

SITE PLAN

A. TENURE IDENTIFICATION

LICENCE #	CUTTING PERMIT	BLOCK(s)	OPENING NUMBER - MAPSHEET	LOCATION	LATITUDE/LONGITUDE
A88973	7	1	103P057	~11km Borden Lake	55° 33' 32", 128° 46' 18"

B. AREA UNDER PLAN

GROSS AREA (TAUP)	PAS	NCBR	WTP/WTRA	RESERVES	OTHER	NAR
35.7	1.9	0.8	7.0	0.0	0.0	26.0

C. SOIL DISTURBANCES

SU	Max. Allowable Soil Disturbances	Max. Amount TAS may Exceed MASD prior to rehab (%)	Max. Allowable Soil Disturbance for Roadside Work Area (%)	Maximum Permanent Access Structures (%)
1	10.0	5.0	25.0	7.0
SU	CRITICAL SITE CONDITIONS THAT AFFECT THE TIMING OF OPERATIONS AND HOW THEY AFFECT THE TIMING			
1	<p>This Standard Unit (SU) is characterized by moderate, short broken, west facing slopes with pockets of hummocky ground. Slopes typically <40% however steep slopes of 60-75% exist in some areas and operators are to follow proper steep slope protocols as defined by Worksafe BC. Timber types in this SU are dominated by western hemlock with a subcomponent of hybrid spruce and pine. A minor amount of amabilis fir also exists.</p> <p>The ecology of this SU consists of a BEC site series classification of zonal ICH mc1 01. This site series is characterized by an absence of understory shrubs and an abundance of feathermosses covering the forest floor. The hummocky terrain has characteristics of the 03 site series on the hummock crests.</p> <p>Soils consist of a silt to silty loam soil texture. Coarse fragments are 10-20% on the lower slopes of the hummocks while the crests can be at 70-85%. No soil disturbance concerns were noted. A 10% allowable soil disturbance limit has been set however dry summer conditions or frozen soils recommended.</p>			

D. STOCKING REQUIREMENTS

SU	NAR	FSP STANDARD ID #	Other Performance Standards
1	26.0	1054621	<p>Bl-29, Ba-50, Sx-56, Hw-32, Pl, At-b, Ep-b</p> <p>Advisory footnotes to "Preferred or "Acceptable" species in Table A1 and A2. 29 risk of heavy browsing by moose 32 limited by growing-season frost 50 restricted to those sites and site series where the species occurs as a major species (>20% of dominant and co-dominant sph) in the pre-harvest natural stand. 56 Kalum forest district- spruce content restricted to <20% well-spaced and free-growing trees on a standards unit due to leader weevil.</p> <p>Footnotes to "Broadleaf" species in Table A1 and A2 b Species is limited in productivity, reliability, and/or feasibility, and subject to section 6 of this FSP, may be considered as "acceptable" for regeneration in managed stands.</p>
Comments	<p>Avoid planting lodgepole pine due to common occurrence of Dothistroma needle blight in juvenile pine stands and plantations in the area.</p> <p>While At and Ep are preferred and acceptable species under these standard, they are not acceptable in this block as per Section 6 of the FSP because the original species composition of broadleaves is not >30%.</p> <p>As per Objective 4.2.4 in the Gitanyow Huwilp Society FSP, plant a minimum of two different preferred tree species. One preferred tree species can be a maximum of 70% of the total planted trees</p>		

