### "VOID" SILVICULTURE PRESCRIPTIONS

#### MAJOR LICENSEE/SMALL BUSINESS

		TSL		
			FP81A	8
		CP_		BLK
1	HADVECTING CLEDY			
1.	HARVESTING CLERK - update SP ledger/FTAS			
	- pull original and working file and attach the request to void	CD		
	- pair original and working the and attach the request to void	or		
2.	HISTORY RECORDS			
	- If duplicate, what is other CP #			
	77 30 77 77 77 77 77 77 77 77 77 77 77 77 77			<u> </u>
			- 1	
3.	TIMBER TENURES OFFICER/SMALL BUSINESS			
	- review and recommend to void SP		1	
4.	DISTRICT MANAGER		K	
	- review		)	
	- Void original SP	_	E.compress	
_		No. of Concession,		
5.	HARVESTING CLERK			
	<ul><li>update ledger/FTAS</li><li>photo copy /mail to Licensee (0006T)/file on working file</li></ul>			
	- make copy of SP for History Records & inspector			
	- make copy of SF for History Records & hispector			
6.	HISTORY RECORDS			
•	-FYI			
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7	HARVESTING CLERK			
	- file	_		
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### CP Surrender for Tembec Industries Inc. – Revised Jan. 15<sup>th</sup>, 2007

Tenure	СР	Block	Unharvested Or Partial Harvest	Additional Harvest Prior to CP Surrender	Date of CP Surrender	
A19040	181	235	unharvested	will complete blocks 231, 233, 236 & 237 prior to surrender	May 1/08	
				prior to surrender		
A18978	151	2	unharvested	none	Dec. 31/07	
Section of the sectio		3	partial harvest	will complete portions	Dec. 31/07	
				of blk 3 prior to CP		
				surrender	0	
2		4	unharvested	none	Dec. 31/07	
/		5	unharvested	none	Dec, 31/07	
$\checkmark$	156/	6	unharvested	none	Sept. 1/06	SP
	211	4	unharvested	none	Sept. 1/06	7
	<i>V</i>	5 /	unharvested	none	Sept. 1/06	SITE PLANS
	228	2	unharvested	none	Sept. 1/06	7
TFL 14	165	28	unharvested	none	Sept. 1/06	
\$8		29	unharvested	none	Sept. 1/06	1/
	165	30	unharvested	none	Sept. 1/06	<i>.</i> /
		/ 31	unharvested	none	Sept. 1/06	](
	/	32	unharvested	none	Sept. 1/06	\ <u>\</u>
et.		37	unharvested	none	Sept. 1/06	1
}		39	unharvested	none	Sept. 1/06	] ]
		44	unharvested	none	Sept. 1/06 ,	V
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#### TEMBEC INDUSTRIES INC.

SILVICULTURE PRESCRIPTION AMENDMENT Forest Resource Management - Kootenay North Region

A Silviculture Plan/ Amendment prepared in accordance with tection 35 of the Forest Practices Code of British Columbia Act (Bill 75-2002)

#### TENURE DESCRIPTION

Amendment #: 1		Map Sheet - Opening: 82J0	002/090
FL A18978 CP: 156		Block #: 006	Timbermark: EY6-156
Original SP or Last Amendment Date		Amendment is:	Advertisement
<del></del>		() Significant	() Attached
Original: December 19, 2001		(x) Not Significant	(x) N/A

#### REASON FOR AND DESCRIPTION OF AMENDMENT

Goshawks have constructed additional nests in the cutblock since this Prescription was approved in December of 2001. The nest trees and additional habitat in the vicinity has been reserved as Wildlife Tree Patch. The WTP is an addition to WTP #3 identified in the original SP.

Revised is Section A Area Summary and Section C Forest Resources Identified in the Forest Development Plan Requiring Certain Site Conditions After Harvesting or Site Treatment.

#### Amendments are in bold and italics.

#### From:

#### A. AREA SUMMARY (Hectares)

A. AREA SUMMART (fictuates)						
STANDARDS UNIT	TOTALAREA	NON PRODUCTIVE ROADS & A LANDINGS	PRODUCTIVE NATURAL	RESERVES	OTHER	NET AREA TO REFOREST
1	203.1	7.9	- Committee	16.8	8.7	169.7
TOTAL	203.1	7.9		16.8	8.7	169.7

#### COMMENTS:

The 'Reserve Other' refers to 8.0ha of Riparian Buffers established adjacent to S6 streams to ensure that harvesting does not increase sedimentation in the Lussier River and 0.7ha of mature timber that will provide stand structure. The reserves were recommendations from a Hydrologic Implication Report and field reviews.

#### To:

#### A. AREA SUMMARY (Hectares)

STANDARDS UNIT	TOTAL AREA	NON PRODUCTIVE ROADS & LANDINGS	NON PRODUCTIVE NATURAL	RESERVES	OTHER	NET AREA TO REFOREST
1	203. <b>0</b>	7.9	"	21.4	8.7	165.0
TOTAL	203.0	7.9		21.4	8.7	165.0

#### COMMENTS:

The 'Reserve Other' refers to 8.0ha of Riparian Buffers established adjacent to S6 streams to ensure that harvesting does not increase sedimentation in the Lussier River and 0.7ha of mature timber that will provide stand structure. The reserves were recommendations from a Hydrologic Implication Report and field reviews.

WTP #3 has been increased in size by 4.6 ha to provide Goshawk habitat.

#### From:

## C. FOREST RESOURCES IDENTIFIED IN THE FOREST DEVELOPMENT PLAN REQUIRING CERTAIN SITE CONDITIONS AFTER HARVESTING OR SITE TREATMENT:

FOREST RESOURCE VALUE	SITE CONDITIONS TO EXIST AFTER HARVEST OR SITE TREATMENT
Domestic Water Supply Intakes	Unnamed stream 1, a licensed stream (C036984LSE7777) was substantially diverted for domestic purposes immediately below the Ram Creek Forest Service Road (outside the proposed block). Where this stream flows through the proposed block, a minimum 20m wide riparian buffer was established adjacent to both sides of the stream, where no harvesting will be undertaken.
	BC Government line-work obtained from Forest Development Plan maps shows the domestic watershed to be south of the actual stream in an area de-void of streams.
Wildlife Habitat Feature	An active Goshawk nest was identified in the block. The Goshawk nest is 14.1m from the ground in a healthy aspen tree that is 44cm in diameter and 23.1m in height. The nest tree and several perch sites are incorporated into WTP #3. The silviculture system for the remainder of the block is single tree selection with a maximum 20 % basal area removal. A seasonal harvesting restriction has been prescribed to avoid disrupting the goshawks during their breeding period (see Section F for further details).
	Based on the lack of available information regarding Goshawks, it is unknown whether this system will ensure future re-occupancy of this Goshawk breeding territory. This nest and WTP are part of a Tembec experimental research and monitoring trial studying goshawk nest re-occupancy rates following various harvesting prescriptions (adaptive management).

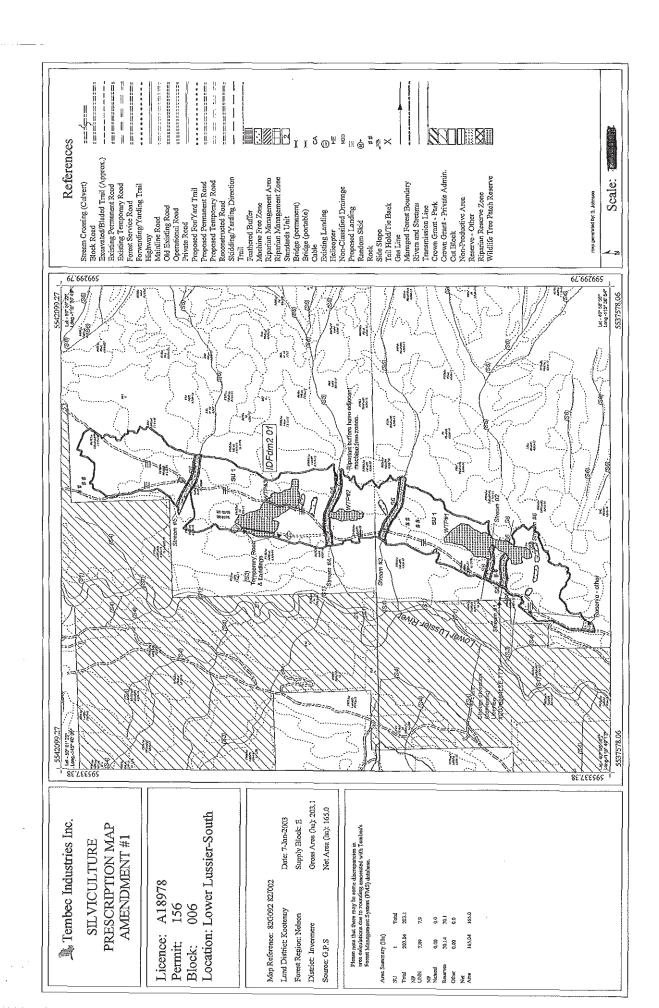
#### To:

# C. FOREST RESOURCES IDENTIFIED IN THE FOREST DEVELOPMENT PLAN REQUIRING CERTAIN SITE CONDITIONS AFTER HARVESTING OR SITE TREATMENT:

	DITIONS AN IER IMAGEDING ON BITE TREATMENT.
FOREST RESOURCE VALUE	SITE CONDITIONS TO EXIST ALTER HARVEST OR SITE TREATMENT
Domestic Water Supply Intakes	Unnamed stream 1, a icensed stream (C036984LSE7777) was substantially diverted for domestic purposes immediately below the Ram Creek Forest Service Road (outside the proposed block). Where this stream flows through the proposed block, a minimum 20m wide riparian buffer was established adjacent to both sides of the stream, where no harvesting will be undertaken.  BC Government line-work obtained from Forest Development Plan maps shows the domestic watershed to be south of the actual stream in an area de-void of streams.
Wildlife Habitat Feature	An active Goshawk nest was identified in the block. The Goshawk nest is 14.1m from the ground in a healthy aspen tree that is 44cm in diameter and 23.1m in height. The nest tree and several perch sites are incorporated into WTP #3. The silviculture system for the remainder of the block is single tree selection with a maximum 20 % basal area removal. A seasonal harvesting restriction has been prescribed to avoid disrupting the goshawks during their breeding period (see Section F for further details).
	WTP #3 is increased in size by 4.6ha to accommodate additional Goshawk nests constructed in the Spring of 2002.
	Based on the lack of available information regarding Goshawks, it is unknown whether this system will ensure future re-occupancy of this Goshawk breeding territory. This nest and WTP are part of a Tembec experimental research and monitoring trial studying goshawk nest re-occupancy rates following various harvesting prescriptions (adaptive management).

### I. ADMINISTRATION

Licensee acknowledgement of the requirements under Section 70 (4) of the Forest Practices Code of British Columbia Act.  TEMBEC INDUSTRIES INC.	"I certify that the work described herein fulfills standards acceptable to a Registered Professional Forester and that I did personally supervise the work."  Douglas R. Brayorook, R.P.F.		
Jan 2/03 Date	Jan. 2, 2003  Date		
Map Attached: YES	Doug Braybrook		
	Person completing this prescription		
B. Ministry of  District Manager or designate	Forest Approval  Jan. 29/43  Date		
District Manager or designate  Master SP Form Revised: June 5, 1998	Date		





#### TEMBEC INDUSTRIES INC.

NOV 2 1 2001 FORESTS

#### SILVICULTURE PRESCRIPTION

Canal Flats Area

A Prescription prepared in accordance with the requirements under Section 22 of the Forest Practices Code of British Columbia Act

Procedures required by the Operational Planning Regulation have been followed for any assessment that is required under section 37 or that is required to provide information referred to under section 39(3)(a). This Silviculture Prescription is consistent with the results or recommendations of any assessment required under section 37 of the Operational Planning Regulation.

The proposed silviculture prescription complies with section 7(4), 8(3) and 8(4) of the Timber Harvesting Practices Regulation with respect to prohibition against constructing excavated or bladed trails.

#### A. TENURE

LICENCE NUMBER:	CUTTING PERMIT:	BLOCK NUMBER:	LOCATION:		TIMBER MARK:
FL A18978	156	006	Lower Lussier South (Ram Creek Forest Service Road)		EY6-156
LICENSEE:		MAPSHEET / OPENING NO:	REGION:	DISTRICT:	TIMBER SUPPLY AREA:
Tembec Industries Inc.		82G.J002/90	Nelson	Invermere	Invermere

AREA SUMMARY (Hectares)

STANDARDS UNIT	TOTAL AREA	NON PRODUCTIVE ROADS & LANDINGS	NON PRODUCTIVE NATURAL	RESERVES	OTHER	NET AREA TO REFOREST
<sup>\</sup> 1	203.1	7.9		16.8	8.7	169.7
TOTAL	203.1	7.9		16.8	8.7	169.7

#### COMMENTS:

The 'Reserve Other' refers to 8.0ha of Riparian Buffer's established adjacent to S6 streams to ensure that harvesting does not increase sedimentation in the Lussier River and 0.7ha of mature timber that will provide stand structure. The reserves were recommendations from a Hydrologic Implication Report and field reviews.

#### B. LONG TERM MANAGEMENT OBJECTIVES:

(as set out in the FDP or as required to remain consistent with the Operational Planning Regulations)

- ♦ To manage for a mixed stand consisting primarily of Douglas fir and Western Larch while not significantly increasing the 'Equivalent Clearcut Area' of the Lussier River drainage.
- Future re-entries are subject to hydrological recovery of the Lussier River watershed.
- ♦ Harvesting will partially offset future mortality losses associated with Armillaria Root Disease and Douglas-fir Bark Beetle.

DATE: 01/12/27
BY: PDOMINUY
ISIS

#### C. MANAGEMENT MEASURES

#### COARSE WOODY DEBRIS

#### COARSE WOODY DEBRIS REQUIRED ( CONSISTENT WITH OBJECTIVES IN THE FOREST DEVELOPMENT PLAN):

The establishment of three Wildlife Tree Patches, two 'reserve others', six riparian buffers and a 20% maximum basal area removal for the remaining area will ensure that appropriate CWD is present.

Close utilization standards apply; however, future blowdown or breakage of residual stems will provide coarse woody debris to the site.

## FOREST RESOURCES IDENTIFIED IN THE FOREST DEVELOPMENT PLAN REQUIRING CERTAIN SITE CONDITIONS AFTER HARVESTING OR SITE TREATMENT:

FOREST RESOURCE VALUE	SITE CONDITIONS TO EXIST AFTER HARVEST OR SITE TREATMENT
Domestic Water Supply Intakes	Unnamed stream 1, a licensed stream (C036984LSE7777) was substantially diverted for domestic purposes immediately below the Ram Creek Forest Service Road (outside the proposed block). Where this stream flows through the proposed block, a minimum 20m wide riparian buffer was established adjacent to both sides of the stream, where no harvesting will be undertaken.
	BC Government line-work obtained from Forest Development Plan maps shows the domestic watershed to be south of the actual stream in an area de-void of streams.
Wildlife Habitat Feature	An active Goshawk nest was identified in the block. The Goshawk nest is 14.1m from the ground in a healthy aspen tree that is 44cm in diameter and 23.1m in height. The nest tree and several perch sites are incorporated into WTP #3. The silviculture system for the remainder of the block is single tree selection with a maximum 20 % basal area removal. A seasonal harvesting restriction has been prescribed to avoid disrupting the goshawks during their breeding period (see Section F for further details).
	Based on the lack of available information regarding Goshawks, it is unknown whether this system will ensure future re-occupancy of this Goshawk breeding territory. This nest and WTP are part of a Tembec experimental escarch and monitoring trial studying goshawk nest re-occupancy rates following variets harvesting prescriptions (adaptive management).

## KNOWN NON-TIMBER FOREST RESOURCES ON OR ADJACENT, REQUIRING CERTAIN SITE CONDITIONS AFTER HARVESTING OR SITE TREATMENT:

NON - TIMBER FOREST RESOURCE VALUE	SITE CONDITIONS TO EXIST AFTER HARVEST OR SITE TREATMENT
Ungulate Winter Range	The Kootenay Boundary Higher Level Plan Order has classified this area as a Fire-Maintained Ecosystem. The area is specifically identified as NDT 4 Managed Forest on BCFS Sheep Creek North Ecosystem Restoration Plan maps.
	Three Wildlife Tree Patches, two 'reserve others', six Riparian Buffers and a 20% maximum basal area removal will result in little change to ungulate forage/browse capability and thermal cover, thus Ungulate Winter Range conditions will remain similar to current conditions.

#### ARCHAEOLOGICAL SITES:

#### ACTIONS, IF ANY, NECESSARY TO ADEQUATELY MANAGE AND CONSERVE ARCHAEOLOGICAL SITE:

An AIA was completed for this block and two areas containing archaeological resources were removed from the harvest area. The AIA does not apply any further constraints nor is any further archaeological work required.

Print Date: 11/20/01

#### FOREST HEALTH

SIGNIFICANT FOREST HEALTH RISKS IDENTIFIED BY A PEST INCIDENCE SURVEY (IF REQUESTED BY DISTRICT MANAGER);

Minor amounts of Douglas Fir Bark Beetle (IBD) have been identified in the block in distinct centers. Approximately 1% of the stand is infested with IBD.

Moderate to high amounts of Armillaria Root Rot (DRA) has been identified throughout the block. Approximately 5% of the stand is infested with DRA.

PRESCRIBED MANAGEMENT MEASURES TO REDUCE SIGNIFICANT FOREST HEALTH RISKS IDENTIFIED BY SURVEY:

IBD: Douglas fir Beetle funnel traps were placed along the Ram Creek FSR on April 11, 2001. These traps will help monitor and control IBD. Harvesting will priorize infested Fd trees to minimize the spread of IBD.

DRA: Intensive treatment measures such as pushfalling/destumping will not be employed due to carbonates at 16-40cm depth, a high compaction hazard, hydrology concerns, and exposed parent material (bedrock) in some areas throughout the block. To minimize the spread of DRA Lw will be prioritized for retention and if spacing is required at a later date, handpulling will be the preferred method.

#### D. RIPARIAN ASSESSMENT / MANAGEMENT

NAME or DESCRIPTION	RIPARIAN CLASSIFICATION	RIPARIAN RESERVE ZONE WIDTH (M)	RIPARIAN MANAGEMENT ZONE WIDTH (M)	RIPARIAN MANAGEMENT ZONE RETENTION (sph or rba)
Stream 1	S6	0	20	All - 500 sph
Stream 2	S6	0	20	All - 500 sph
Stream 3	S6	0	20	All - 500 sph
Stream 4	S6	0_	20	All - 500 sph
Stream 5	S6		20	All - 500 sph
Stream 6	S6		20	480-500 sph

DESCRIPTION OF THE PURPOSE AND EXTENT OF ANY REMOVAL OR MODIFICATION OF TREES PLANNED FOR THE RRZ:

None.

#### IN ABSENCE OF RRZ, MEASURES FOR PROTECTING STREAM BANKS:

The RMZ's for Streams 1 through 5 are located in areas designated as Riparian Buffers, where no harvesting activities will be undertaken. A minimum of 20m (20m-50m range) has been reserved along both side of these streams. A 10m wide Riparian Buffer is established adjacent to both sides of the Stream 6 because the stream disappears underground and is not tributary to the Lussier River. As described in Section A, these areas are retained for hydrologic purposes (minimizing sedimentation in the Lussier River Drainage). These measures will also protect the stream banks.

In addition, minimum 15m wide "Machine Free Zones" have been established adjacent to both sides of all riparian buffers.

FALLING OR YARDING ACROSS STREAM (INCLUDE DEBRIS MANAGEMENT MEASURES WHEN PROPOSED);

Not applicable (all streams in buffers).

SHADE MAINTENANCE MEASURES FOR KNOWN TEMPERATURE SENSITIVE STREAMS:

N/A

#### COMMENTS:

Species composition varies throughout the riparian buffers and all stems will remain consisting of Fd, Lw, Ep, At, Sx and Pl. All stems (500 sph) will remain in the RMZ's of Streams 1 to 5.

All stems (600 sph) will remain in the inner 10m of the RMZ (Riparian Buffer) adjacent to Stream 6. 80% of the basal area (approx. 480 sph) will be retained in the remainder of the RMZ for stream 6. See Section G for further details.

#### E. SOIL CONSERVATION

HAZARD RATINGS (if the harvest method is other than cable or aerial) & SOIL DISTURBANCE

STANDARDS UNIT	SOIL COMPACTION AND PUDDLING HAZARD	SOIL DISPLACEMENT HAZARD	SURFACE SOIL EROSION HAZARD	MAXIMUM PROPORTION OF NET AREA TO BE REFORESTED THAT MAY BE OCCUPIED BY SOIL DISTURBANCE (%)
1	High	Moderate	High	10

#### COMMENTS:

The soil compaction hazard ranged from Low to Very High. On average it is high. Only one soil pit out of twenty five contained clay. Clay was observed at 20cm depth in this pit, however the SU will be managed as a high compaction hazard.

The soil displacement hazard ranged from Low to High. On average it is Moderate.

The surface soil erosion hazard ranges from Low to High. On average it is High.

#### PERMANENT ACCESS STRUCTURES

MAXIMUM PROPORTION OF TOTAL AREA TO BE OCCUPIED BY PERMANENT ACCESS STRUCTURES:

5 %

#### COMMENTS:

Although a maximum 20% basal area removal is planned for the area, all skidtrails will be managed as temporary access structures. Permanent skidtrails are not being used due to hydrological concerns and an unknown re-entry date that depends on hydrological recovery of the Lussier River Watershell.

#### TEMPORARY ACCESS STRUCTURES

#### COMMENTS:

A temporary road and two temporary landings are proposed for the block. The temporary road is to be rehabilitated as per Section 14 of the Timber Harvesting Practices Regulation (THPR) and the temporary landings are to be rehabilitated as per Section 17 of the THPR.

Exposed Parent Material (bedrock) is scattered throughout the proposed block.

STANDARDS UNIT	MAXIMUM EXTENT TO WHICH THE MAXIMUM SOIL DISTURBANCE MAY BE TEMPORARILY EXCEEDED TO CONSTRUCT TEMPORARY ACCESS STRUCTURES (%)	MAXIMUM TIME TO COMPLETE REHABILITATION OF TEMPORARY ACCESS STRUCTURES AFTER THE COMPLETION OF HARVESTING (years)	TYPE / DEPTH TO UNFAVOURABLE SUBSOIL (cm)
1	3	2	16-40cm (carbonates) 45-60cm (parent material) 52+ cm (water and root restricting – rock)

Print Date: 11/20/01

FNR-2011-00107

#### EXCAVATED OR BLADED TRAILS

PORTIONS OF CUTBLOCK WHERE EXCAVATED OR BLADED TRAILS MAY BE CONSTRUCTED:	MAXIMUM HEIGHT OF CUTBANK OF EXCAVATED OR BLADED TRAILS (M)	AVERAGE HEIGHT OF CUTBANK OF EXCAVATED OR BLADED TRAILS (M)	ANY EQUIPMENT OTHER THAN EXCAVATOR PLANNED FOR CONSTRUCTION OF EXCAVATED OR BLADED TRAILS
Throughout the block, excluding 'Machine Free Zones', Reserves (WTP's, Reserve others and Riparian Buffers), and on slopes >40%.	1	0.5	Bulldozer

#### COMMENTS:

Temporary access structures may not be constructed on sideslopes exceeding 40%.

A bulldozer may be used for trail construction where appropriate (i.e. lesser slopes).

On small areas the maximum height of cutbank of excavated or bladed trails may be exceeded where required to better utilize terrain features and reduce total soil disturbance.

#### F. CRITICAL SITE CONDITIONS FOR OPERATIONS AFFECTING TIMING

STANDARDS UNIT	CRITICAL SITE CONDITION	OPERATIONAL CONSTRAINT
1	Northern Goshawk	Harvesting activities south of Stream 5 are prohibited during the breeding period from March 15 to September 1.
1	High Compaction	Due to the high compaction hazard, harvesting activities will only be undertaken on designated trails or when soil conditions are suitable (i.e.: dry, frozen, or snow cover of adequate depth).

Danger trees, damaged trees, and tail holds / tiebacks (where applicable) outside the block boundary may be felled, yarded and utilized. These small areas located outside the block boundary are exempted from the requirements of a forest development plan and silviculture prescription under the authority provided in sections 28(1)(a), 30(1)(b) and 30(1)(c) of the Forest Practices Code of British Columbia Act. The District Manager's approval of this silviculture prescription constitutes approval of this exemption.

CP 156 BLOCK 006

PAGE 5 Page 11 FNR-2011-00107

Print Date: 11/20/01

#### G. SILVICULTURE SYSTEM

#### STANDARDS UNIT:

SILVICULTURAL SYSTEM:

Single Tree Selection

#### STAND STRUCTURE & COMPOSITION GOALS:

The present stand is comprised primarily of Fd and Lw. Species composition, density, age, and size vary throughout the block. Areas exist containing primarily Lw, however the majority of the stand consists of Fd. Minor components of Pl, Py, Ep, At and Sx can also be found scattered throughout the block.

Densities for this multi-layered stand vary from 100-1000 sph, with an average of 500sph. Basal area varies from 10-50  $m^2$ /ha with an average of 27.3  $m^2$ /ha for all diameter classes. Average basal areas for the following diameter classes are as follows: DBH 20-40cm = 19.4  $m^2$ /ha; DBH 40-60cm = 7.4  $m^2$ /ha; DBH 60cm+ = 0.5  $m^2$ /ha. The short-term goal is to remove an average of 5.5  $m^2$ /ha (20% of the stands basal area), while maintaining a multi-layered, uneven-aged stand.

All stems >45cm DBH and all Py, Ep, At & Sx will be reserved, except where they must be removed to facilitate skidtrail construction or if infested with Armillaria Root Rot/Douglas fir Bark Beetle. When identifying trees to be cut, preference will be given first to Fd showing signs of Douglas fir bark beetle/ Armillaria root rot, second to Pl, third to healthy Fd, and lastly to Lw. Small openings, 2 tree lengths in size maximum, may be created to remove patches of Fd affected by Douglas fir bark beetle/Armillaria root rot and to remove Pl patches, however the objective is a single tree removal.

Included in the  $5.5~\text{m}^2$ /ha (20% removal) are areas removed for skidtrail construction (approx. 5%), patches of Pl (approx. 1%), and patches of Fd affected by pests and disease (approx. 6%). The remaining 8% (approx. 2.2  $\text{m}^2$ /ha) will taken from the healthy Fd and Lw throughout the stand, with preference give to Fd. Remaining basal area will vary from  $4.5~\text{-}44.5~\text{m}^2$ /ha, with an average of  $21.8~\text{m}^2$ /ha.

#### SPECIES AND FUNCTION OF TREES TO BE LEFT STANDING:

#### HARVEST AREA:

OVERSTORY: The prescription is to reserve 80% of the basal area.

Sx, Py, Ep and At: Reserve all Sx, Py, Ep and At, except those that must be removed to facilitate skidtrail construction.

Pl: Remove all merchantable Pl >15cm dbh.

Fd: Reserve all Fd >45cm dbh, except those removed for skieltrals and DRA/IBD infestations. Other than skieltrails and IBD/DRA infestations, a relatively uniform removal is to occur ever the remainder of the block. Fd is a priority for removal over Lw.

Lw: Reserve all Lw >45 cm dbh, except those removed for skidtrails. Lw may be removed only when no other species are present for harvesting. As described above Fd is a priority for removal over Lw.

The maximum opening size that may be created is 2 treelengths where required to address forest health issues and to remove Pl.

The average post harvest basal area by diameter class will be: 20-40cm = 15.96m2/ha; 40-60cm = 5.38m2/ha; 60+cm = 0.45m2/ha

#### UNDERSTORY:

All non-merchantable stems will be reserved from harvest. These stems consist primarily of Fd, with minor components of Lw and Sx. The understory is distributed very unevenly throughout the block, with openings containing 2000+ sph, and other areas under greater crown closure having less than 100 sph. Up to 15% of the understory may be removed to facilitate falling and skidding.

#### WILDLIFE TREE PATCHES:

WTP #1 contains Stream 1 (domestic watershed, license # C036984LSE7777) and Stream 2. The WTP contains rocky inoperable ground on 35% slopes and mature Fd, Lw and patches of Ep. Also found in the WTP are dead and dying trees, Armillaria Root Rot, large pieces of CWD and uprooted trees, trees with cavities, veteran trees, game trails and a well developed shrub layer.

WTP #2 is adjacent to Stream 4 and contains rocky ground with scattered live and dead Fd. The fir are very branchy and of poor form. Also found in the WTP is Armillaria Root Rot.

WTP #3 contains an active (active in 2001) Goshawk nest and good quality mature Fd, Lw, Ep and Sx. Also found in the WTP are dead and dying trees, Armillaria Root Rot, trees with cavities, game trails, uprooted trees and bedrock outcrops. The Goshawk nest was observed to be active and produce young in Spring/Summer of 1999 and 2001.

#### RESERVE OTHER:

Two areas were removed from the harvest area and placed in reserves that will provide stand structure. These areas contain predominantly Fd.

COMMENTS: All leave trees must comply with WCB safety regulations.

Overstory and understory stems are being retained to create/maintain a multi-layered/uneven-aged stand.

SILVICULTURE PRESCRIPTION

CP 156 BLOCK 006

Print Date: 01/12/05

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#### H. STOCKING STANDARDS

STANDARDS UNIT:	BIOGEOCLIMATIC ZONE	SUBZONE	VARIANT	SITE SERIES
1	IDF	dm	2	01 (04)

REGEN DELAY (YEARS):	PREFERRED SPECIES:		ACCEPTABLE SPECIES:		
7	Fd, Lv	v, Pl, Py			
PREFERRED WELL SPACED STEMS / HA	PREFERRED & ACCEPTABLE WELL SPACED STEMS/HA		MINIMUM HORIZONTAL DISTANCE FOR WELL SPACED TREES	MINIMUM PRUNING HEIGHT AT END OF FREE GROWING FOR WHITE PINE BLISTER RUST OR WILDLIFE HABITAT OBJECTIVES:	
MINIMUM:	TARGET:	MINIMUM:	(METERS):	(ME)	TERS)
Layer 1 – 200	400	200		N/A	
Layer 2 – 250	600	300	2.0		
Layer 3 – 300	800	400	2.0		
Layer 4 – 400	1000	500	2.0		
POST SPACING DENSITY (TOTAL COUNTABLE CONIFERS / HA) at free growing MIN: MAX:	ASSESSME	ROWING ENT PERIOD ARS)	FREE GROWING MINIMUM TREE HEIGHT (METERS):	FREE GROWING TREE HEIGHT RELATIVE TO COMPETITION (%):	MAXIMUM COUNTABLE CONIFERS at free growing (ST/HA):
500 1600	12	15	Pl, Lw 1.0 Fd 0.8	125	10 000 Layer 3 only
	: : 		Others 0.6		

#### ADVANCED REGENERATION ACCEPTABILITY CRITERIA AT FREE GROWING:

The criteria as outlined in the Invermere Forest District Advanced Regeneration Free Growing Acceptability Standards (enacted on August 1, 1997) will be used in determining advanced regeneration acceptability.

#### RATIONALE FOR VARIATIONS TO PROVINCIAL SILVICULTURE STOCKING STANDARDS GUIDELINES:

The maximum spacing density has been increased by 600 sph to account for stem mortality caused from snow press, insects and disease.

#### COMMENTS:

Minimum inter-tree spacing will be 1m for up to one tree per 3.99m survey plot. The reduced inter-tree spacing is required to allow planters to use the best microsites while considering planted and natural stems if artificial reforestation is employed.

If stocking levels drop below minimum numbers at the expiry of the free growing date and it can be determined that Armillaria ostoyae is the cause of mortality, in spite of the prescribed DRA management strategy, and all other free growing requirements have been met, then the stocking standards may be amended to actual stocking levels, at the discretion of the District Manager.

Livestock grazing is not proposed to be carried out as a vegetation management treatment on the area under this prescription.

