



## INTERIOR APPRAISAL DATA SUBMISSION

Licence A18700 Cutting Permit 731 Timber Mark EU9731 AND Effective Date 2020-07-01

OR ECAS ID 133588

### ACKNOWLEDGEMENTS

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

If the R.P.F. or R.F.T. is not a staff member of the Licensee, then the

**Licensee Representative is:**

Name: \_\_\_\_\_,

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Check if appropriate

☐ I certify that there have been no changes, to the data elements, specified operation or detailed engineering methodologies, or amendments to the cutting authority since the last appraisal or reappraisal.

☐ I certify that there are less than 2000 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 appraisal be extended.

Select one of the options below

- ☒ I certify I personally completed the work described herein.
- ☐ I certify that the work described herein fulfils the standards expected of a member of the Association of British Columbia Forest Professionals and that I did personally supervise the work.
- ☐ I certify that I have reviewed this document and, while I did not personally supervise the work described, I have determined that this work has been done to the standards expected of a member of the Association of British Columbia Forest Professionals.

**Registered Professional Forester/Registered Forest Technologist:**

Name: \_\_\_\_\_

R.P.F./R.F.T #: \_\_\_\_\_ Registered Forest Technologist: ☐

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

**Certification:** ☐ I certify that this cutting authority is complete and final with respect to changed circumstance reappraisal requirements in the Interior Appraisal Manual.

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

# INTERIOR APPRAISAL DATA SUBMISSION

## REFERENCE INFORMATION

Reference Timber Mark (Tied to:)	<u>EU9731</u>	ECAS Status:	<u>CON - Confirmed</u>
AAC:	<u>228534m3</u>		
Administrative Forest District:	<u>DCS - Cascades Natural Resource District</u>	Geographic Forest District:	<u>DCS - Cascades Natural Resource District</u>
Tenure Type:	<u>A01 - Forest Licence</u>		
NRFL Bonus Bid (\$/m <sup>3</sup> ):	<u></u>		
TSA:	<u>15 - Lillooet TSA</u>	TSB:	<u>15A - Lillooet TSA Block 1</u>

Appraisal Effective Date:	<u>2020-07-01</u>	Appraisal Expiry Date:	<u>2023-03-18</u>
Appraisal Type:	<input type="radio"/> New <input checked="" type="radio"/> Reappraisal		
Reappraisal Reason:	<u>Minister Directed</u>		
Point of Appraisal:	<u>CHSM - Chasm</u>	Comparative Cruise:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Stand Rate Eligibility:	Coniferous: <u>S - Sawlog Grades</u> Deciduous: <u>N - No Grades</u>		



# INTERIOR APPRAISAL DATA SUBMISSION

## Culverts

### Culverts (Tabulated)

Applicable Volume: 129931 m3

Circular Pipe Diameter (m)	Circular Pipe Length (m)	Number
1.0	10	1
1.2	10	4

# INTERIOR APPRAISAL DATA SUBMISSION

## Tabular Roads

### Tabular Road Construction (New)

Applicable Volume: 129933 m3

Road Identifier	Road Group	BEC Zone	Road Section Number	Road Type	Subgrade				Stabilizing Material			
					Section Length (km)	Soil Moisture	Side Slope (%) *	Rock (%) *	Stabilizing Required	Length (km)	Mat. Type (O, Q)	Distance to Source (km)

LT: CP 731 - 2	9 - Road Group 9	ESSF	9	L - Long Term	0.400	D	40	30	No			
----------------	------------------	------	---	---------------	-------	---	----	----	----	--	--	--

Total: 0.400

LT: CP 731 - 3	9 - Road Group 9	MS	2	L - Long Term	5.300	D	28	5	No			
----------------	------------------	----	---	---------------	-------	---	----	---	----	--	--	--

Total: 5.300

LT: CP 731 - 5	9 - Road Group 9	ESSF	5	L - Long Term	0.200	D	29	45	No			
----------------	------------------	------	---	---------------	-------	---	----	----	----	--	--	--

Total: 0.200

ST: CP 731 - 1	9 - Road Group 9	ESSF	6	S - Short Term	1.200	D	27	8	No			
----------------	------------------	------	---	----------------	-------	---	----	---	----	--	--	--

