License	Cutting Permit	Cut Block	Timber Mark	End Cat
A19202	81	BS201	EA2081	N

Type Strm	Area (Ha)
DC2L	6.62

SP	Waste Class	Kind	Grade Volumes (m3) Grd M or better	Grd U	Grd W	Grd X	Grd Y	(m3) / Ha Grd M or better	Grd U	Grd W	Grd X	Grd Y
BI	Avoid	Log	0.0	0.0	25.13	0.0	14.9	0.0	0.0	3.80	0.0	2.3
		Waste Class Total	**0.0**	**0.0**	**25.13**	**0.0**	**14.9**	**0.0**	**0.0**	**3.80**	**0.0**	**2.3**
		Species Class Total	**0.0**	**0.0**	**25.13**	**0.0**	**14.9**	**0.0**	**0.0**	**3.80**	**0.0**	**2.3**
CE	Avoid	Log	40.3	0.0	0.00	16.9	0.0	6.1	0.0	0.00	2.6	0.0
		Waste Class Total	**40.3**	**0.0**	**0.00**	**16.9**	**0.0**	**6.1**	**0.0**	**0.00**	**2.6**	**0.0**
		Species Class Total	**40.3**	**0.0**	**0.00**	**16.9**	**0.0**	**6.1**	**0.0**	**0.00**	**2.6**	**0.0**
FI	Avoid	Bucking Waste	2.9	2.0	0.00	0.0	0.0	0.4	0.3	0.00	0.0	0.0
		Log	0.0	20.1	0.00	12.1	0.0	0.0	3.0	0.00	1.8	0.0
		Stump	1.3	0.7	0.00	0.0	0.0	0.2	0.1	0.00	0.0	0.0
		Waste Class Total	**4.2**	**22.9**	**0.00**	**12.1**	**0.0**	**0.6**	**3.5**	**0.00**	**1.8**	**0.0**
		Species Class Total	**4.2**	**22.9**	**0.00**	**12.1**	**0.0**	**0.6**	**3.5**	**0.00**	**1.8**	**0.0**
HE	Avoid	Log	0.0	14.4	0.00	65.6	0.0	0.0	2.2	0.00	9.9	0.0
		Waste Class Total	**0.0**	**14.4**	**0.00**	**65.6**	**0.0**	**0.0**	**2.2**	**0.00**	**9.9**	**0.0**
		Species Class Total	**0.0**	**14.4**	**0.00**	**65.6**	**0.0**	**0.0**	**2.2**	**0.00**	**9.9**	**0.0**
MA	Avoid	Log	0.0	0.0	97.49	0.0	98.6	0.0	0.0	14.73	0.0	14.9
		Waste Class Total	**0.0**	**0.0**	**97.49**	**0.0**	**98.6**	**0.0**	**0.0**	**14.73**	**0.0**	**14.9**
		Species Class Total	**0.0**	**0.0**	**97.49**	**0.0**	**98.6**	**0.0**	**0.0**	**14.73**	**0.0**	**14.9**
All Species		Avoid	44.5	37.3	122.62	94.6	113.5	6.7	5.6	18.52	14.3	17.1
		Type Stratum Total	**44.5**	**37.3**	**122.62**	**94.6**	**113.5**	**6.7**	**5.6**	**18.52**	**14.3**	**17.1**

Waste205 - Ocular Estimate

Back

Reporting Unit ID:	18578	**Forest District:**	DCK - Chilliwack Natural Resource Dist
Licensee:	606546BC 00	**Option:**	Ocular
Dispersed CV (%):		**Accumulated CV (%):**	
Licence No:	A19202	**Cutting Permit:**	81
Block:	BS201	**Timber Mark:**	EA2081
WASTE Block Status:	OREJ - Office Rejected	**Exempted Block:**	N
Harvest Status:	Complete		
Stratum:	SCOX		

14 rows returned

Piece #	Sp.	Kind	Waste Class	Grade	Estimate (m^3/ha)	Estimate Volume (m^3)		
	*	*	A *	*			Save	Cancel
1	BI	L	A	W	3.8	0.800	Update	Delete
2	BI	L	A	Y	2.3	0.500	Update	Delete
3	CE	L	A	J	6.1	1.200	Update	Delete
4	CE	L	A	X	2.6	0.500	Update	Delete
5	FI	W	A	J	0.4	0.100	Update	Delete
6	FI	W	A	U	0.3	0.100	Update	Delete
7	FI	L	A	U	3.0	0.600	Update	Delete
8	FI	L	A	X	1.8	0.400	Update	Delete
9	FI	S	A	J	0.2	0.000	Update	Delete
10	FI	S	A	U	0.1	0.000	Update	Delete
11	HE	L	A	U	2.2	0.400	Update	Delete
12	HE	L	A	X	9.9	2.000	Update	Delete
13	MA	L	A	W	14.7	2.900	Update	Delete
14	MA	L	A	Y	14.9	3.000	Update	Delete

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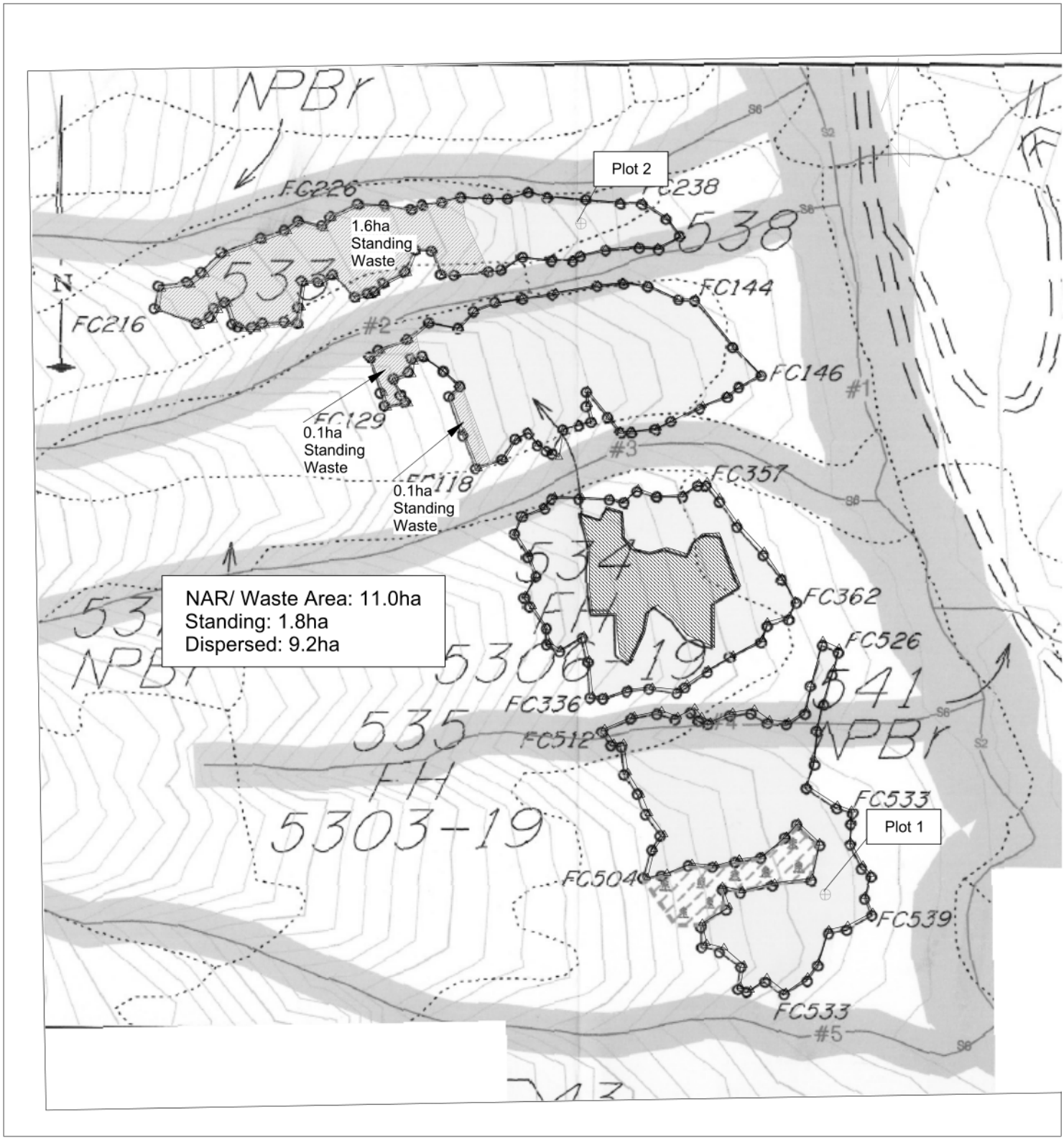
Waste Plan Map - Tamihi Logging Co. Ltd.

Licensee: 606546 BC Ltd.
License #: A19202
TSA: Fraser
Region: Vancouver
District: Chilliwack
Location: Sumallo River
Drawn By: Mark Tressel
Maturity: Immature

Scale: 1: 5,000
Cutting Permit: 46
Cutblock: HP4503
Net Area: 11.0 ha
Date: July 19, 2013



From:	Mark Tressel
To:	Logue, Carissa FLNR:EX
Subject:	RE: Sumallo Heli Waste - blk HP4503 - RU 17222
Date:	Monday, April 27, 2015 3:06:06 PM

Okay

From: Logue, Carissa FLNR:EX [mailto:Carissa.Logue@gov.bc.ca]
Sent: Monday, April 27, 2015 3:01 PM
To: 'Mark Tressel'
Subject: RE: Sumallo Heli Waste - blk HP4503 - RU 17222

If we are going back that far (to a different licence holder) you should stick with 100% CV for start up.