Print Date: 11/20/01

#### I. ADMINISTRATION

Licensee acknowledgement of the requirements under Section 70 (4) of the Forest Practices Code of British Columbia Act.  TEMBEC INDUSTRIES INC.	"I certify that the work described herein fulfills standards acceptable to a Registered Professional Forester and that I did personally supervise the work."  Douglas R. Braybrook, R.P.F.
Nov 22/67 Date	Nov. 20/01 Date
Map Attached: YES	4AFS Ltd. – Dan Foraie/Tembec - Doug Braybrook
	Person completing this prescription
	10 1001
B.C. Ministry	f Forests Approval
Kiteweryo //	Dec 19/01
S. A. Pereverzoff, District Manager	Date

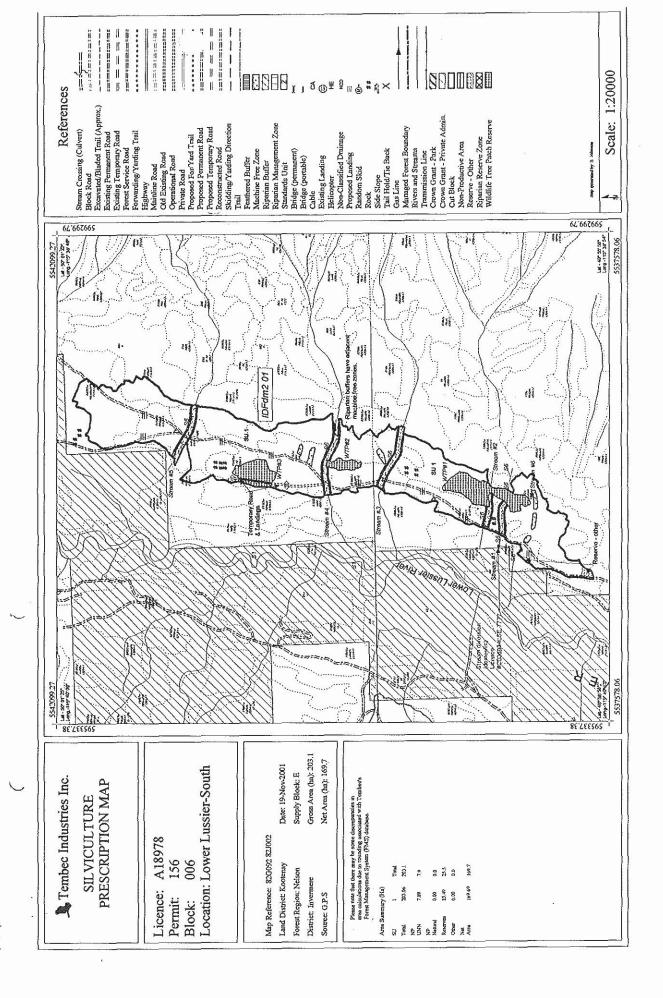
Master SP Form Revised: June 5, 1998

Species abbreviations:

Pl - interior lodgepole pine; Fd- interior Douglas-fir; Py - yellow pine; Lw - western larch; Sx - hybrid spruce; Se - engelmann spruce; At - trembling aspen; Ep - paper birch; Bl - subalpine fir (balsam).

156 006 CP 1885 BLOCK 1885

PAGE 8 Page 14 FNR-2011-00107



## **CP DELETION ROUTE TAG**

LICENSE: A	8978	_CP:/ <u>56</u> Location:	
EXPIRY DATE	Much	31/2007	

	Days	Initial/Date
RESOURCE CLERK	5	Sp.
- Print expiry report from FTA (or at licensee's request) - E-mail C&E for information only		07/03/15
RESOURCE CLERK  - Attach route tag to file - Check RESULTS for data - If no data, e-mail licensee & C&E forester - HOLD for data	15	UB.
- Once data received - Enter hectares logged on each blocklogging start datelogging completion date - Change block status to "S" - Change CP status to "HC" - If reported in Results all Info will be in FTA - change status - Delete CP from G: drive		
WASTE AND RESIDUE  - Ensure waste billing is complete	R.M.	Note 1 1 106
RESOURCE CLERK  - E-mail C&E Tech advising CP deleted - copy of Route tag for Q&A - Forward file to filing for deletion		28 03/24
FILE CLERK - Close file	10	



Division BRITISH COLUMBIA Division

RECEITED

AUG 18 2004

MINISTRY OF FORESTS

**CRANBROOK BC** 

Téléppone : (250) 349-5294 Télée pieur / Fax : (250) 349-5250

**KOOTENAY NORTH** 9006 Grainger Road P.O. Box 68

Canal Flats, British Columbia V0B 1B0

August 16, 2004

Ministry of Forests 1902 Theatre Rd. Cranbrook, B.C. V1C 6H3

File: FL A18978

CP 156, 186, 206, 212, 216

Attention:

Tony Wideski, District Manager

Dear Sir:

Digital files have been submitted to your office for the blocks listed below. The Site Plans and/or Silviculture Prescriptions were amended accordingly and do not require District Manager (DM) approval.

Location	_ CP	Block	Operational Plan	Reason for Amendment
Ram Creek	156	006	Silviculture Prescription	0.1 ha's of block added to existing WTP#3 due to active Goshawk nest.
Nippin Creek	186.	002	Silviculture Prescription	0.7 ha's of block added to existing WTP due to active Goshawk nest.
Doctor Creek	206	001	Site Plan	1.7 ha's of MPB salvage added to block.
Whitetail Brook	212	003	Site Plan	1.5 ha's of block incorporated into a WTP due to active Cooper Hawk nest.
Koos Creek	216	004	Site Plan	0.2 ha's added to block.

If you have any further questions or concerns please contact Glen Kovacic (extension 127) at our Canal Flats office.

Barry Benson, R.P.F.

Planning Superintendent, Kootenay North Region

/gk

INFORMATION





## Province of British Columbia

Ministry of Forests



## **MEMORANDUM**

no additional Concerns

December 5, 2001

TO:

Serg Pereverzoff

District Manager

FROM:

Kelly Love

Silviculture Prescription Forester

FILE:

19500-40 FL A18978 CP 156 Ram Creek

RE: Attached SP for FL A18978 CP 156 Block 6

Please find attached the SP for the above block.

#### SILVICULTURE SYSTEMS FIELD INSPECTIONS

BLOCK	Silviculture System	Field Inspections
6	Single Tree Selection 20% Removal	Jablanczy Smedstad

#### COMMENTS

A field review of the block was also carried out by Barry Benson & Doug Braybrook of Tembec, Mark Smedstad & Emile Begin of the MoF, and John Bergenske of EKES.

The SP was prepared by Tembec in consultation & concurrence with the Sheep Creek Residents and Martin Carver, the Sheep Creek Residents' Consulting Hydrologist. As indicated in Section G of the SP, the prescription is for a light partial cut, removing 20% of the pre-harvest basal area.

The Sheep Creek Residents and the Forest Service have agreed there will be no more harvesting in the area until significant hydrological recovery has occurred. This is also supported by Dave Glunns, the Regional Forest Service Hydrologist.

what area??

Page 18 FNR-2011-00107

#### **ISSUES & RISK FACTORS**

#### FDP Compliance/Block Size

This block is included in FDP Amendment #12, which has been approved. The block is over 200 ha in size, which has been approved via the FDP Amendment. The retention level is 80% of the pre-harvest basal area.

#### **HLP Compliance**

HLP compliance was examined during the review of FDP Amendment # 12. A copy of the HLP Checklist is attached.

#### Description of Single Tree Selection System - Section G of SP

The SP prescribes a Single Tree Selection System.

In our SP comments we recommended that the SP provide the Planned Residual Stand Structure by 10 cm diameter classes as per page 33 of the SP Guidebook (attached.)

Tembec indicated that a breakdown by 10 cm classes is of little use to their loggers. Their assessment is that broader diameter classes are more useful for loggers. Tembec also indicated that as per paragraph 4 on page 6 of the SP, only 8% of the basal area is prescribed for removal outside of Skid Trails, Pl patches, and Fd infected by pests and disease, and that as per paragraph 3 essentially all stems > 45 cm are reserved.

The post-harvest basal area by diameter class is indicated approximately half way down the box on page 6 of the SP. The attached Dec. 5, 2001 Tembec email and table provide the basis for harvest levels for the 3 diameter classes.

#### **DRA Risk**

As indicated on page 3 of the SP under Forest Health, there are moderate to high levels of DRA in the block. Because of the presence of carbonates, the high compaction hazard, and hydrological concerns, stumping is not prescribed.

The SP was reviewed by Emile Begin, the District Forest Health Officer, and he expressed concerns for increased levels of DRA after harvesting. This is outlined in his attached email of Sept. 21, 2001.

#### Very High Compaction Hazard Soil Disturbance Limits

The comments under Soil Conservation on page 4 of the SP indicate that the soil compaction ranged from Low to Very High on this 203 hectare block. Generally past practice has been to prescribe for the most limiting factors, if the areas with the most limiting factors are not stratified into separate SUs. This has not been done in this case and some areas of Very High Compaction may have soil disturbance levels of 10% plus 5%, rather than the recommended limits of 5% plus 5%.

#### WTP Number 3

In his SP comments Peter Holmes expressed concerns with the road through WTP 3. WTP 3 contains a goshawk nest as indicated on page 2 of the SP under the heading Wildlife Habitat Feature.

This was discussed with Doug Braybrook of Tembec. Doug indicated that the WTP was originally smaller, but was increased to its present size because of recommendations by Tembec's biologists to address concerns for the goshawk nest. As also noted on page 4 of the SP under Temporary Access Structures and on the SP map, the Road and Landing in WTP 3 are temporary access structures, and they will be rehabilitated.

#### **AIA**

As indicated on page 2 of the SP, two areas identified in the AIA have been removed from the harvest area. These areas were originally identified on the SP map as Cultural Heritage Reserves. In our SP comments we requested that Tember remove this designation to help protect the confidentiality of the archaeological values. This has been done, and the SP no longer refers to Cultural Heritage Reserves.

#### FOREST PRACTICES CODE

Compliance with the Code was noted in the attached FPC Checklist.

#### RECOMMENDATION

Reviews by the Silviculture Prescription Forester and the Silviculture Audit Forester indicate that the SP meets the legal requirements of the FPC. Based on these reviews and the information noted above, the SP is recommended for approval subject to your agreement that the issues and risk factors noted above have been adequately addressed by Tembec.

Kelly/Love

Silviculture Prescription Forester

Attachments: SP

CP 156 FDP Amendment # 12 HLP Checklist

✓ SP Guidebook page 33

✓Email of Dec. 5, 2001 from Tembec regarding post harvest basal area

✓Email of Sept. 21, 2001 from Emile Begin regarding DRA concerns

✓FPC Checklist

pc Mark Smedstad, RA Timber

#### FOREST DEVELOPMENT PLAN AMENDMENT - HIGHER LEVEL PLAN CHECKLIST

LICENSE:

FLA18978

**FDP:** 2000-2004 **Amendment** # 12 **CP:** 

156 Date: September 13, 2001

SECTION	DESCRIPTION	Yes/No/ N/A
BIODIVERSITY EMPHASIS	BEO as assigned by HLP Order map 1.1 Low	Yes
OLD AND	LU is in deficit for Old and Old+Mature	Yes
MATURE	Propose variance from HLP strategies document: As per objective 2(5) of the strategies document mature forest is being retained via the 20% removal prescription.	Yes
	Footnote J allows for the use of stand structure attributes in lieu of age with DM/DEO agreement (Pl rule)	N/A
	S. 2(2) allows, when recruiting, younger seral stages and protracted time frames with DM/DEO agreement.	N/A
	S. 2(3) allows the use of forest stands one age class less up to 25% of the mature component only in order to provide short term flexibility for FDP's	N/A
	Partial cutting to retain mature forest attributes (70% BA retention): As described above	Yes
	Broad scale variances provided in Delegation Letter (RM & Regional Director Level)	N/A
CARIBOU	Proposed block or road is within Caribou Habitat Area map 3.1	No
	Proposals within Caribou Habitat area will be consistent with table 3.1 and strategies document. Rationale attached.	N/A
GREEN-UP PATCH	Openings greater than 40 ha proposed	Yes
SIZE	Openings greater than 40 ha consistent with the DM policy for OPR's 11(2)(b): 20% max BA removal and also approved in the FDP	·Yes
GRIZZLY BEAR HABITAT &	Connectivity-proposal is within a "red flagged" BEC – Refer to MOF and MOE Rationale: Maximum 20% BA removal will not impact connectivity.	Yes
CONNECTIVITY	Grizzly Bear Habitat- Proposal is within 50 m of an Avalanche Track – Attach MOE comments	No
CONSUMPTIVE USE STREAMS	A C.U.S. (Domestic Watershed) is located within the block although its actual location is different from that shown on the FDP. The actual domestic watershed diversion is shown on the Silviculture Prescription map.	Yes
	Proposals adjacent to CUS respect Streamside Management Zone: A buffer up to 50m wide has been established upstream of the intake. For all intents and purposes this could be referred to as a streamside management zone although it is not a legal requirement in this case.	Yes
ENHANCED RESOURCE DEVELOPMENT ZONES-TIMBER	This objective is not in effect, see HLP S. 7(2) Transition	N/A
FIRE MAINTAINED	Proposal is within NDT 4	Yes
ECOSYSTEMS	Proposal is consistent with NDT 4 plan: Hydrology constraints preclude ungulate winter range restoration.	No
VISUALS	Proposal is within Scenic Area	No
	Proposals within scenic areas are consistent with objectives.	N/A



Ministry of Forests



## FILE NOTE

SUBJECT: FDP Amendment #12	DATE: 15 OCT /2000 FILE NO. Tember FL
ATTENTION: FILE	CP 156
REMARKS:	·
Steve Jablanezey indica FDP Amendment # 12	tes that
FDP Amendment # 12	is approved.
- de	
	<b></b>
	:

S	il	٧	į
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G.1 SI	LVICULTURAL	SYSTEMS
SU		SILVICULTURAL SYSTEM / VARIANT / PHASE
Α	Strip shelterwood	
SU		RESIDUAL STAND STRUCTURE
Α		BA (m²/ha)
		A target basal area of 25 m²/ha will be retained after the first entry.
SU	,	COMMENTS
А	STAND STRUCTURE AND SITE CONDITION	This stand is currently dominated by age class 8 (141–250 years) Cw and Hw (with a minor component of Ac) averaging 34 m in height. In order to provide a suitable environment for Cw, Hw, and Ss regeneration, the stand will be harvested in strips with a maximum width of 40 m. Residual strips will be of equivalent width.
A	LEAVE TREE SPECIES AND FUNCTIONS	Residual strips will include the main species components of the current stand (Cw, Hw, and Ac). Strips will be in an east—west orientation whenever possible to maximize shade production and to reduce blow-down potential from outflow winds blowing from the southeast.

Figure 26. Example silvicultural system – strip shelterwood.

G.1 S	ILVICULTURA	AL SY	STEMS							
SU		SILVICULTURAL SYSTEM / VARIANT / PHASE								
	Single tree s	election								_
SU				RESI	DUAL STAN	ID STRUCT	URE			
Α					BA (m	ı²/ha)		• • • • • • • • • • • • • • • • • • • •		
					20	)				
SU					COMM	ENTS				
А	STAND STRUCTURE AND SITE CONDITION	expected to retain similar stand structure. The stocking table below illustrates the planned					are anned			
A	LEAVE TREE SPECIES AND FUNCTIONS  The desired post-harvest composition is Hw <sub>40</sub> Cw <sub>40</sub> Ba <sub>20</sub> . The function of leave trees is to provide suitable conditions for regeneration, to mitigate visual concerns in this visually sensitive landscape, and to allow for another harvest entry in approximately 25 years. In addition, all Ba greater than 50 cm dbh will be retained as wildlife trees and for recruitment or large CWD.						lly s. In			
SU		arrives.		PLANN	ED RESIDU	JAL STRUC	TURE			
A							45.1— 50.0+	TOTAL		
A	APPROX. DENSITY	600	210	100	80	50	30	20	10	1100
	(stems/ha)									

Figure 27. Example silvicultural system – single tree selection.

### Love, Kelly FOR:EX

From: Sent:

Doug Braybrook [dbraybrook@crestbrook.com] Wednesday, December 05, 2001 11:13 AM Love, Kelly FOR:EX

To: Subject: CP 156-006 BA retention



Basal Area...

Hi Kelly

Enclosed is a table that I generated this morning showing how I get to the BA retention numbers prescribed in the SP. I am sending it to you FYI.

Doug Braybrook, RPF Canal Flats, Area Forester

### CP 156 Post Harvest Basal Area

DIAMETER CLASS	ORIGINAL AVERAGE BASAL AREA (m²/ha)	SKIDTRAIL VOLUME REMOVAL (5%) (m²/ha)	PI VOLUME REMOVAL (1%) (m²/ha)	DISEASE VOLUME REMOVAL (6%) (m²/ha)	HEALTHY Fd & Lw VOLUME REMOVAL (8%) (m²/ha)	POST HARVEST AVERAGE BASAL AREA RETENTION (m²/ha)
20-40cm	19.4	0.97	0.19	1.14	1.14	15.96
40-60cm	7.4	0.37	0.07	0.44	1.14	5,38
60+¢m	0.5	0,02	44	0.03	•	0,45
TOTAL						21.79

#### Love, Kelly FOR:EX

From:

Begin, Emile FOR:EX

Sent:

Friday, September 21, 2001 9:09 AM

To:

Love, Kelly FOR:EX

Subject:

RE: Tembec CP 156 Block 6 Ram Creek

Hi Kelly. I have been involved with the public meetings and field trips for this block. I have also placed the funnel traps with the residents and provided them with some information on Fir beetle and root rot. I have also expressed my concerns regarding the effects partial harvesting combined with the observable Armillaria root rot levels could have on this forest and the SP.

There may be an opportunity to use Hypholoma in this area to manage root rot. However, because of the water concerns, and the current research nature of the Hypholoma treatment we have chosen to not apply Hypholoma here. The research is very promising however, not certain enough to apply in this location at this time. Hand pulling may help however, the partial harvesting will cause a substantial increase in the root rot levels. That remains a concern for me. We may see a root rot response in as little as 6 months (i.e. mortality of residual mature and immature trees) or not for several years.

While the harvesting will reduce the initial Fir beetle concerns it may contribute to an increase later. We will need to monitor this area for a few years after the treatment and see what happens. Soils concerns do prevent a mechanical root rot treatment....Hypholoma may be a future help. Funnel traps for Fir beetle is effective and will also help. The root rot is adding a level of uncertainty to this treatment that is not readily definable or agreed upon by many people given our current level of knowledge.

I would anticipate higher levels of immature stand pest activity due to root rot.

I think the SP provides an option for harvesting that reflects the view of a few people. It suggests that root rot concerns are not as critical as the forest health community considers them to be. However, there is a limited amount of quantifiable impact information on the effects caused by Armillaria root rot when viewed on a site specific level. There is also a limited number of options available. Do nothing is not acceptable and a root removal treatment is also not acceptable. Species shifts to Larch or Yellow pine or Lodgepole pine in place of Douglas Fir and reduced stocking levels may be a better option.

Emile Begin
Forest Health Officer
Box 189
Invermere Forest District, V0A 1K0
Phone (250) 342-4316
Fax (250) 342-4247
E-Mail emile.begin@gems6.gov.bc.ca

-----Original Message-----

From:

Love, Kelly FOR:EX

Sent:

Thursday, September 20, 2001 3:11 PM

To:

Begin, Emile; Brookes, Simon; Cleary, Jerome; Cote, Diana; Crowley, Daryl; Dominy, Richard; Holmes, Peter; Jablanczy, Steve; Jones,

Stan; Love, Kelly; McConnell, Cy; Quick, Les; Sky, Kreg; Smedstad, Mark; Smith, Darrell

Subject:

Tembec CP 156 Block 6 Ram Creek

SP Referral: Above area

Tembec has submitted SP(s) for the above area.

The SPs are located in the cabinet in the Resource Services Section.

This is a 203 ha STS block. It has been field reviewed by Steve Jablanczy and Mark Smedstad. If you have any questions on this block, Steve or Mark should be able to answer them. As noted on page 6 of the SP, the total Basal

### INVERMERE FOREST DISTRICT SILVICULTURE PRESCRIPTION CHECKLIST June 15, 1998

LICENSEE Tember LICENCE AL	8348 СР <u>156</u> вьоск <u>я 6</u>
NEW SP ✓ BACKLOG S	SP
REVIEWED BY: LOVE	DATE: 15 Oct 101
MEETS FPC:	SIGNATURE:
	Caveat

This document is intend as information material only, and not as legal advice or opinion. For legal advice please consult your legal services provider. In all cases, the wording in the legislation and regulations should be relied upon rather than these materials. Please note that amendments may be made to the legislation and regulations after the date of this document.

### Forest Practices Code of B.C. Act

12 (a) a prescription must include	Y	N	N/A
(i) long term management objectives set out in	<b>√</b>		
(A) an FDP or	<b>V</b>		
in the absence of an FDP, in an HLP			V
(B) in the absence of objectives in an FDP or an HLP, in			/
accordance with the regulations, if any			
(ii) a description of the silviculture system,			
post harvest stand structure,	<b>V</b>		
and site condition	V,		
(iii) prescribed stocking requirements	V		
(iv) a map describing approx. location of permanent access,	_ /		
temporary roads and landings			<b>/</b>
(v) limits for temporary & permanent access and for			
soil disturbance			
(vi) matters required by regulation	V		

(b) if it is an SP referred to in Section 22 it must	Y	N	N/A	
(i) be consistent, at the date submitted for DM approval, with	V,			FOP .
(A) any FDP in effect, or	<b>V</b>			Amoud
(B) if an FDP is not required, with any HLP			· /	#12
(ii) meet Act, regs, and stds in effect 4 months before the date the	/			Reviewe
SP is submitted, unless the Act, regs or stds specify otherwise				bu. Cu
Section 22 refers to SPs which the DM must prepare for (1) (a): 7 majors, (b): areas of natural damage, (c): areas of unauthorised to			not	Reviewe by Cy McConnol
(c) if it is an SP referred to in Section 23 (backlog SP) it must	Y	N	N/A	,
be consistent with any HLP in effect when the SP is submitted			V	7
	***			_
(d) it must be	Y	N	N/A	
signed and sealed by an RPF	. 🗸			7
OPERATIONAL PLANNING REGULATION				
Consistent with FDP				
Section 20 (1) (b) SP is consistent with FDP for Category A b	locks			
				•
	Y	N	N/A	<b>-1</b> 0
(i) the year of harvest, if timing is critical for non timber resources			<b>√</b>	Keviewed
(iii) whether the silviculture system is clearcut or partial cut				Jay Cy
(vi) whether the block is cable, aerial or ground based or a	V			Roviewer by Cy McCeme
combination of these methods				
Section 37 Information that must be available before SP appro	val			
(1) subject to subsections (4) & (5), the following assessments mumade available to the DM upon request:	ist be ca	irried o	ut and	
made available to the Divi upon request.	Y	N	N/A	
(a) if in a known scenic area, a VIA that demonstrates the timber	,			SP da
harvesting is consistent with established VQOs	Soci	ne ne	re -0	not sov
(b) a terrain stability field assessment if				Ficall
(i) none done for SP in community w/s (41 (6) of Act) because	\			- Ala
under 16(3) of OPR, none required for FDP				- 10 50
(ii) the block is located in area not in community w/s (41 (6) of				Assessue
Act) and has M landslide, pot. u/s or >60% & < 70% slopes				- merse
(iii) block identified by DM as requiring terrain field assessment	1	/		donos
(iv) indicators of pot. u/s are ID'd while doing field work				T JONO 6
SP conteins blanker/genere storementali	ceuse	e f	CPF (e)	powsibly
SP conterns blanket/generic statement of to kelove h:\fldcrds.doc	lu	sure	this	15
kelove h:\fldcrds.doc			1	1
11010 10 11, 1100 1000	A. O	OCCC	zr am	5 15 -

Y	N	N/A
N/A	N/A	N/A
100	nof	e
ON	der	nows
DOR	<b>D</b>	
10	)	
7		
	100°	N/A N/A

Section 38 Assessment Results A silviculture prescription must contain a statement that, with respect to an assessment referred to under section 37 or the information referred to under section 39 (3) (a),

	Y	N	N/A
(a) procedures required by OPR have been followed for	1		
assessments under sec. 37 or to provide info. under sec. 39 (3) (a),	V_		
(b) the SP is consistent with the results or recommendations of any			
assessment required under section 37, and	V	_	
(c) the SP complies with section 7 (4), 8 (3) and 8 (4) of the			
THPR, regarding prohibition against excavated or bladed trails	•		

Section 39 (1) Definitions of layer terms related to stocking standards

(a) for clearcutting, patch cutting and group selection, group shelterwood, group seed tree, and clearcutting with group reserves, stocking requirements means all the following:

	Y	N	N/A
(i) preferred and acceptable species of trees	In.	,	(
(ii) minimum intertree distance	14/1	,	
(iii) target number of preferred and acceptable species	1/11		
(iv) minimum number of preferred and acceptable species	M		31
(v) minimum number of preferred species	4/		¥

·	Y	N	N/A
(vi) maximum number of coniferous trees	Un		ì
(vii) maximum and minimum coniferous trees after spacing	V/A		·
(viii) required standards at free growing, including:	4/1	,	
(A) minimum height	1/1/	,	
(B) height of tree relative to competing vegetation within 1 m			V
(ix) minimum pruning height at the end of free growing if:			V
(A) control of white pine blister rust is required			
(B) stand densities for wildlife management are 30% < mss			V

(b) for commercial thinning, harvesting of poles, sanitation treatments and other intermediate cuttings that do not have regeneration objectives:

	Y	N	N/A
(i) preferred and acceptable species of trees			
(ii) stand structure goals incl planned residual ba or density/ha			
(iii) species and function of leave trees for non timber resources			V

(c) for even-aged partial cutting not described in paragraph (a):

	<u>Y</u>	N	N/A
(i) all requirements referred to in paragraph (a) and			1
(ii) stand structure goals incl planned residual ba or density/ha			V

(d) for single tree selection all of the following:

	Y	N	N/A
(i) for all layers, the preferred and acceptable species			
(ii) for the regen, sapling and pole layers, the min intertree distance			
(iii) for all layers, target number of pref and acceptable species			
(iv) for all layers, minimum number of pref and acceptable species			
(v) for all layers, the minimum number of preferred species	/		
(vi) for the sapling layer, the maximum number of coniferous trees	/		
(vii) for the sapling layer, max and min conif trees after spacing	/		
(viii) the planned residual basal area per hectare	1		
(ix) the approximate number of trees by diameter class	V		
(x) the required standards at free growing, including:	/		
(A) minimum height for the regeneration layer	/		
(B) height of tree relative to competing vegetation for regen layer	V		

(2) the silviculture prescription must describe the location of:

	Y N	N/A
(a) areas from which timber is to be harvested		
(b) areas where timber was destroyed or damaged	1811	V
(c) the area from which timber was cut in contravention		/
(d) mappable reserves including WTPs and RRZs	V	

(3) A person must ensure that the SP does the following:

	Y	N	N/A
(a) specifies:	V.		
(i) the biogeoclimatic ecosystem classification	<b>V</b>		
(ii) for areas ID'd in an FDP to be harvested by other than cable or aerial, the hazards for compaction, erosion and displacement	/		
(iii) any indicators of potential slope instability, if a terrain stability field assessment has not been carried out, and			V
(iv) if temporary access structures are proposed, depth to & type of unfavorable subsoil, and risk of sediment delivery to streams			
(b) if a pest incidence survey is carried out under 37 (1) (d), identifies significant forest health risks, specifies management strategies to reduce risks			

	Y	N	N/A
(c) silvicultural system,	V .		
including species and function of any trees to be left standing	1		
(d) without limiting paragraph (c), for group selection, description of the range and approx, average opening size			/
(e) any critical site conditions that affect the timing of operations and the manner in which they affect them	/		
(f) total area, including rock, water, swamp, reserves and any other area whether or not it is capable of growing trees	<b>V</b>		
(g) describes the net area to be reforested			
(h) max.% of total area that may be occupied by permanent access	/		
(i) max.% of net area that may be occupied by soil disturbance	/		
(j) max. extent to which limits in paragraph (i) may be temporarily exceeded to construct temporary access structures	/		
(k) identifies:	1		
(i) those portions of the cutblock where excavated or bladed trails may be constructed	V		
(ii) max. and average height of cutbanks, for excavated or bladed trails, and	V		

	Ϋ́	N	N/A
(iii) equipment to be used for trail construction if other than an excavator	/		
(l) max. time to complete rehab of temporary access, measured from completion of harvesting	<b>V</b>		
(m) describes:	V		
(i) volume and range of piece sizes of CWD, if any, required to accommodate any CWD objectives in an FDP	/		
(ii) site conditions that must exist, if any, after a harvest or site treatment to accommodate forest resources identified in the FDP or, in the absence of an FDP in any HLP that applies to the area	/		
(iii) site conditions that must exist, if any, after a harvest or site treatment to accommodate known non-timber forest resources on or adjacent to SP that weren't referenced in subparagraph (ii), and	/		
(iv) actions, if any, that are necessary to adequately manage and conserve archaeological sites			
(n) if livestock grazing is proposed for vegetation management			V
(o) contains the stocking requirements			
(p) contains the regeneration date	1//		
(q) contains the free growing assessment period	V		
(r) signature of the major license holder or person authorized to sign for the holder	/		

## Section 4 (a) Mapping requirements

·	Y	Ν	N/A
(4) a person must ensure, that the prescription describes or			
contains all of the following:	1		
(a) a map that illustrates:	/		
(i) the total area outlined in subsection (3) (f)	1		
(ii) all streams, wetlands, lakes, and	//		
(A) their riparian class, and	V		
(B) if they are streams in a community watershed, whether they			1
are fish streams			V
(iii) a known forest ecosystem network			V
(iv) a wildlife habitat area identified as known in the FDP in which			
the cutblock is proposed to achieve category A status, or in the			
FDP in which the part of the FDP that is the cutblock, is amended			
(v) sensitive areas			
(vi) known res. features, other than domestic water supply intakes	V		
(vii) known licensed domestic water supply intakes and related			
water supply infrastructure			

	Y	N	N/A
(viii) known community water supply intakes and related water			
supply infrastructure			
(ix) known temperature sensitive streams			V
(x) the approximate location of permanent access structures other			
than gravel or rock pits	<b> </b>		
(xi) the approximate location of gravel pits and rock pits, if within			1
20 m of the top of a gully sidewall or the outer edge of an RMA			V
(xii) the approximate location of temporary roads and landings	,		V
(xiii) the biogeoclimatic ecosystem classification	V		/
(xiv) the approximate location of a gully			V
(A) on the Coast if gully is identified in a gully assessment as	N/A	N/A	N/A
requiring special management for concerns in subsection (6), or			
(B) in the Interior if the gully requires special management to			
address the concerns referred to in subsection (6);			\ \\
(xv) the approximate location and type of stream crossings	-		1
(b) for each stream and wetland describes:	1		
(i) the RRZ,			
a description of the purpose and extent of any removal or			1
modification of trees in the RRZ and			V
any related forest practices in this zone, and			
(ii) the RMZ and			
a description of the residual ba or sph to be retained	1		
(c) for each lake in and adjacent to the area:			<b>V</b>
(i) where applicable, the known lake class			1
(ii) the information required in paragraph (b) (i) and (ii), and			
(iii)the lakeshore management zone and			/
the residual ba or sph to be retained			V
(5) If harvesting is proposed for areas that are within an RMA or		-	
lakeshore management area, a person must ensure that the			
silviculture prescription			V
(a) states whether falling or yarding across streams will be done			1
and, if so, describes the strategies for debris management, and			V
(b) describes the strategies for			V
(i) protecting stream banks, if the stream has no RRZ, and	<b>V</b>		
(ii) maintaining shade over known temperature sensitive streams			V
(6) If harvesting is proposed for a gully on the Coast, the SP must	N/A	N/A	N/A
describe strategies consistent with the gully assessment referred to	1		
in section 37 (1) for			
(a) debris management			V
(b) protecting gully banks, minimizing damage to the understorey			
and addressing sediment and debris transport potential, and			

	Y	N	N/A
(c) felling and yarding across gullies, if proposed			
7) An SP prepared under sections 22 (1) (b) or (c), 22 (4) to (6)			1
or 23 of the Act need not meet the following requirements			"

Sections 22 (1) (b) & (c) and sections 22 (4) to (6) refer to timber damaged by natural causes and timber cut in contravention. Section 23 refers to backlog areas.

