

SITE PLAN



McBride Community

Forest Corporation

☒ Original
☐ Amendment

1.0 TENURE IDENTIFICATION

LICENCE #	CUTTING PERMIT	BLOCK	OPENING NUMBER	FSP BLOCK LABEL	LOCATION/MAPSHEET
K1H	993	9			McKale Creek

2.0 AREA UNDER THE PLAN

SU	Area	PAS	BEC	Rock	Swamp/Wetland	Other NP	NCC	Reserves	MFZ
1	27.2		SBSdh101						
2	90.5	1.1	SBSdh106					0.8	
3	22.9	0.6	SBSdh107					0.4	
4	30.8	0.9	SBSdh105						
5	4.0		SBSdh104						
Road			SBSdh						
RZ			SBSdh						
WTP	(26.6)		SBSdh						
TOTAL	175.4	2.6						1.2	

3.0 SOIL DISTURBANCE

SU	Sensitive Soils	Max Allowable Soil Disturbance (%)	Max Amount of MASD May Exceed Prior to Rehab (%)	Max Allowable Soil Disturbance For Roadside Work Areas (%)	Maximum Permanent Access Structures (%)
1-7		5	10	25%	7%
SU	CRITICAL SITE CONDITIONS THAT AFFECT THE TIMING OF OPERATIONS AND HOW THEY AFFECT THE TIMING				
	Conduct harvesting in frozen or dry conditions. Avoid disturbance of natural drainage pattern and mineral soil exposure.				

4.0 STOCKING REQUIREMENTS

SU	FSP STOCKING STANDARD
1	81162 SBSdh 01
2	81162 SBSdh 01
3	81162 SBSdh 01
4	81162 SBSdh 01
5	81162 SBSdh 01
6	81162 SBSdh 01

RECEIVED

APR 24 2012

BK

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5.0 ASSESSMENTS

5.1 VISUAL IMPACT ASSESSMENT		
The block is not in a visually sensitive area.		
IS THE BLOCK IN A KNOWN SCENIC AREA (YES/NO)?	no	DATE OF ASSESSMENT

5.2 ARCHAEOLOGICAL IMPACT ASSESSMENT		
Block located in area of high area archaeological potential. 6 AIA field assessments conducted in 2007 found no issues. Site should be downgraded to low.		
DATE	CONSULTANT	RECOMMENDATIONS

5.5 TERRAIN STABILITY FIELD ASSESSMENTS				
The CP area is essentially a flat flood plain along the Fraser River. No terrain stability issues anticipated.				
DATE	CONSULTANT	POLYGON	CLASSIFICATION	RECOMMENDATIONS

6.0 HIGHER LEVEL PLAN / FOREST STEWARDSHIP PLAN CONSIDERATIONS/ OBJECTIVES SET BY GOVERNMENT

6.1 Soils
This block is consistent with sections 35 and 36 of the FPPR.

6.2 Timber
This block is consistent with the timber harvesting priorities as stated in the FSP.

6.4 Wildlife (Riparian)
This block is consistent with the measures to protect riparian features as stated in the FSP. Reserve zones located around all streams within and adjacent to the block.

6.3 Wildlife/Ungulate Winter Range
There is no known (established) ungulate winter range (legal definition) within or adjacent to this block. Anecdotal information indicates high wildlife use of the area and high level of hunting pressure. Moderate level of retention will conserve these values.

6.4 Biodiversity – STAND LEVEL
This block is consistent with the measures to retain biodiversity as stated in the FSP (i.e. minimum 7% in WTP collectively and for blocks greater than 15 ha, 3.5% that relates to the specific cutblock). 26.6 ha or 15% of the block set aside in WTP's.

6.5 Biodiversity – LANDSCAPE LEVEL
This block is consistent with the measures to retain biodiversity as stated in the FSP. OGMA's have been spatially located and will be reserved from harvesting.

6.6 Cultural Heritage
This block does not contain, nor is it in the vicinity of, any known culturally significant sites.

6.7 Visual Resource Management
This block will meet the visual quality objectives for the area (none).

6.8 Recreation

There are no known recreation features or interests on this block (legal definition). Area does however receive high hunting pressure in the fall months.