Carissa Logue, RFT
Resource Technologist Specialist - Timber Pricing
Ministry of Forests, Lands and Natural Resource Operations
Chilliwack District
E-mail: Carissa.Logue@gov.bc.ca
Tel: (604) 702-5710 Fax: (604) 702-5711
https://www.for.gov.bc.ca/dck/

From: Mark Tressel [mailto:mark.tamihilog@shaw.ca]
Sent: Monday, April 27, 2015 2:53 PM
To: Logue, Carissa FLNR:EX
Subject: RE: Sumallo Heli Waste - blk HP4503 - RU 17222

Hi Carissa,
I think you would have to go back to 2007 or 2006 (before Dorman owned A19202) to get any cutblock option heli-blocks. Reporting Unit 1869 for block SK6110 was the largest heli-block surveyed in 2006 and it was also a clearcut. Most of the other heliblocks done in that era were selective harvest.
Thanks,
Mark

From: Logue, Carissa FLNR:EX [mailto:Carissa.Logue@gov.bc.ca]
Sent: Monday, April 27, 2015 2:08 PM
To: 'Mark Tressel'
Subject: RE: Sumallo Heli Waste - blk HP4503 - RU 17222

Hi Mark,
I haven't looked in the waste system but I don't recall you having a reporting unit started for heli that isn't ocular? If this is the case you will need to use 100% CV for start up until you get some stats built up.
Let me know if there are any reporting units or stats that you have in the system that would support you using a lower CV.
Thanks,

Carissa Logue, RFT
Resource Technologist Specialist - Timber Pricing
Ministry of Forests, Lands and Natural Resource Operations
Chilliwack District
E-mail: Carissa.Logue@gov.bc.ca
Tel: (604) 702-5710 Fax: (604) 702-5711
https://www.for.gov.bc.ca/dck/

From: Mark Tressel [mailto:mark.tamihilog@shaw.ca]
Sent: Monday, April 27, 2015 1:51 PM

To: Logue, Carissa FLNR:EX
Subject: Sumallo Heli Waste - blk HP4503 - RU 17222
Hi Carissa,
It sounds like we will be doing a cutblock survey on block HP4503 in Sumallo now. I just wanted to check first if you are okay with using a 70% CV% for this block, before we go out there and complete the plots. I have attached a proposed survey map with 4 dispersed plots.
Thanks,

Mark Tressel, RFT
Tamihi Logging Co. Ltd.
42255 Arnold Road
Chilliwack, B.C.
V2R 4H8
phone: 604-823-4830 (ext. 109)
cellular: s.22
fax: 604-823-7150
email: mark.tamihilog@shaw.ca

From:	Logue, Carissa FLNR:EX
To:	"Mark Tressel"
Subject:	RE: Waste Questions
Date:	Monday, October 20, 2014 2:00:00 PM
Attachments:	Variable Retention Post Harvest Assessment best practices.docx

Hello,

I've put my comments below. There are a couple things we should probably talk over specific to dispersed retention since we need to come to an agreement on how to deal with these old blocks. Give me a call if you have questions – I should be in the office all this week ☺

Thanks!

Carissa Logue, RFT
Resource Technologist Specialist - Timber Pricing
Ministry of Forests, Lands and Natural Resource Operations
Chilliwack District
E-mail: Carissa.Logue@gov.bc.ca
Tel: (604) 702-5710 Fax: (604) 702-5711
http://www.for.gov.bc.ca/dck/

From: Mark Tressel [mailto:mark.tamihilog@shaw.ca]
Sent: Friday, October 17, 2014 3:06 PM
To: Logue, Carissa FLNR:EX
Subject: Waste Questions

Hi Carissa,

I have just done a review of our recent waste submissions and have a few questions about some of the blocks that have issues:

For RU 18418 block BS121, I see that you have rejected the survey and asked for sample plots to support the ocular estimate. Do you mean you want a full resurvey (ocular)? If so, do you suggest we stick with Stan's stratification or should we leave the dispersed un-stratified?

For this survey, I'm not sure how Stan came up with his numbers, so some plots need to be put in the field to establish a baseline for the ocular estimate. I think that is what you mean by full re-survey (ocular) which is what I need to get some comfort with the numbers in the system. When you are doing the re-survey you can make a call on whether two stratums would be appropriate for the dispersed.

For RU 18578 block BS201, the comment is that the ocular estimate doesn't match details from the first waste submission for the block (RU16667). I ran the block type summary for RU16667 and it looks to me like all of the m3/ha numbers match perfectly to what is reported in RU18578 for the remaining area. Could you please clarify what you mean?

I was looking at the report for all the stratums. If the new area is only dispersed then that is ok to submit it as is. It doesn't look like the roadside area is that big, so go ahead and resubmit.

For RU 17221 block CH745, it seems like you might have crunched some numbers for this. Do you have some numbers worked out already for what you would expect us to declare for surplus retention/ waste from within that retention patch?

Based on my findings from the field – I saw approximately 60 stems on the east side of BR745A and about 11 stems between Br745A and the group retention area, I didn't see any dispersed retention below the group retention area. The schedule B has 150-194 trees to be retained greater than or equal to 42.5 cm dbh. The retention patch had one cruise plot in it (9) and I completed two counts plot as well. Doing a comp with these numbers I got well over the Schedule B amount (all figures for the block are anywhere between 1100-1900 SPH depending on how you compile). We need to come to an agreement on a number for what appears to be a surplus of trees.

For RU17222 block HP4503, would it be an option to go with the district average for helicopter logging for this cutblock?

Region advised me that we can't use the district average for helicopter logging as this is not supported in the manual. Therefore a survey (not ocular) needs to be completed.

For RU17635 block 2015, I thought you were going to look into it and get back to us with standards or guidelines on how to survey the partial harvest corridors. Do you have any suggestions on how we should survey it?

I've attached the best practices document to this e-mail for reference. For blocks with dispersed retention, you need to stratify out the dispersed retention stratum from the rest of the TUs in the block and figure out if any standing timber meets or exceeds the Schedule B targets for retention. Since this block was corridor logged, we can talk about putting the "strips" into the dispersed (which is technically incorrect), however, the standing timber that is left needs to be compared to the schedule B for treatment unit C. Based on an analysis of the area using the logged area (0.2 ha {9.24BA} out of 2.3 ha {106.26 BA}) it appears the schedule B target has been exceeded {=91% retention}. Otherwise, the strips need 2 plots (you might need to go rectangular or use more smaller plots) and a minimum of 2 plots need to get put in the standing timber to figure out how much is left. You'd shrink down the grid in the dispersed retention section until you get your required number of plots for that stratum.

Thanks,

Mark Tressel, RFT
Tamihi Logging Co. Ltd.
42255 Arnold Road
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V2R 4H8
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cellular: s.22
fax: 604-823-7150
email: mark.tamihilog@shaw.ca

Variable Retention Waste Survey and Post Harvest Assessment - Best Practices

Variable Retention (VR) harvesting practices have become quite frequent in the past few years. This harvest system generates significantly different waste assessment considerations than clearcut or other harvest practices. Due to these differences VR and clearcut blocks must not be included in the same sampling plan (aggregate) they must be isolated into unique sampling plans. VR blocks often have waste levels exceeding those identified under the ocular estimate standards, therefore, plot sampling is required in all cases. Cut to cruise comparisons or similar assessments will not normally be considered appropriate. Waste plans for VR blocks must be reviewed by district staff in advance of field work (Waste Manual Sec 4.2.4). Minimum stratification requirements will require separation of areas with no or very minimal harvested trees from areas with significant amounts of harvesting. Post harvest assessments of VR blocks will be required in most cases to assess the cutting permit objectives and the potential for standing waste. Please review sections 4.7 and 5.3.2.2 of the waste manual for a more detailed explanation of the procedures.

Consultation with your local district staff or the Coast Area Waste Specialist when developing VR waste assessment plans is recommended. Waste assessments on VR blocks can be time consuming and costly, licensees are encouraged to be cognizant of this as operational planning and strategies are developed and prior to CP application.

Assessment of the post harvest stand is required to determine a number of attributes:

- Assessment of pre harvest objective vs actual onsite results.
    - Was the objective achieved?
        - SPH, BA/ha
        - Species comp
- Identification and assessment of Standing tree waste.
- Identification of potential trespass volumes.
- Measurement of post harvest Silviculture stocking levels.

This Best Practices document is intended to outline an approach to assessing partial cuts to determine the attributes identified above. It is important to note, post harvest assessment results can be highly variable and considerable interpretation of the results may be required before a final determination is made. These procedures have been developed to assist in a consistent approach to determination of the attributes across the Coast Forest Area. As in any forest sampling the development of a sound sampling plan is critical to receive accurate and meaningful information. Identification of unique strata will help to reduce the numbers of sample points required (fieldwork) while providing a more reliable answer.

Suggested Post harvest methodology

The Waste Manual Section 5.3.2.2 notes timber volume that is left in excess of the cutting permit Schedule B will be assessed as waste. The manual goes on to discuss methods for determining the volume of standing tree waste including a timber cruise that meets or exceeds the sampling error of the original cruise. The Coast Area Pricing team recognizes these procedures and the need to meet the original cruise standards are not clear nor are they statistically achievable, practical or cost efficient. Once a block has been partially cut the stand attributes become extremely variable making a post harvest cruise that meets the standard of the original cruise almost impossible to achieve at a reasonable cost.

Waste Assessment

- Waste survey plan
  - A sampling plan must be developed for the VR blocks only.
    - VR blocks contain highly variable volumes and types of waste (cut logs or standing tree) therefore, it is not appropriate to sample them within an aggregate comprised of other 'non retention' blocks.
    - Stratify whenever possible, stratification generally develops a better answer with fewer samples. Identification of felled/logged areas vs standing tree areas is required. Where this is not practical the sample plan can be based on a single stratum however, more sample points will be required as a result of the high variability. Recommended sample strata can be identified using the following definitions:
      - Clearcut 0-10% retention
      - Partial Cut 11-90% retention
      - No harvest 91-100% retention
  - Plot requirements
    - Always use 100% CV
    - Consider use of more, smaller plots (see waste manual table 4-2). Smaller plots can be easier to measure in high volume areas.
      - 400m2 plots at 100% CV, 20ha = 20 plots (100m grid)
      - 100m2 plots at 100% CV, 20ha = 36 plots (75m grid)

Standing Tree Assessment

Standing trees are left in blocks as individuals, small clumps, large clumps, patches and occasionally the entire block. Estimation of the standing volume can be very difficult as a result of the form and level of retention. Where some trees have been removed the remaining stand must be cruised. This does not mean an appraisal standard cruise. The emphasis in the post harvest cruise is efficiency and Basal Area (BA) measurement. Stratification is a key foundation to accurately assessing retention levels. The same strata as those identified in the waste method above is recommended. This provides for a comparable estimate within each strata and block. Where ST areas with little or no volume removal can be identified the original cruise can be used and adjusted to account for any cut volume, stems or BA.