	Y	N	N/A
(a) if trees will not be harvested on the area under the SP and the SP states that msp will not be used, the requirements of subsection (3) (a) (ii) to (iv), (c) to (e), (h) to (l), 4 (a) (ix) to (xii), (xiv) and (xv), and			
(b) if trees will not be harvested, the requirements of subsection (3) (a) (iii) and (iv), (c), (d), (h) and (j) to (l) and 4 (a) (ix) to (xii) and (xiv)			
(8) an SP prepared for commercial thinning, harvesting of poles, sanitation treatments and other intermediate cuttings without regeneration objectives			
a) need not meet the requirements of subsection (3) (c), (g), (n), (p) and (q), and			
(b) must specify that the SP only covers commercial thinning, harvesting of poles, sanitation treatments or other intermediate cuttings without regeneration objectives			1

Section 40 Exemption from SP may be subject to conditions

If the DM exempts a person from the requirement for an SP under section 30 of the Act

	T	14	14/7
(a) the DM may place conditions on the person, and			
(b) the person must comply with the conditions			$\vee$

Section 41 Species selection

•	Y	N	N/A
When proposing species composition underion 39 (3) (0), a person must, unless otherwise specified in an HLP, select a mix of species that is ecologically suited to the area, if a mix of species was present before harvesting	<b>V</b>		

Section 47

Review and comment

•	Y	N	<u>N/</u> A
(1) by notice in writing, the DM may require an SP or amendment			
to be made available for review and comment as per the notice			
(2) a notice under subsection (1) may specify requirements related			
to review and comment, including, without limitation, the period			
for review and the requirements for dealing with comments			
(3) if an assessment required under sections 15 to 17 or 37 has			
been completed, the licensee must, on a reviewer's request, make			
the assessment available to the reviewer			
(4) the licensee must make an assessment to be reviewed under			
subsection (3) available at their place of business nearest to the			
area under the SPor at another location specified by the DM			
(5) a person who reviews an SP may submit comments in writing			
during the period allowed for review under subsection (2)	`		V

#### TIMBER HARVESTING PRACTICES REGULATION

Consistent with THPR with regard to:

Section 7

Harvesting restrictions in community watersheds

	Y	N	<u> N/A</u>
(2) prohibition on harvesting if landslide likelihood is H			1
(3) prohibition on clearcutting if landslide likelihood is M			
(4) restrictions on excavated trail construction without assessment			
of erosion haz, and risk of sediment delivery to streams			
(7) protection of known community water supply intakes and			/
infrastructures			

Section 8 Harvesting restrictions on potentially unstable terrain inside and outside community watersheds (W/S)

	Y	N	N/A
(2) prohibitions on clearcutting outside community W/S if			
landslide likelihood is H unless:			
(a) assessor's opinion is clearcutting will not significantly increase			
risk of landslide and there is a low likelihood of landslide debris			
(i) entering a fish stream or perennial stream that is a direct			11/
tributary to a fish stream or			\

	Y	N·	N/A
(ii) causing damage to private property or public utilities including			
roads, bridges, transmission lines, pipelines rec sites etc. or			
(b) the use of a clearcut silviculture system has been approved in			
an FDP or SP			
(3) prohibitions on construction of excavated trails outside			
community W/S if landslide likelihood is H			
(4) restrictions on excavated trails both inside and outside of a			
community watershed if landslide likelihood is M unless:			
(a) assessor believes that the trails can be constructed and			
rehabilitated in a manner that will not significantly increase the risk			
of landslides and			
(b) there is a low likelihood of landslide debris:			
(i) entering a perennial stream in a community watershed, a fish			
stream, or a perennial stream that is a direct tributary to a fish			
stream or			
(ii) causing damage to private property or public utilities including			1
roads, bridges, transmission lines, pipelines rec sites etc.			

Section 9 Green-up - Harvesting adjacent to previously harvested areas

Y
N
N/A

	Y	N	N/A
(1) a person may only harvest a cutblock that is adjacent to a previously harvested cutblock if that cutblock is greened-up			Ì
(2) despite subsection (1) a person may harvest a cutblock that is adjacent to a previously harvested cutblock that is not greened-up, if any of the following are met			
(a) the cutblock to be harvested is under a licence to cut or CTP			
(b) a partial cut silvicultural system is used that retains trees in a uniform distribution and 40% or more of the preharvest BA is retained			
(c) a partial cut silvicultural system is used that retains less than 40% of the preharvest BA, and			
(i) before commencement of harvesting the DM has authorized, in writing, retention of less than 40% of the preharvest BA, and			
ii) after completion of harvesting, either the retained trees are uniformly distributed or the block is stocked with a top height of at least 3 m			
(d) the total area of			
(i) the cutblock to be harvested, and			V

	Y _	N	N/A
(ii) the harvested cutblocks that are not greened-up and that are			
adjacent to the cutblock to be harvested does not exceed the	į		
maximum size for cutblocks specified or varied under section 11			
of the Operational Planning Regulation	_		
(e) the harvesting of the cutblock is necessary to achieve			
established VQOs and the harvesting has either been approved in			
an operational plan or authorized by the DM in writing			
(f) the resultant opening has been authorized by the DM, in a			
written notice given to the person, on the grounds that it will be	-		
consistent with the structural characteristics and the temporal and			
spatial distribution of natural openings			
(g) the proposed harvesting will recover timber that was			
damaged by fire, insects, wind or other similar events and,			
wherever possible, the cutblock to be harvested incorporates			
structural characteristics of natural disturbance			
(1) A pareau harvesting must not construct a temporary stream	<del></del>		1771
	Y	N	N/A
(1) A person harvesting must not construct a temporary stream			
crossing unless authorized by the DM (on the SP map)			
Section 10 Felling adjacent to streams wetlands, lakes,	oto (E	D 7 a\	
Section 10 Felling adjacent to streams wetlands, lakes,	Y	N N	N/A
(3) (a) (ii) A person must not harvest or modify trees in a RRZ	Ť	T	
unless approved by the DM for			
(A) recreation facility management			
(B) reducing windthrow potential by topping or pruning			
(C) removal for approved stream crossings			
(D) for road construction under an approved layout and design			
(E) corridors for full suspension yarding	<del></del>		
(F) removal of any tree which is hazardous to workers	<del>                                     </del>		++-
(G) a range development	<del></del>		
(H) any other similar activity	+		
(b) (ii) unless approved by the DM with agreement of the DEO for			
(A) windthrow or damage by fire, insects, disease, etc.			$\longrightarrow$
		<u></u>	
(B) sanitation treatments (C) managing fisheries and wildlife values			





Division BRITISH COLUMBIA Division ANISTRY OF CONCOUS

220 Cranbrook Street North P.O. Box 4600 Cranbrook, British Columbia V1C 4J7 Téléphone: (250) 426-6241 Télécopieur / Fax: (250) 426-5372

November 21, 2001

Ministry of Forests Box 189 Invermere, B.C. V0A 1K0

File: F.L. A18978 **CP 156** 

Attention: Serg Pereverzoff, District Manager

Re: Silviculture Prescriptions - CP 156

Dear Sir:

Enclosed for your approval is a Silviculture Prescription for CP 156 Block 006 in the Lower Lussier / Ram Creek area. Please replace originally submitted SP and map with this revised version.

Please feel free to contact our Canal area office if you have any questions or concerns.

Yours truly,

Dave P.C. Brown

Administrative Forester

CC:

Barry Benson

Forest Planning Superintendent

NOTIFICATION OF RECEIPT AND ACKNOWLEDGEMENT

DATE

Ministry of Forests

Invermera Forest District

File#

Amendment # Initial

Encl: SP's, Map's

L'ESPRIT D'HINOVATION THE SPIRIT OF IMMOVATION

#### SILVICULTURE PRESCRIPTION REVIEW COMMENTS

# Tembec FL A18978 CP 156 Lower Lussier – Ram Creek Block 6

October 17, 2001

Sout Oct 23/0

The SP for the above area has been reviewed. The following revisions are recommended prior to resubmission to the District Manager for approval.

Comments have been broken down into the following categories:

- Legal requirements prefaced by L
- Errors prefaced by E
- Guidelines agreed to by Licensees and the Ministry prefaced by G
- Recommendations for improved management prefaced by M
- Items for discussion prefaced by?

The Licensee should examine the SP prior to resubmission and ensure all general and block specific comments are addressed and ensure the SP meets the requirements of the Forest Practices Code of British Columbia Act.

If you have any questions or if you wish to discuss these comments, please call Kelly Love at 342-4200 prior to resubmitting the final SP to the District Manager.

GENERAL COMMENTS = if REP'D. (prob vot " 1 ha = 12/6)

Temporary Roads | Will revise SP & PAS /TAS to

delimite green rd as temp. rd.

Barry Benson's email of April 16, 2001 refers to discussions between Ross and Martin regarding a temporary road. Has this been resolved? Is there any need for any roads to be prescribed as temporary roads? And will revise wap > Temp as per legend

October 18, 2001 AIA in North Portion of the Block

G The SP should mention the AIA to be carried out on this area and indicate whether or not anything was found. More from 1

See also further comments regarding AIAs below.

Page 40 FNR-2011-00107

WTP #3

Tember will pres Rd as Temperary Rd. / Rd will be redained, as per THPR.

M Peter Holmes reviewed the SP and expressed concerns for the road through WTP #3. His concerns are that safety trees removed for the road and access provided for firewood

cutters may compromise the viability of the WTP. Also note WTP increased

From one as per Tember

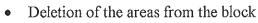
Peter requested that an alternate location be examined for the road, and if this is not Biologists. feasible that the SP specify that the road be physically closed at Stream 4 after the completion of harvesting operations. This would also serve to protect the goshawk nest in NB 20% cut m rest of Blkon feasible that the SP specify that the road be physically closed at Stream 4 after the WTP #3.

BLOCK SPECIFIC COMMENTS

Archaeological Values - Sec A (Comments), Sec C (CWD, UWR & Arch. Sites), Sec E (Ex/Bl Trail Locations), Sec G (Res Other), & Map

G The SP prescribes Cultural Heritage Resources Reserves to address the areas containing archaeological values. This is an appropriate action to deal with these archaeological values.

The specific location of the archaeological values is generally considered to be confidential information that should not be presented in public documents such as SPs. It is recommended that the specific location of the archaeological values not be shown on the SP map and that the specific references to these values (in the above sections of the SP) be deleted from the SP. Options to address these values and ensure they are not compromised by harvesting activities could include:



- Delineation of the areas as reserves without specifying the reason for the reserves
- Mentioning Cultural Heritage areas in the SP in general terms and advising Tembec staff verbally of their locations to ensure that harvesting activities do not impact them

If there are questions on how best to deal with this issue, please contact Diana Cote in our office.

#### Section D

G The SP prescribes minimum 20 m buffers with no harvesting on either side of streams 1 to 5. It is expected that this means both sides of the streams. The SP should be revised to indicate that the buffers are on both sides of the streams.

G The SP also prescribes a 10 m wide buffer adjacent to stream 6. The SP should be revised to indicate that this buffer is also on both sides of stream 6.



2

G Section D prescribes 15 m MFZs adjacent to the riparian buffers. As above, it should be noted that the MFZs are on both sides of the riparian buffers.

? Why are the MFZs not on the map? If they are not to be shown on the map, it would be appropriate that the map note indicate that the MFZs are 15 m wide and on both sides of the riparian buffers.

are but very various on map.

# Sec D Measures for Protection of Stream Banks & Sec E Excavated or Bladed Trails

E Both of the above sections refer to crossings and both indicate that the crossings are shown on the SP map. The crossings were not found on the map nor the map legend.

This should be reviewed and corrected.

dote ref to xing

7 Attach attid SP Guiddoook 19%

# Section E Excavated or Bladed Trails

G What is RE in the description of the excavated or bladed trail locations in the block? This should be reviewed and clarified.

Section G

The SP should provide the function of the leave trees in both the o/s and u/s.

L G The SP should provide the Planned Residual Structure by 10 cm diameter classes as shown on page 33 of the Feb. 2000 SP Guidebook. Prescribing the residual stand structure by diameter class in this manner will enable the DM to conduct an informed review of the appropriateness of the leave tree data.

This area will be subject to intense public scrutiny by the Sheep Creek residents and other members of the public. It is important that the SP use clear, measurable language to describe the leave tree specifications. The following revisions to Section G of the SP are recommended to help ensure this is done.

G The last sentence in paragraph 2 should be revised to remove the words "goal" and "approximately." This sentence should indicate that 5.5 m2/ha (20% of the stand's basal area) will be removed.

AM sph > 45 cm are reserved

Note small to removal in Non Travel Nan DI

Page 42 FNR-2011-00107 G The first sentence under the heading Harvest Area should be revised to delete the word "objective." This sentence should indicate that 80% of the preharvest basal area is to be reserved.

# Section H

E The DRA clause is missing a word. The clause should be corrected to indicate, "all other free growing requirements." As it is written in the SP without the word "other," the clause is contradictory.

(F)

Kelly Love Silviculture Prescription Forester

cc Mark Smedstad, Resource Assistant Timber Diana Cote, Aboriginal Forestry Advisor

From:

Love, Kelly FOR:EX

Sent:

Tuesday, October 23, 2001 9:01 AM

To:

'dbraybrook@crestbrook.com'

Subject:

SP Comments CP 186 and CP 156

# Doug,

I tried to get hold of Barry to discuss these with him s.22 i. I will call him on Fri to discuss these and see if he would like to look after them, or if he'd rather have us talk them over when you get back. Please give me a call when you're back to discuss where these are.

#### Thanks,





CP 156 Blk 06.doc

CP 186.doc

Kelly Love

Silviculture Prescriptions Forester

Invermere Forest District

Phone: 250-342-4219 Fax: 250-342-4247 Email: Kelly.Love@gems7.gov.bc.ca

From:

Holmes. Peter ELP:EX

Sent:

Monday, October 01, 2001 9:24 AM

To:

Love, Kelly FOR:EX

Subject:

RE: Tember CP 156 Block 6 Ram Creek

#### Kelly:

The only major concern I have with the proposed SP relates to the road through WTP #3. Building a road through a WTP will reduce it's effectiveness by removal of standing wildlife trees as per the WCB regulations and fire wood cutters. It appears that topography has limited options for this road location but if this is not the case please have alternative locations explored. If no other location is feasible, the road should only be temporary and physically restricted to 4x4 traffic.

Peter.

----Original Message-----

From:

Love, Kelly FOR:EX

Sent:

September 20, 2001 3:11 PM

To:

Begin, Emile; Brookes, Simon; Cleary, Jerome; Cote, Diana; Crowley, Daryl; Dominy, Richard; Holmes, Peter; Jablanczy, Steve; Jones,

Stan; Love, Kelly; McConnell, Cy; Quick, Les; Sky, Kreg; Smedstad, Mark; Smith, Darrell

Subject:

Tembec CP 156 Block 6 Ram Creek

SP Referral: Above area

Tembec has submitted SP(s) for the above area.

The SPs are located in the cabinet in the Resource Services Section.

This is a 203 ha STS block. It has been field reviewed by Steve Jablanczy and Mark Smedstad. If you have any questions on this block, Steve or Mark should be able to answer them. As noted on page 6 of the SP, the total Basal Area removal from the NAR is 20%.

Please review them, attach any comments to the file, and sign off the check list under your program's section.

The review will end on: Oct. 5/01.

Pls advise Kelly Love within 5 days if you have no concerns with these SPs.

If you have any questions, please contact: Mark Smedstad

Kelly Love Silviculture Prescription Forester Invermere Forest District

Phone (250) 342-4200 Kelly.Love@gems7.gov.bc.ca

From:

Smedstad, Mark FOR:EX

Sent:

Wednesday, October 10, 2001 2:58 PM

To:

Love, Kelly FOR:EX

Subject:

Tembec CP 156 Block 6 Ram Crk.

Kelly I have review block 6, both on site aswell as office. I have only a few concerns they are as follows:

WTP # 3 I concur with P. Holmes. I would also mention that this WTP is the one with a active Goshawk nest, no we really want to build a road close to it? I would like to see Pete comment on that question. How far from the proposed road is the nest located?

Concur with Silvculture system this is what was agreed upon with Sheep Creek residents and Tembec.

**Mark Smedstad Resource Assistant Timber Invermere Forest District** (250) 342-4251

From:

Doug Braybrook [dbraybrook@crestbrook.com]

Sent:

Wednesday, October 10, 2001 1:44 PM

To:

Cote, Diana M FOR:EX; Love, Kelly FOR:EX; Godlien, Teena D FOR:EX

Cc:

'bbenson@crestbrook.com'

Subject:

CP 156-006 Ram Creek SP & Road Permit Application

Hi guys.

I commissioned an AIA for a mod/high polygon in the southern portion of this block which is located in LU 4. This is reflected in the SP submission.

It turns out that there is another polygon in the northern portion (LU 5) of the block. This polygon information was not available when I submitted the SP. I have scheduled Ages Ltd. to conduct the AIA for this polygon on October 18th. Kelly we might as well as continue with the SP approval process as I do not expect it to be approved soon. If anything is found I will modify the SP if necessary.

Teena, this AIA issue does not affect our Road Permit application so it is business as usual with the RP proposal.

Doug Braybrook, RPF Canal Flats, Area Forester

# Smedstad, Mark FOR:EX

From:

Doug Braybrook [dbraybrook@crestbrook.com]

Sent:

Wednesday, April 18, 2001 3:49 PM

To:

'bbenson@crestbrook.com'; 'John Bergenske'; 'Ross Guest'; Smedstad, Mark FOR:EX;

Jablanczy, Steve FOR:EX

Cc:

'Lloyd Havens'

Subject:

RE: CP 156 field trip on April 11th

I have one addition to Barry's comments. There is the occassional Lodgepole pine tree in the block and I have included them in the SP as priority for removal behind skidtrails and Root Rot/Beetle infestations but ahead of healthy Fd and Lw. I have also included the max. opening size of 2 treelengths as a result of the Carver report.

Anyway comments please let me know.

Doug Braybrook, RPF Canal Flats, Area Forester

----Original Message----

From: Barry Benson [SMTP:bbenson@crestbrook.com]

Sent: Monday, April 16, 2001 4:21 PM

To: 'John Bergenske'; 'Ross Guest'; 'Mark Smedstad'; 'Steve Jablanczy'

Cc: 'Lloyd Havens'; 'Doug Braybrook' Subject: CP 156 field trip on April 11th

Hi everyone,

Thanks to John, Ross, and the rest of the Sheep Cr. residents for their keen involvement in the recent field trip of CP 156 - 006. I appreciate the constructive dialogue that the group partakes in and the input and thoughts from everyone.

I thought I would reconfirm all that was agreed to on the field trip:

1) Large veteran Fd and LW are not prevalent and therefore stems >45cm DSH

will be reserved from harvesting for recruitment.

2) Douglas fir (20 - 45 cm DSH) will be the species sought after for harvesting in the stand. The order of priority is as follows: a) skid trails, b) fir bark beetle and root rot patches, c) minor single tree selection of the Fd throughout the stand. It should be noted that if there are no fir present in an area than the Larch will be targetted for removal. Shouldn't be a big deal because we are talking about a pure larch type so

its presence is obviously not a concern.

3) Machine free zones will be ribboned in the field.

4) Martin Carver will do a final review ensuring that all is well from a hydrological point of view.

(?)

For you Ross, you stated that you will be in contact with Martin to discuss the temporary road that is required in the block.

If there are any other comments or if I have missed something please get back to me.

Thanks

pg 6 SP. -pg6 SP.

From:

Cote, Diana M FOR:EX

Sent:

Friday, September 28, 2001 9:38 AM

To:

Love, Kelly FOR:EX

Subject:

RE: Tembec op Block 6 Ram Creek.

Very Good Kelly. Thank you

Diana Cote Aboriginal Liaison Officer Ministry of Forests Invermere District (Phone) 250 342 4324 (Fax) 250 342 4247

Visit the "New"Invermere Forest District Webpage at: http://www.for.gov.bc.ca/nelson/district/invermer

----Original Message-----

From:

Love, Kelly FOR:EX

Sent:

Friday, September 28, 2001 9:37 AM

To:

Cote, Diana M FOR:EX

Cc:

Smedstad, Mark FOR:EX

Subject: RE: Tembec cp Block 6 Ram Creek.

#### Diana,

Thank you for the note indicating that you concur with the measures in the SP to address archaeological issues on CP 156 Block 6.

As we discussed, I will request that Tembec revise the map to remove the notation showing the location of the archaeological reserves, because this is confidential information.

Kelly Love

Silviculture Prescriptions Forester

Invermere Forest District

Phone: 250-342-4219 Fax: 250-342-4247 Email: Kelly.Love@gems7.gov.bc.ca

----Original Message-----

From: Cote, Diana M FOR:EX

Sent: Thursday, September 27, 2001 2:48 PM

To: Love, Kelly FOR:EX

Subject: Tembec op Block 6 Ram Creek.

I have reviewed this block via foot pedestrian and concure with the Cultural Heritage Resource Reserve for the Archaeological sites found within this block.

Diana

See no further Concerns regarding Cultural Heritages.

#### Diana

Diana Cote Aboriginal Liaison Officer Ministry of Forests Invermere District (Phone) 250 342 4324 (Fax) 250 342 4247

Visit the "New"Invermere Forest District Webpage at: http://www.for.gov.bc.ca/nelson/district/invermer

FAX



Division	Sec. 101	COLUNEIA.	<b>Division</b>
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CANAL FLATS Woodlands 9006 Grainger Road 9.0. Box 68 Canal Flats, British Columbia VCB 180 Tolophone: (2:30) 3-13-5254 Tolophone / Fex: (2:30) 3-13-5250

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S.V.P. communiquer avec l'expéciteur si vous ne receven pas toutes les pages / Please contact the sender if any pages are intestig.

# WTP SUMMARY - RAM CREEK CP 156-006

LU: 5 TARGET WIP%: IDF= 5%

						_	 1						
COMMENTS		(single trees) = number in brackets refers to the	contribution of single trees if any	Single trees have not been included in the calculation as	the silv. system is single tree selection and future	barvesting likely.			Note: Single Tree Hectares derived as follows:	Sph * net area / 600 sph		The second of th	
REA		Non THI B		10.0				10.0			.,.		
SP WTP AREA	(ba.)	THLB	(single trees)	8.9				6.8					
T AREA		Non THLB		5.1				5.1					
TARGET WIT	(ha.)	THILB		5.1				5.1					
BEC				IDF						0.38			
AREA	(ha.)			203.1									
CP BLOCK/ AREA BEC	SU			900				TOTAL					
ව්				156									

# Inspection Plan - Timber Activities

	Values (A) Max 24	•	Likelihood of a Detrin Max 1	
Environmental	Social	Economic		
Soils Conservation Site Sensitivity Rating Very High High Moderate Low	Cultural Values Confirmed 3 Unconfirmed 2 Confirmed, no existing values 1	Utilities Present Absent NA	Licensee Performance Previous non- compliance 3 New tenure holder 2 In compliance 1	Silviculture System Selection cut 3 CC with reserves Clear cut 1
Watershed Consumptive - community or domestic Irrigation Other	Landscape Sensitivity Retention 3 Partial retention 2 Modification 1	Range Use and improvements 3 Use, no improvements No use 1	Tenure Type TSL major/minor 3 Woodlot 2 TFL/FL 1	Harvest Method Random skid 3 Bladed or excavated (2 Cable heli NA
S6 - Ephermeral Not applicable N	5 3 1		Stream Crossing NA Crossing S4 3 Crossing S5-S6 that flows into S1-S4 2 Crossing S5-S6 1	Harvest Season Spring 3 Summer-fal(2) Winter 1
Wildlife Wildlife tree patch ( Winter range Summer range	3 2 1			
Sum of Value Points Divide by # of boxes	excl N/A 7 Equals Box A	A 2.7	Sum of Points	B /. 8
,	ox A" x "Box B" equals	c 5	Inspection Rating Ch	art (Input Value to
24 ha	d		Very High (VH)	9
ha 124 hs = 7	Inspection Rating	D M	High (H)	7-8
			Medium (M)	4 - 6
M	odified Inspection Rating	E .	Low (L)	1 - 3
Modified Inspection	Rating Qualifier:		<b>-</b>	
Estimated Number of	of Inspections		1	

From:

Love, Kelly FOR:EX

Sent:

Monday, October 15, 2001 11:07 AM

To: Subject: McConnell, Cy FOR:EX RE: Opening #'s CP 186,156

Yes, I will add the opening numbers.

Kelly Love

Silviculture Prescriptions Forester Invermere Forest District

Phone: 250-342-4219 Fax: 250-342-4247 Email: Kelly.Love@gems7.gov.bc.ca

----Original Message-----

From: McConnell, Cy FOR:EX

Sent: Monday, October 15, 2001 8:18 AM

To: Love, Kelly FOR:EX

Subject: FW: Opening #'s CP 186,156

Kelly, do you still have these SP's to add the opening numbers?

CP 186 Block 1 opening # 129 82J024

CP 186 Block 2 opening #-130 82J024

CP 156 Block 6 opening (# 90 )82J002v

Cy McConnell

Field Operations Supervisor Invermere Forest District

% (250) 342-4218 or Fax (250) 342-4247

\* Cy.McConnell@gems7.gov.bc.ca

Visit the Invermere Forest District Webpage at: http://www.for.gov.bc.ca/nelson/district/invermer

FILE A18978 CP 156 Ram CK

From:

Love, Kelly FOR:EX

Sent:

Thursday, September 20, 2001 3:11 PM

To:

Begin, Emile; Brookes, Simon; Cleary, Jerome; Cote, Diana; Crowley, Daryl; Dominy,

Richard; Holmes, Peter; Jablanczy, Steve; Jones, Stan; Love, Kelly, McConnell, Cy; Quick,

Les; Sky, Kreg; Smedstad, Mark; Smith, Darrell

Subject:

Tembec CP 156 Block 6 Ram Creek

SP Referral: Above area

Tembec has submitted SP(s) for the above area.

The SPs are located in the cabinet in the Resource Services Section.

This is a 203 ha STS block. It has been field reviewed by Steve Jablanczy and Mark Smedstad. If you have any questions on this block, Steve or Mark should be able to answer them. As noted on page 6 of the SP, the total Basal Area removal from the NAR is 20%.

Please review them, attach any comments to the file, and sign off the check list under your program's section.

The review will end on: Oct. 5/01.

Pls advise Kelly Love within 5 days if you have no concerns with these SPs.

If you have any questions, please contact: Mark Smedstad

Kelly Love Silviculture Prescription Forester Invermere Forest District

Phone (250) 342-4200 Kelly.Love@gems7.gov.bc.ca



Division BRITISH COLUMBIA Division

220 Cranbrook Street North P.O. Box 4600 Cranbrook, British Columbia V1C 4J7



Téléphone: (250) 426-6241 Télécopieur / Fax: (250) 426-5372

RECEIVED

September 5, 2001

SEP 1.2 2001

MINISTRY OF FORESTS INVERMERE BC.

Ministry of Forests Box 189 Invermere, B.C. V0A 1K0 File: F.L. A18978 2000-2004 FDP CP 156

Attention: Serg Pereverzoff, District Manager

# RE: FDP Amendment #12

Dear Serg:

Enclosed for your approval is Forest Development Plan #12 and Silviculture Prescription for CP 156 Block 006 in the Ram Creek area.

The prescription was completed in concurrence with the hydrological assessment completed by Martin Carver and in consultation with the Sheep Creek Residents.

If you have any questions of concerns please call Barry Benson at the Canal Flats Office.

Yours truly,

Dave P.C. Brown

Administrative Forester

CC:

Barry Benson

Forest Planning Superintendent

NOTIFICATION OF RECEIPT AND ACKNOWLEDGEMENT

Amendment

BB\cb

Encl: FDP Amend #12, Harvesting, Road Construction, & Road Deactivation Tables, FDP Amendment maps, SP, SP map, & digital files



# INVERMERE FOREST DISTRICT SILVICULTURE PRESCRIPTION / INITIAL SUBMISSION ROUTE TAG

LICENSEE Jembec LICENCE A18978 CP 156 Blks 006

SP FORESTER  O4 days     Ponter into SP tracking ledger:   Vensure seal, signature.   Send out 10 day notification on email   Value SPs in cabinet   Verview SPs   Venow free review period   Vassign target completion date considering   Complexity:   Oct 5   Ot   Verview SPs   Venow free review period   Vassign target completion date considering   Complexity:   Oct 5   Ot   Verview SPs   Venow free review period   Vassign target completion date considering   Complexity:   Oct 5   Ot   Verview SPs   Venow free review period   Venow free review seal of the venow free review seal of the venow free review with Sp. Ros, MOB, RAT, Licensee   Concerns   Venow free review with Sp. Ros, MOB, RAT, Licensee   Concerns   Venow free review with Sp. Ros, MOB, RAT, Licensee   Concerns   Venow free review period   Venow free review required   Venow free review period met (if not advise licensee of reason).   Venow free review free review period met (if not advise licensee of reason).   Venow free review free review period met (if not advise licensee of reason).   Venow free review free review period met (if not advise licensee of reason).   Venow free review free review period met (if not advise licensee of reason).   Venow free review		Work days to . Event #	o complete Initial / Date
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Page 56 FNR-2011-00107

TIMBER OFFICER	02 days	-review SPs	33 110 Dec/01
DM	02 days	-sign SPs	Derg Dec 19/01
SP FORESTER		-fax copy of signature page to	Licensee
•	02 days	constante ongo to POX-11	mer-(/)
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4		. 0 11	
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Tilc to => 19500-40-A18978-CPISC

# Smedstad, Mark FOR:EX

 From:
 s.22

 Sent:
 Tuesday, May 15, 2001 10:33 PM

 To:
 s.22
 Smedstad, Mark FOR:EX;

 Jablanczy, Steve FOR:EX;
 s.22

 Peatt, Alan FPB:EX;
 s.22

 s.22
 s.22

Letter to 8B re cut May
9, 200... Barry,

Please find attached a letter in response to your letter of May 9, 2001.

Re: CP 156 field trip on April 11th

s.22

Subject:

# Hi Barry,

Further to our field trip on April 11, 2001 and our recent phone conversations, here is our response to your memo of April 16, 2001. I have copied all the people you had copied but have added copies to s.22 and the Ram Creek residents who have email.

In this response I am assuming that all the requirements of the prescription as contained in s.22 report are to be applied unless they are specifically changed in this memo.

As you noted, the block contains active fir bark beetle and Armillaria root rot, Diseased trees will be given high priority for harvest and will be included in the 20% basal area removal.

We have noted the absence of large veteran Douglas Fir and Larch throughout the block therefore stems greater the 45cm DSH will be reserved from harvesting for recruitment.

We agreed that Douglas fir (20 - 45 cm DSH) will be the species sought after for harvesting in the stand. Therefore the order of priority is skid trails, fir bark beetle, root rot patches and minor single tree selection of Douglas fir throughout the stand.

You had suggested that Larch should replace Douglas Fir in areas where there is no Douglas Fir present. As I mentioned to you in our phone call, we are concerned that this will lead to decreasing Larch representation on the hill as there will not be enough disturbance to facilitate Larch regeneration. We would rather see the pure Larch stands reserved. You indicated that this further reserving should not materially impact your harvest due to the limited areas of pure Larch.

Further, where Py occurs, it will be left unless beetle infested.

Based on comments made during the field trip we understand that where there is occasional Lodgepole pine in the block, it will be included in the SP as priority for removal behind skidtrails and

Root Rot/Beetle infestations but ahead of healthy Douglas Fir.

Also as stated during the field trip the maximum opening size will be no greater that 2 tree lengths.

Machine free zones are to be ribboned in the field. It appears that this process is underway and may already have been completed.

We are operating on the assumption that all deciduous trees will be reserved.

You indicated the need to use an old existing road approx. 450 meters long that is located within CP 156-006

to overcome the adverse skidding in a large portion of the cutblock. You further stated that the road would be temporary and debuilt upon completion of harvesting. As you know this road is not now in use. Its present condition deters public use thereby reducing the fire hazard that is already high due to careless practices of people using the hot pools. Our group is very concerned that your activities will result in this road becoming available to the public after your use of it for this harvest. You have indicate that the road will be "debuilt" and we will be looking to you to ensure this "debuild" permanently takes the road out of use for the general public. Assuming you are in agreement with these requirements, we will agree to the your use of this road as indicated.

During the field trip there was some talk of a need to "blade" some parts of the hill. We have always understood that there would be no blading as it could lead to greater site degradation than any of the other concerns being addressed in the prescription. We believe that no blading of skid trails should be written into the prescription.

In order to maximize the overall benefits to the ecosystem we would recommend that while this block is being primarily managed for hydrological concerns, wherever possible, any small openings (2 tree lengths) and skid roads should be concentrated on southerly aspects to enhance early spring forage opportunities.

As you know, the harvesting in this block has been a controversial issue in our community in large part due to the excessive harvesting that has taken place in the rest of the watershed. Further, this block has significance to numerous members of our group as it is a major portion of their viewscape and extensive harvesting would materially affect erosion problems already being experienced, reduce property values and adversely affect existing commercial operations. With that in mind it would seem reasonable to prescribe that there would be no further entry into this block for at least 20 years.