SITE PLAN

E. FSP RESULTS AND STRATEGIES

FSP SECTION	RESULT OR STRATEGY	HOW THE RESULT OR STRATEGY APPLIES TO THE SITE
4.1	Agriculture and Range	
4.1.1	Range Resources	<p>There is no overlap with an agreement under the Range Act.</p> <p>Stocking standards outlined in Section 6 of the Gitanyow Huwilt Society FSP will be followed.</p> <p>The Result for Soil Productivity and Hydrologic Function will be followed</p>
4.2	Biodiversity	
4.2.1	Patch Distribution and Seral Condition	<p>This block is of a size and distribution that emulates the historical temporal and spatial distribution of NDT2.</p> <p>This block will contribute to the medium patch target and will move towards the patch size distribution target.</p> <p>This block will move towards the seral stage condition targets. .</p>
4.2.2	Wildlife Tree Retention Areas	<p>This block retains at least 3.5% of cutblock area as WTRA and contributes to the annual target of at least 12% of cutblocks retained as WTRA. There are 7.0 ha of WTRA, which is 19.5% of the gross cutblock area.</p> <p>Additionally 1.63 ha of WTRA are internal patches, which exceeds the 25% of the target 12% (1.07 ha) required by the FSP.</p>
4.2.3	Red and Blue Listed Ecological Communities	There were no red or blue listed ecological communities identified in this block during development.
4.2.4	Natural Species Composition	<p>This block has 1 SU. It will be planted with a minimum of two different preferred tree species as per the stocking standards in Appendix A, with one preferred species being a maximum of 70% of the trees planted.</p> <p>Stocking standards specified in Section 6 of the Gitanyow Huwilt Society FSP will be followed.</p> <p>All deciduous trees will be retained except where required to be felled for road building activities or to ensure worker safety. Retention of clumps of poles, saplings, and advanced regeneration exhibiting good form and vigour where practicable is required.</p> <p>See Leave Tree Specifications Section for more information.</p>
4.2.5	Natural Species Composition- Deciduous	N/A This block is not composed of more than 50% deciduous trees by basal area.
4.2.6	Old Growth Management Areas	N/A This block is not within an Old Growth Management Area.
4.2.7	Ecosystem Network-Hydroriparian Zone	N/A This block is not within a hydroriparian zone within an Ecosystem Network.
4.2.8	Ecosystem Network Structural Connectivity	N/A This block is not within an Ecosystem Network.
4.2.9	Ecosystem Network Buffer	This block is partially within an Ecosystem Network Buffer as 1.51 ha of the NAR overlap with the buffer in the northern part of the block. Block boundary placement ensures the ≥70% structure and function are met. NAR is 29%.
4.2.10	Maintenance or Enhancement of Biodiversity	<p>Will be managed through Results and Strategies in Sections:</p> <ul style="list-style-type: none"> • 4.2.1.1, • 4.2.1.2, • 4.2.2.1,

SITE PLAN

		<ul style="list-style-type: none"> • 4.2.3.1, • 4.2.4.1, • 4.2.5.1, • 4.2.6.1, • 4.2.7.1, • 4.2.8.1, and • 4.2.9.1
4.2.11	Rare Ecosystems, Floodplains, and Riparian Areas	<p>Will be managed through Results and Strategies in Sections:</p> <ul style="list-style-type: none"> • 4.10.1.1, • 4.10.2.1, • 4.10.2.2, • 4.10.3.1, • 4.10.4.1, • 4.10.5.1 • 4.10.6.1, and • 4.2.3.1
4.3	Botanical Forest Products	
4.3.1	Wild Berries and Pine Mushrooms	<p>Wild Berries will be managed through Results and Strategies in Sections: 4.2.1.2 and 4.2.1.1.</p> <p>One pine mushroom polygon overlapped this development in the vicinity of boundary hub 4. Only 0.17 ha overlapped the block and it was field confirmed to not be productive pine mushroom ground.</p>
4.4	Community Watersheds	
4.4.1	Water in Community Watersheds	N/A Not within a community watershed or in the vicinity of a licensed waterworks.
4.5	Cultural Heritage	
4.5.1 and 4.5.2	Cultural Heritage	<p>There were no cultural heritage features identified in this block.</p> <p>A Cultural Heritage Resource Evaluation was conducted for this block. There were no traditional use sites or archaeological sites identified during the information sharing with the Gitanyow First Nation.</p> <p>If any previously unidentified cultural heritage features are identified or suspected during industrial activities within 300m of primary forest activity, operations will be modified or cease on the area to protect the feature until a CHRE is completed, the Gitanyow Office of the Hereditary Chiefs, and the Chief of the affected House Territory have been consulted, and measures and strategies for the protected of the resource have been developed and implemented.</p> <p>The Gitanyow Office of the Hereditary Chiefs and the Chief of the affected House Territory (Gamlakyeltxw) will be notified within 60 days before commencement of timber harvesting and road construction of active roads required for access, re-activation of deactivated roads required for access, and the location of all proposed roads and cutblock boundaries.</p> <p>A letter of support has been provided by the Chief of the affected House Territory (Gamlakyeltxw).</p>
4.5.3	Cedar Management	N/A This block does not contain any cedar and is not within a cedar stand reserve.
4.5.4	Cultural Sites	No pre-1846 or post-1846 cultural sites were identified in this block.
4.5.5	Gitanyow (Kitwancool) Lake Management	N/A this block is not within the vicinity of Gitanyow Lake.
4.7	Recreation	
4.7.1	Public Access to Recreation Opportunities	Access to this block or through the block will not be restricted.