Recommended procedure for VR cruises

- Use a square grid, disperse plots evenly over the sample population
- Determine number of plots using plot formula (N=T^+CV^/E^)
    - N=plots required
    - T= T factor (degrees of freedom) usually 2
    - CV = Coefficient of Variation (100% in VR)
    - E = Sampling error objective (15%)
    - At 100% CV = 88 plots
- Stratify
    - Clearcut 0-10% retention
    - Partial Cut 11-90% retention
    - No harvest 91-100% retention
    - Field stratification will likely be required
- Edge plots
    - Edge effect can have a significant influence on stem density as the outer perimeter of a shape represents a significant portion of the shape area. When cruising VR blocks there will typically be a large amount of edge due to the shape of the blocks and strata edges within them. For these reasons addressing edge affect during the cruise is critical.
    - The currently accepted and most statistically accurate method of edge plot measurement is the 'Walkthrough method'.
    - Where stratification will be done in a VR block two types of edge are typically generated.
        i. Block boundary (marked edge)
        ii. Internal strata edges (unmarked edges)
    - Block boundary is usually easy to identify and apply walkthrough procedures. Internal strata edges can be divided again into the types of strata generated
        i. Unlogged areas

ii. Logged and partially logged areas

- Unlogged strata are best described as natural forest and are significantly different than the logged and partially logged areas therefore, sampling bias generated along the edge is significant.
- The basal area within the partially logged areas is typically highly variable, and has been altered by human processes therefore, the sampling bias is far more difficult to identify and measure.
- Given the points above it is recommended to use walkthrough plots within the unlogged areas and not to use them in the logged strata. While there may be a bias associated with this procedure it is considered small enough to be accepted for this purpose.. It is not recommended to use the walkthrough process in the logged strata. Full or half plots should be used in the harvested areas. The bias associated with the walkthrough method in these areas will generally be to significant to provide a reasonable outcome.

Recommended plot mechanics

- 'Nest' Cruise plots onto Waste grid and fill in where needed.
- Locate count plots equidistant between full measure plots.
- Match original cruise number of trees per plot, minimum average 4 trees/plot
- Mark plots with a single ribbon, flag or other identifiable marker
- Minimal tree marking (1 tree/plot?)
- Estimate as much as necessary
- Full measure to count plot ratio 3:1 or higher
    - The objective is to complete as many BA sweeps as possible
- Consider Big BAF Cruise system

The objective of these guidelines is to provide a basis for the development of a sampling system that will provide a reasonably accurate, cost efficient answer. Any sampling plans developed for VR assessment should follow these basic principles:

- Sample plots are needed
- Some randomly selected trees need to be measured to generate VBAR.
- The process should be cost efficient
- One person can do the plots efficiently
- The answer is statistically valid
- The sample points can be found and repeated with reasonable frequency.

Prepared by:
Ron Mecredy RFT, ATE
Coast Area Cruising and Waste Specialist
ron.mecredy@gov.bc.ca
250-286-9301

From:	Mark Tressel
To:	Logue, Carissa FLNR:EX
Subject:	Waste Questions
Date:	Friday, October 17, 2014 3:07:12 PM
Attachments:	BS201_RU18578.pdf BS201_RU16667.pdf

Hi Carissa,
I have just done a review of our recent waste submissions and have a few questions about some of the blocks that have issues:
For RU 18418 block BS121, I see that you have rejected the survey and asked for sample plots to support the ocular estimate. Do you mean you want a full resurvey (ocular)? If so, do you suggest we stick with Stan's stratification or should we leave the dispersed un-stratified?
For RU 18578 block BS201, the comment is that the ocular estimate doesn't match details from the first waste submission for the block (RU16667). I ran the block type summary for RU16667 and it looks to me like all of the m3/ha numbers match perfectly to what is reported in RU18578 for the remaining area. Could you please clarify what you mean?
For RU 17221 block CH745, it seems like you might have crunched some numbers for this. Do you have some numbers worked out already for what you would expect us to declare for surplus retention/ waste from within that retention patch?
For RU17222 block HP4503, would it be an option to go with the district average for helicopter logging for this cutblock?
For RU17635 block 2015, I thought you were going to look into it and get back to us with standards or guidelines on how to survey the partial harvest corridors. Do you have any suggestions on how we should survey it?
Thanks,

Mark Tressel, RFT
Tamihi Logging Co. Ltd.
42255 Arnold Road
Chilliwack, B.C.
V2R 4H8
phone: 604-823-4830 (ext. 109)
cellular: s.22
fax: 604-823-7150
email: mark.tamihilog@shaw.ca

From:	Logue, Carissa FLNR:EX
To:	"Mark Tressel"
Subject:	Waste survey?
Date:	Monday, October 29, 2012 12:49:00 PM

Hi Mark,

Just wondering if there's a plan in place to survey A19202 CP46 block HP4503? Looks like the wood in this block has been down for a year.

Thanks,

Carissa Logue, RFT

Resource Technologist Specialist - Timber Pricing
Ministry of Forests, Lands and Natural Resource Operations
Chilliwack District
E-mail: Carissa.Logue@gov.bc.ca
Tel: (604) 702-5710 Fax: (604) 702-5711
http://www.for.gov.bc.ca/dck/

From:	Logue, Carissa FLNR:EX
To:	"Len Blackstock"
Subject:	Waste surveys - Jan 2015 overdue list
Date:	Wednesday, January 14, 2015 11:02:00 AM
Attachments:	Variable Retention Post Harvest Assessment best practices.docx

Hi Len,

Happy (belated) New Year!

It is that time of year where I'm cleaning up blocks requiring waste surveys. Please find the list of overdue blocks attached below – these need to get submitted as soon as possible. If you could please let me know approximate timelines for submission that would be great! There are also a couple of blocks that are in rejected status that need to be resubmitted as well (timber mark / block - EA2046 HP4503, BH7020 BS121, and FA5064 2015).

Blocks in expired permits

A19202 CP74 – block CH707

W0001 CPMM – block 40

Blocks declared LC or S with no survey

A19202 CP79 CO1058

A19202 CP77 CH745

A19202 CP88 BS235, BS238A

A19202 CP89 CH729

A19202 CP94 CH703, CH704, CH756A, CH756B, CH756D

Dispersed retention blocks

A81096 CP1 – BS114

A19202 CP50 – BS110

A19202 CP49 – BS108

Since the blocks were logged together (albeit under different licences) I am ok with them getting surveyed as an aggregate (but they would come in under two RUs due to the different client number). Ocular surveys cannot be used for these blocks. A combination of cruise (basal area cruise, not ministry appraisal standard) plots and waste plots would be required to assess if the target levels for retention were met and to determine the post-harvest residue amount. Stratification of these blocks may help to reduce the number of plots you will require. I've attached the best practices for waste surveys on dispersed retention for you to have a look at.

These blocks are quite overdue so I'm open to options as to how these get surveyed; however, these blocks must get surveyed and submitted ASAP.

Options

1. Aggregate everything together

   As the blocks are quite large, using a minimum 100% CV (130% would be best) and the NARs reported you're looking at 57-96 waste plots in all 3 waste blocks depending on the CV chosen. Then you would need to do cruise plots as well (not to ministry appraisal standard) in the blocks. You would need to do the calculation of how many plots would be required to get to 15% SE and lay your grid out in the blocks. It may be easiest to "nest" the cruise plots onto the waste grid. You probably only need between 20-30 full measure plots over all the blocks, the rest can be count plots. Full cruise marking is not required, a stake with a ribbon for a plot centre with the plot number and minimal tree numbering is fine. It has to be checkable but efficient for you to do. An average of 4 trees/plot is the goal.

2. Parenting

   If you wanted to parent block BS108 to BS114 that would be fine. You will still need between 56-94 waste plots over all three blocks, but you might gain some efficiencies in not having to cruise BS108. You would have cruise BS114 and BS110 as per #1 above, but you would use the cruise numbers from BS114 for the survey submission for BS108.

3. Other?

   Send me your ideas on how to get this done and we can discuss.

If you want to have a meeting to go over this we can set something up. Once you get your survey plan together for the dispersed retention blocks, please submit it to me so I can have a look before you go out there.

Thank you!

Carissa Logue, RFT

Resource Technologist Specialist - Timber Pricing
Ministry of Forests, Lands and Natural Resource Operations
Chilliwack District
E-mail: Carissa.Logue@gov.bc.ca
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http://www.for.gov.bc.ca/dck/

Waste303 - Submission Agreement

Back

Printer Friendly

☑ I hereby submit this Block for approval. For the survey or ocular estimate data being submitted, I or on behalf of the licensee, agree to the use of the data for waste monetary billing purposes.

Submitted By:

Name:

Role: Licensed Surveyor * **License Number:** 152F

Phone:

Fax:

Email Address:

Check the appropriate box(es) below:

☑ I certify I personally completed the work herein.

☐ The work herein is sponsored by an RPF or RFT as per the requirements of the Waste Procedures Manual.