You and I have discussed the merits of having s.22 return to the area to do a final review ensuring that all is well from a hydrological point of view. This review is to be combined with a field trip for interested residents and a community meeting to ensure everyone affected is aware of the final terms of the prescription and that s.22 believes the prescription is in keeping with the recommendations included in his report. It is also important to ensure full understanding because, as you know, this harvesting will be closely watched by a number of our members. Full understanding before harvesting begins will reduce the possibility of disruption during the harvesting.

Barry, we appear to be closing in on a prescription that represents the valid concerns and needs of all the parties. Please confirm your agreement to the above detail at your convenience.

on behalf of the Concerned Residents of Sheep Creek.

# **CP DELETION ROUTE TAG**

LICENSE: 191	18978	CP: 156 Location:	
EXPIRV DATE	much	31/2007	

		Days	Initial/Date
RES	SOURCE CLERK	5	L/B
-	Print expiry report from FTA (or at licensee's request) E-mail C&E for information only		07/03/15
RES	SOURCE CLERK		1.12
		15	ug.
	Attach route tag to file		/
-	Check RESULTS for data		
	If no data, e-mail licensee & C&E forester	1	
-	HOLD for data		
_	Once data received		
-	Enter hectares logged on each block		
	logging start date		
2.1	logging completion date		
*.	Change block status to "S"		
	Change CP status to "HC"		1
	If reported in Results all Info will be in FTA - change status		
-	Delete CP from G: drive		
WA	ASTE AND RESIDUE	(000)	10111
		VR.M.	NOTO
-	Ensure waste billing is complete		May 23/06
RE	SOURCE CLERK 6		1
	n		1012
-	E-mail C&E Tech advising CP deleted		134
•	copy of Route tag for Q&A Forward file to filing for deletion		n/codpo
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			7/
-	Close file		

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FTA903 - Cut Block List

File:

A18978

... Go Type:

A01 - Forest Licence

Admin Org:

RSI - Southern Interior Forest

Region

CP:

File Status: Award Date: HI - Issued 1982-12-01 As of:

2000-01-01 2021-11-29

Cut Block:

Expiry Date: 00001402 00 TEMBEC INDUSTRIES INC.

Licensee:

Back To Search Add New

**Harvest Date** Authorized 1 rows returned

CP Timber Salvage Mark Mark Type Status CutBlock Status

Start

Complete

Planned Planned Actual File Gross Net Gross

Links

156 EY6156

н

203,0000 165,0000 0,0000

Map View

Details

MINISTRY OF FORESTS

http://apps12.for.gov.bc.ca/fta/fta903CutblkLstAction.do?dataBean.p\_cutting\_permit\_id=156&dataBean... 2007-03-15



The Best Place on Earth

Contact: Georgina Borho (250)426-1755

Date typed: 2007/01/18 Date last saved: 2007-01-18 9:38 am

File: 19500-45/A18978 CP'S 156, 211 and 228

March 13, 2007

Tembec Industries Inc. Ken Gauthier General Manager, Kootenay Central Box 4600 Cranbrook, British Columbia V1C 4J7

Dear Ken Gauthier:

The following cutting permits for Forest Licence A18978 have been deleted as per your surrender plan dated February 9, 2007. CP's 156, 211 and 228.

In accordance with your surrender plan, we have received your original cutting permit documents and they have now been cancelled.

Yours truly,

Fony Wideski, R.P.F.

District Manager

Rocky Mountain Forest District

Ministry of Forests and Range Rocky Mountain Forest District

1902 Theatre Road Cranbrook, B.C. V1C 7G1

1902 Theatre Road Cranbrook, B.C. V1C 7G1

(250) 426-1700 Tel: (250) 426-1777



# FOREST LICENCE NO. A18978 CUTTING PERMIT NO. 156



PURSUANT TO paragraph [7.05] of Forest Licence No. A18978 (the "Licence"), this Cutting Permit is issued to:

Tembec Industries Inc. Box 4600 Cranbrook, B.C. V1C 4J7

(the "Licensee")

#### 1.00 PERMIT AREA AND TERM

- 1.01 Subject to the Licence and the Acts, regulations and standards referred to in paragraph [8.01] of the Licence, the Licensee is authorized to harvest timber from the areas of Crown land designated for harvest on the map attached as Exhibit "A" to this Cutting Permit.
- 1.02 Subject to paragraph 1.03, the term of this Cutting Permit is three years, beginning on November 1, 2001, and ending on October 31, 2004.
- 1.03 As provided in paragraph [7.13] of the Licence, the District Manager, in a notice given to the Licensee, may
  - (a) extend the term of a cutting permit, and
  - (b) if he or she does so, amend this Cutting Permit to the extent necessary to ensure it is consistent with the forest development plan in effect at the time this Cutting Permit is extended.

#### 2.00 SPECIAL CONDITIONS AND REQUIREMENTS

2.01 The Licensee must comply with the conditions and requirements set out in Schedule "A" to this Cutting Permit.

#### 3.00 FELLING, BUCKING AND UTILIZATION SPECIFICATIONS

- 3.01 Subject to paragraph 3.04, the Licensee must
  - (a) fell standing timber of the species specified in Schedule "B" to this Cutting Permit, in accordance with the felling specifications set out in that Schedule,
  - (b) buck felled and dead-and-down timber of the species referred to in subparagraph (a) in accordance with the bucking specifications set out in Schedule "B" to this Cutting Permit, and

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- (c) utilize all timber of the species and grades specified as obligatory utilization in Schedule "B" to this Cutting Permit if the timber meets the utilization specifications set out in that Schedule.
- 3.02 Schedule "B" to this Cutting Permit may include a requirement that the Licensee fell other timber in addition to the timber referred to in subparagraph 3.01(a), in which case, subject to paragraph 3.04, the Licensee must fell but need not utilize such timber.
- 3.03 Subject to paragraph 3.04, the Licensee may utilize
  - (a) timber of the species and grades specified as optional utilization in Schedule "B" to this Cutting Permit, and
  - (b) timber referred to in paragraph 3.02.
- 3.04 The Licensee must not fell standing timber, or must not buck or utilize felled or dead-and-down timber, as the case may be, if
  - (a) the timber is specified as reserved timber in Schedule "B" to this Cutting Permit, or
  - (b) under an operational plan or the Acts, regulations or standards referred to in paragraph [8.01] of the Licence, the Licensee is required not to fell the timber, or not to buck or utilize the timber, for any reason, including silviculture, biodiversity or other forest management reasons.

#### 4.00 TIMBER MARK

- 4.01 The timber mark for this Cutting Permit is:
  - EY6
  - 156
- 4.02 If directed to do so by the District Manager, the Licensee must erect signs at all exits from the areas of Crown land referred to in paragraph 1.01, clearly showing the timber mark(s) referred to in paragraph 4.01.

#### 5.00 SCALE-BASED STUMPAGE

- 5.01 For the purpose of determining the amount of stumpage payable in respect of timber harvested from the areas of Crown land referred to in paragraph 1.01, the volume or quantity of timber harvested will be determined using information provided in a scale of the timber.
- 5.02 The Licensee must ensure that
  - (a) all timber harvested from the areas of Crown land referred to in paragraph 1.01 is scaled, and

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(b) the scale of the timber is conducted properly in accordance with the requirements of the Forest Act and the regulations made under that Act.

#### 6.00 ROADS

- 6.01 Subject to the Licence and the Acts, regulations and standards referred to in paragraph [8.01] of the Licence, the Licensee may construct or modify roads under the authority of this Cutting Permit on areas of Crown land referred to in paragraph 1.01 if the roads are
  - (a) wholly contained within a cutblock identified on a forest development plan, and
  - (b) not identified on a forest development plan as providing access to more than one cutblock.

#### 7.00 MISCELLANEOUS

- 7.01 The Exhibit and the Schedules to this Cutting Permit are deemed to be part of this Cutting Permit.
- 7.02 As provided in paragraph [7.14] of the Licence, this Cutting Permit is deemed to be part of the Licence.
- 7.03 The Licence will govern the interpretation of this Cutting Permit.

DATED Dec 62/2/
S.A. Pereverzoff, District Manager
Invermere Forest District

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#### SCHEDULE "A"

#### SPECIAL CONDITIONS AND REQUIREMENTS

#### 1.00 Orderly and Sanitary Condition

The Licensee shall, concurrently with harvesting operations, leave all areas in an orderly and sanitary condition.

#### 2.00 Removal on Termination

The Licensee shall remove all logging equipment on an area of land referred to in paragraph 1.01 of the CP and shall leave all areas in an orderly and sanitary condition upon the earlier of completion of operations or expiry of the CP.

#### 3.00 Discharge of substance

In the event that the Licensee causes or permits the discharge into the land or water of a substance that is, or may be, injurious to health, the Licensee shall promptly notify the Medical Health Officer of the location, time, duration, nature and quantity of the discharge of the substance and shall take immediate action to prevent and cease the discharge.

#### 4.00 Special Forest Products

Subject to designated Forest Official approval, special forest products may be cut at the Licensee's option.

#### 5.00 Cut Control

For cut control purposes, this Cutting Permit is designated as endemic.

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#### SCHEDULE "B" - INTERIOR

#### FELLING, BUCKING AND UTILIZATION SPECIFICATIONS

#### 1.00 FELLING SPECIFICATIONS

- 1.01 Subject to paragraph 1.02, standing timber of the species shown on the table attached to this Schedule must be felled in accordance with the following specifications:
  - (a) all timber meeting the minimum diameter at stump height shown for that species in the table attached to this Schedule must be felled; and
  - (b) unless otherwise authorized in writing by the District Manager, timber must be felled to a stump height that does not exceed the maximum stump height shown for that species in the table attached to this Schedule.
- 1.02 The Licensee must not fell standing timber if
  - (a) the timber is specified in Part 6.00 as reserved timber, or
  - (b) under an operational plan or the Acts, regulations or standards referred to in paragraph [8.01] of the Licence, the Licensee is required not to fell the timber for any reason, including silviculture, biodiversity or other forest management reasons.

#### 2.00 BUCKING SPECIFICATIONS

- 2.01 Subject to paragraph 2.02, felled and dead-and-down timber of the species referred to in paragraph 1.01 must be bucked so as to maximize the volume of logs and slabs which
  - (a) meet the utilization specifications referred to in paragraph 3.01, and
  - (b) are of the species and grades specified as obligatory utilization under Part 4.00.
- 2.02 The Licensee must not buck felled or dead-and-down timber if
  - (a) the timber is specified in Part 6.00 as reserved timber, or
  - (b) under an operational plan or the Acts, regulations or standards referred to in paragraph [8.01] of the Licence, the Licensee is required not to buck the timber for any reason, including silviculture, biodiversity or other forest management reasons.

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#### 3.00 UTILIZATION SPECIFICATIONS

- 3.01 Subject to paragraphs 3.02 and 3.03, the following utilization specifications apply to timber authorized for harvest under this Cutting Permit:
  - (a) all butt logs meeting
    - (i) the minimum diameter at stump height,
    - (ii) the minimum log length, and
    - (iii) the minimum top diameter shown for that species in the table attached to this Schedule must be utilized; and
  - (b) all top logs meeting
    - (i) the minimum log length, and
    - (ii) the minimum top diameter shown for that species in the table attached to this Schedule must be utilized;
  - (c) all slabs meeting
    - (i) the minimum slab length, and
    - (ii) the minimum slab thickness shown for that species in the table attached to this Schedule must be utilized.
- 3.02 The Licensee need not utilize timber of the species and grades specified in Part 5.00 as optional utilization.
- 3.03 The Licensee must not utilize timber if
  - (a) the timber is specified in Part 6.00 as reserved timber, or
  - (b) under an operational plan or the Acts, regulations or standards referred to in paragraph [8.01] of the Licence, the Licensee is required not to utilize the timber for any reason, including silviculture, biodiversity or other forest management reasons.

#### 4.00 OBLIGATORY UTILIZATION

- 4.01 Timber of the following species and grades is specified as obligatory utilization:
  - (a) all coniferous species that are
    - (i) Sawlog Grade (Grade Code Blank), or
    - (ii) Dead and Dry Sawlog (Grade Code 3).

#### 5.00 OPTIONAL UTILIZATION

5.01 Timber of the following species and grades is specified as optional utilization:

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- (a) firmwood rejects;
- (b) all deciduous species of all grades; and
- (c) all coniferous species of the following grades:
  - (i) Lumber Reject (Grade Code 4);
  - (ii) Dead and Dry Lumber Reject (Grade Code 5); and
  - (iii) Undersized Log Grade (Grade Code 6).

#### 6.00 RESERVED TIMBER

- 6.01 The following timber is specified as reserved timber:
  - (a) As per approved Silviculture Prescription(s).

#### 7.00 DEFINITIONS

- 7.01 In this Schedule, as exemplified by the diagrams attached to this Schedule,
  - "butt end" means the log end that was previously attached to the stump;
  - (b) "butt log" means the log cut from the portion of the tree that was previously attached to the stump;
  - (c) "diameter at stump height" means
    - in the case of standing timber, the diameter of the tree (outside bark) measured at the point of the maximum stump height shown in the table attached to this Schedule, and
    - (ii) in the case of a butt log, the diameter (outside bark) at the butt end of the log; and
  - (d) "slab" means one of 2 or more parts of a log produced as a result of the log fracturing along its length;
  - (e) "stump height" means the height of the stump measured on the side of the stump adjacent to the highest ground;
  - (f) "top diameter" means the diameter (inside bark) at the narrowest end of the log;
  - (g) "top log" means any log that is not a butt log.

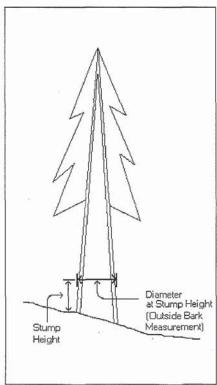
FS 580B RTEB Feb/01

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# SCHEDULE "B" - INTERIOR

# Diagrams and Tables for all Block(s)]

# 1. Falling Specifications



Species	Maximum Stump Height	Minimum Diameter at Stump Height
Lodgepole Pine	30 cm	15 cm
Douglas Fir	30 cm	20 cm
Spruce	30 cm	20 cm
Other species	30 cm	20 cm

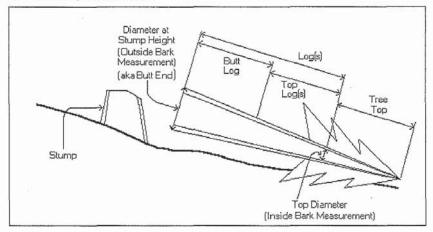
FS 580B RTEB Feb/01

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## SCHEDULE "B" - INTERIOR

# Diagrams and Tables for all Block(s)

## 2. Utilization Specifications



Species	Minimum Log or Slab Length	Minimum Diameter at Stump Height	Minimum Top Diamete or Slab Thickness	
Lodgepole Pine	3 m	15 cm	10 cm	
Douglas Fir	3 m	20 cm	10 cm	
Spruce	3 m	20 cm	10 cm	
Cedar	3.m	20 cm	15 cm	
Other species	3 m	20 cm	10 cm	

Note: Minimum top diameter or slab thickness (inside bark measurement) for cedar older than 141 years is 15.0 cm.

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Forest:

Invermere Forest District

Name:

Business Key:

A18978 CP 156 CB 6

Applicant's Name:

TEMBEC INDUSTRIES INC.

Applicant's Address:

CANAL FLATS

FLCPA18978\_XBA\_DIN

CRANBROOK

V1C4J7

Purpose: NEW

ATTENTION ACCOUNTS PAYABLE BOX 4600

LANDS TO BE CLEARED SHOWN IN BOLD BLACK ON THE MAP

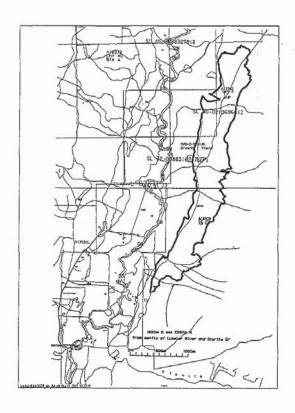
MARKED "EXHIBIT A", DATED: 2001/11/01

ND ATTACHED HERETO

"EXHIBIT A"

Name: A18978 CP 156 CB 6

Date: 2001/11/01





Tome of Commencement.
082J012 Diorite Creek Block 6: 203.1 ha POC: 1695mE and 2380mN of conflu. of Lussier River and Diorite Creek Growth and Yield Plot 2145 on Edge of Block, No encrouchment on Private Land. Excluded thereout FSR 4603.05, Save and Excepting prior rights of R12381, A18978 cht 32

Point of Termination:

Subject To:

#### ATLAS AND LEGAL SURVEYS REPORT

Refers To:

COAL LICENSE CONFLICT:

N

Adjudication Date:

2001/11/01

MINES REPORT CONFLICT: N

...

Adjudicated By:

DEWATERE

ALR REPORT CONFLICT: Approved:

~

Disallowed:

#### Division WESTERN CANADA Division

220 Cranbrook Street North P.O. Box 4600 Cranbrook, British Columbia V1C 4J7 Téléphone : (250) 426-6241 Télécopieur / Fax : (250) 426-5372

RECEIVED

FEB 1 3 2007

MINISTRY OF FORESTS & RANGE

CRANBROOK, BC

February 9, 2007

Ministry of Forests and Range Rocky Mountain District 1902 Theatre Road Cranbrook BC V1C 6H3

Attn: Gary Dolynchuk

Tenures Supervisor

Dear Gary:

Enclosed with this letter are the original approved Cutting Permit documents (A18978 – CP 156, CP 211, CP 228 and TFL 14 – CP 165) that are part of unharvested CP Surrender package that was approved on January 30<sup>th</sup>, 2007. Cutting permits A18978 – CP 151 and A19040 – CP 181 will follow upon additional harvest prior to the CP Surrender dates of Dec. 31/07 and May 1/08 respectively.

If you have any questions please contact me at (250) 426-9247.

Yours truly,

Chris Stagg, RPF

Chief Forester, Tembec Enterprises Inc.

Western Canada Operations

CS:II

Encl.

pc:

Brian Dureski, Tembec – Kootenay Central Region Ken Streloff, Tembec – Kootenay Columbia Region Paul Frasca, Tembec – Kootenay Columbia Region



## **ROUTE TAG 12**

## REAPPRAISALS AND EXTENSIONS

FL/T	FL: <u>A/8978</u> CP: Expiry Da	te: Much 31/2007
I	ESOURCE CLERK(1 day) Pull file and attach appraisal and NF176 record in ledger forward to Pre-award Tech	1NITIALS/DATE -
-1	PRE-AWARD TECH (10 days) review Extend Delete Use RT #13 re-appraise yes no (no further action update work events (#20)	on) MA/04/10/14
	ENGINEERING (3 days) Sign appraisal if applicable	N/A.
-	rimber tenures officer (1 day) -confirm need for extension -sign appraisal/engineering if applicable	N/4
1	RESOURCE CLERK (5 - 10 days) -forward Appraisal/NF176 sheet to notify Valuation -if only extending-send e-mail to Kamloops advisin to have rates extended -extend date in ftas/events, record date in ledger -hold for rates -prepare extension letter -update work events	18 04/10-121
6.	-copy of reappraisal to licencee  DISTRICT MANAGER (1 day) -sign	291 04/10 / 21 M/W
	RESOURCE CLERK (1 day) -Mail extension letter	NA
8.	C&E INSPECTOR	MX) 04 10 22
9.	QUALITY ASSURANCE	lew 04/11/09

G:\!Workgrp\wpdocs\RTE\_TAGS\0143F.DOC 2003/11/13



File: 19500-45/A18978

November 4, 2003

Tembec Industries Inc. Box 4600 Cranbrook, British Columbia V1C 4J7

Dear Sir/Madam:

Re: A18978 - North Region

Pursuant to authority contained in the following permits, extension is hereby granted terminating on the following date. On that date all your rights under these specified permits will cease.

Cutting Permit	Timber Mark	Expiry Date Extention
105	EY6105	March 31, 2007
108	EY6108	March 31, 2007
132	EY6132	March 31, 2007
138	EY6138	March 31, 2007
141	EY6141	March 31, 2007
143	EY6143	March 31, 2007
144	EY6144	March 31, 2007
149	EY6149	March 31, 2007
150	EY6150	March 31, 2007
151	EY6151	March 31, 2007
152	EY6152	March 31, 2007
156	EY6156	March 31, 2007
163	EY6163	March 31, 2007
173	EY6173	March 31, 2007
178	EY6178	March 31, 2007
179	EY6179	March 31, 2007
180	EY6180	March 31, 2007
181	EY6181	March 31, 2007
186	EY6186	March 31, 2007
188	EY6188	March 31, 2007
189	EY6189	March 31, 2007

Page 1 of 2

Ministry of Forests Rocky Mountain Forest District

1902 Theatre Road Cranbrook, B.C. V1C 7G1 1902 Theatre Road Cranbrook, B.C. V1C 7G1

Tel: Fax: (250) 426-1700 (250) 426-1777

Cutting Permit	Timber Mark	Expiry Date Extention
190	EY6190	March 31, 2007
192	EY6192	March 31, 2007
193	EY6193	March 31, 2007
194	EY6194	March 31, 2007
202	EY6202	March 31, 2007
209	EY6209	March 31, 2007
214	EY6214	March 31, 2007
215	EY6215	March 31, 2007
216	EY6216	March 31, 2007
343	EY6343	March 31, 2007
199	EY6199	March 31, 2007
399	EY6399	March 31, 2007

This notice forms an integral part of the Permit document and should be attached thereto.

Yours truly,

Original Signed By Tony Wideski, R.P.F.

Tony Wideski, RPF District Manager Rocky Mountain Forest District

## **ROUTE TAG 12**

#### REAPPRAISALS AND EXTENSIONS

RESOURCE CLERK(1 day)	INITIALS/DATE
-Pull file and attach appraisal and NF176	
-record in ledger	lb 03/09/25
-forward to Pre-award Tech	107/00
2. PRE-AWARD TECH (10 days)	
-review	
-Extend Delete Use RT #13re-appraise if neccessary	
-update work events (#20)	ML 0310-01
≥	7
3. ENGINEERING (3 days) Sign appraisal if applicable	PIA
Sign appraisar it applicable	1 111
4. TIMBER TENURES OFFICER (1 day)	
-confirm need for extension	fo 10-1
-sign appraisal/engineering if applicable	<i>P</i> 10
5. RESOURCE CLERK (5 - 10 days)	
-forward Appraisal/NF176 sheet to Valuation	
<ul> <li>-if only extending-send e-mail to Kamloops advito have rates extended</li> </ul>	sing
-extend date in ftas/events, record date in ledger	08 03/10/06
-hold for rates	Sport
-prepare extension letter	
-update work events -copy of reappraisal to licencee	
copy of reappraisa to neciece/	
6. DISTRICT MANAGER (1 day)	110
-sign	11/6
7. RESOURCE CLERK (1 day)	- 10:
-Mail extension letter	MIL
B. C&E INSPECTOR	
o. Car hisrector	C OCT 8 0 2803
O. QUALITY ASSURANCE	J- UCI U V 2803

143F 2003/09/11

#### Borho, Georgina FOR:EX

To: Subject:

Davidson, Linda FOR:EX CP extensions

Please extend the following CP'S in your systems to end of October, 2004.

A18978 CP 141-EY6141 A18978 CP 156-EY6156 Thanks.

Georgina Borho Resource Clerk Rocky Mountain Forest District
Phone: (250)426-1755
Fax: (250)426-1777
E-mail: Georgina.Borho@gems4.gov.bc.ca



#### Division BRITISH COLUMBIA Division

220 Cranbrook Street North P.O. Box 4600 Cranbrook, British Columbia V1C 4J7 Téléphone : (250) 426-6241 Télécopieur / Fax : (250) 426-5372

September 25, 2003

Ministry of Forests 1902 Theatre Road Cranbrook, B.C. V1C 6H3 SEP 3 8 2003 MINISTRY OF FORESTS CRANBROOK, BC

File: FL A18978 CP 141 & 156

Attention: Tony Wideski, District Manager

Subject: Reappraisal - CP 141 & 156

Dear Tony:

Please renew Cutting Permits and appraisals for CP 141 in the Mudd Creek and CP 156 in the Ram Creek area for FL A18978. These permits expire on October 31, 2003. There have been no significant changed circumstances as identified in Section 2 of the Interior Appraisal Manual, therefore, a reappraisal is not required.

If there are any questions or concerns please contact the Canal Flats office.

Yours truly,

Barry Benson Planning Superintendent, North Region

/cb





#### TEMBEC INDUSTRIES INC.

SILVICULTURE PRESCRIPTION AMENDMENT JAN 2 SOCIETY STORES Resource Management – Kootenay North Region

A Silviculture Plan/Amendment prepared in accordance with tection 35 of the Forest Practices Code of British Columbia Act (Bill 75-2002)

TENURE DESCRIPTION

Amendment #: 1		Map Sheet - Opening: 82J002/090		
FL A18978 CP: 156		Block #: 006	Timbermark: EY6-156	
Original SP or Las	st Amendment Date	Amendment is: () Significant	Advertisement () Attached	
Original: Decemb	er 19, 2001	(x) Not Significant	(x) N/A	

#### REASON FOR AND DESCRIPTION OF AMENDMENT

Goshawks have constructed additional nests in the cutblock since this Prescription was approved in December of 2001. The nest trees and additional habitat in the vicinity has been reserved as Wildlife Tree Patch. The WTP is an addition to WTP #3 identified in the original SP.

Revised is Section A Area Summary and Section C Forest Resources Identified in the Forest Development Plan Requiring Certain Site Conditions After Harvesting or Site Treatment.

#### .Amendments are in bold and italics

#### From:

#### A. AREA SUMMARY (Hectares)



STANDARDS UNIT	TOTAL AREA	NON PRODUCTIVE ROADS & LANDINGS	NON PRODUCTIVE NATURAL	RESERVES	OTHER	NET AREA TO REFOREST
1	203.1	7.9		16.8	8.7	169.7
TOTAL	203.1	7.9		16.8	8.7	169.7

#### COMMENTS:

The 'Reserve Other' refers to 8.0ha of Riparian Buffers established adjacent to S6 streams to ensure that harvesting does not increase sedimentation in the Lussier River and 0.7ha of mature timber that will provide stand structure. The reserves were recommendations from a Hydrologic Implication Report and field reviews.

#### To:

#### A. AREA SUMMARY (Hectares)

STANDARDS UNIT	TOTAL AREA	NON PRODUCTIVE ROADS & LANDINGS	NON PRODUCTIVE NATURAL	RESERVES	OTHER	NET AREA TO REFOREST
1	203.0	7.9		21.4	8.7	165.0
TOTAL	203.0	7.9		21.4	8.7	165.0

#### COMMENTS:

The 'Reserve Other' refers to 8.0ha of Riparian Buffers established adjacent to S6 streams to ensure that harvesting does not increase sedimentation in the Lussier River and 0.7ha of mature timber that will provide stand structure. The reserves were recommendations from a Hydrologic Implication Report and field reviews.

WTP #3 has been increased in size by 4.6 ha to provide Goshawk habitat.

SILVICULTURE PRESCRIPTION

CP 156 BLOCK 006 AMENDMENT #1

PAGE 1

## From:

# C. FOREST RESOURCES IDENTIFIED IN THE FOREST DEVELOPMENT PLAN REQUIRING CERTAIN SITE CONDITIONS AFTER HARVESTING OR SITE TREATMENT:

FOREST RESOURCE VALUE	SITE CONDITIONS TO EXIST AFTER HARVEST OR SITE TREATMENT
Domestic Water Supply Intakes	Unnamed stream 1, a licensed stream (C036984LSE7777) was substantially diverted for domestic purposes immediately below the Ram Creek Forest Service Road (outside the proposed block). Where this stream flows through the proposed block, a minimum 20m wide riparian buffer was established adjacent to both sides of the stream, where no harvesting will be undertaken.
145010G	BC Government line-work obtained from Forest Development Plan maps shows the domestic watershed to be south of the actual stream in an area de-void of streams.
Wildlife Habitat Feature	An active Goshawk nest was identified in the block. The Goshawk nest is 14.1m from the ground in a healthy aspen tree that is 44cm in diameter and 23.1m in height. The nest tree and several perch sites are incorporated into WTP #3. The silviculture system for the remainder of the block is single tree selection with a maximum 20 % basal area removal. A seasonal harvesting restriction has been prescribed to avoid disrupting the goshawks during their breeding period (see Section F for further details).
50 2	Based on the lack of available information regarding Goshawks, it is unknown whether this system will ensure future re-occupancy of this Goshawk breeding territory. This nest and WTP are part of a Tembec experimental research and monitoring trial studying goshawk nest re-occupancy rates following various harvesting prescriptions (adaptive management).

#### To:

# C. FOREST RESOURCES IDENTIFIED IN THE FOREST DEVELOPMENT PLAN REQUIRING CERTAIN SITE CONDITIONS AFTER HARVESTING OR SITE TREATMENT:

FOREST RESOURCE VALUE	SITE CONDITIONS TO EXIST AFTER HARVEST OR SITE TREATMENT					
Domestic Water Supply Intakes	Unnamed stream 1, a licensed stream (C036984LSE7777) was substantially diverted for domestic purposes immediately below the Ram Creek Forest Service Road (outside the proposed block). Where this stream flows through the proposed block, a minimum 20m wide riparian buffer was established adjacent to both sides of the stream, where no harvesting will be undertaken.  BC Government line-work obtained from Forest Development Plan maps shows the domestic					
	watershed to be south of the actual stream in an area de-void of streams.					
Wildlife Habitat Feature	An active Goshawk nest was identified in the block. The Goshawk nest is 14.1m from the ground in a healthy aspen tree that is 44cm in diameter and 23.1m in height. The nest tree and several perch sites are incorporated into WTP #3. The silviculture system for the remainder of the block is single tree selection with a maximum 20 % basal area removal. A seasonal harvesting restriction has been prescribed to avoid disrupting the goshawks during their breeding period (see Section F for further details).					
	WTP #3 is increased in size by 4.6ha to accommodate additional Goshawk nests constructed in the Spring of 2002.					
	Based on the lack of available information regarding Goshawks, it is unknown whether this system will ensure future re-occupancy of this Goshawk breeding territory. This nest and WTP are part of a Tembec experimental research and monitoring trial studying goshawk nest re-occupancy rates following various harvesting prescriptions (adaptive management).					

SILVICULTURE PRESCRIPTION

CP 156 BLOCK 006 AMENDMENT #1

PAGE 2

#### I. ADMINISTRATION

Licensee acknowledgement of the requirements under Section 70 (4) of the Forest Practices Code of British Columbia Act.

TEMBEC INDUSTRIES INC.

Douglas R. Braybrook, R.P.F.

Douglas R. Braybrook

Map Attached: YES

Douglas R. Braybrook

Person completing this prescription

B.C. Ministry of Forests Approval

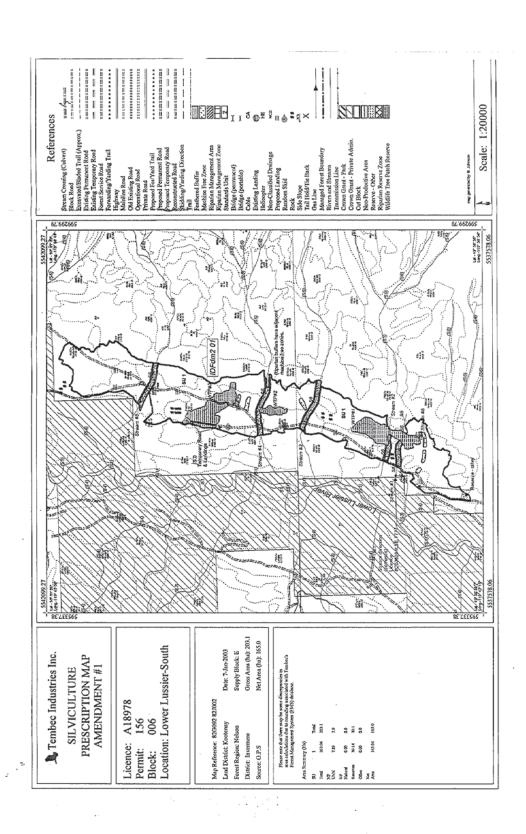
Master SP Form Revised: June 5, 1998

District Manager or designate

SILVICULTURE PRESCRIPTION

CP 156 BLOCK 006 AMENDMENT #1

PAGE 3









Date:

January 17, 2003

TEMBEC INDUSTRIES INC. WOODLANDS ACCOUNTING BOX 4600 CRANBROOK BRITISH COLUMBIA

V1C 4J7

In reference to: Client Number:

00001402 A18978

Forest File: Cutting Permit: Timber Mark:

156 EY6156

Invermere Forest District Nelson Forest Region

#### Stumpage Advisory Notice

Attached is a summary of the appraisal information used in determining the stumpage rate for this cutting authority.