SITE PLAN

		<p>This block does not overlap with the Grease Trail.</p> <p>This block is not in the vicinity of a recreation area.</p>
4.8	Fish	
4.8.1	Fisheries Sensitive Watersheds	<p>Not within a fisheries sensitive watershed.</p> <p>Will comply with FFPR sections 55, 56, and 57</p>
4.8.2	Indigenous Fish Populations	<p>Will be managed through Results and Strategies in Sections:</p> <ul style="list-style-type: none"> • 4.2.7.1, • 4.2.8.1, • 4.2.9.1, • 4.10.1.1, • 4.10.2.1, • 4.10.3.1, • 4.10.4.1, • 4.10.6.1, and • 4.11.5.1
4.9	Soils	
	Soil Productivity and Hydrologic Function	<p>Will comply with FFPR sections 35 and 36.</p> <p>A 10% maximum allowable soil disturbance has been applied to SU1.</p> <p>Permanent Access Structures account for 5.3% of the cutblock area.</p> <p>Additional riparian reserve zones will be applied as per Table 6 in section 4.10.3.1.</p> <p>All on-block roads will be deactivated within one year of primary forest activity completion.</p> <p>Grass seeding of all roads and ditch lines will occur once deactivation is complete.</p>
4.10	Timber	
	Timber	<p>Once harvested the block will be reforested to at least the minimum stocking as per the BEC classification listed in Appendix A of the Gitanyow Huwlp Society FSP.</p> <p>It will also meet the regeneration delay, free growing heights, and free growing dates as described in Appendix A.</p> <p>This block is not within Gitanyow treaty settlement lands.</p> <p>Will be managed through Results and Strategies in sections 4.2.1 and 4.2.2.</p>
4.11	Water and Riparian	
4.11.1	Water and Riparian	<p>The ECA threshold for the Extra Watershed of 26.2% will not be exceeded by the harvesting of this block.</p>
4.11.2 And 4.11.3	Water and Riparian-Riparian Features	<p>Will comply with FFPR sections 47(1), 47(2), 47(3), and 47(7). 47(8), 48(1), 48(2), 48(6), 48(7), 49(4), 49(5), 50, 51, 52, 53, 54, and 58.</p> <p>There are no required assessments for the Extra Watershed on the Watershed Integrity Matrix.</p> <p>Sufficient drainage structures will be installed on new roads to ensure groundwater will not run into surface water and that subsurface water will reach natural ground water receiving sites.</p> <p>Riparian reserve zones as outline in Table 6 of the Gitanyow Huwlp Society FSP have been applied. See Riparian Management Section for details.</p> <p>Will also be managed though strategy 4.12.2.</p>
4.11.4	Large Woody Debris	<p>All blowdown within the riparian reserve zone and the riparian management zone within the cutblock area will be retained as large woody debris.</p>