Sponsoring RPF/RFT:

Designation:

RPF/RFT Name:

RPF/RFT #:

Phone:

Fax:

Email Address:

Survey Map: HP4503.pdf

Notation:

Status History:

Status	Userid	Timestamp	SDN	Comment
OREJ - Office Rejected	IDIR\CLOGUE	2014-08-20 03:38:23 PM		The use of ocular is not appropriate for this block. Please re-survey using another method and resubmit.
SUB - Submitted	BCEID\MTRESSEL	2013-09-30 01:35:56 PM		The waste volume for this cutblock has been made to total the cruise volume for this block (with the scaled volume included).
DFT - Draft	BCEID\MTRESSEL	2013-09-30 12:23:04 PM		

Back

License	Cutting Permit	Cut Block	Timber Mark	End Cat
A19202		HP4503	EA2046	N

Type Strm	Area (Ha)
SHOH	9.20

SP	Waste Class	Kind	Grd M or better	Grd U	Grd W	Grd X	Grd Y	Grd M or better	Grd U	Grd W	Grd X	Grd Y
			Grade Volumes (m3)					(m3) / Ha				
	Unavd		0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
BA	Avoid	Log	225.8	13.8	0.00	0.0	0.0	24.5	1.5	0.00	0.0	0.0
		Waste Class Total	**225.8**	**13.8**	**0.00**	**0.0**	**0.0**	**24.5**	**1.5**	**0.00**	**0.0**	**0.0**
		Species Class Total	**225.8**	**13.8**	**0.00**	**0.0**	**0.0**	**24.5**	**1.5**	**0.00**	**0.0**	**0.0**
CE	Avoid	Log	0.0	29.9	0.00	4.2	0.0	0.0	3.3	0.00	0.5	0.0
		Stump	0.0	2.7	0.00	0.0	0.0	0.0	0.3	0.00	0.0	0.0
		Waste Class Total	**0.0**	**32.6**	**0.00**	**4.2**	**0.0**	**0.0**	**3.5**	**0.00**	**0.5**	**0.0**
		Species Class Total	**0.0**	**32.6**	**0.00**	**4.2**	**0.0**	**0.0**	**3.5**	**0.00**	**0.5**	**0.0**
FI	Avoid	Bucking Waste	4.6	2.6	0.00	0.0	0.0	0.5	0.3	0.00	0.0	0.0
		Log	721.4	144.3	0.00	60.3	0.0	78.4	15.7	0.00	6.6	0.0
		Waste Class Total	**726.0**	**146.9**	**0.00**	**60.3**	**0.0**	**78.9**	**16.0**	**0.00**	**6.6**	**0.0**
		Species Class Total	**726.0**	**146.9**	**0.00**	**60.3**	**0.0**	**78.9**	**16.0**	**0.00**	**6.6**	**0.0**
HE	Avoid	Bucking Waste	26.4	13.7	0.00	0.0	0.0	2.9	1.5	0.00	0.0	0.0
		Log	704.0	188.9	0.00	7.5	0.0	76.5	20.5	0.00	0.8	0.0
		Stump	0.0	0.9	0.00	0.0	0.0	0.0	0.1	0.00	0.0	0.0
		Waste Class Total	**730.4**	**203.5**	**0.00**	**7.5**	**0.0**	**79.4**	**22.1**	**0.00**	**0.8**	**0.0**
		Species Class Total	**730.4**	**203.5**	**0.00**	**7.5**	**0.0**	**79.4**	**22.1**	**0.00**	**0.8**	**0.0**
All Species		Avoid	1,682.2	396.9	0.00	71.9	0.0	182.8	43.1	0.00	7.8	0.0
		Unavd	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Type Stratum Total	**1682.2**	**396.9**	**0.00**	**71.9**	**0.0**	**182.8**	**43.1**	**0.00**	**7.8**	**0.0**

License	Cutting Permit	Cut Block	Timber Mark	End Cat
A19202		HP4503	EA2046	N

Type Strm	Area (Ha)
STRE	1.80

SP	Waste Class	Kind	Grade Volumes (m3) Grd M or better	Grd U	Grd W	Grd X	Grd Y	(m3) / Ha Grd M or better	Grd U	Grd W	Grd X	Grd Y
	Unavd		0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
BA	Avoid	Standing Tree	50.3	17.9	0.00	3.4	0.0	28.0	10.0	0.00	1.9	0.0
		Waste Class Total	**50.3**	**17.9**	**0.00**	**3.4**	**0.0**	**28.0**	**10.0**	**0.00**	**1.9**	**0.0**
		Species Class Total	**50.3**	**17.9**	**0.00**	**3.4**	**0.0**	**28.0**	**10.0**	**0.00**	**1.9**	**0.0**
CE	Avoid	Standing Tree	0.0	11.9	0.00	18.8	0.0	0.0	6.6	0.00	10.4	0.0
		Waste Class Total	**0.0**	**11.9**	**0.00**	**18.8**	**0.0**	**0.0**	**6.6**	**0.00**	**10.4**	**0.0**
		Species Class Total	**0.0**	**11.9**	**0.00**	**18.8**	**0.0**	**0.0**	**6.6**	**0.00**	**10.4**	**0.0**
FI	Avoid	Standing Tree	436.7	175.7	0.00	32.4	6.8	242.6	97.6	0.00	18.0	3.8
		Waste Class Total	**436.7**	**175.7**	**0.00**	**32.4**	**6.8**	**242.6**	**97.6**	**0.00**	**18.0**	**3.8**
		Species Class Total	**436.7**	**175.7**	**0.00**	**32.4**	**6.8**	**242.6**	**97.6**	**0.00**	**18.0**	**3.8**
HE	Avoid	Standing Tree	56.3	11.9	0.00	16.2	0.0	31.3	6.6	0.00	9.0	0.0
		Waste Class Total	**56.3**	**11.9**	**0.00**	**16.2**	**0.0**	**31.3**	**6.6**	**0.00**	**9.0**	**0.0**
		Species Class Total	**56.3**	**11.9**	**0.00**	**16.2**	**0.0**	**31.3**	**6.6**	**0.00**	**9.0**	**0.0**
LO	Avoid	Standing Tree	11.9	0.0	0.00	2.6	0.0	6.6	0.0	0.00	1.4	0.0
		Waste Class Total	**11.9**	**0.0**	**0.00**	**2.6**	**0.0**	**6.6**	**0.0**	**0.00**	**1.4**	**0.0**
		Species Class Total	**11.9**	**0.0**	**0.00**	**2.6**	**0.0**	**6.6**	**0.0**	**0.00**	**1.4**	**0.0**
All Species		Avoid	555.3	217.5	0.00	73.4	6.8	308.5	120.8	0.00	40.8	3.8
		Unavd	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Type Stratum Total	**555.3**	**217.5**	**0.00**	**73.4**	**6.8**	**308.5**	**120.8**	**0.00**	**40.8**	**3.8**

License	Cutting Permit	Cut Block	Timber Mark	End Cat
A19202		HP4503	EA2046	N

Type Strm	Area (Ha)
OHOL	0.02

SP	Waste Class	Kind	Grade Volumes (m3) Grd M or better	Grd U	Grd W	Grd X	Grd Y	(m3) / Ha Grd M or better	Grd U	Grd W	Grd X	Grd Y
	Unavd		0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
BA	Avoid	Bucking Waste	0.2	0.4	0.00	0.6	0.0	12.5	21.5	0.00	29.9	0.0
		Waste Class Total	**0.2**	**0.4**	**0.00**	**0.6**	**0.0**	**12.5**	**21.5**	**0.00**	**29.9**	**0.0**
		Species Class Total	**0.2**	**0.4**	**0.00**	**0.6**	**0.0**	**12.5**	**21.5**	**0.00**	**29.9**	**0.0**
CE	Avoid	Bucking Waste	0.0	0.2	0.00	0.0	0.0	0.0	9.8	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.2**	**0.00**	**0.0**	**0.0**	**0.0**	**9.8**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.2**	**0.00**	**0.0**	**0.0**	**0.0**	**9.8**	**0.00**	**0.0**	**0.0**
FI	Avoid	Bucking Waste	0.5	0.0	0.00	0.0	0.0	24.5	0.0	0.00	0.0	0.0
		Waste Class Total	**0.5**	**0.0**	**0.00**	**0.0**	**0.0**	**24.5**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.5**	**0.0**	**0.00**	**0.0**	**0.0**	**24.5**	**0.0**	**0.00**	**0.0**	**0.0**
HE	Avoid	Bucking Waste	0.5	1.7	0.00	0.9	0.0	25.5	83.5	0.00	43.0	0.0
		Waste Class Total	**0.5**	**1.7**	**0.00**	**0.9**	**0.0**	**25.5**	**83.5**	**0.00**	**43.0**	**0.0**
		Species Class Total	**0.5**	**1.7**	**0.00**	**0.9**	**0.0**	**25.5**	**83.5**	**0.00**	**43.0**	**0.0**
All Species		Avoid	1.2	2.3	0.00	1.5	0.0	62.5	114.8	0.00	72.8	0.0
		Unavd	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Type Stratum Total	**1.2**	**2.3**	**0.00**	**1.5**	**0.0**	**62.5**	**114.8**	**0.00**	**72.8**	**0.0**