The cutting authority Total Stumpage Rate of \$4.67 per cubic metre is effective for sawlogs scaled between

November 01, 2002 and December 31, 2002

inclusive unless this cutting authority is reappraised during this period in accordance with the applicable Appraisal Manual.

The Miscellaneous Stumpage Rates listed in the applicable Appraisal Manual in effect on the date of scale take precedence over the above rate. A levy and/or bonus may be applied to any Miscellaneous Stumpage Rate.

Objections to this rate determination should be brought immediately to the attention of the undersigned in this office. The formal 21 day review period specified in the Forest Act begins upon delivery of this notice. Consideration of any objection does not delay the determination nor stop the 21 day review period. Any rate change or redetermination as a result of an objection will result in a new Stumpage Advisory Notice being issued.

The Reserve Rate will be redetermined on January 1, April 1, July 1, and October 1 each year, or on any date specified by the Minister of Forests, according to appraisal policies then in effect.

Please be advised that this letter and information is releasable under the Freedom of Information and Protection of Privacy Act.

FSZ Neil Bow

Timber Pricing Officer (A)

Attachment

This notice forms an integral part of the cutting authority document and should be attached thereto.

FOAVL1

DISTRICT COPY

#### Page 2 of 2

Date:

January 17, 2003

In reference to:

Client Number: Forest File: 00001402 A18978

Cutting Permit: 156 Timber Mark: EY6156

Invermere Forest District Nelson Forest Region

The following is a listing of cutting authority and individual species rate calculations effective when scaled between

November 01, 2002 and December 31, 2002

inclusive unless this cutting authority is reappraised during this period in accordance with the applicable Appraisal Manual.

	77 <u>22</u> 7 (1942) 97 (1927)	220		Species Rate Calculation Detail					
	Cutting Authority Rate Calculation Detail		Species Code	Reserve Rate (\$/m3)	Silviculture Levy (\$/m3)	Development Levy (\$/m3)	Upset Rate (\$/m3)	Bonus Bid (\$/m3)	Total Rate (\$/m3)
	Estimated Value	\$114.99	FI	4.67	0.00	0.00	4.67	0.00	4.67
_	Estimated Cost	\$106.30	LO	4.67	0.00	0.00	4.67	0.00	4.67
===	Stand Value Index	\$8.69	1						
-	Mean Value Index	\$23.33	11						
+	Base Rate	\$19.31	11						
=	Indicated Rate	\$4.67							
	Reserve Rate	\$4.67							
+	Development Levy	\$0.00							
+	Silviculture Levy	\$0.00							
=	Upset Rate	\$4.67							

This notice forms an integral part of the cutting authority document and should be attached thereto.

DISTRICT COPY

FOASA1

REPORT ID: IASR083 RUN DATE: 2003-01-17 RUN TIME: 10.01.38

MINISTRY OF FORESTS INTERIOR APPRAISAL SYSTEM LOGGING AND SILVICULTURE COST PAGE: USERID: TRKERBY DATABASE: SQLPI

ESTIMATE

Timber Mark: EY6156

Appraisal Effective Date: 2002-11-01

Nelson Forest Region Invermere Forest District

Licence: A18978 Cutting Permit: 156

Invermere TSA Block E

Calculation Date: 2003-01-17

Total Volume: 5,606 2003-10-31 Expiry Date:

Logging Trend Factor: 1.000 1.000 Silviculture Trend Factor: Manufacturing Trend Factor: 1.000 MVI Eligible Indicator: Adjust Quarterly Indicator:

Stumpage Rate Effective Date: 2002-11-01

Subphase Phase Total Cost (\$/m3) (\$/m3)

DEVELOPMENT:

PHASE

Tabulated Culverts Roads

Fencing and Cattle Guards Allocated Development Engineered Development

s.17, s.2

TREE TO TRUCK:

Ground Skidding (Clear Cut) Ground Skidding (Partial Cut)

Overhead Cable Yarding Highlead & Grapple (Clear) Overhead Cable Yarding Highlead & Grapple (Partial) Overhead Cable Yarding Skyline

Helicopter Logging (Clear) Helicopter Logging (Partial)

Horse Logging Specified Operation

LOG TRANSPORTATION:

Hauling Primary Secondary

Water Transportation Special Transportation and Specified Operations

Road Management Road Use

REPORT ID: IASR083 RUN DATE: 2003-01-17 RUN TIME: 10.01.38	MINISTRY OF FORESTS INTERIOR APPRAISAL SYSTEM LOGGING AND SILVICULTURE CO		2 TRKERBY E: SQLP1
Timber Mark: EY6156	ESTIMATE Appraisal Ef	fective Date:	2002-11-01
PHASE		Subphase Cost (\$/m3)	Phase Total (\$/m3)
ADMINISTRATION & OTHER: Overhead			17, s.21
Low Volume additive:			
TOTAL LOGGING COST:	-	s.17, s.21	
TOTAL TRENDED LOGGING COS SILVICULTURE: Basic Specified	Γ:		s.17, s.21
TOTAL TRENDED SILVICULTUR	E COST:		

\*\*\* Normal end of report \*\*\*



#### Division BRITISH COLUMBIA Division

220 Cranbrook Street North P.O. Box 4600 Cranbrook, British Columbia V1C 4J7

Téléphone: (250) 426-6241 Télécopieur / Fax: (250) 426-5372

January 8, 2003

Ministry of Forests Box 189 Invermere, B.C. V0A 1K0

File: FL A18978

Attention: Tony Wideski, District Manager

Re: SP Amendment #1

Dear Sir:

Please find enclosed for your approval a Silviculture Prescription Amendment for the following block in the Canal Flats operating area for FL A18978:

Location	CP _	Block
Ram Creek	156	006

Please contact our Canal Flats area office if you have any concerns or questions.

Yours truly,

Barry Benson

Planning Superintendent, North Region

CC: FRM, Cranbrook Office

/cb

L'ESPRIT D'INNOVATION

THE SPIRIT OF INNOVATION

Encl.: SP Amendment & map

NOTIFICATION OF RECEIPT AND ACKNOWLEDGEMENT

DATE Jan 21/03

Ministry of Forests

Invermere Forest District
File # 19500 - 50 /A(897) CP (56

Amendment #

Page 91 FNR-2011-00107

# MAJOR TENURE REAPPRAISAL AND EXTENSION ROUTE TAG

CHARGE	DUTIES	<b>#</b>	INITIAL/DATE
RESOURCE CLERK	upon receipt of rea Sattach route tag Update PC list re		<u>CL 1 Sept 9/02</u>
PRE AWARD TECH  May   Complete the control of the c	CP scheduled in I Yes No CP extended for PHSP submittee PHSP & apprair complete apprair Licensee advise Copy of changes update events in	r 12 months using d/approved for each sal data correspontial review & field of any appraisal & signature page	previous data ch block d I check review I changes
R.O. Timber	☐review and sign☐review processi		seet 51.3/12/02
RESOURCE CLERK	Update PC list  Fax appraisal and complete extensions of the complete exten	sion letter ting/timber/CPEX or signature	on, file on oper. file  TEND  Ch 1Dec3/52

 $G: \verb||WorkGrp|| RESOURCE \verb||HARVESTI|| ROUTETAG \verb||EXTENRT.DOC||$ 



#### Province of British Columbia Forests





# FAX HEADEF CP 156

	TO			FROM
NAME M.	T O SEREDIUK		NAME	FROM M. SMED
MINISTRY OFFICE OR FACILITY			MINISTRY OFFICE OR FACILITY	
PHONE NO.	FAX NO.		PHONE NO.	FAX NO.
SENT BY		DATE Y M D	NO. PAGES TO FOLLOW	AUTHORIZED SIGNATURE
	MEO.	steed was	;+h >	D.scussia
		<u> </u>	PLY	
	5 - 7 m			
	+)			

FS 7 HTA 92/9 MR 2437



# **Facsimile Cover Sheet**

To:	Mark Serediuk
Company:	Tembec - Canal
Phone:	
Fax:	
From:	Nathan Stairs
Email:	
Phone:	342 4229
Fax:	342 4247
Date:	01/11/21
Pages including this cover page:	1

#### CP 156 Appraisal

woll harsh but not much I cando.
Northan

Hi Mark. I got your fax of Nov 16 with the adjustments you've made. The following is what I have signed off and my rationale:

- 3. Replacement of rd running surfac \( \frac{1}{2} \) 6 km: you have deleted the gravel and the D8 and left hrs with a grader. However while not gravelling the road sounds like the correct approach vit leaves simply grading the road as not eligible as an engineered estimate. There for I have not entered an amount for this item.

Page 94 FNR-2011-00107

Тур	Number			
cing(100's of meters)				
Cattle Guards				
Pipeline Crossings				
*** Allocated Development  Applicable Volume*  * Complete only	•	M <sup>3</sup>		reements)
	Original Cost E	stimate	Trend	1999 Cost
** Identifier	Estimate \$	Year	Factor	Estimate \$
	Lotinato v	1001	T doto:	Louinato V
			<del>                                     </del>	
	-		1 1	<del>,</del>
			+	
			-	
*Complete only when d	ifferent from Cutting Author  Original Cost E		Trend	50 N. Stair
** Identifier	Estimate \$	Year	Factor	Estimate \$
Road Construction Sec 2	\$1,541.00	1999		\$1,541.00
Deactivation Sec 1	\$3,306.00	1999		\$3,306.00
Replacement of road running			1	
Surface 6 km	\$4,220.00	1999		\$4,220.00
R.O. Engineering  ** Signature :	iance not	ELE	*	
Approval Date:				
Applicable Volume: Complete or	nly when different from C	utting Autho	rity Volume.	
Please ensure that it is evident w	ruction, new road, replac	e bridge, end		
road closure, as per the Appraisa	al Manual sec. 4.pp.21-26			
		4.		
road closure, as per the Apprais		4.		
To be trended as per the Apprais		4.		8/27/02

4. Other Structures (Sec. 4 p. 22)

#### INVERMERE FOREST DISTRICT APPRAISAL FIELD CHECK REVIEW

्र स्थित	
INVERMERE FOREST DISTRICT APPRAISAL FIELD CHECK REVIEW	
Licencee: ICHISE Licence: A19978 CP: 156 Mark: EVELSE  Effective Date: C-111 101 (Yr/Mo/Da) Expiry Date: 031/0131 Cruise Based: Yes(No)- Appraisal Type: New Reappraisal Damage or Amendment (From NF 194)  Location: Course Cusses South	
Respond to the following questions with $\checkmark$ if field check has been completed, or with $\times$ if field check has anot been completed (if $\times$ then briefly explain).	
<ul> <li>□ Cutting Permit has been Check Cruised? If not, complete * below.</li> <li>* □ Checked species, timber type, age, height, and vol/ha information.</li> <li>□ Road Permit roads have been constructed.</li> <li>□ Block roads and operational landings have been constructed.</li> </ul>	
Tree to Truck:  Harvesting systems are required as specified.  Sensitive Site designation appropriate.  Specified Operation is required.	,
Log Transportation:  Verified cycle times for new road sections, and/or spot check cycle times.	+
Development, Drainage Structures:  Check requirement for drainage structures; size, length, and number.  Tabular bridge location, type, span and crib height. R.O. Eng.: Initial Date://	* * *
Development, Tabular Roads:  Verified road construction, type, length, moisture, side slope and % rock.  Verified road; stabilizing length, depth, haul distance and material type.  Wing fencing/Cattle Guards (if applicable).	
Engineered Development:  Need for field inspection- L_ M_ H_ by Eng Timb by Date:/_/  Verified Engineered Development costs.  Road Permit coincides with Appraisal Initial (R.O. Eng/Eng. Ass't)  R.O. Eng.: Initial Date:/_/	
Basic Silviculture:  Urified Root Disease present and treatment as specified.	
REAPPRAISAL*  (*Through consultation with Compliance)  Verified additional/deleted area. NA  Verified cutblocks/portions of cutblocks remaining to be cut.  Verified road construction, and development as specified.  Verified reappraisal reflects actual harvesting/silvicultural treatments.  VARIANCE: Yes   No   (Note on ledger)	
Comments:	
If changes are made to the submitted appraisal as a result of office or field review and/or variances are found comment on a greensheet and attach it to this form.	
Field Review by: Man R.A. Timber Date: 01 109 123	
Ledgered by: Valuation Tech. Date: / /	
Approved by:R.O. Timber Date: 63/12/62	
and the second of the second o	Y SEE SE



#### Division BRITISH COLUMBIA Division

220 Cranbrook Street North P.O. Box 4600 Cranbrook, British Columbia V1C 4J7



Téléphone: (250) 426-6241 Télécopieur / Fax: (250) 426-5372

August 27, 2002

SEP - 6 2002

Ministry of Forests

Box 189

Invermere, B.C. V0A 1K0

File: F.L. A18978 C.P. 141, 156, 186

Re: Reppraisal - CP 141, 156, 186

Dear Serg:

Please renew Cutting Permits 141, 156, 186 for FL A18978 which expire on October 31, 2002. To assist in reappraisal, Interior Appraisal Data Sheets are included.

If you have any questions or concerns please call the Canal Flats office.

Yours truly,

Dave P.C. Brown

Administrative Forester

CC:

Barry Benson

Canal Flats Planning Superintendent

/cb

L'ESPRIT EnchyAnterior Appraisal Data Sheets





FILE:	19500-8	DO BIPSIA OC	P156.	Reminde	r - Check FTAS	;
DATE:	Dec. 3/0	2		MARK:	E46156	
FAX TO:	354-6250 File Room	(Pull file/make up file	& forward w/na	ckage to Revenu	e Section)	
	Revenue S		a totward w/pe	chage to hevenu	e decitori)	
Comments:	Nelson Forest	Region				
Attention:	Appraisal Cle	rk				
	Appraise (N	ew) Rea	appraise	Amendme	ent	
NF 194 AT	TACHED:					
	[.					
Please check: (IF APPLICABL		id Proposal Direct Sale		Salvage Sa L/C under		
(ii Air Eionea		on cor care		L o andor		
NF 194 NO	T ATTACI	HED: (EXTEN	SIONS)			
FTAS UPDATE	D:		TIMBE	R MARK:		
-	Extend FIXED	Rates to	YYMM	_DD		
	Extend ADJU	STING Rates to	YYMM _	DD (Require A	Approval)	,
NOTE: TENURE OFFI	CER/SB FORE	STER APPROVAL (	OF ADJUSTING	RATE EXTENS	ION:	
		Date:				
Initials;					_	
Extension of ad	the next year	re only permitted if no or there is less than a				
Extension of ad authority during	the next year ority.			chantable timber		Forest District





Ministry of Forests



# INTERIOR APPRAISAL DATA SUBMISSION

Licence	FLA18978	Permit	156	Mark	E16156		
Licencee	Tembec	Inc.					
	Ā	CKNOW	LEDGEM	ENTS	** 2 *		
harvested, site prepared accor	rding to the Interior	ing, developme	ent, and silvicultu		the timber to be ther information, all		
☑ Check if appropriat							
eng					ified operation or detailed ince the last appraisal or		
Ll_ cutt	I certify that there are less than 2 000 cubic metres of merchantable timber remaining on the cutting authority area and that no timber is expected to be harvested during the next year. I am requesting that the current stumpage rate be extended.						
☑ Check one of the b	ooxes below if the work here	in has not been cam	ed out directly by the sig	ning RPF			
	ertify that the work d			s acceptable of	f a Registered Professional		
des des		mined that this			nally supervise the work ards acceptable of a		
Registered P	rofessional Fores	ter:		-57			
Name: Ba	my Benson	R.P.F. #	3022	RPF's Sig	nature and Seal:		
Phone: (250	1349-529				7/2		
Fax: (25%)	349-525						
E-mail Addre	ss:				A		
Date (ccyy/m	ım/dd): 200	2/08/2	7				
The informatio		package may t	e released unde	r the Freedom	of Information and		

April 1, 2002

Page 1

#### Interior Appraisal Data Sheet

Licensee:	[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	Interior Appi	aisai Manuai e Mark:	ffective July 1, 2 EY6156	001	
Licence No.:			CP:	156		
Effective Date:	02/11/01		Expiry Date:	03/10/31		04
5 01-2003 AV	yy/mm/dd			yy/mm/dd		
Cruise-Based: (Y or N)		•				
Appraisal Type (X one) :	New		Reappraisal			
( Sec. 2 pp. 3 to 9)	Amendment					
Compilation SE% =	· · · · · · · · · · · · · · · · · · ·	Check Cr	uised: (Y or N)			
Geographic Location:	Lower Lussier S	outh	Supply Block:	E		
AREA (Hectares to nearest	0.1)		VOLUME (M3	to nearest whole	e number)	
Total Merchantable Area =	164.1	ha	Merch. Volume	Cruised =	5606	_m3
Minus Area of roads harvest	ed		Minus Volume	from roads harve	ested	
under another mark =		ha		mark (if part of		
Other mark =		đ		volume above) =		_m3
Dive Area of roads baryostas				reserved on part moved above) =		m3
Plus Area of roads harvested outside of cut blocks			areas (II HOLFE	moved above) = _		_1113
under this cutting authority		L.		rom roads harves	ted outside	2
mark (if applicable) =		.ha	cut blocks (if a		117.00	_m3
Original merch. area = Plus Additions:	164.1	ha ha	Original merch	. volume = Plus Additions:	5606.	_m3 _m3
Minus Deletions:	11116	ha	N	linus Deletions:		_m3
- Net Total merch. area=	164.1	ha	Total current	merch. vol.=	5606.	m3
Net Total Mercil. area-	104.1	·IIa	(Sec. 4 pp.4,5)		3000.	-1113
Area remaining to be cut =	164.1	ha		volume remaining =	5606	_m3
Pt. of Appraisal(Sec. 2pp12,13	Canal Flats		Ac	tual Destination:	Canal Flats	
Isolated Cutting Author		N	Specified C	peration: (	Y or N)	Y
2	4774	( Sec.4 pp.49)	-			(Sec.4 pp
Species	Volume	Decay	Stud Log %	LE - (Sec. 4 p. 4) Cruise Average	Burn (%)	Selling Price
Species	(m3)	(%)	(Sec.3 pg 9)	LRF	(L,M & H)	Zone 7,
	(Sec.4 pp 4,5)	(Sec.4 pp 4,5)		(Sec.4 pp 4,5)	(Sec.3 pg 6)	17 or 37*
Balsam (BA)						
Cedar (CE)			11.12			]
Douglas fir (FI)	3079	4	33	186	0	
Hemlock (HE)						1
Larch (LA)	0.50			461		7
Lodgepole pine (LO)	2527	11	93	164	0	4
Course (CD)						1
Spruce (SP)			by self-use			
White pine (WH) Yellow pine (YE)						-

Up

				C			

Support Centre (Sec.4 p.30-31)	Canal Flats	Distance (km):	41
	State and the state of the stat		1-11-111-11

	Ground Skidding			head ble	Skyline >300m or	Helicopter
	Clear Cut	Partial Cut *	Clear-cut	Partial Cut	Int. Sup.	(Sec.4.pp 33)
Variables (Sec.4 pp. 28)	(Sec.4.pp33,4)	(Sec.4.pp33,4)	(Sec.4.pp 34,5)	(Sec.4.pp 34,5)	(Sec.4.pp35,6)	
Area (Hectares)		164.1				
Vol. to be Harvested* -m3 (Sec.4 pp5)		5606				
Biogeoclimatic Zone **(Sec. 4 pp. 29)		IDF				
Volume/tree - m3(Sec. 4 pp. 31)		0.27				
Volume/hectare - m3(Sec. 4 pp. 29)		34				
Stand Defect (DWB %)(Sec. 4 pp. 31)		11				
Partial cut % *** (Sec. 4 pp. 29,30)		18			washing the	Trans. Co. C.
Average Slope - % (Sec. 4 pp. 29)		30				
Blowdown - % (Sec. 4 pp. 29)		25				
Heavy Fire Damage - % (Sec. 4 pp. 36)		0				
Dead Useless Snags -%(Sec.4 pp.36)		12				1
Skyline Yarding Slope Distance (Sec.4 pp.32	)					
Heli Yarding Map Distance (Sec.4 pp.32)	- Same - 40		100000000000000000000000000000000000000	a property and	and the second of	
Hemlock ****				The second second	5 - 6	
Douglas fir ****	1400,000	10.000	Table (		200	interfacility in
Spruce ****	\$ 4.55		ak Parladia	Testa de	1.5174.57	
Lodgepole Pine ****		2.00				

	Volume m3	Hectares
Horse Logging (Sec.4 pp.33)	3	

<sup>\*</sup> Volume to be harvested based on factored volumes.

All partial cut 90% removal and greater are clear cut.

\*\*\*\*\* Volumes to be taken from the Harvest Method Summary of the Cruise compilation

Total Volume (m3) based on above harvesting systems =	5606	Total Hectares =	164.1
Total volume (m3) based on above harvesting systems -	3000	Total nectares =	104.1

Specified Logging Operations \*\*\*\*(Sec. 4 pp.3)

Description:	Volume (m3)	Cost Estimate \$/m3
Wall - Am Hat m Walland		

<sup>\*\*\*\*</sup> Attach Specified Logging Operations details.

Note:

Skidder swing will only be considered between harvest methods listed in Sec. 4.4.1 (four methods), in order to deliver logs to an existing or appraised road/landing

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<sup>\*\*</sup> Dominant zone by volume of system.

<sup>\*\*\*</sup> Partial Cut - ground skidding, cable or helicopter: 1-89% of total merch. vol. removed.

#### LOG TRANSPORTATION DATA (Sec.4pp 38-42) Hauling: **Highway Haul** Off Highway Haul X Secondary Haul Time hours Primary Cycle Time Calculation Time (minutes) Road Distance Speed (km/hr) Identifier (Primary/Secondary) Loaded Loaded (km) Empty Empty 28.0 90.0 100.0 18.7 16.8 Highway To Secondary 10.2 10.2 40.0 60.0 15.3 Secondary highway to Common 3.0 20.0 30.0 9.0 6.0 Common to Mid Permit Subtotal = 43 33 Cable prorated delay (based on 75 min. delay time) Loaded Empty Non-cable prorated delay (based on 60 min. delay time) Load Handling Delay (minutes) 60 Loaded plus Empty (minutes) 76 **Total Cycle Time (minutes)** 136 2.3 hours Water Transportation (Sec.4 pp 41) (CHECK ONE): Slocan(SLLK) Arrow(ARLK) Kinbasket(KILK) Koot.(KOLK) Revelstoke(RELK) Lake Tow Distance (nearest 1 Km) Dump and Boom Yes (CHECK IF YES) Dewater/Reload Yes Road Maintenance X Yes (sec.4 pp.43-46) Road Use Charge (explain) \$ Cost/M3 (Sec. 4 pp 47) Barge/Ferry Used for Truck Haul BUK Kinbasket (Reservoir Lake) (Sec.4 pp42) If Yes, check applicable one: BUR 1880 Res. (Reservoir Lake) All Others (Natural Lakes) BUA Barge/Ferry Used for Crew Transportation If yes check **BFA** Kinbasket (Sec.4 pp42) Specified Transp. Systems (Sec 4 pp3) Kinbasket Lake Barge/Ferry not used for truck haul (private). \$Cost/M3

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ADMINISTRATION AND OTHER COSTS (Sec. 4 p. 48)

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Isolated cutting authority - Kinbasket Lake only (Sec. 4 p. 49), (Code 3) - Yes or No

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ROAD AND DRAIL	NAGE	STRUCTU	IRES (N	ew, I	Reconstructi	ion & Upg	rade)		
1 Culverts (Tabul	ated) (	Sec. 4 pp	. 18-19)		Applicable \	/olume*	-		(m³)
Circular Pipe	Circu	lar Pipe		Nun	nber				
Diameter		ngth			uired				
1.0 m									
1.2 m	·				, , , , , , , , , , , , , , , , , , ,				
1.4 m									
1.6 m									
1.8 m									
Bridges  (Previously tabular) (S	ec. 4 p. 2	20)	(Engineer	red)(	Applicable Sec. 4 p. 23-27)			1 MANY	(m³)
Bridge	Bridge	Average	Span	E	ngineered	Cost	Trend	1999	R.O. ENG.
Identifier	Type**	Crib	Length		Cost (\$)	Estimate	Factor	Cost	Approval
		Height (m)	(m)	-	Estimate	Base Year		Estimate	
				Г					
				<u> </u>					
	<u> </u>			<u> </u>		<u> </u>			<u> </u>
<ul> <li>* Applicable Volume: Complete only when different from Cutting Authority Volume.</li> <li>** Bridge Types: S = Steel, L = Log, C = Concrete, G = Gluelam, P = Portable.         Attach supporting information for bridges. Confirm if portable bridge (Sec 4 pp.26) is a new purchase or has been previously used elsewhere.</li> </ul>									
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#### Interior Appraisal Data Sheet

	Biogeoclimatic 2	Zone:	IDF				
	Road Group Nu	mber - 10 or	11 - per Table	4-3 (Sec.4 p)	17)	10	
	<b>Group10</b> Boundary Cranbrook			Applicable Vol	ume*		
	Invermere Group 11			*Complete onl	y when different	from Cutting A	authority Volume.
	Arrow Columbia Kootenay Lake				SUBGRADE		ADDITIONAL STABILIZING MATERIAL
I	Road	Road	Section	Soil	Side	Rock	Stabilizing
	Section Number	Type <sup>1</sup> O,B,W (Sec.4 pp13)	Length >.1 Km (Sec.4 pp13)	Moisture <sup>2</sup> Blank or W (Sec.4 pp15)	Slope % Rd. Gr. 10&11 (Sec.4 pp14)	(%) Rd. Group 11 (Sec.4 pp14)	Length >.1Km (Sec.4 pp20-22
t	Seg 1 Seg 1			(000.4 pp 10)			(CCC.1 pp20 22
	0+000-0+763	В	0.8		18	6	
l							
Ì							
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						-Ministeria	
ļ		200000000000000000000000000000000000000			-L-MWIII		
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-							
1			7.111113.77.79.17.1				
							1
	B	L		12-			
	Biogeo. Zone Lo Keep Biogeoclim Draw a line acro Road Type: Ope	natic zones sep oss this page w	erate. ith Biogeo. Zor			pages if necess	sary.
2	Soil Moisture Re One way		200	54 30 (505)			

4. Other Structures (Sec. 4 p. 22)

CP

Туре	Number
Fencing(100's of meters)	***************************************
Cattle Guards	
Pipeline Crossings	

Applicable Volume*:	(Sec. 4 pp.12) (SBFE www.different from Cutti	M <sup>3</sup>		L-Africant Anni Anni Anni
			olume.	0.000
MARKET THEFT	Original Cost E	stimate	Trend	1999 Cost
** Identifier	Estimate \$	Year	Factor	Estimate \$
Engineered Development (		M <sup>3</sup>	#1208	50 11.5.
*Complete only when di	ifferent from Cutting Author	ority Volume	#1643E	K.11, 2
	Original Cost E	stimate	Trend	1998 Cost
** Identifier	Estimate \$	Year	Factor	Estimate
Road Construction Sec 2	\$1,541.00	1999		*\$1,541.0Q
Deactivation Sec 1	\$3,306.00	1999		\$3,306.00
Replacement of road running				
Surface 6 km	\$4,220.00	1999		\$4,220.00
R.O. Engineering  ** Signature :	TOA		_	
" (1816년) 경영경영경 (1일 등 1848년 1841년 (1817년 - 1841년 - 1	69/11	27	<u>.</u> -	
** Signature :		7 1000	rity Volume.	
** Signature : Approval Date:	nly when different from C that the moneys were ex- ruction, new road, replace	Cutting Autho pended for. 'I ce bridge, end	ndicate what	
** Signature :  Approval Date:  Applicable Volume: Complete or  Please ensure that it is evident w is being done: upgrade, reconst	when different from C what the moneys were ex ruction, new road, replace al Manual sec. 4.pp.21-26	Cutting Autho pended for. 'I ce bridge, end	ndicate what	

# BASIC SILVICULTURE (Sec. 4 pp. 52-54)

	Total Area	Non-commercial	R			
Treatment	for	Brush Areas Less	Factor		404.4	
Regime	Silviculture		(Sec. 4 pp. 54)	Total Merchantable Ar	rea* = 164.1	_ h
	(ha)	(Sec. 4 pp. 54)				
A				Plus Additio	ns* =	h
				Minus Deletio	ns* =	h
В						_
				Subtotal (Area of cut bloc	cks) =	ha
W						
D	164.1	0.0	0.18	Minus Area roads & landi	ngs =	h
						_
				Minus Area of Imm/	NP =	ha
Ē				Willias / Coa of Willia		—'''
				**Plus Area of NCBr <4	lha =	h
				Plus Alea of NCBI 44	na –	ha
G				Total Area For Silvice		
				Cost Estimate =	164.1	_ h
Н						
No Treatment	0.0	70000				
Total Area	164.1	Second Second	· · · · · · · · · · · · · · · · · · ·			
			-1			
Root Dis	ease Co	ontrol	(Specified Operat	tion Sec.4 pp.2-3)		
1001 010	caoc o	Jiid Oi	(Opecined Operat	1011 Sec.4 pp.2-3)		
ncludes Lodge	enole nine ste	ems from 12.5 cm dbl	and deciduous ar	nd other conifers from 17.5 cm db	ıh.	
olddoo Lodge	polo pino oti	one nom rele om de	, arra acoraciona	ia dala, dalinata ilani 1110 dili da		
nclude copies	of the total s	tem stand tables (# c	of stems by diameter	er class) for the area of		
oot disease co	ontrol. For ro	ot disease control, do	not use the factor	ed (reduced) stand tables.		
lote the numb	er of hectare	s requiring root disea	ase control on the s	stand table for each area.		
ushover L	ogging or	Destumping	ł	na Volume =	m3	
(and "popu				-		
(dila popu	P /					
Cost E	stimate =		(Region will cald	culate the cost estimate.)		
			-			
From Page 1	of this NE 10	4				
			size must not be in	cluded in the appraisal. (Sec.4 p	p. 54)	
arr.addi di c		g. Jacon Wilder of No. 111 C		п. т.е арргающі (990.1 р	/	
CP 156						
			Page 7		8/27/02	2

# Small Business Enterprise Program Levies (Sec.6 pp.8)

Include Levy for Basic Silviculture?	(YES or NO )	Sawlogs	Grade 3	Grade 4,5,6	
Include Levy for Development?	(YES or NO)				•
Explain Levy	Personal de la companya de la compan			-	
Competitive Special For	est Product	s			
Species Produc					
Species Produc					
Species Produc	-	-			
REPORT - PRINTING Address - Recipi	ent of 10-day	letter			
		dress, Postal	Code		
Tembec Industries In	nc.		_		
P.O. Box 4600			_		
Cranbrook, B.C. V	1C 4J7		_		
Attention: Troy H	romadnik		_		
Woodlot Annual Rate Select	tion - Select o	ne			
Annual Adjusting	The state of the s	1	te until next annual	re-apppraisal)	
Quarterly-Adjusting		(Rate changes e	very January, April,	July and October)	
Licensee Signature:			Date	: Aug	29/02
(Print name)	Sarry 7	Senson			
DATA SHEET REVIEWED B	Y R.A. TIMBER	Y			r
Ministry Signature:	1/2		Date	: Dee 01	1/02
LAST MOF FIELD REVIEW	BY:	1	$\supset$		
Ministry Signature:	2/1		Date	: Deco.	1/02
APPROVED BY MINISTRY D	ESIGNATE	00		82	9
Ministry Signature:	1 Kjela	flye	Date	: Dec ô	3/02
(Print name)	Jas	Jane of			1
CP 156		Page 8			8/27/02

ENGINEER	ED CONSTRUC	TION COST EST	IMATES	1	Page of	1
LICENCE	FL A18978	C.P.	156	Date:	9-Oct-01	
Name and/	or Location:	Lower Lussier S	South			
Description Effective Da	ı: ate of Engineere		of Sec. 2 Seg. 1 1-Nov-01			
		TYPE	FUNCTION (Per Appraisal Manual)	HOURS	RATE/ HOUR (JULY 1/98)	TOTAL
1) Comp. bid	costs					
2) Machine		Cat D8	Reconstruct		s. 1	\$1,330.00
Cost	t:	Grader 14G	Reconstruct		17, s.21	\$211.00
2) Labour				+	<del></del>	
3) Labour						1
Cost	•					
4) Materials						
Cost	t.					
5) Freight + I	haulage for materials only					
Cost	<b>:</b> :					
6) Engineeri	ng - if applicable					
					1000)	84.544.88
1. 2. 4. 6.	Refer to Appendix List each machine Freight and haula No GST to be inc Cost of designed	e employed and wor ge allowed for perm luded, PST is allowed and engineering for or more for other me	anent type bridges (i.e., ste	el, concrete	nd material rates. or glu-lam). , inspection	\$1,541.00
Resource 0	Officer Engineer	ing:	Signature		Date: _	
			Signature			