Total: 1.200

ST: CP 731 - 3	9 - Road Group 9	MS	3	S - Short Term	3.200	D	31	5	No			
----------------	------------------	----	---	----------------	-------	---	----	---	----	--	--	--

Total: 3.200

ST: CP 731 - 4	9 - Road Group 9	ESSF	4	S - Short Term	0.400	D	18	0	No			
----------------	------------------	------	---	----------------	-------	---	----	---	----	--	--	--

Total: 0.400

ST: CP 731 - 7	9 - Road Group 9	ESSF	7	S - Short Term	0.300	D	30	10	No			
----------------	------------------	------	---	----------------	-------	---	----	----	----	--	--	--

Total: 0.300

---

Grand Total: 11.000

# INTERIOR APPRAISAL DATA SUBMISSION

## Other Development

### Other Structures

Fencing: \_\_\_\_\_ 0 (in 100's of metres)

Log Debris Fencing: \_\_\_\_\_ 0 (in 100's of metres)

Number of Cattle Guards: \_\_\_\_\_ 0

Number of Single Pipeline Crossings: \_\_\_\_\_ 0

Number of Pipes Crossed in a Multiple Pipe Crossing: \_\_\_\_\_ 0

## Allocated Development

Identifier	Description	Cost Base Year of Original Cost	Original Cost (\$)	Trended Cost(\$)*	Applicable Volume (m3)
------------	-------------	---------------------------------------	--------------------	-------------------	---------------------------

\* Trended to the Cost Base of the current Manual

## Engineered Development

Identifier	Description	Cost Base Year of Original Cost	Original Cost (\$)	Trended Cost(\$)*	Applicable Volume (m3)	Amended
52863	ECE #1 - End Haul section	2016	18506.35	18506.35	129933	<input type="checkbox"/>
52864	ECE#2 - Road Reconstruction	2016	13692.50	13692.50	129933	<input type="checkbox"/>
52865	ECE #3 - End Haul section	2016	8389.15	8389.15	129933	<input type="checkbox"/>
52866	ECE# 4 - End haul section	2016	15977.05	15977.05	129933	<input type="checkbox"/>
52867	ECED#5 - Box Culvert	2016	7268.28	7268.28	129933	<input type="checkbox"/>

\* Trended to the Cost Base of the current Manual



# INTERIOR APPRAISAL DATA SUBMISSION

OPERATING COST INFORMATION	
Specified Operations	
Description	Rate \$/

Decked Volume:\_\_\_\_\_m³

Right-of-way Volume  
(external to block) \_\_\_\_\_m³

Right-of-way Area:  
(external to block) \_\_\_\_\_ha

Billing Type:

Scale-Based  
(sawlog only): ●

Cruise-Based  
(stand as a whole): ○

Check if:  
Upset is MPS70  
Upset is other than  
Upset is < VCU  
Must include a copy of the Executive Director's approval

<u>Upset*</u>	Rate (\$/m³) _____	Value (\$) _____
<u>Bonus</u>	Bid (\$/m³) _____	Offer(\$) _____

# INTERIOR APPRAISAL DATA SUBMISSION

## Control

### Forest District

# of issues:

TOA Eligible:

☒ Yes ☐ No

Was the Appraisal Data Field Checked:

☐ Yes ☒ No

Was this CP Check Cruised:

☐ Yes ☒ No

Appraisal Data Submission has been validated against FTA:



Silviculture Levy \$0.00

Development Levy \$0.00

Data Submission Reviewed By

Email

Date Submitted

Date Received

### Forest Region

Adjusted Quarterly:

☒ Yes ☐ No

# of issues:

MPS/CVP Differential: 0 \$/m3

TOA Miscellaneous Cost: 0

Reviewed By

Email

Date Sent To  
Region

Date Transferred  
to GAS

ECAS Status

CON - Confirmed

Certified Extended Date:

