

Site Plan for CP B05 Block 6036

Original

Conifex Mackenzie

A. TENURE IDENTIFICATIONS

FOREST DISTRICT	LICENCE	CUTTING PERMIT	TIMBERMARK	BLOCK	OPENING NUMBER	LOCATION
MacKenzie Forest District	A15385	B05	EM1B05	6036		CLEARWATER

B. AREA UNDER PLAN

SU	PAS	Rock	Swamp/ wetland	Reserves	Other NP Natural	Other NP Unnatural	Others	NAR	NCBR within NAR
A								23.5	
T	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	
Z						0.9			
TOTAL	0.0	0.0	0.0	1.7	0.0	0.9	0.0	23.5	0.0

Total Area under Plan: 26.1

C. RETENTION REQUIREMENTS

Biodiversity: Performance Standard (%): Block Target (%): 6.5

Two external WTRA's totalling 1.7 ha (6.5%) have been established. The external WTRA's are composed of stands and site series representative of the harvest area.

The block is located in the Clearwater General Resource Management Zone within the SBS wk2, NDT3 site unit. Because adjacent block(s) are free growing, after harvest, the block will contribute to the < 40 ha patch size category.

Deciduous trees will be left standing where operationally feasible unless their removal is required within the roadside work area or to comply with WCB regulations. If deciduous trees are removed, stems should be dispersed across the harvest area and not left in bunches or decked at roadside.

Coarse Woody Debris: Performance Standard (%): Block Target (%):

Coarse woody debris should be retained throughout the block, rather than concentrated at roadside work areas and/or landings. A minimum of four logs per hectare will be retained, averaged over the net area of the block. A log is considered to be a minimum of 2 m in length and 7.5 cm in diameter at one end.

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D. STOCKING REQUIREMENTS

Assessment Dates

Standard Unit	Standards ID	Regen Delay Date (yrs)	Freegrow Early (yrs)	Freegrow Late (yrs)
A	1046897	4		20

SU: A Regeneration Layer

PREFERRED SPECIES			ACCEPTABLE SPECIES			Post Spacing Density (st/ha)		Max. Coniferous (st/ha)		
Species	Min. Hgt.	Footnotes	Species	Min. Hgt.	Footnote	Min:	Max:	10000		
Sx Hybrid Spruce (SE x SW)	0.80		Pli Lodgepole Pine - Interior	1.60		Well Spaced Trees (#/ha)				
Bl Subalpine fir	0.80					Target Pref./Acc.	Minimum Pref./Acc.	Minimum Pref.	Min. Horizontal Dist. Pref./Acc.(m)	
						1200	700	600	1.6	
						Height Relative to Competition (%)				
									125 %	

Other performance standards necessary to produce or measure achievement of a free growing stand :

1. Aspen (At), cottonwood (Act), and birch (Ep) as well as willow (Salix spp) and alder (Alnus spp) within 5 meters S4, S5 and S6 class streams, are not considered deleterious brush competition for the purpose of conducting a free growing survey.
2. The maximum countable coniferous stems per hectare shall be consistent with the "July 17, 2007 Rationale for the Regional Executive Directors Decision to Increase Upper Limits of Conifer Maximum Density in the Northern Interior Forest Region", signed by W.J.(Bill) Warner, R.P.F., Regional Executive Director, Northern Interior Forest Region, on August 2, 2007.

Other Required Stocking Information:

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E. ASSESSMENTS

Biological Diversity Assessment

Two external WTRA's totalling 1.7 ha (6.5%) have been established. The external WTRA's are composed of stands and site series representative of the harvest area.

The block is located in the Clearwater General Resource Management Zone within the SBS wk2, NDT3 site unit. Because adjacent block(s) are free growing, after harvest, the block will contribute to the < 40 ha patch size category.

Deciduous trees will be left standing where operationally feasible unless their removal is required within the roadside work area or to comply with WCB regulations. If deciduous trees are removed, stems should be dispersed across the harvest area and not left in bunches or decked at roadside.

Coarse Woody Debris Assessment

Coarse woody debris should be retained throughout the block, rather than concentrated at roadside work areas and/or landings. A minimum of four logs per hectare will be retained, averaged over the net area of the block. A log is considered to be a minimum of 2 m in length and 7.5 cm in diameter at one end.

Cultural Heritage Assessment

No archaeological sites were identified during the field operations.

Fisheries Assessment

One W3 wetland and two NCW's have been identified adjacent to the harvest boundary. See Riparian Management Strategies for details.

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E. ASSESSMENTS

Gully Assessment

There are no gullies within this block.

Lichen Assessment

This block is located within Stone Sheep Ungulate Winter Range U-7-028 Specified Area SA1. There will be no use of domestic sheep or goats for vegetation management.

Polygons containing Rank 4 were identified; therefore, if harvesting occurs within the nesting time period (April 15 - August 15) additional retention within those polygons is required in the form of unplanned/unmarked retention, or individual wildlife tree, snag and stub retention. Operators have been trained in migratory bird nest identification and mitigation strategies.