6.9 Range

There is no range improvements within or adjacent to the block. Access on east portion of the block (Edgar's Road) has cattle guard at entrance off of Mountainview Road and some fencing (due to area in community pasture). If issues encountered with cattle damage to plantation, may have to set up drift fence along main entrances to old salvage blocks.

6.10 Fisheries

Fraser River and McKale Creek are salmon bearing streams. Fraser carries with it a 100 m Riparian Management Zone, minimum 20% basal area retention. McKale Creek has many braided channels towards its mouth – contained within a large wildlife tree patch. Outer braids and side channels protected by 30 m Reserve Zone.

6.11 Watersheds

This block does not reside within a community watershed nor does it contain any private water intakes.

7.0 LEAVE TREE SPECIFICATIONS

7.1 LEAVE TREE SPECIES AND FUNCTIONS				
SU	Species		Layer	Minimum Leave Tree Characteristics Including Form, Health And Vigour
	Pref.	Accept.		
1-5	Sx, Df, Ce		1	Retain small diameter cedar, spruce, Douglas fir and balsam. Retain oversize Df for seed source.
COMMENTS		Pockets of advance regeneration and poles to be retained. Retained trees to provide some measure of cover for ungulates and other wildlife.		

8.0 SOIL DISTURBANCE

8.1 PERMANENT AND TEMPORARY ACCESS CALCULATION SUMMARY						
Description of Access Structure	S.U.	Details	Temporary		Permanent	
			Area (ha)	% of NAR	Area (ha)	% Gross
Roads	1	Utilize existing winter road/trail network as much as possible.			2.6	
Landings	1	Estimate limiting landings to 4 at 0.25 ha each.			1.0	
Existing Trails		Utilize existing trail network as much as possible.				
Gravel Pit(s)		None				
Total Temporary						
Total Permanent					3.6	2.1%

9.0 RIPARIAN MANAGEMENT

9.1 RIPARIAN RETENTION AREA SUMMARY					
SU	Stream IDs	Stream Class	Retention Width (m)	Stream Lengths (m)	Retention (ha)
1-6	Fraser River	S1	0 m, however retain 20% BA within 100m RMA		
1-6	McKale Creek	S2	30		26.6 ha WTP
All streams protected by 30 m reserve zone.					

7.5 WILDLIFE TREE PATCH RETENTION			
ID#	HA	Timber type label (age, height, notch class, crown closure and site index)	Layer 1 stems/ha
		SBSdh01	

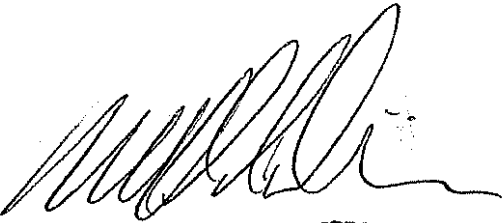
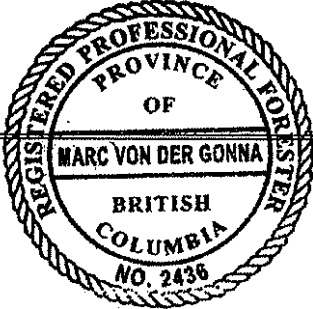
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SILVICULTURE PLAN

10.1 ECOLOGY						
SU	Elevation Range	BEC Zone	BEC Subzone	BEC Variant	Site Series	Phase
1	700-800 m	SBS	dh1		01	
2	700-800 m	SBS	dh1		06	
3	700-800 m	SBS	dh1		07	
4	700-800 m	SBS	dh1		05	
5	700-800 m	SBS	dh1		04	
Comments: All SU's under same stocking standard. Will plant spruce and rely on natural regeneration of pine and Douglas fir.						

