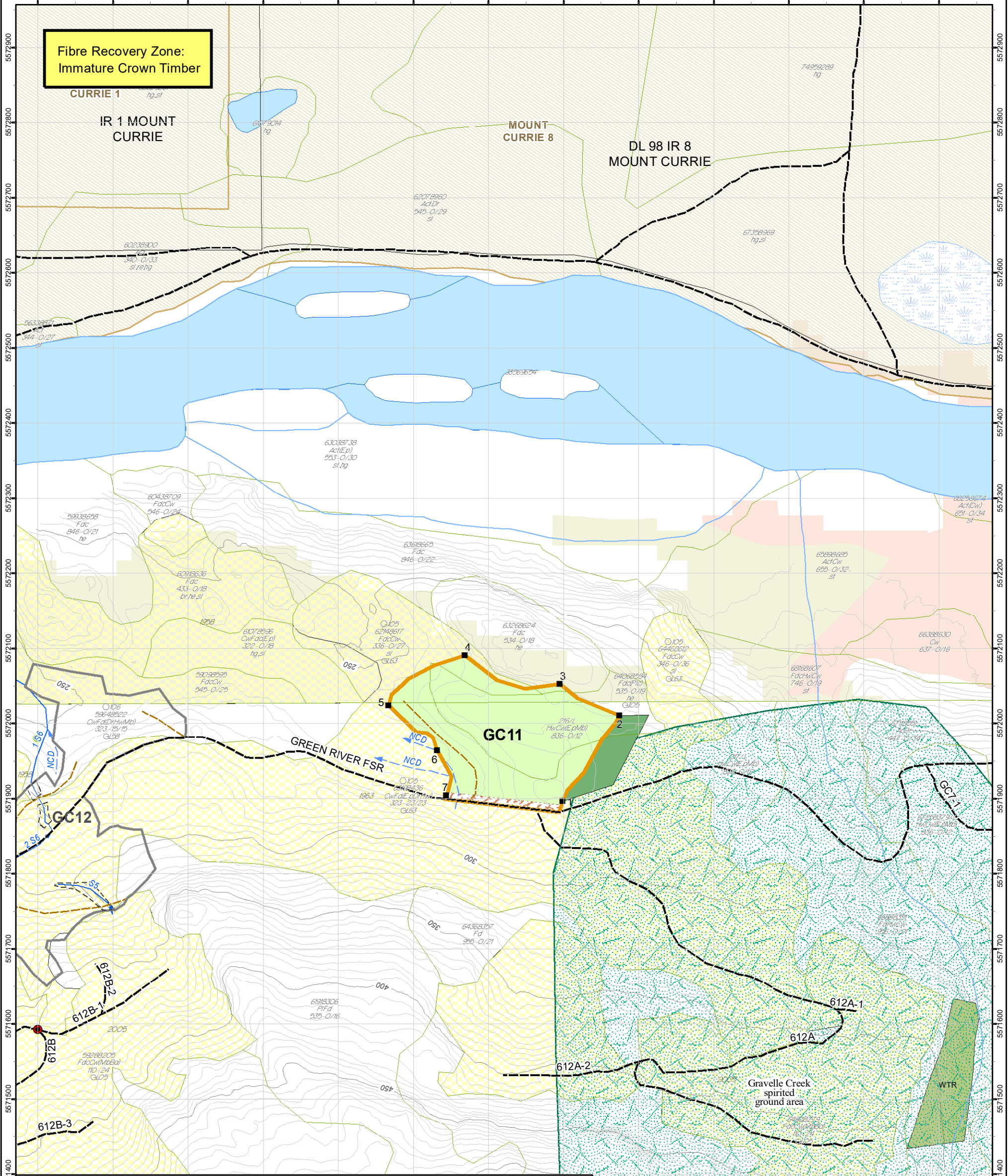
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Contour Interval: 5m

COORDINATES OF GEOGRAPHIC BLOCK CENTRE
UTM E: 520995 LAT: 50° 17' 58.596" N
UTM N: 5571985 LONG: 122° 42' 18.776" W

FIZ: C
TSA/TSB: Soo/31D
PSYU: 156
FDU: 8 - Billygoat

Licence: K5X CP: TBA
Block: GC11 TM: TBA
Location: Speikúmtn Community Forest

Natural Resource District: Sea to Sky
Natural Resource Region: South Coast
Maturity: Mat