# INTERIOR APPRAISAL DATA SUBMISSION

## Cruise Information / Silviculture / Tree to Truck

### Cruise Information

**Total Net Coniferous Cruise Volume:** 129,931.0 m3    **CP Avg. Vol / Tree:** .37 m3/tree  
**Net Merchantable Area:** 346.7 ha    **CP Avg. Vol / ha:** 374.76 m3/ha  
**Gross Silviculture Area:** 346.7 ha    **CP Average Slope:** 37 %  
**Deciduous Volume (m3):** 2 m3    **CP Plots/Hectare:** 1.0 #/ha  
**Sampling Error % (at 2 stand.dev):** 6.4 %    **CP Trees/Plot:** 4.8 trees/plot  
**CP Cruise Date:** 2018-06 (YYYY-MM)\*

### Silviculture

#### Basic:

**BEC Zone:** ESSF    **SubZone:** dc    **Variant:** 1    %: 27  
**BEC Zone:** MS    **SubZone:** dv    **Variant:**           %: 73

#### Enhanced:

**Plan:**        %:  
**Plan:**        %:

Is the licensee responsible for basic silviculture?    Yes ☒    No ☐

Is Root Disease Control required?    Yes ☐    No ☒    Root Disease Control Cost:        \$

Species	Volume (m3)	Decay (%)	Stud Log (%)	LRF	Burn (%)
BA - Balsam	16321	20	56	147	0
FI - Fir	2	1	51	175	0
LO - Lodge-Pine	53355	6	65	146	0
SP - Spruce	60253	13	35	191	0

**Total**    129931

Insect Damage Type	Volume (m3)
Gray Attack	21021
Green Attack	1421
Red Attack	169
Other Insects	39216

**Tree to Truck**

Distance to Support Centre:

131 km (one way)

	Conventional		Overhead Cable			Other Systems		
	Ground Skidding		Highlead / Grapple		Skyline	Helicopter		Horse
	Clear Cut	Partial Cut	Clear Cut	Partial Cut		Clear Cut	Partial Cut	
Vol. To be harvested (m3)	129933							
Lodgepole Pine Vol. (m3)								
Hemlock Vol. (m3)								
Spruce Volume (m3)								
Biogeoclimatic zone	MS							
Net volume / tree (m3)	.37							
Volume / hectare (m3)	375							
Stand defect (%)	24							
Partial cut (%)								
Average slope (%)	37							
Blowdown (%)	5							
Heavy fire damage (%)	0							
Dead useless snags (%)	1							
Skyline Yarding Dist. (m)								
Heli Yarding Dist. (km)								
Uphill Yarding?						<input type="checkbox"/>	<input type="checkbox"/>	

# INTERIOR APPRAISAL DATA SUBMISSION

## Attachments

If submitting attachments as a single zip file, submit below.

Please check off below what attachments are contained in the zip file.

Attach File:

<input type="checkbox"/> Appraisal Map	<input type="checkbox"/> Comparative Cruise Info. as per Cruising Manual	<input type="checkbox"/> Detailed Cycle Time Calculation
<input type="checkbox"/> Cruise Compilation	<input type="checkbox"/> Amendments to Original Cruise Compilation	<input type="checkbox"/> Engineered Estimates Detailed Calculations and Support Info.
<input type="checkbox"/> Percent Rock Calculation	<input type="checkbox"/> Specified Operations Detailed Calculations and Support Info.	<input type="checkbox"/> Road Use Charges (copy of approved document)
<input type="checkbox"/> Extended Amortization Detailed Agreement	<input type="checkbox"/> Allocated Development Detailed Calculations	<input type="checkbox"/> BCTS Application in Tender (FS574)
<input type="checkbox"/> Miscellaneous		

If attaching individually, submit below.

If the item applies to this appraisal then the attachment must be included or paper copy submitted to the District.

	Electronic (Attached)	Paper Copy to Follow	NA	Attachment
Appraisal Map	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Comparative Cruise Info. as per Cruising Manual	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Detailed Cycle Time Calculation	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Cruise Compilation	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Amendements to Original Cruise Compilation	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Engineered Estimates Detailed Calculations and Support Info.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Percent Rock Calculation	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Specified Operations Detailed Calculations and Support Info.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Road Use Charges (copy of approved document)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Extended Amortization Detailed Agreement	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Allocated Development Detailed Calculations	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
BCTS Application in Tender (FS574)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	

	Electronic (Attached)	Paper Copy to Follow	NA	Attachment
No Description Available	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	