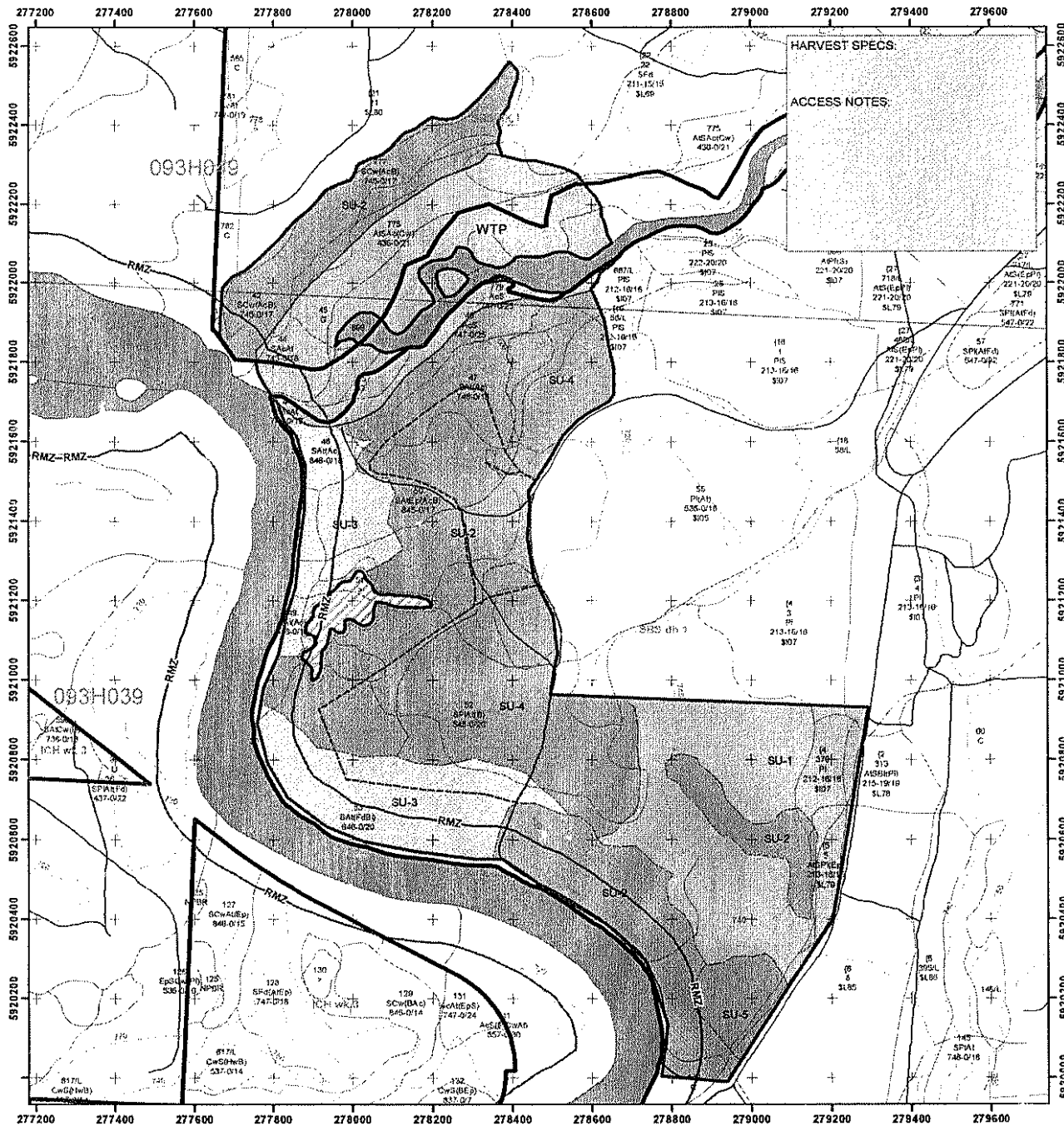
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PROFESSIONAL CERTIFICATION

RPF'S SIGNATURE and SEAL	RPF PRINTED NAME
 	Marc von der Gonna, RPF 2436
	DATE SIGNED
	Oct-31/11
I certify that I did personally supervise the work herein and this work has been done to standards acceptable of a Registered Professional Forester.	