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ENGINEER	ED CONSTRUC	TION COST	ESTIMATES	1	Page of	1
LICENCE	FL A18978	C.P.	156	Date:	9-Oct-01	
Name and/	or Location:	Lower Luss	ier - South			
Description	n:	Road Deac	tivation for Sec 1			
	ate of Engineer			1,2001		
		TYPE	FUNCTION (Per Appraisal Manual)	HOURS	RATE/ HOUR (JULY 1/98)	TOTAL
1) Comp. bid	costs					
2) Machine Cos	t:	Cat D8	Deactivation		s.17, s.21	\$2,660.00
3) Labour Cos	t:					
4) Materials Cos	t:					MARK
5) Freight + I	materials only	Lowbed	MOB & DeMOB		s.17, s.21	\$646.00
Cos	t:					
6) Engineeri	ng - if applicable					
TOTAL COST	FSTIMATE	-		(JULY 1,	1998)	\$3,306.00
1. 2. 4. 6.	Refer to Appendi List each machin Freight and haula No GST to be ind Cost of designed	e employed and age allowed for politiced, PST is a and engineering for more for other	or Appraisal Manual for equit work performed.  Dermanent type bridges (i.e. allowed on materials.  To for log bridges not allowed on more complex structures.	ipment, labour a ., steel, concrete d. Cost of design	nd material rates. e, or glu-lam). n, inspection	7-15-5100
Resource (	Officer Enginee	ring:			Date:	
			Signature	*****	•	
CP 156						10

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ENGINEERED CONSTRU	_rION C	OST ESTIMATES	1	Page of -	1
LICENCE FL A18978	C.P.	156	Date:	9-Oct-01	
Name and/or Location:	Lower L	ussier - South		HOUSE STREET	SEC. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
Description: Effective Date of Enginee		ment of Road runn nate: Novemb		e - 6 km	
	TYPE	FUNCTION (Per Appraisal Manu		RATE/ HOUR (JULY 1/98)	TOTAL
1) Comp. bid costs					
2) Machine Cost:	Grader	road running surface		s.17, s.21	\$4,220.00
3) Labour Cost:					
4) Materials  Cost:					
5) Freight + haulage for materials only  Cost:				3 - 103	
6) Engineering - if applicable					
TOTAL COST ESTIMATE			(JULY 1,	1998)	\$4,220.00
List each machine en     Freight and haulage a     No GST to be include     Cost of designed and	nployed and allowed for ed, PST is a l engineerin nore for oth	permanent type bridge	s (i.e., stee	t of design, ins	glu-lam). pection
Resource Officer Engine	ering:		200 <u>2</u> 24 (Willed)	Date:	
CP 156			28		P. 11

# INVERMERE DISTRICT CUTTING PERMIT / FINAL SUBMISSION ROUTE TAG

	Target Date Nov.		Disk included Y	Blks
	Area Lower Jus			
**	RESOURCE CLERE	C 02 days attach ro	ute tag	
	RESOURCE CLERT	C 02 days-attach 10	√-update ledger	
		¥	-change FTAS from SP to P	P update PC LIST
			attach CP smoothsheet -Updates events	a 101/10/18
			34	
	FOS	04 days	-confirm FDP are approved -check for completeness:	
			covering letter, appraisal, c	ruise compilation,
	1727		cruise, map, SP, logging pl	an
*			-meet with RA -assign target completion da	te
			(bench mark 60 days)	
			<ul> <li>-Verify Road Permit require</li> <li>-Non-road permit const. appr</li> </ul>	
			-Access (Road Use) cleared	Carrier of
1/2 0 1 1			-Update events	NW 101/10/25
# Note	DRAFTING In house pre-status	02 days Rec	Oct 35/01 -submit clearance	
Gan Hh +	Yield #2145	on Edge	-draw Exhibit 'A' -make 3 co	pies for file
of Blog		9	-update FTAS	aw 01/11/01
04 10100	of the or		-Update events	
	RA Tech	21 days	-review appraisal, attach field	
			-complete smoothsheet and d	raft clauses
			-Update events	
	RO TIMBER	02 days	-review and sign-appraisal -Update events	/
	DESCRIPTION OF STREET	02.1	D 3	
	RESOURCE CLERK	02 days-prepare C	-change FTAS status PP to P	
4	*		-forward appraisal with pages	
			-Update events	My Dec 31
	FOS	02 days	-review CP document	
			-ensure SP's are signed	
			-check for concerns for cover -Update events	letter 51 01/12/0x
	RESOURCE CLERK		FOS for concerns for cover let -do cover letter	iter
			-make two copies of documen	gm, Dec7/01
			-forward to DM for signature.	an Dec 1101
			-Update events	<del></del>
	DM	02 days	-review and sign CP documen	t
	RESOURCE CLERK	02 days-mail origin	al to Licensee	
(¥		L	2nd copy to file	L'A A A DOWN
		V	copy of cover letter and Exhi update FTAS ( HI ), PC list a	
	X.	t	forward to RA Tech	ACCUSATION OF THE STATE OF THE
		ν	-Update events	AS // JIHN 30/02
2	RA Tech · ·	02 days		
	(pre-award)	0.2 days	-enter block information in FT	AS Oh _
			-inspection set-ups	FM 1 JIAN 30/02
3			_ <del></del>	

FILE



## TEMBEC INDUSTRIES INC.



#### SILVICULTURE PRESCRIPTION

Canal Flats Area

A Prescription prepared in accordance with the requirements under Section 22 of the Forest Practices Code of British Columbia Act

Procedures required by the Operational Planning Regulation have been followed for any assessment that is required under section 37 or that is required to provide information referred to under section 39(3)(a). This Silviculture Prescription is consistent with the results or recommendations of any assessment required under section 37 of the Operational Planning Regulation.

The proposed silviculture prescription complies with section 7(4), 8(3) and 8(4) of the Timber Harvesting Practices Regulation with respect to prohibition against constructing excavated or bladed trails.

#### A. TENURE

LICENCE NUMBER:	CUTTING PERMIT:	BLOCK NUMBER:	LOCATION:		TIMBER MARK:
FL A18978	156	006		ier South (Ram t Service Road)	EY6-156
LICENSEE:		MAPSHEET / OPENING NO:	REGION:	DISTRICT:	TIMBER SUPPLY AREA:
Tembec Indus	tries Inc.	82G.J002/90	Nelson	Invermere	Invermere

AREA SUMMARY (Hectares)

STANDARDS UNIT	TOTAL AREA	NON PRODUCTIVE ROADS & LANDINGS	NON PRODUCTIVE NATURAL	RESERVES	OTHER	NET AREA TO REFOREST
1	203.1	7.9		16.8	8.7	169.7
TOTAL	203.1	7.9		16.8	8.7	169.7

#### COMMENTS:

The 'Reserve Other' refers to 8.0ha of Riparian Buffers established adjacent to S6 streams to ensure that harvesting does not increase sedimentation in the Lussier River and 0.7ha of mature timber that will provide stand structure. The reserves were recommendations from a Hydrologic Implication Report and field reviews.

# B. LONG TERM MANAGEMENT OBJECTIVES:

(as set out in the FDP or as required to remain consistent with the Operational Planning Regulations)

- To manage for a mixed stand consisting primarily of Douglas fir and Western Larch while not significantly increasing the 'Equivalent Clearcut Area' of the Lussier River drainage.
- Future re-entries are subject to hydrological recovery of the Lussier River watershed.
- ♦ Harvesting will partially offset future mortality losses associated with Armillaria Root Disease and Douglas-fir Bark Beetle.

SILVICULTURE PRESCRIPTION

CP 156 BLOCK 006

Print Date: 11/20/01

# C. MANAGEMENT MEASURES

## COARSE WOODY DEBRIS

## COARSE WOODY DEBRIS REQUIRED (CONSISTENT WITH OBJECTIVES IN THE FOREST DEVELOPMENT PLAN):

The establishment of three Wildlife Tree Patches, two 'reserve others', six riparian buffers and a 20% maximum basal area removal for the remaining area will ensure that appropriate CWD is present.

Close utilization standards apply; however, future blowdown or breakage of residual stems will provide coarse woody debris to the site.

# FOREST RESOURCES IDENTIFIED IN THE FOREST DEVELOPMENT PLAN REQUIRING CERTAIN SITE CONDITIONS AFTER HARVESTING OR SITE TREATMENT:

FOREST RESOURCE VALUE	SITE CONDITIONS TO EXIST AFTER HARVEST OR SITE TREATMENT
Domestic Water Supply Intakes	Unnamed stream 1, a licensed stream (C036984LSE7777) was substantially diverted for domestic purposes immediately below the Ram Creek Forest Service Road (outside the proposed block). Where this stream flows through the proposed block, a minimum 20m wide riparian buffer was established adjacent to both sides of the stream, where no harvesting will be undertaken.
	BC Government line-work obtained from Forest Development Plan maps shows the domestic watershed to be south of the actual stream in an area de-void of streams.
Wildlife Habitat Feature	An active Goshawk nest was identified in the block. The Goshawk nest is 14.1m from the ground in a healthy aspen tree that is 44cm in diameter and 23.1m in height. The nest tree and several perch sites are incorporated into WTP #3. The silviculture system for the remainder of the block is single tree selection with a maximum 20 % basal area removal. A seasonal harvesting restriction has been prescribed to avoid disrupting the goshawks during their breeding period (see Section F for further details).
	Based on the lack of available information regarding Goshawks, it is unknown whether this system will ensure future re-occupancy of this Goshawk breeding territory. This nest and WTP are part of a Tembec experimental research and monitoring trial studying goshawk nest re-occupancy rates following various harvesting prescriptions (adaptive management).

# KNOWN NON-TIMBER FOREST RESOURCES, ON OR ADJACENT, REQUIRING CERTAIN SITE CONDITIONS AFTER HARVESTING OR SITE TREATMENT:

NON - TIMBER FOREST RESOURCE VALUE	SITE CONDITIONS TO EXIST AFTER HARVEST OR SITE TREATMENT
Ungulate Winter Range	The Kootenay Boundary Higher Level Plan Order has classified this area as a Fire-Maintained Ecosystem. The area is specifically identified as NDT 4 Managed Forest on BCFS Sheep Creek North Ecosystem Restoration Plan maps.
	Three Wildlife Tree Patches, two 'reserve others', six Riparian Buffers and a 20% maximum basal area removal will result in little change to ungulate forage/browse capability and thermal cover, thus Ungulate Winter Range conditions will remain similar to current conditions.

# ARCHAEOLOGICAL SITES:

## ACTIONS, IF ANY, NECESSARY TO ADEQUATELY MANAGE AND CONSERVE ARCHAEOLOGICAL SITE:

An AIA was completed for this block and two areas containing archaeological resources were removed from the harvest area. The AIA does not apply any further constraints nor is any further archaeological work required.

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#### FOREST HEALTH

SIGNIFICANT FOREST HEALTH RISKS IDENTIFIED BY A PEST INCIDENCE SURVEY (IF REQUESTED BY DISTRICT MANAGER):

Minor amounts of Douglas Fir Bark Beetle (IBD) have been identified in the block in distinct centers. Approximately 1% of the stand is infested with IBD.

Moderate to high amounts of Armillaria Root Rot (DRA) has been identified throughout the block. Approximately 5% of the stand is infested with DRA.

PRESCRIBED MANAGEMENT MEASURES TO REDUCE SIGNIFICANT FOREST HEALTH RISKS IDENTIFIED BY SURVEY:

IBD: Douglas fir Beetle funnel traps were placed along the Ram Creek FSR on April 11, 2001. These traps will help monitor and control IBD. Harvesting will priorize infested Fd trees to minimize the spread of IBD.

DRA: Intensive treatment measures such as pushfalling/destumping will not be employed due to carbonates at 16-40cm depth, a high compaction hazard, hydrology concerns, and exposed parent material (bedrock) in some areas throughout the block. To minimize the spread of DRA Lw will be prioritized for retention and if spacing is required at a later date, handpulling will be the preferred method.

#### D. RIPARIAN ASSESSMENT / MANAGEMENT

NAME or DESCRIPTION	RIPARIAN CLASSIFICATION	RIPARIAN RESERVE ZONE WIDTH (M)	RIPARIAN MANAGEMENT ZONE WIDTH (M)	RIPARIAN MANAGEMENT ZONE RETENTION (sph or rba
Stream 1	S6	0	20	All - 500 sph
Stream 2	S6	0	20	All - 500 sph
Stream 3	S6	0	20	All - 500 sph
Stream 4	S6	0	20	All - 500 sph
Stream 5	S6	0	20	All - 500 sph
Stream 6	S6	0	20	480-500 sph

DESCRIPTION OF THE PURPOSE AND EXTENT OF ANY REMOVAL OR MODIFICATION OF TREES PLANNED FOR THE RRZ:

None.

#### IN ABSENCE OF RRZ, MEASURES FOR PROTECTING STREAM BANKS:

The RMZ's for Streams 1 through 5 are located in areas designated as Riparian Buffers, where no harvesting activities will be undertaken. A minimum of 20m (20m-50m range) has been reserved along both side of these streams. A 10m wide Riparian Buffer is established adjacent to both sides of the Stream 6 because the stream disappears underground and is not tributary to the Lussier River. As described in Section A, these areas are retained for hydrologic purposes (minimizing sedimentation in the Lussier River Drainage). These measures will also protect the stream banks.

In addition, minimum 15m wide "Machine Free Zones" have been established adjacent to both sides of all riparian buffers.

FALLING OR YARDING ACROSS STREAM (INCLUDE DEBRIS MANAGEMENT MEASURES WHEN PROPOSED):

Not applicable (all streams in buffers).

SHADE MAINTENANCE MEASURES FOR KNOWN TEMPERATURE SENSITIVE STREAMS:

N/A

#### COMMENTS:

Species composition varies throughout the riparian buffers and all stems will remain consisting of Fd, Lw, Ep, At, Sx and Pl. All stems (500 sph) will remain in the RMZ's of Streams 1 to 5.

All stems (600 sph) will remain in the inner 10m of the RMZ (Riparian Buffer) adjacent to Stream 6. 80% of the basal area (approx. 480 sph) will be retained in the remainder of the RMZ for stream 6. See Section G for further details.

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## E. SOIL CONSERVATION

HAZARD RATINGS (if the harvest method is other than cable or aerial) & SOIL DISTURBANCE

STANDARDS UNIT	SOIL COMPACTION AND PUDDLING HAZARD	SOIL DISPLACEMENT HAZARD	SURFACE SOIL EROSION HAZARD	MAXIMUM PROPORTION OF NET AREA TO BE REFORESTED THAT MAY BE OCCUPIED BY SOIL DISTURBANCE (%)
1	High	Moderate	High	_10

#### COMMENTS:

The soil compaction hazard ranged from Low to Very High. On average it is high. Only one soil pit out of twenty five contained clay. Clay was observed at 20cm depth in this pit, however the SU will be managed as a high compaction hazard.

The soil displacement hazard ranged from Low to High. On average it is Moderate.

The surface soil erosion hazard ranges from Low to High. On average it is High.

### PERMANENT ACCESS STRUCTURES

MAXIMUM PROPORTION OF TOTAL AREA TO BE OCCUPIED BY PERMANENT ACCESS STRUCTURES: 5

5 %

#### COMMENTS:

Although a maximum 20% basal area removal is planned for the area, all skidtrails will be managed as temporary access structures. Permanent skidtrails are not being used due to hydrological concerns and an unknown re-entry date that depends on hydrological recovery of the Lussier River Watershed.

#### TEMPORARY ACCESS STRUCTURES

#### COMMENTS

A temporary road and two temporary landings are proposed for the block. The temporary road is to be rehabilitated as per Section 14 of the Timber Harvesting Practices Regulation (THPR) and the temporary landings are to be rehabilitated as per Section 17 of the THPR.

Exposed Parent Material (bedrock) is scattered throughout the proposed block.

STANDARDS UNIT	MAXIMUM EXTENT TO WHICH THE MAXIMUM SOIL DISTURBANCE MAY BE TEMPORARILY EXCEEDED TO CONSTRUCT TEMPORARY ACCESS STRUCTURES (%)	MAXIMUM TIME TO COMPLETE REHABILITATION OF TEMPORARY ACCESS STRUCTURES AFTER THE COMPLETION OF HARVESTING (years)	TYPE / DEPTH TO UNFAVOURABLE SUBSOIL (cm)
1	3	2	16-40cm (carbonates) 45-60cm (parent material) 52+ cm (water and root restricting – rock)

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# EXCAVATED OR BLADED TRAILS

PORTIONS OF CUTBLOCK WHERE EXCAVATED OR BLADED TRAILS MAY BE CONSTRUCTED:	MAXIMUM HEIGHT OF CUTBANK OF EXCAVATED OR BLADED TRAILS (M)	AVERAGE HEIGHT OF CUTBANK OF EXCAVATED OR BLADED TRAILS (M)	ANY EQUIPMENT OTHER THAN EXCAVATOR PLANNED FOR CONSTRUCTION OF EXCAVATED OR BLADED TRAILS
Throughout the block, excluding 'Machine Free Zones', Reserves (WTP's, Reserve others and Riparian Buffers), and on slopes >40%.	1	0.5	Bulldozer

#### COMMENTS:

Temporary access structures may not be constructed on sideslopes exceeding 40% .

A bulldozer may be used for trail construction where appropriate (i.e. lesser slopes).

On small areas the maximum height of cutbank of excavated or bladed trails may be exceeded where required to better utilize terrain features and reduce total soil disturbance.

# F. CRITICAL SITE CONDITIONS FOR OPERATIONS AFFECTING TIMING

STANDARDS UNIT	CRITICAL SITE CONDITION	OPERATIONAL CONSTRAINT
1.	Northern Goshawk	Harvesting activities south of Stream 5 are prohibited during the breeding period from March 15 to September 1.
1	High Compaction	Due to the high compaction hazard, harvesting activities will only be undertaken on designated trails or when soil conditions are suitable (i.e.: dry, frozen, or snow cover of adequate depth).

Danger trees, damaged trees, and tail holds | tiebacks (where applicable) outside the block boundary may be felled, yarded and utilized. These small areas located outside the block boundary are exempted from the requirements of a forest development plan and silviculture prescription under the authority provided in sections 28(1)(a), 30(1)(b) and 30(1)(c) of the Forest Practices Code of British Columbia Act. The District Manager's approval of this silviculture prescription constitutes approval of this exemption.

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#### G. SILVICULTURE SYSTEM

#### STANDARDS UNIT:

SILVICULTURAL SYSTEM:

Single Tree Selection

#### STAND STRUCTURE & COMPOSITION GOALS:

The present stand is comprised primarily of Fd and Lw. Species composition, density, age, and size vary throughout the block. Areas exist containing primarily Lw, however the majority of the stand consists of Fd. Minor components of Pl, Py, Ep, At and Sx can also be found scattered throughout the block.

Densities for this multi-layered stand vary from 100-1000 sph, with an average of 500sph. Basal area varies from 10-50 m<sup>2</sup>/ha with an average of 27.3 m<sup>2</sup>/ha for all diameter classes. Average basal areas for the following diameter classes are as follows: DBH 20-40cm = 19.4 m<sup>2</sup>/ha; DBH 40-60cm = 7.4 m<sup>2</sup>/ha; DBH 60cm+ = 0.5 m<sup>2</sup>/ha. The short-term goal is to remove an average of 5.5 m<sup>2</sup>/ha (20% of the stands basal area), while maintaining a multi-layered, uneven-aged stand.

All stems >45cm DBH and all Py, Ep, At & Sx will be reserved, except where they must be removed to facilitate skidtrail construction or if infested with Armillaria Root Rot/Douglas fir Bark Beetle. When identifying trees to be cut, preference will be given first to Fd showing signs of Douglas fir bark beetle/Armillaria root rot, second to Pl, third to healthy Fd, and lastly to Lw. Small openings, 2 tree lengths in size maximum, may be created to remove patches of Fd affected by Douglas fir bark beetle/Armillaria root rot and to remove Pl patches, however the objective is a single tree removal.

Included in the 5.5 m²/ha (20% removal) are areas removed for skidtrail construction (approx. 5%), patches of Pl (approx. 1%), and patches of Fd affected by pests and disease (approx. 6%). The remaining 8% (approx. 2.2 m²/ha) will taken from the healthy Fd and Lw throughout the stand, with preference give to Fd. Remaining basal area will vary from 4.5 - 44.5 m²/ha, with an average of 21.8 m²/ha. SPECIES AND FUNCTION OF TREES TO BE LEFT STANDING:

#### HARVEST AREA:

OVERSTORY: The prescription is to reserve 80% of the basal area.

- Sx, Py, Ep and At: Reserve all Sx, Py, Ep and At, except those that must be removed to facilitate skidtrail construction.
- Pl: Remove all merchantable Pl >15cm dbh.
- Fd: Reserve all Fd >45cm dbh, except those removed for skidtrails and DRA/IBD infestations. Other than skidtrails and IBD/DRA infestations, a relatively uniform removal is to occur over the remainder of the block. Fd is a priority for removal over Lw.
- Lw: Reserve all Lw>45 cm dbh, except those removed for skidtrails. Lw may be removed only when no other species are present for harvesting. As described above Fd is a priority for removal over Lw.

The maximum opening size that may be created is 2 treelengths where required to address forest health issues and to remove Pl.

The average post harvest basal area by diameter class will be: 20-40cm = 15.96m2/ha; 40-60cm = 5.38m2/ha; 60+cm = 0.45m2/ha

#### UNDERSTORY:

All non-merchantable stems will be reserved from harvest. These stems consist primarily of Fd, with minor components of Lw and Sx. The understory is distributed very unevenly throughout the block, with openings containing 2000+ sph, and other areas under greater crown closure having less than 100 sph. Up to 15% of the understory may be removed to facilitate falling and skidding.

#### WILDLIFE TREE PATCHES

WTP #1 contains Stream 1 (domestic watershed, license # C036984LSE7777) and Stream 2. The WTP contains rocky inoperable ground on 35% slopes and mature Fd, Lw and patches of Ep. Also found in the WTP are dead and dying trees, Armillaria Root Rot, large pieces of CWD and uprooted trees, trees with cavities, veteran trees, game trails and a well developed shrub layer.

WTP #2 is adjacent to Stream 4 and contains rocky ground with scattered live and dead Fd. The fir are very branchy and of poor form. Also found in the WTP is Armillaria Root Rot.

WTP #3 contains an active (active in 2001) Goshawk nest and good quality mature Fd, Lw, Ep and Sx. Also found in the WTP are dead and dying trees, Armillaria Root Rot, trees with cavities, game trails, uprooted trees and bedrock outcrops. The Goshawk nest was observed to be active and produce young in Spring/Summer of 1999 and 2001.

#### RESERVE OTHER

Two areas were removed from the harvest area and placed in reserves that will provide stand structure. These areas contain predominantly Fd.

COMMENTS: All leave trees must comply with WCB safety regulations.

Overstory and understory stems are being retained to create/maintain a multi-layered/uneven-aged stand.

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CP 156 BLOCK 006

Print Date: 01/12/05

# H. STOCKING STANDARDS

STANDARDS UNIT:	BIOGEOCLIMATIC ZONE	SUBZONE	VARIANT	SITE SERIES
1	IDF	dm	2	01 (04)

REGEN DELAY (YEARS): 7	SPI	FERRED ECIES: w, Pl, Py	ACCEPTABLE SPECIES:		
PREFERRED WELL SPACED STEMS / HA	WELL	& ACCEPTABLE SPACED MS/HA	MINIMUM HORIZONTAL DISTANCE FOR WELL SPACED TREES	MINIMUM PRUNING FREE GROWING I BLISTER RUST OR V OBJECT	FOR WHITE PINE VILDLIFE HABITAT
MINIMUM:	TARGET:	MINIMUM:	(METERS):	(MET	ERS)
Layer 1 - 200	400	200		N/	'A
Layer 2 - 250	600	300	2.0		
Layer 3 - 300	800	400	2.0	#	
Layer 4 - 400	1000	500	2.0		
POST SPACING DENSITY (TOTAL COUNTABLE CONIFERS/HA) at free growing	ASSESSM	GROWING ENT PERIOD EARS)	FREE GROWING MINIMUM TREE HEIGHT (METERS):	FREE GROWING TREE HEIGHT RELATIVE TO COMPETITION	MAXIMUM COUNTABLE CONIFERS at free growing
MIN: MAX:	EARLY:	LATE:		(%):	(ST/HA):
500 1600	12	15	Pl, Lw 1.0	125	10 000
			Fd 0.8		Layer 3 only
			Others 0.6		-

#### ADVANCED REGENERATION ACCEPTABILITY CRITERIA AT FREE GROWING:

The criteria as outlined in the Invermere Forest District Advanced Regeneration Free Growing Acceptability Standards (enacted on August 1, 1997) will be used in determining advanced regeneration acceptability.

#### RATIONALE FOR VARIATIONS TO PROVINCIAL SILVICULTURE STOCKING STANDARDS GUIDELINES:

The maximum spacing density has been increased by 600 sph to account for stem mortality caused from snow press, insects and disease.

## COMMENTS:

Minimum inter-tree spacing will be 1m for up to one tree per 3.99m survey plot. The reduced inter-tree spacing is required to allow planters to use the best microsites while considering planted and natural stems if artificial reforestation is employed.

If stocking levels drop below minimum numbers at the expiry of the free growing date and it can be determined that Armillaria ostoyae is the cause of mortality, in spite of the prescribed DRA management strategy, and all other free growing requirements have been met, then the stocking standards may be amended to actual stocking levels, at the discretion of the District Manager.

Livestock grazing is not proposed to be carried out as a vegetation management treatment on the area under this prescription.

SILVICULTURE PRESCRIPTION

CP 156 BLOCK 006

Print Date: 11/20/01

# I. ADMINISTRATION

Licensee acknowledgement of the requirements under Section 70 (4) of the Forest Practices Code of British Columbia Act.  TEMBEC INDUSTRIES INC.  Nov 22/67 Date	"I certify that the work described herein fulfills standards acceptable to a Registered Professional Forester and that I did personally supervise the work."  Dauglas R. Braytmook, R.P.F.  Nov. 20/01  Date
Map Attached: YES	4AFS Ltd. – Dan Foraie/ Tembec - Doug Braybrook Person completing this prescription

B.C. Ministry of Forests Appr	oval
Acterismon De	19/01
S. A. Pereverzoff, District Manager	Date

Master SP Form Revised: June 5, 1998

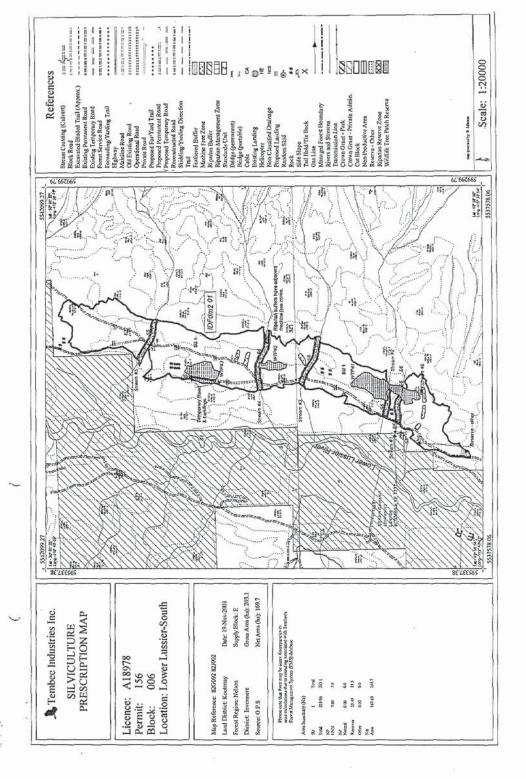
Species abbreviations:

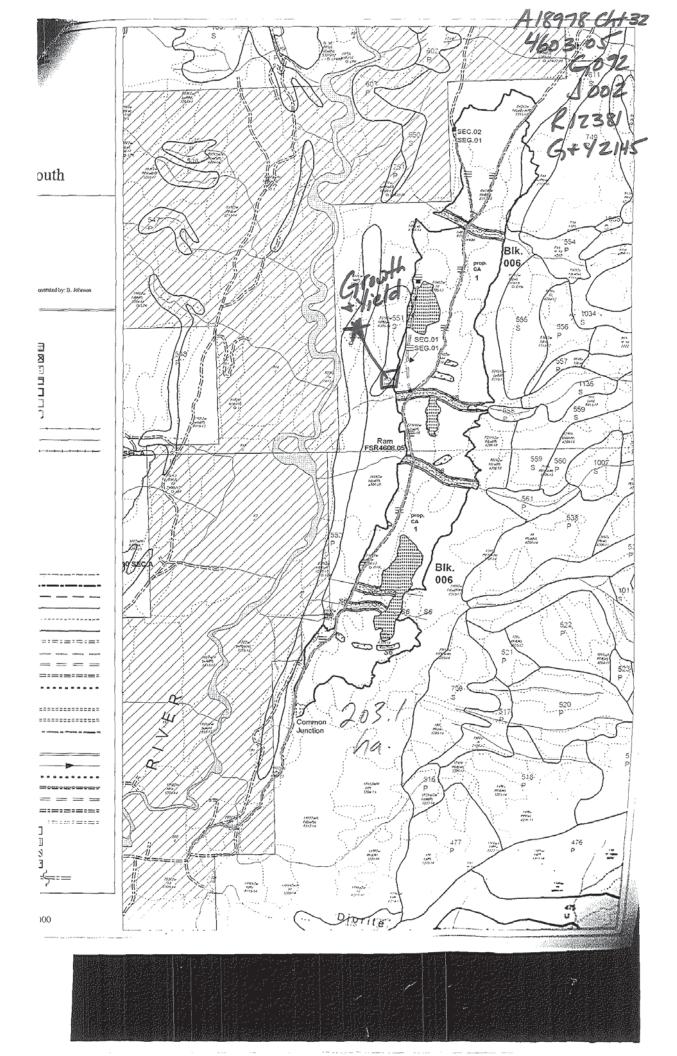
Pl - interior lodgepole pine; Fd- interior Douglas-fir; Py - yellow pine; Lw - western larch; Sx - hybrid spruce; Se - engelmann spruce; At - trembling aspen; Ep - paper birch; Bl - subalpine fir (balsam).

SILVICULTURE PRESCRIPTION

156 606 CP 1885 BLOCK 2006

Print Date: 11/20/01







Distribution: LICENSEE, FILE, Document name: G:\WorkGrp\RESOURCE\HARVESTI\CP\CP Cover Tembec CF.doc ID
CONTACT: Iris Dube, A/Administrator Services Supervisor, Invermere Forest District, 250-342-4213
Date typed:98/02/02 Date revised:

File: 19500-45/A18978 CP 156

December 10, 2001

Tembec Industries Inc. Box 4600 Cranbrook, B.C. V1C 4J6

Dear Sirs:

Re: Forest Licence A18978 CP 156:

Enclosed is your copy of Forest Licence A18978 CP 156 signed by the District Manager.

For Cut Control purposes, this Cutting Permit has been designated as endemic.

This permit is subject to the Forest Practices Code of British Columbia Act. Be prepared to comply with all conditions set forth in this permit and the Licence document before proceeding.

Yours truly,

Iris Dubé

A/Admin/Resource Services Supervisor

Enclosure: Cutting Permit 156

Ministry of Forests

Invermere Forest District

625 4th Street, Invermere

Mailing Address: PO Box 189 Stn Prov Govt Invermere, BC V0A 1K0

(250) 342-4200 (250) 342-4247



# FOREST LICENCE NO. A18978 CUTTING PERMIT NO. 156



PURSUANT TO paragraph [7.05] of Forest Licence No. A18978 (the "Licence"), this Cutting Permit is issued to:

Tembec Industries Inc. Box 4600 Cranbrook, B.C. V1C 4J7

(the "Licensee")

## 1.00 PERMIT AREA AND TERM

- 1.01 Subject to the Licence and the Acts, regulations and standards referred to in paragraph [8.01] of the Licence, the Licensee is authorized to harvest timber from the areas of Crown land designated for harvest on the map attached as Exhibit "A" to this Cutting Permit.
- 1.02 Subject to paragraph 1.03, the term of this Cutting Permit is three years, beginning on November 1, 2001, and ending on October 31, 2004.
- 1.03 As provided in paragraph [7.13] of the Licence, the District Manager, in a notice given to the Licensee, may
  - (a) extend the term of a cutting permit, and
  - (b) if he or she does so, amend this Cutting Permit to the extent necessary to ensure it is consistent with the forest development plan in effect at the time this Cutting Permit is extended.