# Ministry of Forests, Lands, and Natural Resource Operations

Timber Mark: EU9731

Rate Effective Date: 2020-07-01  
Appraisal Status: Confirmed  
Date: 2020-10-20

## Interior Market Pricing System Stumpage Rate Details

### General Information

Licensee:	ASPEN PLANERS LTD.	Appraisal Effective Date:	2020-07-01
Client Number:	00185478	Appraisal Expiry Date:	2023-03-18
License:	A18700	Appraisal Type:	Reappraisal
Cutting Permit:	731	Rate Adjustment Type:	Adjustable
Ecas Id:	133588	TOA:	Y
Annual Allowable Cut:	228534	Discount Factor:	0
Forest District:	Cascades Natural Resource District	Selling Price Zone / LRF:	8
Tenure Type:	A01 - Forest Licence	Rate Override:	N
TSA/TFL:	Lillooet TSA	Ground Skid CC Volume:	129,933
TSB:	Lillooet TSA Block 1	Overhead Cable CC Volume:	0
		Helicopter CC Volume:	0

### Rate Summary

<u>Appraised Rate</u>	<u>Amount</u> <u>(\$/m3)</u>
Preliminary Estimated Winning Bid	27.93
Specified Operations	0.00
Final Estimated Winning Bid	27.93
Discount	0.00
Discounted FEWB	27.93
Transition Adjustment	0.00
Tenure Obligation Adjustment	28.04
Indicated Rate	(0.11)
Reserve Rate	0.25
Silviculture Levy	0.00
Development Levy	0.00
Upset Stumpage Rate	0.25
Bonus Bid	
NRFL Bonus Bid	
<b>Total Stumpage Rate</b>	<b>0.25</b>





# Ministry of Forests, Lands, and Natural Resource Operations

Timber Mark: EU9731

Rate Effective Date: 2020-07-01  
Appraisal Status: Confirmed  
Date: 2020-10-20

## Selling Price Summary

	<u>BA</u>	<u>CE</u>	<u>HE</u>	<u>FI</u>	<u>LA</u>	<u>LO</u>	<u>SP</u>	<u>WH</u>	<u>YE</u>
Cruise LRF (fbm/m3)	147			175		146	191		
Appraisal LRF (fbm/m3)	277			281		295	328		
Average Market Value (\$/mbm)	414			422		414	414		
Species Volume (m3)	16321			2		53355	60253		
Species Selling Price (\$/m3)	114.68			118.58		122.13	135.79		
<b>Stand Selling Price (\$/m3):</b>									127.53

## Final Estimated Winning Bid Summary

<u>Variable</u>	<u>Contribution</u>	<u>Variable</u>	<u>Contribution</u>
Balsam	-0.79	Blowdown	0.00
Camp	0.00	Cruise Based	0.00
Cedar	0.00	Constant	15.23
Cycle Time	-28.12	Coniferous Volume	9.84
Cable Yarding	0.00	Deciduous	0.00
Deck	0.00	Decay	0.00
Douglas Fir Yellow Pine	0.00	Exchange Rate	-31.25
Fire Damage	0.00	Fort Nelson	0.00
Gray Attack	0.00	Ground Skid Slope	-6.79
Hemlock	0.00	Harvest Volume	15.13
Isolated	-1.15	ln(Volume Per Tree)	-7.86
Latest Year	4.47	Larch Yellow Pine	0.00
# of Bidders	6.89	Other Attack	-10.64
Partial Cut Between 20-30 Percent	0.00	Partial Cut	0.00
Real Stand Selling Price	64.73	Side Slope	-1.58
Preliminary Estimated Winning Bid			28.11
EWB Adjusted			28.11
CPIF Adjusted			27.93
Specified Operations			0.00
<b>Final Estimated Winning Bid</b>			<b>27.93</b>