Site Plan Map

Forest Region:	Southern Interior	Cutting Permit:	993	Gross Area (ha):	175.4
Forest District:	Headwaters	Block No.:	9	NAR (ha):	145.0
TSA:	Robson Valley	Timbermark:	K1H993	Map Scale:	1:10,000
Mapsheet/Opening #:	093H039	PSYU:		Projection:	UTM-NAD83 Zone 11
Licence:	K1H	Location:		Date:	November 24, 2011



SU	BGCZ	Site Series	Average Slope	Treatment Description	Gross Area (ha)	NHZ	WTP	Roads/Landings		RRZ	NAR
1	SBS dh1	01			27.2	0.0	0.0	TAS	PAS	0.0	27.2
2	SBS dh1	06			90.5	0.0	26.6	0.0	1.1	0.8	62.0
3	SBS dh1	07			22.9	0.0	0.0	0.0	0.6	0.4	21.9
4	SBS dh1	05			30.8	0.0	0.0	0.0	0.9	0.0	29.9
5	SBS dh1	04			4.0	0.0	0.0	0.0	0.0	0.0	4.0
TOTALS:					175.4	0.0	26.6	0.0	2.6	1.2	145.0

Legend:

- Block Boundary
- Other FDP Blocks
- No Harvest Zone
- Machine Free Zone
- WTP
- Falling Corner
- Station
- SP Plot
- 100m Contours
- 20m Contours
- Forest Tenure Roads
- Forest Service Road
- Highway
- Logging Road
- Proposed Road
- Temporary Access
- Pipeline
- Transmission Line
- Secondary Rd
- Trail
- Existing Landing
- Existing ROW
- Existing Cable
- Existing Temporary Landing
- Proposed Landing
- Proposed ROW
- Proposed Cable
- Proposed Temporary Landing
- Proposed Skid Direction
- 20% Slope
- Rock
- Culvert
- Cattleguard
- Skid Crossing
- Streams
- NCD Stream
- Riparian Reserves
- Lakes & Rivers
- Swamp
- OGMA
- Environmentally Sensitive Areas
- Mule Deer Winter Range
- Ungulate Winter Range
- Caribou Habitat
- BEC Zones
- Parks
- TFL
- Community Forest

Coordinates of Block Center
 Easting: 278200
 Northing: 5921200
 Latitude: 53° 23' 35" N
 Longitude: 120° 20' 09" W

Scale:
 0 50 100 200 300 400 500 Meters

Ecora
 david.myers@ecora.ca, SP803_MK9, 11x17
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SITE PLAN



McBride Community

Forest Corporation

☒ Original
☐ Amendment

1.0 TENURE IDENTIFICATION

LICENCE#	CUTTING PERMIT	BLOCK	OPENING NUMBER	FSP BLOCK LABEL	LOCATION/MAPSHEET
K1H	993	6			Clyde Creek

2.0 AREA UNDER THE PLAN

SU	Area	PAS	BED	Rock	Swamp/Wetland	Other NP	NCG	Reserves	MEZ
1	77.3		ICHwk3 ₀₁						
2	2.3		ICHwk3 ₀₄						
RZ	12.3							12.3	
WTP	19.2							19.2	
TOTAL	111.1							31.5	

3.0 SOIL DISTURBANCE

SU	Sensitive Soils	Max Allowable Soil Disturbance (%)	Max Amount of AS May Be Used (MASH) Pkg. To Rehab (%)	Max Allowable Soil Disturbance For Roadside Work Areas (%)	Maximum Permanent Access Structures (%)
1		5	10	25%	7%
2					
SU: CRITICAL SITE CONDITIONS THAT AFFECT THE TIMING OF OPERATIONS AND HOW THEY AFFECT THE TIMING					

4.0 STOCKING REQUIREMENTS

SU	FSP STOCKING STANDARD
1	81138 ICHwk3 01
2	81141 ICHwk3 04

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5.0 ASSESSMENTS

5.1 VISUAL IMPACT ASSESSMENT		
The partial harvest nature should mitigate any effect on visual quality.		
IS THE BLOCK IN A KNOWN SCENIC AREA (YES/NO)	no	DATE OF ASSESSMENT

5.2 ARCHAEOLOGICAL IMPACT ASSESSMENT		
This block lies within an area that has moderate to high archaeological potential. AIA field assessments conducted in 2007 found no evidence. Area should be downgraded to low. Buffer zone along Fraser River (between railroad and river) and WTP located along length of Clyde Creek should also protect any areas that may have a higher potential.		
DATE	CONSULTANT	RECOMMENDATIONS

5.6 TERRAIN STABILITY FIELD ASSESSMENTS				
There are no significant slopes on this Block.				
DATE	CONSULTANT	POLYGON	CLASSIFICATION	RECOMMENDATIONS

6.0 HIGHER LEVEL PLAN / FOREST STEWARDSHIP PLAN CONSIDERATIONS/ OBJECTIVES SET BY GOVERNMENT

6.1 Soils
This block is consistent with sections 35 and 36 of the FPPR.

6.2 Timber
This block is consistent with the timber harvesting priorities as stated in the FSP.

6.4 Wildlife (Riparian)
This block is consistent with the measures to protect riparian features as stated in the FSP. All streams have a 30 m RMZ.