License	Cutting Permit	Cut Block	Timber Mark	End Cat
A19202		HP4503	EA2046	N

Type Strm	Area (Ha)
(All Stratum Types)	11.02

SP	Waste Class	Kind	Grade Volumes (m3) Grd M or better	Grd U	Grd W	Grd X	Grd Y	(m3) / Ha Grd M or better	Grd U	Grd W	Grd X	Grd Y
	Unavd		0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
BA	Avoid	Bucking Waste	0.2	0.4	0.00	0.1	0.0	0.0	0.0	0.00	0.6	0.0
		Log	225.8	13.8	0.00	0.0	0.0	20.5	1.3	0.00	0.0	0.0
		Standing Tree	50.3	17.9	0.00	0.3	0.0	4.6	1.6	0.00	3.4	0.0
		Waste Class Total	**276.4**	**32.2**	**0.00**	**0.4**	**0.0**	**25.1**	**2.9**	**0.00**	**4.0**	**0.0**
		Species Class Total	**276.4**	**32.2**	**0.00**	**0.4**	**0.0**	**25.1**	**2.9**	**0.00**	**4.0**	**0.0**
CE	Avoid	Bucking Waste	0.0	0.2	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Log	0.0	29.9	0.00	0.4	0.0	0.0	2.7	0.00	4.2	0.0
		Standing Tree	0.0	11.9	0.00	1.7	0.0	0.0	1.1	0.00	18.8	0.0
		Stump	0.0	2.7	0.00	0.0	0.0	0.0	0.2	0.00	0.0	0.0
		Waste Class Total	**0.0**	**44.8**	**0.00**	**2.1**	**0.0**	**0.0**	**4.1**	**0.00**	**22.9**	**0.0**
		Species Class Total	**0.0**	**44.8**	**0.00**	**2.4**	**0.0**	**0.0**	**4.1**	**0.00**	**22.9**	**0.0**
FI	Avoid	Bucking Waste	5.1	2.6	0.00	0.0	0.0	0.5	0.2	0.00	0.0	0.0
		Log	721.4	144.3	0.00	5.5	0.0	65.5	13.1	0.00	60.3	0.0
		Standing Tree	436.7	175.7	0.00	2.9	6.8	39.6	15.9	0.00	32.4	0.6
		Waste Class Total	**1163.2**	**322.6**	**0.00**	**8.4**	**6.8**	**105.6**	**29.3**	**0.00**	**92.7**	**0.6**
		Species Class Total	**1163.2**	**322.6**	**0.00**	**10.9**	**6.8**	**105.6**	**29.3**	**0.00**	**92.7**	**0.6**
HE	Avoid	Bucking Waste	26.9	15.4	0.00	0.1	0.0	2.4	1.4	0.00	0.9	0.0
		Log	704.0	188.9	0.00	0.7	0.0	63.9	17.1	0.00	7.5	0.0
		Standing Tree	56.3	11.9	0.00	1.5	0.0	5.1	1.1	0.00	16.2	0.0
		Stump	0.0	0.9	0.00	0.0	0.0	0.0	0.1	0.00	0.0	0.0
		Waste Class Total	**787.2**	**217.1**	**0.00**	**2.2**	**0.0**	**71.4**	**19.7**	**0.00**	**24.5**	**0.0**
		Species Class Total	**787.2**	**217.1**	**0.00**	**13.1**	**0.0**	**71.4**	**19.7**	**0.00**	**24.5**	**0.0**
LO	Avoid	Standing Tree	11.9	0.0	0.00	0.2	0.0	1.1	0.0	0.00	2.6	0.0
		Waste Class Total	**11.9**	**0.0**	**0.00**	**0.2**	**0.0**	**1.1**	**0.0**	**0.00**	**2.6**	**0.0**
		Species Class Total	**11.9**	**0.0**	**0.00**	**13.3**	**0.0**	**1.1**	**0.0**	**0.00**	**2.6**	**0.0**

All Species	Avoid	2238.7	616.7	0.00	146.8	6.8	203.2	56.0	0.00	13.3	0.6
	Unavd	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
	Block Total	**2238.7**	**616.7**	**0.00**	**146.8**	**6.8**	**203.2**	**56.0**	**0.00**	**13.3**	**0.6**

All Blocks

Type Strm	Area (Ha)
(All Stratum Types)	11.02

SP	Waste Class	Kind	Grade Volumes (m3) Grd M or better	Grd U	Grd W	Grd X	Grd Y	(m3) / Ha Grd M or better	Grd U	Grd W	Grd X	Grd Y
	Unavd		0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
BA	Avoid	Bucking Waste	0.2	0.4	0.00	0.6	0.0	0.0	0.0	0.00	0.1	0.0
		Log	225.8	13.8	0.00	0.0	0.0	20.5	1.3	0.00	0.0	0.0
		Standing Tree	50.3	17.9	0.00	3.4	0.0	4.6	1.6	0.00	0.3	0.0
		Waste Class Total	**276.4**	**32.2**	**0.00**	**4.0**	**0.0**	**25.1**	**2.9**	**0.00**	**0.4**	**0.0**
		Species Class Total	**276.4**	**32.2**	**0.00**	**4.0**	**0.0**	**25.1**	**2.9**	**0.00**	**0.4**	**0.0**
CE	Avoid	Bucking Waste	0.0	0.2	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Log	0.0	29.9	0.00	4.2	0.0	0.0	2.7	0.00	0.4	0.0
		Standing Tree	0.0	11.9	0.00	18.8	0.0	0.0	1.1	0.00	1.7	0.0
		Stump	0.0	2.7	0.00	0.0	0.0	0.0	0.2	0.00	0.0	0.0
		Waste Class Total	**0.0**	**44.8**	**0.00**	**22.9**	**0.0**	**0.0**	**4.1**	**0.00**	**2.1**	**0.0**
		Species Class Total	**0.0**	**44.8**	**0.00**	**22.9**	**0.0**	**0.0**	**4.1**	**0.00**	**2.1**	**0.0**
FI	Avoid	Bucking Waste	5.1	2.6	0.00	0.0	0.0	0.5	0.2	0.00	0.0	0.0
		Log	721.4	144.3	0.00	60.3	0.0	65.5	13.1	0.00	5.5	0.0
		Standing Tree	436.7	175.7	0.00	32.4	6.8	39.6	15.9	0.00	2.9	0.6
		Waste Class Total	**1163.2**	**322.6**	**0.00**	**92.7**	**6.8**	**105.6**	**29.3**	**0.00**	**8.4**	**0.6**
		Species Class Total	**1163.2**	**322.6**	**0.00**	**92.7**	**6.8**	**105.6**	**29.3**	**0.00**	**8.4**	**0.6**
HE	Avoid	Bucking Waste	26.9	15.4	0.00	0.9	0.0	2.4	1.4	0.00	0.1	0.0
		Log	704.0	188.9	0.00	7.5	0.0	63.9	17.1	0.00	0.7	0.0
		Standing Tree	56.3	11.9	0.00	16.2	0.0	5.1	1.1	0.00	1.5	0.0
		Stump	0.0	0.9	0.00	0.0	0.0	0.0	0.1	0.00	0.0	0.0
		Waste Class Total	**787.2**	**217.1**	**0.00**	**24.5**	**0.0**	**71.4**	**19.7**	**0.00**	**2.2**	**0.0**
		Species Class Total	**787.2**	**217.1**	**0.00**	**24.5**	**0.0**	**71.4**	**19.7**	**0.00**	**2.2**	**0.0**
LO	Avoid	Standing Tree	11.9	0.0	0.00	2.6	0.0	1.1	0.0	0.00	0.2	0.0
		Waste Class Total	**11.9**	**0.0**	**0.00**	**2.6**	**0.0**	**1.1**	**0.0**	**0.00**	**0.2**	**0.0**
		Species Class Total	**11.9**	**0.0**	**0.00**	**2.6**	**0.0**	**1.1**	**0.0**	**0.00**	**0.2**	**0.0**
All Species		Avoid	2238.7	616.7	0.00	146.8	6.8	203.2	56.0	0.00	13.3	0.6
		Unavd	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Reporting Unit Total	**2238.7**	**616.7**	**0.00**	**146.8**	**6.8**	**203.2**	**56.0**	**0.00**	**13.3**	**0.6**

END OF REPORT

BRITISH COLUMBIA

Ministry of Forests and Range

Waste System

FS702 - Summary of Scale

Reporting Unit ID: 17222

Use this space to fill-in the "Summary Document Number" that appears on the HBS screen as soon as you have saved this volume estimate

HBS DOCUMENT NUMBER

WASTE LICENSE	TIMBER MARK	CUT BLOCK	RETURN NUMBER	DATE
152F	EA2046	HP4503	6	2013-05-31

LOG COUNT	W. M. R. F.	PLC DATE	E/C
15	0.9633	2011-07-13	Endemic

COMMENT (OPTIONAL)

[2013-09-30 13:35:56] The waste volume for this cutblock has been made to total the cruise volume for this block (with the scaled volume included).

NOTATION

RATIO		

RU. NO.

17222

Species	Product	Grade	Avoidable Y/N	Pieces	Volume	Rate
FI		I	Y	1	26.443	
BA		J	Y	1	276.425	
FI		J	Y	1	1,136.740	
HE		J	Y	1	787.190	
LO		J	Y	1	11.942	
BA		U	Y	1	32.166	
CE		U	Y	1	44.787	
FI		U	Y	1	322.606	
HE		U	Y	1	217.124	
BA		X	Y	1	4.009	
CE		X	Y	1	22.927	
FI		X	Y	1	92.739	
HE		X	Y	1	24.520	
LO		X	Y	1	2.559	
FI		Y	Y	1	6.824	
				Total: 15.00	Total: 3,009.001	

SURVEYOR'S SIGNATURE

License	Cutting Permit	Cut Block	Timber Mark	Survey Date	Res. Surv	Ret No	B L	St	Plot No	Plot Size	Mes Per	Est Vol	Type Strm
A19202		HP4503	EA2046	2013-05-31	152F	6		0	0		100		OHOL

Pc#	Sp	K	R C	Len (dm)	Top	E C	But	E C	G	B L	Est Per	Deductions Ln	Tp	Bt	D	Cm Cd	Net Volume (m3) Bill	Cut	Other
1	BA	W	A						J								0.249	0.249	0.000
2	BA	W	A						U								0.430	0.430	0.000
3	BA	W	A						X								0.597	0.597	0.000
4	CE	W	A						U								0.196	0.196	0.000
5	FI	W	A						J								0.490	0.490	0.000
6	HE	W	A						J								0.510	0.510	0.000
7	HE	W	A						X								0.859	0.859	0.000
8	HE	W	A						U								1.670	1.670	0.000
Measured Totals																	5.001	5.001	0.000
Plot Totals																	5.001	5.001	0.000

License	Cutting Permit	Cut Block	Timber Mark	Survey Date	Res. Surv	Ret No	B L	St	Plot No	Plot Size	Mes Per	Est Vol	Type Strm
A19202		HP4503	EA2046	2013-05-31	152F	6		0	0		100		SHOH