Timber Mark: EU9731

Rate Effective Date: 2020-07-01

Appraisal Status: Confirmed

Date: 2020-10-20

### Specified Operations Summary

<u>Item</u>	<u>Cost</u>	<u>Item</u>	<u>Cost</u>
Barge (Crew)	0.00	Barge (Logs)	0.00
Barge (Truck Haul)	0.00	Dewater and Reload	0.00
Dump and Boom	0.00	Helicopter	0.00
High Development	0.00	Horse	0.00
Lake Tow	0.00	Miscellaneous	0.00
Rail Log Transportation	0.00	Skyline	0.00
Truck to Rail Transfer	0.00	Uneven Aged Management	0.00
		Total Specified Operations	0.00
		Trended	0.00
		<b>CPI Adjusted</b>	<b>0.00</b>
		<b>Final (Grossed-up)</b>	<b>0.00</b>

### Tenure Obligation Adjustment Summary

<u>Item</u>	<u>Cost</u>
Administration	9.08
Development	2.04
Road Management	7.91
Silviculture	3.25
Miscellaneous	0.00
Total Tenure Obligation Adjustment	22.28
Trended	22.28
CPI Adjusted	23.07
Low Grade Gross-up	28.85
Return to Forest Management Amount	1.24
Market Logger Road Cost	-2.05
Final Tenure Obligation Adjustment	28.04

Timber Mark: EU9731

Rate Effective Date: 2020-07-01

Appraisal Status: Confirmed

Date: 2020-10-20

### Tenure Obligation Adjustment Details

#### Low Grade Number

	<u>BA</u>	<u>CE</u>	<u>FI</u>	<u>HE</u>	<u>LA</u>	<u>LO</u>	<u>SP</u>	<u>WH</u>	<u>YE</u>
Stand Volume	16,321		2		53,355	60,253			
Low Grade %	2.97		0.00		10.30	6.76			
Stand Low Grade Percent:									20.03

#### Administration

Forest Management Administration	9.08
Low Volume Cost Estimate	0.00

#### Road Development Costs

##### Tabular Roads

Applicable Volume: 129,933

Road ID	Section ID	Length (km)	Subgrade Cost (\$)	Stabilizing Cost (\$)	Cost per KM (\$)	Applicable Cost (\$)
LT: CP 731 - 2	9	0.400	7,738.40	0.00	19,346.00	
<b>Total:</b>		<b>0.400</b>	<b>7,738.40</b>	<b>0.00</b>	<b>19,346.00</b>	<b>7,738.28</b>
LT: CP 731 - 3	2	5.300	102,533.80	0.00	19,346.00	
<b>Total:</b>		<b>5.300</b>	<b>102,533.80</b>	<b>0.00</b>	<b>19,346.00</b>	<b>102,532.22</b>
LT: CP 731 - 5	5	0.200	3,869.20	0.00	19,346.00	
<b>Total:</b>		<b>0.200</b>	<b>3,869.20</b>	<b>0.00</b>	<b>19,346.00</b>	<b>3,869.14</b>
ST: CP 731 - 1	6	1.200	11,217.60	0.00	9,348.00	
<b>Total:</b>		<b>1.200</b>	<b>11,217.60</b>	<b>0.00</b>	<b>9,348.00</b>	<b>11,217.43</b>
ST: CP 731 - 3	3	3.200	29,913.60	0.00	9,348.00	
<b>Total:</b>		<b>3.200</b>	<b>29,913.60</b>	<b>0.00</b>	<b>9,348.00</b>	<b>29,913.14</b>
ST: CP 731 - 4	4	0.400	3,739.20	0.00	9,348.00	
<b>Total:</b>		<b>0.400</b>	<b>3,739.20</b>	<b>0.00</b>	<b>9,348.00</b>	<b>3,739.14</b>
ST: CP 731 - 7	7	0.300	2,804.40	0.00	9,348.00	
<b>Total:</b>		<b>0.300</b>	<b>2,804.40</b>	<b>0.00</b>	<b>9,348.00</b>	<b>2,804.36</b>
<b>Grand Total:</b>		<b>11.000</b>	<b>161,816.20</b>	<b>0.00</b>	<b>14,710.56</b>	<b>161,813.71</b>

Timber Mark: EU9731

Rate Effective Date: 2020-07-01  
Appraisal Status: Confirmed  
Date: 2020-10-20

**Tabular Culverts**
**Applicable Volume:** 129,931

<u>Pipe Diameter (m)</u>	<u>Pipe Length (m)</u>	<u>Number</u>	<u>Cost (\$)</u>
1.2	10	4	13,968.00
1.0	10	1	2,491.00
<b>Cost Estimate</b>			<b>16,459.00</b>
<b>Applicable Cost Estimate</b>			<b>16,459.00</b>