SITE PLAN

		For all streams large woody debris that would not naturally be in the channel will not be added, and naturally deposited debris will not be removed, except where necessary to satisfy safety considerations.
4.11.5	Floodplains and Alluvial Fans	N/A This block is not within a floodplain or an alluvial fan.
4.11.6	Water Management Unit	N/A This block is not within a water management unit.
4.11.7	Riparian Areas	Will be managed through Results and Strategies in Sections: <ul style="list-style-type: none"> • 4.10.2.1, • 4.10.3.1, • 4.10.4.1, • 4.10.6.1, • 4.11.2.2, and • 4.11.5.1
4.12	Wildlife	
4.12.1	Wildlife	Will be managed through Results and Strategies in Sections: <ul style="list-style-type: none"> • 4.2.1.1, • 4.2.2.1, • 4.2.3.1, • 4.2.6.1, • 4.2.7.1, • 4.2.5.1, • 4.2.6.1, • 4.2.7.1, • 4.2.8.1, • 4.2.9.1, • 4.13.3.1, • 4.13.4.1 • 4.13.6.1 • 4.13.7, and • 4.13.8.2,
4.12.2	Marbled Murrelet	Will be managed through Results and Strategies in Sections: <ul style="list-style-type: none"> • 4.2.1.1, • 4.2.1.2, • 4.2.6.1, • 4.2.7.1, • 4.2.8.1, and • 4.2.9.1
4.12.3	Mountain Goats	N/A Not within 1000m of mountain goat winter range or canyon-dwelling goat winter range.
4.12.4	Moose	This block slightly overlaps with moose winter range polygons. Approximately 4.0 ha of NAR overlap with moose winter range. This area is not associated with or adjacent to willow and red-osier dogwood complexes. Spur 1 and 2 are within moose winter range and will be deactivated following the achievement of regeneration delay or sooner.
4.12.5	Grizzly Bear	This block is not within Class 1 or 2 Grizzly Bear Habitat Complexes. There are no areas of grizzly bear foraging habitat > 1 ha within the harvest area of the cutblock. No roads will be built within 150m of identified high value grizzly bear habitat.
4.12.6	Goshawk	There are no known goshawk sites within 2 km of this block. Additionally, will be managed through Strategies in sections: <ul style="list-style-type: none"> • 4.2.1.1, • 4.2.6.1, • 4.2.5.1, • 4.2.7.1,

SITE PLAN

		<ul style="list-style-type: none"> • 4.2.8.1, • 4.2.9.1, • 4.13.6.1, and • 4.13.8.2.
4.12.7	Special Habitats for General Wildlife	N/A This block does not overlap with a Special Habitat for General Wildlife polygon.
4.12.8	Fur-Bearers	<p>Will be managed through Results and Strategies in sections 4.2.1.1, 4.2.1.2 and 4.2.2.1.</p> <p>There were no fisher or wolverine maternal den sites observed in the block.</p>
4.14	Visual Quality	
4.14.1	Visual Quality	N/A This block is not within a known scenic area.
4.15	Cedar Stand Reserves	
4.15.1	Cedar Stand Reserves	N/A. This block is not within FDU B.
5.1	Measures for Invasive Plants	
	Invasive Plants	<p>There were no invasive plants observed during block development.</p> <p>If more than 0.1 ha of contiguous mineral soil has been exposed (excluding active road prism) Canada No. 1 Suitable seed will be used to seed the area as soon as practicable, at least within nine months of completion of the activity causing soil exposure. All sites that are seeded will be inspected within 24 months of seeding to ensure efficacy of the treatment and will be re-seeded if necessary.</p> <p>Machinery used during primary forest activity should be cleaned and washed if it has worked in areas with known invasive plants.</p> <p>If an infection or infestation occurs, an attempt to eliminate it through an Invasive Pest Management Program will be made.</p>
5.2	Natural Range Barriers	
	Natural Range Barriers	N/A This block is not within an area subject to a range agreement.

F. ADMINISTRATION

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">RPF PRINTED NAME</td> <td style="padding: 2px;">RPF'S SIGNATURE and SEAL</td> </tr> <tr> <td style="padding: 5px;"> <div style="font-family: cursive; font-size: 1.2em; color: blue;">Mike Bandstra, RPF</div> </td> <td rowspan="3" style="text-align: center; vertical-align: middle;">  <div style="font-family: cursive; font-size: 1.2em; color: blue; margin-top: 10px;">Mike Bandstra</div> </td> </tr> <tr> <td style="padding: 2px;">DATE SIGNED</td> </tr> <tr> <td style="padding: 5px;"> <div style="font-family: cursive; font-size: 1.2em; color: blue;">July 1, 2019</div> </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> <p>I certify that this document is prepared to the standard expected of a member of the Association of British Columbia Forest Professionals</p> </td> </tr> </table>	RPF PRINTED NAME	RPF'S SIGNATURE and SEAL	<div style="font-family: cursive; font-size: 1.2em; color: blue;">Mike Bandstra, RPF</div>	 <div style="font-family: cursive; font-size: 1.2em; color: blue; margin-top: 10px;">Mike Bandstra</div>	DATE SIGNED	<div style="font-family: cursive; font-size: 1.2em; color: blue;">July 1, 2019</div>	<p>I certify that this document is prepared to the standard expected of a member of the Association of British Columbia Forest Professionals</p>		
RPF PRINTED NAME	RPF'S SIGNATURE and SEAL								
<div style="font-family: cursive; font-size: 1.2em; color: blue;">Mike Bandstra, RPF</div>	 <div style="font-family: cursive; font-size: 1.2em; color: blue; margin-top: 10px;">Mike Bandstra</div>								
DATE SIGNED									
<div style="font-family: cursive; font-size: 1.2em; color: blue;">July 1, 2019</div>									
<p>I certify that this document is prepared to the standard expected of a member of the Association of British Columbia Forest Professionals</p>									