Pc#	Sp	K	R C	Len (dm)	Top	E C	But	E C	G	B L	Est Per	Deductions Ln	Tp	Bt	D	Cm Cd	Net Volume (m3) Bill	Cut	Other
1	BA	L	A						U								13.823	13.823	0.000
2	BA	L	A						J								225.849	225.849	0.000
3	CE	L	A						X								4.161	4.161	0.000
4	CE	L	A						U								29.947	29.947	0.000
5	CE	S	A						U								2.702	2.702	0.000
6	FI	L	A						J								721.393	721.393	0.000
7	FI	L	A						U								144.337	144.337	0.000
8	FI	L	A						X								60.325	60.325	0.000
9	FI	W	A						U								2.551	2.551	0.000
10	FI	W	A						J								4.564	4.564	0.000
11	HE	L	A						J								703.981	703.981	0.000
12	HE	L	A						U								188.864	188.864	0.000
13	HE	L	A						X								7.454	7.454	0.000
14	HE	S	A						U								0.905	0.905	0.000
15	HE	W	A						U								13.743	13.743	0.000
16	HE	W	A						J								26.401	26.401	0.000
Measured Totals																	2,151.000	2,151.000	0.000
Plot Totals																	2,151.000	2,151.000	0.000

License	Cutting Permit	Cut Block	Timber Mark	Survey Date	Res. Surv	Ret No	B L	St	Plot No	Plot Size	Mes Per	Est Vol	Type Strm
A19202		HP4503	EA2046	2013-05-31	152F	6		0	0		100	853.00	STRE

Pc#	Sp	K	R C	Len (dm)	Top	E C	But	E C	G	B L	Est Per	Deductions Ln	Tp	Bt	D	Cm Cd	Net Volume (m3) Bill	Cut	Other
1	FI	T	A						I		3						26.443	26.443	0.000

2	FI	T	A	J	48	410.293	410.293	0.000
3	FI	T	A	U	21	175.718	175.718	0.000
4	FI	T	A	X	4	32.414	32.414	0.000
5	FI	T	A	Y	1	0.000	6.824	0.000
6	CE	T	A	U	1	11.942	11.942	0.000
7	CE	T	A	X	2	18.766	18.766	0.000
8	HE	T	A	J	7	56.298	56.298	0.000
9	HE	T	A	U	1	11.942	11.942	0.000
10	HE	T	A	X	2	16.207	16.207	0.000
11	BA	T	A	J	6	50.327	50.327	0.000
12	BA	T	A	U	2	17.913	17.913	0.000
13	BA	T	A	X	0	3.412	3.412	0.000
14	LO	T	A	J	1	11.942	11.942	0.000
15	LO	T	A	X	0	2.559	2.559	0.000
Measured Totals						846.176	853.000	0.000
Plot Totals						846.176	853.000	0.000

END OF REPORT

Coast

FIGURES REPRESENT ONLY CUT CONTROL VOLUMES

License	Cut Perm	Cut Block	Timber Mark	Sub Population	Type Strm	Area (Ha)	Total Plots	m3 per Hectare Billing	m3 per Hectare Cut Ctrl	Std Dev	C. V. %	S. E. % (@.95)	Volume m3 Billing	Volume m3 Cut Ctrl
A19202		HP4503	EA2046	ACC	OHOL	0.02	0	250.05	250.05				5.00	5.00
A19202		HP4503	EA2046	DIS	SHOH	9.20	0	233.80	233.80				2,151.00	2,151.00
A19202		HP4503	EA2046	STR	STRE	1.80	0	470.10	473.89				846.18	853.00
		Block Totals			ACCU Plots	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					AVG m3/Hal								0.00	0.00
					DISP Plots	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					AVG m3/Hal								0.00	0.00
					Sampled Plots	0.00	0					0.00	0.00	0.00
					AVG m3/Hal								0.00	0.00
					Standing Tree	1.80	0						846.18	853.00
					AVG m3/Hal								470.10	473.89
					EST + 100% + Ocular	11.02	0						3,002.18	3,009.00
					AVG m3/Hal								272.43	273.05
					Total	11.02	0						3,002.18	3,009.00
					AVG m3/Hal								272.43	273.05

Coast

FIGURES REPRESENT ONLY CUT CONTROL VOLUMES

License	Cut Perm	Cut Block	Timber Mark	Sub Population	Type Strm	Area (Ha)	Total Plots	m3 per Hectare Billing	m3 per Hectare Cut Ctrl	m3 per Hectare Std Dev	C. V. %	S. E. % (@.95)	Volume m3 Billing	Volume m3 Cut Ctrl
Reporting Unit Total				ACCU Plots		0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				AVG m3/Hal									0.00	0.00
				DISP Plots		0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				AVG m3/Hal									0.00	0.00
				Sampled Plots		0.00	0					0.00	0.00	0.00
				AVG m3/Hal									0.00	0.00
				Standing Tree		1.80	0						846.18	853.00
				AVG m3/Hal									470.10	473.89
				EST + 100% + Ocular		11.02	0						3,002.18	3,009.00
				AVG m3/Hal									272.43	273.05
				Total		11.02	0						3,002.18	3,009.00
				AVG m3/Hal									272.43	273.05

END OF REPORT

License	Cutting Permit	Cut Block	Timber Mark	End Cat
A19202		HP4503	EA2046	N

Type Strm	Area (Ha)
SHOH	9.20

SP	Waste Class	Kind	Grd M or better	Grd U	Grd W	Grd X	Grd Y	Grd M or better	Grd U	Grd W	Grd X	Grd Y
			Grade Volumes (m3)					(m3) / Ha				
	Unavd		0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
BA	Avoid	Log	225.8	13.8	0.00	0.0	0.0	24.5	1.5	0.00	0.0	0.0
		Waste Class Total	**225.8**	**13.8**	**0.00**	**0.0**	**0.0**	**24.5**	**1.5**	**0.00**	**0.0**	**0.0**
		Species Class Total	**225.8**	**13.8**	**0.00**	**0.0**	**0.0**	**24.5**	**1.5**	**0.00**	**0.0**	**0.0**
CE	Avoid	Log	0.0	29.9	0.00	4.2	0.0	0.0	3.3	0.00	0.5	0.0
		Stump	0.0	2.7	0.00	0.0	0.0	0.0	0.3	0.00	0.0	0.0
		Waste Class Total	**0.0**	**32.6**	**0.00**	**4.2**	**0.0**	**0.0**	**3.5**	**0.00**	**0.5**	**0.0**
		Species Class Total	**0.0**	**32.6**	**0.00**	**4.2**	**0.0**	**0.0**	**3.5**	**0.00**	**0.5**	**0.0**
FI	Avoid	Bucking Waste	4.6	2.6	0.00	0.0	0.0	0.5	0.3	0.00	0.0	0.0
		Log	721.4	144.3	0.00	60.3	0.0	78.4	15.7	0.00	6.6	0.0
		Waste Class Total	**726.0**	**146.9**	**0.00**	**60.3**	**0.0**	**78.9**	**16.0**	**0.00**	**6.6**	**0.0**
		Species Class Total	**726.0**	**146.9**	**0.00**	**60.3**	**0.0**	**78.9**	**16.0**	**0.00**	**6.6**	**0.0**
HE	Avoid	Bucking Waste	26.4	13.7	0.00	0.0	0.0	2.9	1.5	0.00	0.0	0.0
		Log	704.0	188.9	0.00	7.5	0.0	76.5	20.5	0.00	0.8	0.0
		Stump	0.0	0.9	0.00	0.0	0.0	0.0	0.1	0.00	0.0	0.0
		Waste Class Total	**730.4**	**203.5**	**0.00**	**7.5**	**0.0**	**79.4**	**22.1**	**0.00**	**0.8**	**0.0**
		Species Class Total	**730.4**	**203.5**	**0.00**	**7.5**	**0.0**	**79.4**	**22.1**	**0.00**	**0.8**	**0.0**
All Species		Avoid	1,682.2	396.9	0.00	71.9	0.0	182.8	43.1	0.00	7.8	0.0
		Unavd	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Type Stratum Total	**1682.2**	**396.9**	**0.00**	**71.9**	**0.0**	**182.8**	**43.1**	**0.00**	**7.8**	**0.0**

License	Cutting Permit	Cut Block	Timber Mark	End Cat
A19202		HP4503	EA2046	N

Type Strm	Area (Ha)
STRE	1.80

SP	Waste Class	Kind	Grade Volumes (m3) Grd M or better	Grd U	Grd W	Grd X	Grd Y	(m3) / Ha Grd M or better	Grd U	Grd W	Grd X	Grd Y
	Unavd		0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
BA	Avoid	Standing Tree	50.3	17.9	0.00	3.4	0.0	28.0	10.0	0.00	1.9	0.0
		Waste Class Total	**50.3**	**17.9**	**0.00**	**3.4**	**0.0**	**28.0**	**10.0**	**0.00**	**1.9**	**0.0**
		Species Class Total	**50.3**	**17.9**	**0.00**	**3.4**	**0.0**	**28.0**	**10.0**	**0.00**	**1.9**	**0.0**
CE	Avoid	Standing Tree	0.0	11.9	0.00	18.8	0.0	0.0	6.6	0.00	10.4	0.0
		Waste Class Total	**0.0**	**11.9**	**0.00**	**18.8**	**0.0**	**0.0**	**6.6**	**0.00**	**10.4**	**0.0**
		Species Class Total	**0.0**	**11.9**	**0.00**	**18.8**	**0.0**	**0.0**	**6.6**	**0.00**	**10.4**	**0.0**
FI	Avoid	Standing Tree	436.7	175.7	0.00	32.4	6.8	242.6	97.6	0.00	18.0	3.8
		Waste Class Total	**436.7**	**175.7**	**0.00**	**32.4**	**6.8**	**242.6**	**97.6**	**0.00**	**18.0**	**3.8**
		Species Class Total	**436.7**	**175.7**	**0.00**	**32.4**	**6.8**	**242.6**	**97.6**	**0.00**	**18.0**	**3.8**
HE	Avoid	Standing Tree	56.3	11.9	0.00	16.2	0.0	31.3	6.6	0.00	9.0	0.0
		Waste Class Total	**56.3**	**11.9**	**0.00**	**16.2**	**0.0**	**31.3**	**6.6**	**0.00**	**9.0**	**0.0**
		Species Class Total	**56.3**	**11.9**	**0.00**	**16.2**	**0.0**	**31.3**	**6.6**	**0.00**	**9.0**	**0.0**
LO	Avoid	Standing Tree	11.9	0.0	0.00	2.6	0.0	6.6	0.0	0.00	1.4	0.0
		Waste Class Total	**11.9**	**0.0**	**0.00**	**2.6**	**0.0**	**6.6**	**0.0**	**0.00**	**1.4**	**0.0**
		Species Class Total	**11.9**	**0.0**	**0.00**	**2.6**	**0.0**	**6.6**	**0.0**	**0.00**	**1.4**	**0.0**
All Species		Avoid	555.3	217.5	0.00	73.4	6.8	308.5	120.8	0.00	40.8	3.8
		Unavd	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Type Stratum Total	**555.3**	**217.5**	**0.00**	**73.4**	**6.8**	**308.5**	**120.8**	**0.00**	**40.8**	**3.8**