# 2.00 SPECIAL CONDITIONS AND REQUIREMENTS

2.01 The Licensee must comply with the conditions and requirements set out in Schedule "A" to this Cutting Permit.

# 3.00 FELLING, BUCKING AND UTILIZATION SPECIFICATIONS

- 3.01 Subject to paragraph 3.04, the Licensee must
  - (a) fell standing timber of the species specified in Schedule "B" to this Cutting Permit, in accordance with the felling specifications set out in that Schedule,
  - (b) buck felled and dead-and-down timber of the species referred to in subparagraph (a) in accordance with the bucking specifications set out in Schedule "B" to this Cutting Permit, and

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- (c) utilize all timber of the species and grades specified as obligatory utilization in Schedule "B" to this Cutting Permit if the timber meets the utilization specifications set out in that Schedule.
- 3.02 Schedule "B" to this Cutting Permit may include a requirement that the Licensee fell other timber in addition to the timber referred to in subparagraph 3.01(a), in which case, subject to paragraph 3.04, the Licensee must fell but need not utilize such timber.
- 3.03 Subject to paragraph 3.04, the Licensee may utilize
  - (a) timber of the species and grades specified as optional utilization in Schedule "B" to this Cutting Permit, and
  - (b) timber referred to in paragraph 3.02.
- 3.04 The Licensee must not fell standing timber, or must not buck or utilize felled or dead-and-down timber, as the case may be, if
  - (a) the timber is specified as reserved timber in Schedule "B" to this Cutting Permit, or
  - (b) under an operational plan or the Acts, regulations or standards referred to in paragraph [8.01] of the Licence, the Licensee is required not to fell the timber, or not to buck or utilize the timber, for any reason, including silviculture, biodiversity or other forest management reasons.

#### 4.00 TIMBER MARK

4.01 The timber mark for this Cutting Permit is:

E Y 6

1 5 6

4.02 If directed to do so by the District Manager, the Licensee must erect signs at all exits from the areas of Crown land referred to in paragraph 1.01, clearly showing the timber mark(s) referred to in paragraph 4.01.

## 5.00 SCALE-BASED STUMPAGE

- 5.01 For the purpose of determining the amount of stumpage payable in respect of timber harvested from the areas of Crown land referred to in paragraph 1.01, the volume or quantity of timber harvested will be determined using information provided in a scale of the timber.
- 5.02 The Licensee must ensure that
  - (a) all timber harvested from the areas of Crown land referred to in paragraph 1.01 is scaled, and

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(b) the scale of the timber is conducted properly in accordance with the requirements of the Forest Act and the regulations made under that Act.

#### 6.00 ROADS

- 6.01 Subject to the Licence and the Acts, regulations and standards referred to in paragraph [8.01] of the Licence, the Licensee may construct or modify roads under the authority of this Cutting Permit on areas of Crown land referred to in paragraph 1.01 if the roads are
  - (a) wholly contained within a cutblock identified on a forest development plan, and
  - (b) not identified on a forest development plan as providing access to more than one cutblock.

#### 7.00 MISCELLANEOUS

- 7.01 The Exhibit and the Schedules to this Cutting Permit are deemed to be part of this Cutting Permit.
- 7.02 As provided in paragraph [7.14] of the Licence, this Cutting Permit is deemed to be part of the Licence.
- 7.03 The Licence will govern the interpretation of this Cutting Permit.

DATED DECUTION

S.A. Pereverzoff, District Manager Invermere Forest District

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## SCHEDULE "A"

# SPECIAL CONDITIONS AND REQUIREMENTS

## 1.00 Orderly and Sanitary Condition

The Licensee shall, concurrently with harvesting operations, leave all areas in an orderly and sanitary condition.

#### 2.00 Removal on Termination

The Licensee shall remove all logging equipment on an area of land referred to in paragraph 1.01 of the CP and shall leave all areas in an orderly and sanitary condition upon the earlier of completion of operations or expiry of the CP.

## 3.00 Discharge of substance

In the event that the Licensee causes or permits the discharge into the land or water of a substance that is, or may be, injurious to health, the Licensee shall promptly notify the Medical Health Officer of the location, time, duration, nature and quantity of the discharge of the substance and shall take immediate action to prevent and cease the discharge.

## 4.00 Special Forest Products

Subject to designated Forest Official approval, special forest products may be cut at the Licensee's option.

#### 5.00 Cut Control

For cut control purposes, this Cutting Permit is designated as endemic.

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# SCHEDULE "B" - INTERIOR

# FELLING, BUCKING AND UTILIZATION SPECIFICATIONS

# 1.00 FELLING SPECIFICATIONS

- 1.01 Subject to paragraph 1.02, standing timber of the species shown on the table attached to this Schedule must be felled in accordance with the following specifications:
  - (a) all timber meeting the minimum diameter at stump height shown for that species in the table attached to this Schedule must be felled; and
  - (b) unless otherwise authorized in writing by the District Manager, timber must be felled to a stump height that does not exceed the maximum stump height shown for that species in the table attached to this Schedule.
- 1.02 The Licensee must not fell standing timber if
  - (a) the timber is specified in Part 6.00 as reserved timber, or
  - (b) under an operational plan or the Acts, regulations or standards referred to in paragraph [8.01] of the Licence, the Licensee is required not to fell the timber for any reason, including silviculture, biodiversity or other forest management reasons.

#### 2.00 BUCKING SPECIFICATIONS

- 2.01 Subject to paragraph 2.02, felled and dead-and-down timber of the species referred to in paragraph 1.01 must be bucked so as to maximize the volume of logs and slabs which
  - (a) meet the utilization specifications referred to in paragraph 3.01, and
  - (b) are of the species and grades specified as obligatory utilization under Part 4.00.
- 2.02 The Licensee must not buck felled or dead-and-down timber if
  - (a) the timber is specified in Part 6.00 as reserved timber, or
  - (b) under an operational plan or the Acts, regulations or standards referred to in paragraph [8.01] of the Licence, the Licensee is required not to buck the timber for any reason, including silviculture, biodiversity or other forest management reasons.

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#### 3.00 UTILIZATION SPECIFICATIONS

- 3.01 Subject to paragraphs 3.02 and 3.03, the following utilization specifications apply to timber authorized for harvest under this Cutting Permit:
  - (a) all butt logs meeting
    - (i) the minimum diameter at stump height,
    - (ii) the minimum log length, and
    - (iii) the minimum top diameter

shown for that species in the table attached to this Schedule must be utilized; and

- (b) all top logs meeting
  - (i) the minimum log length, and
  - (ii) the minimum top diameter shown for that species in the table attached to this Schedule must be utilized;
- (c) all slabs meeting
  - (i) the minimum slab length, and
  - (ii) the minimum slab thickness shown for that species in the table attached to this Schedule must be utilized.
- 3.02 The Licensee need not utilize timber of the species and grades specified in Part 5.00 as optional utilization.
- 3.03 The Licensee must not utilize timber if
  - (a) the timber is specified in Part 6.00 as reserved timber, or
  - (b) under an operational plan or the Acts, regulations or standards referred to in paragraph [8.01] of the Licence, the Licensee is required not to utilize the timber for any reason, including silviculture, biodiversity or other forest management reasons.

#### 4.00 OBLIGATORY UTILIZATION

- 4.01 Timber of the following species and grades is specified as obligatory utilization:
  - (a) all coniferous species that are
    - (i) Sawlog Grade (Grade Code Blank), or
    - (ii) Dead and Dry Sawlog (Grade Code 3).

#### 5.00 OPTIONAL UTILIZATION

5.01 Timber of the following species and grades is specified as optional utilization:

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- (a) firmwood rejects;
- (b) all deciduous species of all grades; and
- (c) all coniferous species of the following grades:
  - (i) Lumber Reject (Grade Code 4);
  - (ii) Dead and Dry Lumber Reject (Grade Code 5); and
  - (iii) Undersized Log Grade (Grade Code 6).

# 6.00 RESERVED TIMBER

- 6.01 The following timber is specified as reserved timber:
  - (a) As per approved Silviculture Prescription(s).

#### 7.00 DEFINITIONS

- 7.01 In this Schedule, as exemplified by the diagrams attached to this Schedule,
  - (a) "butt end" means the log end that was previously attached to the stump;
  - (b) "butt log" means the log cut from the portion of the tree that was previously attached to the stump;
  - (c) "diameter at stump height" means
    - (i) in the case of standing timber, the diameter of the tree (outside bark) measured at the point of the maximum stump height shown in the table attached to this Schedule, and
    - (ii) in the case of a butt log, the diameter (outside bark) at the butt end of the log; and
  - (d) "slab" means one of 2 or more parts of a log produced as a result of the log fracturing along its length;
  - (e) "stump height" means the height of the stump measured on the side of the stump adjacent to the highest ground;
  - (f) "top diameter" means the diameter (inside bark) at the narrowest end of the log;
  - (g) "top log" means any log that is not a butt log.

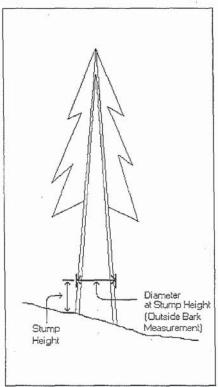
FS 580B RTEB Feb/01

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# SCHEDULE "B" - INTERIOR

# Diagrams and Tables for all Block(s)]

# 1. Falling Specifications



Species	Maximum Stump Height	Minimum Diameter at Stump Height
Lodgepole Pine	30 cm	15 cm
Douglas Fir	30 cm	20 cm
Spruce	30 cm	20 cm
Other species	30 cm	20 cm

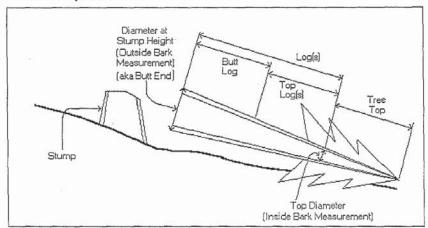
FS 580B RTEB Feb/01

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# SCHEDULE "B" - INTERIOR

# Diagrams and Tables for all Block(s)

# 2. Utilization Specifications



Species	Minimum Log or Slab Length	Minimum Diameter at Stump Height	Minimum Top Diameter or Slab Thickness
Lodgepole Pine	3 m	15 cm	10 cm
Douglas Fir	3 m	20 cm	10 cm
Spruce	3 m	20 cm	10 cm
Cedar	3 m	20 cm	15 cm
Other species	3 m	20 cm	10 cm

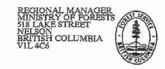
Note: Minimum top diameter or slab thickness (inside bark measurement) for cedar older than 141 years is 15.0 cm.

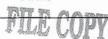
FS 580B RTEB Feb/01

Page 9 of 9









MIEIOIEII VIEL

TEMBEC INDUSTRIES INC. WOODLANDS ACCOUNTING BOX 4600 CRANBROOK BRITISH COLUMBIA

V1C 4J7

DEC 2 0 2001 MINISTRY OF FORESTS Date:

December 06, 2001

In reference to:

Client Number: Forest File:

00001402 A18978

Cutting Permit: Timber Mark:

156 EY6156

Invermere Forest District Nelson Forest Region

## Stumpage Advisory Notice

Attached is a summary of the appraisal information used in determining the stumpage rate for this cutting

The cutting authority Total Stumpage Rate of \$24.72 per cubic metre is effective for sawlogs scaled between

November 01, 2001 and December 31, 2001

inclusive unless this cutting authority is reappraised during this period in accordance with the applicable Appraisal Manual.

The Miscellaneous Stumpage Rates listed in the applicable Appraisal Manual in effect on the date of scale take precedence over the above rate. A levy and/or bonus may be applied to any Miscellaneous Stumpage

Objections to this rate determination should be brought immediately to the attention of the undersigned in this office. The formal 21 day review period specified in the Forest Act begins upon delivery of this notice. Consideration of any objection does not delay the determination nor stop the 21 day review period. Any rate change or redetermination as a result of an objection will result in a new Stumpage Advisory Notice being issued.

The Reserve Rate will be redetermined on January 1, April 1, July 1, and October 1 each year, or on any date specified by the Minister of Forests, according to appraisal policies then in effect.

Please be advised that this letter and information is releasable under the Freedom of Information and Protection of Privacy Act.

Timber Pricing Officer (A)

Attachment

This notice forms an integral part of the cutting authority document and should be attached thereto.

FDAVL1

DISTRICT COPY

# Page 2 of 2

Date:

December 06, 2001

In reference to:

Client Number: Forest File:

00001402 A18978

Cutting Permit: Timber Mark: 156 EY6156

Invermere Forest District Nelson Forest Region

The following is a listing of cutting authority and individual species rate calculations effective when scaled between

November 01, 2001 and December 31, 2001

inclusive unless this cutting authority is reappraised during this period in accordance with the applicable Appraisal Manual.

E		11		Species I	Rate Calculat	ion Detai	1		
	Cutting Author Rate Calculation		Species Code	Reserve Rate (\$/m3)	Silviculture Levy (\$/m3)	Development Levy (\$/m3)	Upset Rate (\$/m3)	Bonus Bid (\$/m3)	Total Rate (\$/m3)
	Estimated Value	\$121.77	FI	24.72	0.00	0.00	24.72	0.00	24.72
7	Estimated Cost	\$102.88	LO	24.72	0.00	0.00	24.72	0.00	24.72
=	Stand Value Index	\$18.89	11						
-	Mean Value Index	\$20.62	U						
+	Base Rate	\$26.45	П						
=	Indicated Rate	\$24.72							
	Reserve Rate	\$24.72							
÷	Development Levy	\$0.00	11						
+	Silviculture Levy	\$0.00							
=	Upset Rate	\$24.72	1						

This notice forms an integral part of the cutting authority document and should be attached thereto.

DISTRICT COPY

FOASAI

REPORT ID: IASR083 RUN DATE: 2001-12-06 RUN TIME: 11.19.31

MINISTRY OF FORESTS INTERIOR APPRAISAL SYSTEM LOGGING AND SILVICULTURE COST

PAGE: USERID: DATABASE:

TRKERBY SQLP1

**ESTIMATE** 

Timber Mark: EY6156

Appraisal Effective Date: 2001-11-01

Nelson Forest Region Invermere Forest District

A18978 Licence: Cutting Permit: 156

Invermere TSA Block E Total Volume:

Calculation Date: 2001-12-06

5,606 Expiry Date: 2002-10-31

Logging Trend Factor: 1.000 Silviculture Trend Factor: 1.000

MVI Eligible Indicator: Adjust Quarterly Indicator:

1.000 Manufacturing Trend Factor: Stumpage Rate Effective Date: 2001-11-01

Subphase Phase Cost Total PHASE (\$/m3) (\$/m3)

DEVELOPMENT:

Tabulated Culverts 0.00 7,149.60 Roads Fencing and Cattle Guards 0.00 Allocated Development 0.00 Engineered Development 2,852.00

TREE TO TRUCK:

Ground Skidding (Clear Cut) Ground Skidding (Partial Cut)

Overhead Cable Yarding Highlead & Grapple (Clear) Overhead Cable Yarding Highlead & Grapple (Partial)

Overhead Cable Yarding Skyline

Helicopter Logging Horse Logging

Specified Operation

LOG TRANSPORTATION:

Hauling Primary Secondary

Water Transportation

Special Transportation and Specified Operations

Road Maintenance

Road Use

Page 134 FNR-2011-00107

REPORT ID: IASR083	MINISTRY OF FORESTS	PAGE:	2
RUN DATE: 2001-12-06	INTERIOR APPRAISAL SYSTEM	USERID:	TRKERBY
RUN TIME: 11.19.31	LOGGING AND SILVICULTURE COST ESTIMATE	DATABAS	E: SQLP1
Timber Mark: EY6156	Appraisal Effec	tive Date:	2001-11-01
PHASE		Subphase Cost (\$/m3)	Phase Total (\$/m3)
FRASE		(4/m3)	(4) m3)
ADMINISTRATION & OTHER: Overhead Low Volume additive:			\$.17, s.21
TOTAL LOGGING COST:		s.17, s.	
TOTAL TRENDED LOGGING COS	ST:	.21	
SILVICULTURE: Basic Specified		1	s.17, s.21
TOTAL TRENDED SILVICULTUR	RE COST:		

\*\*\* Normal end of report \*\*\*



# **Facsimile Cover Sheet**

To:	Mark Serediuk
Company:	Tembec - Canal
Phone:	
Fax:	
From:	Nathan Stairs
Email:	
Phone:	342 4229
Fax:	342 4247
Date:	01/11/21
Pages including this cover page:	1

# Re: CP 156 Appraisal

hooks harsh but not much I can do.
Nathan.

Hi Mark. I got your fax of Nov 16 with the adjustments you've made. The following is what I have signed off and my rationale:

- 1. Rd Const Section 2 (\$600 m): you removed the gravel and the gravel truck but you put the D8 hours up from I have put it back at the gravel and approved \$1208.50.

  2. Rd Deac for Sect 1 (\$800m): you removed the gravel the left to be gravel and the gravel truck but you put the provent the gravel and the gravel truck but you put the gravel and the gravel truck but you put the gravel truck but you put the gravel truck but you put the gravel and the gravel truck but you put the gravel truck but you put the gravel and the gravel truck but you put the gravel truck but you put the gravel truck but you put the gravel and the gravel truck but you put the gravel truck but you put the gravel and the gravel truck but you put the gravel truck but you put the gravel truck but you put the gravel and the gravel truck but you put the gravel and the gravel truck but you put the gravel and the gravel truck but you put the gravel and the gravel truck but you put the gravel and the gravel truck but you put the gravel and the gravel truck but you put the gravel and gravel and gravel truck but you put the gravel and gravel gr
- Rd Deac for Sect 1 (\(\frac{1}{2}\)800m): you removed the \(\frac{1}{2}\) but left \(\frac{1}{2}\) hrs with a D8 to rip 800 m of basically flat rd. I have approved \(\frac{1}{2}\) hrs and the mob for a total of \$1643.50.
   Replacement of rd running surfac \(\frac{1}{2}\)6 km: you have deleted the gravel and the D8 and left 40
- Replacement of rd running surfac 6 km: you have deleted the gravel and the D8 and left 40 hrs with a grader. However while not gravelling the road sounds like the correct approach, it leaves simply grading the road as not eligible as an engineered estimate. There for I have not entered an amount for this item.

#### Stairs, Nathan FOR:EX

From:

Smedstad, Mark FOR:EX

Sent:

Tuesday, November 13, 2001 9:42 AM

To:

Stairs, Nathan FOR; EX

Subject:

RE: CP 156 Appraisal

#### Answers

Question 1 does it need gravel? The Ram Creek road is very bony they are only removing Approx 5000m3 of timber or 140 logging truck load. Do we normally gravel, if not why gravel this road! Question 2 Is this resonable? No the entire road doesn't need gravel. Question 3 cross ditching? All that would be done is cross ditching.

# Mark Smedstad Resource Assistant Timber Invermere Forest District (250) 342-4251

-Original Message-

From:

Stairs, Nathan FOR:EX

Sent:

Thursday, November 08, 2001 2:47 PM

To: Cc:

Smedstad, Mark FOR:EX Godlien, Teena D FOR:EX

Subject:

RE: CP 156 Appraisal

Mark - I've got to this appraisal and see the upper section and segment you mean on the map. They're asking for 600 m and you're saying they probably only need 300 m. In their estimate they have hrs with a D8, hrs with a gravel truck, hrs with a grader, and 500 yd3 of gravel. Without seeing this road, I have trouble with 1) not knowing if hrs with a 28 is appropriate for 600 m or 300 m, and 2) does it need gravel? As well, they're asking fro \$17,256 to gravel the entire 6 km of road from the south end of the FSR to the northern edge of their northern block. Is this reasonable? ie does the road need to be totally gravelled? Note - they've asked for 1446 yd3 which equates to 2 inches depth throughout. Finally, they want \$4780 to deactivate section 1, the southern spur (800 m long). It includes hrs with a D8 and hrs with a 225 excavator. If the avergae sude slopes are 10%, then what could you do to deactivate it other than crossditch and waterbar it with a hoe in about of hrs? Teena - since you've been out there recently as well, do have anything to add?

### Nathan Stairs, P.Eng.

Engineering Officer Invermere Forest District Ph (250) 342-4229 Fax (250) 342-4247 Nathan.Stairs@gems5.gov.bc.ca

-Original Message-

From: Smedstad, Mark FOR:EX

Sent:

Friday, November 02, 2001 2:09 PM

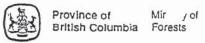
Stairs, Nathan FOR:EX

McConnell, Cy FOR:EX; Jablanczy, Steve FOR:EX

Subject: CP 156 Appraisal

Nathan, Tembec (canal flats) will have an appraisal coming at you this week for CP 156 L. Lussier River. I have noted in it they are asking for road (re)construction sec.02 seg.01. This section accesses private land, I don't think any road is needed past the landing,

Mark Smedstad Resource Assistant Timber







# FAX HEADER

FILE NO. A18978 CP 156

TO	邀	Mark Smedstad Forest Officer
NAME MARK SEREDIUK  MINISTRY OFFICE OR FACILITY	BRITISH COLUMBIA Ministry of Forests Invernere Forest District	Mailing Address: PO Box 189 Invermere BC V0A 1K0 www.for.gov.bc.ca/nelson/district/invermer Telephone: (250)342-4251 Facsimile: (250) 342-4247
PHONE NO. FAX NO.	2 9	e-mail: Mark.Smedstad@gems4.gov.bc.ca
SENT BY  DATE  OI   1   0    MARK T have the follow  CP 156 AMBARSA    D TABULAR ROAD Section Seb    T field inspected this w 5	MG Concern  Seg 1 0+00  TEUE JABIANCZ	Location: 625-4th Street Invermere, B.C.  SWIFF
	DIV	<u> </u>
RE	PLY	

FS 7 HTA 92/9 MR 2437

F-801



# Division BRITISH COLUMBIA Division

GESTION DES RESSOURCES FORESTIERES FOREST RESOURCE MANAGEMENT

CANAL FLATS Woodlands 9006 Grainger Road P.O. Box 68 Canal Flats, British Columbia V0B 1B0

Téléphone : (250) 349-5294 Télécopieur / Fax : (250) 349-5250

Destinataire / To :	Nathan Stairs	Fax:
C.C. :		_
Expéditeur / From :	Mark Seredick	~
Date:	Nov. 16, 2001	<del>-</del> :
Pages (Induant celle-ci / Including this one):	5	
OBJET / SUBJECT:	CP156 Appraisal	-
MESSAGE		
eng cos considerin	made adjustments to its after talking to a sign your comments. I on is used for ripping done	our avea still, and the D8 for
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C		
<del></del>		

S.V.P. communiquer avec l'expéditeur si vous ne recevez pas toutes les pages. / Please contact the sender if any pages are missing.

NOU 16 2001 11:34

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PAGE.01

# Interior Appraisal Data Sheet

4. Other Structures (Se	ec. 4 p. 22	
-------------------------	-------------	--

Туре	Number
Fencing(100's of meters)	
Cattle Guards	
Pipeline Crossings	

5.	***	Allocated	Development	(Sec.	4 pp.12)	(SBFEP and Apportionment)	Agreements)
----	-----	-----------	-------------	-------	----------	---------------------------	-------------

Applicable Volume\*:

N

<sup>\*</sup> Complete only when different from Cutting Authority Volume.

	Original Cost B	Estimate	Trend	1999 Cost	
** Identifier	Estimate \$	Year	Factor	Estimate \$	
		<del>                                     </del>	+ +		
<del> </del>					

# 6. Engineered Development (Sec. 4 pp. 23-27)

Applicable Volume\*:

M

<sup>\*</sup>Complete only when different from Cutting Authority Volume.

	Original Cost	Estimate	Trend	1998 Cost Estimate \$	
** Identifier	Estimate \$	Year	Factor		
Road Construction Sec 2	\$1,541.00	1999		\$1,541.00	
Deactivation Sec 1	\$3,306.00	1999		\$3,306.00	
Replacement of road running					
Surface 6 km	\$4,220.00	1999 -		\$4,220.00	

** Signature :	
Approval Date:	

- Applicable Volume: Complete only when different from Cutting Authority Volume.
- Please ensure that it is evident what the moneys were expended for. 'Indicate what is being done: upgrade, reconstruction, new road, replace bridge, endhaul, deactivation, road closure, as per the Appraisal Manual sec. 4.pp.21-26
- To be trended as per the Appraisal Manual sec. 4.pp.23-24.

**CP 156** 

Page 6

16/11/01

NOV 16 2001 11:35

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PAGE.02

ENGINEERED CONSTRU	CTION COST ES	TIMATES	1	Page of	1	
LICENCE FL A18978	C.P	156	Date:	09-Oct-01		
Name and/or Location:	Lower Lussier	South				
Description: Effective Date of Enginee		of Sec. 2 Seg. 10000				
	TYPE	FUNCTION (Per Appraisal Manual)	HOURS	RATE/ HOUR (JULY 1/98)	TOTAL	
1) Comp. bid costs			6			
2) Machine Cost:	Cat D8	Reconstruct		s.17,	\$1,330-00	-7 997. <sup>55</sup>
0031.	Grader 14G	Reconstruct		s.21	\$211.00	
3) Labour						
Cost:						
4) Materials	-					
Cost:		;				
5) Freight + haulage for materials only						
Cost:						
6) Engineering - if applicable						
TOTAL COST ESTIMATE			(JULY 1,	1998)	\$1,541.00	
List each machin     Freight and hauf     No GST to be in     Cost of designed	ne employed and wor age allowed for perm cluded, PST is allowed and engineering for for more for other mo	ranent type bridges (i.e., stee	t, labour and I, concrete, d t of design, i	material rates. or glu-lam). inspection	1208,5	0 /
Resource Officer Enginee	ring:	Signature		. Date:		
CP 156					9	ı
NOV 16 2001 11:35		,	+25	503495250	PAGE.03	

Name and/or Location: Lower Lussier - South  Description: Road Deactivation for Sec 1  TYPE   FUNCTION   HOURS   RATE/ HOUR   (Per Appraisal Manual)   HOURS   RATE/ HOUR   (JULY 1,98)   TOTAL   (JULY 1,198)   Section   (JULY 1,198)   Section	NGINEERED CONSTRUC	TION COS	T ESTIMATES	1	Page of _	1	
Description: Road Deactivation for Sec 1	JCENCE FL A18978	_ C.3	P. <u>156</u>	Date:	09-Oct-01		
Effective Date of Engineered Estimate: November 1,2001  TYPE   FUNCTION   HOURS   RATE   HOUR   GULLY 1/98)    1) Comp. bid costs   Cat D8   Deactivation   S2,860.00    2) Machine   Cat D8   Deactivation   S2,860.00    3) Labour   Cost:	Name and/or Location:	Lower Lus	sier - South	_			
Effective Date of Engineered Estimate: November 1,2001  TYPE   FUNCTION   HOURS   RATE   HOUR   GULLY 1/98)    1) Comp. bid costs   Cat D8   Deactivation   S2,860.00    2) Machine   Cat D8   Deactivation   S2,860.00    3) Labour   Cost:	Decariation	Road Doo	ativation for Sec 1	)tr			
TYPE (Per Appraisal Manual) HOURS RATE/ HOUR (JULY 1/98) TOTAL (JULY 1/98) TOTAL (JULY 1/98) S2,860.00 (Ast D8 Deactivation							
(Per Appraisal Manual)  (Per A	2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					7071	
2) Machine Cost:  Cost:  4) Materials Cost:  5) Freight + haulage for materials anny Cost:  6) Engineering - if applicable  1. Refer to Appendix 1 of the Interior Appraisal Manual for equipment, labour and material rates. 2. List sach machine employed and work performed. 4. Freight and haulage allowed for permanent type bridges (i.e., steel, concrete, or glu-lam). No GST to be included, PST is allowed on materials. 6. Cost of designed and engineering for log bridges not allowed. Cost of design, inspection and supervision for more for other more complex structures by a professional engineer not on salary may be allowed.  Resource Officer Engineering:  Signature  10		TYPE	1	HOURS	HOUR	IOTAL	
Cost:  Cost:    A) Materials   Cost:				Ţ			
Cost:  4) Materials  Cost:  5) Freight + haulage for materials only Lowbed MOB & DeMOB  Cost:  6) Engineering  - if applicable  1. Refer to Appendix 1 of the Interior Appraisal Manual for equipment, labour and material rates. 2. List each machine employed and work performed. 4. Freight and haulage allowed for permanent type bridges (i.e., steel, concrete, or glu-lam). No GST to be included, PST is allowed on materials. 5. Cost of designed and engineering for log bridges not allowed. Cost of design, inspection and supervision for more for or other more complex structures by a professional engineer not on salary may be allowed.  Resource Officer Engineering:  Date:	2) Machine	Cot Do	Deactivation	/	1	\$2 660 00	,
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5) Freight + haulage for materials only Lowbed MOB & DeMOB \$646.00  Cost:  6) Engineering - if applicable (JULY 1, 1998) \$3,306.00  1. Refer to Appendix 1 of the Interior Appraisal Manual for equipment, labour and material rates. 2. List each machine employed and work performed. 4. Freight and haulage allowed for permanent type bridges (i.e., steel, concrete, or glu-lam).  No GST to be included, PST is allowed on materials. 6. Cost of designed and engineering for log bridges not allowed. Cost of design, inspection and supervision for more for other more complex structures by a professional engineer not on salary may be allowed.  Resource Officer Engineering: Date:	4) Materials	<del> </del>					
Cost:  6) Engineering  - if applicable  TOTAL COST ESTIMATE  1. Refer to Appendix 1 of the Interior Appraisal Manual for equipment, labour and material rates, 2. List each machine employed and work performed. 4. Freight and haulage allowed for permanent type bridges (i.e., steel, concrete, or glu-lam).  No GST to be included, PST is allowed on materials. 6. Cost of designed and engineering for log bridges not allowed. Cost of design, inspection and supervision for more for other more complex structures by a professional engineer not on salary may be allowed.  Resource Officer Engineering:  Date:  Signature	Cost:						
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Signature  P 156	List each machin     Freight and haule     No GST to be inc     Cost of designed     and supervision to	e employed ar age allowed for cluded, PST is and engineers for more for oth	nd work performed.  r permanent type bridges (i.e., s allowed on materials. Ing for log bridges not allowed.	steel, concret	e, or glu-lam). n, inspection	(643. <b>5°</b>	/
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Cost of designed and engineering for log bridges not allowed. Cost of design, inspection
and supervision for more for other more complex structures by a professional engineer
not on salary may be allowed.

Resource Officer Engineering:	Signature	Date:	
CP 156			P. 1
NOV 16 2001 11:36		+2503495250	PAGE.05

# CP SMOOTH SHEET

Forest Licence A18978
Cutting Permit 156
Cover Letter add any exceptional considerations
Award date Nov 1 /01 Term 3yR
Timber Mark $\frac{6}{1} \times \frac{6}{5}$
Schedule A: Special Conditions Standard Clauses (glossary cpstandard) (Please cross out if you don't require one of the following clauses)
1.00 Orderly and Sanitary Condition The Licensee shall, concurrently with harvesting operations, leave all areas in an orderly and sanitary condition.
2.00 Removal on Termination The Licensee shall remove all logging equipment on an area of land referred to in paragraph 1.01 of the CP and shall leave all areas in an orderly and sanitary condition upon the earlier of completion of operations or expiry of the CP.
3.00 Discharge of substance In the event that the Licensee causes or permits the discharge into the land or water of a substance that is or may be, injurious to health, the Licensee shall promptly notify the Medical Health Officer of the location, time, duration, nature and quantity of the discharge of the substance and shall take immediate action to prevent and cease the discharge.
4.00 Special Forest Products Subject to designated Forest Official approval, special forest products may be cut at the Licensee's option.
5.00 Cut Control For cut control purposes, (CP #) is designated as catastrophic endemic.
\\FSDIN-R1\Root\\!WorkGrp\RESOURCE\\HARVESTI\ROUTETAG\\CP SMOOTH SHEET.doc 01/10/16

#### Optional Clauses (glossary cpoptional)

☐ 1.00 Schedule of Blocks

The Licensee must ensure that

- (a) all phases of timber harvesting and related opertions under or associated with this CP are synchronized, and
- (b) all harvesting on one area designated for harvest under this CP is completed to the satisfaction of the Forest Officer before harvesting is commenced on another area.