**Engineered Roads**

<u>ID - Description</u>	<u>Trended Cost (\$)</u>	<u>Applicable Volume (m3)</u>	<u>Applicable Cost (\$)</u>
52863 - ECE #1 - End Haul section	18,506.35	129,933	18,506.07
52864 - ECE#2 - Road Reconstruction	13,692.50	129,933	13,692.29
52865 - ECE #3 - End Haul section	8,389.15	129,933	8,389.02
52866 - ECE# 4 - End haul section	15,977.05	129,933	15,976.80
52867 - ECED#5 - Box Culvert	7,268.28	129,933	7,268.17
<b>Cost Estimate</b>			<b>63,832.35</b>

**Allocated Roads**

<u>ID - Description</u>	<u>Trended Cost (\$)</u>	<u>Applicable Volume (m3)</u>	<u>Applicable Cost (\$)</u>
<b>Cost Estimate</b>			

**Fencing, Cattle Guard, and Pipeline Crossings**

	<u>Number</u>	<u>Cost (\$)</u>
Fencing (100's metres)	0	0
Cattle Guards	0	0
Pipeline Crossings		
Single	0	0
Multiple	0	0
Pipeline Total:		0
<b>Cost Estimate</b>		<b>0</b>

---

<b>Total Road Development Cost Estimate</b>	<b>242,105.06</b>
<b>Total Road Development Cost Estimate (m3)</b>	<b>2.04</b>



## Ministry of Forests, Lands, and Natural Resource Operations

Timber Mark: EU9731

Rate Effective Date: 2020-07-01  
Appraisal Status: Confirmed  
Date: 2020-10-20

---

### Road Management

---

Road Management	4.41
Road and Land Use Charges	3.50

---

### Silviculture

---

Basic Silviculture Cost	3.25
Enhanced Silviculture Cost	
Root Disease Control	0.00
CAPCUT Percent	80

---

End of Report



# Ministry of Forests, Lands, and Natural Resource Operations

Timber Mark: EU9731

Rate Effective Date: 2020-10-01  
Appraisal Status: Confirmed  
Date: 2020-10-20

## Interior Market Pricing System Stumpage Rate Details

### General Information

Licensee:	ASPEN PLANERS LTD.	Appraisal Effective Date:	2020-07-01
Client Number:	00185478	Appraisal Expiry Date:	2023-03-18
License:	A18700	Appraisal Type:	Reappraisal
Cutting Permit:	731	Rate Adjustment Type:	Adjustable
Ecas Id:	133588	TOA:	Y
Annual Allowable Cut:	228534	Discount Factor:	0
Forest District:	Cascades Natural Resource District	Selling Price Zone / LRF:	8
Tenure Type:	A01 - Forest Licence	Rate Override:	N
TSA/TFL:	Lillooet TSA	Ground Skid CC Volume:	129,933
TSB:	Lillooet TSA Block 1	Overhead Cable CC Volume:	0
		Helicopter CC Volume:	0

### Rate Summary

<u>Appraised Rate</u>	<u>Amount</u> <u>(\$/m3)</u>
Preliminary Estimated Winning Bid	22.13
Specified Operations	0.00
Final Estimated Winning Bid	22.13
Discount	0.00
Discounted FEWB	22.13
Transition Adjustment	0.00
Tenure Obligation Adjustment	28.34
Indicated Rate	(6.21)
Reserve Rate	0.25
Silviculture Levy	0.00
Development Levy	0.00
Upset Stumpage Rate	0.25
Bonus Bid	
NRFL Bonus Bid	
<b>Total Stumpage Rate</b>	<b>0.25</b>





# Ministry of Forests, Lands, and Natural Resource Operations

Timber Mark: EU9731

Rate Effective Date: 2020-10-01  
Appraisal Status: Confirmed  
Date: 2020-10-20

## Selling Price Summary

	<u>BA</u>	<u>CE</u>	<u>HE</u>	<u>FI</u>	<u>LA</u>	<u>LO</u>	<u>SP</u>	<u>WH</u>	<u>YE</u>
Cruise LRF (fbm/m3)	147			175		146	191		
Appraisal LRF (fbm/m3)	277			281		295	328		
Average Market Value (\$/mbm)	400			460		400	400		
Species Volume (m3)	16321			2		53355	60253		
Species Selling Price (\$/m3)	110.8			129.26		118	131.2		
Stand Selling Price (\$/m3):									123.22