SITE PLAN

LICENCE #	CUTTING PERMIT	BLOCK(s)	OPENING NUMBER - MAPSHEET	LOCATION	LATITUDE/LONGITUDE
A88973	7	1	103P057	~11km Borden Lake	55° 33' 32", 128° 46' 18"

1. ASSESSMENTS

1.1 Visual Assessments

Comments	This block has been strategically located to ensure that it does not fall within or adjacent to a visually sensitive polygon or scenic area.
-----------------	--

1.2 Pest Incidence Survey

Comments	There are no pest-specific concerns identified.
-----------------	---

1.3 Archaeological Impact Assessment

Comments	There are no Archaeological Sites protected by the Heritage Conservation Act within or adjacent to the block. A Cultural Heritage Resource Evaluation was completed for this block and no cultural resource features were identified.
-----------------	---

1.4 Terrain Stability Assessments

Comments	Through field assessments and prior to local knowledge of the area, it was determined that no indicators of slope instability were noted for this block and that the risk of any likely events would be low. A Terrain Stability Assessment is not required.
-----------------	--

1.5 Soil Assessments

HAZARD RATINGS				SOIL CHARACTERISTICS		
SU	Soil Comp.	Soil Erosion	Soil Displ.	Depth of Unfavourable Subsoil		Type of Unfavourable Subsoil
				Min(cm)	Max(cm)	
1	H	H	H	18	70	Bedrock
SU 1 Comments:		This block has been designed to minimize any areas where soil degradation may occur. This includes excluding areas of wet ground and known clay soils. In SU1 the soil disturbance levels have been set to 10%. Despite this, the block is very hummocky with short pitches of up to 76% encountered. Very dry summer required to operate and achieve soil disturbance limits.				

SITE PLAN

LICENCE #	CUTTING PERMIT	BLOCK(s)	OPENING NUMBER - MAPSHEET	LOCATION	LATITUDE/LONGITUDE
A88973	7	1	103P057	~11km Borden Lake	55° 33' 32", 128° 46' 18"

2. OTHER INFORMATION

Migratory Bird		
Beneficial Management Practice (BMP)	BMP PI2 Planned Retention around biodiversity anchors	WTRAs for this block are strategically located around areas with high populations of rare plant species. These WTRAs are located mostly around riparian features that provide higher potential for bird nesting habitat.
	BMP LO3 Unplanned, Unmarked Retention	Operators are to retain 2-3 trees of any species >17.5 cm DBH per ha as additional retention for potential nesting habitat. Dead trees identified for retention should be stubbed to 4-5meters. Additionally, any danger trees shall be felled. Based on the cruise data there is an estimated 16 snags/ha >17.5 cm DBH. In addition, there are 30 stems per ha of dead potential. These snag and dead potential amounts identified within the cruise are representative of what is in the WTRAs associated with this block, which have good structural diversity. These snags and dead potential trees within the WTRAs will provide additional bird nesting habitat within the block area.
	BMP LO1 Enduring Nest Identification	The identification and management of conspicuous and enduring nests was practiced during field activities. No nests were identified.
Comment	<p>This block was originally developed for BCTS. BC Timber Sales Skeena has implemented Guidance for Forest Sector Management of Nesting Migratory Birds in the Interior of British Columbia (version 2, June 29, 2017). This site plan is consistent with this guidance. The Nest Density ranking for this block is 5 within Canada Nesting Zone A2, which warrants a higher level of management emphasis for migratory birds.</p> <p>BEC: ICH Species Group: Cedar Hemlock Age Class: 9-250 + years (some areas of younger trees (Age Class 7 to 8) exist but overall, the block was classified as 250+ years old on average.) Height Class: 28.5m+</p> <p>The BCTS Skeena Migratory Birds Strategy and Procedure (July 21, 2017) has been followed for this site and the Beneficial Management Practices for Migratory Birds listed above have been implemented.</p>	

Wildlife Tree Patches		
ID #	Area	WTP Description
WTRA	7.0	HwSx- WTRAs are focussed around steeper features and wet ground to be excluded from the block.