Polygons containing Rank 5 were identified; therefore, if harvesting occurs within the nesting time period (April 15 - August 15) additional retention within those polygons is required in the form of unplanned/unmarked retention, or individual wildlife tree, snag and stub retention. Operators have been trained in migratory bird nest identification and mitigation strategies.

Operations will cease if Caribou are seen within 500 meters of the block boundaries where active logging is occurring.

NA Conditions Assessment

This entire block is within a KARST Potential Areas.

Karst Potential Area ID: 29295

Feature Code: HB15075000

Geological Unit Name: Equivalent of Whitehorse Formation

Karst Likelihood: P

No Karst topography was noted during the SP field work. No special actions are required.

Pest Incidence Survey

No forest health concerns were noted during the during the field operations.

Range Assessment

This block is not located within an established range use license.

Recreation Assessment

No recreation areas have been identified within or adjacent to this block.

Riparian Assessment

One W3 wetland and two NCW's have been identified adjacent to the harvest boundary.

See Riparian Management Strategies for details.

Sensitive Areas Assessment

No sensitive areas have been identified within or adjacent to this block.

Vegetation Assessment

No invasive plants were identified within or adjacent to this block.

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E. ASSESSMENTS

Visual Impact Assessment

A portion of this block is located within a visual landscape polygon.

VLI polygon - 582
VSU Number - 582
VSC final value - P
EVQO-M

A Visual Impact Assessment has been completed. See the attached
VIA_Summary_6036_Final.pdf

Watersheds Assessment

This block is not located within a community watershed.

Archaeological Impact Assessment

If archaeological features are identified during harvesting or other forestry operations, activities will cease in the vicinity of the feature. The feature will be referred to the appropriate First Nations group and a qualified professional will access any cultural heritage resource brought to our attention. Further development activities will be consistent with the recommendations of the assessment.

F. SOIL CONSERVATION

Max Roadside Disturbance (%) : 25 Max Proportion of Total Area Allowed for Permanent Access (%) : 7

Soil Disturbance Comment (Rational if performance standard exceeded) :

Proposed PAS = 3.4%.

SU	Soil Compaction*	Surface Soil Erosion	Soil Displacement	Max Soil Disturbance Temp Exceeded (%)	Max Soil Disturbance (%)
A	Very High	Moderate	Moderate	5	5

G. ECOLOGY

Standard Unit	Ecology Unit	Area	Zone	Subzone	Variant/ Phase	Site Series (series-%)	Elevation (m)			Slope Position	Soil Texture
							Min	Max	Avg		
A	1	23.5	SBS	wk	2	05-100	750	840	795	Level	SCL
T	1	1.7	SBS	wk	2	05-100	750	840	795	Level	SCL

I. SILVICULTURE SYSTEMS

Clearcut with reserves

SU(s) Critical site conditions affecting timing of operating and how they are affected

A The presence of clayey soils give this SU a very high compaction hazard rating. Winter harvest on frozen soils is preferred. However, summer harvesting is acceptable if machine traffic is minimized and/or low ground pressure equipment is used to ensure the Maximum Allowable Soil Disturbance limit of 5% is not exceeded.

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J. RIPARIAN

Riparian Lake ID	Rip./ Lake Class	Res Zone (m)	Mgmt Zone (m)	Comments
NCW-01	NCW	0	0	The entire NCW is outside the harvest boundary. No special actions are required.
NCW-02	NCW	0	0	The entire NCW is outside the harvest boundary. No special actions are required.
W3-01	W3	0	30	The block boundary has been located to retain a minimum of 97% of the RMZ of this W3 wetland. This retention will meet or exceed the required retention level set forth in Section 5.3.2 (a) of the 2015 - 2020 FSP. The remaining portion of the RMZ, within the harvest boundary, will be treated as per the adjacent SU.

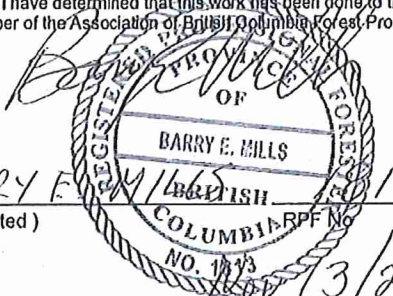
General Riparian Comments:

One W3 wetland and two NCW's have been identified adjacent to the harvest boundary. See Riparian Management Strategies for details.

K. ADMINISTRATION

RPF Signature and Seal:

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 the standards expected of a member of the Association of British Columbia Forest Professionals.


 BARRY E. MILLS
 RPF Name (Printed)
 RPF Signing Date 11/13/2018

Other Signatures (if required)



District Manager Signature

Plan Prepared By

Nov. 14, 2018
 Date

Date

Date

Additional SP Comments:

Amendment Comments:

L. ATTACHMENTS

VIA_Summary_6036_Final.pdf

Nov. 14, 2018

Michael W. McElroy