6.3 Wildlife/Ungulate Winter Range
There is no known ungulate winter range within or adjacent to this block.

6.4 Biodiversity – STAND LEVEL
This block is consistent with the measures to retain biodiversity as stated in the FSP (i.e. minimum 7% in WTP collectively and for blocks greater than 15 ha, 3.5% that relates to the specific outblock). WTP located to the north of the block along Clyde Creek.

6.6 Biodiversity – LANDSCAPE LEVEL
This block is consistent with the measures to retain biodiversity as stated in the FSP.

6.6 Cultural Heritage
This block does not contain, nor is it in the vicinity of, any known culturally significant sites..

6.7 Visual Resource Management
This block will met the visual quality objectives for the area.

6.8 Recreation
There are no known recreation features or interests on this block.

6.9 Range

There is no range tenures or improvements within or adjacent to the block.

6.10 Fisheries

All streams within the block are protected by a 30 m management zone. Clyde Creek covered by WTP.

6.11 Watersheds

This block does not reside within a community watershed.

7.0 LEAVE TREE SPECIFICATIONS

7.1 LEAVE TREE SPECIES AND FUNCTIONS				
SU	Species		Layer	Minimum Leave Tree Characteristics including form, Health And Vigour
	Ref	Acpt		
1	Hw, Ce		1	Retain mature hemlock and cedar to form regen cover crop and seed source, and small diameter cedar, spruce and balsam.
2	Hw, Ce		1	Retain mature hemlock and cedar to form regen cover crop and seed source, and small diameter cedar, spruce and balsam.
COMMENTS		The leave trees will provide a shelter layer for regeneration and help control brush.		

8.0 SOIL DISTURBANCE

8.1 PERMANENT AND TEMPORARY ACCESS CALCULATION SUMMARY						
Description of Access Structure	S.O.	Details	Temporary		Permanent	
			Area (ha)	% of NAR	Area (ha)	% Gross
Roads		Access through existing old trails and block 58.			2.0	
Landings			0.0		1.0	
Existing Trails		Reuse old existing trails as much as possible.				
Gravel Pit(s)		None				
Total Temporary				0.0		
Total Permanent					3.0	5.0%

9.0 RIPARIAN MANAGEMENT

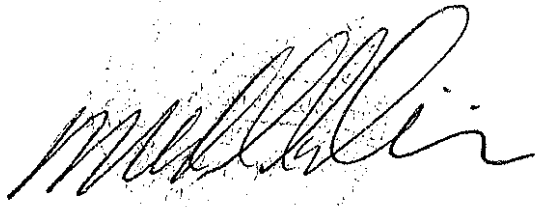
9.1 RIPARIAN RETENTION AREA SUMMARY					
SU	Stream IDs	Stream Class	Retention Width (m)	Stream Lengths (m)	Retention (ha)
	Clyde	S2	30	North side of block	
RZ		S6	0	Variable	
Skid around.					

7.5 WILDLIFE TREE PATCH RETENTION			
ID	HA	Tree type label (age, height, crown class, crown closure and site index)	Layer / stems/ha
	12.3	ICHwk3 ₀₁	

10.0 SILVICULTURE PLAN

10.1 ECOLOGY						
SP	Elevation Range	BEC Zone	BEC Subzone	BEC Variant	Site Series	Phase
1	700-825 m	ICH	wk	3	01	n/a
2	700-825 m	ICH	Wk	3	04	n/a
Comments:						

11.0 PROFESSIONAL CERTIFICATION

RPF'S SIGNATURE and SEAL	RPF PRINTED NAME
	Marc von der Gonna, RPF 2436
	DATE SIGNED
	MAY 10/11
I certify that I did personally supervise the work herein and this work has been done to standards acceptable of a Registered Professional Forester.	