Silviculture System		
SU	System	Reserve Type
1	CCRES	G
Current Stand Structure/Site Conditions		The current stand structure consists of a western hemlock dominated canopy with a subcomponent of spruce. The understory is not well developed, with no poles and only minimal saplings and regen.

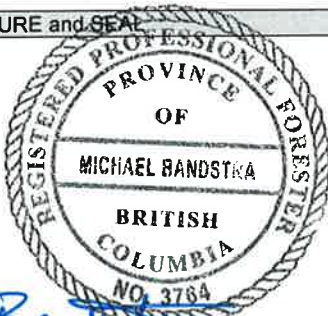
LEAVE TREE SPECIFICATIONS	
SU	Minimum Leave Tree Specifications
1,2	<p>Leave tree retention will provide structural diversity, perching/nesting habitat, and contribute to long term coarse woody debris.</p> <p>Retain one patch (20x20m) of understory per hectare throughout the block where occurring. These patches will include healthy poles (7.5 cm to 12.5 cm DBH) and saplings (1.3m height to 7.5 cm DBH) with good form and vigour. Target retention of poles and saplings with straight stems, free from scars and other damage, free from browse, and have a live crown and leader. Stub (3-10 stubs/ha) along the edge of patches (rub trees) to minimize damage from skidding activity. Focus on retention of large non-merchantable Coarse Woody Debris (greater than 10m length and 20cm DBH at butt) along the edges of these patches. Overall CWD targets should be 4 large logs per hectare.</p> <p>The following guidelines are meant to assist in selecting candidate leave trees within patches:</p>

SITE PLAN

	<ul style="list-style-type: none"> • Stem should be straight and free of scars or signs of other damage. • Tree should be free of browse damage. • Tree should have a live crown and leader. <p>Retain all deciduous trees as wildlife trees and for CWD recruitment, unless their removal is necessary for roadside processing or for safety reasons. Where retention of deciduous trees poses a threat to safety, deciduous trees will be stubbed and retained on-site to contribute to CWD targets.</p>
--	---

COARSE WOODY DEBRIS MANAGEMENT STRATEGY INFORMATION	
SU	
1, 2	<p>CWD levels in this block are low.</p> <p>Retain a minimum of 4 logs per hectare that are a minimum of 2m in length and 7.5 cm in diameter at one end. Focus on retention of large non-merchantable CWD (greater than 15m length and 20cm DBH at butt). Smaller pieces should also be retained, but the focus should be to maintain all possible larger stems within the strategies outlined. A focus should be on placing CWD aligned parallel and adjacent to the block boundary and WTRAs as small decks to provide potential habitat for furbearers.</p> <p>As a best management practice, it is preferred to have an even distribution of diameters and stages of decay up to 30m³/ha.</p> <p>Operationally, MINIMIZE IMPEDING PLANTER ACCESS by placing logs adjacent to targeted clumps of poles or saplings undamaged by harvest operations.</p> <ul style="list-style-type: none"> • Avoid placing long logs into processed piles for burning; pull out and return to the setting or hoe-chuck during piling operations. • Fall or stub non-merchantable trees and place in or alongside an existing clump where possible, or create a new clump or row to simulate natural dead-fall. • Ensure that the clumps are obvious or marked in some way so that the skidder operator can maintain them during skidding.

Riparian Assessments				
Stream Classification				
Stream ID	Stream Class	RMA Width (m)	Reserve Width (m)	RMZ Width (m)
S6	S6	20	10	10
NCD	NCD	N/A	N/A	N/A
Stream Management				
Stream ID	Harvesting (Y/N)	Management		
S6	N	This S6 stream flows through the length of the opening. A minimum 10m WTRA that will not be harvested has been applied to the reach when it is within the cutblock to minimize disturbance to the stream and to maintain stream bank integrity and vegetative cover along the riparian feature.		
NCD	Y	A 5m MFZ has been applied to portion of the NCD that is not contained within the WTP.		