## Final Estimated Winning Bid Summary

<u>Variable</u>	<u>Contribution</u>	<u>Variable</u>	<u>Contribution</u>
Balsam	-0.79	Blowdown	0.00
Camp	0.00	Cruise Based	0.00
Cedar	0.00	Constant	15.23
Cycle Time	-28.12	Coniferous Volume	9.84
Cable Yarding	0.00	Deciduous	0.00
Deck	0.00	Decay	0.00
Douglas Fir Yellow Pine	0.00	Exchange Rate	-31.45
Fire Damage	0.00	Fort Nelson	0.00
Gray Attack	0.00	Ground Skid Slope	-6.79
Hemlock	0.00	Harvest Volume	13.69
Isolated	-1.15	ln(Volume Per Tree)	-7.86
Latest Year	4.47	Larch Yellow Pine	0.00
# of Bidders	6.89	Other Attack	-10.64
Partial Cut Between 20-30 Percent	0.00	Partial Cut	0.00
Real Stand Selling Price	61.86	Side Slope	-1.58
Preliminary Estimated Winning Bid			23.60
EWB Adjusted			22.03
CPIF Adjusted			22.13
Specified Operations			0.00
Final Estimated Winning Bid			22.13

Timber Mark: EU9731

Rate Effective Date: 2020-10-01

Appraisal Status: Confirmed

Date: 2020-10-20

### Specified Operations Summary

<u>Item</u>	<u>Cost</u>	<u>Item</u>	<u>Cost</u>
Barge (Crew)	0.00	Barge (Logs)	0.00
Barge (Truck Haul)	0.00	Dewater and Reload	0.00
Dump and Boom	0.00	Helicopter	0.00
High Development	0.00	Horse	0.00
Lake Tow	0.00	Miscellaneous	0.00
Rail Log Transportation	0.00	Skyline	0.00
Truck to Rail Transfer	0.00	Uneven Aged Management	0.00
		Total Specified Operations	0.00
		Trended	0.00
		<b>CPI Adjusted</b>	<b>0.00</b>
		<b>Final (Grossed-up)</b>	<b>0.00</b>

### Tenure Obligation Adjustment Summary

<u>Item</u>	<u>Cost</u>
Administration	9.08
Development	2.04
Road Management	7.91
Silviculture	3.25
Miscellaneous	0.00
Total Tenure Obligation Adjustment	22.28
Trended	22.28
CPI Adjusted	23.32
Low Grade Gross-up	29.16
Return to Forest Management Amount	1.25
Market Logger Road Cost	-2.07
Final Tenure Obligation Adjustment	28.34



Timber Mark: EU9731

Rate Effective Date: 2020-10-01  
Appraisal Status: Confirmed  
Date: 2020-10-20

### Tenure Obligation Adjustment Details

#### Low Grade Number

	<u>BA</u>	<u>CE</u>	<u>FI</u>	<u>HE</u>	<u>LA</u>	<u>LO</u>	<u>SP</u>	<u>WH</u>	<u>YE</u>
Stand Volume	16,321		2		53,355	60,253			
Low Grade %	2.97		0.00		10.30	6.76			
Stand Low Grade Percent:									20.03