Legend

Carto Features

- Geographic Centre of Block
- Culturally Modified Tree
- Wet Area
- Raptor Nest
- Proposed Helipad
- Heli Drop Zone
- Rockbluff
- Transmission Line and Tower

Roads

- Built
- Proposed Engineered
- Proposed Reconstruction
- Temporary Road
- Skid Trail

Culverts & Bridges

- Culvert: Built, Proposed
- Bridge: Built, Proposed
- Designated Crossing
- Proposed Ford

Creek Class

- Stream: S1-S4
- Stream: S5, S6
- Stream: Indefinite, NCD
- Gully
- Machine Free Zone

Blocks

- Block GC11
- Other Blocks
- Previously Harvested
- FallingCorner
- Remove Boundary

Harvest Method

- GROUND
- STEEP GROUND
- CABLE
- HELI
- ROAD PERMIT

Retention

- Retention Tree
- Retention Cluster

Reserve

- WTRA
- Retention

Non Productive

- Road Buffer
- Rock, Gravel, Other
- Lake
- Swamp

Management Issues

- Spotted Owl Management
- Indian Reserve
- Old Growth Mgt Area
- Moose Winter Range
- Deer Winter Range
- Mountain Goat Winter Range
- Utility Right of Way
- Cultural Management Area
- Spirited Ground/Cultural Place
- Wildland Area
- High Arch Potential Site
- Archeological Site (known)
- Archeological Potential - HIGH
- Archeological Potential - MOD

BLK GC11

Harvest Method	[ha]
Ground	3.6
Cable	0.0
Cable 90% Ret'n	0.0
Net Merch	3.6
ROAD PERMIT	0.0
WTRA	0.5
NP UNN	0.2
NP NAT	0.0
Gross Block Area	4.3

Engineering and layout by:
HEDBERG ASSOCIATES
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Spelkumtn Community Forest

APPRAISAL MAP

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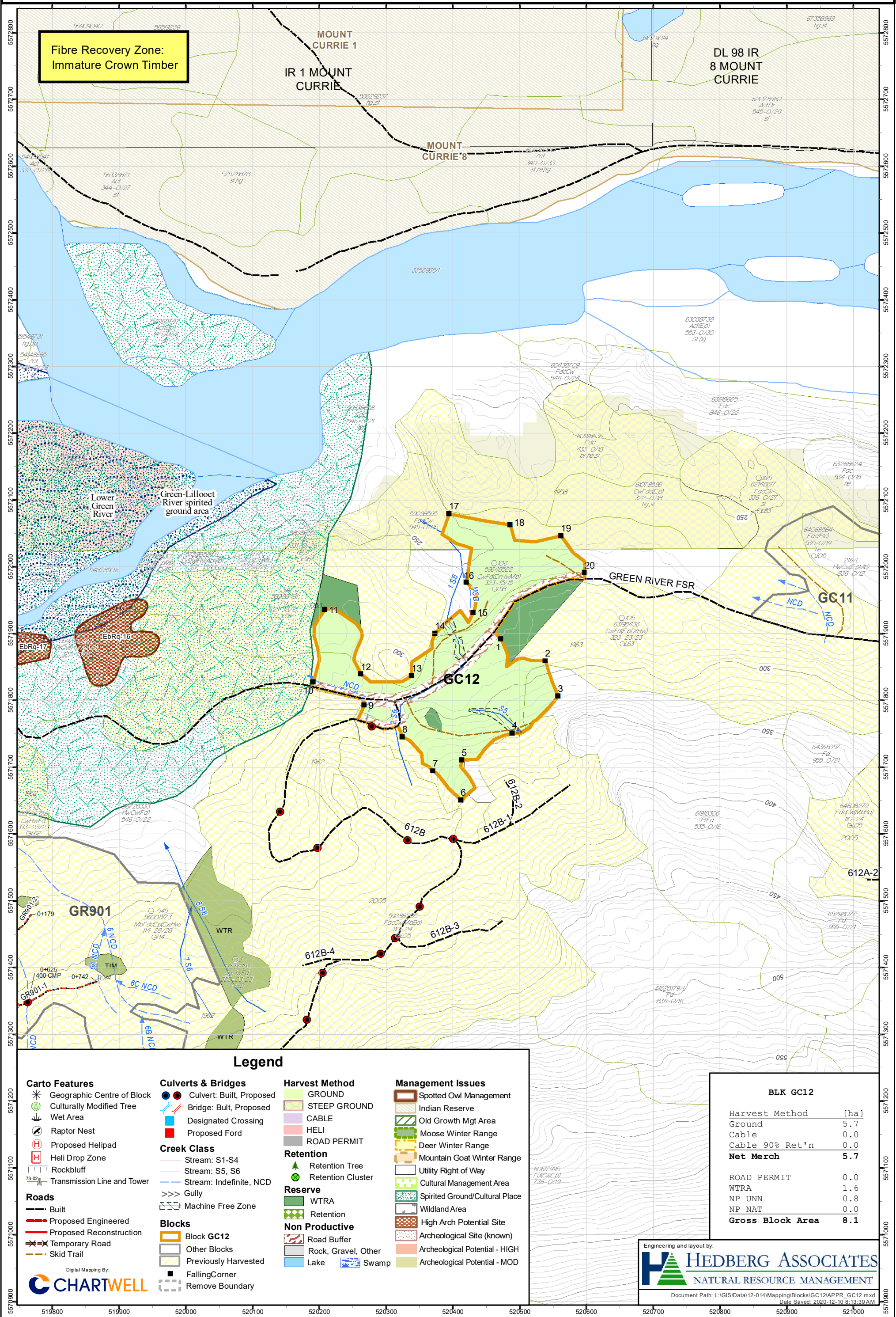
Map By: pfinch
Date: Jan 08, 2021
Projection: UTM Zone 10
Datum: NAD83
Mapsheet Reference: 92J027
Contour Interval: 5m