License	Cutting Permit	Cut Block	Timber Mark	End Cat
A19202		HP4503	EA2046	N

Type Strm	Area (Ha)
OHOL	0.02

SP	Waste Class	Kind	Grade Volumes (m3) Grd M or better	Grd U	Grd W	Grd X	Grd Y	(m3) / Ha Grd M or better	Grd U	Grd W	Grd X	Grd Y
	Unavd		0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
BA	Avoid	Bucking Waste	0.2	0.4	0.00	0.6	0.0	12.5	21.5	0.00	29.9	0.0
		Waste Class Total	**0.2**	**0.4**	**0.00**	**0.6**	**0.0**	**12.5**	**21.5**	**0.00**	**29.9**	**0.0**
		Species Class Total	**0.2**	**0.4**	**0.00**	**0.6**	**0.0**	**12.5**	**21.5**	**0.00**	**29.9**	**0.0**
CE	Avoid	Bucking Waste	0.0	0.2	0.00	0.0	0.0	0.0	9.8	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.2**	**0.00**	**0.0**	**0.0**	**0.0**	**9.8**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.2**	**0.00**	**0.0**	**0.0**	**0.0**	**9.8**	**0.00**	**0.0**	**0.0**
FI	Avoid	Bucking Waste	0.5	0.0	0.00	0.0	0.0	24.5	0.0	0.00	0.0	0.0
		Waste Class Total	**0.5**	**0.0**	**0.00**	**0.0**	**0.0**	**24.5**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.5**	**0.0**	**0.00**	**0.0**	**0.0**	**24.5**	**0.0**	**0.00**	**0.0**	**0.0**
HE	Avoid	Bucking Waste	0.5	1.7	0.00	0.9	0.0	25.5	83.5	0.00	43.0	0.0
		Waste Class Total	**0.5**	**1.7**	**0.00**	**0.9**	**0.0**	**25.5**	**83.5**	**0.00**	**43.0**	**0.0**
		Species Class Total	**0.5**	**1.7**	**0.00**	**0.9**	**0.0**	**25.5**	**83.5**	**0.00**	**43.0**	**0.0**
All Species		Avoid	1.2	2.3	0.00	1.5	0.0	62.5	114.8	0.00	72.8	0.0
		Unavd	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Type Stratum Total	**1.2**	**2.3**	**0.00**	**1.5**	**0.0**	**62.5**	**114.8**	**0.00**	**72.8**	**0.0**

License	Cutting Permit	Cut Block	Timber Mark	End Cat
A19202		HP4503	EA2046	N

Type Strm	Area (Ha)
(All Stratum Types)	11.02

SP	Waste Class	Kind	Grade Volumes (m3) Grd M or better	Grd U	Grd W	Grd X	Grd Y	(m3) / Ha Grd M or better	Grd U	Grd W	Grd X	Grd Y
	Unavd		0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
BA	Avoid	Bucking Waste	0.2	0.4	0.00	0.1	0.0	0.0	0.0	0.00	0.6	0.0
		Log	225.8	13.8	0.00	0.0	0.0	20.5	1.3	0.00	0.0	0.0
		Standing Tree	50.3	17.9	0.00	0.3	0.0	4.6	1.6	0.00	3.4	0.0
		Waste Class Total	**276.4**	**32.2**	**0.00**	**0.4**	**0.0**	**25.1**	**2.9**	**0.00**	**4.0**	**0.0**
		Species Class Total	**276.4**	**32.2**	**0.00**	**0.4**	**0.0**	**25.1**	**2.9**	**0.00**	**4.0**	**0.0**
CE	Avoid	Bucking Waste	0.0	0.2	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Log	0.0	29.9	0.00	0.4	0.0	0.0	2.7	0.00	4.2	0.0
		Standing Tree	0.0	11.9	0.00	1.7	0.0	0.0	1.1	0.00	18.8	0.0
		Stump	0.0	2.7	0.00	0.0	0.0	0.0	0.2	0.00	0.0	0.0
		Waste Class Total	**0.0**	**44.8**	**0.00**	**2.1**	**0.0**	**0.0**	**4.1**	**0.00**	**22.9**	**0.0**
		Species Class Total	**0.0**	**44.8**	**0.00**	**2.4**	**0.0**	**0.0**	**4.1**	**0.00**	**22.9**	**0.0**
FI	Avoid	Bucking Waste	5.1	2.6	0.00	0.0	0.0	0.5	0.2	0.00	0.0	0.0
		Log	721.4	144.3	0.00	5.5	0.0	65.5	13.1	0.00	60.3	0.0
		Standing Tree	436.7	175.7	0.00	2.9	6.8	39.6	15.9	0.00	32.4	0.6
		Waste Class Total	**1163.2**	**322.6**	**0.00**	**8.4**	**6.8**	**105.6**	**29.3**	**0.00**	**92.7**	**0.6**
		Species Class Total	**1163.2**	**322.6**	**0.00**	**10.9**	**6.8**	**105.6**	**29.3**	**0.00**	**92.7**	**0.6**
HE	Avoid	Bucking Waste	26.9	15.4	0.00	0.1	0.0	2.4	1.4	0.00	0.9	0.0
		Log	704.0	188.9	0.00	0.7	0.0	63.9	17.1	0.00	7.5	0.0
		Standing Tree	56.3	11.9	0.00	1.5	0.0	5.1	1.1	0.00	16.2	0.0
		Stump	0.0	0.9	0.00	0.0	0.0	0.0	0.1	0.00	0.0	0.0
		Waste Class Total	**787.2**	**217.1**	**0.00**	**2.2**	**0.0**	**71.4**	**19.7**	**0.00**	**24.5**	**0.0**
		Species Class Total	**787.2**	**217.1**	**0.00**	**13.1**	**0.0**	**71.4**	**19.7**	**0.00**	**24.5**	**0.0**
LO	Avoid	Standing Tree	11.9	0.0	0.00	0.2	0.0	1.1	0.0	0.00	2.6	0.0
		Waste Class Total	**11.9**	**0.0**	**0.00**	**0.2**	**0.0**	**1.1**	**0.0**	**0.00**	**2.6**	**0.0**
		Species Class Total	**11.9**	**0.0**	**0.00**	**13.3**	**0.0**	**1.1**	**0.0**	**0.00**	**2.6**	**0.0**

All Species	Avoid	2238.7	616.7	0.00	146.8	6.8	203.2	56.0	0.00	13.3	0.6
	Unavd	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
	Block Total	**2238.7**	**616.7**	**0.00**	**146.8**	**6.8**	**203.2**	**56.0**	**0.00**	**13.3**	**0.6**