RPF PRINTED NAME	RPF'S SIGNATURE and SEAL
Mike Bandstra, RPF	
DATE SIGNED	
July 1, 2019	
I certify that this document is prepared to the standard expected of a member of the Association of British Columbia Forest Professionals	

SITE PLAN

LICENCE #	CUTTING PERMIT	BLOCK(s)	OPENING NUMBER	LOCATION	LATITUDE/LONGITUDE
A88973	7	1	103P057	~11km Borden Lake	55° 33' 32", 128° 46' 18"

ECOLOGICAL INFORMATION

SU	ECO UNIT	NAR	ZONE	SUB-ZONE	VARIANT /PHASE	SITE SERIES	MIN	MAX	AVG	SLOPE POSTION	SOIL TEXTURE
1	A	26.0	ICH	mc	1	01-75% 03-25%	340	480	410	Middle Slope	Si

STOCKING REQUIREMENTS

Assessment Dates				
Standard Unit	Standard ID	Regen. Delay (yrs)	Freegrow Early (yrs)	Freegrow Late (yrs)
1	1054621	4		20

SU		1									
Preferred Species			Acceptable Species			Post spacing Density (sph)				Max Coniferous (sph)	
Species	Min. Ht. (m)	Footnote	Species	Min. Ht. (m)	Footnote	Min	800	Max	1600	10000	
Bl	1.0	29	Pl	2.0	b	Well Spaced Trees (sph)					
Hw	1.0	32	At	1.0		Target Pref/Acc	Minimum Pref/Acc	Minimum Pref	Min Horizontal Dist. Pref/Acc		
Sx	1.0	56	Ep	1.0							
Ba	1.0	50				1200	700	600	2.0*		
								Height Relative to Competition (%)			
								150			
Comments		Avoid planting lodgepole pine due to common occurrence of Dothistroma needle blight in juvenile pine stands and plantations in the area.									
		While At and Ep are acceptable species under this standard, they are not acceptable in this block as per Section 6 of this FSP because the original species composition of broadleaves is not >30%.									
		As per Objective 4.2.4 in the Gitanyow Huwilp Society FSP, plant a minimum of two different preferred tree species. One preferred tree species can be a maximum of 70% of the total planted trees.									

Advisory footnotes to "Preferred or "Acceptable" species in Table A1 and A2.

29 risk of heavy browsing by moose

32 limited by growing-season frost

50 restricted to those sites and site series where the species occurs as a major species (>20% of dominant and co-dominant sph) in the pre-harvest natural stand.

56 Kalum forest district- spruce content restricted to <20% well-spaced and free-growing trees on a standards unit due to leader weevil.

Footnotes to "Broadleaf" species in Table A1 and A2

a Species constitutes a productive, reliable, and feasible regeneration option, and subject to section 6 of this FSP, may be considered as "preferred" for regeneration in managed stands.

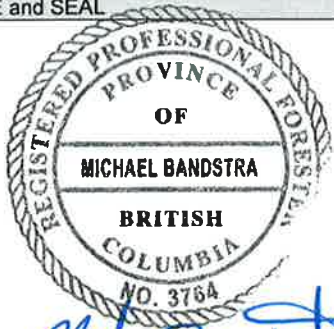
b Species is limited in productivity, reliability, and/or feasibility, and subject to section 6 of this FSP, may be considered as "acceptable" for regeneration in managed stands.

*Minimum horizontal inter-tree distance can be reduced to 1.6m if:

- immediately adjacent to any stream or riparian area, natural non-productive area or unplatable slash,

SITE PLAN

- on hygric or sub-hygric sites, or
 - trees are less than 10m from a permanent access structure.
- Minimum horizontal inter-tree distance can be reduced to 1.0m if on:
- colluvial or talus sites, or
 - mechanically prepared sites.

RPF PRINTED NAME	RPF'S SIGNATURE and SEAL
<p><i>Mike Bandstra, RPF</i></p>	
<p><i>July 1, 2019</i></p>	
<p>I certify that this document is prepared to the standard expected of a member of the Association of British Columbia Forest Professionals</p>	