COORDINATES OF GEOGRAPHIC BLOCK CENTRE
UTM E: 520425 LAT: 50° 17' 54.883" N
UTM N: 5571868 LONG: 122° 42' 47.598" W

FIZ: C
TSA/TSB: Soo/31D
PSYU: 156
FDU: 8 - Billygoat

Licence: K5X CP: TBA
Block: GC12 TM: TBA
Location: Spelkumtn Community Forest

Natural Resource District: Sea to Sky
Natural Resource Region: South Coast
Maturity: Mat



Fibre Recovery Zone:
Immature Crown Timber

Legend

- | | | | |
|--|--|---|--|
| Carto Features
<ul style="list-style-type: none"> Geographic Centre of Block Culturally Modified Tree Wet Area Raptor Nest Proposed Helipad Heli Drop Zone Rockbluff Transmission Line and Tower | Culverts & Bridges
<ul style="list-style-type: none"> Culvert: Built, Proposed Bridge: Built, Proposed Designated Crossing Proposed Ford | Harvest Method
<ul style="list-style-type: none"> GROUND STEEP GROUND CABLE HELI ROAD PERMIT | Management Issues
<ul style="list-style-type: none"> Spotted Owl Management Indian Reserve Old Growth Mgt Area Moose Winter Range Deer Winter Range Mountain Goat Winter Range Utility Right of Way Cultural Management Area Spirited Ground/Cultural Place Wildland Area High Arch Potential Site Archeological Site (known) Archeological Potential - HIGH Archeological Potential - MOD |
| Roads
<ul style="list-style-type: none"> Built Proposed Engineered Proposed Reconstruction Temporary Road Skid Trail | Creek Class
<ul style="list-style-type: none"> Stream: S1-S4 Stream: S5, S6 Stream: Indefinite, NCD Gully Machine Free Zone | Retention
<ul style="list-style-type: none"> Retention Tree Retention Cluster | |
| Reserve
<ul style="list-style-type: none"> WTRA | Retention
<ul style="list-style-type: none"> Retention | Non Productive
<ul style="list-style-type: none"> Road Buffer Rock, Gravel, Other Lake Swamp | |
| Blocks
<ul style="list-style-type: none"> Block GC12 Other Blocks Previously Harvested Falling Corner Remove Boundary | | | |

BLK GC12	
Harvest Method	[ha]
Ground	5.7
Cable	0.0
Cable 90% Ret'n	0.0
Net Merch	5.7
ROAD PERMIT	0.0
WTRA	1.6
NP UNN	0.8
NP NAT	0.0
Gross Block Area	8.1