All Blocks

Type Strm	Area (Ha)
(All Stratum Types)	11.02

SP	Waste Class	Kind	Grade Volumes (m3) Grd M or better	Grd U	Grd W	Grd X	Grd Y	(m3) / Ha Grd M or better	Grd U	Grd W	Grd X	Grd Y
	Unavd		0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Waste Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
		Species Class Total	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.0**	**0.0**
BA	Avoid	Bucking Waste	0.2	0.4	0.00	0.6	0.0	0.0	0.0	0.00	0.1	0.0
		Log	225.8	13.8	0.00	0.0	0.0	20.5	1.3	0.00	0.0	0.0
		Standing Tree	50.3	17.9	0.00	3.4	0.0	4.6	1.6	0.00	0.3	0.0
		Waste Class Total	**276.4**	**32.2**	**0.00**	**4.0**	**0.0**	**25.1**	**2.9**	**0.00**	**0.4**	**0.0**
		Species Class Total	**276.4**	**32.2**	**0.00**	**4.0**	**0.0**	**25.1**	**2.9**	**0.00**	**0.4**	**0.0**
CE	Avoid	Bucking Waste	0.0	0.2	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Log	0.0	29.9	0.00	4.2	0.0	0.0	2.7	0.00	0.4	0.0
		Standing Tree	0.0	11.9	0.00	18.8	0.0	0.0	1.1	0.00	1.7	0.0
		Stump	0.0	2.7	0.00	0.0	0.0	0.0	0.2	0.00	0.0	0.0
		Waste Class Total	**0.0**	**44.8**	**0.00**	**22.9**	**0.0**	**0.0**	**4.1**	**0.00**	**2.1**	**0.0**
		Species Class Total	**0.0**	**44.8**	**0.00**	**22.9**	**0.0**	**0.0**	**4.1**	**0.00**	**2.1**	**0.0**
FI	Avoid	Bucking Waste	5.1	2.6	0.00	0.0	0.0	0.5	0.2	0.00	0.0	0.0
		Log	721.4	144.3	0.00	60.3	0.0	65.5	13.1	0.00	5.5	0.0
		Standing Tree	436.7	175.7	0.00	32.4	6.8	39.6	15.9	0.00	2.9	0.6
		Waste Class Total	**1163.2**	**322.6**	**0.00**	**92.7**	**6.8**	**105.6**	**29.3**	**0.00**	**8.4**	**0.6**
		Species Class Total	**1163.2**	**322.6**	**0.00**	**92.7**	**6.8**	**105.6**	**29.3**	**0.00**	**8.4**	**0.6**
HE	Avoid	Bucking Waste	26.9	15.4	0.00	0.9	0.0	2.4	1.4	0.00	0.1	0.0
		Log	704.0	188.9	0.00	7.5	0.0	63.9	17.1	0.00	0.7	0.0
		Standing Tree	56.3	11.9	0.00	16.2	0.0	5.1	1.1	0.00	1.5	0.0
		Stump	0.0	0.9	0.00	0.0	0.0	0.0	0.1	0.00	0.0	0.0
		Waste Class Total	**787.2**	**217.1**	**0.00**	**24.5**	**0.0**	**71.4**	**19.7**	**0.00**	**2.2**	**0.0**
		Species Class Total	**787.2**	**217.1**	**0.00**	**24.5**	**0.0**	**71.4**	**19.7**	**0.00**	**2.2**	**0.0**
LO	Avoid	Standing Tree	11.9	0.0	0.00	2.6	0.0	1.1	0.0	0.00	0.2	0.0
		Waste Class Total	**11.9**	**0.0**	**0.00**	**2.6**	**0.0**	**1.1**	**0.0**	**0.00**	**0.2**	**0.0**
		Species Class Total	**11.9**	**0.0**	**0.00**	**2.6**	**0.0**	**1.1**	**0.0**	**0.00**	**0.2**	**0.0**
All Species		Avoid	2238.7	616.7	0.00	146.8	6.8	203.2	56.0	0.00	13.3	0.6
		Unavd	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0
		Reporting Unit Total	**2238.7**	**616.7**	**0.00**	**146.8**	**6.8**	**203.2**	**56.0**	**0.00**	**13.3**	**0.6**

END OF REPORT

Ministry of Forests and Range

Waste System

FS702 - Summary of Scale

Reporting Unit ID: 17222

Use this space to fill-in the "Summary Document Number" that appears on the HBS screen as soon as you have saved this volume estimate

HBS DOCUMENT NUMBER

WASTE LICENSE	TIMBER MARK	CUT BLOCK	RETURN NUMBER	DATE
152F	EA2046	HP4503	6	2013-05-31

LOG COUNT	W. M. R. F.	PLC DATE	E/C
15	0.9633	2011-07-13	Endemic

COMMENT (OPTIONAL)

[2013-09-30 13:35:56] The waste volume for this cutblock has been made to total the cruise volume for this block (with the scaled volume included).

NOTATION

RATIO		

RU. NO.

17222

Species	Product	Grade	Avoidable Y/N	Pieces	Volume	Rate
FI		I	Y	1	26.443	
BA		J	Y	1	276.425	
FI		J	Y	1	1,136.740	
HE		J	Y	1	787.190	
LO		J	Y	1	11.942	
BA		U	Y	1	32.166	
CE		U	Y	1	44.787	
FI		U	Y	1	322.606	
HE		U	Y	1	217.124	
BA		X	Y	1	4.009	
CE		X	Y	1	22.927	
FI		X	Y	1	92.739	
HE		X	Y	1	24.520	
LO		X	Y	1	2.559	
FI		Y	Y	1	6.824	
				Total: 15.00	Total: 3,009.001	

SURVEYOR'S SIGNATURE

FS 702 HBS 04/03

License	Cutting Permit	Cut Block	Timber Mark	Survey Date	Res. Surv	Ret No	B L	St	Plot No	Plot Size	Mes Per	Est Vol	Type Strm
A19202		HP4503	EA2046	2013-05-31	152F	6		0	0		100		OHOL

Pc#	Sp	K	R C	Len (dm)	Top	E C	But	E C	G	B L	Est Per	Deductions Ln	Tp	Bt	D	Cm Cd	Net Volume (m3) Bill	Cut	Other
1	BA	W	A						J								0.249	0.249	0.000
2	BA	W	A						U								0.430	0.430	0.000
3	BA	W	A						X								0.597	0.597	0.000
4	CE	W	A						U								0.196	0.196	0.000
5	FI	W	A						J								0.490	0.490	0.000
6	HE	W	A						J								0.510	0.510	0.000
7	HE	W	A						X								0.859	0.859	0.000
8	HE	W	A						U								1.670	1.670	0.000
Measured Totals																	5.001	5.001	0.000
Plot Totals																	5.001	5.001	0.000

License	Cutting Permit	Cut Block	Timber Mark	Survey Date	Res. Surv	Ret No	B L	St	Plot No	Plot Size	Mes Per	Est Vol	Type Strm
A19202		HP4503	EA2046	2013-05-31	152F	6		0	0		100		SHOH

Pc#	Sp	K	R C	Len (dm)	Top	E C	But	E C	G	B L	Est Per	Deductions Ln	Tp	Bt	D	Cm Cd	Net Volume (m3) Bill	Cut	Other
1	BA	L	A						U								13.823	13.823	0.000
2	BA	L	A						J								225.849	225.849	0.000
3	CE	L	A						X								4.161	4.161	0.000
4	CE	L	A						U								29.947	29.947	0.000
5	CE	S	A						U								2.702	2.702	0.000
6	FI	L	A						J								721.393	721.393	0.000
7	FI	L	A						U								144.337	144.337	0.000
8	FI	L	A						X								60.325	60.325	0.000
9	FI	W	A						U								2.551	2.551	0.000
10	FI	W	A						J								4.564	4.564	0.000
11	HE	L	A						J								703.981	703.981	0.000
12	HE	L	A						U								188.864	188.864	0.000
13	HE	L	A						X								7.454	7.454	0.000
14	HE	S	A						U								0.905	0.905	0.000
15	HE	W	A						U								13.743	13.743	0.000
16	HE	W	A						J								26.401	26.401	0.000
Measured Totals																	2,151.000	2,151.000	0.000
Plot Totals																	2,151.000	2,151.000	0.000

License	Cutting Permit	Cut Block	Timber Mark	Survey Date	Res. Surv	Ret No	B L	St	Plot No	Plot Size	Mes Per	Est Vol	Type Strm
A19202		HP4503	EA2046	2013-05-31	152F	6		0	0		100	853.00	STRE

Pc#	Sp	K	R C	Len (dm)	Top	E C	But	E C	G	B L	Est Per	Deductions Ln	Tp	Bt	D	Cm Cd	Net Volume (m3) Bill	Cut	Other
1	FI	T	A						I		3						26.443	26.443	0.000

2	FI	T	A	J	48	410.293	410.293	0.000
3	FI	T	A	U	21	175.718	175.718	0.000
4	FI	T	A	X	4	32.414	32.414	0.000
5	FI	T	A	Y	1	0.000	6.824	0.000
6	CE	T	A	U	1	11.942	11.942	0.000
7	CE	T	A	X	2	18.766	18.766	0.000
8	HE	T	A	J	7	56.298	56.298	0.000
9	HE	T	A	U	1	11.942	11.942	0.000
10	HE	T	A	X	2	16.207	16.207	0.000
11	BA	T	A	J	6	50.327	50.327	0.000
12	BA	T	A	U	2	17.913	17.913	0.000
13	BA	T	A	X	0	3.412	3.412	0.000
14	LO	T	A	J	1	11.942	11.942	0.000
15	LO	T	A	X	0	2.559	2.559	0.000
Measured Totals						846.176	853.000	0.000
Plot Totals						846.176	853.000	0.000

END OF REPORT

Coast

FIGURES REPRESENT ONLY CUT CONTROL VOLUMES

License	Cut Perm	Cut Block	Timber Mark	Sub Population	Type Strm	Area (Ha)	Total Plots	m3 per Hectare Billing	m3 per Hectare Cut Ctrl	Std Dev	C. V. %	S. E. % (@.95)	Volume m3 Billing	Volume m3 Cut Ctrl
A19202		HP4503	EA2046	ACC	OHOL	0.02	0	250.05	250.05				5.00	5.00
A19202		HP4503	EA2046	DIS	SHOH	9.20	0	233.80	233.80				2,151.00	2,151.00
A19202		HP4503	EA2046	STR	STRE	1.80	0	470.10	473.89				846.18	853.00
		Block Totals			ACCU Plots	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					AVG m3/Hal								0.00	0.00
					DISP Plots	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					AVG m3/Hal								0.00	0.00
					Sampled Plots	0.00	0					0.00	0.00	0.00
					AVG m3/Hal								0.00	0.00
					Standing Tree	1.80	0						846.18	853.00
					AVG m3/Hal								470.10	473.89
					EST + 100% + Ocular	11.02	0						3,002.18	3,009.00
					AVG m3/Hal								272.43	273.05
					Total	11.02	0						3,002.18	3,009.00
					AVG m3/Hal								272.43	273.05

License	Cut Perm	Cut Block	Timber Mark	Sub Population	Type Strm	Area (Ha)	Total Plots	m3 per Hectare Billing	m3 per Hectare Cut Ctrl	m3 per Hectare Std Dev	C. V. %	S. E. % (@.95)	Volume m3 Billing	Volume m3 Cut Ctrl
Reporting Unit Total				ACCU Plots		0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				AVG m3/Hal									0.00	0.00
				DISP Plots		0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				AVG m3/Hal									0.00	0.00
				Sampled Plots		0.00	0					0.00	0.00	0.00
				AVG m3/Hal									0.00	0.00
				Standing Tree		1.80	0						846.18	853.00
				AVG m3/Hal									470.10	473.89
				EST + 100% + Ocular		11.02	0						3,002.18	3,009.00
				AVG m3/Hal									272.43	273.05
				Total		11.02	0						3,002.18	3,009.00
				AVG m3/Hal									272.43	273.05

END OF REPORT