#### Administration

Forest Management Administration	9.08
Low Volume Cost Estimate	0.00

#### Road Development Costs

##### Tabular Roads

Applicable Volume: 129,933

<u>Road ID</u>	<u>Section ID</u>	<u>Length (km)</u>	<u>Subgrade Cost (\$)</u>	<u>Stabilizing Cost (\$)</u>	<u>Cost per KM (\$)</u>	<u>Applicable Cost (\$)</u>
LT: CP 731 - 2	9	0.400	7,738.40	0.00	19,346.00	
<b>Total:</b>		<b>0.400</b>	<b>7,738.40</b>	<b>0.00</b>	<b>19,346.00</b>	<b>7,738.28</b>
LT: CP 731 - 3	2	5.300	102,533.80	0.00	19,346.00	
<b>Total:</b>		<b>5.300</b>	<b>102,533.80</b>	<b>0.00</b>	<b>19,346.00</b>	<b>102,532.22</b>
LT: CP 731 - 5	5	0.200	3,869.20	0.00	19,346.00	
<b>Total:</b>		<b>0.200</b>	<b>3,869.20</b>	<b>0.00</b>	<b>19,346.00</b>	<b>3,869.14</b>
ST: CP 731 - 1	6	1.200	11,217.60	0.00	9,348.00	
<b>Total:</b>		<b>1.200</b>	<b>11,217.60</b>	<b>0.00</b>	<b>9,348.00</b>	<b>11,217.43</b>
ST: CP 731 - 3	3	3.200	29,913.60	0.00	9,348.00	
<b>Total:</b>		<b>3.200</b>	<b>29,913.60</b>	<b>0.00</b>	<b>9,348.00</b>	<b>29,913.14</b>
ST: CP 731 - 4	4	0.400	3,739.20	0.00	9,348.00	
<b>Total:</b>		<b>0.400</b>	<b>3,739.20</b>	<b>0.00</b>	<b>9,348.00</b>	<b>3,739.14</b>
ST: CP 731 - 7	7	0.300	2,804.40	0.00	9,348.00	
<b>Total:</b>		<b>0.300</b>	<b>2,804.40</b>	<b>0.00</b>	<b>9,348.00</b>	<b>2,804.36</b>
<b>Grand Total:</b>		<b>11.000</b>	<b>161,816.20</b>	<b>0.00</b>	<b>14,710.56</b>	<b>161,813.71</b>

Timber Mark: EU9731

Rate Effective Date: 2020-10-01  
Appraisal Status: Confirmed  
Date: 2020-10-20

**Tabular Culverts**
**Applicable Volume:** 129,931

<u>Pipe Diameter (m)</u>	<u>Pipe Length (m)</u>	<u>Number</u>	<u>Cost (\$)</u>
1.2	10	4	13,968.00
1.0	10	1	2,491.00
<b>Cost Estimate</b>			<b>16,459.00</b>
<b>Applicable Cost Estimate</b>			<b>16,459.00</b>

**Engineered Roads**

<u>ID - Description</u>	<u>Trended Cost (\$)</u>	<u>Applicable Volume (m3)</u>	<u>Applicable Cost (\$)</u>
52863 - ECE #1 - End Haul section	18,506.35	129,933	18,506.07
52864 - ECE#2 - Road Reconstruction	13,692.50	129,933	13,692.29
52865 - ECE #3 - End Haul section	8,389.15	129,933	8,389.02
52866 - ECE# 4 - End haul section	15,977.05	129,933	15,976.80
52867 - ECED#5 - Box Culvert	7,268.28	129,933	7,268.17
<b>Cost Estimate</b>			<b>63,832.35</b>

**Allocated Roads**

<u>ID - Description</u>	<u>Trended Cost (\$)</u>	<u>Applicable Volume (m3)</u>	<u>Applicable Cost (\$)</u>
<b>Cost Estimate</b>			

**Fencing, Cattle Guard, and Pipeline Crossings**

	<u>Number</u>	<u>Cost (\$)</u>
Fencing (100's metres)	0	0
Cattle Guards	0	0
Pipeline Crossings		
Single	0	0
Multiple	0	0
Pipeline Total:		0
<b>Cost Estimate</b>		<b>0</b>

---

<b>Total Road Development Cost Estimate</b>	<b>242,105.06</b>
<b>Total Road Development Cost Estimate (m3)</b>	<b>2.04</b>



## Ministry of Forests, Lands, and Natural Resource Operations

Timber Mark: EU9731

Rate Effective Date: 2020-10-01  
Appraisal Status: Confirmed  
Date: 2020-10-20

---

### Road Management

---

Road Management	4.41
Road and Land Use Charges	3.50

---

### Silviculture

---

Basic Silviculture Cost	3.25
Enhanced Silviculture Cost	
Root Disease Control	0.00
CAPCUT Percent	80

---

End of Report