Engineering and layout by:
HEDBERG ASSOCIATES
NATURAL RESOURCE MANAGEMENT

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APPRAISAL MAP

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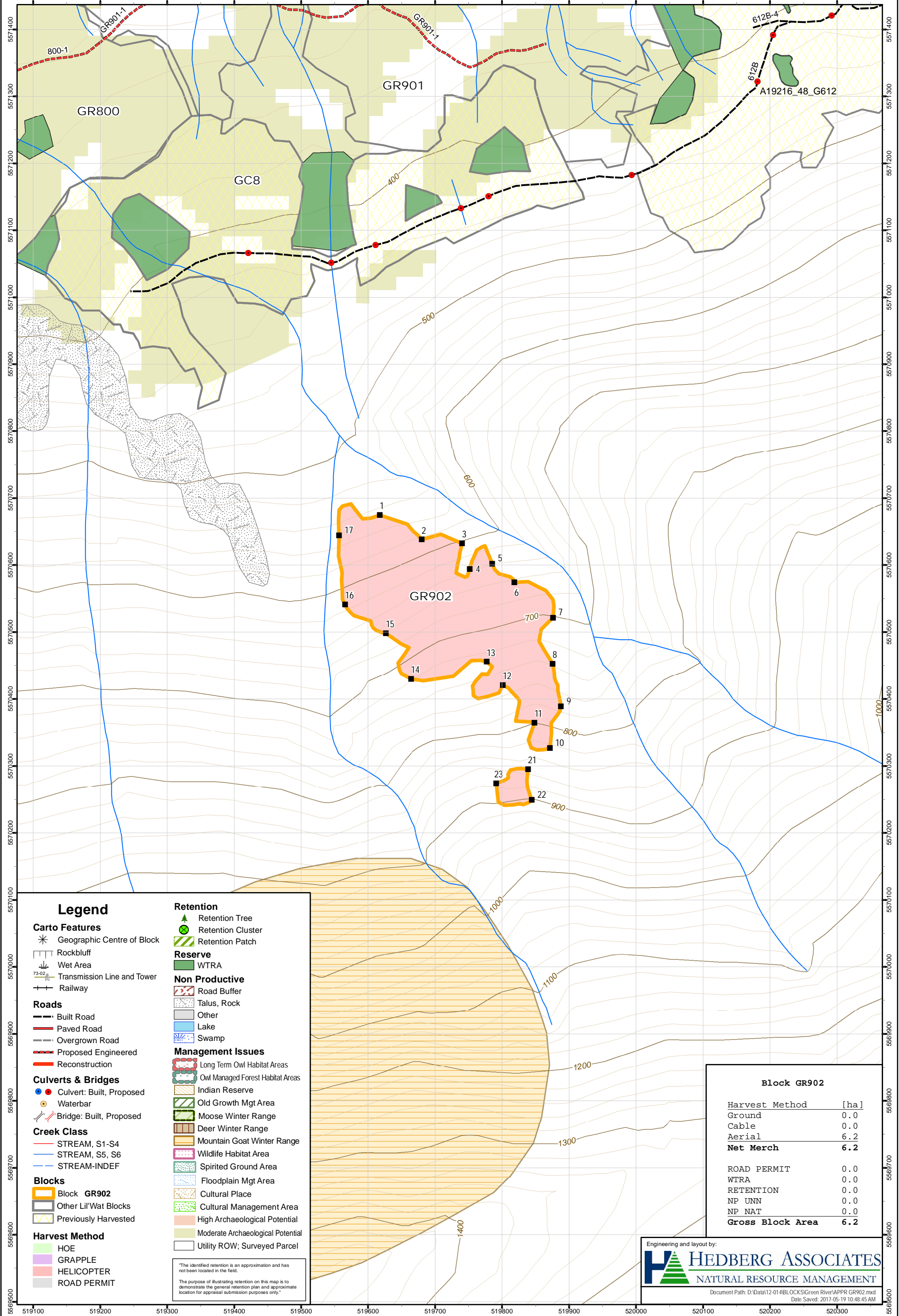
Map By: HH
Date: May 19, 2017
Projection: UTM Zone 10
Datum: NAD83
Mapsheet Reference:
Contour Interval: 20m
Gross Block Area: 00.0 Ha