Schedule B: Obligatory Utilization

☐ Interior Catastrophic stands (Obligatory)

(always use catastrophic)

Schedule B: Optional Utilization

☐ Interior Catastrophic stands (Optional)

(always use catastrophic)

Schedule B: Reserved Timber

Salvage permits only

Live trees reserved species/type?

1. Falling Specifications (glossary falling specs)

Species	Maximum Stump Height	Minimum Diameter at Stump Height
Lodgepole Pine	30 cm	15 cm
Douglas Fir	30 cm	20 cm
Spruce	30 cm	20 cm
Other species	30 cm	20 cm

2. Utilization Specifications (glossary utilization specs)

Species	Minimum Log or Slab Length	An annual little for any survey of the control of the control	Minimum Top Diameter or Slab Thickness		
Lodgepole Pine	3 m	15.cm	10 cm		

Douglas Fir	3 m	20 cm	10 cm	
Spruce	3 m	20 cm	10 cm	****
Cedar	3 m	20 cm	15 cm	
Other species	3 m	20 cm	10 cm	

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01/10/16

### INVERMERE FOREST DISTRICT APPRAISAL FIELD CHECK REVIEW

Licence: TEABEC Licence: AIB978 CP: 156 Mark: 516 BC
Effective Date: oi/ ii/oi (Yr/Mo/Da) Expiry Date: oi/ oi/oi/ Cruise Based: Yes (No)
Appraisal Type: New Reappraisal Damage or Amendment (From NF 194)
Location: L. Lusseer South.
Respond to the following questions with v if field check has been completed, or with v if field check has
not been completed (if * then briefly explain).
TVC Paris bashes Chal Cair 2 If
Cutting Permit has been Check Cruised? If not, complete * below.  *  Checked species, timber type, age, height, and vol/ha information.
Road Permit roads have been constructed.
☐ Block roads and operational landings have been constructed.
El Block toads and operational familings have been constructed.
Tree to Truck:
☐ Flarvesting systems are required as specified.
Sensitive Site designation appropriate.
Specified Operation is required.
Log Transportation:
Werified cycle times for new road sections, and/or spot check cycle times.
Development, Drainage Structures:
☐ Check requirement for drainage structures; size, length, and number.
☐ Tabular bridge location, type, span and crib height. R.O. Eng.: Initial Date://
Development, Tabular Roads:
Werified road construction, type, length, moisture, side slope and % rock.
☐ Verified road; stabilizing length, depth, haul distance and material type.
☐ Wing fencing/Cattle Guards (if applicable).
Engineered Development:
□ Need for field inspection- L_M_H_by EngTimb by Date:/_/
☐ Verified Engineered Development costs.
☐ Road Permit coincides with Appraisal Initial(R.O. Eng/Eng. Ass't)
R.O. Eng.: Initial Date:/_/
Paris Cilvin Itana
Basic Silviculture:
DIM erified Root Disease present and treatment as specified.
REAPPRAISAL * (*Through consultation with Compliance)
□ Verified additional/deleted area,
☐ Verified cutblocks/portions of cutblocks remaining to be cut.
☐ Verified road construction, and development as specified.
☐ Verified reappraisal reflects actual harvesting/silvicultural treatments.
VARIANCE: Yes □ No □ (Note on ledger)
, and the second
Comments: DC. NOTE NO SIGNATUSE BY. Saed V.
1 1 2 - 11
· Blow Down 90. SEEMS HIGH.
2) Bile VIVES I Proceed the three Takes to be accounted
If changes are made to the submitted appraisal as a result of office or field review and/or variances
If changes are made to the submitted appraisal as a result of office or field review and/or variances are found comment on a greensheet and attach it to this form.
SIGNI
NO STORY
Field Review by: M. Snewtoo R.A. Timber Date: 01/11/75.
Ledgered by: Valuation Tech. Date: 61/11/28
・ 大学・大学・大学・大学・大学・大学・大学・大学・大学・大学・大学・大学・大学・大
Approved by: 5 R.O. Timber Date: 0/1/14 03



#### Division BRITISH COLUMBIA Division

220 Cranbrook Street North P.O. Box 4600 Cranbrook, British Columbia V1C 4J7 Téléphone: (250) 426-6241 Télécopieur / Fax: (250) 426-5372



MEGEIVEL

OCT 1 8 2001

File: CP 156			MINISTRY OF FORESTS	
Date: October 9, 2001				
Ministry of Forests Box 189 Invermere, British Columbia VOA 1K0				
Dear Sir:				
Please find attached our final a	application for CP 156	_, Licence #_FL	A18978	
in the vicinity ofI	ower Lussier - South	The state of the s	•	
CP area and the Invermere CP			erational plans applicable to the a as follows:	
PLANNING				
Strategic/Higher Level 1	Plans			
<ul> <li>East Kootenay Land Use F</li> </ul>	Plan			
Resource Zone	□ IRMZ	☐ ERDZ	□ SRMZ	
<ul> <li>Draft Landscape Unit # _</li> </ul>	I 4			
Biodiversity Emphasis C	Option Low			
Sensitive Area	Date Approved/	/	or N/A	
•TRP	Date Approved/		or N/A ⊠  NOTIFICATION OF RECEIPT  AND ACKNOWLEDGEMENT	
RIT D'INNOVATION  PIRIT DE INNOVATION  CP 156 Lower Lussier - South			DATE On 18 los  Ministry of Forests Invermere Forest District File # 19500 10 A 18978 Amendment #	c

#### Date Approved or Date Submitted Forest Development Plan 00 / 08 / 16 Forest Development Plan Amendment 01 / 09 / 06 Forest Development Plan Exemption \_\_\_/\_\_/\_\_\_ 01 / 09 / 06 Silviculture Prescription Silviculture Prescription Exemption \_\_\_/\_\_/\_\_\_ CP SUBMISSION REQUIREMENTS 1:20,000 map(or suitable scale) $\boxtimes$ or N/A Cruise Compilation X or N/A Rationale: Cruise Compilation enclosed Appraisal Data Sheet $\boxtimes$ or N/A or N/A Forest Cover Base Rationale: See Appraisal Map Dxf File and Auto Cad map with UTM $\boxtimes$ or N/A Coordinates Rationale: \_\_

Operations Plans for Cutting Permit or Road Permit (Previously Approved or Supply Application)

CP 156 Lower Lussier - South

2)

#### RP SUBMISSION REQUIREMENTS

0)		Date Approved or Date Submitted	N/A
	Road Permit Application	-	
	→Schedule A Design Criteria	Yes 🛛 No 🗌	П
	→Schedule A Engineering Structures Table	Yes No	
	→Schedule A Road Specifications	Yes No	
	→Map 1:20,000, legend, DGN files	Yes No	
			$\boxtimes$
•	Plans and Profiles	//	
٠	Terrain Stability Requirements	//	
٠	Major Structure Requirements	//	$\boxtimes$
	Road Use Permit (to be submitted)	//	
٠	Road Use Permit Exemption	//	$\boxtimes$
Th I to	an integral part of the Cutting Permit document we oducts in the Cutting Permit area.  is application is consistent with the planning process rust it meets with your approval.  ours truly,		
	Day		
	ave P.C. Brown Iministration Forester		
cc	: Barry Benson, Canal Flats Planning Superintendent		
M	S\cb		
en	cl.		

CP 156 Lower Lussier - South





FILE: 19500-40 A18978 CP 156	Reminder - Check FTAS
DATE: Dec 3/01 FAX TO: 354-6250	MARK:
1 File Room (Pull file/make up file & forward w/par	ckage to Revenue Section)
2 Revenue Section	
Nelson Forest Region Comments:	
Attention: Appraisal Clerk	(6)
Appraise (New) Reappraise	Amendment
NF 194 ATTACHED:	
Please check: (IF APPLICABLE)  Bid Proposal Direct Sale	Salvage Sale L/C under SB
NF 194 NOT ATTACHED: (EXTENSIONS)	
FTAS UPDATED: TIMBE	ER MARK:
FTAS UPDATED: TIMBI  Extend FIXED Rates toYYMM	
particular de la constitución de	_DD
Extend FIXED Rates toYYMM_	DD (Require Approval)
Extend FIXED Rates toYYMM _ Extend ADJUSTING Rates toYYMM NOTE:	DD (Require Approval)
Extend FIXED Rates toYYMM _  Extend ADJUSTING Rates toYYMM  NOTE:  TENURE OFFICER/SB FORESTER APPROVAL OF ADJUSTIN	DD (Require Approval)  NG RATE EXTENSION:  Expected to be scaled on the cutting
Extend FIXED Rates toYYMM _  Extend ADJUSTING Rates toYYMM NOTE: TENURE OFFICER/SB FORESTER APPROVAL OF ADJUSTIN Initials:Date:  Extension of adjusting rates are only permitted if no timber is exauthority during the next year or there is less than 2000 m³ of m	DD (Require Approval)  NG RATE EXTENSION:  Expected to be scaled on the cutting
Extend FIXED Rates toYYMM_  Extend ADJUSTING Rates toYYMM  NOTE: TENURE OFFICER/SB FORESTER APPROVAL OF ADJUSTIN  Initials:Date:  Extension of adjusting rates are only permitted if no timber is ex authority during the next year or there is less than 2000 m³ of m the cutting authority.	DD (Require Approval)  NG RATE EXTENSION:  Spected to be scaled on the cutting terchantable timber remaining on

The information contained in This field data sheet is con Licensee:	patible with the			ffective July 1,		of Privacy Act.
Licensee: _			CP:	156		
Effective Date:				02/10/31		
Ellective Date.	yy/mm/dd		Explis bate.	yy/mm/dd		
Cruise-Based: (Y or N)						
Appraisal Type (X one):	New	X	Reappraisal			
( Sec. 2 pp. 3 to 9)	Amendment		Damage			
Compilation SE% =		Check Crt	uised: (Y or N)			
Geographic Location:	Lower Lussier S	South	Supply Block:	E		
AREA (Hectares to nearest	0.1)		VOLUME (M3	to nearest whol	e number)	
Total Merchantable Area =	164.1	ha	Merch. Volume	e Cruised =	5606	m3
Minus Area of roads harvest	ed		Minus Volume	from roads harv	ested	
under another mark =		ha		mark (if part of		
Other mark =		,		volume above) =		m3
Plus Area of roads harvested	4			reserved on par moved above) =		m3
outside of cut blocks	7//				25 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11112
under this cutting authority mark (if applicable) =		ha	Plus Volume fi cut blocks (if a	rom roads harves	sted outside	m3
	164.1	ha	Original merch		5606.	m3
Plus Additions:	104.1	ha	Original merci	Plus Additions:		m3
Minus Deletions:		ha	1	Winus Deletions:		m3
Net Total merch. area=	164.1	ha	Total current		5606.	m3
Area remaining to be cut =	164.1	ha	(Sec. 4 pp.4,5)	volume remaining =	5606	m3
372		-		150	0	<b>1</b> 6
Pt. of Appraisal(Sec. 2pp12,1:			•	tual Destination:		
Isolated Cutting Author	only: (Y or N	( Sec.4 pp.49)	Specified C	peration: (	YOFN)	(Sec.4 pp 3)
	S		RMATION TAB	LE - (Sec. 4 p. 4		(GCC.4 pp 3)
Species	Volume	Decay	Stud Log %	Cruise Average	· · · · · · · · · · · · · · · · · · ·	Selling Price
	(m3) (Sec.4 pp 4,5)	(%) (Sec.4 pp 4,5)	(Sec.3 pg 9)	LRF (Sec.4 pp 4,5)	(L,M & H) (Sec.3 pg 6)	Zone 7, 17 or 37*
Balsam (BA)						
Cedar (CE)						
Douglas fir (FI)	3079	4	33	186	0	
Hemlock (HE)						
Larch (LA)						7
Lodgepole pine (LO)	2527	11	93	164	0	
Spruce (SP)						
White pine (WH)						
Yellow pine (YE)		1/10				
TOTAL MERCH. VOLUME	5606	*Selling Price	Zone: 17 if Av	tree vol. <.3 m3	, Zone 37 if HE 0	4 mandatory
CP 156		1	Page 1			10/9/01

TREE TO TRUCK DATA Support Centre (Sec.4 p.30-31)	Canal Flats		Distance (km):			41	
	Ground	Skidding	Overhead		Skyline	Helicopter	
	Clear Cut	Partial Cut *	Ca Clear-cut	Partial Cut	>300m or Int. Sup.	(Sec.4.pp 33)	
Variables (Sec.4 pp. 28)	(Sec.4.pp33,4)		(Sec.4.pp 34,5)	(Sec.4.pp 34,5)		(Gec.4.pp 66)	
Area (Hectares)		164.1			, , , , , ,		
Vol. to be Harvested* -m3 (Sec.4 pp5)		5606					
Biogeoclimatic Zone **(Sec. 4 pp. 29)		IDF					
Volume/tree - m3(Sec. 4 pp. 31)		0.27					
Volume/hectare - m3(Sec. 4 pp. 29)		34					
Stand Defect (DWB %) (Sec. 4 pp. 31)		11					
Partial cut % *** (Sec. 4 pp. 29,30)		18			DESCRIPTION OF THE		
Average Slope - % (Sec. 4 pp. 29)	1-130-1-140-1-150-1-1-1-1-1	30					
Blowdown - % (Sec. 4 pp. 29)		25					
Heavy Fire Damage - % (Sec. 4 pp. 36)		0					
Dead Useless Snags -% (Sec.4 pp.36)		12					
Skyline Yarding Slope Distance (Sec.4 pp.3	2)						
Heli Yarding Map Distance (Sec.4 pp.32)							
Hemlock ****							
Douglas fir ****					100000000000000000000000000000000000000		
Spruce ****							
Lodgepole Pine ****	CONTRACT NO.						
	(Valuma m2	Masterea	ľ				
Horse Logging (Sec.4 pp.33)	Volume m3	Hectares					
* Volume to be harvested based on factored  ** Dominant zone by volume of system.  *** Partial Cut - ground skidding, cable or he  All partial cut 90% removal and greater ar  ***** Volumes to be taken from the Harvest I	licopter: 1-89% e clear cut.			i.			
Total Volume (m3) based on above harvesti			306	Total Hectare	es =	164.1	
Specified Logging Operations ****	(Sec. 4 pp.:	3)					
Description:			ne (m3)	Cost Estima	ate \$/m3		

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in order to deliver logs to an existing or appraised road/landing

LOG TRANSPORTATION DATA (Sec.4pp 38-42)

#### Highway Haul Off Highway Haul Hauling: Secondary Haul Time hours Primary Cycle Time Calculation Road Speed (km/hr) Time (minutes) Distance Empty Identifier (Primary/Secondary) (km) Loaded Empty Loaded 28.0 90.0 100.0 18.7 16.8 Highway To Secondary 10.2 40.0 10.2 Secondary highway to Common 60.0 15.3 3.0 20.0 30.0 6.0 Common to Mid Permit 9.0 33 Subtotal = 43 Cable prorated delay (based on 75 min. delay time) Loaded Empty Non-cable prorated delay (based on 60 min. delay time) Load Handling Delay (minutes) 60 Loaded plus Empty (minutes) 76 Total Cycle Time (minutes) 136 2.3 hours Water Transportation (Sec.4 pp 41) (CHECK ONE): Slocan(SLLK) Arrow(ARLK) Kinbasket(KILK) Koot.(KOLK) Revelstoke(RELK) Lake Tow Distance (nearest 1 Km) Dump and Boom (CHECK IF YES) Yes Dewater/Reload Yes Road Maintenance Yes X (sec.4 pp.43-46) Road Use Charge (explain) \$ Cost/M3 (Sec. 4 pp 47) Barge/Ferry Used for Truck Haul BUK Kinbasket (Reservoir Lake) (Sec.4 pp42) If Yes, check applicable one: BUR 1880 Res. (Reservoir Lake) BUA All Others (Natural Lakes) Barge/Ferry Used for Crew Transportation If yes check **BFA** Kinbasket (Sec.4 pp42) Specified Transp. Systems (Sec 4 pp3) Kinbasket Lake Barge/Ferry not used for truck haul (private). \$Cost/M3 ADMINISTRATION AND OTHER COSTS (Sec. 4 p. 48) Isolated cutting authority - Kinbasket Lake only (Sec. 4 p. 49), (Code 3) - Yes or No **CP 156** Page 3 10/10/01

ROAD AND DRAINAGE STRUCTURES (New, Reconstruction & Upgrade)							
1 Culverts (Tabulated) (Sec. 4 pp. 18-19)	Applicable Volume*	(m³)					

Circular Pipe Diameter	Circular Pipe Length	Number Required
1.0 m		200
1.2 m	-19:0 m /m 8)	A (M.S)
1.4 m		
1.6 m	10.0 m (M. ()	4 (M.8)
1.8 m		

CP 156

z. Bridges				Applicable	e volume	_		(m <sub>2</sub> )
(Previously tabular	(Sec. 4 p. 2	20)	(Engineere	d) (Sec. 4 p. 23-2	7)			
Bridge Identifier	Bridge Type**	Average Crib Height (m)	Span Length (m)	Engineered Cost (\$) Estimate	Cost Estimate Base Year	Trend Factor	1999 Cost Estimate	R.O. ENG. Approval
					E CONTRACTOR OF THE CONTRACTOR			

Bridge Type**	Span Length (m)	Engineered Cost (\$) Estimate	Cost Estimate Base Year	Factor	1999 Cost Estimate	R.O. ENG. Approval
	$\neg$					
+			-	$\vdash$		
	Type** Crib	Type** Crib Length	Type** Crib Length Cost (\$)	Type** Crib Length Cost (\$) Estimate	Type** Crib Length Cost (\$) Estimate Factor	Type** Crib Length Cost (\$) Estimate Factor Cost

- \* Applicable Volume: Complete only when different from Cutting Authority Volume.
- \*\* Bridge Types: S = Steel, L = Log, C = Concrete, G = Gluelam, P = Portable.

  Attach supporting information for bridges. Confirm if portable bridge (Sec 4 pp.26) is a new purchase or has been previously used elsewhere.

P 156	Page 4	10/9/01

٥.	Road Identifier:	Constructi	Ram Creek S		ction Only) -	(Sec. 4 pp. 12	-17)	
	Biogeoclimatic 2	Zone:	1DF					
	Road Group Nu		11 - per Table	e 4-3 (Sec.4 p	o 17)	10		
	Group10 Boundary			Applicable Vol	,		•	МЗ
	Cranbrook Invermere Group 11			*Complete onl	y when different	from Cutting A	uthority Volume.	
	Arrow Columbia Kootenay Lake				SUBGRADE		ADDITIONAL STABILIZING MATERIAL	_
	Road	Road	Section	Soil	Side	Rock	Stabilizing	
	Section	Type <sup>1</sup>	Length	Moisture <sup>2</sup>	Slope %	(%)	Length	Ì
	Number	O,B,W (Sec.4 pp13)	>.1 Km (Sec.4 pp13)	Blank or W (Sec.4 pp15)	Rd. Gr. 10&11 (Sec. 4 pp 14)	Rd. Group 11 (Sec.4 pp14)	>.1Km (Sec.4 pp20-22)	
1	Seg 1 Seg 1 0+000-0+763	В	0.8		F. 5	80		
2								Discount of the last of the la
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18								-
19	<del></del>						ļ	
20		a m extint		IV-m	l <u></u>			
2	Biogeo. Zone Li Keep Biogeoclim Draw a line acro Road Type: Op Soil Moisture Re One way	natic zones sep ess this page w erational, <b>B</b> lo	erate. ith Biogeo. Zo ck, <b>W</b> inter(Sn	ow) (Sec. 4 pp	13)	pages if necess	ary.	
	CP 156			De	age 5			10,

4. Other Structures (Sec. 4 p. 22)

Туре	Number
Fencing(100's of meters)	
Cattle Guards	
Pipeline Crossings	

Applicable Volume*:		M <sup>3</sup>		
* Complete only w	hen different from Cuttir	ng Authority Vo	olume.	
	Original Cost E	stimate	Trend	1999 Cost
** Identifier	Estimate \$	Year	Factor	Estimate \$
				5
Engineered Development (S	ec. 4 pp. 23-27)	M <sup>3</sup>		590
Applicable Volume*:			\$1208.50	_
*Complete only when diffe	erent from Cutting Author	rity Volume.	1200.	
	Original Cost E	etimato	Trend	1998 Cost
** Identifier	Estimate \$	Year	Factor	Estimate \$
Road Construction Sec 2	\$4,137.50 × /	1999	1 dotor	\$4,137.50
Deactivation Sec 1	\$3,155.20 × <	1999		\$4,780.00
Replacement of road running	45,135.25			/ + 1,
Surface 6 km	\$\phi\$\\$\\ \\$\\ \\$\\ \\ \\ \\ \\ \\ \\ \\ \\	1999		\$ \$17,256.00 >
	1			
		1	/	
R.O. Engineering	1/5/	\$16	43.50~	
** Signature :	N.Stais Nov		_	
Annesed Date	1/	arter		
Approval Date:	Nov	4/01		
Applicable Volume: Complete only	when different from C	utting Author	ritv Volume.	
		52 5450 165		
Please ensure that it is evident what is being done: upgrade, reconstruction				
road closure, as per the Appraisal I			naui, deacuv	auon,
	and a state of the			
		4		
To be trended as per the Appraisal	Manual sec. 4.pp.23-24	4.		
	Manual sec. 4.pp.23-24	4.		
To be trended as per the Appraisal	Manual sec. 4.pp.23-24	4.		10/10/01

#### BASIC SILVICULTURE (Sec. 4 pp. 52-54)

Treatment Regime	Total Area for Silviculture (ha)	Non-commercial Brush Areas Less Than 4 ha ** (Sec. 4 pp. 54)	R Factor (Sec. 4 pp. 54)	Total Merchantable Area* = 164.1 ha			
Α	(IIa)	(Sec. 4 pp. 54)		Plus Additions* = 39.0 ha			
				Minus Deletions* = ha			
В				Subtotal (Area of cut blocks) = 203.1 ha			
D	168.6	0.0	0.18	Minus Area roads & landings - 34.5 ha			
	166.6	0.0	0.16	Minus Area roads & landings = 34.5 ha			
E				Minus Area of Imm/NP =ha			
				**Plus Area of NCBr <4 ha =ha			
G				Total Area For Silviculture  Cost Estimate = 168.6 ha			
Н							
				1			
No Treatment	34.5			•			
Total Area	203.1		]				
Root Dis	sease C	ontrol	(Specified Ope	ration Sec.4 pp.2-3)			
Includes Lodg	epole pine st	ems from 12.5 cm db	h and deciduous	and other conifers from 17.5 cm dbh.			
root disease o	Include copies of the total stem stand tables (# of stems by diameter class) for the area of root disease control. For root disease control, do not use the factored (reduced) stand tables. Note the number of hectares requiring root disease control on the stand table for each area.						
Pushover Logging or Destumping ha Volume = m3 (and "popup")							
Cost Estimate =(Region will calculate the cost estimate.)							
*From Page 1 of this NF 194.  **Individual areas of NCBR greater than 4 ha in size must not be included in the appraisal. (Sec.4 pp.54)							
CP 156 Page 7 10/9/01							

Rates

#### Small Business Enterprise Program Levies (Sec.6 pp.8)

Include Levy for Basic SilvIculture?		Sawlogs	Grade 3	Grade 4,5,6		
Include Levy for Development?	(YES or NO)					
Explain Levy						
Competitive Special Fore	st Products					
Species Product				:		
Species Product						
Species Product				:		
REPORT - PRINTING						
Address - Recipie	ent of 10-day is ny Name, Add		Code			
Tembec Industries Inc	).					
P.O. Box 4600			_			
Cranbrook, B.C. V1	C 4J7		-			
Attention: Troy Hr	omadník		_			
Woodlot Annual Rate Selection	on - Select on	e				
Annual Adjusting		(No change in ra	te until next annual	re-apppraisal)		
Quarterly-Adjusting		(Rate changes e	very January, April,	July and October)		
Licensee Signature:		2	Date	. Dec 3/	0/-	
(Print name)	my Be	nsen	_			
	ţ		•	: 1	,	
DATA SHEET REVIEWED BY	R.A. TIMBER	> .				
Ministry Signature: Maj	JA-		Date	Dec 3/0/		
LAST MOF FIELD REVIEW BY	r: // /					
Ministry Signature:	1-Unta	}	Date	Dec 3	101	
APPROVED BY MINISTRY DE	SIGNATE	0				
Ministry Signature:	Dyl.	Alses	Date	: 01/12	1.03	
Print name)	5 Jab1	ancil		/ /		
CP 156 DEC 03 2001 13:35		Page 8		+2503495250	10/3 PAGE.	9/01 23







#### INTERIOR APPRAISAL DATA SUBMISSION

Licence	Lember Ind. Inc. Permit	156	Mark	EY6156.
			-	

#### **ACKNOWLEDGEMENTS**

This Appraisal Data Submission contains, as of this date, truthful information on the timber to be harvested, site conditions, harvesting, development, and silvlculture plans and other information, all prepared according to the *Interior Appraisal Manual*.

Registered Professional Forester:	::
Name: BARRY BENSON R.P.F.	RPF's Signature and Seal:
R.P.F.#: 302Z	÷
Phone: (250) 349-5294	
Fax: (250) 349-5250	
E-mail Address: bbenson Dcrestonok.com	
Date (ccyy/mm/dd):	
2001/12/03.	

The information contained in this package may be released under the Freedom of Information and Protection of Privacy Act.

November 1, 2001

DEC 03 2001 13:35

+2503495250

PAGE.02

#### WEIGHTED CYCLE TIME CRESTBROOK FOREST INDUSTRIES LTD. CANAL FLATS AREA

LOCATION:

Lower Lussier - South

CP:

156

COMMON JUNCTION:

South end of block 006

(see appraisal map for common junction location)

CYCLE TIME CALCULATIONS								
	DISTANCE	SPE	ED (km/hr)	TIME (hrs)				
DESCRIPTION	(km's)	LOADED	EMPTY	LOADED	EMPTY			
highway	28	90	100	18.67	16.80			
secondary highway to	10.2	40.00	60.00	15.23	10.15			
common to mid permit	3.0	20.00	30.00	9.00	6.00			
TOTAL	41.2	57.56	74.93	42.9	33.0			
111-2011/25					75			

FINAL CYCLE TIME: 2.3

Total Factored Volume of Permit:

5606

Block	Length	Volume	% of Permit	Distance
6	3000	5606	1.00	3.00
				3.00

APPRAISAL.XLS

## APPRAISAL,xls

# BASIC SILVICULTURE - R FACTOR CRESTBROOK FOREST INDUSTRIES LTD. CANAL FLATS AREA

Location: Lower Lussier - South CP: 156

PERCENT	REMOVAL	0.18	
TREATMENT	REGIME	D	
NET	HA.	168.6 I	
GROSS	HA.	203.1	
FACTORED	VOLUME	2606	2606
TOTAL	VOLUME	30564	30564
SILVICULTURE	SYSTEM	single tree sel	
BIO-GEO.	ZONE	IDFdm2 01	
T.U.		Ţ	
BLOCK		9	

SUMMARY OF:

R FACTOR

5606 0.18 5606 0.18 30564

ENGINEERED CONSTRUCTION COST ESTIMATES				1	Page of	1	
LICENCE	FL A18978	C.P.	156	Date:	9-Oct-01		
Name and/	or Location:	Lower Lussier S	South				
Description: Effective Date of Engineere		Reconstruction of Sec. 2 Seg. 1 ed Estimate: 1-Nov-01					
		TYPE	FUNCTION (Per Appraisal Manual)	HOURS	RATE/ HOUR (JULY 1/98)	TOTAL	
1) Comp. bio	d costs						
2) Machine Cost:		Cat D8 Gravel Truck Grader 14G	Reconstruct Reconstruct Reconstruct	> 1	s.17, s.21	\$997.50 \$429.00 \$211.00	
3) Labour							
Cos	st:		00				
4) Materials Cos	st:	Gravel	Reconstruct \$17			\$2,500.00	
			s.21				
5) Freight + Cos	materials only						
6) Engineeri	rig - if applicable						
TOTAL COST	T ESTIMATE		<u> </u>	(JULY 1.	1998)	\$4,137.50	
1. 2. 4. 6.	List each machine Freight and haula No GST to be incl Cost of designed	e employed and wor ge allowed for perm uded, PST is allowe and engineering for or more for other mo	anent type bridges (i.e., ste	el, concrete, o	or glu-lam).		
Resource Officer Engineering:			Date:				
			Signature	ē.			

CP 156

ENGINEERED CONSTRUCTION COST ESTIMATES				Page of	1	
LICENCE FL A18978	C.P.	156	Date:	09-Oct-01		
Name and/or Location:	Lower Luss	ier - South				
Description:	Road Deactivation for Sec 1					
Effective Date of Engineers	ed Estimate:	November 1,2	2001			
	TYPE	FUNCTION (Per Appraisal Manual)	HOURS	RATE/ HOUR (JULY 1/98)	TOTAL	
1) Comp. bid costs						
2) Machine Cost:	Cat D8 Cat 225	Deactivation  Deactivation		s.17, s.21	\$2,660.00 \$1,474.00	
3) Labour						
Cost:		05				
4) Materials		/				
Cost:						
5) Freight + haulage for materials only Cost:	Lowbed	MOB & DeMOB		s.17, s.21	\$646.00	
6) Engineering - if applicable						
TOTAL COST ESTIMATE			(JULY 1,		\$4,780.00	
List each machine     Freight and haula     No GST to be inc     Cost of designed	e employed and ge allowed for luded, PST is a and engineerin or more for othe	or Appraisal Manual for equipm d work performed, permanent type bridges (i.e., s allowed on materials, ig for log bridges not allowed, ( er more complex structures by	teel, concret	e, or glu-lam).	tes.	
Resource Officer Engineer	ing:	Signature		Date:		
CP 156				£.	10	

ENGINEERED CONSTRU	JON C	OST ESTIMATES	1	Page of	1	
LICENCE FL A18978	C.P.	156	Date:	9-Oct-01		
Name and/or Location:	Lower Lussier - South					
Description: Effective Date of Enginee		ment of Road runninate: November		e - 6 km		
	TYPE	FUNCTION (Per Appraisal Manu		RATE/ HOUR (JULY 1/98)	TOTAL	
1) Comp. bid costs					/	
2) Machine Cost:	Cat D8 Grader	Replacement of road running surface		s.17, s.21	\$6,650.00 \$3,376.00	
3) Labour Cost:		0,7				
4) Materials  Cost:	Gravel	Replacement of road running surface \$17.			\$7,230.00	
5) Freight + haulage for materials only  Cost:		.21				
6) Engineering - if applicable						
TOTAL COST ESTIMATE	(JULY 1, 1998) \$17,256.00					
<ol> <li>Refer to Appendix 1 of the Interior Appraisal Manual for equipment, labour and material rates.</li> <li>List each machine employed and work performed.</li> <li>Freight and haulage allowed for permanent type bridges (i.e., steel, concrete, or glu-lam).         No GST to be included, PST is allowed on materials.</li> <li>Cost of designed and engineering for log bridges not allowed. Cost of design, inspection and supervision for more for other more complex structures by a professional engineer not on salary may be allowed.</li> </ol>						
Resource Officer Engineering: Date:						

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file: 19-0020 A18978 CP 156.

#### Height Measurements in the RAM burn.

Aug. 99

3 areas surveyed (see maps):

Ram area: 4 recce lines 3.78 m avg.

Avg ht. (leader/total): 60cm/378cm

number trees over 3m tall/plot: 5.2 (plot multiplier = 200)

Inventory label:

layer 4

Se8Fd1BI1-7-1.2-18-20-3560/(99)(7)

layer 3

PI7Se1Fd1Lw1-10-3.5-18-20-1750/(99)(7)

layer 2

PI10-12-4.5-18-20-10/(99)(7)

Coyote area: 4 recce lines

3.0 m avg.

Avg ht. (leader/total): 51cm/300cm number trees over 3m tall/plot: 4.8

Inventory label:

layer 4

Se5Pl4Bl1-7-1.0-18-20-6020/(99)(7)

layer 3

PI10-10-3.0-20-4530/(99)(7)

3.0 m avg. Lussier area: 3 recce lines

Avg ht. (leader/total): 55cm/305cm/ number trees over 3m tall/plot: 4.5

Inventory label:

layer 4

PI10-7-1.2-18-20-453/(99)(7)

layer 3

PI10-10-3.0-18-20-2253/(99)(7)

Completed by John Brace and Jen Stalker, Aug. 26/99.

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Ram fire reger Leight.

Ram fire reger CFT SCOT 15/99.

SEPE SS

SEPE SS

STEPE.