Licence: FL CP: TBA
Block: GR902
Location: Green River

COORDINATES OF GEOGRAPHIC BLOCK CENTRE
UTM E: 519726 LAT: 50° 17' 11.292" N
UTM N: 5570519 LONG: 122° 43' 23.160" W

FIZ:
TSA/TSB:
PSYU: TBA
FDU:
REG: TBA COMP: TBA



Legend

Carto Features

- ✱ Geographic Centre of Block
- ⌈ Rockbluff
- ⌋ Wet Area
- 73-02 Transmission Line and Tower
- ⊕ Railway

Roads

- Built Road
- Paved Road
- Overgrown Road
- Proposed Engineered
- Reconstruction

Culverts & Bridges

- Culvert: Built, Proposed
- Waterbar
- Bridge: Built, Proposed

Creek Class

- STREAM, S1-S4
- STREAM, S5, S6
- STREAM-INDEF

Blocks

- Block GR902
- Other Lil'Wat Blocks
- Previously Harvested

Harvest Method

- HOE
- GRAPPLE
- HELICOPTER
- ROAD PERMIT

Retention

- Retention Tree
- Retention Cluster
- Retention Patch

Reserve

- WTRA

Non Productive

- Road Buffer
- Talus, Rock
- Other
- Lake
- Swamp

Management Issues

- Long Term Owl Habitat Areas
- Owl Managed Forest Habitat Areas
- Indian Reserve
- Old Growth Mgt Area
- Moose Winter Range
- Deer Winter Range
- Mountain Goat Winter Range
- Wildlife Habitat Area
- Spirited Ground Area
- Floodplain Mgt Area
- Cultural Place
- Cultural Management Area
- High Archaeological Potential
- Moderate Archaeological Potential
- Utility ROW; Surveyed Parcel

"The identified retention is an approximation and has not been located in the field.
The purpose of illustrating retention on this map is to demonstrate the general retention plan and approximate location for appraisal submission purposes only."

Block GR902

Harvest Method	[ha]
Ground	0.0
Cable	0.0
Aerial	6.2
Net Merch	6.2
ROAD PERMIT	0.0
WTRA	0.0
RETENTION	0.0
NP UNN	0.0
NP NAT	0.0
Gross Block Area	6.2

Engineering and layout by:

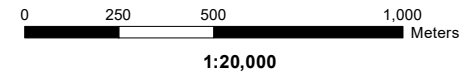
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Spelkúmtn Community Forest

Licence: K5X

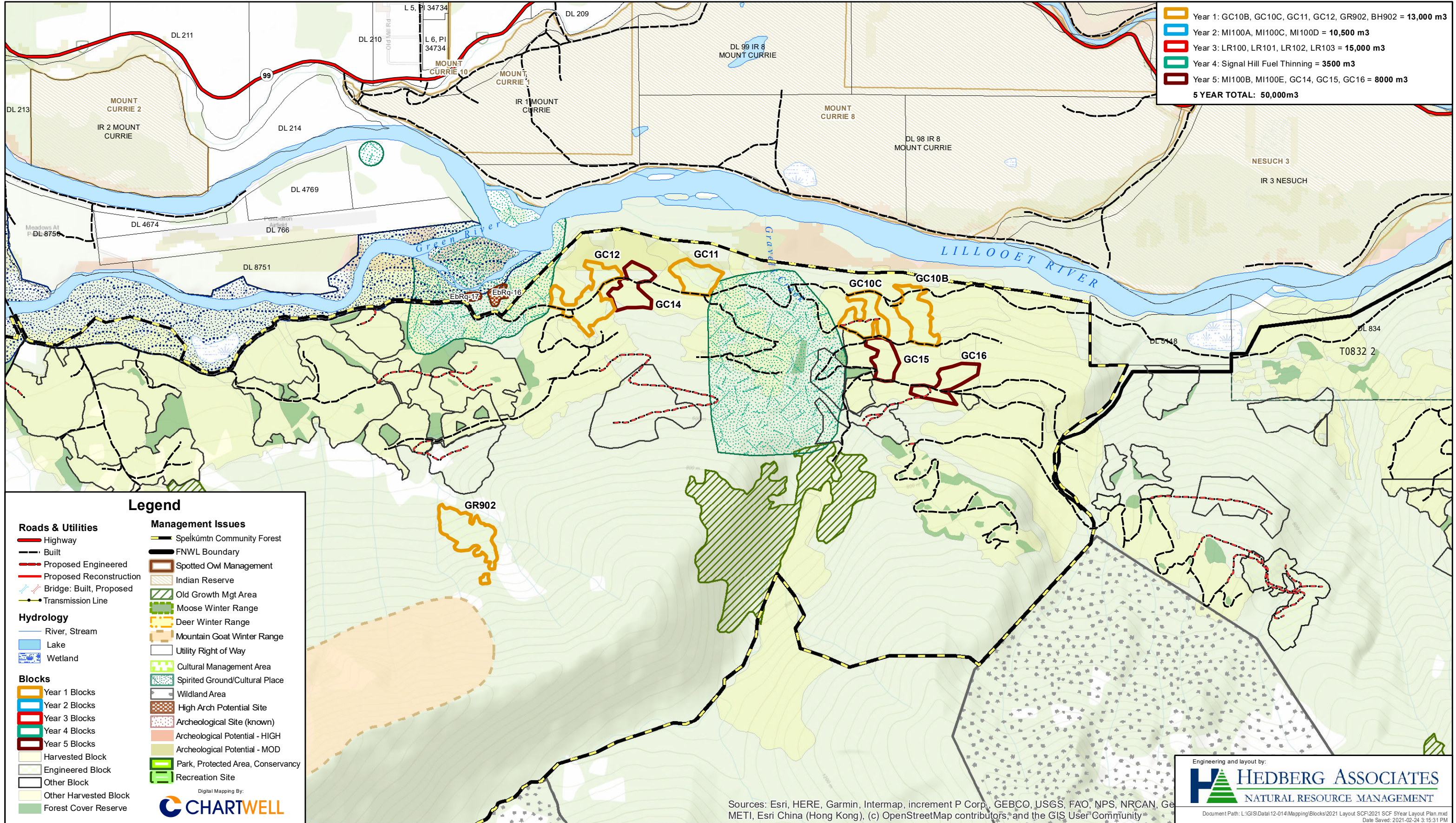
2021 Layout Plan Five Year Overview

Gravell Creek



Natural Resource District: Sea to Sky
Natural Resource Region: South Coast

Map By: pfinch
Date: Feb 24, 2021
Projection: UTM Zone 10
Datum: NAD83



	Year 1: GC10B, GC10C, GC11, GC12, GR902, BH902 = 13,000 m ³
	Year 2: MI100A, MI100C, MI100D = 10,500 m ³
	Year 3: LR100, LR101, LR102, LR103 = 15,000 m ³
	Year 4: Signal Hill Fuel Thinning = 3500 m ³
	Year 5: MI100B, MI100E, GC14, GC15, GC16 = 8000 m ³
5 YEAR TOTAL: 50,000m³	

Legend

- Roads & Utilities**
 - Highway
 - Built
 - Proposed Engineered
 - Proposed Reconstruction
 - Bridge: Built, Proposed
 - Transmission Line
- Hydrology**
 - River, Stream
 - Lake
 - Wetland
- Blocks**
 - Year 1 Blocks
 - Year 2 Blocks
 - Year 3 Blocks
 - Year 4 Blocks
 - Year 5 Blocks
 - Harvested Block
 - Engineered Block
 - Other Block
 - Other Harvested Block
 - Forest Cover Reserve
- Management Issues**
 - Spelkúmtn Community Forest
 - FNWL Boundary
 - Spotted Owl Management
 - Indian Reserve
 - Old Growth Mgt Area
 - Moose Winter Range
 - Deer Winter Range
 - Mountain Goat Winter Range
 - Utility Right of Way
 - Cultural Management Area
 - Spirited Ground/Cultural Place
 - Wildland Area
 - High Arch Potential Site
 - Archeological Site (known)
 - Archeological Potential - HIGH
 - Archeological Potential - MOD
 - Park, Protected Area, Conservancy
 - Recreation Site



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Ge METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Engineering and layout by:

NATURAL RESOURCE MANAGEMENT
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